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Abbreviations and symbols

- **e** Estimated
- **p** Provisional
- **pe** Partly estimated
- **r** Revised
- ... Data available at a later date
- . Data unknown, not to be published or not meaningful
- **0** Less than 0.5 but more than nil
- Ni

Discrepancies in the totals are due to rounding.

New orders pointina

upwards again

Commentaries

Economic conditions

Underlying trends

German economy probably gained somewhat more momentum in Q2 than it had at beginning of vear

Overall economic output probably gained somewhat more momentum in the second guarter of 2018 than it had at the beginning of the year. This is due in part to the fact that the special factors, which were having a dampening effect in the first quarter, are now petering out. The exceptionally virulent wave of flu, which is likely to have had a negative impact on economic activity in the first three months of the year, was no longer a factor in the second quarter. A countermovement is also expected to be seen in government consumption, which showed a marked decline in the first quarter for the first time in several years. Industrial activity gained traction again on the back of the recovery in export trade. Even though it is unlikely that the high growth rates seen last year will be achieved, the manufacturing sector could be gaining greater prominence again as a key driver of economic activity. Owing to the ongoing excellent labour market situation and the strong wage growth, private consumption probably remained a cornerstone of economic growth. Finally, activity in the flourishing construction sector probably expanded significantly, despite the existing capacity constraints.

Industry

Strona rise in industrial output

German industrial output in May 2018 grew strongly by a seasonally adjusted 23/4% on the month. The average for April and May was thus slightly higher than in the first quarter of 2018 (+1/4%). Manufacturers of pharmaceutical products, in particular, reported considerable growth in output. In line with this, consumer goods output expanded most strongly overall (+1½%). By contrast, manufacturers of capital goods were only able to increase their production volume by a marginal extent (+1/4%). The strong increase in motor vehicle production, in particular, was the decisive factor behind the positive overall result, while German mechanical engineering firms had to cope with sharp production cutbacks. Intermediate goods output remained well below the level of the first quarter (-1/2%).

After declining for four consecutive months after the turn of the year, industrial orders rose sharply again in May 2018 by a seasonally adjusted 21/2% compared with the figure for April, which had undergone a marked upward revision. However, the average inflow of new orders in April and May was still clearly below the level of the previous guarter (-1%). This was due to the decline in orders from Germany (-13/4%) and, in particular, from the euro area (-51/4%). Demand for industrial products from non-euro area countries grew strongly, however (+23/4%). Excluding the rather irregular influx of new large orders, however, the overall order intake contracted to a much lesser extent on the whole (-1/4%), and the gap between the inflow of orders from the euro area and non-euro area countries is narrowing for the most part. With regard to the individual sectors, only manufacturers of capital goods were affected by the weaker demand (-31/4%). By contrast, producers of intermediate and consumer goods received significantly more new orders (+2% and +11/4%, respectively). The order situation in German industry has probably remained very favourable on the whole. This is also indicated by the backlog of orders, which in May 2018 significantly exceeded the level of the first quarter.

Industrial sales rose strongly in May 2018 on the month by a seasonally adjusted 1%, following the path set by industrial output, albeit to a lesser extent. The average for April and May was thus perceptibly higher than the level recorded in the first quarter (+1/2%). With regard to the regional distribution of sales, a strong

Strong growth in industrial sales and exports in

Economic conditions in Germany*

Seasonally adjusted

Orders received (volume)						
	Industry; 20	Main con-				
		of which		struction;		
Period	Total	Domestic	Foreign	2010=100		
2017 Q3 Q4	108.1 111.9	105.9 107.3	109.8 115.4	127.7 140.7		
2018 Q1	109.5	105.0	112.9	138.4		
Mar	108.6	105.6	110.9	127.7		
Apr	106.9	101.0	111.3	131.0		
May	109.7	105.3	113.1			
	Output; 201					
	Industry					
		of which				
		Inter- mediate	Capital	Con-		
	Total	goods	goods	struction		
2017 Q3 Q4	105.7 106.7	105.9 107.3	106.0 107.0	109.2 109.3		
2018 Q1	106.8	106.4	107.1	109.4		
Mar	107.3	106.2	108.3	109.2		
Apr	105.6	104.4	106.8	110.4		
May	108.4	107.5	107.8	113.8		
	Foreign trad	e; € billion		Memo item		
				Current		
				account balance		
	Exports	Imports	Balance	in € billion		
2017 Q3	320.57	258.54	62.03	67.51		
Q4	329.98	265.67	64.31	68.20		
2018 Q1 Mar	327.88 109.47	265.56 87.87	62.32 21.60	71.96 22.93		
Apr	109.47	90.15	19.01	21.45		
May	111.08	90.77	20.31	19.45		
	Labour mark	et				
			Un-	Un-		
	Employ- ment	Vacan- cies1	employ- ment	employ-		
	Number in t		mem	ment rate in %		
2017 Q4	44 477	769	2 466	5.5		
2017 Q4 2018 Q1	44 672	784	2 396	5.4		
Q2		793	2 356	5.2		
Apr	44 747	788	2 369	5.3		
May June	44 784	793 797	2 357 2 342	5.2 5.2		
	Prices					
		Producer		Harmon-		
	luo u o ut	prices of	Con- struction	ised con-		
	Import prices	industrial products	prices ²	sumer prices		
	2010 = 100 2015 =					
2017 Q4	102.2	105.7	118.4	102.7		
2018 Q1	102.2	106.3	120.4	103.1		
Q2	103.6	107.2	121.7	103.7		
Apr May	102.6 104.3	106.7 107.3		103.2 103.9		
June		107.5		104.1		

^{*} For explanatory notes, see Statistical Section, XI, and Statistical Supplement, Seasonally adjusted business statistics. 1 Excluding government-assisted forms of employment and seasonal jobs. 2 Not seasonally adjusted.

increase was seen in countries outside the euro area in particular, owing mainly to the buoyant demand for motor vehicles in these countries. By contrast, sales of German industrial enterprises in the euro area went up only slightly, whereas domestic turnover even posted a decline. Broken down by sector, sales of intermediate and capital goods rose significantly. Producers of consumer goods, on the other hand, saw a considerable drop in sales. In line with the sharp rise in foreign industrial sales, nominal exports also increased considerably in May by a seasonally adjusted 134% on the month. The average for April and May was also significantly higher than the level recorded in the first quarter of 2018 (+3/4%). In priceadjusted terms, growth was, however, significantly lower at 1/4%. Seasonally adjusted nominal imports increased at a more moderate pace in May compared with the previous month (+3/4%). Taking the average of April and May, however, they were up significantly on the level of the first quarter (+21/4%). The sharp rise in energy prices was nonetheless the decisive factor behind the growth. After adjustment for price effects, the increase was therefore lower (+1%).

Construction

Construction output continued on its upward trajectory in May 2018, rising steeply by a seasonally adjusted 3% on the month. On an average of April and May, it was also up significantly on the level of the first quarter (+21/2%). This increase was due to very strong growth in the main construction sector (+7%), while construction activity in the finishing trades fell short of the prior-quarter level (-3/4%). The construction boom in Germany is therefore continuing. The order intake in the main construction sector in April - figures are available up to then - fell sharply by 51/4% on the level of the first quarter, which was particularly marked by a number of large orders. That said, the equipment utilisation of construction firms as well as their range of orders were – according to the Construction boom continuing

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Ifo Institute – only slightly down on their peak levels and the share of companies reporting production hold-ups due to staffing shortages once again reached a new record level.

employment component of the IAB labour market barometer sank once again and is now only slightly in positive territory. This suggests that unemployment could decline to a lesser extent in the next three months.

Labour market

Further marked rise in employment; outlook positive

Employment continued to grow substantially in May 2018. The particularly high growth rates seen in the months around the turn of the year were no longer achieved, however. There were 37,000 more persons in work in seasonally adjusted terms than in the previous month. Over the last twelve months, total employment has risen by 593,000 persons, or 1.3%. As in the past, the continued expansion in total employment was due primarily to the strong increase of 770,000 persons in jobs subject to social security contributions between April 2017 and April 2018. The number of self-employed persons showed a further fall, while the number of persons working exclusively in low-paid parttime jobs stabilised. The leading indicators of labour demand, such as the BA-X job index of the Federal Employment Agency (BA) and the Ifo employment barometer, remain at a high level. According to the indicators, however, firms might have been somewhat more reluctant to hire new staff than in recent months. For example, the labour market barometer of the Institute for Employment Research (IAB) for the coming months is indicating that the high demand for labour will stabilise.

Further decline in unemployment Seasonally adjusted unemployment continued to fall slightly in June month on month. There were 2.34 million persons registered as unemployed with the Federal Employment Agency, 15,000 fewer than in May. The unemployment rate held firm at 5.2%. On the whole, there were 197,000 fewer persons registered as unemployed than in the same month last year. Total underemployment showed a somewhat stronger decrease during this same period, which was due to a simultaneous decline in the number of persons taking part in labour market policy measures. The un-

Prices

In June 2018, crude oil prices almost maintained the high level they had previously reached despite production expansions. They were only 2% lower than in the previous month, but exceeded the previous year's level by almost two-thirds. Crude oil prices were still fluctuating at around the US\$75 mark in the first half of July, before falling to US\$72 at the end of the reporting period. Crude oil futures for deliveries six months ahead were being traded without any notable discount, while deliveries 12 months ahead were being traded at a discount of US\$1½.

Crude oil prices

still fairly high

Import prices rose sharply in May in seasonally adjusted terms, which was not due solely to the energy component. Even excluding energy, the depreciation of the euro was making itself clearly felt. Producer prices, for which data are already available for June, showed a similar pattern, albeit in a weaker form. The annual growth rate increased recently both in the case of import and producer prices to around 3%.

Marked rise in import prices excluding energy

Consumer prices (HICP) rose in June by a seasonally adjusted 0.2% on the month. Energy prices continued to rise moderately, probably as a result of the widening of margins at refineries. Food prices also went up slightly. In the case of industrial goods excluding energy, the price increase was somewhat stronger again for the first time in several months. Prices for services remained unchanged despite price reductions in travel services. This was due in part to a moderate increase in rents. Annual headline HICP inflation fell from +2.2% to +2.1% overall (CPI likewise from +2.2% to +2.1%), and excluding energy and food from +1.5% to +1.1%. HICP as a whole is expected

Moderate rise in consumer prices in June

to continue to grow by 2% in the coming months.

Public finances¹

Local government finances

Slightly higher deficit at start of year amid strong tax receipts ...

In the first guarter of this year, the local government core budgets and off-budget entities posted a deficit of €5½ billion. This represents a fall of €½ billion on the start of last year. Revenue rose considerably by 4% (€2 billion). Of this, tax revenue increased sharply by 51/2% (€1 billion), which was primarily attributable to the 8% boost in local business tax after deducting shares accruing to other government levels. By contrast, transfers from state government rose at a more subdued pace overall (+2½%, or €½ billion).

... and increased fixed asset formation At 4½% (€2½ billion), the rise in spending was slightly more pronounced than the increase in revenue. Spending on personnel went up by the same rate (by €1/2 billion). Although the effect of the collective wage agreement's second adjustment stage, which came into force in February 2017, had more or less dissipated, the agreed upgrades to a higher pay grade and the switchover to a new pay scheme appear to still be making themselves felt. Moreover, there is likely to have been a further marked increase in staffing levels. Growth in other operating expenditure remained moderate at 2½% (€½ billion). Spending on social benefits stagnated: while spending on social assistance, in particular, went up, this was offset by the fact that expenditure on benefits for asylum seekers fell sharply again and spending on accommodation costs for recipients of unemployment benefit II decreased. Following subdued developments overall last year, fixed asset formation surged by 16% (just under €1 billion) at the start of the year.

Personnel expenditure is set to continue rising over 2018 as a whole. The reason for this is the collective wage agreement of April 2018, under which pay rates were initially raised by an average of 3.2% from March onwards. In addition, it is possible that other operating expenditure and social benefits will rise more sharply again later in the year. In view of the surpluses generated in recent years, the extensive funding for investment provided by central government and the much lamented shortcomings of the local transport and education infrastructure, fixed asset formation is expected to be given a continued boost.2 Further dynamic developments are also expected on the revenue side. According to the May tax estimate, local government tax revenue (including amounts attributable to city states) is expected to increase significantly by 5%. Transfers from state government will probably also rise markedly. The latter development is supported by growth in tax revenue at the state government level as well as by higher funds from central government to cover accommodation costs for recipients of unemployment benefit II. Overall, local government budgets could therefore run a high cash surplus, as in the previous year. The mediumterm outlook also remains extremely positive in this regard.

The usual seasonal deficit at the start of the Debt rose only year³ was covered to a large extent by the reserves, which many local authorities had topped up with cash surpluses from the previous year. According to the preliminary debt statistics, liabilities increased by only €½ billion (to just over €142½ billion) as against year-end

amid significant revenue growth

Very positive outlook for vear

as a whole and

in medium term

slightly in Q1

- 1 The short commentaries on public finances present recent outturns that were not yet available when the regular quarterly reports on public finances (published in the February, May, August and November editions of the Monthly Report) went to press. For detailed data on budgetary developments and public debt, see the statistical section of this report.
- 2 The altogether high surplus notwithstanding, some municipalities will probably still be subject to restrictions on increasing investment due to budgetary rules. For example, local government finances in North Rhine-Westphalia are particularly strained and characterised by high cash advances. While there was a clear cash surplus (€3 billion) throughout the federal state last year, capital depletion was identified in many municipalities (in the case of doubleentry booking), which limits scope for investment.
- 3 In the first quarter, local authorities initially receive only minimal funding from their shares in income tax, which is offset in the final quarter.

2017. While credit market debt fell by €1½ billion (to €93½ billion), cash advances rebounded significantly by almost €2 billion (to €45½ billion). Cash advances are actually only intended to bridge liquidity shortfalls over the course of the year. The persistently high level of cash advances suggests that some local government budgets are still strained. These cases are concentrated in a small number of federal states.

Statutory health insurance scheme

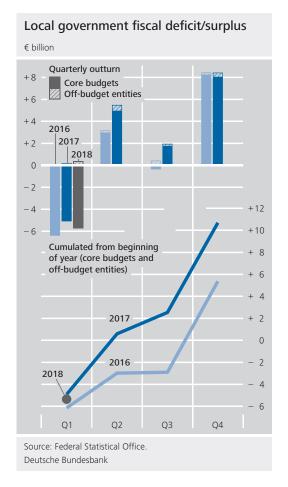
Result largely unchanged in \cap 1

In the first quarter of 2018, the statutory health insurance (SHI) scheme⁵ recorded its usual seasonal deficit. At €2 billion, this was broadly on a par with deficit levels seen in the previous two years. The health fund recorded a slight year-on-year improvement in the deficit, which amounted to €2½ billion, while the surplus recorded by the health insurance institutions dipped marginally to just under €½ billion.

Health insurance institutions' surplus down somewhat in face of slightly lower supplementary contribution rates

The health insurance institutions' revenue, which mainly consists of transfers from the health fund, grew by just under 3½%. At the same time, supplementary contribution rates were slightly lower.⁶ Expenditure grew at a marginally higher rate. Growth in spending on hospital treatment, a particularly large expenditure item, was comparatively moderate (+2%), much as it was for outpatient treatment (+2½%), which had risen very sharply in the previous year. By contrast, spending on pharmaceuticals, remedies and therapeutic appliances, and sickness benefit increased at an above-average rate.

Slight improvement in health fund due to absence of special transfer to health insurance institutions The health fund's revenue rose by just over 3½%. Despite the slight decline in the average supplementary contribution rate, growth in receipts from contributions was slightly stronger at 4%. This was primarily due to what were, overall, substantial increases in higher *per capita* earnings subject to compulsory contributions and employment, which resulted in a rise of 4½% in employees' contributions. Growth in

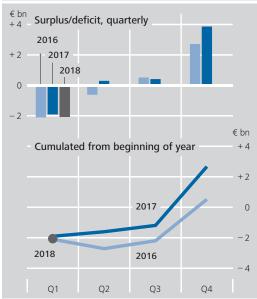


pension contributions was less pronounced as the pension increase in mid-2017 was lower and the number of pension recipients is currently only edging upwards. Other revenue more or less stagnated on account of the central government grant remaining constant at its new standard level. The fund's expenditure, which largely comprises predetermined pay-

- 4 Caution should be exercised when considering changes in sub-categories. In the preliminary debt statistics for the final quarter of 2017, it would appear that, for a large number of municipalities, the allocation of liabilities to these categories had been revised. The borrower's note loans taken out to safeguard liquidity were assigned to regular budgetary loans (as bonds for comparable purposes previously were). This triggers a purely methodology-based decline in outstanding cash advances compared with the non-revised figures for previous quarters. The 2017 annual statistics, which will be published in August, should enable proper classification by funding type. See Landtag Nordrhein-Westfalen, Drucksache 17/2537 of 7 May 2018.
- 5 Health insurance institutions and health fund (consolidated).
- **6** The average supplementary contribution rate decreased slightly by 0.03 percentage point. Taken by itself, this reduced the growth rate of contribution receipts by 0.2 percentage point.

Finances of the statutory health insurance scheme*





Source: Federal Ministry of Health. * Health fund and health insurance institutions (consolidated). Preliminary quarterly figures (KV45). The final annual figures differ from the total of the reported preliminary quarterly figures, as the latter are not revised subsequently.

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ments to the health insurance institutions, increased at a slightly slower pace than revenue.

Based on the assumptions provided by the group of SHI estimators in autumn 2017, the health fund was expected to run a slight deficit for the year as a whole. This is the result of reserve-financed transfers to the innovation and structural funds (around €½ billion). However, income subject to contributions could develop more favourably and expenditure⁷ could rise more moderately than expected at that time. In addition, the average supplementary contribution rate is somewhat higher than the

rate deemed necessary by the Federal Ministry

of Health last autumn to cover relevant expenditure. All in all, this raises the prospect of a significant surplus for the health insurance institutions and the SHI scheme as a whole this year, too.

Under draft legislation, next year will see parity funding extended to supplementary contributions and contributions reduced for selfemployed persons. This parity, according to which enterprises will pay half of supplementary contributions in future, will have no direct impact on the SHI scheme's finances. By contrast, the relief for self-employed persons will lead to revenue shortfalls of almost €1 billion. Moreover, additional funds were earmarked in the coalition agreement, not least for additional nursing staff.8 Looking ahead, demographic developments will rein in revenue and put pressure on healthcare expenditure. It would therefore appear pertinent to achieve further efficiency gains in order to limit contribution burdens.

Future burdens stemming from new measures

Public long-term care insurance scheme

The core area⁹ of the public long-term care insurance scheme recorded a deficit of €1 billion in the first quarter of 2018. The further deterioration by €½ billion compared with the result at the start of the previous year is ultimately due to the fact that, at that time, the effects of the benefit expansions introduced under the second Act to Strengthen Long-term Care (*Pflegestärkungsgesetz II*) on expenditure had not yet fully unfolded.

Further marked deterioration in O1

7 The Federal Ministry of Health's slightly lower estimate is taken as a basis here.

8 A draft bill prepared by ministry officials for an act to boost nursing staff levels envisages increased spending by the health insurance institutions, which is already expected to amount to around €1½ billion in 2020. In addition, the health fund is to take €½ billion per year from 2019 to 2022 from its reserves and increase its deficit by paying this into the hospital structures fund.

9 The developments outlined here and below exclude the long-term care provident fund. This fund is currently generating surpluses as planned to accumulate assets.

Renewed considerable surplus a possibility for year as a whole Continued strong expenditure growth outstrips substantial rise in revenue Total revenue rose by just over 4½%. As in the case of the SHI scheme, this was driven by strong growth in employees' contributions. However, climbing by 11½% following the entry into force of the second Act to Strengthen Long-term Care, the increase in expenditure was once again considerably higher. With the exception of fully inpatient care, this affected all bigger benefit areas. An increase of 8% was recorded for the benefits in kind that are larger expenditure items. In the case of cash benefits, spending rose by as much as 21%. Both care allowance payments and pension contribution payments for those providing care for a relative went up significantly.

Deficit expansion for year as a whole, too; new burdens and contribution rate increase on horizon

A further deficit increase is on the cards for the year as a whole as well, although expenditure growth is set to slow down considerably in subsequent quarters (deficit in 2017: €2½ billion). In the absence of further benefit increases, the deficit would fall slightly next year. However, the draft bill prepared by ministry officials for an act to boost nursing staff levels as part of the coalition deal envisages additional spending of just under €½ billion per year. 10 All things considered, the distributable reserves, which amounted to €7 billion at the end of 2017, could therefore fall to their statutory lower limit of just over €1½ billion at present by as early as next year. Against this backdrop, the possibility of significantly increasing the contribution rate is currently being floated, with additional receipts first being used to generate a surplus again and top up the reserves. However, given the stronger rise in spending expected in the longer term, these improvements are likely to be only short-lived.

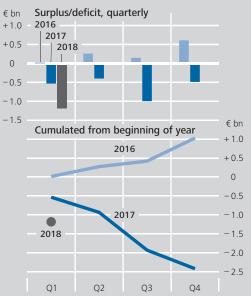
Securities markets

Bond market

High net sales in the German bond market At €102.9 billion, gross issuance in the German bond market in May 2018 was lower than the previous month's figure (€128.4 billion). After deducting the lower redemptions and taking

Finances of the public long-term care insurance scheme*





Source: Federal Ministry of Health. * Preliminary quarterly figures (PV45). The final annual figures differ from the total of the reported preliminary quarterly figures, as the latter are not revised subsequently. 1 Including the transfers to the long-term care provident fund.

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account of changes in issuers' holdings of their own debt securities, net issuance of domestic debt securities came to €20.3 billion. The outstanding volume of foreign debt securities in Germany rose by €0.5 billion during the reporting month, which meant that the outstanding volume of debt instruments in the German market increased by €20.8 billion overall.

During the reporting month, the public sector issued debt securities worth €11.0 billion net (following net redemptions of €19.3 billion in

Rise in public sector capital market debt

10 The lion's share of the additional expenditure would be borne by the SHI scheme.

Sales and purchases of debt securities

€ billion

	2017	2018	
Item	May	April	May
Sales			
Domestic debt securities ¹ of which	28.5	- 12.5	20.3
Bank debt securities Public debt securities	10.8 16.6	- 0.5 - 19.3	6.7 11.0
Foreign debt securities ²	10.8	3.1	0.5
Purchases			
Residents Credit institutions ³ Deutsche	14.7 3.9	8.8 - 2.6	1.3 - 1.6
Bundesbank Other sectors ⁴ of which Domestic debt	12.8 - 2.0	5.2 6.2	7.7 -4.8
securities	- 9.5	1.2	-4.2
Non-residents ²	24.5	- 18.2	19.5
Total sales/purchases	39.2	- 9.4	20.8

1 Net sales at market values plus/minus changes in issuers' holdings of their own debt securities. 2 Transaction values. 3 Book values, statistically adjusted. 4 Residual. Deutsche Bundesbank

April). Central government was the main issuer of new securities (€13.0 billion), chiefly in the form of two-year Federal Treasury notes (Schätze) to the tune of €5.7 billion and fiveyear Federal notes (Bobls) in the amount of €3.0 billion. It also issued ten and 30-year Bunds totalling €2.5 billion and €1.8 billion respectively. State governments redeemed their own bonds to the net value of €2.0 billion.

Net issuance of bank debt securities

Domestic credit institutions raised their capital market debt by €6.7 billion net in May, following net redemptions of €0.5 billion in April. Increases were seen primarily in the outstanding volume of mortgage Pfandbriefe (€3.0 billion) and debt securities issued by specialised credit institutions (€5.7 billion), which include, for example, public promotional banks. This contrasted with net redemptions of public Pfandbriefe (€1.8 billion) and other bank debt securities that can be structured flexibly (€0.1 billion).

Domestic enterprises issued bonds with a net Rise in entervalue of €2.6 billion in the reporting month, compared with €7.2 billion one month earlier. On balance, these issuances were attributable to both other financial institutions and nonfinancial corporations.

prises' capital market debt

Foreign investors were the main buyers of bonds in May (€19.5 billion). The Deutsche Bundesbank also purchased debt securities for €7.7 billion net, predominantly in the context of the asset purchase programmes. By contrast, domestic non-banks and domestic credit institutions sold bonds in the amount of €4.8 billion and €1.6 billion net respectively.

Purchases of debt securities

Equity market

In the month under review, domestic enterprises issued new shares totalling €1.2 billion net in the German equity market. The volume of foreign equities in the German market fell by €3.1 billion over the same period. On balance, shares were purchased chiefly by domestic credit institutions (€1.2 billion), but also by foreign investors (€0.6 billion). This contrasted with net sales by domestic non-banks totalling €3.7 billion.

Net issuance in the German equity market

Mutual funds

In May, German mutual funds recorded muted net inflows of €1.9 billion (April: €8.4 billion). On balance, retail funds were the chief beneficiaries (€1.2 billion). Mixed securities funds were the main issuers of new shares (€1.7 billion), but funds of funds and equity funds also placed new shares on the market (€0.9 billion and €0.4 billion, respectively). Bond funds, on the other hand, recorded outflows of funds amounting to €0.9 billion. The outstanding volume of foreign mutual fund units sold in Germany rose by €3.2 billion in the reporting month. Domestic non-banks were the main buyers of mutual fund shares in May (€4.2 billion). These were primarily foreign securities on

German mutual funds record muted inflows

balance. Resident credit institutions acquired shares for €1.2 billion net, while foreign investors sold mutual fund shares for €0.3 billion net.

Balance of payments

Current account surplus down

Germany's current account recorded a surplus of €12.6 billion in May 2018, putting it €10.9 billion below the level of the previous month. This was chiefly attributable to a lower invisible current transactions balance, which comprises services as well as primary and secondary income, compounded by a narrower surplus in the goods account.

Narrower surplus in goods account

In the month under review, the surplus in the goods account was down on the month, falling by \leq 1.2 billion to \leq 21.5 billion. In this context, exports of goods fell more sharply than imports.

Turnaround in invisible current transactions

Germany recorded a deficit of €8.9 billion in invisible current transactions in May, compared with a surplus of €0.8 billion one month earlier. This deterioration was mainly caused by a decline in the primary income balance which outweighed the upturn in the secondary income balance. Moreover, the deficit in the services account widened. The primary income account saw net expenditure in the amount of €7.4 billion, compared with net income of €4.0 billion in April. The turnaround was largely attributable to higher dividend payments on portfolio investments by non-residents. The increase in general government revenue from current taxes on income and wealth that primarily took place as a result of this was instrumental in improving the secondary income balance, generating a virtually balanced result of €0.1 billion, compared with a deficit of €2.6 billion in the previous month. In the services account, the deficit widened by €1.0 billion to €1.6 billion. Small increases in a number of items had the effect of pushing up revenue, but the increase in expenditure, largely on the back of higher spending on travel, was weightier.

Major items of the balance of payments

€ billion

	2017r	2018	
Item	May	April	Mayp
I Current account 1 Goods ¹ Exports (fob) Imports (fob) Memo item	+ 15.2 + 23.0 109.6 86.6	+ 23.5 + 22.7 110.0 87.4	+ 12.6 + 21.5 108.3 86.8
Foreign trade ² Exports (fob) Imports (cif)	+ 21.8 110.5 88.7	+ 20.1 110.3 90.2	+ 19.7 109.1 89.4
2 Services ³ Receipts Expenditure	- 1.7 22.3 23.9	- 0.6 21.7 22.3	- 1.6 22.7 24.3
3 Primary income Receipts Expenditure 4 Secondary income	- 5.3 16.9 22.2 - 0.9	+ 4.0 17.0 13.0 - 2.6	- 7.4 16.4 23.8 + 0.1
II Capital account	+ 0.1	+ 0.4	- 0.5
III Financial account	1 0.1	1 0.1	0.5
(increase: +) 1 Direct investment Domestic investment	+ 11.8 + 6.8	+ 30.2 + 13.5	- 3.0 - 2.1
abroad Foreign investment	+ 9.6	+ 8.0	+ 1.6
in the reporting country Portfolio investment Domestic investment	+ 2.8 - 14.4	- 5.4 + 19.2	+ 3.7 - 19.5
in foreign securities Shares ⁴ Investment fund	+ 12.0 + 0.7	+ 0.8 - 2.4	+ 0.2 - 3.5
shares ⁵ Long-term debt	+ 0.5	+ 0.1	+ 3.2
securities ⁶ Short-term debt securities ⁷	+ 12.2	+ 3.8	+ 1.0
Foreign investment in domestic securities	+ 26.5	- 18.4	+ 19.7
Shares 4 Investment fund share. Long-term debt	+ 1.3	+ 2.9	+ 0.6
securities ⁶ Short-term debt	+ 16.1	- 18.4	+ 11.5
securities ⁷ 3 Financial derivatives ⁸	+ 8.5 + 1.4	+ 0.2 + 1.6	+ 8.0 + 4.1
4 Other investment ⁹ Monetary financial institutions ¹⁰	+ 18.1	- 3.4 - 29.4	+ 14.5
<i>of which</i> Short-term	- 8.1	- 28.4	- 10.3
Enterprises and households ¹¹ General government Bundesbank	+ 7.3 + 3.6 + 13.6	+ 5.3 - 3.1 + 23.8	- 8.0 - 1.0 + 30.1
5 Reserve assets	0.0	- 0.7	+ 0.1
IV Errors and omissions ¹²	- 3.5	+ 6.4	- 15.1
IV Errors and omissions ¹²	- 3.5	+ 6.4	- 15.

1 Excluding freight and insurance costs of foreign trade, 2 Special trade according to the official foreign trade statistics (source: Federal Statistical Office). 3 Including freight and insurance costs of foreign trade. 4 Including participation certificates. 5 Including reinvestment of earnings. 6 Long-term: original maturity of more than one year or unlimited. 7 Short-term: original maturity of up to one year. 8 Balance of transactions arising from options and financial futures contracts as well as employee stock options. 9 Includes in particular loans and trade credits as well as currency and deposits. 10 Excluding the Bundesbank. 11 Includes the following sectors: financial corporations (excluding monetary financial institutions) as well as non-financial corporations, households and non-profit institutions serving households. 12 Statistical errors and omissions, resulting from the difference between the balance on the financial account and the balances on the current account and the capital account.

Deutsche Bundesbank

Inflows in portfolio investment

Against the backdrop of a spike in market uncertainty and a slight waning in the momentum of the global economy, German crossborder portfolio investment posted net capital imports of €19.5 billion in May, compared with net capital exports totalling €19.2 billion in April. This was mainly due to net purchases of German securities in the amount of €19.7 billion by foreign investors, who acquired both German government bonds (€6.7 billion) and private sector bonds (€4.8 billion), with a particular appetite for bank bonds, whilst also buying large amounts of money market paper (€8 billion). Alongside purchasing shares to the tune of €0.6 billion net, they disposed of mutual fund shares worth €0.3 billion on balance. Domestic investors acquired modest amounts of foreign securities (€0.2 billion), purchasing mutual fund shares (€3.2 billion) and debt securities (€0.5 billion), while parting with shares (€3.5 billion).

Direct investment sees net capital imports In May, direct investment likewise generated net capital imports, in this instance amounting to €2.1 billion, compared with net capital exports of €13.5 billion in April. Direct investment funds flowing into Germany gave rise to capital imports totalling €3.7 billion, with foreign companies augmenting their equity stakes in Germany only marginally (€0.2 billion), but capital inflows through intra-group lending (€3.5 billion) – here executed solely in the shape of financial credits – had a greater impact on de-

velopments. Domestic enterprises supplied their group units abroad with a net €1.6 billion worth of funds, doing so by bolstering their equity capital (€4.1 billion). By contrast, the redemption of trade credits within the scope of credit transactions with affiliated companies led to a shifting of funds to Germany (€2.5 billion).

Other statistically recorded investment, which comprises loans and trade credits (where these do not constitute direct investment), bank deposits and other investments, registered net capital exports of €14.5 billion in May, as opposed to net capital imports of €3.4 billion one month previously. This result arose primarily from outflows in the banking system (€23.5 billion), driven by the increase in the Bundesbank's net claims (€30.1 billion). On the one hand, there was a significant rise in its TARGET2 claims (€53.8 billion), but on the other hand, there were higher deposits on the part of foreign counterparties at the Bundesbank (€23.6 billion). Conversely, credit institutions recorded net capital imports (€6.6 billion), chiefly as a result of higher short-term liabilities. Non-banks also experienced net capital inflows (€9.0 billion), thanks to the activities of enterprises and households (€8.0 billion) as well as to those of general government (€1.0 billion).

The Bundesbank's reserve assets rose slightly – at transaction values – by €0.1 billion in May.

other investment

Outflows in

Reserve assets

The market for Federal securities: holder structure and the main drivers of yield movements

German government bonds play a key role in the euro area's spot and futures markets, and have become a major benchmark for the price of other financial instruments in the euro area. Their good availability and high liquidity have typically made German Federal securities an important and attractive investment instrument for national and international investors alike. This attractiveness is reflected in a broad international and sectoral holder structure. From a central bank perspective, the market for government bonds has taken on far greater significance over the past few years. The ECB Governing Council's decision to purchase public sector securities (public sector purchase programme, or PSPP) turned this segment of the bond market into a key area of engagement for monetary policy. Under the PSPP, the Bundesbank purchased just under one-quarter of the total outstanding volume of Federal securities up to the end of 2017, sharply altering the holder structure. Holders from non-euro area countries were the main sellers of Federal securities to the Bundesbank. Within the euro area, the securities were sold chiefly by monetary financial institutions (MFIs), ie investors with access to the deposit facility. Against this backdrop, possible effects of the purchase programme manifested in sectoral portfolio adjustments and the exchange rate. Generally speaking, the purchases reduced the freely tradable volume of Federal securities in free float; this spread to availability (scarcity premium) and market liquidity (liquidity premium). Over the longer term, the yield on ten-year Federal bonds (Bunds) was shaped by scarcity premiums, expectations regarding key interest rates, and international determinants.

market to the central bank The market for Federal securities is an import-

struments in the euro area.1

The importance of the bond

ant segment of the international bond market.

Being highly liquid, German government secur-

ities play a key role in the euro area's spot and

futures markets, and have become a major

benchmark for the price of other financial in-

Market for Federal securities: an important segment of the international bond market

Bond market a key transmission channel for monetary policy From a central bank perspective, the bond markets and hence the market for Federal securities have grown in importance over the past few years.2 The Eurosystem's initial response to the financial and sovereign debt crisis was to start lowering the key interest rates and introducing a host of non-standard measures in 2007. As of June 2014 – with key interest rates near 0% - the ECB then adopted unconventional measures intended to further increase the degree of monetary policy accommodation. Alongside targeted longer-term refinancing operations, these included a series of asset purchase programmes, which, when the expanded asset purchase programme (APP) was adopted, ultimately also envisaged the purchase of public sector securities under a dedicated programme (PSPP) from March 2015 (see the box on pages 17 to 19). This made the bond market an important area of engagement for monetary policy. As monetary policy transmission also flows through the bond market, central banks consider it important to understand which transmission channels are activated by the measures. Changes in the holder structure can provide indications of this. In addition, unwanted side effects such as the relative scarcity of Federal securities or a possible deterioration in market liquidity, as influenced by the purchases, have to be monitored.

Market developments and holder structure of Federal securities

Federal securities are an important tool for Federal Government borrowing. Their share in the total volume outstanding in the German bond market has risen by 10 percentage points to just over 35% since the launch of monetary union in 1999.3 Issuance follows a fixed calendar set by Federal Republic of Germany - Finance Agency (see the box on pages 23 to 25). It peaked in 2009 and 2010, during the financial and economic crisis. As central government's budgetary situation subsequently improved, net issuance dropped significantly and has hovered around the zero mark since 2014. Since then, at just under €200 billion each year, the Finance Agency has refinanced roughly one-sixth of outstanding central government debt using securities with a maturity of between six months and 30 years.

Outstanding volume and issuance of Federal securities

Federal securities typically have a very broad investor base. Demand for German government bonds comes from all sectors inside and outside Germany. The launch of monetary union fundamentally altered the market environment for bonds issued by the domestic public sector. Within the euro area, the currency-specific advantage of issuing securities in Deutsche Mark fell away, meaning that German public sector issuance has since competed directly with public sector debtors of the partner countries in the euro area. However, thanks to their high

Federal securities highly relevant to international investors

- 1 Futures on two-year, five-year and ten-year Federal securities are the most traded contracts on Eurex Frankfurt AG. In 2017, a total of 85% of bond futures traded had Federal securities as the underlying. Italian (8%) and French (7%) securities follow far behind. For information on the importance of the futures market for the benchmark status of German Federal securities, see also J W Ejsing and J Sihvonen (2009), Liquidity premia in German government bonds, ECB Working Paper No 1081.
- **2** See Deutsche Bundesbank, The macroeconomic impact of quantitative easing in the euro area, Monthly Report, June 2016, pp 29-53.
- **3** Aside from the rise in outstanding Federal securities, another factor was the decrease in outstanding public Pfandbriefe and other bank debt securities. The outstanding volume of bonds issued by specialised credit institutions and enterprises without a banking licence increased.

Public sector purchase programme

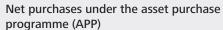
On 22 January 2015, the Governing Council of the European Central Bank (ECB) announced the launch of an expanded asset purchase programme (APP), which broadened the existing covered bond purchase programme (CBPP3; launched in October 2014) and the asset-backed securities purchase programme (ABSPP; launched in November 2014) to include securities issued by the public sector (public sector purchase programme – PSPP; launched in March 2015).1 The corporate sector purchase programme (CSPP) was added to the APP in June 2016. The objective of the purchase programmes is to provide significant monetary policy accommodation, thus contributing to an inflation rate of below, but close to, 2% over the medium term. Initially, monthly net asset purchases (purchases minus reinvestments of maturing assets) under the APP amounted to €60 billion; the volume was then raised to €80 billion and has since been scaled back to €30 billion. The PSPP is by far the biggest component of the APP.

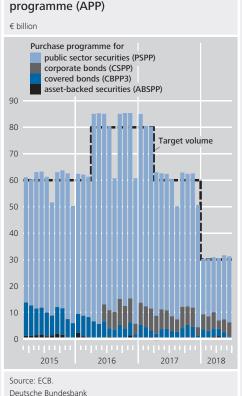
Under the PSPP, the European Central Bank and the Eurosystem national central banks (NCBs) acquire securities issued by central governments, agencies as well as international organisations and multilateral development banks (supranational bonds) located in the euro area.² Moreover, since January 2016, regional and local government bonds, such as the debt of the German federal states, have been eligible for purchase under the PSPP.

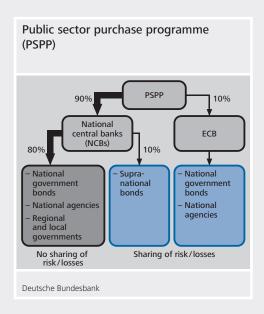
There are detailed rules and restrictions designed to keep risk to a minimum for purchases under the PSPP. All securities must be eligible as collateral for monetary policy operations, have minimum ratings from external credit rating agencies accepted in the Eurosystem,³ be denominated in euro and have a remaining maturity of between 1 and 31 years.⁴

1 Press release on the decision taken by the Governing Council of the ECB on 22 January 2015: http://www.ecb.europa.eu/press/pr/date/2015/html/pr150122_1.en.html

- 2 For a complete list of all eligible issuers, see https://www.ecb.europa.eu/mopo/implement/omt/html/pspp.en.html
- 3 Bonds that do not meet the minimum credit rating requirements can continue to be used as collateral for monetary policy operations where the issuing member state has successfully completed a (regular) review under a financial assistance programme. However, on 22 June 2016, the Governing Council of the ECB decided that Greek bonds which would otherwise fall under this regulation cannot be purchased under the PSPP until Greece can demonstrate reinforced debt sustainability and fulfil additional risk management considerations established by the ECB.
- 4 The parameters of the programme are regularly reviewed and updated if necessary. For instance, on 8 December 2016, the Governing Council of the ECB resolved on cutting the initial minimum remaining maturity from two years to one year. In addition, purchases of securities with a yield to maturity below the deposit facility rate were deemed permissible to the extent necessary.







As a result of the prohibition of monetary financing under Article 123 of the Treaty on the Functioning of the European Union, central banks may purchase government bonds on the secondary market only. In addition, there is a blackout period prior to and following an announced auction on the primary market before the bonds are available for purchase on the secondary market. There is an issue share limit of 33% per bond,⁵ subject to verification on a case-by-case basis that holding such an amount would not lead to Eurosystem central banks having a blocking minority in the event of an orderly restructuring of the issuer.

One of the peculiarities of the PSPP is that the distribution of profits and possible losses arising from the securities purchased is governed by rules differing from those for the other programmes included in the APP. Under the PSPP, only 20% of the securities purchased are subject to joint liability at the Eurosystem level. This is broken down into purchases by the ECB (10%) and purchases of supranational bonds by the NCBs (10%). The remaining securities purchased by the NCBs are not subject to a regime of risk sharing.⁶

The implementation of the PSPP is based on a decentralised specialisation approach.

Each NCB purchases public sector bonds in line with its share of the ECB's capital key⁷ (the Bundesbank's current share is 25.6%), with each NCB only buying bonds from its own jurisdiction. The ECB purchases bonds from all jurisdictions.

The allocation of the purchase volumes in the PSPP is subject to a clear set of rules. There is no discretionary scope for tactical deviations to support individual government bond markets. The monthly targets are based on the shares of the individual member states' national bonds in the total volume at the end of the programme.

However, the monthly purchase volumes of national bonds by individual member states may, at times, differ from their capital key. A number of factors at play here are of a purely temporary nature. For instance, the Eurosystem and thus the Bundesbank, too, take account of the fact that market liquidity can vary seasonally and that bondspecific offer volumes may deviate from original expectations. In addition, all repayments on holdings that have already been accumulated are reinvested for a period of three months after the due date. This can also lead to temporary deviations. A conscious decision was taken at the beginning of the PSPP to keep purchasing behaviour

⁵ At the start of the programme, the Governing Council of the ECB initially set the limit at 25% and subsequently raised it to 33% with its decision of 5 November 2015

⁶ At the beginning of the programme, the share of supranational bonds stood at 12% but was then cut to 10% in April 2016. The share of securities subject to joint liability remained unchanged at 20%.

⁷ The ECB's capital comes from the NCBs of all member states of the European Union (EU); each NCB's share is calculated from its share in the total population and gross domestic product of the EU. As not all EU member states have adopted the euro and only the central banks of the euro area member states have to pay the full amount of their capital share, the euro area member states thus have a higher share of the ECB's actual paid-up capital than stipulated by the capital key. It is this higher modified capital share per NCB that is relevant for purchases under the PSPP. For more information, see https://www.ecb.europa.eu/ecb/orga/capital/html/index.en.html

flexible in this way in order to ensure the smooth implementation of the programme.

government agencies as well as of regional and local governments.

However, other factors cause more persistent deviations from the capital key. For example, if there is an insufficient quantity of existing national bonds or if these bonds do not have the minimum rating required under the PSPP, the NCB concerned makes substitute purchases of debt instruments issued by supranational institutions in order to fulfil its share of purchases based on the capital key. As a result, these NCBs have a lower share of purchases of national bonds. To ensure that the stipulated total volume of national bonds remains constant at 90% and the total monthly volume does not fluctuate, the relative share of national bonds of NCBs that do not need to conduct substitute purchases of supranational bonds automatically increases. For this reason, the share of German bonds in the entire PSPP holdings of national bonds is currently somewhat higher than Germany's corresponding share in the capital key. However, this does not mean a departure from the principle that purchases generally follow the capital key. Gearing purchases to the capital key reflects the overarching guiding principle to preserve a single monetary policy.

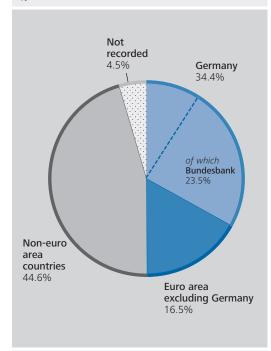
The majority of the Bundesbank's PSPP purchases on the secondary market are conducted in bilateral operations whereby the specific approach depends on the market in question. As a rule, before conducting a purchase transaction, the Bundesbank approaches a large number of counterparties via the common trading platforms and asks them to submit price quotations. In the case of low-volume bonds from issuers that are not regularly active on the capital market (for instance, smaller federal states or agencies), the purchase volume is strongly influenced by the supply of the specific asset. In addition, the Bundesbank has recently started using (twice monthly) auctions to purchase less liquid securities of

As at 30 June 2018, the Eurosystem's holdings of assets purchased under the PSPP had a book value of €2,068 billion, of which around €492 billion were German bonds. This means, on average, around €590 million net of German bonds were acquired each day. Holdings have continued to be built up in line with the requirements defined above. However, in the summer months and at the end of the year, especially, the targets – as mentioned above – are reduced and reallocated to other months in order to take account of the lower market liquidity.

The Bundesbank makes a certain amount of assets that it has purchased under the PSPP available for securities lending. It thereby helps ensure that the market for German Federal bonds (Bunds) remains highly liquid. For this purpose, it uses three demanddriven lending facilities. Clearstream Banking Luxembourg (CBL) offers Automated Securities Lending (ASL) to ensure that borrowers' trades which would otherwise fail are settled on the settlement date, and its strategic lending facility ASLplus enables longer-term operations (maximum term of 35 days) to be concluded at a fixed minimum rate. In addition, the Bundesbank also lends its PSPP holdings via bilateral procedures. The individual design of such procedures may vary within a specified risk framework but the maximum term amounts to seven days. At present, the Bundesbank provides 460 different securities from the PSPP for lending, of which 63 are Federal securities. In June 2018, on average across all Eurosystem lending facilities, around €65 billion worth of bonds were lent to market participants.

Holder structure of Federal securities as at end-2017*

%



Sources: ESCB (SHSS database) and Bundesbank calculations. * Holder structure of all outstanding Federal securities excluding FMSW bonds and central government off-budget entities.

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credit quality and liquidity plus their benchmark status, German government securities remained a highly relevant and attractive investment proposition for international, non-European investors especially. Federal securities also continue to play a key role for the reserve assets of foreign central banks.

Regional and sectoral breakdown of the holder structure of Federal securities The holder structure of Federal securities can be examined in detail on the basis of the European Securities Holdings Statistics by Sector (SHSS), which are collected in the Eurosystem. The SHSS capture both the proprietary and customer securities holdings of all reporting account-keeping institutions in the euro area. Data from these statistics were available up to the end of 2017 as this article went to press. The SHSS do not include the holdings of the ECB or the euro area national central banks. Combined with the Bundesbank's holdings, just over 95% of the total outstanding volume of Federal securities was captured at the end of 2017 and assigned to the sector and country of

the respective holder according to the reporting template shown in the table on page 21. It seems most investors from non-euro area countries also trade German government securities via their own branches or authorised financial institutions within the euro area and accordingly hold the securities in safe custody at resident reporting custodians. One likely reason for this is that better market liquidity is ensured during trading hours at the main trading venue. The SHSS thus facilitate a detailed analysis of the holder structure for German government securities.

The Eurosystem's purchases under the PSPP led to sharp shifts in the established holder structure of Federal securities. The Bundesbank built up holdings of just under 24% of outstanding German government securities up until the end of 2017.⁴ On the basis of changes in holdings as shown in the SHSS, it is possible to deduce which investor groups were net sellers in the market. This, in turn, illustrates the transmission channels through which the purchase programme acts.

Change in the holder structure under the PSPP sheds light on transmission channel

At the end of 2014 – that is, prior to the launch of the PSPP - investors from non-euro area countries held just under 60% of the outstanding Federal securities. 5 This high share, reflecting the importance of German government securities to international investors, was split fairly evenly between the private and public sectors. The public sector notably includes foreign central banks, which use Federal securities as a strategic investment (eg as reserve assets). Just over one-fifth was held by non-German euro area residents, almost all in the private sector. By comparison, German investors held a relatively small share of just under 12%. A little more than half of this (7%) was attributable to the private sector.

Non-residents the main holders

⁴ At the end of 2017, the Bundesbank held €263 billion worth of Federal securities. By the end of June 2018, these holdings had increased to €271 billion.

⁵ The unrecorded share can probably also be attributed to non-euro area investors for the most part.

Holder structure of Federal securities*

0/6

Holder	2014	2015	2016	2017
Geographical breakdown				
Germany (incl Bundesbank)	11.6	17.9	26.4	34.4
Euro area excl Germany	20.6	20.0	18.4	16.5
Non-euro area countries	59.8	55.0	48.2	44.6
Not recorded	8.0	7.1	6.9	4.5
Sectoral breakdown				
Private sector				
Germany	7.0	6.8	6.1	5.4
Financial investors	6.0	6.0	5.4	4.9
of which MFIs (banks)	1.6	1.6	1.2	0.8
Investment funds	3.2	3.3	3.1	2.9
Insurance corporations and pension		4.3	4.4	4.2
funds	1.1	1.2	1.1	1.2
Non-financial investors	1.0 19.9	0.8 19.5	0.7 18.0	0.5 16.1
Euro area excl Germany Financial investors	19.9	19.5	18.0	15.9
of which MFIs (banks)	3.4	2.2	2.0	-0.1
Investment funds	7.9	8.7	7.4	7.1
Insurance corporations and pension	7.5	0.7	7.4	7.1
funds	7.8	7.9	8.0	8.3
Non-financial investors	0.4	0.3	0.3	0.2
Non-euro area countries	31.7	32.2	27.9	25.4
Public sector (central bank and general government)				
Total (all countries)	33.5	34.3	41.1	48.6
Bundesbank (PSPP)	0.0	6.4	15.4	23.5
Free float estimate (from to)1	49.7-58.6	49.5-58.6	42.9-52.0	37.4-47.0

Sources: ESCB (SHSS database) and Bundesbank calculations. * Holdings at year-end based on nominal values. Securities issued by FMS Wertpapiermanagement and central government's off-budget entities are not included. The figures for "euro area excl Germany" do not contain any own holdings of the ECB or the euro area national central banks. 1 The upper limit of the free float range is calculated as the sum of the total private sector; the lower limit reduces this figure by excluding insurance corporations and pension funds.

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Main PSPP sellers from non-euro area countries

Non-euro area investors significantly scaled back their holdings of Federal securities between the end of 2014 and the end of 2017, reducing them by a total of just over 15 percentage points.⁶ Public sector holders from these countries had a major part to play in this decline. This can presumably mainly be put down to sales by China's public sector. This notion is backed up at the very least by the fact that Chinese foreign exchange reserves – the precise composition of which is unknown shrank by US\$700 billion between the end of 2014 and the end of 2017.7 It is unlikely that these sales were triggered by the start of the PSPP alone. Instead, they coincided with spells of mounting capital outflows from China, which also put the renminbi under pressure.8 The remaining (private) investors from noneuro area countries reduced their share of Federal securities by just over 6 percentage points, with investors from the United States and United Kingdom dominating this group.9

The private sector in the euro area excluding Germany has likewise pared back its percentage share of Federal securities since the end of

Euro area: mainly banks reduced their holdings

- **6** The aggregate of the PSPP purchases also shows the dominant role of sellers from non-euro area countries. See R S J Koijen, F Koulischer, B Nguyen and M Yogo (2016, revised in 2018), Inspecting the mechanism of quantitative easing in the euro area, Banque de France Working Paper No. 601
- 7 See People's Bank of China (PBC), The time-series data of China's foreign exchange reserves, 7 June 2018: http://www.safe.gov.cn/wps/portal/english/Data. See C J Neely, Chinese foreign exchange reserves, policy choices and the U.S. economy, Federal Reserve Bank of St Louis Working Paper 2017-001A, p 1: "Although the exact composition of the Chinese foreign exchange reserves is confidential, observers estimate that about 67 percent of the value consists of dollar-denominated assets, mostly U.S. Treasury securities but also many U.S. agency and corporate bonds."
- **8** See Deutsche Bundesbank, The Eurosystem's bond purchases and the exchange rate of the euro, Monthly Report, January 2017, pp 13-39.
- **9** The financial centres of London and New York are also behind the high figures in the United Kingdom and United States; many institutional investors are resident there and hold domestic securities on behalf of clients. In these cases, the SHSS data shed no light on the end investor. The SHSS data for non-euro area countries cannot be broken down in more detail, for example by financial and non-financial investors.

2014, with the decrease coming to just under 4 percentage points. Within the sector, financial investors constituted the largest investor group. Investment funds, in particular, initially increased their shares in Federal securities in the run-up to, and at the start of, the asset purchase programme before subsequently becoming net sellers from 2016 onwards and reducing their shares to just over 7% at last count. However, insurance corporations' and pension funds' share in Federal securities rose to a little more than 8%, leading them to supplant investment funds as the largest investor group among financial investors. By contrast, banks from the euro area excluding Germany considerably reduced their comparatively small share, even establishing a small net short position at the end of 2017, on aggregate. A similar picture emerges for German private investors. As is the case with the other euro area investors, insurance corporations' and pension funds' share remained broadly constant, whereas domestic banks scaled back their holdings over this period.

Declining share of freely tradable securities

Signs that portfolio adjustment is homogeneous in regional terms, ... Viewed as a global aggregate, the private sector's behaviour was fairly homogeneous. Private financial and non-financial investors, regardless of their home region, have made similar cutbacks to their percentage shares in Federal securities since the launch in the PSPP (between the end of 2014 and end of 2017). Relative to the holdings at the end of 2014, the decline in the private sector ranged from 19% (euro area excluding Germany) through 20% (non-euro area countries) to 23% (Germany).

... but mixed within the financial private sector When broken down by sector, the figures for the private sector show that private financial investors behaved very heterogeneously. There were significant portfolio shifts. Euro area banks, for example, reduced their percentage shares in Federal securities almost completely (-86%), whereas investment funds made only slight changes (-10%). Insurance corporations and pension funds, on the other hand, even upped their shares (+7%). These varied reactions can also be explained by institutional fac-

tors. Unlike the other two sectors, euro area banks have access to the deposit facility, which can be a cheaper and safe alternative to investing in Federal securities.¹¹ In this sense, the PSPP also had an impact within the euro area via sectoral portfolio adjustments. Based on (absolute) transaction volumes, the portfolio effect was by far the greatest amongst investors from non-euro area countries. 12 In keeping with this, the share of absolute sales was low in the euro area private sector, on account of the small share of just under 27% of the outstanding volume prior to the launch of the PSPP. For the non-euro area countries, the reallocations could also have spread to affect exchange rate developments, in cases where bond sellers shifted into other currencies. 13

The share of freely tradable bonds (free float) declined under the PSPP. If free float is defined as the stock available to the private sector except for pension funds and insurance corporations, the volume of securities in free float came to less than 40% at the end of 2017.¹⁴ This represents a decrease of just over 10 percentage points during the purchase programme, which may affect general availability and market liquidity.

10 For the euro area as a whole, see R S J Koijen, F Koulischer, B Nguyen and M Yogo (2017), Euro-area quantitative easing and portfolio rebalancing, American Economic Review, Vol 107, No 5, pp 621-627.

11 The present analysis does not allow for a statement on how the individual sectors have adjusted their portfolios overall (portfolio rebalancing) under the influence of the PSPP.

12 There is no sectoral breakdown for investors from noneuro area countries, which means that this statement only holds under the assumption that private financial investors from non-euro area countries and from the euro area reacted in similar ways.

13 See Deutsche Bundesbank (2017), op cit.

14 Free float normally refers to the stock that is freely available for trading. It is not possible to gain a clear and complete picture of the investment motives of the sectors. For one thing, the banking sector is also required by regulation to hold highly liquid bonds. For another, sovereign funds tend to be more yield-focused, but are not distinguished from reserve assets in the SHSS.

Federal Government issuance activities and procedures

In Germany, the Federal Ministry of Finance is responsible for the Federal Government's debt management. The primary close-tomarket and operational debt management tasks include managing Federal Government borrowing and liquidity, which has been entrusted to Federal Republic of Germany – Finance Agency (referred to here as the "Finance Agency") in Frankfurt am Main since June 2001. The Federal Government, represented by the Federal Ministry of Finance, is the sole shareholder of the Finance Agency. The main task of the Finance Agency is to provide timely, cost-effective and low-risk debt management services for the Federal Government, in particular through the initial issuance of securities in the primary market. At the same time, the Finance Agency's work is intended to cement and further extend the status of Germany's Federal Government as a benchmark issuer in the euro area.

Bundesbank the government's fiscal agent

As the government's fiscal agent, the Bundesbank performs technical debt management duties for the Federal Government, conducting auctions of Federal securities, carrying out market management operations on the German stock exchanges, and settling the Federal Government's securities transactions. These tasks are completed on behalf of and for the account of the Federal Government in coordination with the Finance Agency. It should be noted that, as the Federal Government's fiscal agent, the Bundesbank provides banking services which are strictly separate from its monetary and foreign exchange policy tasks. The Bundesbank does not grant loans when auctioning Federal securities in the primary

market, nor does it take Federal securities into its own portfolio. On account of its fiscal agent role, the same applies to secondary market transactions.

Auctions: the main primary market procedure

The primary market is where securities are issued for the first time. It is where the Federal Government covers more than 90% of its annual borrowing requirements by issuing Federal securities in auctions. The Federal Government only commissions a bank syndicate as an alternative channel for issuing Federal securities for a handful of special Federal securities, such as the two US dollar-denominated bonds which were issued in 2005 and 2009 and have since been repaid.

Issuance planning

Market participants and investors value an issuer's continuity, transparency and reliability, and this ultimately pays off for the borrower in the form of favourable borrowing conditions. Auctions of Federal securities planned by the Federal Government over the course of a calendar year are therefore announced by the Finance Agency at the end of the previous year in an annual issuance calendar. The annual preview contains precise details on the Federal securities which will be put up for auction, such as the auction date, the planned issuance volume and the exact maturity date. Additionally, a quarterly issuance calendar is published, which may contain deviations from the annual preview. As an issuer, the Federal Government strives to conduct its announced issuance activities according to its published schedules. However, these plans may need to be adjusted if borrowing requirements, the Federal Government's liquidity position, or the capital market situation as a whole change significantly during the course of the year.

Maturity profile

The Federal Government's commitment to continuity and reliability means offering Federal securities with an overall balanced maturity profile. First, it weighs the generally lower borrowing costs of revolving short-term debt against the certainty that borrowing in the long-term maturity segment can offer. Second, it takes into account the fact that offering a broad spectrum of maturities on a regular basis allows investors to invest in accordance with their respective duration goals. That way, the Federal Government can be sure of attracting a broad investor base. This is why Federal securities are put up for auction across all maturities: six-month Treasury discount paper ("Bubills") in the money market segment, and in the capital market segment, two-year Federal Treasury notes ("Schätze"), five-year Federal notes ("Bobls") and mainstay ten-year and thirty-year Federal bonds ("Bunds"). Inflation-linked Federal securities ("Bund-Linker") are also auctioned on a regular basis.

Bund Issues Auction Group

Members of the Bund Issues Auction Group, who have been approved by the Finance Agency, are eligible to bid in Federal Government auctions. The group currently comprises 36 credit institutions and investment firms which are established in a member state of the European Union. To remain in the auction group, members must subscribe to at least 0.05% of the total issuance allotted, weighted by maturity, in auctions in any one calendar year. Member in-

stitutions which fail to subscribe to this minimum share are required to leave the group at the end of the year. Apart from the minimum share requirement, members have no additional obligations. For instance, they are not expected to provide any market making services in the secondary market — ie quote bid and ask prices for Federal securities or provide mandatory reporting and advisory services for the issuer. On 30 June and 31 December each year, the Finance Agency publishes a list ranking Bund Issues Auction Group members by their share of the weighted issuance volume allotted, without quoting percentages.

Operational implementation

Federal Government auctions take place on the Bund Bidding System (BBS) electronic auction platform provided by the Bundesbank. The Bundesbank is responsible for technical implementation of the auction process; in other words, it announces the auction and the invitation to bid, monitors bidders' submissions on the day of the auction and publishes the auction results. The Finance Agency and the Federal Ministry of Finance both have direct links to the BBS, and they make the economic decisions - ie they determine the allotment conditions such as allotment prices and volumes on the day of the auction. Once the deadline for bids has passed, it is generally the case that the allotment decision is made and the auction results are announced via the BBS and financial information providers within the space of two minutes.

Auction procedure

Allotment is based on what is known as the multiple price method, meaning that the accepted price bids are allotted at the price specified in the respective bid. Noncompetitive bids are filled at the weighted

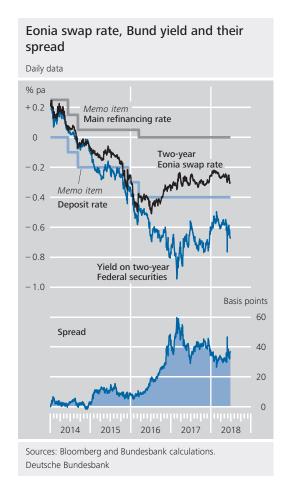
average price of the bids accepted. Bids above the lowest price accepted are allotted in full; those below the lowest price accepted are not considered. Bids at the lowest price accepted and non-competitive bids can be allotted *pro rata* — in other words, bids can also be filled here, albeit only to a limited extent. March 2018 saw the Federal Government use the BBS's new multi-ISIN auction functionality for the first time. This enables multiple Federal securities to be offered to investors in parallel as part of a single auction.

Secondary market activities

The Finance Agency sets aside a share of the securities issued in each auction as proprietary holdings of the Federal Government for secondary market operations. This amount is not defined in advance and varies from one auction to the next. On average, around 20% of the issuance volume is set aside for this purpose. Following the auction, these securities are gradually fed into the market by the Finance Agency in the context of secondary market activities. As a result, counterparties can still purchase Federal securities from the issuer after they have been issued in the primary market. In addition, the issuer might find it beneficial to smooth its borrowing to a degree over time. However, secondary market activities also include secondary market operations on the German stock exchanges, which entail the Bundesbank buying and selling listed Federal securities for the Federal Government's account. These operations aim to achieve fair prices which do not discriminate between different market participants (nor between institutional investors and retail customers) and to maintain liquid trading with low bid-ask spreads. The Bundesbank assists in setting a "Bundesbank reference price" on the Frankfurt Stock Exchange for every listed Federal security on every

trading day, which provides an important benchmark, especially for the retail business. This institutional framework plays a part in ensuring that Federal securities can be traded at robust prices that are in line with the market every trading day.

The Federal Government's proprietary holdings can also be used by the Finance Agency to collateralise securities repurchase agreements (repos) and interest rate swap transactions, as well as for securities lending. The Federal Government's securities transactions are settled via the cash and safe custody accounts it maintains with the Bundesbank.



two instruments therefore does not stem materially from different levels of credit quality. However, contracts based on Eonia swap rates cannot be used as stores of value – unlike government bonds, which are considered safe. This is because, during the term of the contract, only the net interest cash flows based on the notional amount (which is not invested) are swapped. The spread between the Eonia swap rate and bond yield thus also contains a premium for the scarcity of safe investments in times of high excess liquidity.

By way of example, the scarcity premium can be illustrated by the yield spread between two-year Eonia swap rates and the yield in the two-year maturity category. It is apparent that there is a close connection between Eonia swap rates and bond yields over a longer horizon. But what is striking is that in 2016 only the yield on two-year Bunds systematically fell, leading to the yield spread between the two instruments widening to 60 basis points at its Growing scarcity since early 2016

Scarcity premiums for short-term bonds

Greater scarcity one side effect of the APP Federal securities have become more scarce for the private sector as a direct side effect of the asset purchase programmes, and their prices have risen. A key question is which investor group is willing to pay the scarcity premiums on Federal securities.

Here, the scarcity premium is defined as the spread between interest rates on swap contracts pegged to the Eonia ("Eonia swap rates" for short) and yields on matched-maturity Bunds. 15 It is worth comparing these two interest rates because Eonia, being the reference interest rate for swap contracts, is an average rate for overnight money in euro interbank transactions which is calculated on the basis of actual transactions. Owing to its short maturity of one day, overnight money has negligible default risk. An interest rate spread between the

Possible reasons for this wider spread include the relevant liquidity regulations for banks (Basel III) and the European Market Infrastructure Regulation (EMIR), which, taken in isolation, could have induced stronger and relatively price-inelastic demand for short-term

peak by early 2017.

Possible reasons for the widened spread: regulation, ...

Scarcity premium: the spread between Eonia swap rates and matchedmaturity Bund yields

15 The Eonia (euro overnight index average) is closely linked to the Eurosystem's key interest rates because, in times of a structural liquidity deficit, it is heavily geared towards the main refinancing rate or – in times of high excess liquidity – towards the deposit rate. Interest rate swaps are contracts in which two counterparties agree to exchange a series of fixed interest cash flows for floating interest cash flows stem from an underlying (but uninvested) amount of money and the agreed fixed and floating interest rates, with the level of the floating interest rate being adjusted at predefined future points in time over the term of the contract. The fixed interest rate is agreed between the counterparties at the beginning of the contract such that the present value of the net payment is zero.

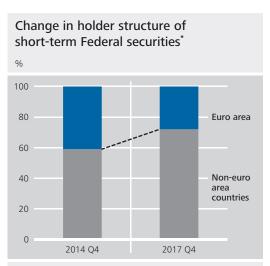
bonds amongst institutional investors. ¹⁶ This effect is mitigated by the fact that central bank liquidity can also count towards regulatory requirements and excess liquidity has increased under the PSPP. This is why investors without access to the deposit facility, in particular, are more loath to part with Federal securities. They are willing to pay higher prices for these securities and to accept lower yields. Additionally, the Finance Agency reduced its previously planned issue volume owing to the sound budgetary position in the final quarter of 2016.

... asset purchase programme ... The Eurosystem's asset purchase programmes have probably increased the scarcity of Federal securities across almost all maturities, with both direct and indirect effects likely to be playing a role. The direct effects include purchases of short, medium and long-term German government securities under the PSPP.

... and excess liquidity

Indirect effects are likely to hit short-term securities first and foremost; they are connected with the mounting excess liquidity caused by the purchase programmes. It is presumed that chiefly market participants without access to the deposit facility - ie non-MFIs and the investors from non-euro area countries that dominate among sellers – invest funds in shortterm Federal securities. MFIs appear to offer institutional investors such poor terms for deposits in times of high excess liquidity that the investors prefer to park their funds directly in Federal securities. Furthermore, investors with no access to the deposit facility also, of their own accord, avoid concentration risk stemming from bank deposits with individual institutions and invest funds in short-term Federal securities instead.

Mainly non-euro area investors use short-term securities as a safe store of value This assumption is backed up by the holder structure. In the case of Federal securities with an original maturity of up to two years, there was a considerable percentage rise in the share of non-euro area investors (without access to the deposit facility) over the duration of the asset purchase programme, although the share of non-euro area countries' holdings of all Fed-



Sources: ESCB (SHSS database) and Bundesbank calculations. * Proportion of short-term Federal securities listed in the SHSS at nominal prices with an original maturity of up to two years. Deutsche Bundesbank

eral securities fell over the same period.¹⁷ By contrast, euro area banks with access to the deposit facility reduced their holdings of short-term Federal paper. This means that some banks, unlike insurers, took advantage of the high prices of Federal securities to collect the yield spread between Federal securities and the expected rate of return on funds in the deposit facility. As mentioned above, the interest rate spread between Federal securities and the Eonia swap rate is also attributable to institutional factors in that the banking system does not have to compete for deposits from institu-

16 One regulatory ratio for banks is the liquidity coverage ratio (LCR). The LCR is a balance sheet ratio of unencumbered high quality liquid assets (HQLA) - which include Federal securities – to total assets. The LCR was phased in over time. The harmonised liquidity requirement for banks has applied EU-wide since 1 October 2015. Another ratio used in banking supervision is the structural liquidity ratio (or net stable funding ratio (NSFR)). It is defined as the ratio of sustainable funding (including equity capital and longterm liabilities) over the required stable funding. However, the NSFR rule only entered into force after the period analysed here. The EU regulation on OTC derivatives, central counterparties and trade repositories (European Market Infrastructure Regulation, or EMIR) of 2012 also contains rules on OTC derivatives trading. It requires open derivatives positions, ie positions where claims and liabilities have not yet been settled, to be collateralised – for example, by government bonds or cash deposits. The regulation entered into force on 1 September 2017 and will be phased in up until 1 September 2020.

17 See also the speech by Benoît Cœuré of 3 April 2017 entitled "Bond scarcity and the ECB's asset purchase programme" at https://www.ecb.europa.eu/press/key/date/2017/html/sp170403_1.en.html

tional investors when excess liquidity levels are high, thus pressuring them, by way of unattractive overall conditions, into investing in Federal securities. For the reasons given above, the observed scarcity premium probably declines in an environment of receding excess liquidity.

Market liquidity in the context of the purchase programmes

High liquidity important for effective implementation of the PSPP High market liquidity is important for the effective implementation of the PSPP. However, the decline in Federal securities in free float reduced the volumes available for trading and thus, potentially, market liquidity. However, market liquidity is a multifaceted concept, and academic researchers, market participants and policymakers have yet to reach a consensus on how to measure it. Typically, there are three dimensions of market liquidity: "width" (cost of executing a trade at a given volume), "depth" (the tradable volume at a given price) and "resiliency" (the half-life of random price fluctuations). In view of the complexity of the concept, no individual ratio covers all aspects of market liquidity.

Declining trading volumes and more fragmented trading point to decrease in liquidity Federal securities trading activity has been in decline since the 2000s, notably due to the effects of the financial and economic crisis. In the spot market, according to Finance Agency statistics, annual gross trading volumes transacted by the members of the Bund Issues Auction Group fell from more than €7,000 billion in 2005 to less than €5,000 billion in 2017.18 Although the outstanding bond volume rose from 2005 onwards, 2016 saw the lowest trading volume in the spot market. The PSPP may also have played a part in this development. In the Eurex futures market, the volume of futures contracts with Federal securities as the underlying has also been lower since the financial crisis. Against this backdrop, trading in both the spot and futures markets has also grown somewhat more fragmented. This is borne out by the fact that trades have involved increasingly smaller transaction volumes over time. In particular, large transactions have become more expensive and thus less frequent.

Quantitative analyses are made more difficult by the fact that bonds are mostly traded overthe-counter (OTC); in other words, trading is conducted in a decentralised manner directly between market participants. Compared with listed shares, bond trading is therefore more fragmented, and scarcely any data on prices and volumes are available that are representative of the market. In addition to traditional bilateral telephone trading, more and more OTC transactions are being conducted on electronic trading platforms.

Decentralised trading structure makes quantitative analysis difficult

Individual operators of electronic trading platforms use a central order book with limits (known as a limit order book) to settle bond purchases. Buying and selling bids with the respective prices and quantities are collected in these limit order books. Since every bid is binding, a robust picture of the market is obtained which allows in-depth analyses. However, relatively low volumes are traded on trading platforms compared with OTC trading, which means that the results need to be put into perspective. Limit order book as a further source of data

A ratio known as order book illiquidity, which can be determined on the basis of information on the limit order book, is of interest when analysing liquidity. This ratio contains the liquidity dimensions width in the numerator and depth in the denominator. The width of the order book corresponds to the average bid-ask spread of the five closest buy and sell orders. The depth of the order book, meanwhile, is derived from the total volume of these five bid and ask prices, respectively. Order book illiquidity rises as bid-ask spreads widen and volumes

Order book illiquidity contains the liquidity dimensions width and depth

¹⁸ When calculating volumes traded, trades transacted between members of the Bund Issues Auction Group are counted twice for statistical purposes. Transactions in which no member of the group is involved, on the other hand, are not included in the statistics.

decline.¹⁹ This makes it more informative than a simple spread of the bid and ask prices that are closest together.

Increase in order book illiquidity since 2016 In the data used here, which are from the trading platform MTS (Mercato telematico dei Titoli di Stato) for the period from January 2014 to the end of June 2018, the difference between the simple bid-ask spread (between the best buying and selling price) and the order book illiquidity becomes clear. The simple bid-ask spread shows no clear trend. In contrast to this simple spread, it may be seen that the order book illiquidity for ten-year Bunds increased from the beginning of 2016. This was primarily due to the decline in order book depth. The corresponding width across the five best prices increased only slightly. The calculations based on the order book entries thus confirm the indications that the market liquidity for larger trading volumes has deteriorated.20

The Eurosystem uses securities lending to counter short-term illiquidity

Spikes in the simple bid-ask spread as well as in order book illiquidity were found at the end of both 2016 and 2017. These spikes coincide with strong negative secured money market rates in the repo market over the balance sheet dates. However, these year-end effects were of a rather temporary nature and had no lasting impact on the repo market itself or on the liquidity of the government bond market. Ultimately, the Eurosystem's securities lending facilities, through which a certain amount of the securities purchased by the Eurosystem are made available for securities lending, are likely to have also contributed to this.²¹ The lending plays a part in the fact that when demand for a specific paper is high, its supply can be temporarily increased. In this way, the market for German Federal securities as a whole can be kept highly liquid (see the box on pages 17 to 19).

In general, the functioning of the Bund market is not impaired There is no indication of a fundamental impairment of the effective functioning of the market as a result of the PSPP in the segment considered here of recently issued ("on-the-run") bonds. Only in connection with larger trading volumes have some cases of deteriorating li-

Market liquidity

9 March 2015 = 100, 1 five-day moving averages



Sources: MTS and ECB calculations. **1** Date of the first bond purchases under the PSPP. **2** Order book illiquidity is a quotient of the width of order book liquidity (average bid-ask spread of the five closest buy and sell orders in the order book) and the depth of order book liquidity (sum of the volumes offered at these five bid and ask prices in the order book).

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quidity been observed since 2016. Beyond the on-the-run bonds considered here, there are also signs that the depth and resiliency of liquidity decrease in bonds purchased by the central bank, particularly older ones.²²

Factors affecting the development of Bund yields

In the period after the PSPP was launched, liquidity and scarcity premiums rose somewhat on the whole in the Bund market. However, it is important for monetary policy to identify general macro, financial market and economic variables which have an impact on Bund yields. For this reason, it makes sense to take a some-

Factors affecting the development of Bund yields over a longer term

- **19** See ECB, Euro area sovereign bond market liquidity since the start of the PSPP, Economic Bulletin, Issue 2/2018, Box 2. Details may be found here on how to determine order book illiquidity and the underlying data of the provider MTS. The second-most recently issued ten-year Bund is considered in each case.
- **20** The rise in order book illiquidity is not reflected in the euro area aggregate. In the euro area as a whole, the share of APP purchases in relation to the outstanding volume is lower than for German paper, however.
- 21 For information on the role of the Eurosystem's securities lending in the repo market, see W Arrata, B Nguyen, I Rahmouni-Rousseau and M Vari (2017), Eurosystem's asset purchases and money market rates, Banque de France Working Paper No 652.
- **22** See K Schlepper, H Hofer, R Riordan and A Schrimpf, Scarcity effects of QE: a transaction-level analysis in the Bund market, Deutsche Bundesbank Discussion Paper, No 06/2017.

what longer view in order to examine factors affecting the development of Bund yields beyond the PSPP. To this end, the previously mentioned special developments arising in connection with the PSPP (scarcity and liquidity premium) are also taken into consideration. In addition, factors such as monetary policy as a whole (interest rate movements and PSPP), international effects and safe haven flows are also looked at more closely.

Bund yields down considerably overall, but yields also up at times In conjunction with global interest rates, Bund yields fell considerably overall in the last few years. Yields also rose strongly at times, however. Two examples of phases of strongly increasing yields are the taper tantrum in the United States in 2013, which also affected Bund yields, and the Bund tantrum in spring 2015. The following analysis therefore also examines the extent to which the selected determinants may, during the two tantrum phases, have given rise to special factors which contributed to the temporary surges in yields.

Determinants of the estimation: ...

... slope of the Eonia swap rate curve measures policy rates expectations. ... The following individual factors are taken into account:

- According to the expectations hypothesis of the term structure, the slope of the Eonia swap rate curve at the short end, calculated as the two-year Eonia swap rate minus the one-month Eonia swap rate (Slope_Eonia), is an indicator of future changes to short-term interest rates over the next two years and thus also of the expected path of future key interest rates.²³ Because central banks take economic activity and price developments into account when setting interest rate policy, this could indirectly also reflect the economic and inflation outlook. The slope of the Eonia swap rate curve is expected to have a positive impact on the (ten-year) Bund yield (Bund_Interest).
- The interest rate relationship with the United States is measured in terms of the yield of ten-year US Treasuries (US_Interest). US yields lagged by one stock exchange trading

day are used to capture a potential impact of US yields on Bund yields in order to allow for the time difference between the USA and Germany. The impact of US yields is expected to be positive.

 The particularly high market liquidity of Bunds is measured as the difference between the yield of bonds issued by public promotional banks, such as Kreditanstalt für Wiederaufbau (KfW), and German Bunds. This means that, in contrast to the bid-ask spread, it is not an absolute but a relative measure of market liquidity. This measure takes into account not only the particularly high market liquidity of ten-year benchmark bonds, but also the general, maturityindependent liquidity advantage of Bunds. To this end, first the yield spread between the bonds of public promotional banks and Bunds is calculated for every full-year maturity between one and ten years.²⁴ A principal component analysis is then carried out to calculate the first principal component of the maturity-specific spreads, which then serves as a measure of the maturityindependent liquidity premium of Bunds (PC_Liquidity).25 It is expected to have a negative impact on Bund yields.

 A potential scarcity of Bunds is interpreted as a response to excess demand which, like the liquidity premium, drives yields below ... the yield spread of governmentguaranteed bank bonds measures the liquidity premium on Bunds. ...

... the US interest rate measures the interest rate relationship, ...

²³ According to the expectations theory of the term structure, the long-term interest rate is dependent only on the current short-term interest rate and the expected future short-term interest rates, whereas possible term premiums are disregarded. As term premiums play only a minor role in the short-term maturity spectrum, the slope of the yield curve in this segment probably mainly reflects the expected path of the short-term interest rate. This is in line, for example, with empirical evidence on US swap rates; see S Sundaresan, Z Wang and W Yang (2017), Dynamics of the expectation and risk premium in the OIS term structure, Kelley School of Business Research Paper No 17-41. See also S P Lloyd (2018), Overnight index swap market-based measures of monetary policy expectations, Bank of England Staff Working Paper No 709.

²⁴ Data are not available for six-year bonds issued by public promotional banks. The yield spreads can therefore only be calculated for the other full-year maturities.

²⁵ The first principal component explains 84% of the total

... Eonia swap spreads measure potential scarcity premiums, ...

the risk-free interest rate. The resulting scarcity premiums are reflected, for example, in the repo market²⁶ and in the difference between Eonia swap rates and Bund yields, which was discussed above in connection with the holder structure. In order to guantify general, maturity-independent scarcity premiums, the difference between the respective Eonia swap rates (as a measure of the risk-free interest rate) and Bund yields is calculated for each full-year maturity between one and ten years. As a measure of the scarcity premium, the first principal component of these maturity-specific Eonia spreads is factored into the estimation (PC_ Scarcity).27 It should have a negative impact on yields.28

... and the VDAX measures equity market uncertainty

- Lastly, the estimation takes into account the possible impact on Bund yields that may result from portfolio shifts by investors following a change in equity market uncertainty. The VDAX volatility index, which measures the implied volatility of the DAX calculated from options, is used as a measure of equity market uncertainty. The VDAX should have a negative effect on Bund yields.

This estimation is based on daily data, whereby all of the variables are measured in first differences in order to rule out the possibility of nonstationarity. The observation period from the beginning of 2012 until 23 May 2018 is selected such that it covers the impact of the sovereign debt crisis as well as the two tantrum phases. In order to avoid autocorrelation in the residuals, all estimations are supplemented by a lagged term for the Bund yield.

Scarcity premiums and slope of the Eonia swap rate curve are the key explanatory factors

The selected determinants explain 65% of the total dispersion of Bund yields.²⁹ All of the estimated coefficients have the expected sign and are significant at least at the 5% level (Estimate 1 in the table on page 32). The results suggest that the scarcity premiums and the slope of the Eonia swap rate curve both have a particularly important impact. In order to assess the strength of the effects, it is useful to standardise the estimated coefficients such that they reflect the impact on the dependent variable in standard deviations. A standardisation of this kind reveals that an increase in the scarcity premiums by one standard deviation lowers the Bund yield by 0.48 of a standard deviation. A slightly weaker (positive) effect (0.40 of a standard deviation) is derived for the slope of the Eonia swap rate curve.30

The reported effect of the scarcity premiums, which have risen considerably since the beginning of 2016, implies that they dampened yields in the last two years in particular. This effect apparently stemmed from scarcity premiums not only in the ten-year maturity seqment but also at the shorter end, where the scarcity was particularly pronounced. Possible reasons for this are the above-mentioned growth in demand among institutional investors in a number of maturity segments, the Eurosystem's increased holdings as well as the rising levels of excess liquidity in the banking system.

Possible reasons for the scarcity of Bunds

The strong influence also exerted by the slope of the Eonia swap rate curve at the short end

Influence of the slope of the Eonia swap rate curve

underlines the importance of expectations re-

26 In the repo market, repo rates below the deposit rate, for example, indicate scarcity premiums on the underlying Bunds. The scarcity of an individual bond is expressed, moreover, in its specialness premium. This represents the difference between the repo rate for the general collateral trade (where the collateral is only required to meet general quality standards) and the repo rate for the specific collateral (where a specific individual bond constitutes the collateral).

27 The first principal component explains 89% of the total variance.

28 In addition to the other full-year Bund yields, yields on ten-year Bunds are also factored into the measures used for the maturity-independent scarcity and liquidity premiums (the first principal components) in each case. An endogeneity problem cannot therefore be categorically ruled out. As this impact is relatively low for both measures, however, the possibility of such an endogeneity problem appears to be negligible.

29 Including the lagged value for the Bund yield in the estimation equation is immaterial for the coefficient of determination. This is demonstrated by a further estimation without a lagged Bund yield, with robust standard errors (Newey-West method).

30 As all of the variables are measured in first differences, the standard deviations also refer to the differences in the variables.

Determinants of ten-year Bund yields°

	Estimate 1		Estimate 2		Estimate 3	
Explanatory variable	Coefficient	p value	Coefficient	p value	Coefficient	p value
С	0.00*	0.05	0.00*	0.04	0.00*	0.01
Bund_Interest(-1)	- 0.05*	0.00	- 0.05*	0.01	- 0.05*	0.00
US_Interest(-1) × Taper_Tantrum	0.19*	0.00	0.19* 0.01	0.00 0.86	0.19*	0.00
US_Interest(-1) × Bund_Tantrum					0.12	0.50
Slope_Eonia Slope_Eonia × Taper_Tantrum	0.99*	0.00	0.97* 0.17	0.00 0.34	0.95*	0.00
Slope_Eonia × Bund_Tantrum					2.51*	0.00
PC_Scarcity PC_Scarcity × Taper_Tantrum	- 0.02*	0.00	- 0.02* - 0.01*	0.00 0.01	- 0.02*	0.00
PC_Scarcity × Bund_Tantrum					0.03*	0.05
PC_Liquidity PC_Liquidity × Taper_Tantrum	- 0.01*	0.00	- 0.01* 0.01*	0.00 0.01	- 0.01*	0.00
PC_Liquidity × Bund_Tantrum					- 0.05*	0.00
VDAX VDAX × Taper_Tantrum	- 0.31*	0.00	- 0.34* 0.68	0.00 0.06	- 0.32*	0.00
VDAX × Bund_Tantrum					- 0.84*	0.01
Adj R²	0.65 0.66		0.6	57		

O The regression (estimated in differences) is based on daily data from 2 January 2012 to 23 May 2018. The dependent variable is the ten-year Bund yield (Bund_Interest). US_Interest is the yield on ten-year US Treasuries. Slope_Eonia is the slope of the Eonia swap rate curve at the short end (two-year Eonia swap rate minus one-month Eonia swap rate). PC_Scarcity and PC_Liquidity are each the first principal component of a principal component analysis which factors in the differences between Eonia swap rates and Bund yields and the yield spreads of guaranteed bank bonds over Bunds. VDAX is the volatility index. Taper_Tantrum and Bund_Tantrum are dummy variables for the taper tantrum and Bund tantrum. * Significant at the 5% level.

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garding the future path of key interest rates over the next two years. This applies not only to the monetary policy environment up until the end of 2014, which was characterised by falling central bank interest rates, but also to the period thereafter, when central bank rates were already close to zero and unconventional measures shaped monetary policy.³¹

possibility that demand for Bunds as a safe haven is particularly strong in periods of heightened uncertainty (see the box on pages 33 to 37).

Effects of US yields, liquidity premiums and the VDAX Compared with the scarcity premiums and the monetary policy stance, US yields and liquidity premiums constitute weaker, yet still important, determinants of Bund yields.³² The reported impact of US yields illustrates the importance of international capital flows and of the transatlantic interest rate linkage. As US yields lagged by one day are used for the estimation, the reported impact also implies a leading indicator property of US interest rates, which are reflected in Bund yields with a time lag.³³ Compared with the other determinants, the VDAX has a weaker impact on Bund yields.³⁴ However, that does not rule out the

³¹ A further estimation for the subperiod from the beginning of 2015 indicates that the Eonia swap rate curve had a similarly strong effect even after the decision for the PSPP was adopted in January 2015.

³² Measured in terms of standard deviations, they amount to 0.24 of a standard deviation for US yields and 0.23 of a standard deviation for the liquidity advantage.

³³ This leading indicator property does not exclude the possibility that yields on Bunds and US yields influence one another, however. See also SE Curcuru, M De Pooter and G Eckerd (2018), Measuring monetary policy spillovers between U.S. and German bond yields, International Finance Discussion Papers 1226; and Deutsche Bundesbank, International linkage of interest rates and the national term structure, Monthly Report, October 2007, p 28.

³⁴ An increase by one standard deviation in the VDAX (measured in differences) lowers Bund yields (measured in differences) by 0.11 of a standard deviation.

How safe haven effects impact on Bund yields – a SVAR analysis

Times of crisis tend to depress the yields of German Federal bonds (Bunds) as investors often take flight to "safe havens" where they can evade the heightened uncertainty. But Bund yields are not the only variables that adjust in response to critical situations — other macroeconomic and financial variables are also affected, and in some cases interdependencies exist as well. Structural vector autoregression (SVAR) models can be used to shed light on these adjustment processes from an econometric vantage point.

Risk-averse households respond to a sudden onset of heightened uncertainty¹ surrounding future economic developments by reducing expenditure and building up financial buffers (precautionary saving effect). Enterprises, meanwhile, are more reluctant to make investments (eg real options effect) or hire new employees, with the result that they largely retain the revenue they earn.² The ultimate outcome of these two effects is a weakening of real economic activity with something of a time lag. Funding conditions might also tighten (financial constraints). Unlike real economic variables, prices and quantities in financial markets respond immediately to episodes of heightened uncertainty because investors instantly step up their demand for safe yet liquid alternatives. They also tend to switch between asset classes as securities generating more volatile cash flows in a less certain economic backdrop fall out of favour compared with assets with steady and reliable disbursement profiles. This response to heightened uncertainty is known as the flight to safety or quality, and also as safe haven flows.

Government bonds normally account for the bulk of safe (and liquid) securities.³ As a result, a flight to safety event will typically depress the prices of equities, say, and push up government bond prices, thus reducing their yields.⁴ To study the impact of an unexpected flight to safety event on Bund yields, it is important to account for any interdependencies that might exist between a given uncertainty measure, financial market variables and real economic variables. For example, (unexpected) monetary policy

- 1 Strictly speaking, uncertainty denotes the inability of economic agents to determine a probability distribution for uncertain future events ie they are unable to assign specific probabilities to a potential set of events. This is where uncertainty differs from risk, where economic agents are aware of, or can at least estimate, a probability distribution over a set of events. See N Bloom (2014), Fluctuations in uncertainty, Journal of Economic Perspectives 28(2), pp 153-176. As discussed in Bloom (2014), the term "uncertainty" will be used in this box text more as a combination of these two concepts, given the empirical difficulties involved in distinguishing them from one another.
- **2** See N Bloom (2009), The impact of uncertainty shocks, Econometrica 77(3), pp 626-685; and S Basu and B Bundick (2017), Uncertainty shocks in a model of effective demand, Econometrica 85(3), pp 937-958. For more on how elevated aggregate uncertainty impacts on enterprises' cash holdings, see J Gao, Y Grinstein and W Wang (2017), Cash holdings, precautionary motives, and systematic uncertainty, Indiana University
- **3** An increase in money market instruments (such as transferable deposits) is another factor in this regard. See L Baele, G Bekaert, K Inghelbrecht and M Wei (2013), Flights to safety, NBER Working Paper No 19095.
- 4 See RB Barsky (1989), Why don't the prices of stocks and bonds move together?, American Economic Review 79(5), pp 1132-1145; or G Bekaert, E Engstrom and Y Xing (2009), Risk, uncertainty and asset prices, Journal of Financial Economics 91(1), pp 59-82. Another term used frequently in spells of heightened financial market stress is "flight to liquidity". Flights to liquidity can also be observed during bouts of elevated market uncertainty, in the form of portfolio reallocations into highly liquid securities, which particularly include government bonds. See D Vayanos (2004), Flight to quality, flight to liquidity, and the pricing of risk, NBER Working Paper No 10327. It is not always possible to clearly distinguish flights to liquidity from flights to safety, which is why flights to liquidity are often included in the flight to safety category.

decisions might also have a bearing on uncertainty.5 Furthermore, there is a strong correlation between the financial risk which financial intermediaries are willing to bear, on the one hand, and uncertainty, on the other.6 Thus, if the uncertainty measure is used in isolation to explain yields without considering potential interdependencies, one might conclude - incorrectly - that a flight to safety event has occurred. The aim, then, is to identify an unexpected increase in uncertainty (an exogenous uncertainty shock) as a factor driving the flight to safety. Hence the use of a structural vector autoregression (SVAR) model, as it is known, as an econometric methodology, which explicitly considers interdependencies between variables and is capable of depicting the dynamic processes of adjustment to economically interpretable innovations (shocks).7

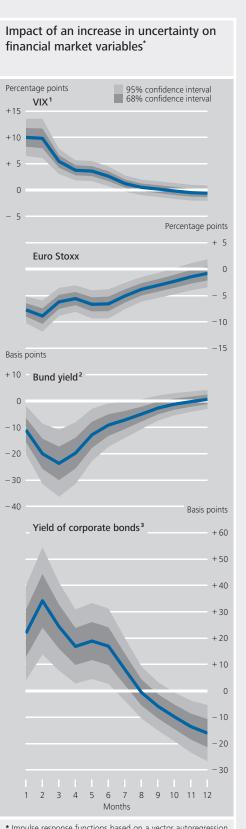
The uncertainty measure used in this analysis is the VIX implied volatility index derived from options on the S&P 500, a broad US equity index.8 Other variables included in the SVAR after the VIX are industrial production for the euro area (in logs), the rate of inflation for the euro area, the Euro Stoxx equity index (in logs), the yield of corporate bonds,9 the short-term shadow rate,10 the yield of ten-year Austrian government bonds, and the yield on ten-year Bunds. The observation period begins in January 2007, ie before the onset of the financial crisis, and ends in March 2018.11 All variables are included at a monthly frequency. 12 The chosen ordering – putting macroeconomic variables ahead of interest rates and financial market variables - is standard in

- **5** See G Bekaert, M Hoerova and M Lo Duca (2013), Risk, uncertainty and monetary policy, Journal of Monetary Policy 60(7), pp 771-788. The authors show that an unexpected accommodative monetary policy measure (expansionary monetary policy shock) reduces uncertainty.
- **6** Hence the need to distinguish between financial shocks and uncertainty shocks. See D Caldara, C Fuentes-Albero, S Gilchrist and E Zakrajšek (2016), The macroeconomic impact of financial and uncertainty shocks, European Economic Review 88, pp 185-207.
- **7** The identification scheme is the Cholesky decomposition, which assumes that shocks to a variable affect all the other variables ordered afterwards in the same period, but only have a lagged impact on variables ordered beforehand.
- 8 Implied equity market volatility generally includes both uncertainty and risk aversion. However, since uncertainty dominates the variance in implied equity market volatility, it would appear that implied equity market volatility is a good proxy for uncertainty. See G Bakaert, M Hoerova and M Lo Duca (2013), op cit; and G Bekaert and M Hoerova (2014), The VIX, the variance premium and stock market volatility, Journal of Econometrics 13(2), pp 181-192. It is nonetheless worth noting that the measure used here for uncertainty also includes risk aversion. The reason for using the US equity market here is that the US has the most significant capital market worldwide. The VIX is, however, highly correlated with the implied volatility for the DAX (VDAX-NEW) or the Euro Stoxx (VStoxx).
- **9** The iBoxx non-financials BBB index for bonds with a residual maturity of between seven and ten years is used.
- 10 More information on shadow rates can be found in L Krippner (2015), Zero lower bound term structure modelling: a practitioner's guide, New York, Palgrave Macmillan US. They are also discussed in Deutsche Bundesbank, Monetary policy indicators at the lower bound based on term structure models, Monthly Report, September 2017, pp 13-34. The time series used (last accessed on 25 May 2018) can be found at https://www.rbnz.govt.nz/research-and-publications/research-programme/additional-research/measures-of-united-states-monetary-policy/comparison-of-international-monetary-policy/
- comparison-of-international-monetary-policy-measures
- 11 The end of the observation period is determined by data availability constraints. The shadow rate and the yields on corporate bonds, Austrian government bonds and Bunds all follow a clear downward trend during the observation period. This is derived using a Hodrick-Prescott filter. The SVAR therefore provides an explanation for deviations from this downward trend. The trend itself cannot be explained by the approach chosen. Further information on explanatory approaches for the trend can be found in Deutsche Bundesbank, The natural rate of interest, Monthly Report, October 2017, pp 27-42.
- 12 This means that flight to safety events which are more protracted and therefore feed through to real economic variables can be identified better. Using data at shorter intervals will tend to capture short-term flight to liquidity events. Monthly averages derived from daily data are used for the VIX, the equity index and yields.

the literature. 13 Uncertainty is ordered first in the SVAR.14 This allows us to interpret that uncertainty shocks generally impact simultaneously on all the variables that follow them, but that all the other shocks only affect the uncertainty indicator with a time lag.15 The equity market indicator is ordered before the yields of corporate bonds. The rationale behind this is that equity prices include more of a forward-looking component and can thus capture expectation effects surrounding economic developments that lie in the more distant future. Bund yields are ordered last so that all the other structural innovations which impact on Bund yields can be captured in the same period. Finally, the yield of Austrian government bonds is included to measure the yield spread between two government bonds which have an identical AAA rating and thus have the same credit quality. Any difference that might arise can thus be expected to reflect the benchmark status of Bunds in addition to possible market liquidity effects. The identification of the uncertainty shock is highly robust to changes in the order.16

The uncertainty shocks estimated and identified using the procedure outlined above show the responses typical to a fight to safety event discussed at the beginning of

¹⁶ Only if equity prices are ordered before the uncertainty measure does the structural shock to equity prices ultimately capture the uncertainty shock.



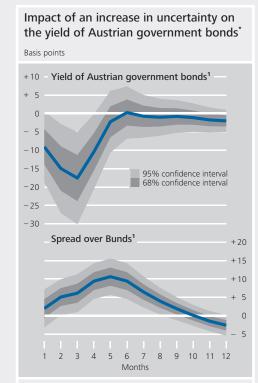
^{*} Impulse response functions based on a vector autoregression model. Confidence intervals bootstrapped. 1 Implied option volatility of the S&P500 index for contracts with a maturity of 30 days. 2 Residual maturity of ten years. 3 Based on the iBoxx non-financials BBB index for bonds with a residual maturity of between seven and ten years.

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¹³ In a Cholesky decomposition, the ordering of variables has a bearing on the identification of the driving structural innovations. However, the ordering used here is of secondary importance for the uncertainty shock, which is ordered first, and only relates to the interpretation of the other shocks, which are not discussed in any further detail here.

¹⁴ The SVAR is estimated using the ordinary least squares (OLS) approach. As an alternative, it is also possible to use Bayesian techniques to estimate the SVAR. However, since the estimation results do not differ substantially, the results are based on the OLS estimation.

¹⁵ See S Basu and B Bundick (2017), op cit; or D Caldara, C Fuentes-Albero, S Gilchrist and E Zakrajšek (2016), op cit.



* Impulse response functions based on a vector autoregression model. Confidence intervals bootstrapped. 1 Residual maturity of ten years.

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Importance of the increase in uncertainty for financial market variables (forecast error variance decomposition)*

%

	Yield after					
Item	1 month	6 months	1 year	2 years		
Bund yield ¹ Austrian government	9.6	22.9	22.9	22.5		
bond yield ¹ Equity prices Corporate	5.9 59.5	10.6 56.2	10.2 35.2	9.9 19.8		
bond yield	22.8	25.4	20.3	19.0		

* Table shows the importance of the uncertainty shock for the forecast error variance as a percentage at different points in time. 1 Residual maturity of ten years.

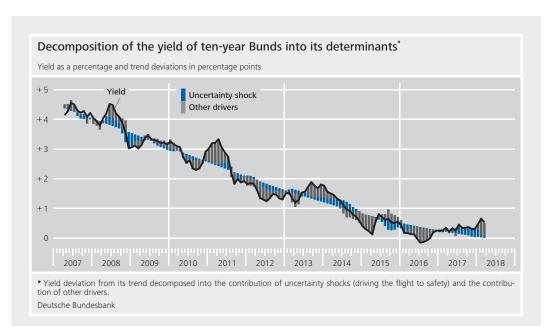
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this box text (see the chart on page 35). Taken in isolation, an unexpected increase in uncertainty, measured in terms of a 10-percentage-point¹⁷ increase in the VIX, depresses equity prices by just over 8%. Prices of risk-bearing non-financial corporate bonds likewise come under pressure, their yields climbing by as much as 30 basis

points at their peak. That is, investors lower their valuations of assets whose (expected) cash flows have become more uncertain and "take flight" from these assets. As uncertainty recedes in the months that follow, equity prices recover and the yields of corporate bonds decline again. During this flight to safety, ten-year Bund yields fall initially by a little more than ten basis points. Yields decline even further over the course of the next half-year, depressing Bund yields by almost 25 basis points compared to the base level. This lagged response probably shows that flights to safety identified at monthly intervals do not end abruptly. It is also worth noting that Bund yields decline more sharply than the yields of Austrian government bonds with identical maturities (see the adjacent chart). While the shape of the responses is quite similar, the yields of ten-year Austrian government bonds fall less sharply – with a peak decline of just under 20 basis points. Note also that Bund yields take more time to recover than their Austrian counterparts. The spread between both yields therefore widens to a little more than ten basis points after roughly half a year. 18 The uncertainty shock – the driver behind flight to safety episodes – explains almost 10% of the forecast error variance of Bund yields in the first month, compared to just over 6% at most in the case of Austrian government bond yields (see the adjacent table). At the six-month horizon, the shock explains more than twice as much of the forecast error variance of Bund yields (just over 23%) compared to Austrian government bond yields (almost 11%). Over the long run, almost one-quarter of the forecast error variance of Bund yields can be ac-

¹⁷ This corresponds to roughly one standard deviation of the VIX in the observation period.

¹⁸ There is evidence that the different responses shown by the respective yields are statistically significant.



counted for by the flight to safety.¹⁹ The fact that Bunds show a stronger response to flight to safety events than their Austrian counterparts ultimately reflects the Bund's status as a benchmark security.

poorer credit ratings observed during the sovereign debt crisis.

Flight to safety events occur whenever uncertainty rises (exogenously). This is why Bund yields usually edge lower during such episodes. The financial crisis, in particular, played a major role during the observation period because it can ultimately be interpreted as a combination of uncertainty and financial shocks.20 After peaking at just over 4.5% in July 2008, Bund yields declined by a little more than 1.5 percentage points between October 2008, when the financial crisis came to a head, and December of that year (see the above chart). Flight to safety events during this period contributed roughly -1 percentage point to the decline in yields. During the sovereign debt crisis, a number of euro area countries went through spells in which flight to safety effects depressed Bund yields by roughly 50 basis points. While it would be wrong to dismiss a decline of this magnitude out of hand, uncertainty shocks were not the main driver behind the spreads of countries with

19 In a VAR, the path followed by variables is determined by exogenous drivers (shocks), allowing for interdependencies between the variables. This means that, following a shock in one period, it is possible to forecast the future development of variables. The difference between realised outcomes in a given period and their values forecast earlier (forecast errors) can be attributed to new shocks. As a result, the forecast error variance is linked to the variance of the variables that arises from the impact of the various shocks in each period and the feedback effects embedded in the model.

20 For evidence for the United States, see D Caldara, C Fuentes-Albero, S Gilchrist and E Zakrajšek (2016), op cit.

Analysis of the taper and Bund tantrums

Dummy variables measure taper and Bund tantrums In the following, two further estimations examine the extent to which the chosen determinants had a stabilising effect on Bund yields during what are referred to as the taper tantrum and the Bund tantrum. To this end, the duration of both tantrums is defined in such a way as to fully cover the two (local) periods of rising interest rates. The time span from 3 May 2013 until 11 September 2013 is set for the taper tantrum; the Bund tantrum is defined as lasting from 17 April 2015 until 10 June 2015. For the further estimations, a dummy variable is then defined for each of the two tantrums, which are combined with the determinants (Taper_Tantrum, Bund_Tantrum).

Liquidity premiums during the taper tantrum insignificant For the phase of the taper tantrum, the results indicate a significantly lower sensitivity of Bund yields to their market liquidity and to equity market uncertainty, as well as a heightened sensitivity to the scarcity premiums (Estimate 2 in the table on page 32). Thus, neither the liguidity premiums, which actually widened during the tantrum, nor equity market uncertainty had a significant impact on yields overall during this phase. Apparently, market liquidity and events in the equity markets were insignificant for the increase in yields at that time, while scarcity premiums, which were somewhat lower on balance, played an above-average part in this respect. No changed effects are found for the other determinants. Interestingly, this also applies to the (at that time, sharply rising) US yields, which continued to be reflected strongly in Bund yields.

The significant rise in Bund yields during the Bund tantrum by almost one percentage point probably largely reflects the fact that market participants at the time felt the previous decline in yields to be excessive and corrected it very

quickly. The estimation results provide information on the respective contributions of the selected determinants. They point to a temporary, considerably weaker (and ultimately, therefore, to an insignificant) impact of the scarcity premiums and, at the same time, to significantly stronger effects stemming from the slope of the Eonia swap rate curve, the liquidity premiums and the VDAX (Estimate 3). Thus, the slope of the Eonia swap rate curve at the short end gained just under 10 basis points during the Bund tantrum, to which long-term Bund yields reacted particularly sensitively. At the same time, the liquidity advantage and equity market uncertainty decreased somewhat. This, coupled with the heightened sensitivity of Bund yields to these two variables, likewise made a significant contribution to the sharp rise in Bund yields.

Scarcity premiums and slope of the Eonia swap rate curve have particularly strong impact during Bund tantrum

Conclusion

The analysis of possible drivers of yields of tenyear Bunds reveals, in particular, that scarcity premiums were among the main determinants in explaining yield movements of late. These results therefore reflect the shifts in the holder structure of Federal securities, which show that the Eurosystem's purchases under the PSPP considerably reduced the volume of Federal securities in free float. Moreover, analysis of the holder structure suggests that the asset purchase programme is also having an impact via portfolio adjustments and the exchange rate. In addition, the moderate decline in market liquidity also plays a role as a driver of yield movements. This is consistent with a reduced free float, the decrease in trade volumes and the growing order book illiquidity recorded for ten-year Bunds since the beginning of 2016. However, this has not affected the proper functioning of the bond market as a whole.

The realignment of the Chinese economy and its global implications

Over the past few decades, China has risen to become a global economic power, but this catching-up process has slowed significantly in recent years. An important reason for this is that the export-oriented growth model has reached its limits. Chinese companies used to be specialised in the production of labour-intensive consumer goods; the sales potential on the international markets is now largely exhausted. In addition, wages have risen sharply as a result of a growing shortage of labour, with the result that the cost advantages of Chinese exporters have diminished.

During the global financial and economic crisis and its aftermath, China pursued very expansionary fiscal and monetary policies in order to counter the slowdown in economic growth. This led to over-investment in various sectors and to a sharp rise in debt, particularly in the public sector and among state-owned enterprises. This is likely to have increased the vulnerability of the Chinese economy to crises.

In recent years, the Chinese government has therefore pursued moderate reforms. On the supply side, it is aiming to boost technological convergence in order to upgrade the country's export range, and progress appears to have been made on this front. On the demand side, the authorities are working to put an end to unprofitable investments, particularly from state-owned companies. At the same time, greater importance is being attached to private consumption. House-hold demand has already grown fairly dynamically over the past few years and, against this backdrop, services have become considerably more important in macroeconomic terms.

Due to China's extensive trade relations and the size of the country, the ongoing transformation of its economy is having a discernible global impact. The shift in demand from investment to consumption is dampening growth in Chinese imports. In the export sector, the structural change in China in the field of labour-intensive production is opening up opportunities for other Asian emerging market economies. By contrast, the shift to higher-end products could put exporters from advanced economies, including Germany in particular, under mounting competitive pressure.

Introduction

Increased significance of China for the global economy ...

The Chinese economy has experienced a remarkable rise since the reform and opening-up policy was launched 40 years ago. Once a developing country, it is now the second largest economy in the world.1 One of the key factors in China's success has been its integration in the international division of labour. China has been the world's leading exporter of goods for several years and has gained an outright dominant position on the international markets for a whole swathe of consumer goods, in particular. The creation of an efficient capital stock necessary for China's catching-up process led to a massive expansion of investment in the country, from which the German economy, as a major provider of capital goods, has benefited greatly.

... with still considerable development potential

The absolute size of the Chinese economy, however, masks still significant untapped development potential. For example, the average per capita income on the basis of purchasing power parities last year stood at just over one-quarter of the equivalent US figure. China thus belongs to the group of middle-income economies playing catch up with the advanced economies.

Source: National Bureau of Statistics (NBS) of China. Deutsche Bundesbank Nevertheless, this catching-up process has slowed down markedly in recent years. Between 2007 and 2016, economic growth slowed almost continuously from year to year.² Negative external factors, such as the global financial and economic crisis and the recessions in some euro area countries, are likely to have temporarily curbed expansion. By contrast, the global economic environment has been rather favourable in recent years. Despite this, economic growth in China has languished far below its previous rates, stabilising at just under 7% per year. It is hence very likely that the underlying pace of growth has slowed even further.

The slowdown in growth in recent years ...

In other Asian countries that experienced a rapid catching-up process in the past, economic growth slowed over time (see the box on pages 48 and 49). That said, the slowing of growth in China has been comparatively sharp. It is evident that the "natural" moderation of growth that accompanies rising per capita income is not the only factor at play here.

... has been significantly sharper than expected

Need for economic adjustment

One of the key reasons for the marked moderation of growth in the Chinese economy is likely to lie in the limits of the export-oriented economic model that prevailed in China in the past. Very expansionary monetary and fiscal policies, which were pursued until recently, caused additional problems.

- 1 China's gross domestic product (GDP) on the basis of market exchange rates stood at US\$12 trillion in 2017, compared with just over US\$19 trillion for the United States. Measured in purchasing power parities, China's economic output has been higher than that of the United States since 2014.
- **2** The slowdown in growth in China was an important factor though not the only one in the slowing of growth among the group of emerging market economies as a whole. See Deutsche Bundesbank, Slowdown in growth in the emerging market economies, Monthly Report, July 2015, pp 15-31.

Limits of export orientation

Sputtering export engine

For a long time, economic growth in China was driven largely by external demand. China's accession to the World Trade Organization (WTO) in 2001 gave Chinese exports of goods an additional boost. Between 2001 and 2013, China's share of global trade rose from 4% to 12%. However, in recent years the export engine has started to sputter, and the country has not seen any additional meaningful gains in market share.

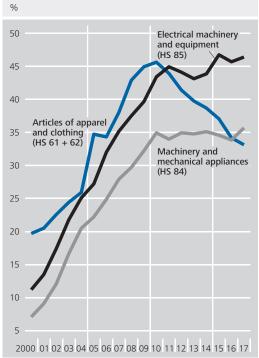
Chinese exporters specialised in labour-intensive products One of the factors behind the flattening of export growth is that China, given its wage cost advantage, used to specialise in labour-intensive production. Chinese exporters were quick to move away from simple products, such as clothing, and increasingly towards higher-end goods, especially electronics. However, companies usually only carried out the final stage of production, ie assembling the final product using imported parts and components. Although China was able to raise the share of its own value added in its exports somewhat, it has nevertheless essentially remained stuck in its role as a "workshop of the world".³

Export orientation has encountered demandside limits This export strategy appears to have reached demand-side limits in recent years. As China is a major economy, its export growth ultimately depends on the absorption capacity of the global market. For many of the products it exports, China has probably already largely exhausted its sales potential. For example, China has supplied just under half of all electronics imports to the European Union in recent years, and for certain products its share of imports has been very much higher still. The demand-side limits of an export-oriented growth strategy make themselves felt more quickly for a major economy than for small countries (see also the box on pages 48 and 49).

Tightening of the labour market ...

A second barrier to further Chinese export growth is linked to the supply side, namely an increasing shortage of labour in China. For example, the rural labour reserve, which was





Source: Eurostat Comext. * Excluding intra-trade; product classification in accordance with the Harmonized Commodity Description and Coding System (HS).

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drawn on in the past to cover the rising demand for labour, has since been largely absorbed.⁴ As a result, wage growth accelerated markedly, and well above the rate of productivity gains.⁵

- **3** See H L Kee and H Tang (2016), Domestic value added in exports: Theory and firm evidence from China, American Economic Review, Vol 106(6), pp 1402-1436; and R Koopman, Z Wang and S-J Wei (2008), How much of Chinese exports is really made In China? Assessing domestic value-added when processing trade is pervasive, NBER Working Papers 14109.
- 4 According to official statistics, there are millions of people still employed in agriculture in China, and it is often assumed that they are in "hidden" unemployment. However, a large proportion of these people are already of an advanced age and may be reluctant or unable to work, for example, as an industrial worker far away from home. Moreover, the official household registration system (hukou) also restricts rural dwellers' mobility by preventing migrants from obtaining access to social welfare benefits and education services in the cities. See inter alia H Li, L Li, B Wu and Y Xiong (2012), The end of cheap Chinese labor, Journal of Economic Perspectives, Vol 26(4), pp 57-74.
- **5** The argument that a labour surplus is a drag on wage growth until the surplus has been completely absorbed is based on the "Lewis model". See WA Lewis (1954), Economic development with unlimited supplies of labour, The Manchester School 22(2), pp 139-191.

... and currency appreciation lead to strong rise in wages Compared to other countries, there has been an additional rise in labour costs in China as a result of the renminbi's pronounced tendency to appreciate. Average monthly wages in manufacturing rose from the equivalent of US\$160 in 2005 to US\$800 in 2017. This increase in wage costs has placed a number of Chinese producers of export goods under considerable pressure. Particularly in the textiles sector, many enterprises moved abroad.

The consequences of a very expansionary economic policy

Government strategy long based on economic stimulus measures Until recently, the Chinese government had pursued expansionary fiscal and monetary policies in order to counter the slowdown in economic growth. High GDP growth rates were considered necessary, particularly in order to satisfy the population's aspirations to secure and further improve their standard of living.

Over-investment in infrastructure

Fiscal policy was used heavily during the global financial and economic crisis. In order to cushion the sharp drop in exports, the Chinese government initiated a massive investment programme. Given the size of the programme and the haste with which it was implemented, long-term utility considerations are likely to have fallen by the wayside in many projects. In subsequent years, too, government investment remained exceptionally high, and it seems that this led to over-investment and misinvestment in public infrastructure. Government debt went up steeply as well.

Expansionary monetary policy fuelled lending ... The onset of the global financial and economic crisis marked the beginning of a phase of exceptionally expansionary monetary policy in China. This triggered a veritable credit boom: between 2008 and 2015, the commercial banking sector's outstanding loans measured as a share of nominal GDP rose from 94% to 136%. ¹⁰ A particular problem was that loans flowed on a preferential basis to state-owned enterprises (SOEs) whose liabilities were implicitly guaranteed by the state. The productivity

of investments made by SOEs has, however, always been low.¹¹ As a result, significant overcapacity arose in many industrial sectors dominated by SOEs, such as steel production.

The expansionary monetary policy has resulted in low interest rates on bank deposits, prompting many households to invest some of their savings in property. This has contributed to a strong upturn in the real estate market, where – at least in some regions – there are likely to have also been price exaggerations and an excess of newly constructed housing.¹²

... and contributed to the boom in the residential property market

Overall, the already very strong investment activity in China increased again significantly in the wake of the country's extremely expansionary monetary and fiscal policy. From 2009 to 2014, the investment-to-GDP ratio stood at no less than 45%. At the same time, the product-

Lower productivity of capital overall

- ${\bf 6}$ This tendency was ushered in by the abolition of the hard peg to the US dollar in 2005.
- **7** According to official data, the 27-month investment programme had a volume of 4 trillion yuan, corresponding to just under US\$600 billion. This equated to 12½% of Chinese GDP in 2008. In comparative terms, this stimulus was therefore the largest of any country in the world at the time. See C Wong (2011), The fiscal stimulus programme and public governance issues in China, OECD Journal on Budgeting, Vol 11/3, pp 53-73; and B Naughton (2009), Understanding the Chinese stimulus package, China Leadership Monitor 28.
- 8 See H Shi and S Huang (2014), How much infrastructure is too much? A new approach and evidence from China, World Development, Vol 56, pp 272-286; and A Ansar, B Flyvbjerg, A Budzier and D Lunn (2016), Does infrastructure investment lead to economic growth or economic fragility? Evidence from China, Oxford Review of Economic Policy, Vol 32(3), pp 360-390.
- **9** According to calculations by the International Monetary Fund (IMF), general government debt in China rose from just under 40% of GDP in 2007 to 62% in 2016. These figures take into account that Chinese provinces and local governments often financed their infrastructure investment outside of regular budgets. See IMF (2017), People's Republic of China Staff Report 2017 for the Article IV Consultation, p 22.
- **10** On the impact of accommodative monetary policy on lending, see S Chen and JS Kang (2018), Credit booms is China different?, IMF Working Paper, WP/18/2.
- 11 See also C-T Hsieh and Z Song (2015), Grasp the large, let go of the small: The transformation of the state sector in China, Brookings Papers on Economic Activity, Vol 46(1), pp 295-366; and D Dollar and S-J Wei (2007), Das (Wasted) Kapital: Firm ownership and investment efficiency in China, IMF Working Paper, WP/07/9.
- **12** See inter alia E Glaeser, W Huang, Y Ma and A Shleifer (2017), A real estate boom with Chinese characteristics, Journal of Economic Perspectives, Vol 31(1), pp 93-116.

ivity of capital fell significantly. According to our calculations, the aggregate return on capital fell from 18% in 2008 to 10% in 2015.¹³ Investment income has actually fallen short of investment expenditure of late. Furthermore, the falling productivity of capital is weighing on the sustainability of general government debt and corporate debt, leading to risks for the stability of the Chinese financial system (see the box on pages 44 to 46).

Chinese economy in a difficult transformation

Turnaround in economic policy underway

The challenges of realigning an export model based on labour-intensive consumer goods and the harmful side effects of the extremely expansionary macroeconomic policy led to a gradual adjustment of the economic policy stance after the political leadership change in 2012. The Chinese government is aiming to accelerate technological progress on the supply side, accompanied by a shift from investment to consumption on the demand side.

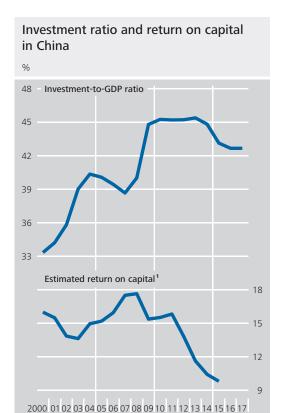
Acceleration of technological progress

Sharp increase in research and development ...

The intensification of technological progress played a key role in the successful convergence processes of other Asian economies in the past (see the box on pages 48 and 49). The Chinese government has also adopted such a strategy in recent years. To this end, it has improved the environment for innovation, for example by establishing patent courts, 14 while also fostering research activities among enterprises. Against this backdrop, aggregate expenditure on research and development has increased significantly. With a share of just over 2% of GDP, it is now close to the average level for OECD countries.

... and massive investment in human capital

Furthermore, China has been investing heavily in human capital for quite some time now, sharply increasing the supply of highly skilled



Source: National Bureau of Statistics (NBS) of China and Bundesbank calculations. **1** For more information on the calculation, see the explanations in the main text.

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workers. One of the key measures has been the expansion of universities, leading to a nearly threefold increase in the number of university students between 2003 and 2013. The pro-

13 For these calculations, the capital stock depreciation rate is deducted from the ratio of investment income to the capital stock. For the approximation of investment income that is not directly reported, we follow the approach taken by He et al (2007). According to this, employee compensation and net taxes on products (weighted by the share of employee compensation to gross value added) are deducted from nominal GDP. In order to estimate the capital stock, fixed investment (net of capital consumption) is cumulated. Following Ma et al (2017), the annual depreciation rate is set at 7%. See D He, W Zhang and J Shek (2007), How efficient has been China's investment? Empirical evidence from national and provincial data, Pacific Economic Review, Vol 12(5), pp 597-617; and G Ma, I Roberts and G Kelly (2017), Rebalancing China's Economy: Domestic and International Implications, China & World Economy, Vol 25(1), pp 1-31.

14 See World Economic Forum (2016), China's innovation ecosystem, White Paper; and OECD (2017), Economic Surveys: China, Chapter 1 – Boosting firm dynamism and performance, pp 61-96.

15 Relating to bachelor, master and doctoral degrees; data sourced from the UNESCO Institute for Statistics (UIS). More recent figures are available, but these are not comparable due to a methodological break.

Risks to the stability of the Chinese financial system

China's national financial system was of central importance in its strategy for economic ascendance. Key sectors of the economy were to be afforded a cheap supply of capital, while market principles for the allocation of capital and liability for the assumed risks played only a secondary role.

Since the outbreak of the global financial and economic crisis, this strategy has been increasingly at odds with preserving financial stability. As a result of China's very expansionary monetary policy, the level of debt, especially in the corporate sector, has risen massively compared to gross domestic product (GDP). For example, total credit to the nonfinancial private sector over a ten-year period up to 2017 increased by over 90 percentage points to 209% of GDP.² In many other countries, such pronounced and protracted growth in credit has, in the past, led to a financial crisis or a major economic slowdown.³ An early

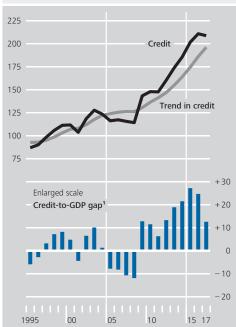
warning indicator commonly used to identify systemic risks in the banking sector, namely the extent to which the credit-to-GDP ratio exceeds its long-term trend, has already been signalling heightened risks since 2012.4

Another sign that there has been a build-up of financial risks as a result of deteriorating debt sustainability in parts of the corporate sector is the interest coverage ratio.⁵ In 2016, around 13% of corporate debt was originated by companies whose earnings were insufficient to cover their interest expenditure. So far, official figures do not show a significant rise in non-performing bank loans, which stood at a relatively low level of 1.7% of all outstanding bank loans in 2017.⁶ Nevertheless, these official figures may understate the true extent of problems concerning borrowers' creditworthiness.⁷

The credit boom was made possible by the rapid growth in the Chinese financial system,

Credit to the non-financial private sector in China and the credit-to-GDP ratio gap*

As a percentage of GDP



Source: BIS credit-to-GDP gap statistics. * Credit from all sectors. 1 Difference between credit and the trend in credit.

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- **1** See IMF (2017), People's Republic of China Financial System Stability Assessment, p 7.
- 2 These data are based on calculations by the Bank for International Settlements (BIS) and include loans and debt securities from all sectors.
- **3** See S Chen and JS Kang (2018), Credit booms is China different?, IMF Working Paper, WP/18/2.
- 4 The credit-to-GDP ratio expresses the relationship between credit to the non-financial private sector and nominal GDP. The credit-to-GDP gap measures the difference between the credit-to-GDP ratio and its long-term trend. Based on historical data, setting a threshold of 10 percentage points of divergence from the trend minimises the possibility of false alarms, provided that at least two-thirds of actual crises are predicted correctly over a time horizon of three years. See BIS (2017), 87th Annual Report, p 45 f.
- **5** The interest coverage ratio is calculated by dividing a company's earnings before interest, taxes, depreciation and amortisation (EBITDA) by its interest expenditure.
- **6** If "special-mention loans", ie loans that are overdue but not yet classed as non-performing, are included, the share of at-risk loans in 2017 was around 5%.
- **7** See IMF (2017), People's Republic of China Financial System Stability Assessment, p 45. In 2016, the rating agency Fitch estimated the share of non-performing loans in the Chinese financial system to be between 15% and 21%. See Fitch, China's rebalancing yet to address credit risks, press release of 22 September 2016.

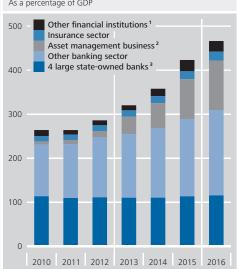
at the core of which lies the banking sector, whose total assets amount to just over three times the size of nominal GDP.8 This sector is dominated by four large state-owned banks, though the significance of small and mediumsized banks has increased considerably of late. Most of these smaller institutions are also subject to state control, usually from local government agencies. IMF stress tests indicate that there is a risk of insufficient capitalisation for many small and medium-sized banks, which could exacerbate the effects of a crisis in the event of an unfavourable macroeconomic development.9

The Chinese banking sector also played a major role in the dynamic growth of the shadow banking sector, 10 with small and medium-sized credit institutions, in particular, issuing "shadow bank financing instruments" such as wealth management products (WMPs) or channelling funding to trust companies.11 Between 2014 and 2016, around half of banking-sector lending to the non-financial private sector was made via these types of financing instruments. These largely offbalance-sheet transactions generally required less capital under the existing guidelines and lower risk provisioning on the part of banks compared to conventional lending. 12 This also made it possible to circumvent regulatory provisions restricting banks from lending to certain sectors.¹³ Although this practice did ultimately boost economic growth in the short term, it also increased overall economic credit risk and made the financial system more complex.

In recent years, the Chinese government has boosted its efforts to reduce risks to financial stability. In doing so, it is facing a difficult balancing act. There is a certain tension between significantly reducing risks arising from credit developments and short-term macroeconomic growth targets. 14 Measures taken by authorities to lower risk in the financial system have recently focused on restricting shadow lending and limiting opportunities for regulatory arbitrage. Supervisory authorities now increasingly monitor banks' off-balance-sheet activities and have tightened regulations for

Financial assets of Chinese financial institutions

As a percentage of GDP



Sources: IMF, People's Republic of China Financial Stability Assessment, October 2017, and Bundesbank calculations. **1** Includes pension funds, public funds and securities companies. 2 Includes the assets under management of bank off-balancesheet wealth management products, trust companies, specialised funds, securities companies, private equity companies and futures companies 3 Industrial and Commercial Bank of China China Construction Bank, Agricultural Bank of China and Bank

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- 8 The Chinese banking system is currently the largest in the world in terms of its assets. See E Cerutti and H Zhou (2018), The Chinese banking system: much more than a domestic giant, VoxEU (https://voxeu.org/ article/chinese-banking-system).
- 9 See IMF (2017), People's Republic of China Financial System Stability Assessment, p 23 ff.
- 10 When compared internationally, China's shadow banking sector was one of the fastest growing in the world between 2013 and 2016. See Financial Stability Board (2018), Global Shadow Banking Monitoring Report 2017, p 50 f.
- **11** WMPs are savings instruments which in many cases guarantee higher returns than traditional bank deposits and have an investment focus on bonds, money market instruments and bank deposits. See T Ehlers, S Kong and F Zhu (2018), Mapping shadow banking in China: structure and dynamics, BIS Working Papers
- 12 See IMF (2017), Global Financial Stability Report October 2017: is growth at risk?, p 38 f.
- 13 See IMF (2017), People's Republic of China Financial System Stability Assessment, p 17.
- 14 If the measures to reform the financial system are to succeed, it will therefore also be necessary to have accompanying reforms to reduce the economy's vulnerability to a slowdown in credit growth. See IMF (2017), Global Financial Stability Report October 2017: is growth at risk?, p 40 f.

complex financial products. ¹⁵ The newly established Financial Stability and Development Committee has been set up to ensure better collaboration between the various authorities responsible for regulating and supervising the financial system. To strengthen financial supervision, the National People's Congress also passed a resolution in March this year to bring its banking and insurance watchdogs under one roof.

Implicit guarantees are still a major challenge when it comes to ensuring financial stability in China. For example, investors can expect to be compensated by banks or the government in the event of losses arising from a wide range of financial products such as debt instruments issued by state-owned enterprises and investment products issued by banks. ¹⁶ This hampers efforts to evaluate the true risk of financial assets and ultimately causes a misallocation of capital. Enacting policies that explicitly rule out these types of guarantees could put an end to the distorted incentives that arise from them. ¹⁷

A crisis in the Chinese financial system could have a noticeable negative impact on other countries as China's importance as an international lender and borrower has risen significantly since the global financial crisis. The cross-border claims of Chinese banks stood at just under US\$1 trillion at the end of 2017.18 Emerging and developing countries in South-East Asia, Africa and Latin America in particular have borrowed heavily from Chinese banks in recent years and are therefore highly dependent on these capital providers. 19 In 2017, China's foreign claims and liabilities totalled around US\$12 trillion or 100% of its national GDP. Closer financial integration increases the risk that a shock in China will spill over to the international financial system.²⁰

The German financial system would probably be affected mainly by indirect spillover effects in the event of a financial crisis in China.²¹ While the direct exposures of Germany's banking system and insurance companies to Chinese debtors has risen in recent years and stood at €42 billion overall at the end of 2017,

these exposures account for only 1.9% and 0.7%, respectively, of each financial sector's foreign assets.²² Direct investment accounts for the lion's share of Germany's direct financial exposure to China, and most recently amounted to around €80 billion. Resulting losses would initially be felt primarily in Germany's non-financial corporate sector, which holds over 90% of these assets.²³ There would only be reason to fear credit risk to the German financial system if losses arising from direct investment were to have a negative impact on companies' solvency.

15 See IMF (2017), People's Republic of China – Financial System Stability Assessment, p 34.

16 The prevailing practice whereby banks usually fully compensate the losses that small investors suffer in capital investments such as WMPs reinforces this perception.

17 Such an approach, however, harbours the risk of investors changing their behaviour abruptly, potentially triggering destabilising effects on the financial system. Against this backdrop, the IMF recommends a series of reforms to accompany the dismantling of implicit guarantees. See IMF (2017), People's Republic of China – Financial System Stability Assessment, p 32 and p 36.

18 Source: BIS Locational banking statistics for mainland China excluding Hong Kong.

19 See E Cerutti and H Zhou (2018), op cit.

20 See Y Korniyenko, M Patnam, RM del Rio-Chanon and M Porter (2018), Evolution of the global financial network and contagion: a new approach, IMF Working Paper, WP/18/113. The international financial centre of Hong Kong would probably be most directly affected by a shock to the Chinese financial system, given its close financial ties.

21 For example, major price corrections on the Chinese equity market and fears of a potential economic slump in China in mid-2015 had a direct effect on global financial markets. See Deutsche Bundesbank, Financial Stability Review, November 2015, p 18. Risks could also spill over to the German financial system via second round effects from financial hubs such as the United Kingdom, whose banking system has close direct and indirect financial ties with China and Germany. For more details on the United Kingdom's financial linkages with China, see Bank of England (2018), From the Middle Kingdom to the United Kingdom: spillovers from China, Quarterly Bulletin 2018 Q2.

22 Data from the Bundesbank's credit register of loans of €1.0 million or more as at 31 December 2017.

23 According to international investment position as at 31 December 2017.

portion of science and engineering students is particularly high in China.

China's technological catch-up process has made significant progress of late

As a result of these policy efforts in innovation and education, China has since progressed noticeably in the technological catching-up process. For example, there has been a significant increase in the number and the quality of Chinese patent applications in the past few years. ¹⁶ Furthermore, in the case of a number of technically sophisticated products, such as smartphones, Chinese manufacturers have become increasingly important internationally. These successes clearly should not belie the fact that China still lags noticeably behind the world leaders in many key technologies, such as semiconductors.

Guiding industrial policy aims to make China global leader in technology

The Chinese government is aiming to transform China into a global leader in technology over the medium term. With this in mind, it announced its "Made in China 2025" ten-year plan in 2015, which set out ambitious targets for the development of ten domestic industrial sectors, including information technologies, electric vehicles, and industrial robots. Alongside subsidies, the instruments of the plan also include holdings in foreign enterprises. In a number of partner countries - including Germany - this has stoked concerns of stateorchestrated transfers of technology to China.¹⁷ Furthermore, foreign enterprises operating in China fear that there will be increased pressure to surrender industrial expertise, in addition to other discriminatory measures.18

Shift of demand from investment to consumption

Chinese authorities tackling problem of overinvestment The second major adjustment taking place in the Chinese economy concerns the demand side. For around five years – and with increased effort in recent times – the Chinese government has been trying to put an end to overinvestment. State-owned enterprises are a starting point. They are being pushed to pay more attention to putting their funds to more

productive use and limiting their debt. For individual industrial sectors with chronic overcapacity, such as coal and steel, the government even went as far as to announce investment bans. However, in order to ensure a sustainable solution to the problem of over-investment among state-owned enterprises, implicit state guarantees and other privileges will probably also need to be abolished.¹⁹ Moreover, the authorities are cracking down on speculative purchases in the property market. A certain degree of moderation in government investment in infrastructure can also be observed.²⁰ Against the backdrop of these efforts, growth in overall economic investment has weakened considerably in recent years.

Private consumption, meanwhile, has seen constantly buoyant growth, increasing its im-

16 The increased quality can be seen in the number of patent applications abroad or the number of foreign citations of patents. See S-J Wei, Z Xie and X Zhang (2017), From "Made in China" to "Innovated in China": necessity, prospect, and challenges, Journal of Economic Perspectives, Vol 31(1), pp 49-70.

17 The holdings of Chinese enterprises in German companies have risen significantly in recent years. A large portion of these can indeed be categorised under one of the ten key sectors covered by the "Made in China 2025" policy. See Bertelsmann Stiftung (2018), Kauft China systematisch Schlüsseltechnologien auf? Chinesische Firmenbeteiligungen in Deutschland im Kontext von "Made in China 2025", GED study. For a discussion of the benefits and drawbacks of Chinese foreign direct investment in Germany, see Sachverständigenrat zur Begutachtung der gesamtwirtschaftlichen Entwicklung (2016), Transformation in China birgt Risiken, Jahresgutachten 2016/17, chapter 12, pp 464-501.

18 See European Union Chamber of Commerce in China (2017), China Manufacturing 2025: Putting industrial policy ahead of market forces, Report; as well as U.S. Chamber of Commerce (2017), Made in China 2025: Global ambitions built on local protections, Report.

19 Reorganising the SOE sector was indeed one of the Chinese government's main economic policy objectives in recent years. So far, however, increased participation of private capital donors in SOEs (known as "mixed-ownership reform"), rather than harmonising competitive conditions between SOEs and private companies, has been at the top of the reform agenda.

20 Changing incentives seem to be playing a vital role in the rethink. In the past, the performance of local politicians was chiefly measured by the rate of economic growth in their respective jurisdictions, which greatly incentivised government investment. Since 2013, however, the respective debt situation has also been taken into account in the performance evaluation.

What conclusions for China can be drawn from other Asian countries' convergence processes?

China's per capita income, measured in purchasing power parities, has now reached oneguarter of that of the United States. In the coming decades, China is aiming to join the ranks of the advanced economies. This is a leap which, in past decades, only few countries have accomplished. Some Asian countries that have made the leap are Japan, Taiwan and South Korea.1 Japan in the late 1950s had a similar status to that of China today, as did Taiwan in the mid-1970s and South Korea in the mid-1980s. In the course of their further ascent, all three countries saw their very rapid initial rates of economic growth diminish gradually,2 and the patterns of their growth changed.

In many respects, China's economic convergence process thus far is similar to that of Japan, Taiwan and South Korea. Those economies, too, followed an export-driven growth model in the past.3 Taiwan and South Korea managed to increase their exports-to-gross domestic product (GDP) ratio considerably even after having already achieved middleincome status. However, their shares of global exports were small, which meant that they did not hit absorption constraints. As a large economy, however, Japan attained an 8% share of global exports in the 1970s. For some product groups, this figure was much higher still. Later on, its global market share only rose slowly. Since the mid-1980s, it has actually been trending downward.4 For China, an even larger economy whose global market share has recently already hit 13%, this indicates that exports will not be able to drive the convergence process indefinitely.5

What this means going forward is that Chinese growth will be based to an increasing extent on domestic demand. In the relatively recent past, it already grew very sharply. Up until recently, its key determinant was the boom in investment, especially in infrastructure and other construction. The investment-to-GDP ratio ran up to nearly 50% in the past

few years. In Japan, Taiwan and South Korea, investment likewise rose sharply during the development process. However, in none of those countries did the aggregate investment ratio rise quite as sharply as in China. ⁶ This observation strengthens the case for believing that China may have witnessed certain exaggerations (see the explanation in the main text beginning on page 42).

In later stages of their convergence processes, Japan, Taiwan and South Korea saw their investment ratio diminish, with consumption acquiring greater macroeconomic importance. During that period, economic growth was increasingly being driven on the supply side by technological progress. Emerging economies can achieve this to a certain extent by adopting foreign technology. However, as they approach the technological frontier, home-grown innovation becomes more im-

- 1 The other two successful examples are Singapore and Hong Kong, though as city states their stories are not fully comparable with the Chinese case. In fact, there is no generally accepted definition of the income threshold above which a country is considered an "advanced" (or "developed") economy. Since 1989, the World Bank has published an annual classification of countries into four income categories. On this basis, South Korea was first classified as belonging to the highest category "high-income countries" in 1995.

 2 This observation is consistent with neoclassical growth theory, according to which a country's per capita income converges to a long-run equilibrium
- growth theory, according to which a country's per capita income converges to a long-run equilibrium path. The further a country's starting position is from the long-run equilibrium, the faster the convergence process will be.
- **3** See inter alia P W Kuznets (1988), An east Asian model of economic development: Japan, Taiwan, and South Korea, Economic Development and Cultural Change, Vol 36, No 3, Supplement, pp 11-43.
- **4** See K Guo and P N'Diaya (2012), Is China's exportoriented growth sustainable?, IMF Working Paper, WP/09/172.
- **5** See Deutsche Bundesbank, The catching-up process of major emerging market economies and its implications for global trade an analysis using the gravity model, Monthly Report, March 2016, pp 27-30.
- **6** Housing construction investment, in particular, seems to be extremely high in China relative to other Asian countries. See Deutsche Bundesbank, The potential effects of a downturn in the Chinese housing market on the real economy, Monthly Report, August 2014, pp 17-19.

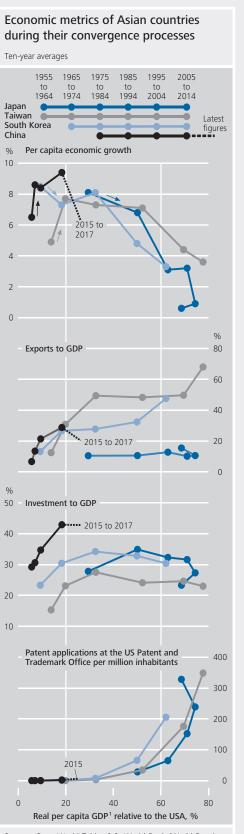
portant.⁷ Japan, Taiwan and South Korea made efforts early on towards this objective, creating a suitable environment for innovation by, for instance, enhancing the protection of intellectual property rights and investing in human capital. Moreover, they gave financial incentives to private sector companies to engage in research and development. Over time, these countries accomplished key inventions and technological breakthroughs.⁸

China, too, took a technology-driven path in the past few years. However - like the other countries in the region – it cannot simply build up innovative capacity overnight. It is therefore not surprising that, despite a distinct increase recently, China is still lagging far behind in international patent applications relative to its size.9 In 2015, the US Patent and Trademark Office registered only six Chinese patents per million inhabitants, whereas Japan, Taiwan and South Korea each posted more than 300 applications per million inhabitants. However, if China's development status is taken into account, the recently achieved figure is guite considerable. Should China successfully navigate the transition from an investment-based to an innovation-driven growth model, it will likely have good prospects for emulating the other Asian countries' growth track.

7 See inter alia D Acemoglu, P Aghion and F Zilibotti (2006), Distance to frontier, selection, and economic growth, Journal of the European Association, Vol 4(1), pp 37-74; and Asian Development Bank, Transcending the middle-income challenge, Asian Development Outlook 2017.

8 See inter alia World Bank (2012), China 2030: Building a modern, harmonious, and creative high-income society, Conference Edition, p 167; and PR Agénor, O Canuto and M Jelenic (2012), Avoiding middle-income growth traps, Economic Premise No 98.

9 Domestic patent applications, however, are a problematic benchmark since each national authority applies its own standards to patent applications. The benchmark used from here on will be applications registered by the US Patent and Trademark Office as its time series go significantly further back than, for instance, those of the European Patent Office.

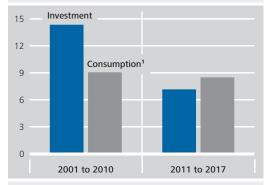


Sources: Penn World Tables 9.0, World Bank (World Development Indicators), US Patent and Trademark Office, national statistics and Bundesbank calculations. **1** Based on purchasing power parities.

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Growth in investment and consumption in China*

Average growth per year, %, price adjusted



Source: National Bureau of Statistics (NBS) of China and Bundesbank calculations. * Calculations based on officially reported growth contributions and each component's share of nominal GDP. 1 Including public consumption.

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Private consumption gaining in importance

portance to the economy as a whole.²¹ Strong wage growth was a key contributing factor to the rise in significance of consumption. In addition, households markedly reduced their rates of saving. At just under 40%, the saving rate measured as a percentage of disposable income was nevertheless exceptionally high even recently.²² The sharp increase in consumer demand in recent years was accompanied by a considerable shift in the pattern of expenditure. Higher-end goods, such as cars, have gained substantially in importance. In this regard, the rising number of middle-class households plays a vital role. The share of spending on services also grew, which resulted in the Chinese services sector experiencing a boom. Value added in the services sector is now almost 30% higher than in the production industry; up until a few years ago, both economic sectors were still more or less equally significant.23

Obstacles remain on path to "rebalanced" demand structure

Similar to the transition to innovation-based growth, China is only just taking its first steps on the path to a "rebalanced" overall economic demand structure. In order to further strengthen the role of private consumption, Chinese households would have to reduce their rates of saving, which – to a large extent, seemingly for precautionary reasons – continue to be extraordinarily high. An additional expansion of the social safety net could also contribute to this.²⁴

International impact of the realignment of China's growth model

China is deeply integrated into the global economy. It is not only the world's leading exporter, but also the second largest importer of goods. The transformation of the Chinese economy that is now underway, with its supply-side and demand-side aspects, is likely to bring about major changes to China's role in international markets. There could also be a marked impact on the Germany economy, which is closely intertwined with China via foreign trade. China is now the third largest sales market for German goods, and even ranks first in terms of imports.

Transformation likely to change China's role in international markets

China as a sales market

The distinct slowdown in Chinese economic growth in recent years was accompanied by an even more significant levelling-off in the country's import activities.²⁵ One major factor behind the sharp slowdown in Chinese imports was that, as a result of the decreased momentum in Chinese exports described above, the

Clear levellingoff in import arowth

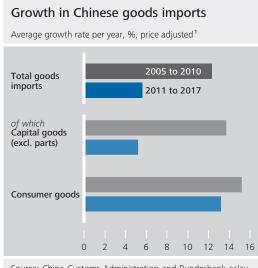
- 21 On the expenditure side, consumption (including public consumption, which is not reported separately), has already been the largest contributor to Chinese economic growth in arithmetical terms every year since 2014.
- **22** These data are based on the financial accounts, which are available up to 2015.
- 23 In addition, the services sector proved to be a driving force for job creation. Between 2010 and 2016, the number of persons employed in that sector rose by more than 70 million
- 24 See IMF (2017), China's high savings: drivers, prospects, and policies, IMF Country Report No 17/248, pp 4-16.
- 25 The slower rate of growth in Chinese goods imports also plays a key role in explaining the sluggish growth in global trade in recent years. See Deutsche Bundesbank, On the weakness of global trade, Monthly Report, March 2016, pp 13-35. It should also be noted that, in contrast to developments in goods trade, Chinese imports of services have risen very sharply in recent years. This is due, in particular, to booming foreign travel. See Deutsche Bundesbank, Driving forces behind the Chinese current account, Monthly Report, January 2015, pp 20-22.

need for foreign intermediate goods fell.²⁶ However, the realignment of China's growth model was an additional significant factor. In light of various technological breakthroughs, it is likely that this has enabled China to successfully replace some of its imports with domestic production. The aforementioned shift of emphasis within Chinese domestic demand probably had an even greater impact. As investment has a higher import content than private consumption, such a shift in demand will, in and of itself, lead to a reduction in imports.²⁷

German exports to China also see weaker growth ... German exporters are already feeling the effects of weaker import growth in China. Average growth in export earnings (in euro terms) from bilateral trade declined from 19% in the 2000s to 7% between 2011 and 2017. If the general price index for goods exports to noneuro area countries is used as a basis, there was an average increase of 6% in real terms over the past seven years, which was broadly in line with the growth of price-adjusted Chinese imports overall. This allowed Germany to keep its market share in China more or less stable.²⁸

... coupled with shift in sectoral structure This development is noteworthy since capital goods rank high among Germany's exports. In 2010, almost 30% of Germany's total earnings from goods exports to China were accounted for by machinery alone. In recent years, those exports have risen only slightly, which reflects the slowdown in investment growth in China. By contrast, however, there was robust growth in exports of automobiles and automotive parts.²⁹ In this regard, the shift in demand in China was beneficial for German exporters.30 Another category of goods that has also made gains in recent years is data processing units and electronic and optical products. This includes a number of high-end intermediate goods, such as semiconductors, which China has so far been unable to produce itself.

Moderate growth in German exports to China likely in the future The ongoing transformation of the Chinese economy is likely dampen the growth of Chinese imports even further. In particular, it is expected that the slowdown in capital goods im-



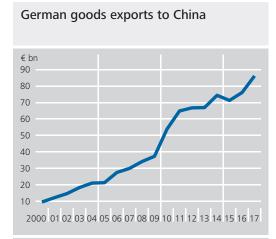
Source: China Customs Administration and Bundesbank calculations. **1** Based on unit values (quantum index).

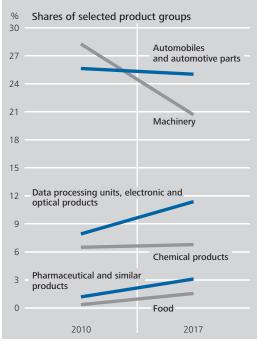
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ports will continue. In this regard, the lower capital intensity of the emergent services sector could have an impact alongside efforts to reduce inefficient investment. Due to their range of high-end goods, German exporters should greatly benefit from the prospective moderate growth in Chinese imports in the future, too.³¹

The outlook for an ongoing, successful realignment of the Chinese economy is, however, not

- **26** According to one estimate, nearly half of the slowdown in Chinese imports in recent years was due to the loss of momentum in export growth. See JS Kang and W Liao (2016), Chinese imports: what's behind the slowdown?, IMF Working Paper, WP/16/106.
- **27** According to an evaluation of the World Input-Output Database (WIOD), investment in China comprised just under 18% of foreign value added in 2014. At around 12%, the import content of private consumption was markedly lower.
- 28 Measured in terms of total Chinese expenditure on non-commodity imports, Germany's market share in recent years amounted to an average of 7½%.
- 29 The 61/2% per year average growth in exports of automobiles and automotive parts recorded over the past seven years is largely due to growth spikes in 2011 and 2012. It is likely that the subsequent subdued growth was linked to German manufacturers significantly expanding car production in China. See Deutsche Bundesbank, Reasons for the recent slump in German goods exports to China, Monthly Report, November 2013, pp 47-49.
- **30** Other examples are food and medicines. The corresponding earnings from exports to China rose sharply from 2011 to 2017, by an average of 32% and 23% per year respectively.
- **31** Another reason is the significant reductions in import tariffs on automobiles and automotive parts introduced by China on 1 July 2018, which are likely to be especially favourable to German companies.





Source: Federal Statistical Office and Bundesbank calculations. Deutsche Bundesbank

Successful transition scenario, but with downside risks without risk. For instance, debt has risen sharply, which poses a risk to the financial system and economic growth. With regard to China's global significance, an abrupt downturn would have international spillover effects – not least for the German economy, which shares close trade interlinkages with China (see box on pages 53 and 54).

China as a supplier and competitor

The transformation of the Chinese economy will likely change the country's role in the inter-

national division of labour, too. Consumers in industrial countries have greatly benefited from China's specialisation in labour-intensive products thus far. According to various studies, consumer price inflation was dampened by the availability of cheap imports from China and other emerging market economies.³²

Consumers in industrial countries benefited from cheap Chinese imports in the past

Have the disinflationary effects now reversed themselves?

The strong wage growth in China raises the question of whether these disinflationary effects have now petered out or even reversed themselves.33 There is no evidence for the latter, at least. That is partly because there are other countries in the region that still have very low wage costs - labour-intensive production in China was able to migrate to these countries. Accordingly, China's share of labourintensive products imported into the European Union (excluding intra-EU trade) has fallen considerably in recent years, while Asia's share as a whole has remained practically unchanged. It is unclear to what extent countries such as Vietnam and Bangladesh will continue to have sufficient capacity to absorb labour-intensive industrial sectors pulling out of China in the future.

For advanced economies, the realignment of Chinese industry could raise the degree of competition. Even in the last few years, Chinese companies have increasingly been coming into competition with suppliers from industrial Competitive pressure from China in third markets ...

32 An earlier study found that, due to cheap imports from Asian emerging market economies, consumer price inflation in the euro area was suppressed by an average of 0.3 percentage point per year between 2001 and 2005. A more recent paper concerning the effects of cheap imports from low-wage countries on France estimates this figure to be 0.2 percentage point for the 1994 to 2014 period. See N Pain, I Koske and M Sollie (2006), Globalisation and inflation in the OECD economies, OECD Working Paper 524; and J Carluccio, E Gautier and S Guilloux-Nefussi (2018), Dissecting the impact of imports from low-wage countries on French consumer prices, Banque de France Working Paper Series No 672. In the overall picture for consumers, however, it must be acknowledged that China's upswing has contributed to higher commodity prices. See, for example, S Eickmeier and M Kühnlenz (2016), China's role in global inflation dynamics, Macroeconomic Dynamics, Vol 22(2), pp 225-254.

33 See also Deutsche Bundesbank, The development of labour costs in China and their impact on consumer prices in the industrial countries, Monthly Report, May 2013, pp 13-15.

The international spillover effects of a sharp economic downturn in China

The outlook for the Chinese economy remains generally upbeat, with the International Monetary Fund's baseline scenario in the April 2018 World Economic Outlook projecting that GDP growth will slow just gradually to 5½% in 2023. But the sharp rise in debt, particularly in the corporate sector, and opaque interlinkages in the financial system entail not inconsiderable risks which cannot be ignored (see the box on pages 44 to 46).

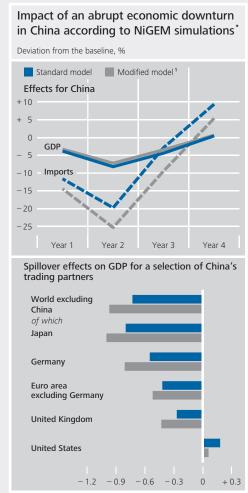
The international spillover effects of a potential sharp downturn in China triggered by a crisis in the country's financial system have already been analysed in numerous studies. There are also macroeconomic model-based studies looking at the repercussions specifically for Germany and for the euro area. 1 These tend to investigate the consequences of a general demand shock in China. In the past, in other countries where periods of excessive credit growth have culminated in financial crises, it has been investment activity which has taken a particular hit, however. Investment growth in the affected countries dropped by an average of 12 percentage points, whereas private consumption growth slowed by an average of 3 percentage points.2

The fact that investment and consumption react differently is important in terms of external knock-on effects since, in general, investment is characterised by a higher import intensity than private consumption — and this holds true in the case of China, too.³ As a result, a decline in investment would be channelled to foreign markets to a greater degree than the same size drop in private consumption. Studies positing simply a generalised reduction in domestic demand in China are therefore likely to underestimate spillover to other countries.

In the NiGEM global economic model,⁴ which will be used for the following simula-

tions, imports are influenced by a country's aggregate demand. It therefore makes no difference whether a shock affects certain demand components to different degrees. It is only by adapting the model that differences in the import content of the individual expenditure components can be factored in.⁵ The respective (country-specific) import intensities were estimated on the basis of data from the World Input-Output Database (WIOD).⁶

- 1 These include Deutsche Bundesbank, The international ripple effects of a severe economic slowdown in China, Monthly Report, July 2015, pp 29-30 and A Dieppe, R Gilhooly, J Han, I Korhonen and D Lodge (2018), The transition of China to sustainable growth implications for the global economy and the euro area, ECB Occasional Paper No 206.
- **2** Based on a sample of 35 periods of excessive debt build-up in emerging markets and advanced economies between 1960 and 2010, identified using a country-specific threshold factoring in the variance of the normal credit cycle. See A Abiad, M Lee, M Pundit and A Ramayandi (2016), Moderating growth and structural change in the People's Republic of China: implications for developing Asia and beyond, ADB Briefs No 53, and E Mendoza and M Terrones (2012), An anatomy of credit booms and their demise, NBER Working Paper 18379.
- **3** See M Bussière, G Callegari, F Ghironi, G Sestieri and N Yamano (2013), Estimating trade elasticities: demand composition and the trade collapse of 2008-2009, American Economic Journal: Macroeconomics, 2013, 5(3), pp 118-151.
- 4 NiGEM is a macroeconometric model developed by the UK-based National Institute of Economic and Social Research (NIESR). It includes most of the OECD countries as well as important emerging economies. International linkages are modelled through foreign trade and the interest rate-exchange rate nexus. For further information on the model structure, see https://nimodel.niesr.ac.uk
- **5** See M Jorra, A Esser and U Slopek (2018), The import content of expenditure components and the size of international spillovers, National Institute Economic Review, 244, pp R21-R29.
- 6 The WIOD datasets allow intermediate inputs to be captured across national borders and individual sectors' supply to be broken down by end-use categories. In this way, an import share can be determined for each expenditure component. Calculations are based on the 2016 release available at www.wiod.org. See M Timmer, E Dietzenbacher, B Los, R Stehrer and G de Vries (2015), An illustrated user guide to the World Input-Output Database: the case of global automotive production, Review of International Economics, 23(3), pp 575-605.



Source: Bundesbank calculations using NiGEM (Version 4.17). * Shocks to growth rates of Chinese investment (-12 percentage points) and private consumption (-3 percentage points) persisting for two years. Rules-based monetary policy assumed. 1 Modified model takes into account differences in the import content of the individual expenditure components.

Deutsche Bundesbank

For a simulation with the adjusted model, the analysis uses shocks to investment and private consumption in China corresponding to the above-mentioned historical values for other countries with financial crises.7 It is assumed that, in the medium run, both variables return to the path originally laid out. In the simulation, the Chinese economy therefore experiences a substantial slowdown in growth. In the first two years of the shock, real gross domestic product (GDP) growth contracts to an average of just 2%. This means that China's economic output undershoots the baseline by 7% in the second year. In the same period, China's import volume falls short of

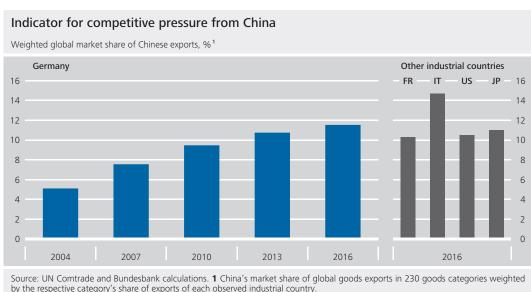
the baseline by as much as one-quarter. The relatively high sensitivity of imports to the downturn in investment is a key factor here: in a simulation using the standard version of NiGEM, imports decline by just one-fifth.

Using the adapted model, this simulation thus yields spillover effects which – averaged across all trading partners – are around one-third higher. Germany's real GDP drops markedly against the baseline, by 0.8% after two years, compared with just under 0.6% in the standard model. Both variants of the model show Germany experiencing greater output losses than other euro area countries. This is due, in particular, to the German economy's very high degree of export exposure to China.8

It should be noted that even the adapted model could still underestimate international spillover. The simulations assume a practically stable Chinese currency throughout the downturn, yet if such a situation were to see a significant depreciation of the renminbi, the repercussions for China's trading partners would probably be even greater. Likewise, the simulation does not account for a global loss of confidence among economic agents, in particular in the financial markets, triggered by a crisis in China.

⁷ However, there are certain circumstances applying to the Chinese economy that make it conceivable that a crisis might have milder effects than those observed in other countries. For instance, the Chinese authorities could well have at their disposal more effective means for stimulating demand than other emerging markets.

8 As a percentage of nominal GDP, Germany's goods exports to China last year amounted to 2.6%, compared to an average of 1% for other euro area countries.



by the respective category's share of exports of each observed industrial country Deutsche Bundesbank

countries in third markets. A simple metric can be used to systematically capture the competitive pressure exerted by China on the exporters of individual countries. China's global market share of exports in 230 goods categories is calculated34 and weighted by the respective category's share of exports of the observed industrial country. In all of the industrial countries surveyed, the degree of competition measured using this method has risen continuously since 2004. According to the indicator, competitive pressure on Germany from China in 2016 was at a similar level to other industrial countries.

Competitive pressure from China could rise over the coming years for the German economy in particular.35 This is due in part to the fact that current Chinese industrial policy is largely focusing on sectors in which German companies have a strong global market presence. In the automotive sector in particular, there could be considerably more friction between German and Chinese companies. So far, China has only reached a global market share of 41/2% for such exports (mainly automotive parts). As part of the "Made in China 2025" action plan, however, the development of the electric vehicle sector is being massively promoted. The domestic market is seeing strong growth and is already dominated by Chinese models.36 In the medium term, large-scale exports of electric vehicles from China may also be expected.

Conclusion

With China's previous growth model increasingly hitting its limits, the Chinese government is aiming to create a new foundation for the country's economic catching-up process. On the supply side, the transformation is being accompanied by improving technology in industry and a growing significance of the services sector. On the demand side, forces are shifting from exports and investment to consumption.

Realignment of growth model has begun ...

... could rise over comina years for Germany in particular

³⁴ The goods categories used correspond to the chapters (two-digit) of the United Nations Harmonized Commodity Description and Coding System (HS). The two most significant chapters for Chinese exports - 84 (machinery and mechanical appliances) and 85 (electrical machinery and equipment) - were broken down even further.

³⁵ German enterprises operating in China are already reporting significantly increased competitive pressure from Chinese companies in recent times. See German Chamber of Commerce in China (2017), German Business in China Business Confidence Survey 2017/18.

³⁶ Around half of the 1.2 million electric vehicles sold worldwide in 2017 were sold in China. Of those, the share of foreign models is, at 4%, extremely low. See Germany Trade and Invest, Elektromobilität VR China: Die Weichen sind gestellt, https://www.gtai.de/GTAI/Navigation/DE/ Trade/Maerkte/suche, t=elektromobilitaet-vr-china-dieweichen-sind-gestellt, did=1883192.html

... but some aspects could lead to conflict In order to support the structural change, the Chinese authorities are already implementing important reforms in a number of areas. Partner countries have been critical of certain political measures, particularly in industrial policy, with some, such as the United States, also using them as justification for their own trade policy measures. Against this backdrop, further improving the general environment for innovation as well as continuing to push the Chinese economy to open up to foreign investment - something that has been neglected in recent years - would be less contentious and also probably more beneficial from a macroeconomic standpoint.

For the German economy, the transformation Transformation in China is likely to have wide-ranging implications. If a realignment of the growth model is successful and China continues to catch up at a rapid pace, German exporters may be presented with excellent market opportunities in the future, too. At the same time, however, it is expected that competitive pressure from China will also rise. In the coming years, it is precisely German enterprises that could feel the effects.

in China presents opportunities and risks for German economy

Trends in the financing structures of German non-financial corporations as reflected in the corporate financial statements statistics

The funding structures of German non-financial corporations have changed discernibly since the turn of the millennium. From a longer-term perspective, the strong increase in intra-group liabilities and the declining importance of trade credits are striking, as are the trends towards convergence in terms of both higher equity ratios and lower bank debt ratios. The effects are partly the result of macroeconomic trends such as the internationalisation of the German economy and the creation of complex value chains. On balance, the German non-financial corporations sector has seen a considerable across-the-board improvement in its financial viability and hence its resilience to exogenous shocks.

Based on a microdataset from the Bundesbank's corporate financial statements statistics, the results show that the trend among non-financial corporations towards strengthening their own funds base continued between 2010 and 2015. The marked observable differences in the past in the equity ratios according to sector and size category have decreased significantly. In addition, there was a marked reduction in bank loans and trade payables during the observation period. At the same time, particularly small and medium-sized enterprises as well as non-affiliated enterprises saw an expansion of liquidity reserves on the asset side of their balance sheets. This could be interpreted as losses of flexibility in short-term funding in some segments of the corporate sector being offset by increased holdings of cash. Intra-group financing, which has now emerged as the second most important source of funding for non-financial corporations, continues to make advances. In this context, the funds are often raised by group financing companies on the international financial markets in the form of syndicated loans and securities issues.

Changes in the underlying economic and financial conditions as a challenge for corporate financing

Increase in equity ratio since late 1990s

Since the turn of the millennium, there have been marked changes in the underlying economic and financial conditions for German non-financial corporations. This has also left a lasting mark on how enterprises make decisions on the nature and structure of funding. Besides shifts in debt financing, it has been chiefly the strengthening of the own funds base that has been striking. After the German corporate sector was deemed to be undercapitalised by international standards in the late 1990s, within a period of ten years, nonfinancial enterprises had increased their equity ratio by 5 percentage points on average to 25% in 2008.1 The associated strengthening of financial resilience in conjunction with other measures was a key prerequisite for German enterprises emerging unharmed from the "endurance test" provided by the severe recession in the fourth quarter of 2008 and the first guarter of 2009, without reduced output in the medium to long-term and protracted job losses.

Return to decent earnings level after recession As global demand bounced back in 2010 and 2011, German enterprises returned relatively swiftly to the decent level of profitability of the pre-crisis period. Initially, the crisis-induced adjustments in the balance sheets, which focused mainly on safeguarding liquidity, were gradually reduced. Moreover, the underlying trends in corporate funding from the pre-crisis years have persisted into the current decade. For example, equity capital now makes up an average of 30% of non-financial corporations' total assets.

Evaluations based on balanced sample of enterprises ... Possible explanations for the ongoing strengthening of the equity base and the interaction with other funding-related developments are discussed below. This is based on empirical analyses using granular data from the Bundesbank's financial statement statistics between

2000 and 2015. Balanced samples of enterprises for which annual accounts are available at the beginning and the end of each observation period are formed. This is done to ensure that the observed changes in the balance sheet items are due to economic effects and not to changes in the composition of the sample. However, in return, it has to be accepted that representativeness is limited to a certain extent.

In a first step, there is an examination of the hypothesis of whether the development in the current decade towards higher equity ratios and lower bank debt ratios can be regarded as part of an ongoing convergence process since at least the end of the 1990s. This implies the notion that the extent of the adjustments depends on the company-specific starting points in terms of the two balance sheet variables. Heterogeneity in the corporate sector may be explicitly taken into consideration through distribution analyses and microeconometric studies.

... to analyse longer-term convergence trends in equity and bank debt ...

In a second step, changes in the funding structure during the period from 2010 to 2015 are examined in the context of the balance sheet. In this regard, it is worth taking a look at individual sectors or enterprises of different size categories and legal forms. The disaggregated analysis is also linked to the fact that the economic upturn since 2010 has been based more strongly on domestic forces of growth than the expansionary phase between 2003 and 2008. Most recently, for example, construction, trade and some services sectors experienced a comparatively strong economic tailwind, which helped make balance sheet adjustments that had been carried out mainly by industrial enterprises in the more strongly export-led upswing of the previous decade.

The funding patterns in the current decade also reflect changes in the underlying financial con-

... and changes in financing structures between 2010 and 2015 ...

¹ See Deutsche Bundesbank, Extrapolated results from financial statements of German enterprises 1997 to 2016, Special Statistical Publication 5, December 2017.

... against the backdrop of new financial conditions

ditions. Given exceptionally low lending rates, the sustained trend towards reducing the share of liabilities to credit institutions in total assets can only be explained in the context of additional key determinants such as the financial implications of the internationalisation of the German economy and the creation of value chains, especially as credit supply-driven constraints beyond the point when the financial crisis reached its peak are unlikely to have hurt the greater part of the German corporate sector to a major extent.2 Specifically, the evaluations indicate that the increase in intra-group liabilities³ in the corporate balance sheets may be attributable not only to operational processes but also, to a large extent, to funding operations in the international financial markets.

German enterprises' financing behaviour from a longer-term perspective

Longer-term trends in enterprises' financing behaviour The financing behaviour of German nonfinancial corporations in terms of their balance sheets since the turn of the millennium is essentially characterised by four trends.⁴

- Sustained strengthening of the equity capital base
- Substantial reduction in bank debt
- Declining funding opportunities from suppliers
- Strong expansion of intra-group liabilities

The considerable growth rate of intra-group liabilities (and, in parallel with them, the corresponding claims) is related to trend factors in the real economy, such as the creation of value added processes based on the division of labour⁵ and the increasing internationalisation of the German economy, ⁶ as well as the deployment of group financing companies to raise funds in the international financial markets.

The existence of trends towards convergence in terms of a higher equity ratio and a lower bank debt ratio suggests that the corporate sector's financial resilience and, hence, internal capital adequacy has increased across the board. Studies on the longer-term adjustment processes, the scale of which depends on the company-specific starting positions, are based on a balanced sample of around 15,600 enterprises for which balance sheet data are available for 2000 and 2015. For this purpose, the enterprises are grouped into deciles according to their equity ratio or bank debt ratio in 2000.

Analysis of trends towards convergence based on balanced samples of enterprises ...

As the chart at the top of the next page shows using the decile-specific medians, the increase in the equity ratio between 2000 and 2015 tended to be all the stronger, the lower the starting level was. Furthermore, there were striking developments at the borders of the distribution. Thus, the median of the enterprises in the lowest decile increased from negative territory to 16% in 2015. By contrast, the enterprises in the highest decile slimmed down their comparatively generous equity base somewhat in 2000.

... in terms of the equity ratio ...

Convergence trends were even more pronounced regarding the bank debt ratio. In the chart at the bottom of the next page this can be seen, for instance, by the fact that the gap

... and regarding the bank debt ratio

- 2 See Deutsche Bundesbank, Developments in corporate financing in the euro area since the financial and economic crisis, Monthly Report, January 2018, pp 53-71.
- **3** Recorded on the liabilities side, these are liabilities to affiliated enterprises as well as liabilities to other long-term investees and investors.
- 4 The development of financing structures in the first decade of the 21st century has already been the subject of earlier Bundesbank analyses. See, for example, Deutsche Bundesbank, Long-term developments in corporate financing in Germany evidence based on the financial accounts, Monthly Report, January 2012, pp 13-27; and Deutsche Bundesbank, Capital base of non-financial enterprises in Germany sustainably strengthened, Monthly Report, December 2013, pp 44-26.
- **5** See Deutsche Bundesbank, The German economy in the international division of labour: a look at value added flows, Monthly Report, October 2014, pp 27-42; and Deutsche Bundesbank, Structure and dynamics of manufacturing production depth as reflected in the financial statements of German enterprises, Monthly Report, June 2016, pp 56-58.
- **6** See Deutsche Bundesbank, The impact of the internationalisation of German firms on domestic investment, Monthly Report, January 2018, pp 13-26.

Comparison of non-financial corporations' equity ratios in 2000 and 2015'

as a percentage of total assets, decile group medians

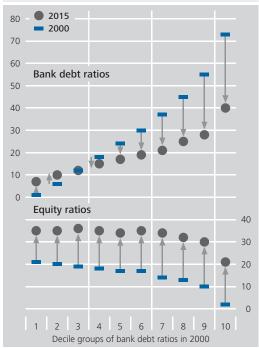


* Balanced sample of 15,582 enterprises. Deutsche Bundesbank

between the medians of the first and tenth deciles more than halved from 72 percentage points in 2000 to 32 percentage points in 2015.7 The degree of downward adjustment also tended to be all the greater, the higher the debt ratio was in 2000. Moreover, the hypoth-

Convergence in the equity and bank debt ratios of non-financial corporations between 2000 and 2015

as a percentage of total assets, decile group medians



* Balanced sample of 12,615 enterprises Deutsche Bundesbank

esis of a convergence process is additionally supported by the fact that the fifth of enterprises with the lowest initial values slightly increased bank liabilities as a percentage of total assets in the period under review.

Looking at the equity ratios in the period from 2000 to 2015 in the deciles grouped by the bank debt ratio, it is possible to discern substantial increases in all group-specific medians. In addition, the medians for all groups except the decile of enterprises with the highest debt ratio were in the quite narrow range of an equity ratio between 30% and 35%, whereas the starting positions in 2000 had been spread a great deal more widely. Furthermore, the findings of the distribution analysis underline the fact that the size of the equity ratio was clearly negatively correlated with the share of bank liabilities in total assets at the time. First, the enterprises which counted among the 10% with the highest bank debt ratios in 2000 had considerably increased their equity ratios from a very depressed level by 2015, but failed to match the level of the other enterprises with a median of just over 20%. Second, the enterprises in this decile reduced their bank debt more than others.

Equity ratios

now hardly

bank debt

correlated with

Further indications of equity and bank debt converging - each in relation to total assets are provided by microeconometric studies of convergence hypotheses, which are taken from empirical research into growth and development economics (see the box on page 62).

Convergence trends also confirmed by convergence tests

Capital structures in the non-financial corporations sector from 2010 to 2015

In order to shed some light on the question of what changes occurred in the structural fund-

7 Around 20% of the enterprises in the balanced sample show no bank liabilities in their balance sheets in 2000. The analyses based on the decile groups sorted by bank debt ratio are therefore supported by a sample of around 12.600 enterprises.

... especially

enterprises, ...

in the case

of small

Study of the structural financing patterns based on financial statement data from 2010 and 2015, ... ing patterns of German non-financial corporations once they had recovered from the severe recession of the final quarter of 2008 and the first quarter of 2009, we analyse balance sheet data of a balanced sample of around 39,000 enterprises for which financial statement statistics are available for 2010 and 2015.

... which account for more than 50% of the total turnover of all enterprises The enterprises included in the study account for more than 40% of the financial statements used in the extrapolated data in the corporate financial statement statistics. With regard to overall turnover, which is recorded for all enterprises by the Federal Statistical Office, the compiled dataset for 2015 represents a share of more than 50%. Clearly underrepresented, above all, are small enterprises at just under 7%, compared with large enterprises at 68%.8 Owing to the high degree of correlation between the two corporate characteristics, this also applies, albeit to a lesser extent, to the coverage of non-affiliated enterprises (34%). Of the aggregated economic sectors, only construction has a particularly unfavourable coverage at just under 24%. On the whole, however, for an empirical study based on microdata, the analysis has a relatively comprehensive database.

Equity

Distinct increase in median values of equity ratio between 2010 and 2015 ...

The results of the study clearly show that the non-financial enterprises from the balanced sample further increased their stocks of equity capital in the period from 2010 to 2015. According to the median values, the equity ratio rose during the observation period by more than 5 percentage points from 24.2% to 29.4% of total assets (see the table on page 64). By contrast, based on the arithmetic mean, there was only a minor increase from 31.9% to 32.4%. This shows that large enterprises have, in the past few years, been significantly more restrained in increasing their liabilities by raising new funds, while some enterprises have even reduced their liabilities.

A size-category-specific analysis of movements in equity ratios confirms this finding. In the five years up to 2015, small enterprises increased their equity capital based on the median from 21.7% to 28.3% of total assets, ie by more than 6.5 percentage points. Somewhat less marked was the increase in liable funds in the case of medium-sized enterprises, where the ratio went up from 26.1% to 30.6% during the period under review. In the case of large enterprises, the equity ratio in the median was boosted by no more than 2.6 percentage points to 29.8%.

The results thus show that the earlier clear gap between the equity ratios of small and large enterprises in the non-financial corporations sector in Germany has now largely disappeared. The group of medium-sized enterprises, in fact, currently stands at the top of the non-financial corporations sector's equity pyramid.

... as a result of which the gap in equity financing to larger enterprises has virtually disappeared

Such a convergence of equity ratios cannot be seen in the breakdown of enterprises by legal form, however. The median equity capital of corporations saw dynamic growth, rising from 28.0% to 34.2% of total assets. While the liable capital of non-corporations also grew over the five-year observation period, the ratio went up by no more than 2.1 percentage points, meaning that — measured by the median — non-corporations' equity ratio in 2015, at 17.1%, was exactly half of the figure for corporations, and that remaining disparities in the en-

Still major disparities between the equity bases of corporations and noncorporations ...

- 8 Enterprises are grouped into size categories based on their turnover. In line with the classification recommended by the EU, small enterprises have a turnover of below €10 million, medium-sized enterprises have a turnover of between €10 million and below €50 million, and large enterprises have a turnover of €50 million and more.
- **9** In this report, the term "arithmetic mean" always refers to the arithmetic mean weighted by total assets, which takes account of the differing sizes of enterprise; at the same time, the ratios are in relation to total assets.
- 10 While the extrapolated results of the Bundesbank's financial statement statistics are generally presented as weighted arithmetic means, this particular study chiefly uses (unweighted) median values. These are much less prone to outliers and are not determined by the recognisable size effects in the cross-sections, which represents a greater robustness in statistical terms.

Microeconomic findings on the convergence of non-financial corporations' equity and bank debt ratios in the period from 2000 to 2015

The concepts of beta and sigma convergence are well known from the empirical literature on convergence processes in growth and development economics.1 Generally, these are statistical parameters indicating that, for a large number of observation units, the path of a variable over time may be interpreted as an adjustment process towards a standardising target value. The econometric verification manages without the specification of the target value. In the case under consideration, the observation units are those 15,600 enterprises for which balance sheet data are available for 2000 and 2015. The presence of convergence is investigated here for the equity ratio and bank debt ratio.

Beta convergence characterises an adjustment that takes place all the more quickly, the smaller the initial value is. Given a very high level at the beginning, a reduction should occur. In the case of equity ratios, the upward movement is likely to dominate, whereas the bank debt ratios are predominantly adjusted downwards. Irrespective of the main direction of movement, the test for beta convergence is based on the following regression:

$$\Delta x_i^{2000/2015} = \alpha + \beta x_i^{2000} + \epsilon_{i'}$$

where $\Delta x_i^{2000/2015}$ is the change in the balance sheet ratio of enterprise i under consideration between 2000 and 2015, x_i^{2000} is the balance sheet ratio of 2000, α is a constant and ε_i the error term.

Using the simple ordinary least squares method (OLS), β is estimated at -0.60 in the case of the equity ratio and at -0.63 for the bank debt ratio. As the standard errors of the coefficient estimates each stand at 0.01, the condition for the presence of beta convergence (β <0) is fulfilled. Estimating the model, for the purpose of a robustness check, also using the LAD method,² produces results of

-0.48 and -0.52 respectively, which are of a similar magnitude.

Sigma convergence, in this context, refers to the narrowing of the dispersion of the equity ratios and bank debt ratios respectively between 2000 and 2015. Beta convergence is a necessary, but not sufficient, condition for sigma convergence. It is for that reason that this criterion is additionally investigated. Moreover, a distinction is to be made between an absolute narrowing of the dispersion as measured, for instance, by the standard deviation, and a reduction in the dispersion relative to the mean value, expressed, for example, by the coefficient of variation.

In the case of the equity ratio, the standard deviation increased slightly from 26 percentage points to 28 percentage points between 2000 and 2015. Given the fact that there was a sharp rise in the mean value during this period, the coefficient of variation decreased substantially from 1.5 to 0.9. As a result, the dispersion of the own funds ratio declined in relative terms rather than in absolute terms. The opposite is true of the bank debt ratio. In this case, the standard deviation declined from 26 percentage points to 22 percentage points between 2000 and 2015. However, the sharply reduced mean value during this period led to an increase in the coefficient of variation from 0.8 to 1.1.

¹ For further information, see, for example, X Salai-Martin (1996), The classical approach to convergence analysis, Economic Journal, 106, pp 1019-1036, and A Young, M Higgins and D Levy (2008), Sigma convergence versus beta convergence: Evidence from US country-level data, Journal of Money, Credit and Banking 40, 5, pp 1083-1093.

² The LAD estimate is based on the absolute deviations being minimised (least absolute deviation: LAD). As these are amount-related deviations, the estimation results are typically more robust to outliers than in the case of minimum square deviations. With regard to the distribution of residuals in the regressions, this property proves to be an advantage.

terprises' equity bases in fact became even larger.

... due to different liability rules

Differing statutory liability rules are a key factor affecting persistent legal form-specific differences in the provision of enterprises with own funds. Whereas only the equity capital and any additional collateral provided can be drawn on in the event of a corporation's bankruptcy, in the case of non-corporations, the company owner's liability is unlimited and includes all personal assets. The equity holdings in the balance sheet therefore lose their importance as the sole measure of the amount of liable capital as well as for the acquisition of funds.¹¹

Lower equity bases in the case of group enterprises given ability to obtain funds centrally within group The results also suggest that enterprises which are structured as group enterprises in an economic and organisational sense normally have a lower equity base than those that are not affiliated with a group, although it was possible to derive this enterprise characteristic in the present study only indirectly from the existing balance sheet data. 12 In groups, funds are often obtained centrally through the parent company, a holding company or a special financing company. In this way, the management of intra-group financing needs is optimised and the financial autonomy of groups vis-à-vis banks is strengthened.¹³ According to the results obtained from the present study, nonaffiliated enterprises saw relatively large increases in their equity ratios in the observation period; in the median, they rose relatively sharply from a comparatively low level of 22.7% to 30.3%. The level and dynamics of capitalisation at affiliated enterprises, on the other hand, were significantly lower, with the ratio only rising from 24.8% to 28.9%.

Structural analysis confirms the increase in equity capital in large segments of the non-financial corporate sector, ...

The trend towards a further increase in equity and a levelling of the differences in equity ratios can also be seen if the results are broken down by economic sector. In the manufacturing sector, the median values increased from 29.3% to 33.9%; in energy and water, the figure went up from 28.2% to 35.8%; and there was a similar development in wholesale and retail trade,

with a rise from 24.6% to 29.6% (with corresponding increases in their mean values). Thus, equity ratios of just over 30% on average are now the norm in large segments of the non-financial sector.

One exception is construction, which traditionally has low equity ratios. The results show that the liable capital situation in this sector, which has been strained for many years, saw a further marked improvement during the observation period, which is evidently due to the rebound in construction activity since 2010 and resulting growth in profitability. Over the five years observed, the increase in equity ratios was relatively clear, with the median climbing from 14.0% to 18.4%. However, this means that they are still just over one-third below the comparable figures of the other sectors. 14 The weak capitalisation of the construction industry is partly related to its operational structure, as most construction firms are owner-operated small and medium-sized enterprises with the legal form of non-corporations, 15 and hence they generally hold less equity capital for liability purposes. 16 Furthermore, statistically, advance payments are usually fairly high in the

... with equity ratios in the construction sector still just over one-third below those of other sectors

- 11 See Deutsche Bundesbank, Verhältniszahlen aus Jahresabschlüssen deutscher Unternehmen von 2014 bis 2015, Special Statistical Publication 6, May 2018, p 6.
- **12** Enterprises are classified as affiliated with a group if data are reported for at least one of the asset or liability items relating to participating interests or affiliated companies.
- 13 See H Friderichs, Unternehmensanalyse im Zeichen zunehmender Internationalisierung der deutschen Wirtschaft, Wirtschaftsdienst, Vol 94, No 11, November 2014, pp 11ff. 14 The results for the services sector buck the trend somewhat, as the median values here indicate a strong increase from just 21.5% to 26.1%, while the arithmetic means even suggest a decline from 38.2% to 36.2%, with the latter very clearly reflecting particular developments in the case of large enterprises.
- **15** In 2011, just over two-thirds of all operations in the construction sector were registered as a sole proprietorships. See Federal Institute for Research on Building, Urban Affairs and Spatial Development, Konsequenzen veränderter Finanzierungsbedingungen für die Bauwirtschaft, Bonn, 2016. p 15.
- **16** According to the extrapolated data from the corporate financial statement statistics, non-corporations in the construction sector recorded an equity ratio of just under 11% in 2015, while the equity capital of corporations as a percentage of total assets was almost twice as high.

Developments in non-financial corporations' equity capital*

As a percentage of total assets

	2010		2015	
Classification	Median	Weighted average	Median	Weighted average
All enterprises	24.2	31.9	29.4	32.4
By turnover size category Less than €10 mn	21.7	28.7	28.3	33.8
€10 mn to less than €50 mn €50 mn or more	26.1 27.2	33.4 31.9	30.6 29.8	36.5 32.0
By economic sector Manufacturing	29.3	31.7	33.9	31.7
Electricity and water supply and waste manage- ment	28.2	29.9	35.8	33.9
Construction	14.0	16.2	18.4	18.5
Wholesale and retail trade and repair of motor vehicles and motorcycles	24.6	27.5	29.6	31.3
Service activities ¹	21.5	38.2	26.1	36.2
By group affiliation Affiliated Not affiliated	24.8 22.7	31.9 32.0	28.9	32.3 38.5
By legal form Corporations Non-corporations	28.0 15.0	32.8 25.8	34.2 17.1	33.4 25.9

^{*} Mining and quarrying; manufacturing; electricity and water supply and waste management; construction; wholesale and retail trade; and service activities. Results of the two-year balanced sample for 2010 and 2015. 1 Transportation and storage; accommodation and food service activities; information and communication; and business service activities.

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construction sector, which has the effect of squeezing the equity ratio.¹⁷

Bank debt

Lower bank debt ratio Bank debt as a percentage of total assets ran counter to the trend in equity ratios in the period under review. According to the results obtained here and based on median values, the debt ratio vis-à-vis credit institutions fell from 9.1% in 2010 to 7.6% in 2015. In the case of average values, the decline given similar sizes was significantly lower, however, at only 0.4 percentage point (see the table on page 65). The scale on which debt to credit institutions was reduced, though, is especially visible when the results are broken down by the maturity of the loans. Over the five-year observation period, short-term bank debt (with a residual maturity of up to one year), showed a further fall from a very low level of 1.9% to 1.6% of total assets. 18 Based on mean values, by contrast, it increased slightly to just under 3%, however, mainly because of the financial operations of enterprises not affiliated with a group. With regard to long-term bank debt, the median was close to zero in both years, while the average values, which are strongly influenced by large enterprises, showed a further decline in the ratio from 5.5% to 5.1%. The vast majority of enterprises were thus increasingly allowing their long-term bank loans to expire in the period under review.

Despite these declining trends in bank debt, the present study findings also make it clear that bank loans still play an important role for a considerable number of enterprises in the nonfinancial corporate sector. Small and mediumsized enterprises, in particular, still rely quite heavily on bank loans for their funding; the bank debt ratios for small firms, based on the median, came to 13.5% in 2010 and 12.2% in 2015. The corresponding figures for mediumsized enterprises were 7.5% in 2010 and 6.1% in 2015. Another thing that stands out is the fact that firms operating in wholesale and retail trade and firms which are not affiliated with a group make substantial use of bank loans, which is especially true of short-term loans, but also of long-term funding operations through credit institutions in some cases. Here, the conditions have remained relatively stable over the past five years, with only minor declines of around 1 percentage point in each year.

Importance of bank loans dependent on enterprises' size and group affiliation

Trade credit

The observable broad-based decline in trade payables as a percentage of total assets is also similarly apparent in the corresponding claims Decline in trade payables and receivables

17 Since gross figures are used in the statistics to ensure consistency of measurement, any outstanding advance payments against assets are reported on the liabilities side in the individual financial statements. This leads to an increase in total assets and thus reduces the equity ratio.

18 The low median ratio values relative to the ratio for total liabilities to banks broken down by maturity stem from the fact that, for many enterprises, only either the short-term or the long-term value is recorded, meaning that the aggregate value produces a different distribution.

on the assets side of the balance sheet. The scope for borrowing from suppliers, as measured by the median, was reduced quite noticeably in the observation period, with a fall in the ratio from 8.8% to 7.0%. The associated restriction of inter-company funding between enterprises mainly affects smaller enterprises, wholesale and retail traders (where this form of short-term funding traditionally plays a major role) and enterprises not affiliated with a group. Based on the median, these areas consistently recorded declines of between 2 and 3 percentage points in this respect. Survey findings suggest that the decline in trade credit might partly be connected with enterprises' heightened risk sensitivity in the wake of the financial and economic crisis, which may have led to a sustained reduction in collection periods and have significantly curtailed enterprises' short-term funding through suppliers.19

Intra-group liabilities

Increase in liabilities to affiliated companies, especially at large enterprises ...

Finally, the present study shows that there was a steep rise in intra-group liabilities during the reporting period. Viewed as a whole, these are now the second most important source of funding for non-financial corporations in Germany after equity capital. The ratio for intragroup liabilities went up from an average of 16.8% in 2010 to 19.8% in 2015,²⁰ with the increase in liabilities to affiliated companies being particularly concentrated on large enterprises.²¹

... partly because of the development of global value chains Under German balance sheet legislation, intragroup liabilities include not only financial obligations from intra-group relations, but also trade payables in the context of group affiliates. The sharp growth in intra-group items cannot therefore be attributed solely to the increasing importance of intra-group funding sources. Rather, the construction of global value chains and networks provides a further explanation.

Developments in non-financial corporations' liabilities*

As a percentage of total assets

	2010		2015	
Classification	Median	Weighted average	Median	Weighted average
Liabilities to banks of which	9.1	8.4	7.6	8.0
Short-term Long-term	1.9 0.0	2.8 5.5	1.6 0.0	2.9 5.1
By turnover size category				
Less than €10 mn €10 mn to	13.5	26.0	12.2	22.6
less than €50 mn €50 mn or more	7.5 1.3	17.2 7.1	6.1 0.3	15.8 6.8
By group affiliation Affiliated Not affiliated	7.0 14.5	8.1 21.3	5.4 13.2	7.7 18.9
Trade payables By turnover size category	8.8	6.8	7.0	6.3
Less than €10 mn €10 mn to	9.1	10.1	6.9	8.5
less than €50 mn €50 mn or more	8.7 8.1	9.4 6.4	7.2 6.9	8.2 6.1
By group affiliation Affiliated Not affiliated	8.0 11.5	6.6 12.1	6.6 8.4	6.2 10.6
Liabilities to affili- ated companies	0.0	16.8	0.0	19.8

* Mining and quarrying; manufacturing; electricity and water supply and waste management; construction; wholesale and retail trade; and service activities. Results of the two-year balanced sample for 2010 and 2015.

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- 19 See in this connection the surveys of Creditreform for European countries, most recently: Creditreform, Corporate insolvencies in Europe, 2014/15. According to these results, collection periods in Europe have declined sharply in recent years, although the implementation of the EU Late Payment Directive of 2011 is likely to also have played a part in some countries. Even in Germany a country which, owing to the accompanying legal provisions for trade credits with comprehensive reservation of ownership rights, already has by far the lowest collection periods in Europe collection periods have fallen since 2007.
- 20 In this context, it should be borne in mind that the funding shares of these items stem mainly from syndicated loans as well as short and long-term securities issuance, which are often obtained through special group-specific financing companies on international credit, money and capital markets. These cross-border bank and capital market-based funding processes can only be seen in group balance sheets, however. In this respect, the disintermediation of German non-financial corporations is actually considerably less advanced than the individual financial statement data might suggest.
- 21 Many smaller enterprises have no intra-group liabilities, which means that the median values are zero in these cases. For this reason, the more meaningful average values are used here instead.

Developments in non-financial corporations' cash holdings*

Cash balances and bank deposits as a percentage of total assets

	Enterprises in the					
	bottom half of to criterion	the distribution according		top half of the distribution according to criterion		
Grouping criterion	2010	2015	Change between 2010 and 20151	2010	2015	Change between 2010 and 2015 ¹
Short-term liabilities to banks in 2015						
Total	8.2	10.5	2.4	2.9	2.9	- 0.1
By turnover size category Less than €10 mn €10 mn to	11.3	15.9	4.6	3.0	3.0	0.0
less than €50 mn €50 mn or more	7.1 3.8	8.9 3.6	1.8 - 0.2	3.1 2.5	3.0 2.2	- 0.1 - 0.3
By group affiliation Affiliated Not affiliated	5.9 15.2	7.5 19.4	1.5 4.2	2.6 3.5	2.5 3.7	- 0.1 0.2
Trade payables in 2015						
Total	5.7	6.9	1.2	3.9	4.3	0.4
By turnover size category Less than €10 mn €10 mn to	6.8	9.2	2.4	4.4	5.1	0.7
less than €50 mn €50 mn or more	5.4 3.5	6.3 2.9	0.9 - 0.6	3.7 2.8	4.0 2.7	0.3 - 0.2
By group affiliation Affiliated Not affiliated	4.7 8.9	5.2 12.2	0.6 3.3	3.2 5.5	3.3 6.4	0.2 0.9

^{*} Mining and quarrying; manufacturing; electricity and water supply and waste management; construction; wholesale and retail trade; and service activities. Results of the two-year balanced sample for 2010 and 2015. 1 In percentage points.

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Interaction between enterprises' short-term debt and their cash holdings

Increase in cash holdings in order to safeguard liquidity ... All other things being equal, a reduced level of short-term bank and trade credits might imply a loss of flexibility with regard to short-term funding options. Enterprises are in a position, however, to protect themselves against the associated refinancing risks by increasing their cash holdings and bank deposits.22 The extrapolated data from the corporate financial statement statistics indicate a slight tendency towards increased cash holdings, with cash holdings and bank deposits as a percentage of total assets amounting to just over 7% in 2016. Following a temporary decline in the first few years of the current decade, the ratio thus returned to the heightened level it had reached in 2009 and 2010 in order to safeguard liquidity as a result of the recessionary phase of the financial and economic crisis.

In order to establish more accurately that enterprises which were supporting fewer of their funding needs through short-term debt positions had been tending to increase their cash holdings in the preceding years, the balanced sample based on the median short-term liabilities to banks in 2015 or short-term trade payables is split into a lower and an upper category (see the table above). While enterprises that showed larger percentages of short-term debt items in their balance sheets in 2015 altered their liquidity holdings hardly at all or only moderately between 2010 and 2015, the enterprises with corresponding ratios below

... as short-term debt positions are reduced ...

²² For more information on the transmission mechanism in the context of categorising alternative funding strategies (bank-oriented versus autonomous), see, for example, J Hicks, The Crisis in Keynesian Economics, Oxford, 1974, pp 50 ff. According to this theory, as long as they have sufficient working capital loans and other short-term loans at their disposal, companies need not maintain their own liquidity buffers internally in the form of cash holdings and bank deposits.

0.

the median recorded an above-average increase in their cash holdings during this period.

The link between short-term debt positions and cash holdings is more pronounced in the case of small and medium-sized enterprises as well as enterprises not affiliated with a group, as they have limited options for securing liquidity through other channels, such as through group affiliates, when needed. For example, small enterprises with lower short-term bank debt boosted their share of cash holdings and bank deposits from 11% in 2010 to 16% in 2015, while medium-sized enterprises increased the size of their balance sheet holdings of these assets from 7% to 9%. By contrast, large enterprises were tending in this period to further scale back their liquidity buffers as a share of total assets from what was already a lower starting percentage of the balance sheet. Non-group-affiliated enterprises with lower short-term bank debt ratios in 2015 stepped up their cash holdings and bank deposits between 2010 and 2015 by just over 4 percentage points to almost 20% of total assets. Even non-group-affiliated enterprises which had smaller balance sheet holdings of supplier liabilities showed a marked rise in their cash ratio during this period.

Summary and conclusions

Convergence of equity bases at a high level

... especially in the case

of small and

medium-sized enterprises and

non-affiliated

enterprises

The funding patterns of non-financial enterprises in Germany have changed markedly in recent years. The sustained improvement in equity ratios, for example, continued in the period observed here from 2010 to 2015, with profit retention likely to have made a substantial contribution in this regard. In addition, there was a considerable reduction in the differences in the extent to which enterprises are equipped with liable capital depending on firm size and economic sector. This means that the idea of a significant equity capital gap between small and large enterprises, to which many of the economic problems of small and mediumsized enterprises were regularly attributed in the past, is now largely outdated.

On the other hand, there was a marked reduction in debt, primarily as a result of a decrease in liabilities to banks, although funding in the form of bank loans still plays an important role for a large number of small and medium-sized enterprises in Germany. The increase in cash holdings in the balance sheets of enterprises over the past few years can be explained in the context of a declining share of trade credit. Small and medium-sized enterprises as well as enterprises not affiliated with a group, in particular, are tending to offset the decline in funding buffers at banks and suppliers with higher liquidity provisions of their own. Despite the opportunity costs, this then affords them more security and greater flexibility in decisionmaking. The renewed growth in cash holdings over the past few years therefore need not necessarily be associated with a more or less involuntary reaction to a lack of sufficiently lucrative investment opportunities, but could also be interpreted as a deliberate decision to mitigate risk, at least in the case of enterprises which are keeping their short-term debt positions at a comparatively low level.

What particularly stands out is the strong growth in intra-group liabilities that has come about as a result of the German economy's greater international focus and the establishment of value added processes based on the division of labour. This balance sheet item largely reflects funding through syndicated loans and securities issuance, which is mainly obtained through special intra-group financing companies on the international credit, money and capital markets. In this respect, the actual deleveraging taking place in Germany's non-financial corporate sector would appear, if anything, to be overstated when looking at enterprises' individual financial statements.

All things considered, the adjustments in both the financing structures and in liquidity-holding bring considerable advantages for non-financial corporations' viability in the face of exogenous shocks and are likely to help make the German corporate sector more resilient to crisis. Deleveraging occasionally leads to increased cash holdings

ance of intragroup financing companies

Growing import-

Altered funding patterns contribute to enterprises' increased resilience to crisis Deutsche Bundesbank Monthly Report July 2018 68

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I Key economic data for the euro area

1 Monetary developments and interest rates

	Money stock in v	arious definitions	1,2		Determinants of	the money stock	1	Interest rates		
			M 3 3	3-month moving average	MFI lending,	MFI lending to enterprises and	Monetary capital		3-month	Yield on Euro- pean govern- ment bonds
	M1	M2		(centred)	total	households	formation 4	Eonia 5,7	Euribor 6,7	outstanding 8
Period	Annual percentag	ge change						% Annual percer	ntage as a monthl	y average
2016 Sep	8.3	5.0	5.0	4.8	4.0	1.9	- 2.2	- 0.34	- 0.30	0.6
Oct Nov Dec	8.0 8.5 8.8	4.6 4.8 4.8	4.5 4.7 5.0	4.7 4.7 4.8	4.3 4.4 4.7	2.2 2.2 2.4	- 1.6 - 1.5 - 1.6	- 0.35 - 0.35 - 0.35	- 0.31 - 0.31 - 0.32	0.7 1.0 1.0
2017 Jan Feb Mar	8.4 8.3 9.0	4.6 4.7 5.0	4.7 4.6 5.1	4.8 4.8 4.8	4.5 4.3 4.8	2.4 2.2 2.8	- 1.4 - 1.0 - 1.1	- 0.35 - 0.35 - 0.35	- 0.33 - 0.33 - 0.33	1.1 1.2 1.2
Apr May June	9.1 9.2 9.6	5.0 5.1 5.2	4.8 4.9 4.9	4.9 4.8 4.8	4.5 4.3 4.1	2.6 2.6 2.8	- 1.4 - 1.2 - 1.2	- 0.36 - 0.36 - 0.36	- 0.33 - 0.33 - 0.33	1.1 1.1 1.0
July Aug Sep	9.2 9.6 9.9	5.0 5.4 5.4	4.6 5.0 5.2	4.8 4.9 5.1	3.8 3.8 3.9	2.6 2.3 2.4	- 0.9 - 0.8 - 0.9	- 0.36 - 0.36 - 0.36	- 0.33 - 0.33 - 0.33	1.2 1.0 1.0
Oct Nov Dec	9.5 9.2 8.7	5.4 5.3 5.1	5.0 4.9 4.6	5.0 4.8 4.7	3.7 3.9 3.6	2.5 2.9 2.6	- 1.4 - 1.3 - 1.3	- 0.36 - 0.35 - 0.34	- 0.33 - 0.33 - 0.33	1.1 0.9 0.9
2018 Jan Feb Mar	8.8 8.4 7.5	5.3 4.9 4.4	4.6 4.3 3.7	4.5 4.2 3.9	3.5 3.3 2.8	2.9 2.6 2.4	- 0.9 - 1.3 - 0.9	- 0.36 - 0.36 - 0.36	- 0.33 - 0.33 - 0.33	1.1 1.2 1.1
Apr May June	7.0 7.5 	4.2 4.6 	3.8 4.0 	3.9 	2.8 3.2 	2.7 3.2 	- 0.7 - 1.5	- 0.37 - 0.36 - 0.36	- 0.33 - 0.33 - 0.32	1.0 1.1 1.1

¹ Source: ECB. 2 Seasonally adjusted. 3 Excluding money market fund shares/units, money market paper and debt securities with a maturity of up to two years held by non-euro-area residents. 4 Longer-term liabilities to euro-area non-MFIs. 5 Euro

OverNight Index Average. **6** Euro Interbank Offered Rate. **7** See also footnotes to Table VI.4, p 43° . **8** GDP-weighted yield on ten-year government bonds. Countries include: DE,FR,NL,BE,AT,FI,IE,PT,ES,IT,GR,SK.

2 External transactions and positions *

	Selecte	ed items (of the e	uro-area	balance	of paym	ents r										Euro exchange	rates 1		
	Curren	t accoun	t		Financ	ial accour	nt											Effective exch	nange rate	3
	Balanc	e	of whi		Baland	:e	Direct investi	nent	Portfo invest		Financi derivat		Other invest		Reserve assets		Dollar rate	Nominal	Real 4	
Period	€ millio	on															1 EUR = USD	Q1 1999 = 10	00	
2016 Sep	+	38,079	+	33,606	+	50,627	+	60,951	+	28,222	+	4,190	_	49,481	+	6,745	1.1212	95.1	9	90.1
Oct Nov Dec	+ + +	34,507 39,284 47,674	+ + + +	28,476 34,333 33,186	+ + + +	9,615 14,421 98,106	+ + +	23,846 11,880 30,366	+ - +	38,372 30,097 53,214	+ + +	5,447 2,207 7,094	- + +	54,100 27,886 1,385	- + +	3,950 2,545 6,046	1.1026 1.0799 1.0543	95.1 94.6 93.7	8	90.3 89.6 88.9
2017 Jan Feb Mar	- + +	1,563 20,488 45,247	+ + +	6,676 18,717 37,569	- + +	7,321 22,638 39,826	- + +	27,665 13,241 10,374	+ + -	16,459 73,511 1,842	+ + +	8,411 8,337 7,743	+ - +	517 74,495 22,832	- + +	5,043 2,044 719	1.0614 1.0643 1.0685	93.9 93.4 94.0	8	39.1 38.9 39.2
Apr May June	+ + +	20,310 15,614 28,851	+ + +	24,480 29,449 34,138	+ + +	14,179 8,985 55,981	+ + -	24,694 20,086 28,179	+ - +	20,757 20,950 25,173	+ + -	2,344 4,135 5,980	- + +	29,474 4,582 63,402	- + +	4,142 1,132 1,565	1.0723 1.1058 1.1229	93.7 95.6 96.3	9	99.0 90.5 91.2
July Aug Sep	+ + +	42,939 38,883 46,488	+ + +	32,562 25,690 34,903	+ + +	41,562 6,067 79,242	- - +	1,857 14,388 9,537	+ + +	25,222 70,769 38,359	- - -	2,814 5,622 1,884	+ - +	26,204 44,009 26,810	- - +	5,194 682 6,420	1.1511 1.1807 1.1915	97.6 99.0 99.0	9	92.4 93.6 93.6
Oct Nov Dec	+ + +	39,417 41,641 48,252	+ + +	30,338 36,352 32,175	+ + +	38,084 35,978 78,945	+ + +	27,780 784 9,618	+ + + +	51,039 5,694 10,822	+ + +	1,929 4,143 4,674	- + +	39,966 19,181 55,458	- + -	2,698 6,177 1,628	1.1756 1.1738 1.1836	98.6 98.5 98.8	9	93.1 93.0 93.3
2018 Jan Feb Mar	+ + +	10,229 25,909 44,557	+ + +	11,444 25,416 37,378	+ + +	16,722 35,820 99,916	+ + +	41,247 32,673 59,952	+ + -	18,403 48,258 14,819	+ - -	247 577 3,842	- +	45,456 44,416 49,229	+ - +	2,282 119 9,396	1.2200 1.2348 1.2336	99.4 99.6 99.7	9	93.9 93.9 94.2
Apr May June	+	26,203 	+	22,616	-	6,010 	+	34,723 	+	26,383 	+	1,669 	-	65,059 	-	3,726	1.2276 1.1812 1.1678	99.5 98.1 97.9	p 9	93.9 92.8 92.7

^{*} Source: ECB, according to the international standards of the Balance of Payments Manual in the 6th edition of the International Monetary Fund. 1 See also Tables

XII.10 and 12, pp 82 -83° . **2** Including employee stock options. **3** Vis-à-vis the currencies of the EER-19 group. **4** Based on consumer price indices.

I Key economic data for the euro area

3 General economic indicators

Period	Euro area	Belgium	Germany	Estonia	Finland	France	Greece	Ireland	Italy	Latvia
	Real gross	domestic pro	oduct 1,2							
2015 2016 2017	2.1 1.8 2.4	1.4 1.4 1.7	1.7 1.9 2.2	1.7 2.1 4.9	0.1 2.5 2.8	1.1 1.2 2.2	- 0.3 - 0.2 1.3	25.6 5.1 7.8	1.0 0.9 1.5	3.0 2.2 4.6
2016 Q4	2.0	1.4	1.3	3.1	2.5	1.0	- 1.3	9.9	0.6	3.0
2017 Q1 Q2	2.1 2.5	1.8 1.5	3.4 1.0	4.4 5.7	4.2 2.6	1.7 1.6	0.7 1.4	5.3 6.3	2.0 1.3	4.1 4.0
Q3 Q4	2.8 2.8	1.6 2.0	2.2 2.3	4.2 5.0	2.1 2.4	2.5 2.8	1.4 1.8	10.9 8.4	1.4 1.3	5.8 4.2
2018 Q1	2.5	1.5	1.6	3.6	2.8	2.0	2.3		1.2	3.9
	Industrial p	oroduction 1,3	3							
2015 2016	2.6 1.6	- 1.2 4.6	0.9 1.1	- 0.2 3.0	- 1.1 3.9	1.6 0.3	1.0 2.6	35.9 1.8	1.1 1.9	3.4 4.9
2017	3.0	3.0	3.4	8.0	4.2	2.4	4.8	- 2.2	3.6	8.5
2016 Q4 2017 Q1	3.2 1.2	5.3	1.5	8.7 10.8	5.2 5.7	0.9	3.9 9.9	13.4 – 6.6	3.9	9.8 8.6
Q2 Q3	2.5 4.1	4.2 4.7	3.1 4.3	12.4 4.3	3.2 2.9	1.7 3.1	3.4 4.5	- 6.6 3.4	3.8 4.6	9.2 11.4
Q4	4.1	1.8	5.0	4.9	5.1	3.9	1.9	0.5	4.0	4.9
2018 Q1	3.1	l 2.8 tilisation in ir	dustry 4	5.6	5.5	2.2	- 0.5	- 2.2	3.4	4.5
2015	' '			I 71.4	J 70.2	I 02.7		ı	J 75.5	J 71.5.1
2015 2016	81.2 81.7	79.7 80.0	84.3 84.6	71.4 73.6	79.2 78.0	82.7 83.2	66.2 67.6	- - -	75.5 76.3	71.5 72.6
2017 2017 Q1	83.1 82.4	81.8 80.7	86.6 85.5	74.9 74.4	82.3 81.0	84.7 84.6	70.0 68.6	_	76.8 76.5	74.5 74.5
Q2 Q3	82.6 83.3	81.4 82.0	86.1 86.9	76.4 73.9	82.1 82.6	84.3 84.7	68.1 72.0	_ _	76.0 77.0	74.8 74.5
Q4	84.0	82.9	87.7	74.8	83.6	85.2	71.2	-	77.6	74.2
2018 Q1 Q2	84.5 84.3	82.1 81.2	88.2 87.8	75.5 73.9	83.1 84.3	86.2 85.8	70.4 71.2	- -	78.3 78.1	75.8 76.3
	Standardise	ed unemploy	ment rate 5							
2015 2016	10.9 10.0	8.5 7.8	4.6 4.1	6.2 6.8	9.4 8.8	10.4 10.1	24.9 23.6	10.0 8.4	11.9 11.7	9.9 9.6
2017 2017 Dec	9.1	7.1	3.8	5.8	8.6	9.4	21.5	6.7	11.2	8.7
2017 Dec 2018 Jan	8.7 8.6	6.2 6.1	3.6 3.5	5.5 6.3	8.3 8.2	9.1 9.2	20.8 20.7	6.2 6.0	10.9 11.1	8.2 8.1
Feb Mar	8.6 8.5	6.1 6.0	3.5 3.4	6.2 5.6	8.1 8.0	9.2 9.2	20.7 20.1	5.8 5.6	11.0 11.0	7.8 7.6
Apr	8.4	6.0	3.5	5.0	7.9	9.2	20.2	5.4	11.0	7.4
May	8.4	6.0	3.5		7.9	9.2	l	5.3	10.7	7.4
		d Index of Co	onsumer Pric							
2015 2016	6 0.0 0.2	1.8	0.4	0.8	0.4	0.3	0.0	- 0.2	0.1 - 0.1	0.1
2017 2018 Jan	1.5 1.3	2.2 1.8	1.7 1.4	3.7 3.6	0.8	1.2 1.5	1.1 0.2	0.3 0.3	1.3 1.2	2.9
Feb	1.1	1.5	1.2	3.2	0.6	1.3	0.4	0.7	0.5	1.8
Mar Apr	1.3 1.3	1.5 1.6	1.5 1.4	2.9 2.9	0.9	1.7 1.8	0.2 0.5	0.5 - 0.1	0.9 0.6	2.3
May June	1.9 2.0	2.3 2.6	2.2	3.1 3.9	1.0 1.2	2.3	0.8	0.7 0.7	1.0	2.4 2.7
	General go	vernment fir	nancial balan	ce ⁷						
2015 2016	- 2.0 - 1.5 - 0.9	- 2.5 - 2.5 - 1.0	0.8 1.0	0.1 - 0.3 - 0.3	- 2.8 - 1.8 - 0.6	- 3.6 - 3.4 - 2.6	- 5.7 0.6	- 1.9 - 0.5 - 0.3	- 2.6 - 2.5 - 2.3	- 1.4 0.1
2017	- 0.9	- 1.0	1.2	- 0.3	- 0.6	- 2.6	0.8	- 0.3	- 2.3	- 0.5
2015		vernment de		100	I 63.5	I 05.5	1760	76.0	1245	1 200
2015 2016 2017	89.9 89.0 86.7	106.1 105.9 103.1	71.0 68.2 64.1	10.0 9.4 9.0	63.5 63.0 61.4	95.6 96.6 97.0	176.8 180.8 178.6	76.9 72.8 68.0	131.5 132.0 131.8	36.8 40.5 40.1

Sources: National data, European Comission, Eurostat, European Central Bank. Latest data are partly based on press reports and are provisional. 1 Annual percentage change. 2 GDP of the euro area calculated from seasonally adjusted data. 3 Manufacturing, mining and energy; adjusted for working-day

variations. **4** Manufacturing, in %; seasonally adjusted; data are collected in January, April, July and October. **5** As a percentage of the civilian labour force; seasonally adjusted. Standardised unemployment rate of Germany: Bundesbank calculation based on unadjusted data from the Federal Statistical Office.

		ı	1	I	1	1	1	1	I	1	1
Lithuar	nia	Luxembourg	Malta	Netherlands	Austria	Portugal	Slovakia	Slovenia	Spain	Cyprus	Period
								Real gr	oss domestic	product 1,2	
	2.0 2.3 3.8	2.9 3.1 2.3	9.6 5.2 6.4	2.0 2.2 2.9	1.1 1.4 3.0	1.8 1.6 2.7	3.9 3.3 3.4	2.3 3.1 5.0	3.4 3.3 3.0	2.0 3.4 3.9	2015 2016 2017
	3.6	4.5	5.3	2.0	1.1	2.0	3.2	3.5	2.5	3.9	2016 Q4
	4.2 4.1 3.2 4.0	2.6 1.7 3.2 1.8	6.6 7.3 7.3 4.6	3.0 2.9 2.8 2.7	3.1 2.7 3.2 3.2	3.2 2.8 2.5 2.3	3.0 3.7 3.4 3.5	5.0 4.5 4.5 6.0	2.8 3.4 2.9 3.0	3.8 4.0 3.8 3.9	2017 Q1 Q2 Q3 Q4
	3.7	5.1	1	2.7	3.4	1.5	3.6	4.6	2.9	4.0	2018 Q1
									Industrial pr	oduction ^{1,3}	
	4.2 2.8 6.8	1.2 0.5 2.5	6.3 - 4.7 4.1	- 3.3 2.2 2.0	2.2 2.8 4.6	2.1 2.4 3.5	6.0 3.7 3.1	5.1 7.8 8.5	3.4 1.7 3.2	5.1 9.3 8.1	2015 2016 2017
	2.9	0.6	- 2.5	5.5	4.5	1.6	2.8	9.2	1.8	9.7	2016 Q4
	5.1 6.2 8.7 7.0	- 1.3 1.0 5.1 5.1	6.8 3.5 5.3 0.9	2.3 1.4 2.2 2.1	2.1 4.0 6.3 5.8	3.5 2.7 5.6 2.4	5.3 0.4 2.9 3.7	6.5 7.7 8.8 11.2	1.9 2.7 3.1 5.3	10.5 7.4 7.6 7.3	2017 Q1 Q2 Q3 Q4
	6.5	5.7	- 7.4	3.0	6.3	2.0	0.3	8.1	2.9	3.2	2018 Q1
								Capacit	y utilisation i	n industry ⁴	
	74.2 75.9 77.2	68.3 76.9 81.5	78.6 79.1 80.3	81.8 81.7 82.5	84.0 84.3 86.7	80.4 80.2 80.4	82.4 84.5 85.3	83.6 83.5 85.1	77.8 78.6 78.7	58.2 59.8 59.1	2015 2016 2017
	76.5 77.4 77.6	82.6 82.1 80.1	79.3 79.1 80.0	81.4 82.5 83.1	85.1 86.6 86.9	79.8 79.1 80.9	87.1 86.5 84.4	84.5 85.4 85.1	78.8 78.1 78.7	58.1 57.6 61.5	2017 Q1 Q2 Q3
	77.4 77.8 77.5	81.1 83.1 82.0	82.8 81.1 77.6	83.1 83.9 83.6	88.0 88.8 88.7	81.7 81.6 81.4	83.0 83.7 86.3	85.2 85.0 86.0	79.1 79.7 80.3	59.1 60.4 60.9	Q4 2018 Q1 Q2
								Standardise	ed unemploy	ment rate 5	
	9.1 7.9	6.5	5.4	6.9	5.7 6.0	12.6 11.2	11.5 9.7	9.0 8.0	22.1	15.0 13.0	2015 2016
	7.1	5.6	4.6	4.9	5.5	9.0	8.1	6.6	17.2	11.1 10.4	2017
	6.8 6.4	5.4 5.3	4.6	4.4	5.4 5.2	7.9 7.9	7.4	5.7 5.7	16.5 16.4	9.9	2017 Dec 2018 Jan
	6.3 6.5	5.3 5.3	4.4 4.3	4.1 3.9	5.0 4.9	7.6 7.5	7.1 7.0	5.6 5.5	16.2 16.1	9.4 9.0	Feb Mar
	6.9 6.8	5.2 5.2	4.1 3.9	3.9 3.9	4.8 4.6	7.2 7.3	6.9 6.8	5.6 5.6	16.0 15.8	8.6 8.4	Apr May
							Har	monised Ind	ex of Consur	mer Prices ¹	
	- 0.7 0.7 3.7	0.1 0.0 2.1	1.2 0.9 1.3	0.2 0.1 1.3	0.8 1.0 2.2	0.5 0.6 1.6	- 0.3 - 0.5 1.4	- 0.8 - 0.2 1.6	- 0.6 - 0.3 2.0	- 1.5 - 1.2 0.7	2015 2016 2017
	3.6	1.3	1.2	1.5	1.9	1.1	2.6	1.7	0.7	- 1.5	2018 Jan
	3.2 2.5	1.1 1.1	1.3 1.3	1.3 1.0	1.9 2.0	0.7 0.8	2.2 2.5	1.4 1.5	1.2 1.3	- 0.4 - 0.4	Feb Mar
	2.2 2.9	1.3 2.1	1.4 1.7	1.0 1.9	2.0 2.1	0.3 1.4	3.0 2.7	1.9 2.2	1.1 2.1	- 0.3 1.0	Apr May
1	2.6	e 2.4	2.0	1.7	2.3	2.0		l 2.3 neral govern	l 2.3 ment financia		June
I	- 0.2 0.3	1.4	- 1.1 1.0	- 2.1 0.4	- 1.0	- 4.4	_ 2.7	•	- 5.3	- 1.3 0.3	2015 2016
	0.3	1.5			- 1.6 - 0.7	- 2.0 - 3.0	- 2.2 - 1.0	0.0	- 3.1	1.8	2016
									neral governr	_	
	42.6 40.1 39.7	22.0 20.8 23.0	58.7 56.2 50.8	64.6 61.8 56.7	84.6 83.6 78.4	128.8 129.9 125.7	52.3 51.8 50.9	82.6 78.6 73.6	99.4 99.0 98.3	107.5 106.6 97.5	2015 2016 2017

6 Including Lithuania from 2015 onwards. **7** As a percentage of GDP (Maastricht Treaty definition). Euro area: European Central Bank, regularly updated. Member states excluding Germany: latest data publication under the excessive deficit

procedure (Eurostat). Germany: current data according to the Federal Statistical Office and Bundesbank calculations.

1 The money stock and its counterparts * (a) Euro area

€ billion

	I Lending to in the euro a	non-banks (no rea	n-MFIs)				laims o iro-area	n residents			capital forma itutions (MFIs			
		Enterprises and househ	olds	General governme	nt						D it.		Debt	
Period	Total	Total	<i>of which</i> Securities	Total	of which Securities	Total		Claims on non- euro-area residents	Liabil- ities to non-euro- area residents	Total	Deposits with an agreed maturity of over 2 years	Deposits at agreed notice of over 3 months	securities with maturities of over 2 years (net) 2	Capital and reserves 3
2016 Oct	84.9	37.3	5.6	47		-	45.5	153.		4.7	- 5.6	- 0.6	- 2.6	13.5
Nov Dec	105.8 - 57.7		16.1 – 8.3	50 – 7			7.4 36.3	– 21. – 154.		0.3 - 12.3	- 7.9 0.7	- 0.8 - 1.0	- 1.1 - 13.7	10.1 1.7
2017 Jan Feb	130.6 46.4	30.9	31.0 4.2	87 15	5 35.6	-	13.3 46.6	233. 52.	99.5	14.3	- 9.8 - 6.2	- 0.2 - 0.5	- 3.9 - 3.0	24.0
Mar	151.3	92.7	25.4	58	62.4	-	8.8	– 51.	5 – 42.6	- 14.8	1.6	- 0.5	- 22.7	6.8
Apr May June	54.5 48.5 23.8	24.0	20.0 16.3 0.4	30 24 – 5	5 35.1	-	38.5 0.7 58.2	77. - 4. - 108.	0 – 4.8		- 12.2 - 7.7 - 13.6	- 0.3 - 2.4 - 0.1	- 0.8 16.6 - 6.5	- 9.6 9.0 15.3
July Aug Sep	6.9 12.9 54.9	- 19.7	15.3 - 15.0 - 13.8	6 32 11	6 38.6	-	7.0 26.9 6.3	105. - 2. - 34.	3 24.1	- 7.2 7.2 - 24.2	- 7.8 - 5.8 - 12.1	- 0.9 - 0.8 - 0.9	- 3.0 - 3.1 - 29.9	4.4 17.0 18.7
Oct Nov Dec	65.1 127.7 – 106.6		- 9.2 22.1 - 8.7	11 28 – 18	6 34.7	-	69.5 18.6 15.4	87. - 1. - 153.	- 19.6	3.7	- 27.0 4.5 11.4	- 0.6 - 0.8 - 0.6	- 7.4 - 2.6 - 5.9	4.7 2.6 – 11.4
2018 Jan Feb Mar	126.0 4.1 66.3	- 0.3	26.5 - 0.4 1.5	41 4 5	4 20.4	-	42.3 11.6 81.9	152. 47. – 64.	1 58.7	11.2 - 17.6 14.3	- 8.5 0.1 - 5.4	- 0.1 - 0.5 - 0.4	20.2 - 12.5 1.6	- 0.4 - 4.8 18.4
Apr May	64.1 112.1	64.3 84.2	52.4 8.7	- 0 27		- -	74.1 36.0	41. 120.			- 2.3 - 7.8	- 0.5 - 0.4	- 3.3 - 7.0	

(b) German contribution

	I Lending to in the euro a	non-banks (no ea	n-MFIs)			II Net cl non-eu		n residents			capital forma			
		Enterprises and househ	olds	General government									Debt	
Period	Total	Total	<i>of which</i> Securities	Total	<i>of which</i> Securities	Total		Claims on non- euro-area residents	Liabil- ities to non-euro- area residents	Total	Deposits with an agreed maturity of over 2 years	Deposits at agreed notice of over 3 months	securities with maturities of over 2 years (net) 2	Capital and reserves 3
2016 Oct Nov Dec	21.5 28.1 – 10.1	11.8 18.4 – 8.1	2.6 4.4 0.4	9.6 9.7 – 2.1	6.5 14.4 8.4	-	3.2 22.4 19.6	42.4 - 25.7 - 9.5	45.7 - 3.3 - 29.1	7.1 9.2 – 2.6	2.2 - 0.6 - 2.0	- 0.8 - 0.5 - 0.4	5.8 9.6 – 2.9	- 0.2 0.8 2.7
2017 Jan Feb Mar	23.6 17.3 18.2	12.5	2.3 3.9 1.8	8.6 4.9 5.5	8.5 5.5 9.5	- - -	24.4 30.2 3.6	31.8 7.5 6.3	56.2 37.8 9.9	9.8 - 1.4 2.7	- 3.1 - 1.4 - 1.0	- 0.7 - 0.6 - 0.5	15.9 - 0.1 - 1.3	- 2.3 0.8 5.5
Apr May June	14.9 13.8 11.8	13.3		7.1 0.6 0.4	5.4 7.9 2.6	-	19.0 7.1 22.7	- 7.3 - 13.0 16.2	11.6 - 20.1 - 6.4	9.3 2.7 6.0	- 3.5 - 0.1 - 2.0	- 0.5 - 0.4 - 0.4	1.3 1.8 2.8	11.9 1.4 5.6
July Aug Sep	18.1 13.6 17.8	1	1.8 - 0.6 - 1.8	5.3 3.4 3.7	3.5 8.3 8.0	- -	10.3 14.7 22.3	- 23.0 - 13.8 9.2	- 12.7 - 28.5 31.5	- 4.0 4.5 - 5.9	- 1.3 0.1 - 0.2	- 0.8 - 0.8 - 0.6	- 1.4 3.5 - 7.3	- 0.5 1.7 2.3
Oct Nov Dec	15.9 27.2 – 5.4	16.7	0.4 6.4 4.3	7.3 10.5 – 1.8	6.5 11.2 1.0	_	6.1 23.1 48.9	- 11.4 - 2.6 - 8.1	- 17.5 - 25.7 40.8	- 11.4 2.6 2.6	- 1.0 3.3 - 0.3	- 0.8 - 0.6 - 0.6	- 9.5 0.1 - 1.9	- 0.1 - 0.1 5.3
2018 Jan Feb Mar	19.1 5.1 7.2	21.3 10.7 9.7	2.0 - 1.7 - 2.2	- 2.2 - 5.6 - 2.5	- 1.3 - 0.2 - 0.6	-	10.1 20.7 7.9	28.1 11.6 – 5.2	18.0 32.4 – 13.1	4.9 - 5.3 3.1	- 3.0 - 0.9 - 2.6	- 0.7 - 0.6 - 0.4	14.2 - 1.0 4.0	- 5.6 - 2.9 2.2
Apr May	7.3 19.2		0.9 5.0	0.1 - 2.1	- 0.7 2.4	- -	5.0 11.2	- 13.9 29.8	- 8.9 41.0	- 2.3 - 0.1	- 0.6 0.6	- 0.5 - 0.2	- 3.1 4.1	1.9 - 4.6

^{*} The data in this table are based on the consolidated balance sheet of monetary financial institutions (MFIs) (Table II.2); statistical breaks have been eliminated from the flow figures (see also the "Notes on the figures" in the "Explanatory notes" in the Statistical Supplement to the Monthly Report 1, p 30°). 1 Source: ECB. 2 Excluding

MFIs' portfolios. **3** After deduction of inter-MFI participations. **4** Including the counterparts of monetary liabilities of central governments. **5** Including the monetary liabilities of central governments (Post Office, Treasury). **6** In Germany, only savings deposits. **7** Paper held by residents outside the euro area has been eliminated.

(a) Euro area

			V Otl	ner fact	tors	VI Money sto	ock M3 (balan	ce I plu	ıs II less	s III less IV les	ss V)]
							Money stock	: M2													secur-	
					of which Intra-			Mone	y stock	: M1										ities v matui	rities	
po cer	De- sits o ntral g	gov-	Total	4	Eurosystem liability/ claim related to banknote issue	Total	Total	Total		Currency in circu- lation	Overnight deposits 5	with agre mat of u		Deposit at agree notice of up to 3 months	ed of	Repo trans tions	ac-	Mon- mark fund share (net)	ét	of up 2 yea (incl r marke paper (net)	rs noney et ')	Period
.	_	3.0		7.0	_	30.7	14.4		50.2	3.2	47.0	-	29.6	-	6.2	-	16.9		18.0		2.1	2016 Oct
		5.1		20.4	-	87.4	82.7		95.0	1.2	93.7	-		-	1.9	-	2.2		7.0		1.2	Nov
'	- '	48.3	-	12.4	-	51.6	72.1		89.8	16.1	73.7	-	24.1		6.4		4.4	-	6.0	-	7.3	Dec
		62.7		42.1	-	27.8	6.4	-	6.6	- 11.9	5.4		3.3		9.7	-	17.4		11.5	-		2017 Jan
'		17.4 24.2	-	26.6 26.5	-	29.5 106.5	31.0 92.5		31.3 92.9	2.9 4.4	28.4 88.5	-			1.6 5.2	-	8.6 14.8	-	4.1 11.9		6.0 1.0	Feb Mar
					-							-								-		
	-	5.4	-	9.2	-	53.5	72.4		101.9	6.8	95.1	-	31.2		1.7	-	5.9	-	4.3	-	16.4	Apr
		13.4 20.4	-	12.6 21.1	_	33.0 45.4	30.2 74.6		42.0 82.7	0.4 9.5	41.6 73.2		20.9		9.1 2.3	-	11.7 16.6	-	4.7 20.6	_	6.1 0.2	May June
	•																	-		-		
'	-	7.7 18.3	-	14.9 58.6	-	43.7 55.7	31.5 45.5		35.9 30.9	6.0 - 2.3	29.9 33.2	-	6.2 8.1		1.8 6.4	-	24.1		13.6 9.1	-	3.3 5.2	July
		41.2	-	23.2	_	21.1	23.7		48.0	1.0	47.0	_		_	3.0		7.0	_	4.1	-	10.6	Aug Sep
'		43.4 8.8		54.1 72.9	_	15.3 78.6	12.1 73.2		22.7 81.7	1.9 0.9	20.8 80.8			-	2.8 0.9		19.8 17.2	_	8.9 3.8	-	7.8 1.3	Oct Nov
	_ ;	21.4	_	83.9	I -	20.6	62.6		65.2	16.1	49.2			-	4.1	_	31.7	-	26.5	_	7.4	Dec
		41.3 13.5 13.9		22.7 9.6 51.1	- - -	8.5 - 13.0 68.9	- 2.5 - 9.5 65.9	-	19.8 5.0 63.2	- 15.2 0.3 8.7	- 4.7 4.7 54.5	 - 	5.6 17.2 3.7		11.7 2.8 6.4	 - 	7.5 4.8 7.7	_	19.6 11.3 1.4	-	11.8 4.4 8.0	2018 Jan Feb Mar
		19.6 7.1	-	35.8 40.0	- -	53.4	32.3		50.7 96.0	4.2	46.5 91.1	- -	20.6		2.2	-	3.7 24.7	_	12.3 11.2	_	1.9 7.8	Apr

(b) German contribution

Г		V Othe	r factor	S			VI Mone	y stock	M3 (ba	lance I	plus II less	III les	s IV less V)	10							
				of which					Compo	nents o	f the mon	ey sto	ck								
pc ce	De- osits of ntral gov- nments	Total		Intra- Eurosystem liability/ claim related to banknote issue 9,11	Currency in circu- lation		Total		Overnig deposit		Deposits with an agreed maturity of up to 2 years		Deposits at agreed notice of up to 3 months 6		Repo transac- tions		Money market fund shares (net) 7,8		Debt securit with maturities of up to 2 ye (incl money market paper)(net) 7	ears	Period
	- 8.8 6.9	_	18.6 48.2	3.2 1.9		0.5		1.4 37.8		12.0 36.2	-	10.2		0.2	_	0.3	-	0.1	-	0.8 1.7	2016 Oct Nov
	– 13.6	-	30.4	3.3		2.4	_	4.8	_	4.9	_	1.5		2.7	_	0.2	_	0.0	_	0.1	Dec
	- 12.6 - 4.2 14.2	- - -	27.2 18.9 2.7	1.1 1.7 1.8		2.7 1.2 1.1		29.2 11.6 0.5		16.9 13.6 2.4	_	8.9 2.4 3.5	_	0.7 0.7 1.4	- -	2.6 0.3 1.9	- - -	0.1 0.0 0.1	_	0.2 0.0 2.0	2017 Jan Feb Mar
	- 6.7 7.7 7.1	 -	8.9 8.7 0.7	3.3 2.9 4.7	- (1.6 0.7 0.9		2.3 19.2 20.7		10.3 18.3 20.6	-	7.1 1.3 0.7	- - -	0.0 0.1 0.7	 - -	0.9 1.1 0.6	- -	0.0 0.0 0.1	-	1.8 0.8 0.6	Apr May June
	2.5 7.4 9.6	_	14.8 5.1 14.2	2.1 3.7 3.5	- ·	2.1 1.3 0.3	-	5.6 11.2 5.9	-	3.0 14.7 5.6	- -	3.0 2.9 0.8	- -	0.4 0.3 0.0	_	1.4 0.1 0.8	-	0.1 0.2 0.0	- -	0.6 0.5 0.3	July Aug Sep
	- 14.2 6.2 10.0	_	43.1 8.7 58.0	2.1 1.2 3.8	_ (0.8 0.0 2.0	_	4.5 32.7 8.8	_	14.3 33.8 10.1	- -	9.3 1.7 0.4		0.5 0.2 2.4	-	0.3 0.3 0.7	-	0.3 0.0 0.3	-	0.5 0.2 1.8	Oct Nov Dec
	- 24.3 9.2 8.3	_	35.5 21.2 0.6	- 0.0 2.0 6.9	_ (2.8 0.3 1.5		13.1 1.7 3.1	_	11.5 5.2 0.5	_	2.4 4.4 6.0	_	0.2 0.3 0.5	 - -	1.0 0.5 0.9	-	0.0 0.3 0.2	-	2.0 0.7 1.1	2018 Jan Feb Mar
	- 15.2 11.7	_	14.5 42.5	1.3 5.4		1.9 0.1		5.3 38.9		14.7 38.8	_ _	8.6 0.5	- -	0.3 0.1	<u>-</u>	0.5 0.8	<u>-</u>	0.0	-	0.0 1.7	Apr May

8 Less German MFIs' holdings of paper issued by euro-area MFIs. **9** Including national banknotes still in circulation. **10** The German contributions to the Euro-system's monetary aggregates should on no account be interpreted as national monetary aggregates and are therefore not comparable with the erstwhile German

money stocks M1, M2 or M3. **11** The difference between the volume of eurobanknotes actually issued by the Bundesbank and the amount disclosed in accordance with the accounting regime chosen by the Eurosystem (see also footnote 2 on banknote circulation in Table III.2).

- II Overall monetary survey in the euro area
- 2 Consolidated balance sheet of monetary financial institutions (MFIs) *

		Assets									
		Lending to non	-banks (non-MFI	s) in the euro ar	ea						
			Enterprises and	households	I		General govern	ment			
	Total					Shares and				Claims on non-	
End of year/month	assets or liabilities	Total	Total	Loans	Debt securities 2	other equities	Total	Loans	Debt securities 3	euro-area residents	Other assets
	Euro area	(€ billion) ¹									
2016 Apr	26,557.7	16,909.0	12,815.8	10,721.5	1,325.7	768.7	4,093.2			5,173.9	4,474.8
May June	26,807.2 27,073.1	16,994.0 17,041.4	12,842.6 12,829.3	10,733.5 10,732.4	1,341.4 1,344.2	767.8 752.7	4,151.4 4,212.1	1,121.7 1,110.6	3,029.6 3,101.4	5,270.0 5,278.2	4,543.3 4,753.5
July Aug	27,135.2 27,038.0	17,093.7 17,105.7	12,852.6 12,866.5	10,737.7 10,723.2	1,359.7 1,365.1	755.3 778.2	4,241.1 4,239.1	1,111.6 1,102.9	3,129.5 3,136.2	5,326.7 5,321.4	4,714.8 4,610.8
Sep	26,973.5	17,103.7	12,892.6	10,756.8	1,359.3	776.5	4,255.0	1,098.8	3,156.2	5,266.4	4,559.5
Oct Nov	27,051.8 27,160.5	17,202.6 17,295.1	12,923.2 12,983.5	10,785.2 10,830.2	1,363.1 1,383.3	775.0 770.0	4,279.4 4,311.6	1,101.0 1,088.9	3,178.4 3,222.7	5,422.4 5,451.6	4,426.7 4,413.8
Dec	26,716.3	17,273.4	12,964.2	10,810.8	1,372.2	781.2	4,309.2	1,079.4	3,229.7	5,208.1	4,234.9
2017 Jan Feb	26,797.7 27,058.8	17,356.3 17,417.4	12,995.3 13,033.2	10,815.7 10,846.0	1,393.4 1,398.4	786.2 788.9	4,361.0 4,384.2	1,097.5 1,076.4	3,263.5 3,307.8	5,377.9 5,497.8	4,063.4 4,143.6
Mar	27,010.2	17,549.8	13,115.7	10,902.2	1,423.7	789.8	4,434.1	1,073.0	3,361.2	5,418.3	4,042.0
Apr May	27,101.0 27,016.8	17,594.9 17,632.4	13,130.4 13,145.3	10,897.6 10,895.9	1,429.8 1,451.1	803.0 798.3	4,464.4 4,487.0	1,075.6 1,062.4	3,388.8 3,424.6	5,450.9 5,361.2	4,055.3 4,023.3
June	26,693.8	17,611.0	13,132.8	10,895.3	1,441.3	796.2	4,478.2	1,063.0	3,415.2	5,196.3	3,886.5
July Aug	26,650.8 26,683.7	17,603.9 17,610.2	13,118.6 13,087.1	10,866.0 10,853.1	1,460.1 1,444.2	792.5 789.7	4,485.2 4,523.1	1,060.3 1,054.5	3,425.0 3,468.6	5,229.0 5,199.5	3,818.0 3,874.0
Sep	26,562.4	17,655.0	13,129.9	10,905.6	1,433.3	791.0	4,525.1	1,045.9	3,479.1	5,172.0	3,735.3
Oct Nov	26,761.1 26,790.6	17,733.3 17,846.4	13,189.7 13,272.3	10,968.4 11,037.6	1,423.0 1,431.0	798.3 803.8	4,543.6 4,574.1	1,046.1 1,038.2	3,497.5 3,535.9	5,292.8 5,247.3	3,735.0 3,696.9
Dec	26,322.9	17,711.4	13,170.6	10,946.1	1,425.6	798.9	4,540.8	1,028.5	3,512.3	5,064.7	3,546.8
2018 Jan Feb	26,338.1 26,301.7	17,823.9 17,826.2	13,245.9 13,244.8	10,995.4 10,997.9	1,449.1 1,456.8	801.5 790.1	4,578.1 4,581.4	1,041.0 1,024.8	3,537.0 3,556.6	5,253.4 5,342.4	3,260.8 3,133.1
Mar	26,294.9	17,885.0	13,284.2	11,036.9	1,466.9	780.4	4,600.8	1,022.3	3,578.5	5,258.6	3,151.3
Apr May	26,516.4 26,907.3	18,035.7 18,097.8	13,436.9 13,514.3	11,131.7 11,204.0	1,490.2 1,504.1	815.0 806.2	4,598.8 4,583.5	1,024.1 1,019.5	3,574.7 3,564.0	5,335.2 5,543.0	3,145.5 3,266.5
	German co	ontribution	(€ billion)								
2016 Apr	6,050.2	3,908.3	3,026.3	2,617.8	152.2	256.3	882.1	366.1	515.9	1,181.7	960.2
May June	6,091.2 6,221.2	3,934.7 3,939.7	3,043.0 3,042.5	2,629.7 2,629.1	153.3 152.9	260.0 260.5	891.7 897.2	362.8 357.3	528.9 540.0	1,187.1 1,221.3	969.4 1,060.1
July	6,245.6	3,968.5	3,054.3	2,639.3	155.3	259.7	914.2	360.3	553.8	1,228.3	1,048.8
Aug Sep	6,218.9 6,202.1	3,977.8 4,001.8	3,062.7 3,075.1	2,646.2 2,655.3	155.3 157.6	261.2 262.1	915.1 926.8	358.5 357.2	556.6 569.5	1,226.9 1,215.0	1,014.2 985.4
Oct	6,208.1	4,019.0	3,087.3	2,664.9	161.9	260.5	931.7	360.3	571.4	1,260.2	928.9
Nov Dec	6,186.1 6,131.1	4,046.1 4,037.0	3,107.1 3,099.2	2,680.4 2,671.7	165.0 164.0	261.7 263.6	939.0 937.8	355.5 345.2	583.5 592.6	1,243.2 1,234.7	896.8 859.4
2017 Jan	6,131.6	4,054.1	3,112.0	2,682.7	165.0	264.3	942.1	345.2	596.8	1,260.2	817.4
Feb Mar	6,196.5 6,176.3	4,075.7 4,089.6	3,124.9 3,136.8	2,691.3 2,701.2	168.1 169.6	265.5 266.0	950.8 952.8	344.6 340.6	606.2 612.3	1,281.9 1,281.0	839.0 805.7
Apr	6,174.4	4,103.1	3,143.3	2,709.1	170.4	263.9	959.8	342.3	617.5	1,264.2	807.1
May June	6,160.2 6,106.3	4,114.5 4,120.6	3,157.3 3,165.9	2,719.6 2,722.5	172.6 173.2	265.0 270.2	957.2 954.7	332.2 330.8	624.9 623.9	1,234.6 1,238.6	811.2 747.1
July	6,069.0	4,135.9	3,176.7	2,731.5	175.2	269.9	959.2	332.6	626.7	1,201.4	731.7
Aug Sep	6,084.5 6,076.7	4,152.3 4,167.7	3,186.3 3,200.9	2,741.6 2,757.6	174.3 174.3	270.3 269.1	966.1 966.8	327.8 323.2	638.3 643.6	1,185.1 1,194.6	747.2 714.3
Oct	6,082.0 6,088.7	4,185.9	3,210.4	2,766.1	174.6 178.7	269.8 271.6	975.4 983.6	324.0 321.5	651.4 662.1	1,188.5	707.7
Nov Dec	6,088.7	4,211.0 4,202.2	3,227.4 3,222.8	2,777.0 2,768.6	178.7	271.6	983.6 979.4	321.5	662.1 660.9	1,177.2 1,163.4	700.5 685.4
2018 Jan Feb	6,074.8 6,051.9	4,214.9 4,220.1	3,242.3 3,253.3	2,786.5 2,799.4	181.6 183.1	274.2 270.8	972.5 966.8	317.0 311.4	655.6 655.4	1,176.4 1,195.1	683.5 636.8
Mar	6,051.9	4,228.1	3,260.9	2,799.4	183.0	268.4	967.2	309.7	657.5	1,184.4	641.2
Apr May	6,046.4 6,148.1	4,233.3 4,248.5	3,267.7 3,280.8	2,816.0 2,824.2	184.4 186.8	267.4 269.8	965.6 967.6	310.5 306.5	655.0 661.1		634.6 673.0
		,2	. 3,200.0	,		. 200.0		. =		,	. 0.5.5

^{*} Monetary financial institutions (MFIs) comprise banks (including building and loan associations), money market funds, and the European Central Bank and national central banks (the Eurosystem). 1 Source: ECB. 2 Including money market paper of

iabilities										
	Deposits of non-	banks (non-MFIs)	in the euro area							
			Enterprises and h	nouseholds						
					With agreed maturities of			At agreed notice of 6		
Currency n circulation 4	Total	of which in euro 5	Total	Overnight	up to 1 year	over 1 year and up to 2 years	over 2 years	up to 3 months	over 3 months	End of year/mo
								Euro area	(€ billion) ¹	
1,047.1	11,715.7	10,978.1	11,072.9	5,504.4	963.0	337.5	2,071.0	2,126.5	70.5	2016 A
1,049.3	11,766.9	11,005.9	11,092.6	5,545.2	945.2	331.9	2,066.3	2,134.0	70.0	N
1,057.7	11,829.3	11,001.4	11,089.4	5,565.3	944.9	330.2	2,046.5	2,133.1	69.3	Ju
1,067.8	11,849.6	11,053.7	11,133.7	5,615.1	952.1	325.6	2,039.3	2,132.9	68.8	Ju
1,064.3	11,783.5	11,037.8	11,120.8	5,611.4	952.6	320.7	2,034.0	2,134.1	68.1	A
1,066.5	11,788.9	11,032.4	11,130.6	5,637.1	960.1	315.0	2,021.8	2,129.2	67.4	Si
1,069.7	11,797.5	11,047.9	11,134.7	5,680.7	936.8	307.6	2,018.8	2,123.8	67.2	O
1,071.0	11,882.2	11,107.7	11,212.3	5,780.1	926.7	303.3	2,013.9	2,121.8	66.4	N
1,087.1	11,929.4	11,211.4	11,321.3	5,826.7	911.5	294.0	2,050.9	2,172.7	65.6	D
1,075.6	11,985.1	11,191.6	11,306.4	5,823.9	914.2	286.6	2,034.5	2,182.1	65.0	2017 Ja
1,078.5	11,994.0	11,210.5	11,330.1	5,849.1	919.5	284.5	2,028.8	2,183.6	64.6	Fe
1,082.9	12,103.6	11,279.9	11,422.6	5,945.0	910.9	285.3	2,029.0	2,188.3	64.1	N
1,089.7	12,141.3	11,323.3	11,456.5	6,022.2	886.9	278.6	2,015.2	2,190.1	63.7	A
1,090.2	12,151.7	11,338.9	11,444.1	6,044.4	861.0	273.0	2,004.8	2,199.0	62.0	M
1,099.7	12,214.1	11,384.0	11,483.6	6,113.6	854.2	265.6	1,986.8	2,201.6	61.9	Ju
1,105.6	12,209.8	11,392.9	11,476.5	6,123.8	848.8	262.8	1,976.5	2,206.2	58.4	Ju
1,103.3	12,226.8	11,422.8	11,505.1	6,146.8	857.8	260.6	1,969.7	2,212.6	57.7	A
1,104.2	12,271.6	11,432.3	11,519.7	6,196.9	843.3	256.2	1,956.4	2,210.0	56.8	S
1,106.2	12,217.2	11,420.3	11,507.4	6,217.3	846.5	250.5	1,929.6	2,207.3	56.2	O
1,107.1	12,249.3	11,471.5	11,544.7	6,291.5	832.2	245.9	1,912.8	2,206.7	55.5	N
1,123.2	12,285.8	11,543.2	11,617.9	6,349.6	834.7	242.1	1,925.4	2,211.3	54.9	D
1,108.0 1,108.3 1,117.0	12,317.5 12,329.4 12,391.9	11,527.5 11,524.5 11,578.9	11,609.5 11,603.1 11,659.2	6,341.2 6,345.0 6,407.6	840.5 831.1 831.5	236.7 232.3 226.4	1,914.3 1,916.0 1,909.4	2,221.0 2,223.5 2,229.7	55.8 55.1 54.8	2018 Ja F
1,121.2	12,401.4	11,611.0	11,680.7	6,448.7	817.5	222.4	1,906.9	2,230.9	54.4	A
1,126.1	12,500.9	11,689.4	11,761.8	6,547.0	810.0	217.7	1,900.3	2,232.8	54.0	N
							German	contribution	ı (€ billion)	
244.2	3,429.1	3,334.3	3,208.5	1,759.1	178.5	38.3	640.3	535.1	57.2	2016 A
243.7	3,469.8	3,356.2	3,222.9	1,779.2	175.2	37.3	640.6	534.4	56.2	N
245.2	3,481.5	3,352.9	3,218.7	1,779.1	173.1	38.3	638.8	533.9	55.4	Ju
247.4	3,464.1	3,368.1	3,233.1	1,793.5	174.7	38.2	638.3	533.8	54.6	Ju
246.5	3,480.0	3,376.0	3,238.3	1,803.0	173.4	38.2	636.2	533.8	53.8	A
245.9	3,494.5	3,380.7	3,247.0	1,807.9	179.4	38.3	635.0	533.3	53.1	Si
245.4	3,489.6	3,386.4	3,254.0	1,821.1	172.1	37.8	637.3	533.5	52.3	C
245.7	3,536.5	3,424.0	3,288.1	1,857.7	171.0	37.4	636.6	533.7	51.7	N
248.1	3,517.1	3,419.8	3,284.1	1,851.0	171.5	38.4	635.6	536.3	51.3	D
245.4 246.6 247.7	3,526.3 3,532.6 3,549.3	3,439.3 3,448.3 3,449.2	3,306.3 3,313.4 3,318.1	1,873.8 1,881.5 1,886.4	174.0 175.3 177.4	38.7 38.8 39.9	632.1 630.0 628.4	537.1 537.9 536.5	50.6 50.0 49.5	2017 Ja F
249.3	3,540.9	3,447.5	3,317.0	1,895.9	170.7	40.0	624.7	536.6	49.0	A
248.6	3,566.1	3,465.8	3,327.4	1,910.5	167.5	40.2	624.1	536.4	48.7	N
249.5	3,590.5	3,482.0	3,339.9	1,928.7	165.5	40.3	621.4	535.7	48.3	Ju
251.6	3,583.1	3,472.8	3,333.0	1,927.8	162.6	40.3	619.5	537.9	44.9	Ju
250.4	3,600.7	3,483.1	3,338.6	1,938.3	159.0	40.3	619.3	537.5	44.1	A
250.1	3,616.3	3,486.8	3,345.9	1,945.0	162.3	39.6	617.9	537.5	43.5	S
250.9	3,606.4	3,490.8	3,352.9	1,958.5	158.8	38.6	616.2	538.0	42.7	C
250.9	3,646.8	3,521.5	3,383.7	1,990.6	157.1	37.4	618.2	538.3	42.1	N
252.9	3,647.9	3,515.8	3,378.5	1,976.2	162.0	37.7	620.4	540.7	41.5	D
250.1 249.8 248.3	3,632.5 3,642.4 3,652.2	3,522.3 3,523.0 3,524.1	3,390.7 3,388.4 3,389.6	1,994.6 1,995.9 1,998.1	161.5 160.2 164.6	36.4 35.3 34.2	616.5 615.5 612.1	539.5 540.0 539.4	42.2 41.5 41.0	2018 Ja F
250.3 250.2	3,641.8 3,693.8	3,529.8 3,568.4	3,395.0 3,425.0	2,013.5 2,048.0		33.6 33.0		539.1 539.0	40.6 40.3	A N

of euro banknotes put into circulation by the Bundesbank in accordance with the accounting regime chosen by the Eurosystem (see also footnote 2 on banknote circulation in Table III.2). The volume of currency actually put into circulation by the

Bundesbank can be calculated by adding to this total the item "Intra-Eurosystem liability/claim related to banknote issue" (see "Other liability items"). **5** Excluding central governments' deposits. **6** In Germany, only savings deposits.

2 Consolidated balance sheet of monetary financial institutions (MFIs) (cont'd) *

	Liabilities (co	nt'd)											
	Deposits of r	non-banks (no	n-MFIs) in the	euro area (co	nt'd)								
	General gove	ernment							Repo transac			Debt securitie	es
		Other genera	al government						with non-bar in the euro a				
				With agreed maturities of			At agreed notice of 2				Money		
End of	Central govern-			up to	over 1 year and up to	over	up to	over		of which Enterprises and	market fund shares		of which denom- inated
year/month	ments	Total	Overnight	1 year	2 years	2 years	3 months	3 months	Total	households	(net) 3	Total	in euro
		a (€ billio	n) ¹										
2016 Apr	297.6	345.2	161.9	97.2	15.4	42.2	23.5	4.9	327.9	323.1	489.1	2,275.8	1,586.3
May	317.7	356.6	167.0	102.1	15.5	43.1	24.0	4.9	318.7	312.8	489.2	2,284.5	1,575.9
June	378.3	361.6	171.3	102.4	15.9	43.7	23.5	4.8	321.3	318.0	479.7	2,281.8	1,569.3
July	349.2	366.7	174.1	101.6	18.2	43.8	24.2	4.8	298.6	297.4	494.8	2,258.2	1,543.7
Aug	294.6	368.1	175.7	100.8	18.7	44.3	23.8	4.9	301.0	299.9	495.5	2,253.2	1,534.5
Sep	297.4	361.0	170.5	99.5	19.4	44.4	22.3	5.0	286.5	285.7	493.7	2,227.1	1,517.1
Oct	295.3	367.4	182.2	94.3	19.9	44.5	21.3	5.3	266.4	265.7	511.7	2,226.0	1,503.3
Nov Dec	300.4 253.0	369.6 355.1	178.7 168.6	98.8 93.9	21.1 21.5	44.5 44.2 43.3	21.5 21.6 22.6	5.2 5.1	264.5 268.9	263.7 263.8 268.2	511.7 518.8 512.8	2,226.0 2,244.1 2,230.4	1,503.3 1,506.1 1,502.6
2017 Jan	316.7	362.0	169.5	99.5	21.3	43.4	22.9	5.5	250.1	249.5	524.2	2,205.3	1,488.5
Feb	299.9	364.1	175.0	96.2	20.2	44.1	23.1	5.4	241.7	241.0	520.1	2,216.6	1,494.0
Mar	324.0	357.0	165.4	96.5	21.5	44.6	23.6	5.4	256.5	255.8	532.0	2,188.7	1,479.9
Apr	318.6	366.2	176.4	92.4	23.7	44.7	23.5	5.5	250.4	249.7	527.7	2,160.3	1,466.8
May	332.1	375.5	181.6	94.5	25.3	45.2	24.2	4.7	238.5	237.8	522.9	2,168.4	1,491.1
June	352.5	378.0	181.2	95.7	26.6	45.8	24.0	4.7	221.7	221.0	502.2	2,151.7	1,479.7
July	345.0	388.3	191.0	95.2	26.7	46.2	24.4	4.8	197.4	196.8	515.9	2,130.1	1,471.5
Aug	326.7	395.0	197.1	94.8	27.8	46.2	24.4	4.7	199.6	198.9	525.0	2,115.2	1,464.4
Sep	362.5	389.5	193.2	91.9	28.1	47.5	24.1	4.7	206.6	205.9	520.8	2,095.6	1,448.1
Oct	318.9	390.9	197.9	87.6	28.3	48.3	24.1	4.7	226.5	225.8	529.8	2,086.5	1,431.4
Nov	310.2	394.4	197.6	89.5	29.8	49.0	23.8	4.6	243.4	242.8	526.1	2,100.0	1,446.7
Dec	288.8	379.1	191.1	81.5	31.5	46.8	23.5	4.6	211.6	211.1	499.7	2,081.3	1,437.6
2018 Jan	330.0	378.1	186.2	84.3	31.1	47.5	24.1	5.0	203.8	203.3	519.3	2,075.2	1,442.8
Feb	343.6	382.7	191.4	83.5	30.4	47.8	24.7	4.8	199.3	198.8	508.0	2,077.7	1,434.9
Mar	357.5	375.2	181.3	85.8	29.5	48.6	25.0	4.8	206.9	206.4	506.5	2,082.3	1,439.2
Apr	337.8	382.9	190.3	84.7	28.4	49.7	25.0	4.7	228.0	227.4	518.7	2,090.3	1,440.9
May	344.9 German	contribut		87.2 ion)	29.8	51.0	25.2	4.7	253.2	252.6	507.5	2,093.1	1,434.6
2016 Apr	31.9		58.2	80.3	l 10.9	l 35.6	3.2	0.5	3.7	2.4	3.0	521.8	249.1
May	50.6	196.3	60.4	84.9	11.1	36.2	3.3	0.5	3.5	2.4	2.5	530.9	244.9
June	63.6	199.2	62.2	85.0	11.5	36.6	3.3	0.5	2.5	2.3	2.6	523.0	241.2
July	31.9	199.1	59.9	85.2	13.3	36.8	3.3	0.5	3.4	3.2	2.4	524.2	241.2
Aug	40.6	201.0	61.7	84.6	13.6	37.2	3.4	0.5	3.2	3.2	2.3	524.4	241.5
Sep	49.3	198.3	59.7	83.5	14.0	37.2	3.4	0.5	2.9	2.9	2.4	516.7	240.8
Oct	40.5	195.1	58.8	80.4	14.9	37.2	3.4	0.5	3.2	3.2	2.3	526.0	242.2
Nov	47.4	201.0	59.5	84.2	16.1	37.3	3.3	0.6	3.0	3.0		542.1	251.4
Dec	33.8	199.1	61.6	80.5	16.6	36.6	3.3	0.6	2.2	2.2	2.3	541.3	250.6
2017 Jan	21.2	198.8	55.1	86.6	16.4	36.9	3.2	0.6	4.8	4.8		553.4	261.4
Feb	17.5	201.8	61.5	83.2	15.7	37.7	3.1	0.6	4.5	4.5	2.2 2.1	556.7	262.6
Mar	31.6	199.5	58.7	82.5	16.5	38.2	3.1	0.6	2.6	2.6		551.8	263.6
Apr	25.0	198.9	59.0	79.4	18.8	38.2	3.0	0.6	3.5	3.5	2.1	546.7	264.9
May	32.7	206.1	61.6	81.6	20.6	38.7	3.1	0.6	2.4	2.4	2.1	542.6	263.2
June	39.8	210.9	63.4	82.6	22.0	39.3	3.0	0.6	1.8	1.8	2.1	542.7	266.0
July	42.3	207.8	60.3	81.5	22.6	39.8	3.0	0.7	3.3	3.3	2.1	534.5	264.9
Aug	49.7	212.4	64.0	81.0	23.6	40.1	3.0	0.7	3.4	3.4	2.3	534.4	267.8
Sep	59.5	210.9	63.2	78.5	24.3	41.2	3.0	0.7	2.6	2.6		529.1	264.0
Oct	45.3	208.2	64.4	73.5	24.7	41.9	3.0	0.7	2.3	2.3	2.0	521.8	252.3
Nov	51.7	211.4	65.5	73.0	26.2	43.1	2.9	0.7	2.6	2.6	2.0	518.3	251.1
Dec	61.7	207.7	69.3	66.3	27.8	40.6	2.9	0.7	3.3	3.3	1.7	512.7	256.4
2018 Jan	37.4	204.4	61.6	70.3	27.5	41.4	2.8	0.8	4.3	4.3	1.7	518.8	262.8
Feb	46.7	207.4	66.3	69.2	26.8	41.5	3.0	0.6	3.8	3.8	2.0	522.7	263.8
Mar	55.0	207.6	63.2	72.7	25.8	42.3	3.0	0.6	2.9	2.9	2.2	523.5	265.6
Apr	39.7	207.0	63.1	72.5	24.4	43.3	3.0	0.6	2.4	2.4	2.1	524.1	270.0
May	51.4	217.4	68.6	74.9	25.7	44.5	3.1	0.6	1.6	1.6	1.9	536.4	274.3

^{*} Monetary financial institutions (MFIs) comprise banks (including building and loan associations), money market funds, and the European Central Bank and national central banks (the Eurosystem). 1 Source: ECB. 2 In Germany, only savings deposits. 3 Excluding holdings of MFIs; for the German contribution, excluding German MFIs' portfolios of securities issued by MFIs in the euro area. 4 In Germany, bank debt securities with maturities of up to one year are classed as money market

paper. **5** Excluding liabilities arising from securities issued. **6** After deduction of inter-MFI participations. **7** The German contributions to the Eurosystem's monetary aggregates should on no account be interpreted as national monetary aggregates and are therefore not comparable with the erstwhile German money stocks M1, M2 or M3. **8** including DM banknotes still in circulation (see also footnote 4 on p 10•) **9** For the German contribution, the difference between the volume of

								Memo item					
						Other liabilit	y items	Monetary ag					
issued (net) 3	3								German cont ency in circul]		
With maturit up to 1 year 4	over 1 year and up to 2 years	over 2 years	Liabilities to non- euro-area residents 5	Capital and reserves 6	Excess of inter-MFI liabilities	Total 8	of which Intra- Eurosystem- liability/ claim related to banknote issue 9	M1 10	M2 11	M3 12	Monetary capital forma- tion 13	Monetary liabilities of central govern- ments (Post Office, Treasury) 14	End of year/montl
										Eur	o area (€	billion) ¹	
41.7 39.9 49.8	50.0 49.2 47.2	2,184.2 2,195.4 2,184.8	3,912.4 4,018.4 3,941.0	2,604.4 2,600.9 2,664.9	- 99.6 - 84.0 - 62.8	4,363.3	=	6,815.4 6,867.6 6,901.6	10,399.2 10,440.8 10,472.1	11,070.5 11,110.7 11,131.7	6,977.3 6,980.5 7,014.1	122.7 126.6 127.7	2016 Apr May June
54.6 53.9 48.7	47.8 46.2 46.1	2,155.8 2,153.1 2,132.3	4,071.9 4,113.9 4,069.0	2,678.7 2,676.2 2,698.3	- 105.4 - 85.1 - 45.1	4,435.5	- -	6,967.7 6,962.0 6,984.6	10,543.0 10,533.4 10,550.9	11,225.5 11,214.3 11,216.3	6,991.2 6,980.4 6,969.2	131.5 131.4 131.3	July Aug Sep
53.5 54.6 48.1	43.6 42.9 42.0	2,129.0 2,146.6 2,140.3	4,278.6 4,317.8 4,039.0	2,683.3 2,662.6 2,654.2	- 28.3 - 55.7 - 41.8	4,255.2	- - -	7,043.6 7,145.6 7,193.7	10,568.0 10,659.4 10,734.0	11,250.0 11,345.5 11,399.6	6,948.0 6,939.0 6,959.4	131.8 136.4 135.4	Oct Nov Dec
42.5 47.3 45.9	43.4 44.8 44.9	2,119.5 2,124.6 2,097.9	4,248.8 4,380.1 4,320.4	2,646.2 2,696.3 2,677.0	- 15.8 - 20.2 - 3.0	3,878.0 3,951.6	_	7,183.7	10,734.7 10,769.9 10,859.4	11,418.3 11,452.3 11,555.4	6,914.1 6,963.9 6,917.9	139.1 140.1 140.0	2017 Jan Feb Mar
33.1 39.9 40.4	41.5 41.7 40.8	2,085.8 2,086.8 2,070.5	4,403.3 4,336.3 4,137.3	2,662.8 2,659.2 2,631.1	1.1 3.1 10.0	3,846.5	-	7,406.4 7,437.3 7,516.1	10,925.6 10,938.1 11,007.6	11,602.7 11,618.6 11,658.3	6,877.7 6,862.7 6,800.8	142.1 145.0 145.5	Apr May June
37.5 33.0 41.9	39.2 39.3 38.9	2,053.4 2,042.9 2,014.8	4,182.7 4,179.4 4,157.5	2,616.1 2,647.6 2,650.6	9.6 - 0.7 17.2	3,687.5	- -		11,032.5 11,073.6 11,098.3	11,694.2 11,746.0 11,765.8	6,755.5 6,768.7 6,730.9	148.0 148.5 150.4	July Aug Sep
36.0 40.9 35.8	37.1 37.5 35.3	2,013.4 2,021.7 2,010.1	4,339.4 4,289.2 4,097.5	2,665.6 2,657.4 2,730.1	13.6 46.1 29.4	3,572.0			11,114.4 11,175.5 11,234.5	11,785.5 11,855.7 11,872.9	6,717.8 6,701.0 6,772.0	148.7 151.3 146.0	Oct Nov Dec
28.4 34.9 42.5	29.9 28.5 28.2	2,016.9 2,014.3 2,011.5	4,414.1 4,505.3 4,348.7	2,714.3 2,707.8 2,718.9	- 39.7 - 24.9 - 1.3	2,890.8	- - -		11,221.1 11,217.8 11,281.3	11,869.2 11,863.4 11,929.0	6,753.8 6,745.9 6,748.0	148.1 147.5 147.5	2018 Jan Feb Mar
44.8 38.4	28.3 27.9	2,017.2 2,026.8	4,492.1 4,706.3	2,720.0 2,698.9	13.5 16.9		_	7,886.4 7,994.3	11,317.5 11,419.5				Apr May
											ibution (€	•	
23.9 22.8 23.8	11.7 12.3 11.8	486.1 495.8 487.5	753.1 758.5 783.3	575.6 571.4 592.6	- 823.1 - 834.3	1,577.5 1,670.0	303.9	1,839.6	2,663.6 2,685.7 2,686.4	2,705.9 2,726.9 2,727.1	1,800.7 1,811.5	- - -	2016 Apr May June
30.5 27.4 26.4	12.6 12.5 12.9	481.1 484.5 477.4	807.8 826.1 851.2	595.1 589.2 594.2	- 824.9 - 846.9 - 876.5	1,640.6	311.7 314.1 318.8	1,864.6	2,702.0 2,711.7 2,719.5	2,750.9 2,757.1 2,764.2	1,806.5 1,801.3 1,797.3	- - -	July Aug Sep
25.3 22.7 23.1	13.4 14.6 14.2	487.3 504.7 504.0	899.9 905.9 878.8	585.7 578.4 580.3	- 863.2 - 918.6 - 897.1	1,536.5 1,506.3	323.9 327.3	1,917.2 1,912.6	2,721.9 2,762.9 2,759.2	2,766.1 2,805.6 2,801.0	1,800.2 1,809.3 1,808.4	- - -	Oct Nov Dec
22.8 22.2 19.5	14.4 15.2 15.9	516.2 519.2 516.4	930.2 972.2 979.6	575.5 587.9 586.5	- 926.5 - 944.3 - 957.7	1,484.8		1,943.0	2,784.9 2,797.0 2,801.0	2,829.2 2,841.1 2,841.1	1,811.9 1,825.3 1,819.5	- - -	2017 Jan Feb Mar
17.7 18.4 19.3	16.9 16.8 16.4	512.1 507.4 507.0	985.8 957.7 946.6	597.9 595.0 591.5	- 965.5 - 967.6 - 981.1	1,461.9		1,972.1	2,803.4 2,821.5 2,841.2	2,843.5 2,861.2 2,880.9	1,822.6 1,814.4 1,808.1	- - -	Apr May June
18.8 18.5 19.3	16.2 15.8 15.4	499.5 500.0 494.4	926.1 894.5 927.7	589.1 597.2 594.2	- 975.5 - 970.2 - 982.9	1,422.2	348.6	2,002.3	2,835.9 2,846.8 2,853.5	2,876.2 2,886.8 2,893.0	1,793.6 1,801.4 1,792.0	- - -	July Aug Sep
18.6 18.5 17.7	15.7 15.8 14.8	487.5 484.0 480.2	913.6 883.4 921.3	596.3 593.7 668.6	- 946.7 - 940.3 - 999.6	1,382.0	355.5	2,056.1	2,859.6 2,890.9 2,882.9	2,898.2 2,929.9 2,920.4	1,785.4 1,781.9 1,852.1	- - -	Oct Nov Dec
16.0 16.7 16.0	14.3	488.5 491.6 493.6	931.6 968.4 953.5	656.8 653.3 657.7	- 974.7 - 1,003.8 - 1,016.5	1,263.2		2,062.1	2,894.2 2,896.6 2,901.1	2,930.5 2,933.5 2,936.2	1,846.2 1,844.1 1,847.4	- - -	2018 Jan Feb Mar
17.5 18.6		494.3 504.7	949.7 998.3	658.7 662.3	- 1,002.9 - 1,044.2				2,907.0 2,946.8	2,941.3 2,982.0	1,848.1 1,862.6	_	Apr May

euro banknotes actually issued by the Bundesbank and the amount disclosed in accordance with the accounting regime chosen by the Eurosystem (see also footnote 2 on banknote circulation in Table III.2). 10 Overnight deposits (excluding central governments' deposits), and (for the euro area) currency in circulation, central governments' overnight monetary liabilities, which are not included in the consolidated balance sheet. 11 M1 plus deposits with agreed maturities of up to 2

years and at agreed notice of up to 3 months (excluding central governments' deposits) and (for the euro area) central governments' monetary liabilities with such maturities. 12 M2 plus repo transactions, money market fund shares, money market paper and debt securities up to 2 years. 13 Deposits with agreed maturities of over 2 years and at agreed notice of over 3 months, debt securities with maturities of over 2 years, capital and reserves. 14 Non-existent in Germany.

- II Overall monetary survey in the euro area
- 3 Banking system's liquidity position * Stocks

€ billion; period averages of daily positions

	Liquidity-prov	iding factors	dully positions			Liquidity-abs	orbing factors					
	Liquidity prov		cy operations	of the Eurosys	tem	Liquidity abs	orbing factors					
		monetary pos									Credit institutions' current account	
Reserve maintenance period ending in 1	Net assets in gold and foreign currency	Main refinancing operations	Longer- term refinancing operations	Marginal lending facility	Other liquidity- providing operations 3	Deposit facility	Other liquidity- absorbing operations 4	Banknotes in circulation 5	Central government deposits	Other factors (net) 6	balances (including minimum reserves) 7	Base money 8
chaing in	Eurosyst	em 2										
2016 Jan Feb	611.6	71.6	466.9	0.2	811.8	196.6	0.0	1 072.8	82.5	53.2	557.1	1 826.5
Mar	607.8	62.9	461.7	0.1	907.6	230.5	0.0	1 063.4	115.6	73.9	556.5	1 850.4
Apr May	627.3	58.1	460.8	0.2	1 000.1	262.0	0.0	1 069.3	147.4	97.7	570.0	1 901.3
June July	640.3 666.1	53.9 47.6	456.3 471.6	0.2 0.1	1 105.3 1 227.1	309.0 323.1	0.0	1 076.6 1 087.1	123.9 175.5	122.8 169.4	623.8 657.5	2 009.4 2 067.7
Aug Sep	685.0	43.5	483.7	0.0	1 339.7	355.1	0.0	1 096.2	137.8	214.0	748.8	2 200.2
Oct	687.8	37.4	503.5	0.1	1 447.0	387.3	0.0	1 094.7	168.3	248.0	777.4	2 259.4
Nov Dec	687.4	34.0	511.8	0.2	1 570.2	439.4	0.0	1 103.1	159.7	277.6	823.9	2 366.3
2017 Jan Feb	674.7	34.6	548.9	0.2	1 670.8	434.4	0.0	1 119.1	143.1	313.6	919.0	2 472.6
Mar	662.4	29.0	554.3	0.3	1 787.5	479.2	0.0	1 110.8	160.3	322.2	960.9	2 550.9
Apr May June	678.6 683.1	18.5 13.7	707.4 767.4	0.3 0.2	1 905.3 1 995.0	550.0 593.7	0.0 0.0	1 118.4 1 126.0	182.0 163.6	378.8 397.4	1 081.1 1 178.7	2 749.4 2 898.5
July	656.9	9.4	767.4	0.2	2 076.1	595.3	0.0	1 136.3	229.8	379.4	1 169.2	2 900.8
Aug Sep	639.0	5.5	768.6	0.3	2 150.2	611.4	0.0	1 142.5	181.8	385.1	1 242.7	2 996.7
Oct Nov	635.0	6.7	765.3	0.2	2 239.2	648.1	0.0	1 142.8	218.3	383.9	1 253.3	3 044.2
Dec	634.5	3.0	763.7	0.2	2 333.5	682.5	0.0	1 146.6	188.5	407.6	1 309.7	3 138.8
2018 Jan Feb Mar	635.7 630.9	2.9 1.5	760.6 760.5	0.2 0.0	2 398.2 2 435.5	689.2 686.3	0.0 0.0	1 158.2 1 148.2	188.1 203.6	487.0 474.9	1 275.2 1 315.6	3 122.5 3 150.1
Apr May June	627.1 625.2	1.9 1.8	759.5 757.3	0.1 0.1	2 476.8 2 519.9	668.0 659.5	0.0 0.0	1 159.0 1 170.4	247.5 218.0	495.6 502.5	1 295.3 1 353.9	3 122.3 3 183.8
	Deutsche	Bundesba	ank									
2016 Jan Feb	144.8	3.6	48.4	0.1	174.0	50.0	0.0	252.4	18.0	- 124.0	174.4	476.8
Mar	143.7	1.9	46.3	0.0	193.9	59.8	0.0	250.4	26.1	- 113.3	162.9	473.1
Apr May	152.2	3.1	45.0	0.0	214.1	67.6	0.0	252.1	37.3	- 105.1	162.4	482.1
June	156.4 163.3	3.3 2.7	45.3 44.7	0.0	237.2 263.4	87.3 89.8	0.0	254.7 257.4	41.1 47.2	- 127.2 - 117.0	186.5 196.6	528.4 543.9
July Aug	168.3	1.9	44.7	0.0	288.2	90.8	0.0	257.4	36.2	- 117.0 - 112.6	229.3	578.9
Sep Oct	168.7	1.5	50.6	0.0	311.9	105.2	0.0	258.6	50.5	- 112.6 - 125.2	243.6	607.4
Nov Dec	167.7	0.9	54.0	0.0	339.2	129.7	0.0	260.3	43.7	– 141.9	270.0	660.0
2017 Jan	163.8	0.9	62.0	0.0	361.5	132.7	0.0	264.2	35.4	- 146.1	302.0	698.9
Feb Mar	159.4	0.8	63.5	0.0	386.6	153.7	0.0	262.3	23.1	- 169.8	341.0	757.0
Apr May June	164.4 165.8	1.0 0.3	86.0 95.0	0.1 0.0	412.4 431.8	181.4 181.2	0.0 0.0	264.1 266.2	29.7 32.4	- 185.3 - 204.9	374.0 418.0	819.5 865.4
July	159.6	0.5	95.0	0.0	447.9	170.1	0.0	269.0	52.7	- 201.6	412.7	851.9
Aug Sep	155.2	0.3	94.9	0.0	463.2	165.5	0.0	269.9	52.4	- 192.6	418.5	853.9
Oct Nov	154.8	0.3	94.9	0.0	481.5	171.0	0.0	269.4	65.9	- 197.6	422.7	863.2
Dec	154.2	0.5	94.8	0.0	501.4	187.5	0.0	270.3	56.0	- 218.6	455.8	913.6
2018 Jan Feb	155.5	0.9	93.3	0.0	514.7	204.4	0.0	272.8	54.9	- 192.2	424.5	901.7
Mar Apr	151.5	0.6	93.4	0.0	522.9	207.9	0.0	271.0	56.8	- 221.3	453.9	932.8
May June	150.7 150.1	1.1 1.1	93.3 93.1	0.0	530.6 540.6	190.8 200.3	0.0 0.0	273.8 277.4	61.1 59.2	- 191.3 - 217.9	440.9 466.0	905.5 943.6

Discrepancies may arise from rounding. * The banking system's liquidity position is defined as the current account holdings in euro of euro-area credit institutions with the Eurosystem. Amounts are derived from the consolidated financial statement of the Eurosystem and the financial statement of the Bundesbank. 1 Figures a daily averages for the reserve maintenance period ending in the month indicated. Following the changeover in the frequency of Governing Council monetary policy meetings to a six-week cycle, a reserve maintenance period no longer ends in every month. No

figures are available in such cases. **2** Source: ECB. **3** Includes liquidity provided under the Eurosystem's securities purchase programmes. **4** From Aug. 2009, includes liquidity absorbed as a result of the Eurosystem's foreign exchange swap operations. **5** From 2002, euro banknotes and other banknotes which have been issued by the national central banks of the Eurosystem and which are still in circulation. In accordance with the accounting procedure chosen by the Eurosystem for the issue of euro banknotes, 8% of the total value of the euro banknotes in circulation are

Flows

Liquid	ity-prov	viding fac	ctors							Liquid	ity-ab	sorbing fa	ictors											
		Monet	ary pol	icy opera	ations	of the Eu	ırosys	stem]										
Net as in gold and fo currer	d oreign	Main refinan operati		Longer term refinan operati	cing	Margin lending facility		Other liquidit providi operati	ng	Depos facility		Other liquidity absorbir operatio	ng	Bankno in circulat		Central governm deposits	nent	Other factors (net) 6		Credit institution current account balances (includin minimur reserves	s ng m	Base money	8	Reserve maintenance period ending in 1
																					Eur	osyste	em 2	
-	0.6	+	5.5	+	7.6	+	0.1	+	81.1	+	23.5	l ±	0.0	+	16.3	-	11.0	+ 1	1.7	+	63.3	+	103.1	2016 Jan Feb
-	3.8	-	8.7	-	5.2	-	0.1	+	95.8	+	33.9	±	0.0	-	9.4	+	33.1	+ 20	0.7	-	0.6	+	23.9	Mar
+	19.5	-	4.8	-	0.9	+	0.1	+	92.5	+	31.5	l ±	0.0	+	5.9	+	31.8	+ 23	3.8	+	13.5	+	50.9	Apr May
+	13.0	-	4.2	-	4.5	±	0.0	+	105.2	+	47.0	±	0.0	+	7.3	-	23.5	+ 25	5.1	+	53.8	+	108.1	June
+	25.8	-	6.3	+	15.3	-	0.1	+	121.8	+	14.1	l ±	0.0	+	10.5	+	51.6	+ 46	5.6	+	33.7	+	58.3	July Aug
+	18.9	-	4.1	+	12.1	-	0.1	+	112.6	+	32.0	±	0.0	+	9.1	-	37.7	+ 44	4.6	+	91.3	+	132.5	Sep
+	2.8	-	6.1	+	19.8	+	0.1	+	107.3	+	32.2	±	0.0	-	1.5	+	30.5	+ 34	1.0	+	28.6	+	59.2	Oct Nov
-	0.4	-	3.4	+	8.3	+	0.1	+	123.2	+	52.1	l ±	0.0	+	8.4	-	8.6	+ 29	9.6	+	46.5	+	106.9	Dec
-	12.7	+	0.6	+	37.1	±	0.0	+	100.6	-	5.0	±	0.0	+	16.0	-	16.6	+ 36	5.0	+	95.1	+	106.3	2017 Jan Feb
-	12.3	-	5.6	+	5.4	+	0.1	+	116.7	+	44.8	±	0.0	-	8.3	+	17.2	+ 8	3.6	+	41.9	+	78.3	Mar
+	16.2	_	10.5	+	153.1	l ±	0.0	+	117.8	+	70.8	±	0.0	+	7.6	+	21.7	+ 56	5.6	+	120.2	+	198.5	Apr May
+	4.5	-	4.8	+	60.0	=	0.1	+	89.7	+		l ±	0.0	+	7.6	-	18.4		3.6	+	97.6	+	149.1	June
-	26.2	-	4.3	±	0.0	±	0.0	+	81.1	+	1.6	±	0.0	+	10.3	+	66.2	- 18	3.0	-	9.5	+	2.3	July Aug
-	17.9	-	3.9	+	1.2	+	0.1	+	74.1	+	16.1	l ±	0.0	+	6.2	-	48.0	+ 5	5.7	+	73.5	+	95.9	Sep
-	4.0	+	1.2	-	3.3	-	0.1	+	89.0	+	36.7	l ±	0.0	+	0.3	+	36.5	- 1	1.2	+	10.6	+	47.5	Oct Nov
-	0.5	-	3.7	-	1.6	±	0.0	+	94.3	+	34.4	+ ±	0.0	+	3.8	-	29.8	I		+	56.4	+	94.6	Dec
+	1.2	-	0.1	-	3.1	±	0.0	+	64.7	+	6.7	±	0.0	+	11.6	-	0.4	+ 79	9.4	-	34.5	-	16.3	2018 Jan Feb
-	4.8	-	1.4	-	0.1	-	0.2	+	37.3	-	2.9	±	0.0	-	10.0	+	15.5	- 12	2.1	+	40.4	+	27.6	Mar
_	3.8	+	0.4	_	1.0	+	0.1	+	41.3	_	18.3	l ±	0.0	+	10.8		43.9	+ 20).7	_	20.3	_	27.8	Apr May
-	1.9		0.1	l –	2.2	l ±	0.0	+	43.1		8.5		0.0		11.4		29.5		5.9	+	58.6	+	61.5	June
																			D	eutsch	ie Bu	ndesk	ank	
-	1.3	+	0.5	+	5.1	+	0.1	+	17.7	-	6.0	l ±	0.0	+	3.3	+	8.7	- 2	7.6	+	23.7	+	21.0	2016 Jan
_	1.0	_	1.7	_	2.1	_	0.0	+	19.9	+	9.8	±	0.0	_	2.1	+	8.1	+ 10).7).7	_	11.5	_	3.8	Feb Mar
+		+	1.1	-	1.3	+	0.0	+	20.3		7.8		0.0		1.7	+	11.3	1	3.2	_	0.4	+	9.0	Apr
+	4.3	+	0.3	+	0.4	_	0.0	+	23.1	+	19.7	l ±	0.0	+	2.6	+	3.8	- 22	2.1	+	24.1	+	46.3	May June
+	6.9	-	0.6	-	0.6	-	0.0	+	26.2	+	2.6		0.0	+	2.8	+	6.1	+ 10	0.2	+	10.1	+	15.4	July
+	5.1	-	0.8	_	0.7	_	0.0	+	24.8	+	1.0	l ±	0.0	+	1.3	_	11.0	+ 4	1.4	+	32.7	+	35.0	Aug Sep
+	0.4	-	0.5	+	6.6	+	0.0	+	23.7	+	14.4		0.0	-	0.1	+	14.3	- 12	2.6	+	14.2	+	28.5	Oct
-	0.9	-	0.5	+	3.3	+	0.0	+	27.3	+	24.4	±	0.0	+	1.7	_	6.8	- 16	5.7	+	26.5	+	52.6	Nov Dec
-	4.0	-	0.1	+	8.1	-	0.0	+	22.3	+	3.0	±	0.0	+	3.9	_	8.3	4	1.3	+	31.9	+	38.8	2017 Jan
-	4.4	-	0.0	+	1.4	+	0.0	+	25.1	+	21.0	±	0.0	_	1.9	_	12.2	- 23	3.6	+	39.0	+	58.1	Feb Mar
Ι.			0.1	l .	22.6				25.0	l .		l .				l .		,,	ا : .					Apr
+ +			0.1 0.7	+ +	22.6 9.0	+	0.0 0.1	+ +	25.9 19.4		27.7 0.2		0.0 0.0		1.8 2.1	+ +	6.6 2.6		9.6	++	33.0 44.0	+ +	62.5 45.9	May June
-	6.2	+	0.2	+	0.0	+	0.0	+	16.1	-	11.1		0.0	+	2.8	+	20.3	+ 3	3.3	-	5.3	-	13.6	July
-	4.4	-	0.2	-	0.1	+	0.0	+	15.4	-	4.6	±	0.0	+	0.9	-	0.2	+ 9	9.0	+	5.8	+	2.1	Aug Sep
-	0.4	-	0.1	-	0.1	-	0.0	+	18.3	+	5.5	±	0.0	-	0.5	+	13.5	- 5	5.0	+	4.2	+	9.2	Oct
-	0.6	+	0.2	-	0.0	-	0.0	+	19.9	+	16.5	±	0.0	+	0.9	-	9.9	- 2°	1.0	+	33.1	+	50.4	Nov Dec
+	1.3	+	0.4	-	1.6	-	0.0	+	13.3	+	16.9	±	0.0	+	2.5	-	1.1	+ 26	5.4	-	31.3	-	11.9	2018 Jan Feb
-	4.0	-	0.3	+	0.1	+	0.0	+	8.2	+	3.5	±	0.0	-	1.7	+	1.9	- 29	9.1	+	29.4	+	31.1	Mar
_	0.8 0.6		0.5 0.0	_	0.0 0.2	+ -	0.0 0.0	+ +	7.7 10.0		17.0 9.5		0.0 0.0		2.8 3.6	<u>+</u>	4.2 1.8			_ +	13.0 25.1	-+	27.3 38.1	Apr May June

allocated on a monthly basis to the ECB. The counterpart of this adjustment is shown under "Other factors". The remaining 92% of the value of the euro banknotes in circulation is allocated, likewise on a monthly basis, to the NCBs, with each NCB showing in its balance sheet the percentage of the euro banknotes in circulation that corresponds to its paid-up share in the ECB's capital. The difference between the value of the euro banknotes allocated to an NCB and the value of the euro banknotes which that NCB has put into circulation is likewise shown under

"Other factors". From 2003 euro banknotes only. **6** Remaining items in the consolidated financial statement of the Eurosystem and the financial statement of the Bundesbank. **7** Equal to the difference between the sum of liquidity-providing factors and the sum of liquidity-absorbing factors. **8** Calculated as the sum of the "deposit facility", "banknotes in circulation" and "credit institutions' current account holdings".

1 Assets *

€ billion

	C Billion		Claims on non-eur	o area residents de	nominated		Claims on non-euro residents denominat		
On reporting date	Total assets	Gold and gold receivables	Total	Receivables from the IMF	Balances with banks, security investments, external loans and other external assets	Claims on euro area residents denominated in foreign currency	Total	Balances with banks, security investments and loans	Claims arising from the credit facility under ERM II
	Eurosystem	1							
2017 Dec 22	4,487.3	379.0	300.6	70.7	230.0	39.4	16.5	16.5	
29	4,471.7	376.5	296.2	70.2	226.0	38.1	19.4	19.4	
2018 Jan 5	4,466.0	376.3	294.6	70.2	224.4	38.6	16.1	16.1	-
12	4,472.7	376.3	295.5	70.2	225.3	28.9	14.5	14.5	-
19	4,484.0	376.3	297.6	70.2	227.4	29.9	15.8	15.8	-
26	4,493.1	376.3	296.4	70.1	226.3	29.1	15.7	15.7	-
Feb 2	4,491.2	376.3	295.9	70.0	225.9	32.7	16.1	16.1	-
9	4,493.7	376.3	297.1	69.9	227.3	32.5	16.8	16.8	-
16	4,504.8	376.3	296.8	69.9	226.9	34.7	17.4	17.4	-
23	4,511.5	376.3	296.2	69.9	226.3	35.4	17.4	17.4	-
Mar 2 9 16 23 30	4,519.4 4,530.1 4,532.6 4,539.1	376.3 376.3 376.3 376.3 374.1	297.1 299.6 300.2 304.6	69.9 69.9 69.8 69.8 69.3	227.2 229.7 230.4 234.7	34.5 32.5 29.6 26.5 26.6	16.6 18.7 17.8 18.5	16.6 18.7 17.8 18.5	- - - -
2018 Apr 6 13 20 27	4,529.6 4,531.5 4,548.2 4,544.0 4,554.3	374.1 374.1 374.1 374.1 374.1	299.6 297.2 294.8 294.9 296.2	69.3 69.3 69.3 69.4	230.3 227.9 225.5 225.6 226.8	25.6 25.7 29.5 28.9 28.6	17.7 17.1 17.7 15.4 18.8	17.7 17.1 17.7 15.4 18.8	- - - - -
May 4	4,552.6	374.1	295.8	69.3	226.5	28.8	17.0	17.0	-
11	4,562.1	374.1	296.6	69.3	227.4	26.5	17.3	17.3	-
18	4,561.6	374.1	295.8	69.3	226.5	26.1	17.1	17.1	-
25	4,562.7	374.1	299.8	69.2	230.6	25.7	13.9	13.9	-
June 1 8 15 22 29	4,567.7 4,577.2 4,578.5 4,585.6 4,592.5	374.1 374.1 374.1 374.0 373.2	298.5 301.0 301.9 305.5 317.8	69.2 69.2 69.2 72.0 73.7	229.3 231.8 232.8 233.5 244.1	27.0 26.2 24.4 21.8 18.6	15.8 15.8 15.8 16.3 17.4	15.8 15.8 15.8 16.3 17.4	- - -
July 6	4,593.3	373.2	314.3	73.7	240.6	22.0	16.7	16.7	-
	Deutsche Bu	undesbank							
2017 Dec 22	1 721.8	118.2	50.3	18.4	31.9	7.2	1.4	1.4	-
29	1 727.7	117.3	49.5	18.3	31.2	7.2	4.4	4.4	
2018 Jan 5	1 690.6	117.3	49.6	18.3	31.3	7.2	1.5	1.5	-
12	1 673.4	117.3	49.6	18.3	31.3	0.1	1.4	1.4	-
19	1 682.7	117.3	50.0	18.3	31.7	0.1	1.8	1.8	-
26	1 653.8	117.3	49.5	18.2	31.3	0.1	2.0	2.0	-
Feb 2	1 710.7	117.3	49.5	18.2	31.3	0.0	2.3	2.3	-
9	1 712.9	117.3	49.5	18.1	31.4	0.0	2.2	2.2	-
16	1 731.0	117.3	49.8	18.1	31.6	0.0	2.0	2.0	-
23	1 712.4	117.3	50.2	18.1	32.0	0.0	1.9	1.9	-
Mar 2	1 738.6	117.3	49.9	18.1	31.8	0.0	1.1	1.1	-
9	1 720.8	117.3	49.3	18.1	31.2	0.0	3.4	3.4	-
16	1 713.8	117.3	49.1	18.1	31.0	0.0	1.8	1.8	-
23	1 725.0	117.3	49.8	18.1	31.6	- 0.0	2.1	2.1	-
30	1 756.2	116.6	49.2	18.0	31.2	0.0	1.5	1.5	-
2018 Apr 6	1 717.4	116.6	48.9	18.0	30.8	0.0	1.5	1.5	-
13	1 712.7	116.6	49.6	18.0	31.6	0.0	2.4	2.4	-
20	1 681.8	116.6	49.0	18.0	31.0	0.0	0.9	0.9	-
27	1 706.5	116.6	48.6	18.0	30.6	0.0	2.7	2.7	-
May 4	1 730.7	116.6	48.7	18.0	30.7	0.0	1.8	1.8	-
11	1 700.4	116.6	48.4	18.0	30.4	0.0	2.4	2.4	-
18	1 752.4	116.6	48.1	18.0	30.1	0.0	2.8	2.8	-
25	1 777.6	116.6	48.8	18.0	30.9	0.0	0.8	0.8	-
June 1	1 799.4	116.6	48.4	18.0	30.4	0.0	2.7	2.7	-
8	1 783.7	116.6	48.4	18.0	30.4	0.0	1.5	1.5	-
15	1 794.6	116.6	48.4	18.0	30.3	0.0	1.3	1.3	-
22	1 793.2	116.5	49.1	18.8	30.3	0.0	1.7	1.7	-
29	1 823.0	116.3	50.8	19.2	31.6	0.0	1.8	1.8	-
July 6	1 744.4	116.3	50.9	19.2				l	-

 $^{^\}star$ The consolidated financial statement of the Eurosystem comprises the financial statement of the European Central Bank (ECB) and the financial statements of the

iding to e nominated		dit institutions	related to m	onetary poli	cy operations	; 		Securities of e	euro area reside	ents				
al	Main re- financing opera- tions	Longer- term re- financing opera- tions	Fine- tuning reverse opera- tions	Structural reverse opera- tions	Marginal lending facility	Credits related to margin calls	Other claims on euro area credit institutions denomi- nated in euro	Total	Securities held for monetary policy purposes	Other securities	General government debt deno- minated in euro	Other assets	On reporting date	g
											Euro	system ¹		
764.3 764.3		760.6 760.6		_	0.3 0.3	-	43.1 37.6	2 668.3 2 660.7		275.0 274.7	25.1 25.0	250.9 254.0	2017 Dec	2
763.6 763.7 763.3 762.8		760.6 760.6 760.6 760.6	- - -	- - - -	0.1 0.1 0.2 0.1	- - -	35.2 46.2 47.7 49.5	2 662.4 2 672.9 2 679.3 2 688.7	2 399.0	273.5 273.9 272.7 273.4	25.0 25.0 25.0 25.0	254.2 249.7 249.1 249.5	2018 Jan	
762.6 762.2 762.1 762.2	1	760.7 760.7 760.7 760.7 760.7	- - - -	- - - -	0.0 0.0 0.1 0.0	- - - -	51.5 45.5 47.0 48.5	2 685.3 2 694.9 2 703.0 2 708.4	2 416.1 2 425.2 2 433.3	269.1 269.7 269.7 269.7 270.0	25.0 25.0 25.0 25.0 25.0	245.7 243.3 242.6 242.2	Feb	,
762.0 761.4 761.3 761.9 761.9	1.7 1.1	760.3 760.3 760.3 760.3 759.3	- - - - -	- - - -	0.0 - - 0.1 0.2	- - - - -	49.1 49.0 48.7 50.2 48.5	2 715.6 2 725.1 2 731.2 2 738.0 2 732.7	2 445.2 2 454.6 2 461.0	270.4 270.5 270.2 269.4 268.1	25.0 25.0 25.0 25.0 24.9	243.1 242.7 242.6 238.1 243.5	Mai	r
761.6 761.5 761.0 761.9	2.3 1.7 1.6	759.3 759.3 759.3 759.1	- - - -	0.0 - -	0.6 0.1 0.0	- - - -	44.9 47.4 48.7 50.0	2 742.4 2 753.7 2 751.5 2 760.8	2 474.5 2 486.3 2 485.6	268.0 267.4 265.9 264.2	24.9 24.9 24.9 24.9	243.5 244.4 244.5 239.1	2018 Apr	
761.7 761.1 758.7 759.0	2.6 2.0 2.0 2.1	759.1 759.1 756.6 756.6	- - - -	- - - -	0.0 0.1 0.1 0.2	- - - -	48.3 50.6 47.6 47.3	2 762.2 2 771.7 2 777.9 2 781.1	2 509.0	262.8 262.6 263.7 263.3	24.9 24.9 24.9 24.9	239.8 239.2 239.5 236.9	Mag	у
758.3 757.8 757.8 758.2	1.1 1.5	756.6 756.6 756.6 756.6	- -	-	0.1 0.0 0.1 0.1	- - - -	48.9 46.3 46.7 43.9	2 785.3 2 794.7 2 795.5 2 803.7	2 533.1 2 535.1 2 544.0	261.3 261.7 260.4 259.7	24.9 24.9 24.9 24.9	235.0 236.3 237.3 237.2	Jun	e
744.8 744.3	1	742.0 742.0	- -	-	0.1	-	39.2 37.9	2 806.1 2 810.7	2 547.0 2 551.8	259.1 258.9	24.5 24.5	250.9 249.8	July	,
										Deu	itsche Bun	desbank		
94.3 94.3		93.3 93.3	_	_	0.0		3.8 0.5	513.7 512.1			4.4 4.4	928.3 937.9	2017 Dec	=
94.2 94.3 94.0 94.1		93.3 93.3 93.3 93.3	- - - -	- - -	0.0 0.0 -	- - - -	1.8 3.5 3.5 3.7	512.7 515.1 516.8 517.7	515.1 516.8	- - - -	4.4 4.4 4.4 4.4	901.9 887.8 894.9 865.0	2018 Jan	
94.0 93.8 93.8 94.0		93.4 93.4 93.4 93.4		- - -	0.0 - - -	- - - -	3.3 3.8 3.4 3.7	518.5 521.6 522.7 522.7	521.6 522.7	- - - -	4.4 4.4 4.4 4.4	921.4 920.0 937.4 918.2	Feb	,
94.2 93.8 93.8 93.9 94.7	0.4	93.4 93.4 93.4 93.4 93.3	- - - - -	-	- 0.0 0.0 0.1	- - - - -	3.9 4.3 4.4 3.9 5.1	524.9 526.8 527.3 529.7 529.0	527.3 529.7	- - - -	4.4 4.4 4.4 4.4 4.4	942.8 921.3 915.6 923.8 955.7	Mai	r
94.6 94.2 94.2 95.2	0.9 0.9 2.0	93.3 93.3 93.3 93.2	- - - -		0.0 0.0 -	- - - -	4.4 4.5 3.9 3.8	531.2 532.5 530.3 533.2	530.3 533.2	- - - -	4.4 4.4 4.4 4.4	915.7 908.3 882.4 901.9	2018 Apr	
95.1 94.7 94.5 94.6	1	93.2 93.2 93.2 93.2	- - - -		0.0 0.0 - -	- - - -	3.8 6.0 5.4 6.0	535.4 537.5 539.2 540.1	537.5 539.2 540.1	- - - -	4.4 4.4 4.4 4.4	924.8 890.5 941.3 966.1	Ma <u>y</u>	
93.8 93.4 93.4 93.4 92.0	0.3 0.3 0.3	93.1 93.1 93.1 93.1 91.6	- - - -		0.0 0.0 0.0 0.0 0.0	- - - - -	6.8 6.1 5.8 6.2 3.8	542.2 544.6 542.9 546.2 546.8	542.9 546.2	- - - - -	4.4 4.4 4.4 4.4 4.4	984.6 968.6 981.8 975.6 1 007.0	Jun _'	e
91.9	1	91.6	-		_	-	6.4		1	_	4.4	929.4	July	,

end of the quarter. 1 Source: ECB.

2 Liabilities *

€ billion

		€ DIIIION												
						redit instituti ons denomir						Liabilities to other euro a		
On reporting date		Total liabilities	Banknotes in circu- lation 1	Total	Current accounts (covering the minimum reserve system)	Deposit facility	Fixed- term deposits	Fine- tuning reverse opera- tions	Deposits related to margin calls	Other liabilities to euro- area credit institutions deno- minated in euro	Debt certifi- cates issued	denominated	General govern- ment	Other liabilities
		Eurosyste	m ³											
2017 Dec	22 29	4,487.3 4,471.7	1,168.2 1,170.7	1,942.8 1,881.6	1,266.5 1,185.8	676.2 695.8	_		- 0.0 - 0.0			295.8 287.6	177.5 168.5	118.3 119.2
2018 Jan	5 12 19 26	4,466.0 4,472.7 4,484.0 4,493.1	1,162.6 1,154.9 1,149.5 1,146.4	1,962.0 1,995.2 1,987.8 1,998.1	1,262.5 1,291.5 1,294.8 1,316.7	699.4 703.5 692.9 681.2	- - - -		- 0.0 - 0.1 - 0.1 - 0.1	2 8.6 1 11.7		280.1 298.9 317.0 349.8	163.7 183.1 198.7 230.6	116.4 115.8 118.3 119.2
Feb	2 9 16 23	4,491.2 4,493.7 4,504.8 4,511.5	1,148.9 1,149.5 1,147.9 1,146.0	2,021.1 2,023.5 1,986.8 1,958.5	1,330.9 1,329.4 1,294.5 1,280.8	690.2 694.0 692.2 677.6	- - - -		- 0.0 - 0.0 - 0.0 - 0.0	2 12.4 0 12.3	- - - -	296.1 303.6 342.2 374.3	173.1 184.0 219.5 250.2	123.0 119.6 122.6 124.1
Mar	2 9 16 23 30	4,519.4 4,530.1 4,532.6 4,539.1 4,529.6	1,149.7 1,150.2 1,150.1 1,154.2 1,164.2	2,009.8 2,021.6 1,959.5 1,925.7 1,883.4	1,347.2 1,337.3 1,295.8 1,263.9 1,236.2	662.5 684.1 663.5 661.8 647.2	- - - -		- 0. - 0.: - 0.: - 0.:	2 13.9 2 12.8 0 14.7	- - - -	316.2 315.6 369.4 405.0 363.8	190.4 189.1 241.2 275.7 237.8	125.8 126.5 128.2 129.4 126.0
2018 Apr	6 13 20 27	4,531.5 4,548.2 4,544.0 4,554.3	1,161.8 1,159.9 1,159.4 1,165.2	1,989.2 1,994.3 1,973.4 1,983.7	1,298.6 1,311.4 1,293.3 1,342.2	690.4 682.9 680.0 641.3	- - - -		- - - - - - 0.0	0 8.9 0 10.7	- - - -	355.5 370.1 383.8 377.1	229.6 244.3 265.2 254.4	125.9 125.8 118.6 122.6
May	4 11 18 25	4,552.6 4,562.1 4,561.6 4,562.7	1,168.9 1,169.4 1,169.5 1,167.4	2,022.2 2,032.4 1,997.5 1,968.8	1,361.8 1,359.8 1,338.3 1,321.8	660.4 672.5 659.1 647.0	- - - -		0. 0. 0. 0.	1 10.9 1 9.2 1 7.2	- - - -	319.9 337.3 376.1 402.8	194.0 210.8 246.5 266.6	126.0 126.6 129.6 136.2
June	1 8 15 22 29	4,567.7 4,577.2 4,578.5 4,585.6 4,592.5	1,172.1 1,173.8 1,174.3 1,175.0 1,181.5	2,049.1 2,051.5 1,986.6 1,954.5 1,906.0	1,382.3 1,383.0 1,344.2 1,311.9 1,231.8	666.7 668.3 642.3 642.4 674.2	- - - -		- 0. - 0. - 0. - 0	1 9.7 1 7.9 2 8.1	- - - -	310.6 309.3 367.4 402.9 374.2	176.8 175.5 230.6 263.6 239.6	133.8 133.9 136.7 139.3 134.5
July	6	4,593.3	1,185.5	2,004.6	1,329.6	674.9	-		- 0.	1 9.1	-	350.0	221.0	129.0
		Deutsche	Bundesba	nk										
2017 Dec	22 29	1 721.8 1 727.7	278.8 275.4		442.2 392.8	191.2 217.0	<u>-</u>		- 0.0 - 0.0		_	122.2 118.8	70.2 67.0	51.9 51.8
2018 Jan	5 12 19 26	1 690.6 1 673.4 1 682.7 1 653.8	272.3 270.9 269.9 269.4	637.6 629.4 633.1 629.9	426.7 420.4 426.1 419.6	210.9 209.1 207.0 210.3	- - - -		- 0.0 - 0.0 - 0.0	0 3.5 0 5.4	- - - -	94.7 95.1 99.1 102.3	43.6 44.3 46.7 50.5	51.0 50.8 52.4 51.8
Feb	2 9 16 23	1 710.7 1 712.9 1 731.0 1 712.4	270.7 271.7 271.4 271.3	668.3 672.8 660.4 638.5	448.7 458.8 454.3 442.8	219.6 214.0 206.1 195.7	- - - -		- 0.0 - 0.0 - 0.0	5.8 0 5.5	- - - -	99.6 101.9 127.5 124.5	45.1 51.6 73.9 67.4	54.5 50.3 53.6 57.1
Mar	2 9 16 23 30	1 738.6 1 720.8 1 713.8 1 725.0 1 756.2	270.9 271.7 272.0 276.6 273.8	680.2 657.2 620.5 626.2 633.1	464.7 460.4 433.8 437.0 442.4	215.5 196.8 186.8 189.3 190.6	- - - - -		- 0.0 - 0.0 - 0.0 - 0.0	0 6.8 0 6.2 0 5.8	_	104.5 111.3 137.6 136.5 114.5	46.6 52.6 75.4 73.9 55.9	57.8 58.6 62.2 62.6 58.6
2018 Apr	6 13 20 27	1 717.4 1 712.7 1 681.8 1 706.5	272.8 273.0 273.1 275.6	645.7 638.7 617.5 634.6	454.5 444.8 426.4 447.9	191.2 193.9 191.0 186.7	- - - -		- 0.0 - 0.0 - 0.0	0 4.1 0 6.1	- - - -	113.9 116.8 107.2 110.1	55.5 58.1 54.8 57.8	58.4 58.7 52.3 52.3
May	4 11 18 25	1 730.7 1 700.4 1 752.4 1 777.6	275.4 277.3 279.2 278.9	666.5 641.7 658.2 673.4	472.2 452.6 468.8 470.8	194.3 189.1 189.4 202.6	- - - -		- 0.0 - 0.0 - 0.0	5.9 0 4.8 0 3.6	-	91.7 97.8 123.5 130.9	38.1 43.9 69.2 71.0	53.6 54.0 54.3 60.0
June	1 8 15 22 29	1 799.4 1 783.7 1 794.6 1 793.2 1 823.0	275.9 277.0 277.8 278.7 277.9	703.9 676.9 654.5 642.8 653.5	480.6 468.7 449.0 450.2 439.1	223.3 208.2 205.4 192.6 214.4	- - - - -		- 0.0 - 0.1 - 0.1 - 0.1	5.7 0 3.8 0 3.5	-	107.2 114.9 149.1 158.0 133.6	47.1 54.4 90.2 95.5 71.2	60.1 60.5 58.9 62.5 62.4
July	6	1 744.4	279.4	649.0	440.6	208.4	_		_ 0.0	0 3.9	_	105.7	43.9	61.9

^{*} The consolidated financial statement of the Eurosystem comprises the financial statement of the European Central Bank (ECB) and the financial statements of the national central banks of the euro area member states (NCBs). The balance sheet items for foreign currency, securities, gold and financial instruments are valued at

market rates at the end of the quarter. **1** According to the accounting regime chosen by the Eurosystem on the issue of euro banknotes, a share of 8% of the total value of the euro banknotes in circulation is allocated to the ECB on a monthly basis. The counterpart of this adjustment is disclosed as an "Intra-Eurosystem liability related to

		Liabilities to nor residents denon foreign currency	ninated in								
Liabilities to non-euro area residents denominated in euro	Liabilities to euro area residents in foreign currency	Total	Deposits, balances and other liabilities	Liabilities arising from the credit facility under ERM II	Counterpart of special drawing rights allocated by the IMF	Other liabilities 2	Intra- Eurosystem liability related to euro banknote issue 1	Revaluation accounts	Capital and reserves	On reporting date	
									urosystem ³		
286.1 354.6	6.5 3.8	11.9 11.3	11.9 11.3	_ _	55.6 55.2	233.6 225.5	_	364.9 358.0	102.3 102.3	2017 Dec	22 29
291.1 253.3 252.1 220.8	3.9 5.3 7.0 5.4	11.4 11.2 12.1 11.5	11.4 11.2 12.1 11.5	- - - -	55.2 55.2 55.2 55.2	227.7 230.2 231.6 234.6	- - - -	357.9 357.9 357.9 357.9	102.3 102.1 102.2 102.2	2018 Jan	5 12 19 26
239.1 237.9	8.4 7.5	11.9 12.7	11.9 12.7	- -	55.2 55.2	237.9 230.8	_ _	357.9 357.9	102.7 102.7	Feb	2 9
245.8 251.9	8.6 9.0	12.9 12.4	12.9 12.4	- -	55.2 55.2 55.2	232.7 232.5	_	357.9 357.9 357.9	102.6 102.6		16 23
260.4 258.1	8.5 9.8	12.7 11.6	12.7 11.6	- -	55.2 55.2	234.1 233.6	_	357.9 357.9	102.7 102.7	Mar	2 9
270.4 266.5 339.8	7.7 7.3 5.1	11.4 12.9 12.3	11.4 12.9 12.3	- - -	55.2 55.2 54.9	235.7 236.1 231.3	- - -	357.9 357.9 351.2	102.7 103.5 104.0		16 23 30
258.6 257.3	6.3 6.8	11.7 12.4	11.7 12.4	_ _	54.9 54.9	225.4 228.0	_	351.2 351.2	104.3 104.3	2018 Apr	6 13
257.1 257.1 262.7	7.6 8.6	11.1 10.9	11.1 10.9	- -	54.9 54.9	230.5 227.1	- -	351.2 351.2 351.2	104.4		20 27
273.9 257.1 256.6	7.4 7.1 6.2	11.8 10.5 9.8	11.8 10.5 9.8	- - -	54.9 54.9 54.9	228.8 226.9 226.3	- - -	351.2 351.2 351.2		May	
258.4	7.8	11.6	11.6	=	54.9	228.1	_	351.2	104.4		25
272.3 276.0	8.6 10.7 9.9	10.8 10.1	10.8 10.1	- - -	54.9 54.9 54.9	225.4 225.7	_	351.2 351.2	104.4 104.4	June	8 15
285.0 288.2 348.0	8.1 4.5	10.1 10.5 10.5	10.1 10.5 10.5	- - -	54.9 54.9 56.1	226.8 228.0 233.0	_	351.2 351.2 360.4	104.4 104.4 104.4		22 29
276.5	6.2	10.5	10.5	_	56.1	229.9	_	360.4		July	6
								Deutsche	Bundesbank		
165.4 199.8	0.0	1.0 1.0	1.0 1.0		14.4 14.3	28.1 27.9	355.5 359.3	114.6 113.1	5.6 5.6	2017 Dec	22 29
161.5 152.9	0.0 0.0	1.1 1.3	1.1 1.3	- -	14.3 14.3	28.0 28.0	359.3 359.3	113.1 113.1	5.6 5.6	2018 Jan	5 12
153.0 126.1	0.0	1.6 1.2	1.6 1.2	- -	14.3 14.3	28.4 28.1	359.3 359.7	113.1 113.1	5.6 5.6		19 26
144.5 139.0	0.0 0.0	1.1 1.2	1.1 1.2	_	14.3 14.3	28.3 28.3	359.3 359.3	113.1 113.1	5.6 5.6	Feb	2 9
144.2 149.6	0.0	1.3 1.8	1.3 1.8	- -	14.3 14.3	28.4 28.6	359.3	113.1 113.1	5.6 5.6		16 23
154.3 151.9	0.0 0.0	1.5 0.9	1.5 0.9	_ _	14.3 14.3	26.8 26.8	361.3	113.1 113.1	5.7 5.7	Mar	2 9
155.3 157.1	0.0 0.0 0.0	0.8 1.3	0.8	_ _ _	14.3 14.3	27.0 27.0	361.3	113.1 113.1	5.7 5.7 5.7		16
198.2	0.0	1.8	1.8	-	14.2	27.0	368.2	111.5	5.7	2018 4	23 30
150.0 151.1 149.5 155.2	0.0 0.0 0.0 0.0	1.4 2.2 1.5 1.0	1.4 2.2 1.5 1.0	- - - -	14.2 14.2 14.2 14.2	27.2 27.2 27.3 27.3	368.2 368.2	111.5 111.5 111.5 111.5	5.7 5.7	2018 Apr	6 13 20 27
163.4	0.0	0.9	0.9	_	14.2	27.6	369.5	111.5	5.7	May	4
148.5 157.8 161.0	0.0 0.0 0.0	0.6 0.3 1.1	0.6 0.3 1.1	- - -	14.2 14.2 14.2	27.7 27.8 27.9		111.5 111.5 111.5	5.7 5.7 5.7		11 18 25
173.2	0.0	0.6	0.6	_	14.2	28.1	374.9	111.5	5.7	June	1
174.1 174.0	0.0 0.0	0.6 0.6	0.6 0.6	- -	14.2 14.2	28.2 28.6		111.5 111.5 111.5	5.7 5.7		8 15
174.5 213.3	0.0	0.6 0.3	0.6 0.3	- -	14.2 14.6	28.9 28.3	378.5	111.5 112.9			22 29
165.4	0.0	0.4	0.4	-	14.6	28.9	378.5	112.9	5.7	July	6

euro banknote issue". The remaining 92 % of the value of the euro banknote in circulation is also allocated to the NCBs on a monthly basis, and each NCB shows in its balance sheet the share of the euro banknotes issued which corresponds to its paid-up share in the ECB's capital. The difference between the value of the euro bank-

notes allocated to the NCB according to the aforementioned accounting regime and the value of euro banknotes put into circulation is also disclosed as an "Intra-Eurosystem claim/liability related to banknote issue". **2** For the Deutsche Bundesbank: including DM banknotes still in circulation. **3** Source: ECB.

1 Assets and liabilities of monetary financial institutions (excluding the Bundesbank) in Germany * Assets

€ billion

	€ billion	1	1								1			
			Lending to b	anks (MFIs) in	the euro are	a					Lending to n	on-banks (no	n-MFIs) in the	
				to banks in t	he home cou	ntry	to banks in o	ther mer	mber sta	ates		to non-bank	s in the home	country
													Enterprises a	nd house-
	Balance sheet	Cash				Secur- ities issued				Secur- ities issued			holds	
Period	total 1	in hand	Total	Total	Loans	by banks	Total	Loans		by banks	Total	Total	Total	Loans
												End	of year o	r month
2009	7,436.1	17.2	2,480.5	1,813.2	1,218.4	594.8	667.3		449.5	217.8	3,638.3	3,187.9	2,692.9	2,357.5
2010	8,304.8	16.5	2,361.6	1,787.8	1,276.9	510.9	573.9		372.8	201.0	3,724.5	3,303.0	2,669.2	2,354.7
2011 2012	8,393.3 8,226.6	16.4 19.2	2,394.4 2,309.0	1,844.5 1,813.2	1,362.2 1,363.8	482.2 449.4	550.0 495.9		362.3 322.2	187.7 173.7	3,673.5 3,688.6	3,270.5 3,289.4	2,709.4 2,695.5	2,415.1 2,435.7
2013 2014	7,528.9 7,802.3	18.7 19.2	2,145.0 2,022.8	1,654.8 1,530.5	1,239.1 1,147.2	415.7 383.3	490.2 492.3		324.6 333.9	165.6 158.4	3,594.3 3,654.5	3,202.1 3,239.4	2,616.3 2,661.2	2,354.0 2,384.8
2014	7,665.2	19.5	2,022.8	1,523.8	1,218.0	305.8	489.8		344.9	144.9	3,719.9	3,302.5	2,727.4	2,440.0
2016	7,792.6	26.0	2,101.4	1,670.9	1,384.2	286.7	430.5		295.0	135.5	3,762.9	3,344.5	2,805.6	2,512.0
2017	7,710.8 7,908.5	32.1 19.7	2,216.3	1,821.1	1,556.3	264.8 294.7	395.2 474.4		270.1 336.0	125.2 138.5	3,801.7	3,400.7 3,335.4	2,918.8 2,774.3	2,610.1
2016 Aug Sep	7,908.5	21.0	2,086.1 2,074.5	1,611.7 1,636.4	1,317.0 1,343.9	294.7	474.4		300.7	137.5	3,758.4 3,766.0	3,333.4	2,774.3	2,486.3 2,497.3
Oct	7,868.7	22.8	2,079.5	1,641.2	1,349.4	291.8	438.3		301.6	136.7	3,773.0	3,349.9	2,793.6	2,502.5
Nov Dec	7,911.6 7,792.6	22.9 26.0	2,154.7 2,101.4	1,712.1 1,670.9	1,421.7 1,384.2	290.5 286.7	442.6 430.5		306.3 295.0	136.2 135.5	3,785.7 3,762.9	3,361.6 3,344.5	2,810.0 2,805.6	2,518.4 2,512.0
2017 Jan	7,889.3	24.6	2,210.1	1,777.0	1,490.7	286.3	433.1		299.8	133.3	3,769.9	3,347.6	2,813.5	2,519.3
Feb Mar	7,944.8 7,926.1	23.9 23.6	2,225.4 2,237.5	1,783.3 1,797.8	1,497.9 1,513.2	285.4 284.6	442.1 439.7		307.6 306.9	134.5 132.7	3,774.5 3,776.8	3,347.6 3,351.3	2,819.5 2,828.1	2,525.6 2,533.8
Apr	7,954.6	24.7	2,276.6	1,847.6	1,563.1	284.6	428.9		298.2	130.8	3,780.1	3,357.1	2,836.6	2,541.1
May June	7,947.0 7,849.7	25.6 27.3	2,286.5 2,245.7	1,864.4 1,830.9	1,579.4 1,548.9	285.0 282.1	422.1 414.8		290.1 284.2	132.0 130.6	3,782.1 3,780.7	3,360.7 3,364.7	2,847.3 2,859.4	2,552.6 2,559.7
July	7,818.7	26.6	2,258.5	1,840.3	1,560.2	280.0	418.2		289.0	129.2	3,787.1	3,370.5	2,867.1	2,567.3
Aug	7,807.7	27.5	2,243.1	1,828.2	1,553.7	274.5	415.0		286.9	128.0	3,792.2	3,377.0	2,876.6	2,576.3
Sep Oct	7,811.3 7,825.7	28.4 28.4	2,262.7 2,285.3	1,847.3 1,873.3	1,578.3 1,604.0	269.0 269.2	415.4 412.1		288.4 285.1	127.0 127.0	3,799.4 3,804.7	3,385.3 3,393.5	2,890.2 2,899.1	2,589.5 2,598.2
Nov	7,849.9	28.0	2,312.8	1,901.5	1,633.0	268.5	411.3		285.5	125.8	3,818.1	3,411.2	2,919.0	2,612.6
Dec 2018 Jan	7,710.8	32.1 29.2	2,216.3 2,296.1	1,821.1 1,891.0	1,556.3 1,624.5	264.8 266.5	395.2 405.1		270.1 280.3	125.2 124.9	3,801.7 3,813.9	3,400.7 3,407.5	2,918.8 2,930.5	2,610.1 2,622.5
Feb	7,817.2 7,790.8	29.6	2,298.1	1,892.3	1,627.0	265.2	405.9		280.6	125.2	3,814.1	3,406.5	2,938.1	2,633.4
Mar	7,746.6	35.1	2,254.6	1,852.5	1,585.3	267.1	402.1		274.9	127.2	3,814.9	3,410.8	2,946.8	2,644.4
Apr May	7,781.1 7,882.9	33.8 35.0	2,300.8 2,314.0	1,892.1 1,900.7	1,625.1 1,630.1	267.0 270.6	408.7 413.3		280.6 284.6	128.0 128.6	3,818.5 3,823.8	3,417.4 3,418.9	2,956.1 2,963.0	2,650.7 2,656.7
													Cł	nanges ³
2010	- 136.3		- 111.6	- 15.6	58.5	- 74.1	- 95.9	-	80.9	- 15.1			- 13.7	0.7
2011 2012	54.1 - 129.2	- 0.1 2.9	32.6 - 81.9	58.7 - 28.4	91.7 3.0	- 33.0 - 31.4	- 26.0 - 53.5	_	12.1 39.7	- 13.9 - 13.8	- 51.8 27.5	- 35.3 27.7	38.7 17.0	56.7 28.8
2013	- 703.6	- 0.5	- 257.1	- 249.2	- 216.5	- 32.7	- 7.9		1.6	- 9.5	13.6	16.6	23.6	21.6
2014 2015	206.8	0.4	- 126.2 - 18.2	- 128.6 - 12.1	- 95.3 66.1	- 33.4 - 78.2	2.4		7.2 6.6	- 4.8 - 12.8	55.1 64.8	40.0 64.1	52.3 68.1	36.8 56.6
2016	184.3	6.5	120.3	178.4	195.3	- 16.8	- 58.1	-	49.2	- 8.8	57.5	53.4	88.8	81.0
2017	8.0	6.1	135.9	165.0	182.6 26.9	- 17.6 - 2.0	- 29.1 - 36.3	- _	19.6	- 9.5 - 1.1	51.3	63.5	114.8	101.1
2016 Sep Oct	- 42.7 - 0.5	1.3 1.8	- 11.3 4.8	24.9 5.2	5.6	- 2.0 - 0.4	- 36.3 - 0.3	_	35.2 0.5	- 1.1 - 0.9	8.3 6.5	8.3 7.1	11.7 7.9	11.4 5.2
Nov	25.9	0.1	72.2	69.4	71.4	- 2.0	2.8		3.4	- 0.5	11.6	11.3	15.8	15.2
Dec 2017 Jan	- 121.7 108.8	3.1	- 53.6 110.7	- 41.3 107.1	- 37.8 107.1	- 3.5 0.0	- 12.3 3.5	_	11.7 5.7	- 0.6 - 2.2	- 23.1 9.4	- 17.0	9.3	- 6.1 8.5
Feb	47.4	- 1.4 - 0.7	14.0	5.6	6.8	- 1.2	8.4		7.1	1.2	4.3	4.6 0.3	6.3	6.5
Mar	- 13.0	- 0.3	13.1	14.9	15.5	- 0.6	- 1.8	-	0.0	- 1.8	3.2	4.3	9.0	8.9
Apr May	40.0 8.8	1.1	41.0 12.6	50.7 18.0	50.5 17.1	0.2 0.9	- 9.7 - 5.4	- -	7.8 6.8	- 1.9 1.4	4.7 4.0	6.8 4.6	9.4 9.0	8.2 9.9
June	- 85.4	1.7	- 38.0	- 31.5	- 29.2	- 2.3	- 6.5	-	5.2	- 1.4	0.5	5.3	13.2	8.0
July Aug	- 14.3 - 4.7	- 0.7 0.9	14.5 - 14.3	10.5 - 11.6	12.2 - 6.3	- 1.7 - 5.3	4.0 - 2.8	_	5.2 1.6	- 1.2 - 1.2	8.6 5.6	7.1 6.8	8.9 9.9	8.6 9.3
Sep	4.8	0.9		21.5	26.0	- 4.5	0.3		1.2	- 0.9	6.9	7.1	12.0	13.5
Oct Nov	8.6 33.4	0.1 - 0.4	21.9 28.9	25.5 28.8	25.4 29.4	0.1 - 0.6	- 3.7 0.0	-	3.7 1.2	0.1 - 1.1	4.6 14.8	8.0 18.7	8.6 19.0	8.6 13.5
Dec	- 126.4	4.1	- 90.1	- 74.7	- 72.0	- 2.7	- 15.4	-	15.0	- 0.4	- 15.2	- 10.0	0.1	- 2.4
2018 Jan Feb	124.2 6.3	- 2.9 0.3	82.2 0.5	70.9 0.6	68.7 2.0	2.2 - 1.4	11.3 - 0.1		11.5 0.4	- 0.2 0.3	14.7 0.2	8.2 - 0.7	12.4 7.7	13.0 10.7
Mar	- 37.4	5.5		- 39.5	- 41.4	1.4	- 3.4	- -	5.3	2.0		5.6	10.1	12.3
Apr	28.9	- 1.3			39.9	- 0.2	5.9		5.1	0.9	4.0	7.1	9.8	6.3 15.3
May	102.3	1.3	14.2	9.6	6.0	3.6	4.6		4.0	0.6	14.6	10.5	16.3	15.3

^{*} This table serves to supplement the "Overall monetary survey" in section II. Unlike the other tables in section IV, this table includes — in addition to the figures reported

euro area										Claims on non-euro-are	ea		
	General			to non-bank	s in other mei Enterprises a		General			residents		1	
	government		Т	-	households	<u> </u>	government	I	1				
Secur- ities	Total	Loans	Secur- ities 2	Total	Total	of which Loans	Total	Loans	Secur- ities	Total	of which Loans	Other assets 1	Period
End of y	ear or mo	nth											
335.4	1	1	1		l .	1	128.2	l	104.7	1,062.6	1	237.5	2009
314.5 294.3 259.8 262.3 276.4	561.1 594.0 585.8	418.4 359.8 350.3 339.2 327.9	201.2 2 243.7 2 246.6	403.1 399.2 392.3	289.2 276.9 275.1 267.6 270.0	164.2 161.2 158.1 144.6 142.7	132.4 126.2 124.1 124.6 145.0	24.8 32.6 30.4 27.8 31.9	107.6 93.6 93.7 96.9 113.2	1,021.0 995.1 970.3 921.2 1,050.1	792.7 770.9 745.0 690.5 805.0	1,181.1 1,313.8 1,239.4 849.7 1,055.8	2010 2011 2012 2013 2014
287.4 293.6 308.7	575.1 5 538.9	324.5 312.2 284.3	250.6 2 226.7	417.5 418.4	276.0 281.7 271.8	146.4 159.5 158.3	141.5 136.7 129.1	29.4 28.5 29.8	112.1 108.2 99.3	1,006.5 1,058.2 991.9	746.3 802.3 745.3	905.6 844.1 668.9	2015 2016 2017
288.0 288.3		324.9 323.0			283.3 282.2	159.7 157.8	139.8 140.7	29.1 29.8	110.7 110.9	1,042.6 1,030.5	786.2 774.4	1,001.7 971.9	2016 Aug Sep
291.0 291.6 293.6	5 551.6	326.3 321.9 312.2	229.7	424.1	284.6 285.9 281.7	162.1 161.9 159.5	138.5 138.3 136.7	29.5 29.2 28.5	108.9 109.1 108.2	1,077.9 1,065.1 1,058.2	823.1 811.1 802.3	915.5 883.2 844.1	Oct Nov Dec
294.2 294.0 294.3	528.0	312.2 311.6 307.7	216.5	427.0	284.6 289.4 290.8	163.1 165.6 167.2	137.7 137.6 134.7	28.6 28.6 29.0	109.2 109.0 105.7	1,080.8 1,095.4 1,097.1	826.0 843.6 847.5	803.9 825.5 791.1	2017 Jan Feb Mai
295.5 294.6 299.7	5 513.4	307.9 298.9 296.4	214.6	421.4	287.1 288.5 283.4	167.8 166.8 162.6	135.8 132.9 132.6	29.9 28.9 29.9	105.9 103.9 102.6	1,080.7 1,056.3 1,064.9	832.2 808.0 817.0	792.5 796.5 731.1	Apr May June
299.8 300.4 300.7	500.4	298.3 293.4 289.0	207.0	415.2	285.0 283.8 283.0	164.1 165.2 167.9	131.7 131.4 131.1	29.9 30.0 29.8	101.8 101.4 101.3	1,028.5 1,011.0 1,021.2	780.9 765.3 776.3	717.9 733.9 699.6	July Aug Sep
301.0 306.4 308.7	492.2	289.2 287.3 284.3	205.0	406.8	281.6 276.8 271.8	167.7 164.2 158.3	129.6 130.0 129.1	30.4 29.8 29.8	99.2 100.2 99.3	1,014.2 1,005.3 991.9	768.9 759.4 745.3	693.0 685.6 668.9	Oct Nov Dec
308.0 304.7 302.4	7 468.4	282.8 277.4 275.5	191.0	407.6	278.6 280.5 278.3	163.9 165.9 164.9	127.8 127.1 125.9	29.7 29.6 29.8	98.0 97.5 96.1	1,009.1 1,026.5 1,016.8	758.2 775.9 763.8	668.9 622.5 625.3	2018 Jan Feb Mai
305.4 306.4					275.1 280.2	165.1 167.4	126.0 124.8	29.9 29.8	96.2 95.0	1,009.2 1,052.9		618.9 657.1	Apr Ma <u>y</u>
Changes	5 ³												
- 14.3 - 18.0 - 11.8 2.0 15.5	74.0 3 10.7 0 – 7.0	- 59.1 - 10.5 - 10.5	- 14.9 5 21.2 9 3.9	- 16.6 - 0.2 - 3.0	- 36.4 - 13.8 - 0.7 - 3.4 0.4	- 5.5 - 1.5 - 9.3	6.8 - 2.7 0.5 0.5 14.6	3.1 8.0 - 2.2 - 2.6 0.9	3.7 - 10.7 2.7 3.1 13.8	- 74.1 - 39.5 - 15.5 - 38.8 83.6	- 34.9 - 17.7 - 47.2	- 46.3 112.9 - 62.2 - 420.8 194.0	2010 2011 2012 2013 2014
11.5 7.8 13.7	35.4		l – 23.3	4.0	4.4 8.2 – 3.4	1.8 14.6 4.0	- 3.7 - 4.2 - 8.7	- 1.0 - 0.9 0.1	- 2.8 - 3.3 - 8.9	- 88.3 51.4 - 12.3	- 101.0 55.0 - 6.7	- 150.1 - 51.4 - 173.1	2015 2016 2017
0.3	1	1	1		- 0.8	1	0.8	0.6	0.1	- 10.8		- 30.3	2016 Sep
2.8 0.6 1.7	5 – 4.5 7 – 12.6	- 4.3 - 9.7	3 - 0.2 7 - 2.9	0.4	1.9 0.6 – 4.4	- 1.2 - 2.3	- 2.5 - 0.2 - 1.6	- 0.3 - 0.4 - 0.7	- 2.2 0.1 - 0.9	42.7 - 25.7 - 9.4	44.1 - 24.1 - 11.4	- 56.4 - 32.3 - 38.8	Oct Nov Dec
- 0.2 - 0.2 0.2	2 – 6.1		5 – 5.4	4.0	3.7 4.2 1.7		1.2 - 0.2 - 2.9	0.1 0.0 0.4	- 0.2 - 3.3	30.4 8.2 5.5		- 40.2 21.6 - 34.5	2017 Jan Feb Mai
1.2 - 0.8 5.2	3 – 4.4	- 6.4	1 2.0	0.6	- 3.3 2.3 - 3.5	- 0.1	1.2 - 3.0 - 1.3	0.9 - 1.0 0.1	0.3 - 2.0 - 1.3	- 8.2 - 12.7 15.6	- 7.4 - 13.1 15.3	1.4 4.0 – 65.2	Apr Ma <u>r</u> Jun
0.3 0.6 – 1.5	5 – 3.0		1.9	- 1.2	2.4 - 0.8 0.2	1.5	- 1.0 - 0.4 - 0.4	- 0.2 0.0 - 0.2	- 0.8 - 0.4 - 0.2	- 24.4 - 12.9 8.3	- 24.9 - 11.3 9.0	- 12.3 16.0 - 33.1	July Aug Sep
0.1 5.6 2.5	5 – 0.4 5 – 10.1	- 0.1	- 0.3 - 7.2	3.9 - 5.2	- 1.8 - 4.3 - 4.3	- 3.1	- 1.6 0.4 - 0.8	0.6 - 0.6 0.0	- 2.2 1.0 - 0.9	- 11.3 - 2.5 - 8.3		- 16.9	Oct Nov Dec
- 0.6 - 3.0 - 2.2	0 – 8.4 2 – 4.5	- 1.9	2 - 3.3	1.0	7.7 1.7 – 1.6	1	- 1.2 - 0.7 - 1.3	- 0.1 - 0.2 0.1	- 1.2 - 0.5 - 1.4	29.4 10.6 – 5.5	11.1	- 5.4 2.8	2018 Jan Feb Mai
3.5 0.9					- 3.3 5.2		0.1 - 1.1	0.1 - 0.1	0.0	- 13.2 43.9			Apr May

exchange of equalisation claims. **3** Statistical breaks have been eliminated from the flow figures (see also footnote * in Table II.1).

1 Assets and liabilities of monetary financial institutions (excluding the Bundesbank) in Germany * Liabilities

€ billion

	Camon	Deposits of b			Deposits of r	on-banks (no	n-MFIs) in the	euro area					
		in the euro a	rea			Deposits of n	on-banks in t	he home cour	ntry			Deposits of n	on-banks
			, ,					With agreed		At agreed			
			of banks	ı				maturities		notice			
	Balance sheet		in the home	in other member			Over-		of which up to		of which up to		Over-
Period	total 1	Total	country	states	Total	Total	night	Total	2 years	Total	3 months	Total	night
											End	of year o	r month
2009	7,436.1	1,589.7	1,355.6	234.0	2,818.0	2,731.3	1		356.4		1	1	17.7
2010	8,304.8	1,495.8	1,240.1	255.7	2,925.8	2,817.6	1,089.1	1,110.3	304.6	618.2	512.5	68.4	19.3
2011	8,393.3	1,444.8	1,210.3	234.5	3,033.4	2,915.1	1,143.3	1,155.8	362.6	616.1	515.3	78.8	25.9
2012	8,226.6	1,371.0	1,135.9	235.1	3,091.4	2,985.2	1,294.9	1,072.8	320.0	617.6	528.4	77.3	31.2
2013	7,528.9	1,345.4	1,140.3	205.1	3,130.5	3,031.5	1,405.3	1,016.2	293.7	610.1	532.4	81.3	33.8
2014	7,802.3	1,324.0	1,112.3	211.7	3,197.7	3,107.4	1,514.3	985.4	298.1	607.7	531.3	79.7	34.4
2015	7,665.2	1,267.8	1,065.9	201.9	3,307.1	3,215.1	1,670.2	948.4	291.5	596.4	534.5	80.8	35.3
2016	7,792.6	1,205.2	1,033.2	172.0	3,411.3	3,318.5	1,794.8	935.3	291.2	588.5	537.0	84.2	37.2
2017	7,710.8	1,233.6	1,048.6	184.9	3,529.1	3,411.1	1,936.6	891.7	274.2	582.8	541.0	108.6	42.5
2016 Aug	7,908.5	1,211.5	1,016.5	195.0	3,369.5	3,274.0	1,744.5	941.2	292.8	588.4	534.6	85.5	40.4
Sep	7,863.9	1,194.8	1,029.1	165.7	3,372.1	3,274.9	1,743.8	944.0	297.4	587.1	534.0	88.0	41.4
Oct	7,868.7	1,186.8	1,025.4	161.3	3,378.8	3,286.5	1,763.9	936.0	288.5	586.6	534.3	83.7	37.1
Nov	7,911.6	1,205.6	1,042.2	163.4	3,420.0	3,320.5	1,795.0	939.3	292.8	586.1	534.4	89.8	43.4
Dec	7,792.6	1,205.2	1,033.2	172.0	3,411.3	3,318.5	1,794.8	935.3	291.2	588.5	537.0	84.2	37.2
2017 Jan	7,889.3	1,237.0	1,053.4	183.6	3,433.4	3,337.5	1,807.5	941.6	300.1	588.4	537.7	88.4	42.2
Feb	7,944.8	1,245.6	1,055.3	190.3	3,435.3	3,336.9	1,812.7	935.8	295.0	588.5	538.3	89.6	41.7
Mar	7,926.1	1,259.8	1,077.3	182.5	3,433.9	3,334.5	1,813.5	934.4	296.4	586.6	537.0	91.2	39.6
Apr	7,954.6	1,254.1	1,075.4	178.8	3,452.0	3,352.3	1,840.8	925.4	290.7	586.2	536.9	91.2	41.7
May	7,947.0	1,259.3	1,079.9	179.4	3,463.2	3,360.6	1,848.6	926.4	292.7	585.7	536.8	93.5	44.2
June	7,849.7	1,235.2	1,054.2	181.0	3,477.7	3,362.0	1,865.6	911.8	290.3	584.6	536.2	107.1	44.8
July	7.818.7	1,239.8	1,062.3	177.5	3,470.9	3,353.4	1,862.3	907.6	287.9	583.4	538.2	107.5	45.8
Aug	7,807.7	1,243.3	1,065.8	177.4	3,486.1	3,368.4	1,880.5	905.5	285.7	582.4	537.9	108.3	47.5
Sep	7,811.3	1,256.2	1,071.9	184.3	3,494.8	3,371.4	1,886.8	902.8	284.3	581.8	537.9	114.7	50.7
Oct	7,825.7	1,272.0	1,081.9	190.1	3,505.8	3,388.0	1,912.7	893.9	277.3	581.5	538.4	109.2	46.3
Nov	7,849.9	1,275.5	1,081.0	194.5	3,542.9	3,417.4	1,939.9	896.5	276.9	581.0	538.6	113.6	52.1
Dec	7,710.8	1,233.6	1,048.6	184.9	3,529.1	3,411.1	1,936.6	891.7	274.2	582.8	541.0	108.6	42.5
2018 Jan	7,817.2	1,249.4	1,060.8	188.6	3,539.8	3,419.1	1,944.5	892.2	276.8	582.4	539.7	110.6	46.4
Feb	7,790.8	1,246.9	1,058.2	188.8	3,536.8	3,416.5	1,945.4	888.9	273.3	582.1	540.4	109.7	47.1
Mar	7,746.6	1,238.1	1,057.5	180.6	3,537.7	3,413.3	1,944.1	888.1	274.7	581.2	539.9	109.3	48.7
Apr	7,781.1	1,233.9	1,053.5	180.4	3,551.3	3,430.7	1,967.4	882.9	270.2	580.4	539.6	108.8	46.7
May	7,882.9		1,037.1	195.3	3,582.2	3,462.4	1,998.3	884.0	271.4	580.1	539.5	109.4	47.7
												Cł	nanges ⁴
2010	- 136.3	- 75.2	- 99.4	24.2	72.3	59.7	88.7	- 53.0	- 52.2	24.0	38.3	- 4.4	2.2
2011	54.1	- 48.4	- 28.8	- 19.6	102.1	97.4	52.4	47.6	58.8	- 2.6	1.3	4.8	6.5
2012	- 129.2	- 68.7	- 70.0	1.3	57.8	67.1	156.1	- 90.4	- 50.2	1.5	14.1	- 1.4	5.4
2013	- 703.6	- 106.2	- 73.9	- 32.3	39.1	47.8	111.5	- 56.3	- 26.6	- 7.3	4.0	2.6	3.3
2014	206.8	- 28.4	- 32.2	3.9	62.7	71.6	106.0	- 32.1	3.1	- 2.4	– 2.4	- 2.5	– 0.0
2015	- 191.4	- 62.1	- 50.3	- 11.9	104.1	104.8	153.2	- 37.0	- 10.1	- 11.3	4.2	- 0.4	- 0.3
2016	184.3	- 31.6	- 2.2	- 29.4	105.7	105.2	124.3	- 11.1	1.4	- 8.0	2.4	2.7	1.9
2017 2016 Sep	8.0	30.6 – 16.5	14.8 12.7	15.8 - 29.2	124.2	107.7 1.0	145.8 - 0.6	- 32.5 2.9	- 15.3 4.6	- 5.6 - 1.2	1.5 - 0.5	16.4 2.5	5.8 1.1
Oct	- 0.5	- 8.4	- 3.7	- 4.7	6.2	11.2	19.8	- 8.1	- 8.9	- 0.6	0.2	- 4.3	- 4.4
Nov	25.9	17.3	15.9	1.4	39.7	32.7	30.1	- 3.0	- 1.3	- 0.4	0.1	5.8	6.1
Dec	- 121.7	- 0.9	- 9.3	8.4	- 9.0	- 2.2	- 0.4	- 4.1		2.3	2.7	- 5.7	- 6.2
2017 Jan	108.8	32.8	20.7	12.1	23.0	19.7	13.3	6.4	9.1	- 0.0	0.7	4.4	5.1
Feb	47.4	7.6	1.6	6.1	1.2	- 0.7	4.7	- 5.5	- 4.8	0.1	0.7	1.1	- 0.5
Mar	– 13.0	14.8	22.2	– 7.4	– 1.0	- 2.1	1.1	- 1.3	1.5	- 1.9	– 1.4	1.6	- 2.1
Apr	40.0	- 4.4	- 1.3	- 3.1	19.1	18.7	27.8	- 8.7	- 5.5	- 0.5	- 0.0	0.2	2.2
May	8.8	6.7	5.3	1.5	12.7	9.5	8.7	1.3	2.2	- 0.5	- 0.1	2.5	2.6
June	- 85.4	- 22.2	- 24.3	2.1	15.3	11.1	17.5	- 5.4	- 2.3	- 1.0	- 0.7	4.7	0.7
July	- 14.3	5.3	8.9	- 3.5	- 5.3	- 7.4	- 2.4	- 3.9	- 2.1	- 1.2	- 0.4	0.7	1.1
Aug	- 4.7	4.1	3.8	0.3	15.8	15.5	18.5	- 1.9	- 2.1	- 1.1	- 0.3	0.9	1.7
Sep	4.8	3.0	– 3.8	6.7	8.4	2.9	6.1	- 2.6	- 1.5	- 0.6	0.0	6.4	3.2
Oct	8.6	15.2	9.8	5.5	10.3	16.0	25.5	- 9.1	- 7.1	- 0.3	0.5	- 5.6	- 4.4
Nov	33.4	4.6	- 0.3	4.9	37.9	30.2	27.9	2.8	- 0.2	- 0.5	0.2	4.6	5.9
Dec	- 126.4	- 36.9	- 27.7	- 9.2	- 13.1	- 5.7	- 3.0	- 4.6	- 2.6	1.9	0.2	- 4.9	- 9.6
2018 Jan	124.2	17.6	13.1	4.5	12.2	9.1	8.7	0.9	3.2	- 0.5		2.4	4.0
Feb	6.3	- 3.6	- 3.2	- 0.4	- 4.0	- 3.5	- 0.2	- 3.5	- 3.7	- 0.2	- 0.4	- 1.1	0.7
Mar	- 37.4	- 8.3	- 0.5	- 7.9	1.3	- 2.8	- 1.1	- 0.8	1.5	- 0.9	- 0.5	5.7	1.6
Apr	28.9	- 4.5	- 3.8	- 0.6	13.5	17.5	22.8	- 4.6	- 4.0	- 0.8	- 0.3	- 6.6	- 2.0
May	102.3	- 1.5	- 16.4	14.9	30.9	31.7	30.9	1.1	1.2	- 0.3	- 0.1	0.6	1.0

^{*} This table serves to supplement the "Overall monetary survey" in section II. Unlike the other tables in section IV, this table includes – in addition to the figures reported

								Debt securiti	es]
in other m	ember states 2			Deposits of				issued 3	Ι				
With agre	ed	At agreed		central gove	rnments	Liabilities							
maturities		notice	1		of which	arising from	Money		of which	Liabilities			
	of which		of which		domestic central	repos with non-banks	market fund		with maturities	to non- euro-	Capital		
Total	up to 2 years	Total	up to 3 months	Total	govern- ments	in the euro area	shares issued 3	Total	of up to 2 years 3	area residents	and reserves	Other Liabilities 1	Period
	year or mo					100000	1				1		
43			2.0	22.8	22.2	80.5	11.4	1,500.5	146.3	565.6	454.8	415.6	2009
46	.4 16.1	2.8	2.2	39.8	38.7	86.7	9.8	1,407.8	82.3	636.0	452.6	1,290.2	2010
49 42	.3 14.7	3.3 3.8	2.5 2.8	39.5 28.9	37.9 25.9	97.1 80.4	6.2 7.3	1,345.7 1,233.1	75.7 56.9	561.5 611.4	468.1 487.3	1,436.6 1,344.7	2011 2012
44 42		3.5 3.3	2.7 2.7	17.6 10.6	16.0 10.5	6.7 3.4	4.1 3.5	1,115.2 1,077.6	39.0 39.6	479.5 535.3	503.0 535.4	944.5 1,125.6	2013 2014
42 43			2.8 2.6	11.3 8.6	9.6 7.9	2.5 2.2	3.5 2.4	1,017.7 1,030.3	48.3 47.2	526.2 643.4	569.3 591.5	971.1 906.3	2015 2016
63		2.9	2.6	9.4	8.7	3.3	2.1	994.5	37.8	603.4		658.8	2017
42		3.2 3.1	2.7 2.7	10.0 9.2	7.9 8.1	3.2 2.9	2.4 2.5	1,020.1 1,011.1	52.7 51.9	663.4 655.7	581.9 596.9	1,056.4 1,028.0	2016 Aug Sep
43	.6 16.6		2.6	8.5	7.6	3.2	2.4	1,019.6	50.7	710.2		972.9	Oct
43	.4 16.0 .9 15.8	3.1 3.1	2.6 2.6	9.7 8.6	8.2 7.9	3.0 2.2	2.4 2.4	1,035.2 1,030.3	48.4 47.2	711.7 643.4	591.2 591.5	942.6 906.3	Nov Dec
43		3.0 3.0	2.6 2.6	7.5 8.8	6.9 7.7	4.8 4.5	2.3 2.3	1,043.2 1,050.8	47.5 48.0	716.8 734.1	585.0 588.5	866.9 883.7	2017 Jan Feb
48	.6 19.9	3.0	2.6	8.3	7.9	2.6	2.2	1,045.7	45.9	730.2	594.1	857.6	Mar
46 46	.4 17.2	3.0 3.0	2.6 2.6	8.5 9.1	7.6 7.8	3.5 2.4	2.2	1,042.1 1,042.5	43.9 44.6	749.0 724.9	603.2	853.4 849.4	Apr May
59 58		3.0	2.6 2.6	8.6 10.0	7.9 7.9	1.8 3.3	2.2	1,039.2 1,029.2	44.8 43.9	689.8 684.2	610.2 606.2	793.5 782.9	June July
57	.8 18.3	3.0	2.6 2.6	9.4 8.7	7.9 8.0	3.4 2.6	2.4	1,024.7 1,015.2	42.6 42.2	643.1 669.5	608.1 612.4	796.7 758.2	Aug Sep
59	.9 18.3	2.9	2.6	8.6	7.9	2.3	2.2	1,008.9	40.7	667.9	612.7	753.9	Oct
58 63		2.9 2.9	2.6 2.6	11.8 9.4	8.3 8.7	2.6 3.3	2.2 2.1	1,004.7 994.5	40.1 37.8	664.4 603.4	609.8 686.0	747.9 658.8	Nov Dec
61 59	.3 18.9 .7 18.2	2.9 2.9	2.6 2.6	10.0 10.7	8.9	4.3 3.8	2.1	1,002.6 1,006.3	35.4 36.0	682.4 690.3	666.5 678.6	670.0 625.9	2018 Jan Feb
63		2.9	2.6	9.1	8.8 8.3	2.9	2.1 2.3	1,014.0	35.2	641.0		635.6	Mar
59 58	.2 18.0 .8 16.8		2.5 2.5	11.7 10.4	8.4 8.8	2.4 1.6	2.2 2.0	1,016.6 1,030.7	34.7 36.0	672.9 707.2		624.6 646.6	Apr May
Change								,,,,,					,
- 6	.8 – 5.8 .2 1.7	0.3	0.3	17.0 - 0.1	16.5 – 0.7	6.2 10.0	- 1.6 - 3.7	- 106.7 - 76.9	- 63.2 - 6.6	54.4 - 80.5		- 78.6 137.8	2010 2011
- 7	.2 - 3.6	0.5	0.3	- 7.9	- 9.2	- 19.6	1.2	- 107.0	- 18.6	54.2	21.0	- 68.5	2012
	.5 2.2 .3 – 1.2		- 0.1 - 0.1	- 11.3 - 6.4	- 10.0 - 4.8	4.1 – 3.4	- 3.2 - 0.6	- 104.9 - 63.7	- 17.6 - 0.2	- 134.1 35.9	18.9 26.1	- 417.1 178.3	2013 2014
	.1 0.0		0.1	- 0.4 - 2.2	- 1.9 - 1.2	- 1.0 - 0.3	- 0.0 - 1.1	- 86.8 8.6	7.7 – 1.3	- 30.3 116.1	28.0 26.4	- 143.2 - 39.5	2015 2016
10	1	1	- 0.0	- 0.0	- 0.0	1.1	- 0.3	- 3.3	- 8.5	- 16.1	34.1	- 162.3	2017
1	.5 0.8 .1 – 1.3	1	- 0.0 - 0.0	- 0.8 - 0.7	0.1	- 0.3 0.3	0.0	- 8.1 5.3	- 0.8 - 1.3	- 7.0 52.6	12.0	- 25.5 - 53.5	2016 Sep Oct
- 0	.3 - 0.7	- 0.0	- 0.0 0.0	1.2	0.6	- 0.2 - 0.8	0.1	7.3	- 2.6 - 1.3		- 6.2 - 0.2	- 27.0 - 34.3	Nov Dec
- 0	.6 - 0.1	- 0.0	- 0.0	- 1.1	- 1.0	2.6	- 0.1	17.9	0.5	76.7	- 5.1	- 38.9	2017 Jan
	.6 2.3 .7 2.0		- 0.0 - 0.0	0.8 - 0.6	0.3 0.3	- 0.3 - 1.9	- 0.1 - 0.1	3.4 - 2.8	- 0.3 - 2.0	14.4 - 2.2	2.4 6.2	18.7 – 26.1	Feb Mar
	.9 – 1.6 .1 – 1.0		0.0 0.0	0.2 0.6	- 0.3 0.2	0.9 – 1.1	- 0.0 - 0.0	1.4 7.8	- 1.8 0.9	22.7 – 18.5	5.6 7.0	- 5.3 - 5.7	Apr May
4	.0 2.9	- 0.0	- 0.0	- 0.5	0.1	- 0.6		1.0	0.3	- 31.9	8.9	- 56.0	June
	.5 - 0.9 .9 - 0.8		- 0.0 - 0.0	1.4 - 0.6	- 0.0 - 0.1	1.4 0.1	- 0.0 0.2	- 3.1 - 1.7	- 0.7 - 1.2	- 0.1 - 39.0	- 1.9 2.7	- 10.6 13.0	July Aug
3	.2 2.2	- 0.0	- 0.0	- 0.8	0.0	- 0.7	0.0	- 10.2	- 0.5	25.3	4.7	- 25.6	Sep
- 1	.2 - 2.2	- 0.0	- 0.0	- 0.1 3.0	- 0.2 0.3	- 0.3 0.3	- 0.3 0.0	- 9.6 - 0.2	- 1.6 - 0.5	- 0.6	- 1.5	- 2.6 - 7.1	Oct Nov
1	.7 3.0 .5 – 0.8	1	0.0	- 2.4 0.6	0.3	0.7 1.0	- 0.0 - 0.0	- 7.3 15.8	- 2.3 - 2.2	1	1	- 16.1 11.0	Dec 2018 Jan
- 1	.7 – 0.8 .1 4.4	- 0.0	- 0.0 - 0.0	0.6 - 1.6	- 0.1	- 0.5 - 0.9	- 0.0 0.2	- 0.5 9.4	0.6	5.0	10.8	- 1.0	Feb Mar
- 4	.6 - 4.6	- 0.0	- 0.0	2.7	0.1	- 0.5	- 0.1	- 0.9	- 0.3	28.0	1.7	- 8.4	Apr
I – 0	.4 – 1.3	- 0.0	- 0.0	– 1.4	0.3	– 0.8	- 0.2	16.4	3.5	34.3	0.6	22.6	l May

governments. **3** In Germany, debt securities with maturities of up to one year are classed as money market paper; up to the January 2002 Monthly Report they were

published together with money market fund shares. 4 Statistical breaks have been eliminated from the flow figures (see also footnote * in Table II.1).

2 Principal assets and liabilities of banks (MFIs) in Germany, by category of banks*

€	hi	lli.	or

	C DIMION												
				Lending to b	anks (MFIs)		Lending to r	on-banks (no	n-MFIs)				
					of which			of which					
								Loans					
			Cash in hand and										
End of month	Number of reporting institu- tions	Balance sheet total 1	credit balances with central banks	Total	Balances and loans	Securities issued by banks	Total	for up to and including 1 year	for more than 1 year	Bills	Securities issued by non-banks	Partici- pating interests	Other assets 1
	All categ	ories of b	anks										
2017 Dec	1,631	7,755.3	447.7	2,371.3	1,901.6	468.4	4,056.5	333.6	3,002.4	0.6	715.0	112.6	767.1
2018 Jan Feb Mar	1,627 1,627 1,627	7,836.4	500.8 513.0 494.0	2,407.1 2,408.7 2,382.8	1,934.0 1,936.1 1,903.2	470.6 469.6 476.5	4,074.4 4,080.8 4,078.8	353.7 357.4 360.8	3,001.5 3,012.0 3,014.7	0.6 0.5 0.5	712.2 703.6 695.2	112.5 112.5 112.7	766.8 721.5 723.6
Apr May	1,625 1,623		508.0 525.6	2,409.6 2,429.1	1,929.4 1,950.0	476.9 475.8	4,078.6 4,099.8	357.1 364.6	3,023.3 3,033.9	0.5 0.5	689.4 693.2	112.9 117.7	717.6 756.8
	Commer	cial banks	6										
2018 Apr May	264 263	3,184.9											
	Big bai												
2018 Apr May	4 4		147.4	571.9	541.3		495.2 602.1						
	1		and other										
2018 Apr May	151 150	883.0	85.7	193.5	203.4 149.5			61.3 60.0					
			ign banks										
2018 Apr May	109 109	443.1					95.6 97.2	29.0 30.7				0.7	8.3 8.3
2040.4	Landesb				200 6		4504						00.01
2018 Apr May	8 8	897.3						53.7 54.0					
2040.4	Savings I			. 477.0		. 4425	0507	40.0			1504		47.21
2018 Apr May	386 385			177.2 176.3				49.0 48.4	753.3 756.0				
	Credit co	operative	S										
2018 Apr May	915 915												
	Mortgag	e banks											
2018 Apr May	13 13	224.8	3.9	29.7				2.8 2.9		_	22.9 22.5		6.0 6.8
			associatio										
2018 Apr May	20 20	232.6	1.5	57.0	40.8	16.2	169.3		142.3 142.7		25.5 25.5	0.3	4.4 4.5
	1	-	, develop										
2018 Apr May	19 19	1,270.0	84.8	701.7					265.7 267.1		95.3 95.0		
			eign banks										
2018 Apr May	143 142	1,155.3		431.2	393.2	37.4					96.2 98.2	4.0 4.0	
2010.4	1 -		majority-						1 255.0				70.2
2018 Apr May	34 33	698.8 712.2	56.8 53.3	168.5 173.1	132.4 138.4	35.9 34.7		48.1 47.7	255.0 261.0		87.0 89.5	3.3 3.3	78.2 82.6

^{*} Assets and liabilities of monetary financial institutions (MFIs) in Germany. The assets and liabilities of foreign branches, of money market funds (which are also classified as MFIs) and of the Bundesbank are not included. For the definitions of the respective items, see the footnotes to Table IV.3. 1 Owing to the Act Modernising Accounting Law (Gesetz zur Modernisierung des Bilanzrechts) of 25 May 2009, derivative financial instruments in the trading portfolio (trading portfolio derivatives) within the meaning of section 340e (3) sentence 1 of the German Commercial Code (Handels-

gesetzbuch) read in conjunction with section 35 (1) No 1a of the Credit Institution Accounting Regulation (Verordnung über die Rechnungslegung der Kreditinstitute) are classified under "Other assets and liabilities" as of the December 2010 reporting date. Trading portfolio derivatives are listed separately in the Statistical Supplement to the Monthly Report 1, Banking statistics, in Tables 1.1 to 1.3. 2 For building and loan associations: Including deposits under savings and loan contracts (see Table IV.12). 3 Included in time deposits. 4 Excluding deposits under savings and loan

	Deposits of	banks (MFIs)		Deposits of	non-banks (r	non-MFIs)							Capital		
		of which			of which]	including published		
						Time deposi	its 2		Savings dep	osits 4			reserves, partici-		
	Total	Sight deposits	Time deposits	Total	Sight deposits	for up to and including 1 year	for more than 1 year 2	Memo item Liabilities arising from repos 3	Total	of which At three months' notice	Bank savings bonds	Bearer debt securities out- standing 5	pation rights capital, funds for general banking risks	Other liabi- lities 1	End of month
												All ca	tegories	of banks	
١	1,707.1	500.3	1,206.8	3,662.1	2,050.4	269.1	700.3	46.0	590.3	547.6	52.0	1,097.0	511.1	777.9	2017 Dec
	1,772.0 1,772.3 1,724.9	566.8 551.4 504.2	1,205.1 1,220.9 1,220.7	3,703.9 3,705.4 3,694.7	2,079.8 2,084.4 2,074.3	287.2 288.9 294.2	697.6 695.3 691.0	75.0 84.4 71.1	589.9 589.6 588.6	546.3 546.9 546.4	49.4 47.2 46.7	1,090.7 1,107.4 1,112.0	510.5 511.5 512.7	784.6 739.9 747.6	2018 Jan Feb Mar
	1,738.2 1,766.0	528.9 559.7	1,209.3 1,206.3	3,722.1 3,757.2	2,109.8 2,143.1	289.5 291.3	688.9 690.6	81.3 82.4	587.7 587.4	546.1 546.0	46.2 44.8	1,115.8 1,133.6	513.6 515.7	737.0 756.4	Apr May
												Co	mmercia	l banks ⁶	,
	841.9 863.8			1,490.7 1,509.4	931.3 950.6		271.2 272.5	66.7 67.7	100.4 100.3					451.2 473.1	2018 Apr May
				, , , , , ,										oanks ⁷	,
	382.7 429.2	132.5 147.8	250.2 281.3		387.3 463.9			64.3 65.3					104.3	407.1	2018 Apr May
									Regi	onal ban	ks and o	ther com	mercial b	anks	
	205.6 169.7	69.7 70.1	135.9 99.7	690.4 580.1	434.5 374.9	44.3 42.7		2.4 2.4		32.9 15.8	14.9 14.7	36.6 35.4		33.8 33.5	2018 Apr May
											Brai	nches of	foreign b	anks	
	253.6 264.9	174.9 187.2			109.4 111.8			- -	0.2 0.2	0.2 0.2	0.0	0.3 0.3	8.5 8.4	10.2 10.9	2018 Apr May
													Lande	sbanken	
	259.0 260.5		195.6 196.5	296.6 296.3	135.7 134.6	58.3 58.8	89.4 89.7	11.0 11.0	12.4 12.5						2018 Apr May
													Saving	gs banks	
	130.8 129.8		126.4 126.2		571.5 577.5			- -	289.3 289.0						2018 Apr May
												Cr	edit coop	peratives	
	115.5 115.9	1.2	114.3 114.9	667.6 673.1	428.8 434.5			_ _	185.1 185.1					32.3 31.2	2018 Apr May
													Mortgag	ge banks	
	43.0 42.8	2.4 2.8		78.1 77.7	3.0 3.0	3.4 3.3		_ _	- -] :	87.4 88.3	8.9 8.9		2018 Apr May
											Build	ding and	loan asso	ociations	
	27.1 26.9	4.2 4.3	23.0 22.6	179.3 179.9	3.4 3.4	1.4 1.3	174.0 174.5	- -	0.4 0.4	0.4 0.4	0.1 0.1	3.1 3.1		11.1 11.2	2018 Apr May
									•	•		ther cent			
	320.9 326.3								_	_		649.7 664.4	78.9 79.1		2018 Apr May
-												mo item:	_		
	421.3 439.7						81.7 81.6	11.3	20.8	20.3	6.9	23.6			2018 Apr May
									-			owned b	-		
	167.7 174.8		89.7 95.3	389.6 390.4			56.4 56.4	11.5 11.3	20.6 20.5	20.1 20.1	6.9 6.8	22.8 23.3	41.3 41.2	77.5 82.5	2018 Apr May

contracts (see also footnote 2). **5** Including subordinated negotiable bearer debt securities; excluding non-negotiable bearer debt securities. **6** Commercial banks comprise the sub-groups "Big banks", "Regional banks and other commercial banks" and "Branches of foreign banks". **7** Deutsche Bank AG, Dresdner Bank AG (up to Nov. 2009), Commerzbank AG, UniCredit Bank AG (formerly Bayerische Hypo- und Vereinsbank AG), Deutsche Postbank AG (from December 2004 up to April 2018)

and DB Privat- und Firmenkundenbank AG (from May 2018) (see the explanatory notes in the Statistical Supplement to the Monthly Report 1, Banking statistics, Table I.3, banking group "Big banks"). **8** Sum of the banks majority-owned by foreign banks and included in other categories of banks and the category "Branches (with dependent legal status) of foreign banks". **9** Separate presentation of the banks majority-owned by foreign banks included in other banking categories.

3 Assets and liabilities of banks (MFIs) in Germany vis-à-vis residents *

	€ billion	ı	Ι										
			Lending to d	omestic bank	s (MFIs)				Lending to d	omestic non-	banks (non-N	FIs)	
Period	Cash in hand (euro-area banknotes and coins)	Credit balances with the Bundes- bank	Total	Credit balances and loans	Bills	Negotiable money market paper issued by banks	Securities issued by banks	<i>Memo</i> <i>item</i> Fiduciary loans	Total	Loans	Bills	Treasury bills and negotiable money mar- ket paper issued by non-banks	Securities issued by non- banks 1
											End	d of year o	month *
2008	17.4	102.6	1,861.7	1,298.1	0.0	55.7	507.8	2.0	3,071.1	2,698.9	1.2	3.1	367.9
2009	16.9	78.9	1,711.5	1,138.0	-	31.6	541.9	2.2	3,100.1	2,691.8	0.8	4.0	403.5
2010 2011	16.0 15.8	79.6 93.8	1,686.3 1,725.6	1,195.4 1,267.9		7.5 7.1	483.5 450.7	1.8 2.1	3,220.9 3,197.8	2,770.4 2,774.6	0.8 0.8	27.9 6.4	421.8 415.9
2012	18.5	134.3	1,655.0	1,229.1	_	2.4	423.5	2.4	3,137.8	2,774.0	0.6	2.2	432.1
2013	18.5	85.6	1,545.6	1,153.1	0.0	1.7	390.8	2.2	3,131.6	2,692.6	0.5	1.2	437.2
2014	18.9	81.3	1,425.9	1,065.6	0.0	2.1	358.2	1.7	3,167.3	2,712.2	0.4	0.7	454.0
2015 2016	19.2 25.8	155.0 284.0	1,346.6 1,364.9	1,062.6 1,099.8	0.0	1.7 0.8	282.2 264.3	1.7 2.0	3,233.9 3,274.3	2,764.0 2,823.8	0.4 0.3	0.4 0.4	469.0 449.8
2017	31.9	392.5	1,407.5	1,163.4	0.0	0.8	243.4	1.9	3,332.6	2,894.0	0.4	0.7	437.5
2016 Dec	25.8	284.0	1,364.9	1,099.8	0.0	0.8	264.3	2.0	3,274.3	2,823.8	0.3	0.4	449.8
2017 Jan	24.3	346.9	1,407.0	1,142.5	0.0	1.0	263.5	1.7	3,277.7	2,831.2	0.3	0.8	445.4
Feb Mar	23.6 23.4	346.6 352.1	1,413.8 1,423.3	1,150.2 1,160.4	0.0 0.0	1.1	262.5 261.6	1.8 1.7	3,279.0 3,283.0	2,836.8 2,840.6	0.3 0.3	0.8 1.0	441.1 441.1
Apr	24.4	400.2	1,424.8	1,161.7	0.0	1.1	262.0	1.7	3,288.9	2.848.6	0.3	1.1	438.9
May	25.4	426.0	1,415.5	1,152.3	0.0	1.1	262.1	1.7	3,292.9	2,851.3	0.3	1.8	439.6
June	27.0	417.8	1,391.1	1,130.4	0.0	1.2	259.4	1.7	3,296.8	2,855.9	0.2	1.1	439.6
July	26.4	420.0	1,398.0	1,139.4	0.0	1.4	257.2	1.7	3,302.5	2,865.2	0.3	1.0	436.0
Aug Sep	27.3 28.1	421.3 409.2	1,384.2 1,416.1	1,131.4 1,168.3	0.0 0.0	1.4 1.3	251.3 246.5	1.7 1.7	3,308.9 3,317.6	2,869.4 2,878.2	0.2 0.3	0.8 0.7	438.5 438.4
Oct	28.1	472.7	1,378.5	1,130.6	0.0	0.9	247.0	1.7	3,326.1	2,887.0	0.3	0.8	438.0
Nov	27.7	457.1	1,422.2	1,175.1	0.0	0.9	246.3	1.8	3,343.7	2,899.6	0.3	1.2	442.6
Dec	31.9	392.5	1,407.5	1,163.4	0.0	0.7	243.4	1.9	3,332.6	2,894.0	0.4	0.7	437.5
2018 Jan	29.0	448.1	1,421.7	1,176.0	0.0	0.7	245.1	2.5	3,339.3	2,904.9	0.3	1.0	433.1
Feb Mar	29.3 34.8	460.7 440.7	1,409.5 1,389.5	1,165.3 1,143.5	0.0 0.0	0.8	243.3 245.2	2.9 3.2	3,338.3 3,342.5	2,910.6 2,919.6	0.2 0.3	1.2 1.0	426.4 421.7
Apr	33.5	464.4	1,405.8	1,159.9	0.0	0.8	245.1	3.6	3,348.5	2,926.7	0.2	1.6	420.0
May	34.8			1,153.4									
												(hanges *
2009	- 0.5	- 23.6	- 147.2	- 157.3	- 0.0	- 24.1	+ 34.3	+ 0.2	+ 25.7	- 11.2	- 0.4	+ 1.4	+ 35.9
2010	- 0.9	+ 0.6	- 19.3	+ 61.5	± 0.0	- 24.0	- 56.8	- 0.3	+ 130.5	+ 78.7	+ 0.0	+ 23.8	+ 28.0
2011 2012	- 0.2	+ 14.2 + 40.5	+ 47.3 - 68.6	+ 80.5	-	- 0.4	- 32.8 - 26.5	- 0.1 + 0.1	- 30.6 + 21.0	- 3.2 + 9.8	+ 0.0 - 0.2	- 21.5	- 5.9 + 15.7
2012	+ 2.7 + 0.0	+ 40.5 - 48.8	- 204.1	- 37.5 - 170.6	+ 0.0	- 4.6 - 0.7	- 26.5 - 32.7	+ 0.1	+ 21.0 + 4.4	+ 9.8 + 0.3	- 0.2 - 0.1	- 4.3 - 0.6	+ 15.7 + 4.8
2014	+ 0.4	- 4.3	- 119.3	- 87.1	+ 0.0	+ 0.4	- 32.6		+ 36.7	+ 20.6	- 0.1	- 0.6	+ 16.8
2015	+ 0.3	+ 73.7	- 80.7	- 4.3	- 0.0	- 0.4	- 75.9	- 0.1	+ 68.9	+ 54.1	- 0.0	- 0.3	+ 15.1
2016 2017	+ 6.5 + 6.1	+129.1 +108.4	+ 48.1 + 50.3	+ 66.9 + 70.4	- 0.0	- 0.9 + 0.0	- 17.9 - 20.1	+ 0.4 - 0.1	+ 43.7 + 57.0	+ 62.8 + 70.2	- 0.1 + 0.0	- 0.1 + 0.4	- 18.9 - 13.6
2016 Dec	+ 3.1	- 7.7	- 32.7	- 29.0	_ 0.0	- 0.3	- 3.3	+ 0.3	- 19.0	- 16.4	+ 0.1	- 0.9	- 1.8
					_								
2017 Jan Feb	- 1.4 - 0.7	+ 62.9	+ 42.1 + 6.8	+ 42.6 + 7.7	_	+ 0.2 + 0.1	- 0.8 - 1.0	- 0.3 + 0.1	+ 3.3 + 1.4	+ 7.3 + 5.7	- 0.0 - 0.0	+ 0.5 - 0.0	- 4.4 - 4.2
Mar	- 0.3	+ 5.5	+ 9.5	+ 10.2	-	+ 0.2	- 0.9	- 0.0	+ 3.9	+ 3.7	+ 0.0	+ 0.2	- 0.0
Apr	+ 1.1	+ 48.1	+ 1.7	+ 1.3	-	l . .	+ 0.4		+ 5.9	+ 8.1	+ 0.0	+ 0.1	- 2.3
May June	+ 0.9 + 1.7	+ 25.8 - 8.2	- 9.4 - 23.5	- 9.5 - 20.9	_	- 0.0 + 0.1	+ 0.1 - 2.7	- 0.0 - 0.0	+ 3.9 + 4.0	+ 2.6 + 4.6	- 0.1 + 0.0	+ 0.7 - 0.6	+ 0.7 - 0.0
July	- 0.7	l					l	- 0.0			+ 0.0	- 0.2	
Aug	+ 0.9	+ 2.2 + 1.3	+ 6.9 - 13.8	+ 9.0 - 8.0	_	+ 0.2 + 0.0	- 2.2 - 5.9	+ 0.0	+ 5.6 + 6.4	+ 9.4 + 4.1	- 0.0	- 0.2	- 3.6 + 2.6
Sep	+ 0.8	- 12.1	+ 34.1	+ 38.3	- 0.0	- 0.1	- 4.1	- 0.0	+ 7.3	+ 8.8	+ 0.1	- 0.0	- 1.5
Oct	+ 0.1	+ 63.5	- 37.6	- 37.6	+ 0.0	- 0.4	+ 0.5	+ 0.0	+ 8.6	+ 8.8	- 0.0	+ 0.0	- 0.3
Nov Dec	- 0.4 + 4.1	- 15.6 - 64.6	+ 43.7 - 10.3	+ 44.4 - 7.3	- 0.0	- 0.0 - 0.2	- 0.7 - 2.9	+ 0.1 + 0.1	+ 17.7 - 11.1	+ 12.7 - 5.6	- 0.0 + 0.1	+ 0.4 - 0.5	+ 4.6 - 5.1
2018 Jan	- 2.9	+ 55.6	+ 13.7	+ 12.1		+ 0.0	+ 1.7	+ 0.6	+ 6.9	+ 11.0	- 0.1	+ 0.3	- 4.4
Feb	+ 0.3	+ 12.7	- 12.3	- 10.7	+ 0.0	+ 0.1	- 1.7	+ 0.4	- 1.0	+ 5.6	- 0.1	+ 0.2	- 6.7
Mar	+ 5.5	- 20.0	- 19.9	- 21.9	-	+ 0.1	+ 1.9	+ 0.3	+ 4.2	+ 9.1	+ 0.1	- 0.2	- 4.7
Apr May	- 1.3 + 1.3	+ 23.6 + 11.4	+ 16.8 - 5.8	+ 16.9 - 4.9	+ 0.0	- 0.0 + 0.1	- 0.0 - 1.1		+ 6.4 + 10.4	+ 7.1 + 10.8	- 0.0 - 0.0	+ 0.7 + 0.7	- 1.3 - 1.2

^{*} See Table IV.2, footnote*; statistical breaks have been eliminated from the changes. The figures for the latest date are always to be regarded as provisional. Subsequent revisions which appear in the following Monthly Report, are not specially marked. 1 Excluding debt securities arising from the exchange of equalisation claims

			Donosits of	domestic ba	nke (MEIe) 3			Donosits of	domestic no	n-hanks (nor	>-MEIs\			I
		Partici- pating	Deposits of	domestic ba	IIKS (IVIFIS) 3			Deposits of	domestic no	TI-Daliks (HOI	I-IVIFIS)			
		interests												
	Memo	in domestic					Memo						Мето	
Equalisa- tion	item Fiduciary	banks and		Sight deposits	Time deposits	Redis- counted	item Fiduciary		Sight de-	Time deposits	Savings de-	Bank savings	item Fiduciary	
claims 2	loans	enterprises	Total	4	4	bills 5	loans	Total	posits	6	posits 7	bonds 8	loans	Period
End of y	ear or m	onth *												
-	47.2 43.9	111.2 106.1	1,582.5 1,355.1	138.5 128.9	1,444.0 1,226.2	0.0	41.6 35.7	2,781.4 2,829.7	834.6 1,029.5	1,276.1 1,102.6	535.2 594.5		32.3 43.4	2008 2009
-		96.8	1,238.3	135.3	1,102.6	0.0	13.8	2,935.2	1,104.4	1,117.1	618.2		37.5	2010
_	1 111	94.6 90.0	1,210.5 1,135.5	114.8 132.9	1,095.3 1,002.6	0.0	36.1 36.3	3,045.5 3,090.2	1,168.3 1,306.5	1,156.2 1,072.5	616.1 617.6	104.8 93.6	36.5 34.9	2011 2012
-	31.6	92.3	1,140.3	125.6	1,014.7	0.0	33.2	3,048.7	1,409.9	952.0	610.1	76.6	32.9	2013
-	26.5	94.3	1,111.9	127.8	984.0	0.0	11.7	3,118.2		926.7	607.8	1	30.9	2014
_	20.4 19.1	89.6 91.0	1,065.6 1,032.9	131.1 129.5	934.5 903.3	0.0 0.1	6.1 5.6	3,224.7 3,326.7	1,673.7 1,798.2	898.4 889.6	596.5 588.5		29.3 28.8	2015 2016
-	19.1	88.1	1,048.2	110.7	937.4	0.0	5.1	3,420.9	1,941.0	853.2	582.9	43.7	30.0	2017
-	19.1	91.0	1,032.9	129.5	903.3	0.1	5.6	3,326.7	1,798.2	889.6	588.5	1	28.8	2016 Dec
_	20.3	90.8 89.4	1,052.6 1,054.6	136.9 141.4	915.6 913.1	0.1 0.0	5.5 5.6	3,346.3 3,345.5	1,812.5 1,816.6	895.8 891.4	588.5 588.5		30.6 30.5	2017 Jan Feb
-	20.1	89.1	1,077.0	137.4	939.6	0.0	5.5	3,342.8		890.9	586.7	48.2	30.4	Mar
-	20.1 20.0	88.8	1,074.8	140.7	934.2 937.5	0.0	5.5 5.5	3,360.3	1,844.4	881.9	586.2	47.8 47.0	30.3	Apr
_		88.7 88.4	1,079.5 1,053.9	142.0 125.6	937.5	0.0	5.5	3,368.4 3,370.3	1,852.2 1,869.2	883.4 869.8	585.7 584.7	46.6	30.4 29.8	May June
-	19.6	88.5	1,061.7	125.0	936.6	0.0	5.4	3,361.5	1,866.0	866.0	583.5		29.9	July
_	19.6 19.5	88.9 88.1	1,065.1 1,071.5	121.2 120.2	943.9 951.3	0.0 0.0	5.4 5.3	3,376.5 3,380.7	1,884.2 1,891.7	864.4 861.9	582.4 581.8		30.0 30.0	Aug Sep
_	19.4	87.9	1,081.0	122.8	958.2	0.0	5.3	3,396.5	1,916.8	853.4	581.5	1	29.9	Oct
-	19.4	88.1	1,079.8	125.9	953.9	0.0	5.3	3,426.8	1,944.0	857.5	581.0	44.3	30.1	Nov
_	19.1 18.9	88.1 88.2	1,048.2 1,060.1	110.7 116.0	937.4 944.1	0.0	5.1 5.0	3,420.9 3,428.9	1,941.0 1,949.3	853.2 854.1	582.9 582.4	1	30.0 30.4	Dec 2018 Jan
_	19.0	88.5	1,056.6	110.3	946.4	0.0	5.0	3,425.8	1,949.6	851.6	582.2	42.3	30.9	Feb
-	.0.5	88.5	1,056.3	118.6	937.7	0.0	5.0	3,421.8	1	850.7	581.3	1	31.5	Mar
_	18.8 18.8	89.2 93.8	1,052.8 1,035.9	118.2 107.1	934.6 928.9	0.0	5.0 5.0	3,439.5 3,471.4		846.3 847.7	580.5 580.2			Apr May
Change	s *													
-	- 4.2	+ 0.7	- 225.4	9.7	- 215.7	- 0.0	- 5.7	+ 59.7	+ 211.4	- 179.3	+ 59.3	- 31.6	- 0.9	2009
-		- 9.2	- 96.5	+ 22.3	- 119.1	- 0.0	- 0.2	+ 77.8		- 18.9	+ 24.0		- 1.7	2010
_		- 2.2 - 4.1	- 25.0 - 70.8	- 20.0 + 21.5	- 5.1 - 91.9	- 0.0 - 0.0	+ 0.1 + 0.2	+ 111.2 + 42.2		+ 40.9 - 86.7	- 2.6 + 1.5		- 1.1 - 1.6	2011 2012
-	- 3.3	+ 2.4	- 79.4	- 24.1	- 55.3	+ 0.0	- 3.4	+ 40.2	+ 118.4	- 53.9	- 7.4		- 1.7	2013
-	- 1.9 - 2.1	+ 2.0	- 29.0 - 46.6	+ 2.2 + 3.3	- 31.2 - 50.0	- 0.0 + 0.0	- 0.6 - 1.3	+ 69.7 + 106.5	+ 107.9 + 156.2	- 25.3 - 28.3	– 2.4 – 11.3	1	- 2.0 - 1.6	2014 2015
] -	- 1.3	+ 1.5	- 40.0	+ 0.3	- 2.0	+ 0.0	- 0.5	+ 104.7	+ 124.5	- 6.9	- 7.9	- 5.0	- 0.5	2016
-	- 0.0	- 1.6	+ 11.0	- 18.4	+ 29.4	- 0.0	- 0.5	+ 103.1	+ 142.8	- 27.5	- 5.6	1	+ 0.4	2017
-	+ 0.0	+ 1.6	- 8.2	- 16.4	+ 8.2	+ 0.0	- 0.0	- 2.2		- 2.8	+ 2.3	1	+ 0.2	2016 Dec
_	+ 1.2	- 0.2 - 1.4	+ 19.7 + 2.0	+ 7.4 + 4.6	+ 12.3	- 0.0	- 0.1 + 0.1	+ 19.6 - 0.8		+ 6.2 - 4.5	- 0.1 + 0.1	- 0.9 - 0.5	+ 1.0	2017 Jan Feb
-	- 0.1	- 0.3	+ 22.4	- 4.1	+ 26.5	- 0.0	- 0.1	- 2.7	+ 0.4	- 0.5	- 1.9	- 0.7	- 0.1	Mar
_	- 0.1 - 0.0	- 0.3 - 0.0	- 2.2 + 4.6	+ 3.3 + 1.3	- 5.5 + 3.3	- 0.0 - 0.0	- 0.0 + 0.0	+ 17.5 + 8.1		- 9.0 + 1.6	- 0.5 - 0.5		- 0.1 + 0.0	Apr May
] -	- 0.4	+ 0.0	- 24.6	- 16.1	- 8.5	+ 0.0	- 0.0	+ 10.9		- 4.6	- 1.0		- 0.6	June
-	- 0.0	+ 0.1	+ 7.8	- 0.5	+ 8.3		- 0.0	- 8.8		- 3.8	- 1.2		+ 0.2	July
-	- 0.0 - 0.1	+ 0.4 - 0.3	+ 3.5 - 3.3	- 3.9 - 1.0	+ 7.3 - 2.3	+ 0.0	- 0.1 - 0.1	+ 15.0 + 4.3		- 1.6 - 2.5	- 1.1 - 0.6		+ 0.1	Aug Sep
_	- 0.1	- 0.1	+ 9.5	+ 2.6	+ 6.9	_	+ 0.0	+ 15.7		- 8.5	- 0.3	1	- 0.0	Oct
-	- 0.0 - 0.3	+ 0.1 + 0.5	- 1.0 - 27.3	+ 3.1 - 15.0	- 4.2 - 12.2	- 0.0	+ 0.0 - 0.2	+ 30.3 - 5.9		+ 4.0 - 4.2	- 0.5 + 1.9		+ 0.1 - 0.1	Nov Dec
_	I	- 0.0	+ 11.9	+ 5.2	+ 6.7	+ 0.0	- 0.2	+ 7.6		+ 0.9	- 0.4	1	+ 0.4	2018 Jan
-	- 0.0	+ 0.4	- 3.5	- 5.8	+ 2.3	-	+ 0.0	- 3.1	+ 0.3	- 2.5	- 0.3	- 0.6	+ 0.5	Feb
_	1 .	+ 0.0 + 0.7	- 0.3 - 3.0	+ 8.3 + 0.3	- 8.7 - 3.2	+ 0.0	- 0.0 - 0.0	- 4.0 + 18.6		- 0.9 - 3.5	- 0.9 - 0.8	1	+ 0.5 + 0.4	Mar Apr
-			- 3.0 - 16.9				- 0.0							May

with the Bundesbank. **5** Own acceptances and promissory notes outstanding. **6** Since the inclusion of building and loan associations in January 1999, including deposits under savings and loan contracts (see Table IV.12). **7** Excluding deposits under

savings and loan contracts (see also footnote 8). ${\bf 8}$ Including liabilities arising from non-negotiable bearer debt securities.

4 Assets and liabilities of banks (MFIs) in Germany vis-à-vis non-residents *

	lior

		Lending to	foreign bank	s (MFIs)					Lending to	foreign non-	banks (non-N	ΛFIs)		
	Cash in hand		Credit balar	nces and loar	ns, bills	Negotiable				Loans and b	oills		Treasury bills and negotiable	
Period	(non- euro-area banknotes and coins)	Total	Total	Short- term	Medium and long- term	money market paper issued by banks	Securities issued by banks	Memo item Fiduciary loans	Total	Total	Short- term	Medium and long- term	money market paper issued by non-banks	Securities issued by non-banks
			1.0.00	1.0	1								of year o	
2008 2009	0.3	1,446.6 1,277.4	1,131.6 986.1	767.2 643.5	364.3 342.6	15.6 6.2	299.5 285.0	1.9 2.9	908.4 815.7	528.9 469.6	151.4 116.9	377.5 352.7	12.9 9.8	366.6 336.3
2010	0.5	1,154.1	892.7	607.7	285.1	2.1	259.3	1.8	773.8	461.4	112.6	348.8	10.1	302.3
2011 2012	0.6 0.8	1,117.6 1,046.0	871.0 813.5	566.3 545.5	304.8 268.1	4.6 5.4	241.9 227.0	2.6 2.6	744.4 729.0	455.8 442.2	102.0 105.1	353.8 337.1	8.5 9.0	280.1 277.8
2013 2014	0.2 0.2	1,019.7 1,125.2	782.4 884.8	546.6 618.7	235.8 266.1	7.2 7.9	230.1 232.5	2.5 1.1	701.0 735.1	404.9 415.2	100.3 94.4	304.6 320.8	8.2 6.5	287.8 313.5
2015 2016	0.3 0.3	1,066.9 1,055.9	830.7 820.6	555.9 519.8	274.7 300.7	1.2 0.5	235.0 234.9	1.0 1.0	751.5 756.2	424.3 451.6	83.8 90.1	340.5 361.4	7.5 5.0	319.7 299.6
2017	0.3	963.8	738.2	441.0	297.2	0.5	225.0	2.3	723.9	442.2	93.3	348.9	4.2	277.5
2016 Dec	0.3	1,055.9	820.6	519.8	300.7	0.5	234.9	1.0	756.2	451.6	90.1	361.4	5.0	299.6
2017 Jan Feb Mar	0.3 0.3 0.3	1,069.4 1,088.4 1,086.7	836.4 854.7 854.7	537.3 552.1 548.7	299.0 302.6 306.0	0.8 1.3 1.9	232.2 232.5 230.0	1.7 1.7 1.7	772.9 782.0 777.5	468.4 474.4 475.7	109.0 110.6 110.9	359.4 363.8 364.9	5.3 6.2 4.1	299.1 301.3 297.7
Apr	0.3	1,063.7	833.7	529.7	304.0	1.9	228.0	1.7	777.3	473.7	114.5	362.9	4.8	297.7
May June	0.3 0.3	1,037.5 1,043.5	804.3 812.2	506.9 515.4	297.4 296.8	2.2 2.3	231.0 229.0	1.9 1.9	771.7 756.2	475.9 461.8	112.3 102.5	363.6 359.3	5.1 6.3	290.8 288.1
July Aug	0.3	1,018.5 1.000.5	788.2 772.3	493.2 478.4	295.0 293.9	2.3 2.2	227.9 226.0	2.1 2.1	751.5 743.9	458.0 454.3	102.6 104.0	355.4 350.3	6.1 6.0	287.4 283.6
Sep	0.2	1,000.3	780.1	484.7	295.4	1.9	225.1	2.1	743.3	457.8	107.9	349.9	6.7	278.8
Oct Nov	0.3 0.3	996.7 988.3	769.4 761.0	473.5 467.6	295.9 293.4	1.9 1.4	225.3 225.9	2.1 2.2	739.9 736.5	457.9 454.9	104.8 105.5	353.1 349.3	6.5 6.4	275.6 275.2
Dec	0.3	963.8	738.2	441.0	297.2	0.7	225.0	2.3	723.9	442.2	93.3	348.9	4.2	277.5
2018 Jan Feb	0.3	985.4 999.3	758.1 770.8	466.7 477.7	291.4 293.1	1.8 2.1	225.5 226.3	2.2	735.1 742.5	450.6 459.1	105.6 111.5	345.0 347.7	5.5 6.2	279.1 277.2
Mar Apr	0.3	993.3 1,003.7	759.8 769.6	469.7 478.3	290.0 291.3	2.2	231.3 231.8	2.4	736.2 730.1	456.1 453.9	108.7 105.2	347.4 348.7	6.5 6.8	273.6 269.4
May	0.3	1,030.6	796.6	501.0	295.6	2.3	231.7	2.5	749.9	470.2	113.0	357.2		
2009	- 0.0	- 170.0	- 141.3	- 122.5	- 18.8	l – 10.3	- 18.4	- 0.2	- 72.8	l – 43.8	_ 31.7	- 12.1) 3.3 – ا	Changes * - 25.7
2010	+ 0.1	- 141.5	- 116.2	- 47.3	- 68.9	- 4.8	- 20.4	- 0.2	- 72.0 - 62.0	- 24.5	- 12.6	- 11.9	+ 0.4	- 38.0
2011 2012	+ 0.1 + 0.1	- 48.4 - 70.1	- 32.6 - 56.8	- 45.3 - 23.1	+ 12.7 - 33.7	+ 2.5 + 0.9	- 18.4 - 14.1	+ 0.0 - 0.1	- 38.9 - 9.4	- 13.6 - 7.5	- 12.8 + 8.3	- 0.9 - 15.9	- 1.6 + 0.6	- 23.6 - 2.5
2013 2014	- 0.5 - 0.0	- 22.7 + 86.1	- 26.9 + 80.1	- 1.3 + 63.2	- 25.6 + 16.8	+ 1.8 + 0.7	+ 2.4 + 5.3	- 0.0 - 0.6	- 21.2 + 5.7	- 33.1 - 10.2	- 5.8 - 12.8	- 27.2 + 2.7	- 0.7 - 1.8	+ 12.6 + 17.7
2015	+ 0.1	- 91.8	- 86.0	- 82.2	- 3.8	- 6.7	+ 0.8	- 0.1	- 6.1	- 9.2	- 6.5	- 2.7	+ 1.1	+ 2.0
2016 2017	+ 0.0 + 0.0	- 25.5 - 57.2	- 14.5 - 48.7	- 38.2 - 61.5	+ 23.7 + 12.8	- 0.7 + 0.0	- 10.3 - 8.5	- 0.0 + 0.6	+ 17.4 - 4.7	+ 28.9 + 13.0	+ 10.1 + 8.6	+ 18.8 + 4.4	- 3.0 + 0.7	- 8.5 - 18.4
2016 Dec	+ 0.0	- 20.7	- 19.9	- 23.1	+ 3.2	- 1.2	+ 0.4	- 0.0	- 10.7	- 9.1	- 13.4	+ 4.3	- 0.5	- 1.2
2017 Jan Feb	+ 0.0	+ 18.9 + 14.0	+ 21.1 + 13.5	+ 19.8 + 12.3	+ 1.3 + 1.2	+ 0.3 + 0.4	- 2.5 + 0.1	+ 0.0 + 0.0	+ 19.9 + 6.2	+ 19.5 + 3.5	+ 19.3 + 1.0	+ 0.2 + 2.5	+ 0.3 + 0.9	+ 0.1 + 1.8
Mar	- 0.0	+ 1.3	+ 3.0	- 1.8	+ 4.8	+ 0.4	- 2.1	- 0.0	- 2.7	+ 2.7	+ 0.6	+ 2.1	- 0.7	- 4.7
Apr May	+ 0.0	- 16.1 - 17.3	- 14.2 - 20.9	- 15.4 - 18.6	+ 1.2	+ 0.0 + 0.3	- 1.9 + 3.3	+ 0.0 + 0.2	- 0.1 + 2.8	+ 4.2 + 3.0	+ 3.8	+ 0.4 + 3.4	+ 0.6 + 0.4	- 4.9 - 0.6
June July	- 0.0 - 0.0	+ 11.0	+ 12.7 - 16.1	+ 10.9	+ 1.9 + 2.1	+ 0.1 + 0.0	- 1.9 - 0.7	+ 0.0 + 0.1	- 12.8 + 0.1	- 11.8 + 0.2	- 9.3 + 0.7	- 2.5 - 0.6	+ 1.2	- 2.2 + 0.1
Aug Sep	- 0.0 + 0.1	- 19.5 + 5.0	- 17.7 + 6.5	- 15.3 + 5.6	- 2.4 + 0.8	- 0.1 - 0.4	- 1.8 - 1.1	+ 0.0	- 0.5 - 0.8	+ 3.0 + 2.1	+ 3.8 + 3.4	- 0.7 - 1.4	- 0.2 - 0.0 + 0.7	- 3.5 - 3.5
Oct	+ 0.0	- 13.4	- 13.6	- 12.3	- 1.3	+ 0.1	+ 0.2	+ 0.0	- 5.3	- 1.5	- 3.4	+ 2.0	- 0.2	- 3.6
Nov Dec	- 0.0 - 0.0	- 3.2 - 21.1	- 3.4 - 19.6	- 3.4 - 25.1	- 0.1 + 5.5	- 0.5 - 0.7	+ 0.7 - 0.8	+ 0.0 + 0.1	- 0.8 - 10.7	- 0.9 - 11.1	+ 1.0 - 11.9	- 1.9 + 0.8	- 0.0 - 2.2	+ 0.1 + 2.5
2018 Jan	+ 0.0	+ 30.6	+ 28.8	+ 29.7	- 0.9	+ 1.1	+ 0.7	- 0.1	+ 15.8	+ 12.3	+ 12.8	- 0.6	+ 1.3	+ 2.3
Feb Mar	- 0.0 - 0.0	+ 8.4 - 3.1	+ 7.4 - 8.3	+ 8.2 - 6.3	- 0.8 - 2.0	+ 0.3 + 0.0	+ 0.7 + 5.1	+ 0.1 + 0.1	+ 4.9 - 5.1	+ 6.5 - 2.1	+ 5.4 - 2.6	+ 1.1 + 0.5	+ 0.7 + 0.4	- 2.3 - 3.4
Apr May	+ 0.0	+ 6.0 + 16.9	+ 5.4 + 17.3	+ 6.6 + 17.3	- 1.2 - 0.0	+ 0.2 - 0.0	+ 0.5 - 0.4	+ 0.0 + 0.0	- 8.2 + 14.7	- 4.1 + 12.1	- 3.9 + 7.0	- 0.3 + 5.1	+ 0.2 - 1.5	- 4.3 + 4.2
May	- 0.0	+ 16.9	+ 17.3	+ 17.3		- 0.0	- 0.4	+ 0.0	+ 14.7	+ 12.1	+ 7.0	+ 5.1		+ 4.2

^{*} See Table IV.2, footnote*; statistical breaks have been eliminated from the changes. The figures for the latest date are always to be regarded as provisional. Subsequent revisions, which appear in the following Monthly Report, are not specially marked.

		Deposits of	foreign bank	s (MFIs)				Deposits of	foreign non-	banks (non-l	MFIs)			
	Partici- pating interests			Time depos	its (including	bank					its (including losits and bai los)			
Memo item Fiduciar loans	in foreign banks and	Total	Sight deposits	Total	Short- term	Medium and long- term	Memo item Fiduciary loans	Total	Sight deposits	Total	Short- term	Medium and long- term	Memo item Fiduciary loans	Period
End c	of year or m	onth *												
	25.5 45.4 2.1 45.4		218.1 213.6	485.1 439.0	362.3 307.4	122.9 131.6	0.3 0.2	286.1 216.3	92.2 78.1	193.9 138.2	95.1 73.7	98.8 64.5	2.5 1.9	2008 2009
3 3	5.6 48.8 52.9 45.0 52.6 46.4 50.8 39.0 4.0 35.0	655.7 691.1 515.7	258.7 242.6 289.4 222.6 277.1	483.0 413.1 401.7 293.2 332.1	349.3 289.4 284.6 196.0 242.7	133.6 123.7 117.0 97.2 89.4	0.1 0.1 0.1 0.1 0.1	227.6 225.9 237.6 257.8 221.0	84.8 92.3 107.2 118.1 113.0	142.7 133.6 130.3 139.7 107.9	76.7 66.9 69.1 76.8 47.8	66.0 66.6 61.2 62.9 60.1	1.5 1.3 1.2 1.0 0.7	2010 2011 2012 2013 2014
1 1	3.1 30.9 3.1 28.3 2.1 24.3 3.1 28.3	696.1 659.0	323.4 374.4 389.6 374.4	288.5 321.6 269.4 321.6	203.8 234.2 182.4 234.2	84.7 87.5 87.0 87.5	0.1 0.0 0.0 0.0	201.1 206.2 241.2 206.2	102.6 100.3 109.4 100.3	98.5 105.9 131.8 105.9	49.3 55.2 68.1 55.2	49.2 50.8 63.8 50.8	0.7 0.7 0.3 0.7	2015 2016 2017 2016 Dec
1 1	3.0 28.4 3.0 24.8 2.9 24.1	746.1 765.2	452.6 480.7 488.1	293.5 284.5 280.7	206.4 197.4 192.1	87.1 87.1 88.6	0.0 0.0 0.0	246.7 254.0 237.6	125.6 129.5 113.7	121.1 124.5 124.0	71.1 74.8 72.2	50.8 50.0 49.7 51.8	0.7 0.7 0.7 0.7	2017 Jan Feb Mar
1 1	2.9 24.8 2.8 24.6 2.5 24.6	732.4 720.3	429.4 464.0 463.2	322.0 268.4 257.1	234.2 181.8 170.1	87.7 86.5 87.0	0.0 0.0 0.0	271.9 269.4 259.9	132.3 134.1 123.7	139.7 135.3 136.1	89.0 85.0 75.7	50.6 50.3 60.4	0.7 0.6 0.6	Apr May June
1 1	2.5 24.4 2.4 24.8 2.3 24.8	648.0 691.5	441.0 389.2 430.5 433.6	251.4 258.9 261.0 254.0	165.5 174.0 176.6 169.4	85.9 84.9 84.3 84.7	0.0 0.0 0.0	282.5 286.0 279.1 282.8	137.7 133.1 133.5 132.3	144.8 152.9 145.7 150.5	84.4 92.5 84.3 87.9	60.5 60.4 61.4 62.6	0.6 0.5 0.5 0.4	July Aug Sep Oct
1 1	2.4 24.3 2.1 24.3 2.0 24.3	694.2 659.0	428.8 389.6 450.8	265.4 269.4 261.0	179.7 182.4 172.7	85.7 87.0 88.3	0.0 0.0 0.0	284.4 241.2 275.0	140.6 109.4 130.5	143.8 131.8 144.6	81.7 68.1 82.2	62.1 63.8 62.3	0.4 0.3 0.3	Nov Dec 2018 Jan
1	2.1 23.1 2.2 24.0 2.3 23.0	668.6	441.2 385.6 410.6	274.5 283.0 274.7	185.5 196.4 188.3	89.0 86.5 86.4	0.0 0.0 0.0	279.6 272.9 282.6	134.8 126.3 138.4	144.8 146.6 144.2		59.3 58.8 59.0	0.3 0.3 0.3	Feb Mar Apr
Chan	2.2 23.3 nes *	7 730.1	452.6	277.4	188.0	89.4	0.0	285.8	140.5	145.4	86.9	58.5	0.3	May
-	3.2 + 0.º	- 81.4	_ 2.1	- 79.3	- 57.5	- 21.7	- 0.2	- 33.5	- 13.3	_ 20.1	- 17.0	- 3.1	- 0.6	2009
+ - - +	0.2 + 1.4 0.1 - 3.9 0.3 + 1.9 1.8 - 7.2 0.1 - 3.8	9 - 88.8 5 + 38.2 2 - 174.0 3 + 76.3	+ 42.0 - 13.8 + 51.7 - 75.6 + 47.8	+ 542.4 - 75.0 - 13.5 - 98.4 + 28.5	+ 38.1 - 61.8 - 7.5 - 83.1 + 39.0	+ 136.8 - 13.1 - 6.0 - 15.4 - 10.5	- 0.1 - 0.0 - 0.0 - 0.0 - 0.0	- 1.6 - 9.3 + 12.6 + 13.5 - 43.6	+ 6.0 + 6.4 + 15.2 + 9.6 - 8.3	- 7.6 - 15.7 - 2.6 + 3.9 - 35.3	- 10.4 + 2.5 + 6.9 - 30.7	- 4.4 - 5.3 - 5.1 - 3.0 - 4.6	- 0.4 - 0.2 - 0.1 - 0.2 + 0.2	2010 2011 2012 2013 2014
- - -	0.6 - 6.7 0.1 - 1.5 1.0 - 4.7 0.1 - 0.3	+ 82.7 - 15.5	+ 40.6 + 51.0 + 25.3 - 42.7	- 56.0 + 31.7 - 40.8 + 33.5	- 48.6 + 27.0 - 43.2 + 30.2	- 7.4 + 4.7 + 2.4 + 3.3	- 0.0 - 0.0 ± 0.0 - 0.0	- 26.5 + 3.5 + 31.8 - 60.5	- 13.9 - 3.1 + 11.0 - 38.2	- 12.6 + 6.7 + 20.8 - 22.3	+ 0.3 + 5.9 + 15.6 - 24.1	- 13.0 + 0.8 + 5.2 + 1.8	- 0.0 - 0.0 - 0.4 + 0.0	2015 2016 2017 2016 Dec
- - -	0.0 - 0.2 0.1 - 3.6 0.0 - 0.0	+ 15.9 + 5.5	+ 79.0 + 26.6 + 8.3	- 26.1 - 10.7 - 2.8	- 26.2 - 10.3 - 4.5	+ 0.1 - 0.4 + 1.7	- - -	+ 41.2 + 6.6 - 15.9	+ 25.6 + 3.7 - 15.7	+ 15.6 + 2.9 - 0.2	+ 16.2 + 3.4 - 2.4	- 0.6 - 0.4 + 2.2	- 0.0 + 0.0 - 0.0	2017 Jan Feb Mar
- - -	0.0 + 0.0 0.1 - 0.0 0.3 - 0.0 0.0 + 0.0	- 13.8 - 9.0	- 56.2 + 36.5 + 0.6 - 19.7	+ 43.4 - 50.3 - 9.6 - 4.2	+ 43.7 - 49.8 - 10.5 - 3.7	- 0.4 - 0.5 + 0.9 - 0.5	- - + 0.0	+ 34.4 - 0.9 - 17.8 + 24.0	+ 18.2 + 2.4 - 10.0 + 14.4	+ 16.2 - 3.3 - 7.8 + 9.6	+ 17.1 - 3.3 - 9.0 + 9.3	- 0.9 - 0.0 + 1.2 + 0.3	- 0.0 - 0.0 - 0.0	Apr May June July
- - -	0.1 + 0.0 0.0 + 0.4 0.1 - 0.0	- 42.9 + 42.4 - 5.9	- 51.2 + 41.0 + 2.4	+ 8.3 + 1.5 - 8.3	+ 9.1 + 2.1 - 8.3	- 0.8 - 0.7 + 0.0	- 0.0 	+ 4.6 - 7.2 + 3.0	- 4.0 + 0.2 - 1.4	+ 8.6 - 7.4 + 4.4	+ 8.5 - 8.4 + 3.4	+ 0.0 + 0.9 + 1.1	- 0.1 + 0.0 - 0.1	Aug Sep Oct
+ - -	0.1 - 0.0 0.3 - 0.4 0.1 - 0.0 0.1 - 0.1	4 – 33.3) + 57.4	- 3.6 - 38.4 + 63.5 - 10.9	+ 13.0 + 5.1 - 6.1 + 12.0	+ 11.6 + 3.5 - 5.0 + 11.7	+ 1.4 + 1.5 - 1.1 + 0.3	- - - 0.0	+ 2.3 - 42.5 + 35.0 + 3.9	+ 8.6 - 31.0 + 21.4 + 4.0	- 6.2 - 11.6 + 13.6 - 0.2	- 5.9 - 13.4 + 14.4 + 3.0	- 0.4 + 1.8 - 0.8 - 3.2	- 0.0 - 0.1 - 0.0 + 0.0	Nov Dec 2018 Jan Feb
+ + + -	0.1 - 0.3 0.1 + 0.3 0.1 - 0.9 0.0 + 0.7	3 - 45.8 5 + 13.1	- 10.9 - 55.0 + 22.9 + 40.1	+ 9.1 - 9.8	+ 11.5 - 9.3	- 2.3 - 0.5	+ 0.0	+ 3.9 - 6.4 + 9.1 + 1.9	- 8.3 + 11.9	+ 1.9 - 2.8	+ 2.3 - 2.9	- 0.4 + 0.0	- 0.0 + 0.0	Mar Apr May

IV Banks

5 Lending by banks (MFIs) in Germany to domestic non-banks (non-MFIs) *

	Lending to	domest	ic		Short-te	rm lend	ding												Medi	um and lo	ng-terr	n
	non-banks,	total					to enter	prises a	nd hous	eholds			to gen	eral gove	ernment						to ent	er-
	including negotiable market pap securities, equalisation	money er,	xcluding	J	Total		Total		Loans and bills		Negoti- able money market paper		Total		Loans		Treasury bills		Total	.	Total	
																		E	nd o	f year	or mo	onth
		071.1		,700.1 ,692.6		373.0 347.3		337.5 306.3		335.3 306.2		2.2 0.1		35.5 41.0		34.5 37.1		1.0 3.9		2,698.1 2,752.8		2,257. 2,299.
	3,1 3,2 3,1	220.9 197.8 220.4 131.6 167.3	2 2 2	2,771.3 2,775.4 2,786.1 2,693.2 2,712.6		428.0 383.3 376.1 269.1 257.5		283.0 316.5 316.8 217.7 212.7		282.8 316.1 316.3 217.0 212.1		0.2 0.4 0.5 0.6 0.6		145.0 66.8 59.3 51.4 44.8		117.2 60.7 57.6 50.8 44.7		27.7 6.0 1.7 0.6 0.1		2,793.0 2,814.5 2,844.3 2,862.6 2,909.8		2,305 2,321 2,310 2,328 2,376
	3,2	233.9 274.3 332.6	2	,764.4 ,824.2 ,894.4		255.5 248.6 241.7		207.8 205.7 210.9		207.6 205.4 210.6		0.2 0.3 0.3		47.8 42.9 30.7		47.5 42.8 30.3		0.2 0.1 0.4		2,978.3 3,025.8 3,090.9		2,451 2,530 2,640
ec an eb 1ar	3,2 3,2	274.3 277.7 279.0 283.0	2	2,824.2 2,831.5 2,837.1 2,840.9		248.6 252.1 252.8 252.7		205.7 208.6 209.7 212.6		205.4 208.0 209.1 211.8		0.3 0.6 0.7 0.8		42.9 43.5 43.1 40.0		42.8 43.3 42.9 39.8		0.1 0.2 0.1 0.2		3,025.8 3,025.6 3,026.2 3,030.4		2,535 2,535 2,547 2,547
pr lay ine	3,2 3,2	288.9 292.9 296.8	2	2,849.0 2,851.5 2,856.1		253.7 253.7 249.3 251.1		210.6 211.0 214.1		209.8 210.0 213.5		0.8 0.9 0.6		43.1 38.4 37.0		42.8 37.5 36.5		0.2 0.3 0.8 0.5		3,035.2 3,043.5 3,045.7		2,55 2,56 2,56 2,57
ıly ug ep	3,3 3,3	802.5 808.9 817.6	2	,865.5 ,869.6 ,878.5		249.4 242.8 246.2		210.2 207.6 214.1		209.5 207.0 213.5		0.7 0.6 0.6		39.2 35.2 32.2		38.8 35.0 32.0		0.3 0.2 0.2		3,053.1 3,066.1 3,071.3		2,58 2,60 2,60
ct ov ec	3,3	326.1 343.7 332.6	2	2,887.3 2,899.8 2,894.4		248.0 248.0 241.7		215.3 215.4 210.9		214.7 214.9 210.6		0.6 0.5 0.3		32.7 32.6 30.7		32.6 31.9 30.3		0.2 0.7 0.4		3,078.1 3,095.6 3,090.9		2,61 2,63 2,64
an eb Iar	3,3	339.3 338.3 342.5	2	,905.2 ,910.8 ,919.9		249.7 247.6 253.5		217.4 219.8 225.6		216.8 219.3 224.9		0.6 0.6 0.7		32.3 27.8 27.9		31.9 27.1 27.6		0.4 0.6 0.2		3,089.6 3,090.7 3,089.0		2,64 2,65 2,65
pr lay		348.5 350.0		,926.9 ,928.9		254.0 254.5		223.0 226.6		222.1 225.4		0.9 1.2		31.0 27.9		30.3 26.8		0.7 1.1		3,094.5 3,095.5		2,66 2,66
																					Cha	nge
	+ 1 - + +	25.7 30.5 30.6 21.0 4.4 36.7	- + - + +	11.6 78.7 3.2 9.6 0.1 20.5	+ - - - -	26.1 80.4 45.2 9.7 13.8 11.6	- + - - -	31.5 23.4 33.6 1.6 5.8 4.5	- + - -	30.0 23.5 33.3 1.7 6.3 4.5	- + + + +	1.5 0.1 0.2 0.1 0.5 0.0	+ +	5.5 103.8 78.7 8.2 8.0 7.1	+ + - - -	2.5 80.1 57.0 3.8 7.0 6.5	+ +	2.9 23.7 21.7 4.3 1.1 0.6	+ + + + +	51.8 50.1 14.6 30.7 18.2 48.3	+ + + + + +	36 14 9 10 11 52
		68.9 43.7 57.0	+ + +	54.1 62.7 70.2	+ - -	1.6 5.2 6.5	- - +	1.3 0.3 5.6	- - +	0.9 0.4 5.6	- + +	0.4 0.1 0.0	+ - -	2.9 4.9 12.1	+ - -	2.8 4.8 12.4	+ - +	0.1 0.2 0.3	+ + +	67.2 48.9 63.5	+ + +	7 7 10
ec an eb 1ar	+ + +	3.3 1.4 3.9	- + +	7.3 5.6 3.7	+ +	19.0 3.5 0.7 0.2	+ + +	10.1 2.9 1.2 2.8	+ + +	9.9 2.5 1.1 2.7	- + +	0.2 0.3 0.1 0.1	+ -	0.6 0.4 3.0	+ - -	0.5 0.3 3.1	+ - +	0.7 0.1 0.1 0.1	+ - + +	0.0 0.2 0.6 4.1	+ + + + +	
pr lay ine	+ + +	5.9 3.9 4.0	+ + +	8.1 2.5 4.6	+ - +	1.0 4.0 1.9	- + +	2.0 0.7 3.3	- + +	2.0 0.5 3.6	- + -	0.0 0.1 0.3	+ -	3.0 4.7 1.4	+	2.9 5.2 1.1	+ + -	0.1 0.5 0.3	+ +	4.9 8.0 2.1	+ + +	1
uly ug ep	+ + +	5.6 6.4 7.3	+ + +	9.4 4.1 8.9	- - +	1.8 6.6 3.5	- - +	3.9 2.6 6.5	- - +	4.0 2.5 6.5	+ - -	0.1 0.1 0.0	+ - -	2.2 4.0 3.0	+ - -	2.4 3.8 3.0	- - -	0.2 0.1 0.0	++++	7.4 13.0 3.9	+ + +	1
ov ec	-	8.6 17.7 11.1	+ + -	8.8 12.6 5.5	+ + -	1.8 0.1 6.4	+ +	1.2 0.2 4.5	+ + -	1.2 0.3 4.3	+ - -	0.0 0.1 0.2	+ - -	0.6 0.1 1.9	+ - -	0.6 0.6 1.6	+ + -	0.0 0.5 0.3	+ + -	6.8 17.6 4.7	+ + +	1
n eb ar or	+ - + +	6.9 1.0 4.2 6.4	+ + + +	11.0 5.5 9.2 7.0	+ + +	8.0 2.1 5.9	+ + + -	6.5 2.4 5.8 2.6	+ + +	6.1 2.5 5.7 2.8	+ + +	0.3 0.1 0.2 0.2	+ - + +	1.6 4.5 0.1 3.1	+ - + +	1.6 4.8 0.5 2.6	- + - +	0.1 0.3 0.4 0.5	+ -	1.2 1.1 1.7 5.9	+ + + +	

^{*} See Table IV.2, footnote*; statistical breaks have been eliminated from the changes. The figures for the latest date are always to be regarded as provisional. Subsequent revisions, which appear in the following Monthly Report, are not specially

0.5

10.8

3.6

3.3

+ 0.3

3.1

May

10.4

0.4

3.5

9.9

lending													1
prises and ho	useholds				to ger	neral do	vernment						
Loans	a.Jerrorus				io gei	.c.a. yo	Loans						
Total	Medium- term	Long- term	Securities	Memo item Fiduciary loans	Total		Total	Medium- term	Long- term	Secur- ities 1	Equal- isation claims 2	Memo item Fiduciary loans	Period
End of ye	ar or mon	th *											
2,022.0 2,051.3			235.8 248.4	42.8 39.6		440.3 453.1	308.2 298.0					4.5	2008 2009
2,070.0 2,099.5 2,119.5 2,136.9 2,172.7	238.1 247.9 249.7 248.0 251.7	1,831.8 1,851.7 1,869.8 1,888.9 1,921.0	235.7 222.4 191.4 191.7 204.2	30.7 32.7 31.4 28.9 24.4		487.3 492.6 533.4 534.0 532.9	301.2 299.1 292.7 288.4 283.1	36.1 41.1 39.4 38.8 33.5	258.0 253.3 3 249.7 5 249.6	240.7 245.6 249.8	- - -	3.1 3.6 3.5 2.7 2.1	2010 2011 2012 2013 2014
2,232.4 2,306.5 2,399.5 2,306.5	256.0 264.1 273.5 264.1	1,976.3 2,042.4 2,125.9 2,042.4	219.0 223.4 240.6 223.4	18.3 17.3 17.4 17.3		527.0 495.8 450.9 495.8	277.0 269.4 254.0 269.4	27.9 23.9 22.5 23.9	245.5 231.5	250.0 226.4 196.9 226.4	-	2.1 1.8 1.7 1.8	2015 2016 2017 2016 De
2,311.3 2,316.5 2,322.0 2,331.2	264.5 263.2 264.4 265.4	2,046.8 2,053.3 2,057.6 2,065.9	224.0 225.1 225.5 226.8	18.6 18.5 18.4 18.4		490.3 484.7 482.9 477.2	268.9 268.6 267.3 265.1	24.2 25.0 24.6 23.6	2 244.7 2 243.7 5 242.7 5 241.5	221.4 216.1 215.6 212.0	- - -	1.7 1.7 1.7 1.7	2017 Jar Fel Ma
2,342.6 2,346.1 2,357.7 2,369.2	266.2 267.4 268.3 269.4	2,076.4 2,078.7 2,089.4 2,099.8	226.2 231.6 231.5 232.0	18.3 18.0 18.0 18.0		474.8 468.0 463.9 464.9	261.3 260.0 259.4 258.4	23.1 22.9	237.0 236.3 235.5	208.1 204.5 206.5	- -	1.7 1.6 1.6 1.6	Ma Jui Jul Au
2,376.0 2,383.4 2,397.7 2,399.5	269.6 270.9 274.4 273.5	2,106.3 2,112.5 2,123.3 2,125.9	232.7 233.2 238.6 240.6	17.9 17.8 17.8 17.4		462.7 461.4 459.3 450.9	257.0 256.6 255.4 254.0	22.8	234.0 232.6	204.8	-	1.6 1.6 1.6 1.7	Se Od Nd De
2,405.7 2,414.1 2,419.5 2,428.6	274.8 275.1 275.2 277.1	2,130.8 2,139.0 2,144.2 2,151.5	239.5 236.3 233.8 236.0	17.4 17.5 17.4 17.3		444.4 440.3 435.8 430.0	250.9 250.3 247.9 245.9	22.0 21.9 22.1 21.9	228.4 225.8	193.6 190.1 187.9 184.0	-	1.5 1.5 1.6 1.5	2018 Ja Fe M
2,431.2 Changes	270.8					427.7	245.5						M
+ 23.5 + 18.6 + 22.6 + 21.6 + 17.7 + 39.9	+ 17.3	+ 6.3 + 22.6 + 20.4 + 20.1 + 17.8 + 34.3	+ 13.1 - 3.8 - 13.2 - 10.7 - 0.1 + 12.5	- 3.9 - 1.7 - 1.0 - 1.1 - 2.5 - 1.8	+	15.2 35.2 5.2 19.8 0.6 4.1	- 7.6 + 3.5 - 2.1 - 6.6 - 4.3 - 8.5	+ 3.5 + 4.9	- 0.0 - 7.0 - 4.7 - 3.6	+ 31.7 + 7.3 + 26.4 + 4.9	=	- 0.2 - 0.3 - 0.2 - 0.2 - 0.8 - 0.2	2009 2010 2011 2012 2013 2014
+ 59.0 + 75.1 + 87.6 + 3.4 + 4.8 + 5.1	+ 4.5 + 9.7 + 9.4 - 0.5 + 0.3 - 1.3	+ 54.6 + 65.4 + 78.2 + 3.9 + 4.5 + 6.4	+ 14.8 + 4.7 + 15.8 + 0.5 + 1.1	- 2.1 - 0.9 + 0.1 + 0.0 + 1.3 - 0.1	- - - -	6.6 30.9 39.9 3.8 5.5 5.6	- 6.9 - 7.3 - 10.6 - 1.5 - 0.5 - 0.2	- 4.8 - 4.0 - 1.3 - 0.4 + 0.3 + 0.8	- 3.3 - 9.3 - 1.1 - 0.8	- 23.6 - 29.4 - 2.3 - 5.0	- - -	+ 0.0 - 0.4 - 0.1 - 0.0 - 0.0 - 0.0	2015 2016 2017 2016 De 2017 Ja Fe
+ 5.5 + 9.3 + 8.5 + 3.4 + 11.4 + 11.5 + 6.6	+ 0.8 + 1.2 + 1.0 + 1.1	+ 4.3 + 8.3 + 7.7 + 2.2 + 10.4 + 10.4 + 6.4	+ 0.4 + 1.3 - 0.7 + 5.4 - 0.1 + 0.5 - 0.8	- 0.1 - 0.0 - 0.3 - 0.0 - 0.0 - 0.0	- + - - +	1.8 5.7 0.1 6.7 4.0 1.0 2.0	- 1.4 - 2.2 - 1.3 - 1.3 - 0.4 - 1.1 - 1.2	- 1.0 - 0.2 - 0.3	0 - 1.1 2 - 1.1 3 - 1.0 1 - 0.5 3 - 0.8	- 3.6 + 1.4 - 5.4 - 3.6 + 2.0	- - - -	- 0.0 - 0.0 - 0.0 - 0.1 + 0.0 - 0.0 - 0.0	M Aş M Ju Ju Aı Se
+ 7.4 + 12.4 + 1.7 + 5.7 + 8.2 + 5.4	+ 1.3 + 3.5 - 0.9 + 1.6 + 0.3 + 0.2	+ 6.1 + 9.0 + 2.5 + 4.2 + 8.0 + 5.2	+ 0.6 + 5.4 + 2.0 - 1.0 - 3.2 - 2.5	- 0.1 - 0.0 - 0.4 - 0.0 - 0.0 - 0.1	- - -	1.2 0.3 8.3 5.9 3.9 4.6	- 0.3 + 0.5 - 1.3 - 2.5 - 0.4 - 2.4	+ 0.2 + 0.1 - 0.3 - 0.5 - 0.1 + 0.1	2 - 0.5 1 + 0.4 3 - 1.0 5 - 2.0 1 - 0.3 1 - 2.5	- 0.9 - 0.8 - 7.1 - 3.4 - 3.5 - 2.2	- - - - -	- 0.0 + 0.1 - 0.1 - 0.0 + 0.0	On Ni Di 2018 Ja Fe M
1	+ 0.2 + 1.8	+ 5.2 + 7.3	- 2.5 + 2.5	- 0.1 - 0.1	-			+ 0.1 - 0.2	2 – 2.5 2 – 1.8	- 2.2 - 3.9	-	+ 0.0	

6 Lending by banks (MFIs) in Germany to domestic enterprises and households, housing loans, sectors of economic activity *

	€ billion														_
	Lending to	domestic ent	erprises and	l households	excluding ho	ldings of ne	gotiable mon	ey market pa	per and excl	uding securit	ies portfolios) 1			_
		of which													
			Housing lo	ans		Lending to	enterprises a	nd self-emplo	oyed persons						_
Period	Total	Mortgage loans, total	Total	Mortgage loans secured by residen- tial real estate	Other housing loans	Total	of which Housing loans	Manufac- turing	Electricity, gas and water supply; refuse disposal, mining and quarrying	Construc-	Whole- sale and retail trade; repair of motor vehicles and motor- cycles	Agri- culture, forestry, fishing and aqua- culture	Transport- ation and storage; post and telecom- munica- tions	Financial intermedi ation (excluding MFIs) and insurance com- panies	i- g d
	Lending	, total	_									End of	f year or	quarter	*
2016	2,512.0	1,259.7	1,276.0	1,016.5	260.1	1,347.5	354.1	125.1	104.7	62.2	128.2	50.6	57.0	139.	.7
2017 Mar June Sep Dec 2018 Mar	2,533.8 2,559.7 2,589.5 2,610.1 2,644.4	1,267.0 1,280.1 1,296.7 1,304.3 1,317.6	1,283.3 1,297.8 1,315.3 1,326.0	1,033.7 1,046.9 1,053.0	260.8 264.1 268.8 273.6 276.7		360.9 366.5 368.5	129.4 131.5 131.8 131.3 136.0	108.3 109.7 112.6	66.9 65.7 67.1 67.3	130.8 133.3 133.3		54.7 53.0 51.5	141. 146. 147.	.5 5.0 7.9
2016 IVIAI	Short-term		1,330.	1,001.5	270.7	1,423.3	1 3/3.4	130.0	1113.2	09.4	137.3	30.1	31.2	1 151.	7
2016	205.5	l –	l 6.9	al _	6.9	174.3	3.7	29.7	4.4	11.8	43.2	3.6	4.4	. 29.	, 3
2017 Mar	211.8	_	6.9	1	6.9	181.3		33.6	1	13.6				1	- 1
June Sep	213.6 213.5	_	6.1 6.1	7 -	6.7 6.5	183.3 183.5	3.5	34.7	4.7	13.7 14.0	43.3	4.0	4.6 4.3	28.	3.1
Dec	210.6	_	6.5		6.5										
2018 Mar	224.9	-	6.8	3 –	6.8	195.3	3.8	36.6	5.0	14.9	48.4	3.5	4.2	29.	.1
	Medium-te	rm lending													
2016	264.1	-	34.	5 -	34.5	186.4	13.5	23.6	5.5	10.5	17.2	4.5	11.2	41.	.8
2017 Mar	264.4	-	34.0		34.0					11.4					
June Sep	267.4 269.6	_	33.8 33.9		33.8 33.9	188.7 190.2		23.3 23.1	5.0 5.1	10.9 11.2		4.4 4.4			
Dec	273.5	- -	34.0		34.0					11.3			10.3		
2018 Mar	275.2	-	34.0)	34.0	194.0	14.4	23.3	5.0	11.7	18.6	4.2	10.4	. 47.	.0
	Long-term	lending													
2016	2,042.4	1,259.7	1,235.	1,016.5	218.6	986.8	336.9	71.8	94.8	39.9	67.7	42.5	41.4	68.	.6
2017 Mar	2,057.6	1,267.0	1,242.4	1,022.4	220.0			72.5		41.9		42.3			
June Sep	2,078.7 2,106.3	1,280.1 1,296.7	1,257.1 1,275.1		223.6 228.3	1,005.8 1,018.9		73.5 74.9		41.1 41.9	69.3 69.9	42.6 42.6	39.4 38.3		
Dec	2,125.9	1,304.3	1,286.			1,029.2	351.0			42.4		1	37.2	73.	8.8
2018 Mar	2,144.2	1,317.6	1,297.	1,061.5	235.8	1,040.2	355.2	76.1	105.2	42.8	70.4	42.3	36.7	75.	.3
	Lending,	, total										Change	e during	quarter	. *
2017 Q1	+ 21.7	+ 7.3	+ 6.0	5 + 5.8	+ 0.7	+ 16.8	3 + 2.6	+ 4.3	+ 0.5	+ 2.0	+ 3.3	- 0.1	- 1.1	+ 1.	.2
Q2	+ 23.3	+ 12.7	+ 13.8	3 + 11.2	+ 2.6	+ 11.1	+ 4.1	+ 2.1	+ 0.4	- 1.1	- 0.6	+ 0.7	- 1.3	+ 0.).4
Q3 Q4	+ 29.5 + 18.7	+ 15.3 + 9.7	+ 17.8 + 12.3					+ 0.1							.0
2018 Q1	+ 33.6	l .	l	1	1		+ 4.8	1		1	1	+ 0.3	1	1	.4
	Short-term														
2017 Q1	+ 6.3	ı -	- 0.0) –	- 0.0	+ 7.0	+ 0.0	+ 4.0	+ 0.1	+ 1.0	+ 1.6	+ 0.2	- 0.2	- 0.).7
Q2 Q3	+ 2.1 - 0.1	-	- 0.1 - 0.2 - 0.0	. -	- 0.1 - 0.2										0.4
Q4	- 2.8	_	- 0 - 0.0		- 0.2 - 0.0										1.8
2018 Q1	+ 14.3	l	+ 0.3	1	+ 0.3	+ 14.4	+ 0.3	+ 4.1	+ 0.9	+ 1.3	+ 3.3	+ 0.4	+ 0.1	+ 1.	.7
·	Medium-te														
2017 Q1	+ 0.2	I -	- 0.6	5 -	- 0.6	+ 0.4	- 0.1	- 0.4	- 0.5	+ 0.5	+ 0.7	- 0.1	- 0.4	+ 1.	.1
Q2	+ 3.0	_	- 0.	<u> </u>	- 0.1				+ 0.0			- 0.1			.3
Q3 Q4	+ 2.4 + 3.9	_	+ 0.1		+ 0.2 + 0.1										.3
2018 Q1	+ 2.0	_	+ 0.0	1	+ 0.0		1	1	1	1			1	1).1
	Long-term	- lendina		-											
2017 Q1	+ 15.1		+ 7.5	2 + 5.8	+ 1.4	+ 9.4	+ 2.6	+ 0.7	+ 0.9	+ 0.5	+ 0.9	- 0.2	- 0.5	+ 0.	0.8
Q2	+ 18.2	+ 12.7	+ 14.0) + 11.2	+ 2.9	+ 6.9	+ 4.2	+ 1.0	+ 0.2	- 0.8	+ 0.6	+ 0.5	- 1.5	- 0.).5
Q3 Q4	+ 27.2 + 17.6	+ 15.3 + 9.7	+ 17.8 + 12.6							+ 0.7 + 0.5					.7
2018 Q1	+ 17.4	l	l	1	1		1	1	1	1	l .			1	0.6
•								,	2.5		5			0.	_

^{*} Excluding lending by foreign branches. Breakdown of lending by building and loan associations by areas and sectors estimated. Statistical alterations have been eliminated

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						Lending to e	mployees and	l other individ	uals		Lending to	stitutions	
Services sect	tor (including t	he profession	ns)	Memo item	s			Other lendin			1		1
	of which					1			of which		1		
Total	Housing enterprises	Holding companies	Other real estate activities	Lending to self- employed persons 2	Lending to craft enterprises	Total	Housing loans	Total	Instalment loans 3	Debit balances on wage, salary and pension accounts	Total	<i>of which</i> Housing loans	Period
End of y	ear or qua	rter *									Lenc	ling, total	
680.0 684.0 694.3 700.9 709.0 718.8	206.2 209.8 211.2 214.9	36.3 38.8 39.6 41.1 42.3	179. 183. 185. 186.	7 403.8 6 408.2 7 410.4 4 411.2	46.3 48.5 48.3 47.7	1,154.8 1,167.3 1,182.2 1,192.3	922.9 933.2 945.4 954.3	231.9 234.2 236.7 237.9	165.5 168.0 170.4 171.6	9.2 8.9 8.9 8.6	14.6 14.5 14.6 14.8	3.7 3.8 3.7 3.7	2016 2017 Ma Jun Sep Dec 2018 Ma
												-term lending	
47.9 48.2 50.1 50.2 50.9	8.4 9.0 9.6 10.1	6.6 6.5 6.7 6.8	9. 9. 10. 10.	1 24.5 7 24.5 0 23.3 3 23.3	5.7 5.7 7 5.5 5.0	29.8 29.7 29.4 29.3	3.2 3.1 2.9 2.9	26.7 26.6 26.5 26.4	1.8 1.8 1.7 1.6	9.2 8.9 8.9 8.6	0.6 0.5 0.5 0.5	0.0 0.0 0.0 0.0	2016 2017 Ma Jun Sep Dec
53.5	10.2	7.9	10.	7 23.:	7 5.8	29.0	3.0	26.1	1.5	8.4	-	l – -term lending	2018 Ma
72.1	11.1	8.2	? 19.	32.9	9 3.6	77.3	21.1	56.2	51.0	I -		_	2016
71.1 72.1 72.2 73.5	11.5 11.9 12.1	8.6 8.8 9.1 9.3	18. 18. 18.	6 32.8 3 32.9 3 32.1	3.6 3.6 7 3.6	78.1 78.9 79.9	20.0	57.7 58.6 59.9	51.7 52.9 54.0 55.2	=	0.5 0.5 0.6	0.0 0.0 0.0	2017 Ma Jun Sep Dec
73.9	12.6	9.3	18.	31 32.8	3.4	80.7	19.7	61.0	56.5	-		0.0 term lending	2018 Ma
560.0 564.7 572.2 578.5 584.6 591.3	186.5 189.2 189.8 192.6	23.6 24.3 25.3 26.2	5 152. 3 155. 3 157. 2 157.	7 346.5 3 350.8 4 353.8 8 355.3	37.1 39.2 3 39.3 3 39.2	1,047.9 1,059.4 1,073.8 1,083.1	899.2 909.6 922.3 931.4	148.8 149.9 151.6 151.6	112.1 113.3 114.8 114.8	=	13.3 13.4 13.5 13.6 13.7	3.5 3.7 3.7 3.7 3.7	2016 2017 Ma Jun Sep Dec 2018 Ma
Change	during qu	arter *									Lend	ling, total	
+ 6.8 + 10.5 + 8.9 + 8.5 + 11.0	+ 3.5 + 3.0 + 3.7	+ 0.8 + 1.7 + 1.2	3 + 4. 7 + 2. 2 + 1.	0 + 3.4 7 + 2.2 0 + 0.8	+ 0.1 - 0.1 - 0.6	+ 12.2 + 14.9 + 9.8	+ 12.1 + 8.6	1	+ 2.8 + 2.5 + 1.1	- 0.3 - 0.0 - 0.3	- 0.1 + 0.1 + 0.2	- 0.0 + 0.1 - 0.0 - 0.0 + 0.0	Q2 Q3 Q4
+ 1.0 + 2.2 + 0.1 + 0.7 + 2.6	+ 0.6 + 0.6 + 0.5	- 0.0 + 0.2 + 0.1	+ 0. + 0. + 0.	8 - 0.9 4 - 0.4	- 0.0 - 0.2 1 - 0.5	- 0.1 - 0.3 - 0.2	- 0.2 - 0.1	- 0.0 - 0.1 - 0.1	- 0.1 - 0.1	- 0.3 - 0.0 - 0.3	+ 0.1 - 0.1 - 0.0 + 0.0	- 0.0 + 0.0 - 0.0 + 0.0	Q2 Q3 Q4
=			. 1									-term lending	2015
- 0.5 + 1.0 + 0.1 + 1.4 + 0.8	+ 0.2 + 0.3 + 0.3	+ 0.1 + 0.3 + 0.2	+ 0. - 0. - 0.	8 + 0.3	+ 0.0 - 0.0 + 0.0	+ 1.1 + 0.9 + 1.0	- 0.1 - 0.1 - 0.2	+ 1.2 + 1.0 + 1.2	+ 1.3 + 1.0 + 1.2	-	- 0.0	+ 0.0 + 0.0 - 0.0 + 0.0	Q2 Q3 Q4
+ 6.2	+ 1.2	+ 1.1	+ 2.	0 + 1.8	3 - 0.2	+ 5.8	+ 4.6	+ 1.2	+ 1.6	ı	Long – 0.0	term lending – 0.0	2017 Q1
+ 6.2 + 7.4 + 8.6 + 6.5 + 7.7	+ 2.7 + 2.0 + 2.9	+ 0.7 + 1.2 + 0.9	+ 2. + 2. + 0.	4 + 3.3 7 + 3.0	3 + 0.0 + 0.1 - 0.1	+ 11.3 + 14.3 + 8.9	+ 9.8 + 12.4 + 8.9	+ 1.4 + 1.9 - 0.0	+ 1.6 + 1.6 - 0.1	=		+ 0.0 - 0.0 - 0.0	Q2 Q3

are not specially marked. 1 Excluding fiduciary loans. 2 Including sole proprietors. 3 Excluding mortgage loans and housing loans, even in the form of instalment credit.

7 Deposits of domestic non-banks (non-MFIs) at banks (MFIs) in Germany*

€ billion

	€ DIIIION											
			Time deposit	ts 1,2						Memo item		
				for up	for more tha	n 1 year 2 for up to and	for more		Bank		Subordinated liabilities (excluding negotiable	Liabilities
D : 1	Deposits,	Sight		including		including	than	Savings	savings	Fiduciary	debt	arising
Period	total	deposits	Total	1 year	Total	2 years	2 years	deposits 3	bonds 4	loans	securities)	from repos
	Domestic	c non-bank	cs, total								End of yea	r or month*
2015 2016 2017	3,224.7 3,326.7 3,420.9	1,798.2	889.6	232.4	655.4 657.3 645.6	47.2	610.1	596.5 588.5 582.9	56.1 50.4 43.7		20.5 18.3 16.3	0.5 0.9 1.6
2017 June	3,370.3	1	869.8		643.4	1		584.7	46.6	29.8	16.9	0.9
July	3,361.5		866.0		642.8		588.6	583.5	46.0	29.9	16.7	0.7
Aug Sep	3,376.5 3,380.7		864.4 861.9		644.4 643.2		589.2 587.9	582.4 581.8	45.4 45.3	30.0 30.0	16.7 15.8	0.7 1.8
Oct	3,396.5				640.7	54.5		581.5	44.8	29.9	15.7	1.1
Nov Dec	3,426.8 3,420.9		857.5 853.2		645.0 645.6			581.0 582.9	44.3 43.7	30.1 30.0	15.1 16.3	1.6 1.6
2018 Jan	3,428.9		854.1		642.6			582.4	42.9	30.4	16.1	1.4
Feb Mar	3,425.8 3,421.8		851.6 850.7		641.8 637.8			582.2 581.3	42.3 41.8	30.9 31.5	15.9 15.8	1.1 0.6
Apr	3,439.5	1,971.4	846.3	210.7	635.6	50.7	584.9	580.5	41.3	31.9	15.1	0.9
May	3,471.4	2,002.6	847.7	210.8	636.9	51.9	585.0	580.2	40.9	32.4	14.8	0.7
												Changes*
2016 2017	+ 104.7 + 103.1				+ 2.0 - 2.8		- 8.2 - 12.8	- 7.9 - 5.6		- 0.5 + 0.4	- 2.1 - 2.0	+ 0.3 + 0.8
2017 2017 June	+ 103.1	1	- 4.6		- 1.7	1		- 1.0	- 0.4	- 0.4	- 0.1	+ 0.4
July	- 8.8	1	- 3.8	1	- 0.6	1	- 1.3	- 1.2	- 0.7	+ 0.2	- 0.2	- 0.1
Aug Sep	+ 15.0		- 1.6 - 2.5		+ 1.6 - 1.2		+ 0.6	- 1.1 - 0.6	- 0.6 - 0.1	+ 0.1 - 0.1	- 0.1 - 0.9	- 0.0 + 1.1
Oct	+ 15.7	1	- 8.5		- 2.5	1	1	- 0.3	- 0.5	- 0.0	- 0.1	- 0.6
Nov Dec	+ 30.3 - 5.9	+ 27.2	+ 4.0	0.3	+ 4.2	+ 0.8	+ 3.4	- 0.5 + 1.9	- 0.5 - 0.6	+ 0.1	- 0.6 + 1.2	+ 0.4
2018 Jan	+ 7.6	1	+ 0.9	1	+ 0.6	1	1	- 0.4	- 0.8	+ 0.4	- 0.2	+ 0.0 - 0.2
Feb	- 3.1	+ 0.3	- 2.5	5 – 1.7	- 0.8 - 3.9	- 1.4	+ 0.5	- 0.3 - 0.9	- 0.6 - 0.5	+ 0.5	- 0.2	- 0.3
Mar Apr	- 4.0 + 18.6	1			- 3.9	1	1	- 0.9	- 0.5	+ 0.5 + 0.4	- 0.2 - 0.6	- 0.5 + 0.2
May	+ 31.9											
	Domestic	governm	ent								End of yea	r or month*
2015	197.4	57.6	132.6	5 87.7	44.9	10.2	34.7	3.7	3.5	27.9	2.7	0.5
2016 2017	199.8 201.7	57.9		79.5	54.0 69.0	16.6	37.4	3.9 3.6	4.5 4.4		2.5 2.3	_
2017 2017 June	209.9	1	143.5		61.8	1		3.7	4.7	25.7	2.4	_
July	207.2	1	1		62.8	1		3.7	4.7	25.8	2.4	_
Aug Sep	213.6 210.5		144.2 143.4		64.3 66.0		40.8 41.9	3.7 3.7	4.5 4.5	25.9 25.9	2.5 2.3	_
Oct	207.6	1	1	1	67.0	24.4	42.6	3.7	4.4	25.8	2.3	0.0
Nov Dec	211.1 201.7		142.2 134.7		69.9 69.0			3.6 3.6	4.2 4.4	25.8 25.7	2.3 2.3	0.0
2018 Jan	202.1	1	1	1	69.4	1	1	3.7	4.4	26.1	2.4	_
Feb Mar	204.3 205.9	58.8	137.5	68.7	68.7 68.4	26.2	42.5	3.7 3.7	4.4 4.4	26.1	2.4 2.3	-
Apr	205.1	1	1		1	1		3.7	1	1	1	_
May	215.9	62.8	145.0	72.3	70.3	25.1	45.2	3.8	4.3	26.0	2.2	-
												Changes*
2016	+ 3.1							+ 0.1	+ 0.7			
2017 2017 June	- 1.0 - 0.1	1	1		+ 11.7 + 1.5	1		- 0.3 - 0.0	+ 0.1 + 0.0		- 0.3 - 0.0	± 0.0
July	- 2.8	1	- 0.4		+ 0.9	1	+ 0.4	- 0.0	+ 0.0	- 0.4	+ 0.0	_
Aug	+ 6.4	+ 5.6	+ 0.9	0.5	+ 1.4	+ 1.1	+ 0.3	+ 0.1	- 0.2	+ 0.1	+ 0.0	-
Sep Oct	- 3.8 - 3.5	1	- 1.5 - 4.5	1	+ 1.2 + 0.4	1	+ 0.6 + 0.2	+ 0.0	+ 0.0	- 0.0 - 0.1	- 0.2 - 0.0	+ 0.0
Nov	+ 4.1	+ 1.6	+ 2.6	0.2	+ 2.9	+ 1.5	+ 1.4	- 0.1	- 0.0	+ 0.0	- 0.0	-
Dec 2018 Jan	- 11.1 + 0.4	1	- 9.2 + 4.3		- 2.7 + 0.5	1	- 4.3 + 0.8	+ 0.1 + 0.0	+ 0.2	- 0.2 + 0.4	- 0.0 + 0.0	- 0.0
Feb	+ 2.2	+ 3.8	- 1.5	0.9	- 0.7	- 0.8	+ 0.1	- 0.0	- 0.0	+ 0.0	- 0.0	-
Mar Apr	+ 1.6	1	1		- 0.3 - 0.5	1		+ 0.0	1		- 0.1 - 0.0] [
May	+ 10.8											-

^{*} See Table IV.2, footnote *; statistical breaks have been eliminated from the changes. The figures for the latest date are always to be regarded as provisional. Subsequent revisions, which appear in the following Monthly Report, are not

IV Banks

7 Deposits of domestic non-banks (non-MFIs) at banks (MFIs) in Germany * (cont'd)

	lion

	€ billion											
			Time deposit	S 1,2						Memo item		
					for more that	n 1 year 2					Subordinated	
				for up		for up		1			liabilities (excluding	
				for up to and		to and	for more		Bank		negotiable	Liabilities
Period	Deposits, total	Sight deposits	Total	including 1 year	Total	including 2 years	than 2 years	Savings deposits 3	savings bonds 4	Fiduciary loans	debt securities)	arising from repos
renou					Total	2 years	12 years	асрозиз -	DOTIGS -	Todiis		
	Domestic	enterprise	es and no	usenoias							End of year	or month
2015 2016	3,027.3 3,127.0	1,616.1 1,740.3	765.8 756.2	155.3 152.8	610.5 603.3	27.1		592.7 584.6	52.6 45.9	1.4	17.8 15.8	0.9
2017	3,127.0	1,882.1	718.5		576.6			579.3	39.3	4.3		
2017 June	3,160.3	1,811.1	726.2	144.6	581.6	31.7	549.9	581.0	41.9	3.9	14.5	0.9
July	3,154.3	1,810.5	722.7		580.0	31.8		579.8	41.3	4.1	14.3	0.7
Aug Sep	3,162.8 3,170.2	1,823.0 1,832.9	720.2 718.5		580.1 577.2	31.8 31.2		578.7 578.1	40.9 40.8	4.1 4.1	14.2 13.5	0.7
Oct	3,188.8	1,856.9	713.8		573.7	30.1	543.5	577.8	40.3	4.1	13.4	
Nov Dec	3,215.7 3,219.2	1,882.9 1,882.1	715.3 718.5		575.2 576.6	29.5 29.9	545.6 546.8	577.5 579.3	40.1 39.3	4.3 4.3		
2018 Jan	3,226.8	1,894.3	715.1	142.0	573.2	28.7	544.5	578.8	38.6	4.4	1	
Feb	3,221.5	1,890.8	714.2	141.1	573.0	28.2	544.9	578.5	38.0	4.9	13.6	1.1
Mar Apr	3,215.8 3,234.4	1,890.8 1,914.4	710.1 706.1		569.4 567.7	27.4 26.9		577.6 576.8	37.4 37.0	5.5 5.9	1	
May	3,255.5											
												Changes*
2016	+ 101.7	+ 124.2	- 8.9	- 2.2	- 6.7	+ 3.8	- 10.5	- 8.0	- 5.7	+ 0.3	- 1.9	
2017	+ 104.1	+ 141.3	- 25.1		- 14.4		- 13.8	- 5.3	- 6.7	+ 1.6		+ 0.8
2017 June	+ 11.0	+ 19.9	- 7.5		- 3.3	1	- 3.1	- 1.0	- 0.4	- 0.2	1	+ 0.4
July Aug	- 5.9 + 8.6	- 0.7 + 12.6	- 3.4 - 2.5		- 1.5 + 0.2	+ 0.1	- 1.6 + 0.2	- 1.2 - 1.1	- 0.7 - 0.3	+ 0.2 + 0.0		- 0.1 - 0.0
Sep	+ 8.1	+ 9.9	- 1.0		- 2.4			- 0.6	- 0.2	- 0.0		+ 1.1
Oct	+ 19.2	+ 23.9	- 4.0		- 3.0	- 1.0	- 2.0	- 0.2	- 0.4	+ 0.0		- 0.7
Nov Dec	+ 26.2 + 5.2	+ 25.6 - 0.9	+ 1.4 + 5.0		+ 1.4 + 3.3	- 0.6 + 0.4	+ 2.0 + 2.9	- 0.4 + 1.8	- 0.4 - 0.7	+ 0.1 + 0.1	- 0.6 + 1.3	
2018 Jan	+ 7.2	+ 11.8	- 3.4		- 3.5	- 0.9	- 2.6	- 0.5	- 0.8	+ 0.0		
Feb Mar	- 5.3 - 5.6	- 3.5 - 0.1	- 1.0 - 4.1		- 0.2 - 3.6	- 0.6 - 0.8	+ 0.4 - 2.8	- 0.2 - 1.0	- 0.6 - 0.5	+ 0.5 + 0.6		- 0.3 - 0.5
Apr	+ 19.4	+ 23.7	- 3.0		- 1.7	- 0.5		- 0.8	- 0.5	+ 0.4	1	
May	+ 21.1				- 1.1	- 0.0						
	of which:	Domesti	c enterpri	ses							End of year	or month*
2015	1,029.8		•		406.7	14.4	392.3	7.1	13.3	1.3	-	
2016	1,032.4	518.3	494.1	98.3	395.8	17.4	378.4	6.9	13.2	1.6	13.0	0.9
2017	1,039.6	558.9	461.0		368.2	17.2		6.8	12.8	2.7	1	
2017 June	1,032.3 1,022.6	545.0	467.6		374.7 373.9	18.8		6.8	12.9	2.8	1	
July Aug	1,022.6	537.7 543.9	465.4 463.2	89.1	373.9	19.1 19.2	354.8 354.8	6.8 6.8	12.8 12.7	2.8 2.8	11.7	0.7
Sep	1,028.0	546.3	462.0		371.1	18.7	352.4	6.9	12.9	2.8	1	1.8
Oct Nov	1,038.4 1,047.0	561.0 567.1	457.7 459.8		367.7 369.3	17.8 17.3	349.8 352.0	6.9 6.9	12.9 13.1	2.8 2.9		
Dec	1,039.6	558.9	461.0		368.2	17.2		6.8	12.8	2.7	11.6	
2018 Jan Feb	1,051.4 1,036.8	573.9 560.8	458.0 456.5		364.4 364.0	16.0 15.5		6.9 7.0	12.6 12.5	2.6 2.7		1.4
Mar	1,026.9				360.5					2.8		
Apr	1,034.1	566.2	448.6		359.0			7.1	12.3	2.9	10.5	
May	1,042.4	578.3	444.6	87.0	357.7	14.6	343.0	7.2	12.3	2.9	10.2	·
												Changes*
2016 2017	+ 4.6 + 19.5				- 10.1 - 15.4					+ 0.2 + 0.8		
2017 2017 June	+ 8.3	+ 14.0	- 5.7	1	- 2.8	- 0.0		+ 0.0	- 0.0	- 0.2	1	+ 0.4
July	9.7	- 7.4	- 2.2		- 0.7	+ 0.4	- 1.1	- 0.0	- 0.1	_	- 0.2	
Aug	+ 4.2	+ 6.2	- 2.0	- 2.4	+ 0.3	+ 0.1	+ 0.2	+ 0.1	- 0.1	- 0.0 - 0.0	- 0.0	- 0.0
Sep Oct	+ 2.1 + 11.0	+ 2.4 + 14.7	- 0.6 - 3.7		- 2.6 - 2.9	- 0.5 - 0.8	- 2.1 - 2.0	+ 0.1	+ 0.2	- 0.0	- 0.7 - 0.1	+ 1.1
Nov	+ 7.9	+ 5.7	+ 2.1	+ 0.5	+ 1.5	- 0.5	+ 2.1	+ 0.1	+ 0.1	+ 0.1	- 0.5	+ 0.4
Dec	- 5.7	- 8.2	+ 3.0		+ 0.7	- 0.1	+ 0.7	- 0.1	- 0.3	- 0.2	1	+ 0.1
2018 Jan Feb	+ 11.5 - 14.5	+ 14.6 - 13.0	- 3.0 - 1.5		- 3.8 - 0.3		- 2.9 + 0.2	+ 0.1 + 0.1	- 0.2 - 0.1	- 0.1 + 0.1	- 0.2 - 0.2	
Mar	- 9.9	- 5.9	- 4.0	- 0.4	- 3.6	- 0.6	- 3.0	+ 0.0	- 0.1	+ 0.2	1	- 0.5
Apr May	+ 8.1 + 8.3	+ 11.2 + 12.1			- 1.4 - 1.3			+ 0.1 + 0.1	- 0.1 + 0.0	+ 0.0 + 0.0		
,			. 5.5	/							. 3.5	. 0.21

Table IV.12). **3** Excluding deposits under savings and loan contracts (see also footnote 2). **4** Including liabilities arising from non-negotiable bearer debt securities.

8 Deposits of domestic households and non-profit institutions at banks (MFIs) in Germany*

	€ billion											
		Sight deposits						Time deposits	1,2			
			by creditor gr	oup					by creditor gr	oup		
	Deposits of		Domestic hou	seholds]	Domestic hou	seholds		
Period	domestic households and non-profit institutions, total	Total	Total	Self- employed persons	Employees	Other individuals	Domestic non-profit institu- tions	Total	Total	Self- employed persons	Employees	Other individuals
										End	d of year o	r month*
2015 2016 2017	1,997.5 2,094.5 2,179.7	1,113.3 1,222.0 1,323.1	1,081.2 1,186.9 1,286.6	188.9 206.0 223.4	748.6 828.6 907.6	143.7 152.3 155.7	32.1 35.1 36.5	262.1	246.2 248.6 243.5	25.0	179.8 182.0 182.9	41.6 41.5 37.1
2017 Dec	2,179.7	1,323.1	1,286.6	223.4	907.6	155.7	36.5	257.5	243.5	23.4	182.9	37.1
2018 Jan Feb Mar	2,175.4 2,184.7 2,189.0	1,320.4 1,330.0 1,335.8	1,284.1 1,293.1 1,298.8	226.0 226.1 223.3	903.3 911.8 920.1	154.8 155.2 155.4	36.3 36.9 37.0	257.7	243.3 243.8 243.7	22.9 22.7 22.1	183.3 183.9 184.3	37.1 37.3 37.2
Apr May	2,200.2 2,213.1	1,348.3 1,361.5	1,310.8 1,323.2	228.2 231.2	926.6 935.5	156.0 156.5	37.5 38.3		243.7 244.3	21.8 21.7	184.7 185.3	37.3 37.2
												Changes*
2016 2017	+ 97.1 + 84.7	+ 108.4 + 101.1	+ 105.3 + 99.8	+ 17.5 + 17.5	+ 78.7 + 77.8	+ 9.0 + 4.5	+ 3.0 + 1.3			+ 0.1 - 1.8	+ 1.9 - 2.1	- 0.3 - 1.3
2017 Dec	+ 10.9	+ 7.4	+ 6.3	+ 0.5	+ 5.2	+ 0.6	+ 1.0	+ 2.1	+ 2.1	+ 0.0	+ 1.5	+ 0.5
2018 Jan Feb Mar	- 4.3 + 9.3 + 4.3	- 2.7 + 9.6 + 5.8	- 2.6 + 9.0 + 5.7	+ 2.6 + 0.1 - 2.8	- 4.2 + 8.5 + 8.3	- 0.9 + 0.4 + 0.2	- 0.2 + 0.6 + 0.1	- 0.4 + 0.5 - 0.1		- 0.5 - 0.3 - 0.6	+ 0.4 + 0.5 + 0.6	
Apr May	+ 11.3 + 12.8	+ 12.5 + 13.2	+ 12.0 + 12.4	+ 5.0 + 3.0	+ 6.4 + 8.8	+ 0.6 + 0.5	+ 0.5 + 0.8				+ 0.3 + 0.6	+ 0.0 - 0.0

^{12.4} * See Table IV.2, footnote*; statistical breaks have been eliminated from the changes. The figures for the latest date are always to be regarded as provisional. Subsequent

revisions, which appear in the following Monthly Report, are not specially marked. 1 Including subordinated liabilities and liabilities arising from registered debt

9 Deposits of domestic government at banks (MFIs) in Germany, by creditor group*

	€ billion												
	Deposits												
		Federal Gove	ernment and i	ts special fund	_{ds} 1			State govern	ments				
				Time deposit	S					Time deposit	:S		
Period	Domestic government, total	Total	Sight deposits	for up to and including 1 year	for more than 1 year	Savings deposits and bank savings bonds 2	<i>Memo</i> <i>item</i> Fiduciary loans	Total	Sight deposits	for up to and including 1 year	for more than 1 year		Memo item Fiduciary loans
											End	of year o	r month*
2015 2016 2017	197.4 199.8 201.7	9.6 7.9 8.7	3.1 3.6 4.3	3.9 2.0 1.5	2.6 2.2 2.8	0.1 0.1 0.1	14.1 13.5 12.9	44.3 42.3 37.5	13.2 13.4 11.9	13.7 11.2 9.9	16.5 16.6 14.5	0.9 1.1 1.3	13.5 13.2 12.7
2017 Dec	201.7	8.7	4.3	1.5	2.8	0.1	12.9	37.5	11.9	9.9	14.5	1.3	12.7
2018 Jan Feb Mar	202.1 204.3 205.9	8.9 8.8 8.3	4.6 4.4 4.1	1.2 1.4 1.3	2.9 2.9 2.8	0.1 0.1 0.1	12.9 12.9 12.9	40.1 40.3 45.6	10.3 10.3 11.3	13.9 14.2 18.8	14.6 14.6 14.2	1.3 1.3 1.2	13.1 13.1 13.1
Apr May	205.1 215.9	8.4 8.8	4.1 4.5	1.4 1.4	2.7 2.8	0.1 0.1	13.0 12.9	45.0 45.7	11.2 10.8	18.1 19.3	14.4 14.4	1.2 1.2	13.0 13.0
												(Changes*
2016 2017	+ 3.1 - 1.0	- 1.2 - 0.0	+ 0.5 + 0.7	- 1.4 - 1.0	- 0.3 + 0.2	+ 0.0 - 0.0	- 0.5 - 0.6	- 1.8 - 5.1	+ 0.1 - 1.4	- 1.8 - 1.4	- 0.3 - 2.5	+ 0.1 + 0.2	- 0.3 - 0.5
2017 Dec	- 11.1	+ 0.3	+ 0.1	+ 0.1	+ 0.1	+ 0.0	- 0.3	- 7.5	- 0.1	- 4.0	- 3.4	+ 0.1	+ 0.1
2018 Jan Feb Mar	+ 0.4 + 2.2 + 1.6	+ 0.2 - 0.1 - 0.4	+ 0.3 - 0.2 - 0.3	- 0.2 + 0.2 - 0.1	+ 0.0 + 0.0 - 0.1	+ 0.0 - 0.0 - 0.0	- 0.0 + 0.0 - 0.0	+ 2.6 + 0.2 + 5.1	- 1.6 + 0.0 + 1.0	+ 4.0 + 0.3 + 4.6	+ 0.1 + 0.0 - 0.4	+ 0.0 - 0.1 - 0.0	+ 0.4 - 0.0 - 0.0
Apr May	- 0.8 + 10.8	+ 0.1 + 0.3	+ 0.0 + 0.4	+ 0.1 - 0.0	- 0.0 + 0.0	- 0.0 -	+ 0.1 - 0.0	- 0.7 + 0.7	- 0.1 - 0.5	- 0.7 + 1.2	+ 0.1 - 0.0	- 0.0 - 0.0	- 0.1 + 0.0

^{*} See Table IV.2, footnote *; excluding deposits of the Treuhand agency and its successor organisations, of the Federal Railways, east German Railways and Federal Post Office, and, from 1995, of Deutsche Bahn AG, Deutsche Post AG and Deutsche

Telekom AG, and of publicly owned enterprises, which are included in "Enterprises" Statistical breaks have been eliminated from the changes. The figures for the latest date are always to be regarded as provisional. Subsequent revisions, which appear in

					Savings depo	sits 3			Memo item			
	by maturity											
		more than 1	year 2							Subordinated		
			of which							liabilities		
Domestic non-profit institu- tions	up to and including 1 year	Total	up to and including 2 years	more than 2 years	Total	Domestic households	Domestic non-profit institu- tions	Bank savings bonds 4	Fiduciary loans	(excluding negotiable debt securities) 5	Liabilities arising from repos	Period
End of ye	ear or mon	th*					-					
13.1 13.5 14.0	54.5	207.5	13.3	191.1 194.3 195.8	585.6 577.7 572.4	576.6 569.3 564.6	9.0 8.4 7.9	39.2 32.7 26.6	0.0 0.1 1.7	3.8 2.9 2.4	- - -	2015 2016 2017
14.0	49.0	208.5	12.7	195.8	572.4	564.6	7.9	26.6	1.7	2.4	-	2017 Dec
13.8 13.8 13.9	48.7	208.8 209.0 209.0	12.7	196.1 196.3 196.5	571.9 571.5 570.5	564.0 563.8 562.8	7.7	26.0 25.5 25.1	1.8 2.2 2.6	2.4 2.4 2.4	- - -	2018 Jan Feb Mar
13.9 13.8				196.4 196.7	569.7 569.2	562.0 561.5		24.7 24.3	3.0 3.5	2.4 2.4	- -	Apr May
Changes'	*											
+ 0.6 + 0.1			+ 0.7 - 0.5	+ 2.7 + 1.4	- 7.9 - 5.3	- 7.3 - 4.7	- 0.5 - 0.6	- 5.8 - 6.1	+ 0.1 + 0.8	- 0.9 - 0.4		2016 2017
- 0.0	- 0.5	+ 2.6	+ 0.5	+ 2.1	+ 1.9	+ 1.8	+ 0.1	- 0.4	+ 0.3	- 0.0	-	2017 Dec
- 0.2 + 0.0 + 0.0	+ 0.3	+ 0.3 + 0.2 - 0.0	- 0.0	+ 0.3 + 0.2 + 0.2	- 0.5 - 0.4 - 1.0	- 0.5 - 0.2 - 1.0	- 0.0 - 0.1 + 0.0	- 0.6 - 0.5 - 0.4	+ 0.1 + 0.4 + 0.4	- 0.0 - 0.0 + 0.0	- - -	2018 Jan Feb Mar
+ 0.0 - 0.0		- 0.3 + 0.2		- 0.1 + 0.3	- 0.8 - 0.5	- 0.8 - 0.5	- 0.0 - 0.0	- 0.4 - 0.4	+ 0.4 + 0.5	- 0.0 + 0.0	_ _	Apr May

securities. **2** Including deposits under savings and loan contracts (see Table IV.12). **3** Excluding deposits under savings and loan contracts (see also foot-note

2). **4** Including liabilities arising from non-negotiable bearer debt securities. **5** Included in time deposits.

	nment and local nunicipal special					Social security	y funds					
	T	Time deposit						Time deposits	;			
Total	Sight deposits	for up to and including 1 year	for more than 1 year	Savings deposits and bank savings bonds 2,4	Memo item Fiduciary loans	Total	Sight deposits	for up to and including 1 year	for more than 1 year	Savings deposits and bank savings bonds 2	Memo item Fiduciary loans	Period
End of y	ear or mon	ıth*										
52.4 56.0 61.0	31.5	8.7	8.3 10.1 14.1	5.2 5.7 5.5	0.4 0.4 0.0	91.2 93.6 93.8		60.5 57.6 45.6	17.5 25.1 37.6	1.1 1.5 1.1	- -	2015 2016 2017
61.6	6 33.2	8.8	14.1	5.5	0.0	93.8	9.5	45.6	37.6	1.1	_	2017 Dec
54.0 57.4 55.4	4 29.6	8.3	14.0 14.1 14.2	5.5 5.5 5.6	0.0 0.0 0.0	99.2 97.8 96.6	14.0 14.6 14.2	46.1 44.8 44.1	38.0 37.2 37.2	1.1 1.2 1.1	- - -	2018 Jan Feb Mar
55.4 61.0			14.3 14.6	5.6 5.6	0.0 0.0	96.3 100.4	13.6 14.9	45.0 45.8	36.5 38.6	1.1 1.1	- -	Apr May
Changes	*											
+ 3.1 + 4.5		- 0.8 + 0.1	+ 1.6 + 2.3	+ 0.5 - 0.0	- 0.0 - 0.0	+ 2.4 - 0.3	- 2.6 + 0.2	- 2.8 - 11.8	+ 7.7 +11.6	+ 0.2 - 0.4		2016 2017
+ 3.2	2 + 3.3	- 0.3	+ 0.1	+ 0.1	+ 0.0	- 7.1	- 5.4	- 2.3	+ 0.6	+ 0.0	-	2017 Dec
- 7.6 + 3.5 - 2.0	5 + 3.4		- 0.1 + 0.1 + 0.2	- 0.0 - 0.0 + 0.1	- 0.0 - 0.0 -	+ 5.3 - 1.4 - 1.1	+ 4.5 + 0.6 - 0.4	+ 0.5 - 1.3 - 0.7	+ 0.4 - 0.8 - 0.0	- 0.0 + 0.1 - 0.0	_	2018 Jan Feb Mar
+ 0.1 + 5.1		- 0.3 + 0.5	+ 0.1 + 0.2	+ 0.0 + 0.1	_	- 0.4 + 4.2	- 0.6 + 1.3	+ 0.9 + 0.7	- 0.7 + 2.1	- 0.0 - 0.0	_	Apr May

the following Monthly Report, are not specially marked. 1 Federal Railways Fund, Indemnification Fund, Redemption Fund for Inherited Liabilities, ERP Special Fund, German Unity Fund, Equalisation of Burdens Fund. 2 Including liabilities arising from

non-negotiable bearer debt securities. **3** Including deposits under savings and loan contracts. **4** Excluding deposits under savings and loan contracts (see also footnote 3).

10 Savings deposits and bank savings bonds of banks (MFIs) in Germany sold to non-banks (non-MFIs)*

	C DIIIIOII												
	Savings depos	sits 1								Bank savings	bonds 3, solo	l to	
		of residents					of non-resid	dents			domestic non	-banks	
			at three mor notice		at more thar months' not				Memo item			of which	
				of which Special Savings facilities 2 Total Sof which Special Savings facilities 2 Total Special Savings Facilities 2			of which At three months'	Interest credited on savings	non-banks,		With maturities of more than	foreign	
Period	Total	Total	Total	facilities 2	Total	facilities 2	Total	notice	deposits	total	Total	2 years	non-banks
	End of ye	ar or mon	th*										
2015 2016 2017	605.4 596.5 590.3	596.5 588.5 582.9	534.6 537.1 541.0	379.7 361.6 348.3	61.9 51.5 41.9	48.0 37.7 30.3	8.9 8.0 7.4	7.4 6.9 6.5	4.4 3.3 2.7	64.9 59.1 52.0	56.1 50.4 43.7	41.0 35.8 31.4	8.7 8.7 8.2
2018 Jan Feb Mar	589.9 589.6 588.6	582.4 582.2 581.3	539.8 540.5 540.0	346.2 343.9 342.7	42.7 41.7 41.3	31.2 30.7 30.3	7.4 7.4 7.3	6.5 6.5 6.4	0.2 0.1 0.1	49.4 47.2 46.7	42.9 42.3 41.8	30.9 30.5 30.3	6.5 4.9 4.9
Apr May	587.7 587.4	580.5 580.2	539.7 539.6	341.4 340.6	40.8 40.6	29.8 29.5	7.3 7.2	6.4 6.4	0.1 0.1	46.2 44.8	41.3 40.9	30.0 29.9	4.9 3.9
	Changes*												
2016 2017	- 8.8 - 6.2	- 7.9 - 5.6	+ 2.5 + 1.5	- 18.4 - 13.1	- 10.4 - 7.1	- 10.3 - 7.4	- 0.9 - 0.6	- 0.5 - 0.4		- 5.0 - 7.2	- 5.0 - 6.7	- 4.7 - 4.4	- 0.0 - 0.5
2018 Jan Feb Mar	- 0.5 - 0.3 - 1.0	- 0.4 - 0.3 - 0.9	+ 0.2 + 0.4 - 0.5	- 2.1 - 2.3 - 1.3	- 0.7 - 0.6 - 0.4	+ 0.9 - 0.5 - 0.4	- 0.0 - 0.0 - 0.0	- 0.0 - 0.0 - 0.0	· .	- 0.9 - 2.2 - 0.5	- 0.8 - 0.6 - 0.5	- 0.5 - 0.4 - 0.2	- 0.1 - 1.6 - 0.0
Apr May	- 0.8 - 0.4	- 0.8 - 0.3	- 0.3 - 0.1	- 1.3 - 0.8	- 0.5 - 0.2	- 0.5 - 0.3	- 0.0 - 0.0	- 0.0 - 0.0		- 0.5 - 1.4	- 0.5 - 0.5	- 0.3 - 0.1	+ 0.0 - 0.9

^{*} See Table IV.2, footnote*; statistical breaks have been eliminated from the changes. The figures for the latest date are always to be regarded as provisional. Subsequent revisions, which appear in the following Monthly Report, are not specially marked. 1 Excluding deposits under savings and loan contracts, which are classified

as time deposits. 2 Savings deposits bearing interest at a rate which exceeds the minimum or basic rate of interest. 3 Including liabilities arising from non-negotiable bearer debt securities.

11 Debt securities and money market paper outstanding of banks (MFIs) in Germany*

€ billion

	Cultural														
	Negotiable	bearer debt	securities an	d money ma	arket paper						Non-negot				
		of which									bearer deb securities a	and			
						with matur	ities of				money ma paper 6	rket	Subordinate	d	
						up to and includi	ng 1 year	more than and includ	1 year up to ing 2 years			of which			
		Floating rate	Zero coupon	Foreign currency	Certifi- cates of	of which without a nominal Total quarantee 5			of which without a nominal	more than		with maturities of more than	negotiable debt	non- negotiable debt	
Period	Total	bonds 1			deposit	Total	guarantee 5	Total	2 years	securities	securities				
Period	End of y	year or month*													
2015 2016 2017	1,075.7 1,098.1 1,066.5	177.0	28.1	384.1 407.1 370.4	88.7 90.9 89.8	109.8 111.3 107.4	2.1 4.1 4.1	28.4 37.4 32.9		937.5 949.4 926.2	0.3 0.6 0.4	0.2	31.9 33.8 30.5		
2018 Jan Feb Mar	1,060.2 1,076.8 1,081.8	143.7	24.4 26.1 25.8	355.1 371.5 367.5	76.5 86.2 83.6	92.3 104.0 100.6	4.2 4.4 4.3	31.2 33.2 32.6	6.8 7.3 7.1	936.7 939.6 948.6	0.4 0.3 0.3	0.2	30.5 30.6 30.2	0.5 0.5 0.5	
Apr May	1,085.5 1,103.2			363.9 376.1	87.1 89.7	103.0 107.7	4.4 4.4	31.0 31.3			0.3 0.3			0.5 0.4	
	Changes	*													
2016 2017	+ 22.1 - 30.8		- 2.1 - 2.1	+ 23.0 - 36.7	+ 2.2 - 0.5	+ 1.6 - 3.9					+ 0.3 - 0.2			- 0.0 - 0.0	
2018 Jan Feb Mar	- 6.3 + 16.6 + 5.0	+ 0.0	+ 1.7	- 15.2 + 16.3 - 4.0	- 13.3 + 9.7 - 2.6	- 15.1 + 11.6 - 3.3	+ 0.2 + 0.2 - 0.1	- 1.7 + 2.0 - 0.6		+ 10.4 + 2.9 + 9.0	+ 0.0 - 0.0 - 0.0	- 0.0	+ 0.1	- 0.0 - -	
Apr May	+ 4.2 + 17.6			- 3.5 + 12.2	+ 3.5 + 2.5	+ 2.4 + 4.7	+ 0.1 - 0.0	- 1.3 + 0.3			+ 0.0 + 0.0			- 0.0 - 0.0	

^{*} See Table IV.2, footnote*; statistical breaks have been eliminated from the changes. The figures for the latest date are always to be regarded as provisional. Subsequent revisions, which appear in the following Monthly Report, are not specially marked. 1 Including debt securities denominated in foreign currencies. 2 Issue value when floated. 3 Including floating rate notes and zero

coupon bonds denominated in foreign currencies. 4 Bonds denominated in non-euro-area currencies. **5** Negotiable bearer debt securities respectively money market paper with a nominal guarantee of less than 100%. **6** Non-negotiable bearer debt securities are classified among bank savings bonds (see also Table IV.10, footnote 2).

12 Building and loan associations (MFIs) in Germany *) Interim statements

€ billion

		Lending to banks (MFIs)				Lending to	non-banks	(non-MFIs)	Deposits o	f banks	Deposits o				
			Credit bal-			Building lo	ans		Secur-	(MFIs) 5		banks (nor	n-MHIS)			Memo
End of year/month	Num- ber of associ- ations	Balance sheet total 13	ances and loans (ex- cluding building loans) 1	Building loans 2	Bank debt secur- ities 3	Loans under savings and loan con- tracts	Interim and bridging loans	Other building loans	ities (in- cluding Treasury bills and Treasury discount paper) 4	Deposits under savings and loan con- tracts	Sight and time deposits	Deposits under savings and loan con- tracts	Sight and time de- posits 6	ities	Capital (includ- ing pub- lished re- serves) 7	item New con- tracts entered into in year or month 8
	All b	uilding	and loa	ın assoc	ciations											
2016	20			0.0	16.6	13.8	98.6			2.5		163.8	5.5	2.0	10.2	89.2
2017	20	229.2	41.8	0.0	15.8	12.3	104.4	24.8	25.1	2.6	23.0	168.6	9.5	3.0	11.0	83.6
2018 Mar	20	232.0	42.5	0.0	16.2	12.1	105.7	25.3	25.4	2.6	24.3	170.0	9.4	3.1	11.6	7.2
Apr	20		42.3	0.0	16.2	12.1	106.0	25.4	25.5	2.6	24.5	170.1	9.2	3.1	11.6	6.9
May	20	232.6	42.3	0.0	16.2	12.1	106.3	25.5	25.5	2.6	24.3	170.6	9.2	3.1	11.6	7.3
	Privat	te build	ing and	loan a	associati	ons										
2018 Mar	12	162.3	26.6	-	7.1	9.1	82.0	22.0	11.6	1.7	22.0	110.7	9.1	3.1	8.0	4.4
Apr	12		26.3	-	7.0	9.1	82.2	22.0	11.6	1.7	21.9	110.7	9.0	3.1	8.0	4.3
May	12	162.2	26.3	-	7.0	9.1	82.4	22.1	11.6	1.7	21.7	111.1	8.9	3.1	8.0	4.5
	Public	c buildii	ng and	Ioan a	ssociatio	ons										
2018 Mar	8		15.9	0.0	9.1	3.0	23.7				2.3	59.3	0.2	-	3.6	2.8
Apr	8		15.9	0.0	9.2	3.0	23.8	3.4	13.9	0.9	2.6	59.4	0.3	-	3.6	2.6
May	8	70.4	16.1	0.0	9.2	3.0	23.9	3.4	13.9	0.9	2.5	59.6	0.3	-	3.6	2.9

Trends in building and loan association business

€ billion

	Changes in			Capital pro	mised	Capital disk	ursed					Disburse		Interest ar		
	loan contr						Allocation	s				outstand end of pe	ing at	repaymen received of building lo	n	
			Repay- ments of				Deposits u savings an loan contr	d	Loans und savings an loan contr	d	Newly	cha or p	liou	bullulling le		
	Amounts paid into savings	Interest credited on deposits under savings	deposits under cancelled savings and		of which			of which Applied to settle- ment of interim and		of which Applied to settle- ment of interim	granted interim and bridging loans and		of which Under alloc-		<i>of</i> <i>which</i> Repay-	Memo item Housing
Period	and loan ac- counts 9	and loan con- tracts	loan con- tracts	Total	Net alloca- tions 11	Total	Total	and bridging loans	Total	and bridging loans	other building loans	Total	ated con- tracts	Total	ments during quarter	bonuses re- ceived 12
	All bui	lding ar	nd loan	associa	ations											
2016 2017	27.5 26.7	2.2 2.3	7.6 7.6	46.8 45.3	27.4 26.0	40.9 39.6		4.4 4.1	4.9 4.5	3.7 3.4	18.8 18.7	16.3 16.4	8.0 7.4		7.2 6.2	0.2
2018 Mar Apr	2.3 2.2	0.0 0.0	0.7 0.7	3.9 4.1	2.0 2.3	3.3 3.5	1.3 1.4	0.3 0.4	0.3 0.5	0.2 0.4	1.7 1.6	17.5 17.6	7.6 7.6		1.4	0.0 0.0
May	2.5						1.3	0.4	0.4	0.3	1.5	17.8	7.5	0.5		0.0
	Private	buildin	g and	loan as	sociatio	ns										
2018 Mar Apr May	1.5 1.4 1.6	0.0	0.3	3.0	1.2 1.6 1.4	2.7	1.1	0.2 0.3 0.3	0.3	0.3	1.3	12.5	4.2	0.4		0.0 0.0 0.0
	Public	building	and l	oan ass	ociation	ıS										
2018 Mar Apr May	0.8 0.8 0.9	0.0	0.3	1.1	0.8 0.7 0.7	0.8 0.9 0.8	0.4	0.1 0.1 0.1	0.1	0.1	0.4	5.1	3.3	0.1		0.0 0.0 0.0

^{*} Excluding assets and liabilities and/or transactions of foreign branches. The figures for the latest date are always to be regarded as provisional. Subsequent revisions, which appear in the following Monthly Report, are not specially marked. 1 Including claims on building and loan associations, claims arising from registered debt securities and central bank credit balances. 2 Loans under savings and loan contracts and interim and bridging loans. 3 Including money market paper and small amounts of other securities issued by banks. 4 Including equalisation claims. 5 Including liabilities to building and loan associations. 6 Including small amounts of savings deposits. 7 Including participation rights capital and fund for general banking risks.

⁸ Total amount covered by the contracts; only contracts newly entered into, for which the contract fee has been fully paid. Increases in the sum contracted count as new contracts. **9** For disbursements of deposits under savings and loan contracts arising from the allocation of contracts see "Capital disbursed". **10** Including housing bonuses credited. **11** Only allocations accepted by the beneficiaries; including allocations applied to settlement of interim and bridging loans. **12** The amounts already credited to the accounts of savers or borrowers are also included in "Amounts paid into savings and loan accounts" and "Interest and repayments received on building loans". **13** See Table IV.2, footnote 1.

13 Assets and liabilities of the foreign branches and foreign subsidiaries of German banks (MFIs) *

	€ billion														
	Number of			Lending to	banks (MFIs)			Lending to	non-banks	(non-MFIs)			Other asset	'S 7
Ported	and/or foreign subsi-	foreign branches 1 and/or foreign subsi-	Balance sheet total 7	Total	Credit balar	German banks	Foreign banks	Money market paper, secur- ities 2,3	Total	Loans	to German non-	to foreign non- banks	Money market paper, secur- ities 2	Total	of which Derivative financial instruments in the trading
Period	diaries Foreign	diaries branch		IOLAI	IOLAI	Danks	Daliks	Itles 2,3	IOLAI	IOLAI	banks	Danks		year or	portfolio month *
2015 2016 2017 2017 July Aug Sep Oct Nov Dec 2018 Jan Feb Mar	51 51 52 51 51 51 51 51 52 50 50 50	198 191 187 192 191 190 187 187 187 188 183 183	1,842.9 1,873.3 1,647.8 1,787.7 1,752.1 1,746.8 1,788.9 1,712.1 1,647.8 1,741.4 1,670.4 1,594.2	526.0 584.2 493.9 564.8 537.7 549.5 579.0 516.9 493.9 508.5 510.1 507.4	508.7 570.5 484.1 552.6 526.1 537.6 567.0 505.0 484.1 496.7 497.5 495.1	161.3 205.0 197.1 199.5 171.1 176.8 185.8 187.2 197.1 201.0 210.0 188.2	347.5 365.5 287.0 353.1 355.0 360.8 381.1 317.9 287.0 295.7 287.5 306.8	17.3 13.8 9.8 12.1 11.6 11.9 12.1 11.9 9.8 11.8 12.5 12.4	635.1 580.5 528.8 546.9 545.3 568.1 558.7 562.5 528.8 536.6 526.2 506.8	511.6 489.8 443.2 463.7 461.7 481.8 477.1 481.7 443.2 454.7 450.5 426.9	14.0 14.5 13.1 13.3 13.2 13.5 13.6 13.1 13.2 12.7 12.9	475.3 430.1 450.4 448.5 468.3 463.6 468.1 430.1 441.5 437.8 414.0	123.6 90.8 85.6 83.1 83.7 86.3 81.5 80.9 85.6 81.9 75.7 79.9	681.8 708.5 625.1 676.1 669.1 629.2 651.2 632.7 625.1 696.3 634.1 580.0	499.0 485.3 402.9 438.4 432.2 408.3 418.3 416.0 402.9 444.0 413.4 385.2
			.,												nanges *
2016 2017 2017 Aug Sep Oct Nov Dec 2018 Jan Feb Mar Apr	± 0 + 1 - - + 1 - 2 - - - 1	- 7 - 4 - 1 - 1 - 3 - 3 - 1 - 1	+ 29.1 - 216.7 - 34.9 - 5.5 + 41.1 - 75.5 - 63.5 + 95.9 - 72.6 - 75.6 + 39.1	+ 49.3 - 52.5 - 24.2 + 10.6 - 56.8 - 20.0 + 22.3 - 2.9 - 1.0 - 7.0	+ 52.9 - 49.4 - 23.7 + 10.3 + 25.5 - 56.7 - 18.0 + 20.2 - 3.6 - 0.8 - 7.3	+ 43.7 - 7.9 - 28.4 + 5.6 + 9.1 + 1.3 + 9.9 + 4.0 + 9.0 - 21.8 - 1.2	+ 9.2 - 41.5 + 4.7 + 4.6 + 16.5 - 58.0 - 27.9 + 16.2 - 12.6 + 21.0 - 6.2	- 3.5 - 3.1 - 0.5 + 0.3 + 0.1 - 0.1 - 2.0 + 2.1 + 0.7 - 0.2 + 0.3	- 56.4 - 10.9 + 2.3 + 20.5 - 13.6 + 9.1 - 29.8 + 17.0 - 16.0 - 17.5 + 13.6	- 24.6 - 10.0 + 1.1 + 18.6 - 8.4 + 9.3 - 35.0 + 19.5 - 9.2 - 21.8 + 13.2	+ 0.5 - 1.4 - 0.2 + 0.3 + 0.0 + 0.1 - 0.5 + 0.1 - 0.5 + 0.2 - 2.2	- 25.1 - 8.6 + 1.3 + 18.3 - 8.4 + 9.2 - 34.5 + 19.4 - 8.8 - 22.0 + 15.3	- 0.9 + 1.2 + 1.9 - 5.2 - 0.2 + 5.2 - 2.5 - 6.7 + 4.3	+ 24.9 - 74.6 - 6.3 - 40.0 + 21.0 - 17.3 - 6.7 + 73.5 - 63.8 - 53.6	- 14.8 - 60.4 - 4.3 - 25.1 + 7.9 + 0.3 - 11.1 + 46.4 - 33.9 - 26.9
	Foreign	subsidi	aries										End of	year or	month *
2015 2016 2017 2017 July Aug Sep Oct Nov Dec 2018 Jan Feb Mar Apr	24 20 20 20 20 20 20 20 20 20 20 20 20	58 53 50 53 52 52 52 50 50 50 50 50	376.0 320.5 276.6 280.7 279.0 284.6 276.9 277.3 276.6 274.8 273.9 276.0 267.7	126.5 82.1 70.4 79.2 74.8 77.0 73.1 74.1 70.4 71.5 73.0 72.3 64.4	113.5 72.2 63.9 72.5 67.8 70.2 66.7 67.5 63.9 64.6 66.4 65.8	50.1 21.4 25.0 26.6 28.8 30.2 27.8 25.0 25.6 26.6 26.5	63.4 50.8 39.0 45.9 39.0 39.9 39.7 39.0 39.8 39.3 34.3	13.0 9.9 6.5 6.8 6.9 6.6 6.5 6.9 6.6 6.5 6.4	184.3 161.4 149.5 147.0 153.1 155.2 145.5 145.5 149.5 146.3 147.0 150.3	152.5 130.3 122.2 119.2 125.7 127.1 118.2 117.9 122.2 119.8 120.3 123.1 120.7	22.2 22.6 22.2 22.7 23.0 23.0 22.9 22.6 22.2 22.7 22.5 21.7	107.7 99.9 96.5 102.7 104.1 95.3 95.3 99.9 97.6 97.7 100.6	31.2 27.4 27.8 27.5 28.1 27.3 27.6 27.4 26.5 26.6 27.2	76.9 56.7 54.5 51.1 52.4 58.3 57.7 56.7 56.9 53.9 53.4	- - - - - - - -
2016 2017 2017 Aug Sep Oct Nov Dec 2018 Jan Feb Mar Apr	- 4 	- 5 - 3 - 1 - 2 	- 56.8 - 33.3 - 0.9 + 5.2 - 8.4 + 1.5 + 0.1 + 0.2 - 2.1 + 2.9 - 9.2	- 45.9 - 4.9 - 4.0 + 2.0 - 4.3 + 1.9 - 3.1 + 2.5 + 0.7 - 0.2 - 8.5	- 42.6 - 2.4 - 4.2 + 2.2 - 3.8 + 1.6 - 3.1 + 1.9 + 1.1 - 0.2 - 8.2	- 28.7 + 3.5 + 2.3 + 1.4 - 2.4 + 0.0 - 2.8 + 0.7 + 1.0 - 0.1 - 2.9	- 13.9 - 6.0 - 6.4 + 0.8 - 1.4 + 1.5 - 0.3 + 1.2 + 0.1 - 5.3	- 2.5 + 0.2 - 0.2 - 0.5 + 0.3 - 0.0 + 0.6 - 0.4 - 0.0	- 22.7 - 8.2 + 6.4 + 1.9 - 10.0 + 0.3 + 4.3 - 2.6 + 0.2 + 3.6	- 22.1 - 4.4 + 6.7 + 1.3 - 9.2 + 0.1 + 4.5 - 1.7 + 0.2 + 3.0 - 2.7	+ 0.4 - 0.4 + 0.2 + 0.1 - 0.1 - 0.3 - 0.4 - 0.0 + 0.4 - 0.1 - 0.9	- 4.0 + 6.5 + 1.2 - 9.1 + 0.4 + 4.8 - 1.7 - 0.3 + 3.1	- 3.8 - 0.3 + 0.6 - 0.8 + 0.3 - 0.2 - 0.8 + 0.1 + 0.5	+ 11.8 - 20.2 - 3.4 + 1.4 + 5.9 - 0.7 - 1.0 + 0.3 - 3.0 - 0.5	- - - - - - -

^{*} In this table "foreign" also includes the country of domicile of the foreign branches and foreign subsidiaries. Statistical revisions have been eliminated from the changes. (Breaks owing to changes in the reporting population have not been eliminated from

the flow figures for the foreign subsidiaries.) The figures for the latest date are always to be regarded as provisional; subsequent revisions, which appear in the following Monthly Report, are not specially marked. 1 Several branches in a given

IV Banks

Deposits												Other liabilitie	es 6,7	
	of banks (M	IFIs)		of non-bank	cs (non-MFIs)									1
		German	Foreign		German nor	Short		Medium and long-	Foreign	Money market paper and debt securities out- stand-	Working capital and own		of which Derivative financial instruments in the trading	
Total	Total	banks	banks	Total	Total	term		term	non-banks	ing 5	funds	Total	portfolio	Period
End of ye	ear or mo	nth *										Foreig	ın branches	
1,060.9 1,136.5 1,000.3	715.3 800.9 682.5	359.3 424.9 372.8	356.0 376.0 309.7	345.6 335.6 317.8	21. 15. 16.	4	16.2 11.8 14.1	4.9 3.6 1.9	324.6 320.2 301.8	128.9 100.6 97.0	49.9 51.2 51.9		481.0	2015 2016 2017
1,105.0 1,075.3 1,094.2	780.2 739.6 760.6	399.6 372.0 385.6	380.6 367.5 375.0	324.7 335.7 333.6	14. 13. 14.	8	11.6 11.1 11.4	2.8 2.8 2.9	310.4 321.8 319.3	97.0 98.3 95.6	49.8 49.7 49.2	536.0 528.9 507.7	434.9 431.3 401.6	2017 July Aug Sep
1,127.3 1,051.4 1,000.3	768.4 695.8 682.5	379.7 352.4 372.8	388.7 343.4 309.7	358.9 355.6 317.8	14. 16. 16.	0	11.4 13.1 14.1	2.7 2.8 1.9	344.8 339.6 301.8	98.4 95.1 97.0	49.8 49.4 51.9	513.3 516.2 498.6	412.2	Oct Nov Dec
1,040.4 1,013.9 1,006.2	688.7 653.6 672.6	379.5 383.8 386.6	309.2 269.8 285.9	351.8 360.3 333.6	15. 14. 14.	9	14.0 13.2 13.0	1.6 1.6 1.7	336.2 345.4 318.9	109.6 105.7 97.3	51.4 51.4 50.9	499.5	413.3	2018 Jan Feb Mar
1,015.5	678.3	389.4	288.9	337.2	14.	8	13.2	1.6	322.5	99.6	51.1	468.2	399.6	Apr
Changes														
+ 66.8 - 97.3	+ 76.8 - 80.7	+ 65.6 - 52.1	+ 11.2 - 28.6	- 10.1 - 16.7	- 5. + 0.		4.4 2.3	- 1.2 - 1.7	- 4.4 - 17.3	- 29.6 + 5.2	+ 1.2 + 0.8	- 18.1 - 86.5	- 17.3 - 58.1	2016 2017
- 26.8 + 18.1	- 37.9 + 20.2	- 27.6 + 13.6	- 10.2 + 6.6	+ 11.0 - 2.1	- 0. + 0.		0.5 0.3	- 0.0 + 0.2	+ 11.6 - 2.6	+ 2.0 - 2.8	- 0.1 - 0.5	- 7.1 - 21.2	- 1.7 - 30.7	2017 Aug Sep
+ 29.1 - 70.5 - 47.9	+ 3.9 - 67.4 - 10.3	- 6.0 - 27.3 + 20.4	+ 9.8 - 40.1 - 30.6	+ 25.2 - 3.1 - 37.7	- 0. + 1. + 0.	2 – 9 +	0.0 1.8 1.0	- 0.2 + 0.1 - 0.9	+ 25.4 - 5.0 - 37.7	+ 1.9 - 2.2 + 2.8	+ 0.5 - 0.3 + 2.5	+ 5.6 + 2.9 - 17.6	+ 9.0 + 2.2	Oct Nov Dec
+ 48.2 - 31.1 - 6.1	+ 13.9 - 39.4 + 20.5	+ 6.7 + 4.4 + 2.8	+ 7.2 - 43.8 + 17.7	+ 34.2 + 8.3 - 26.6	- 0. - 0. - 0.	4 – 8 –	0.1 0.8 0.2	- 0.3 + 0.0 + 0.0	+ 34.6 + 9.1 - 26.4	+ 15.0 - 5.6 - 7.9	- 0.5 - 0.0 - 0.5	+ 41.4 - 40.4 - 59.6	+ 49.2 - 32.9	2018 Jan Feb Mar
+ 5.5			- 0.8	+ 3.5	l	1 +	0.2	- 0.1	+ 3.4	+ 1.2	+ 0.3		1	Apr
End of ye	ear or mo	onth *										Foreign	subsidiaries	
292.3 247.0 207.1	166.7 134.3 96.3	99.6 71.8 49.8	67.1 62.5 46.5	125.7 112.7 110.8	13. 12. 12.	2	10.5 6.7 6.2	2.6 5.5 5.8	112.6 100.5 98.8	14.4 13.6 13.0	26.3 23.8 24.2	42.9 36.0 32.3	- - -	2015 2016 2017
213.2 211.8 217.0	104.2 103.9 105.9	55.0 56.6 58.1	49.2 47.3 47.9	109.0 108.0 111.1	13. 13. 12.	4	8.0 7.7 7.1	5.9 5.7 5.6	95.1 94.6 98.5	13.0 13.0 12.9	23.0 23.1 23.2	31.5 31.1 31.5	-	2017 July Aug Sep
208.6 207.8 207.1	99.9 98.1 96.3	53.3 53.3 49.8	46.7 44.8 46.5	108.7 109.7 110.8	11. 11. 12.	9	5.9 6.1 6.2	5.8 5.8 5.8	97.0 97.8 98.8	12.9 12.9 13.0	23.1 23.1 24.2	32.3 33.6 32.3	- - -	Oct Nov Dec
206.0 205.2 207.3	94.1	50.3 50.6 50.4	45.8 43.6 45.5	110.0 111.1 111.3	12. 12. 11.	0	6.3 6.2 5.3	5.9 5.8 5.9	97.8 99.1 100.1	13.0 13.8 13.7	24.0 23.6 23.9	31.3		2018 Jan Feb Mar
200.4	90.3	48.5	41.7	110.1	11.	6	5.7	5.9	98.6	13.4	23.8	30.1	-	Apr
Changes														
- 46.2 - 32.8		- 27.8 - 22.0	- 5.7 - 11.8	- 12.7 + 0.9	- 0. - 0.	9 – 2 –	3.8 0.5	+ 2.9 + 0.3	- 11.9 + 1.1	- 0.8 - 0.6	- 2.5 + 0.3	- 7.3 - 0.3		2016 2017
- 0.8 + 4.9	+ 0.0 + 1.9	+ 1.6 + 1.5	- 1.6 + 0.4	- 0.8 + 3.0	- 0. - 0.		0.3 0.6	- 0.2 - 0.1	- 0.3 + 3.7	- 0.0 - 0.1	+ 0.0 + 0.2	- 0.1 + 0.3		2017 Aug Sep
- 9.0	- 6.4	- 4.8	- 1.6	- 2.7	- 1.	0 -	1.2	+ 0.2	- 1.7	- 0.0	- 0.1	+ 0.7	-	Oct
- 0.0 - 0.1	- 1.4 - 1.4	+ 0.0 - 3.5	- 1.4 + 2.0	+ 1.4 + 1.3	+ 0.		0.3 0.1	- 0.0 - 0.0	+ 1.1 + 1.3	+ 0.0 + 0.1	- 0.1 + 1.1	+ 1.6 - 1.1	-	Nov Dec
+ 0.6 - 1.7	+ 0.7 - 2.4	+ 0.5 + 0.3	+ 0.2 - 2.7	- 0.1 + 0.7	+ 0. - 0.		0.1 0.1	+ 0.1 - 0.1	- 0.3 + 0.9	- 0.0 + 0.8	- 0.2 - 0.4	- 0.1 - 0.8		2018 Jan Feb
+ 2.4	+ 2.0	- 0.1	+ 2.1 - 4.3	+ 0.4 - 1.5	- 0.		0.8	+ 0.1	+ 1.2	- 0.1	+ 0.3	+ 0.2	-	Mar
/./	0.2	- 1.9	- 4.3	- 1.5	, + U	-ı +	0.3	T U.I	- 1.9	0.5	U.I	_ 1.0		■ Ahi

country of domicile are regarded as a single branch. **2** Treasury bills, Treasury discount paper and other money market paper, debt securities. **3** Including own debt securities. **4** Excluding subordinated liabilities and non-negotiable debt

securities. **5** Issues of negotiable and non-negotiable debt securities and money market paper. **6** Including subordinated liabilities. **7** See also Table IV.2, footnote 1.

V Minimum reserves

1 Reserve maintenance in the euro area

€ billion

Maintenance period beginning in 1	Reserve base 2	before deduction of	Required reserves after deduction of lump-sum allowance 4	Current accounts 5	Excess reserves 6	Deficiencies 7
2011	10,376.3	207.5	207.0	212.3	5.3	0.0
2012	10,648.6	106.5	106.0	489.0	383.0	0.0
2013	10,385.9	103.9	103.4	248.1	144.8	0.0
2014	10,677.3	106.8	106.3	236.3	130.1	0.0
2015	11,375.0	113.8	113.3	557.1	443.8	0.0
2016	11,918.5	119.2	118.8	919.0	800.3	0.0
2017	12,415.8	124.2	123.8	1,275.2	1,151.4	0.0
2018 May	12,415.6	124.2	123.8	1,354.0	1,230.2	0.0
June p	12,509.3	125.1	124.7			
July						

2 Reserve maintenance in Germany

€ million

Maintenance period beginning in 1	Reserve base 2	German share of euro-area reserve base in per cent	before deduction of	Required reserves after deduction of lump-sum allowance 4	Current accounts 5	Excess reserves 6	Deficiencies 7
2011	2,666,422	25.7	53,328	53,145	54,460	1,315	1
2012	2,874,716	27.0	28,747	28,567	158,174	129,607	1
2013	2,743,933	26.4	27,439	27,262	75,062	47,800	2
2014	2,876,931	26.9	28,769	28,595	75,339	46,744	4
2015	3,137,353	27.6	31,374	31,202	174,361	143,159	0
2016	3,371,095	28.3	33,711	33,546	301,989	268,443	0
2017	3,456,192	27.8	34,562	34,404	424,547	390,143	2
2018 May	3,467,454		34,675	34,517	465,994	431,477	0
June P	3,502,652	28.0	35,027	34,870			
July	l .	l					. [

(a) Required reserves of individual categories of banks

€ million

Maintenance period beginning in 1	Big banks	Regional banks and other commercial banks	Branches of foreign banks	Landesbanken and savings banks	Credit cooperatives		Banks with special, development and other central support tasks
2011	10,459	8,992	3,078	18,253	9,437	601	2,324
2012 3	5,388	4,696	2,477	9,626	4,886	248	1,247
2013	5,189	4,705	1,437	9,306	5,123	239	
2014	5,593	4,966	1,507	9,626	5,375	216	
2015	6,105	5,199	2,012		5,649	226	
2016	6,384	5,390	2,812		5,960	236	
2017	6,366	5,678	3,110	11,163	6,256	132	1,699
2018 May	6,188	5,773	3,118		6,364	104	
June	6,164	5,765	3,323	11,397	6,406	99	1,716
July	I .	l					1 .1

(b) Reserve base by subcategories of liabilities

€ million

	CITIMION				
Maintenance	deposits, deposits with build- ing and loan associations and repos) to non-MFIs with			Savings deposits with agreed periods of notice of up	Liabilities arising from bearer debt securities issued with agreed maturities of up to 2 years and bearer money market paper after deduction of a standard amount for bearer debt certificates or deduction of such paper held by the reporting institution
2011	1,609,904				102,153
2012 2013	1,734,716 1,795,844	2,451 2,213	440,306 255,006	602,834 600,702	94,453 90,159
2014	1,904,200	1,795	282,843	601,390	86,740
2015	2,063,317	1,879	375,891	592,110	
2016 2017	2,203,100 2,338,161	1,595 628	447,524 415,084	585,099 581,416	133,776 120,894
2017 2018 May	2,365,915		·	580,598	113,347
June	2,384,432	1,509 1,138	423,273	579,885	113,347
July]	.,.55		373,665	,,,,,,,

¹ The reserve maintenance period starts on the settlement day of the main refinancing operation immediately following the meeting of the Governing Council of the ECB for which the discussion on the monetary policy stance is scheduled. 2 Article 3 of the Regulation of the European Central Bank on the application of minimum reserves (excluding liabilities to which a reserve ratio of 0% applies, pursuant to Article 4 (1)). 3 Amount after applying the reserve ratio to the reserve base. The reserve ratio for liabilities with agreed maturities of up to two years was

2% between 1 January 1999 and 17 January 2012. Since 18 January 2012, it was stood at 1%. **4** Article 5 (2) of the Regulation of the European Central Bank on the application of minimum reserves. **5** Average credit balances of credit institutions at national central banks. **6** Average credit balances less required reserves after deduction of the lump-sum allowance. **7** Required reserves after deduction of the lump-sum allowance.

1 ECB interest rates

2 Base rates

% per annum

			Main refir operation						Main refir operation		
Applicable from		Deposit facility	Fixed rate	Minimum bid rate	Mar- ginal lending facility	Applicable from		Deposit facility	Fixed rate	Minimum bid rate	Mar- ginal lending facility
2005 Dec	6	1.25	-	2.25	3.25	2011 Apr July	13 13	0.50 0.75	1.25 1.50	_	2.00 2.25
2006 Mar June	8 15	1.50 1.75	-	2.50 2.75	3.50 3.75	Nov	9 14	0.50 0.25	1.25 1.00	-	2.00 1.75
Aug Oct Dec	9 11 13	2.00 2.25 2.50	- -	3.00 3.25 3.50	4.00 4.25 4.50	2012 July	11	0.00	0.75	-	1.50
2007 Mar June	14	2.75 3.00	-	3.75 4.00	4.75 5.00	2013 May Nov		0.00 0.00	0.50 0.25	_	1.00 0.75
2008 July	9	3.25	_	4.25	5.25	2014 June Sep	11 10	-0.10 -0.20	0.15 0.05	_ _	0.40 0.30
Oct Oct Nov	8 9 12	2.75 3.25 2.75	3.75 3.25	3.75 - -	4.75 4.25 3.75	2015 Dec	9	-0.30	0.05	-	0.30
Dec	10	2.00	2.50	-		2016 Mar	16	-0.40	0.00	-	0.25
2009 Jan Mar Apr May	21 11 8 13	1.00 0.50 0.25 0.25	2.00 1.50 1.25 1.00	- - - -	3.00 2.50 2.25 1.75						

% per a	nnum				
Applicab from	ole	Base rate as per Civil Code 1	Applicabl from	e	Base rate as per Civil Code 1
2002 Jar Jul		2.57 2.47	2009 Jan July		1.62 0.12
2003 Jar Jul		1.97 1.22	2011 July	1	0.37
2004 Jar	, 1	1.14	2012 Jan	1	0.12
Jul	,	1.13	2013 Jan July		-0.13 -0.38
2005 Jar Jul		1.21 1.17	2014 Jan July	1	-0.63 -0.73
2006 Jar Jul		1.37 1.95	 	1	-0.83
2007 Jar Jul		2.70 3.19	2016 July	1	-0.88
2008 Jar Jul		3.32 3.19			

3 Eurosystem monetary policy operations allotted through tenders *

			Fixed rate tenders	rate tenders Variable rate tenders				
	Bid amount	Allotment amount	Fixed rate	Minimum bid rate		Weighted average rate		
Date of settlement	€ million		% per annum				Running for days	
	Main refinancing	operations						
2018 June 20 June 27		1,544 2,738	0.00 0.00	_	_	_	7 7 7	
July 4 July 11	1,910	2,283 1,910	0.00 0.00	- -	- -	- -	7 7	
July 18	1,958 Long-term refina	1,958 ncing operations	0.00	-	-1	-	/	
2018 Mar 29	1 -	2,359	2 0.00	-	-	-	91	
Apr 26	2,281	2,281	2	-	-	-	91	
May 31	2,887	2,887	2	-	-	-	91	
June 28	2,266	2,266	2	_	_	-	91	

^{*} Source: ECB. 1 Lowest or highest interest rate at which funds were allotted or collected. 2 Interest payment on the maturity date; the rate will be fixed at the

average minimum bid rate of the main refinancing operations over the life of this operation.

4 Money market rates, by month *

% per annum

Monthly average 2017 Dec 2018 Jan Feb Mar Apr May June

	EURIBOR 2										
EON	NIA 1	One-week funds	One-month funds	Three-month funds	Six-month funds	Nine-month funds	Twelve-month funds				
	- 0.34	- 0.38	- 0.37	- 0.33	- 0.27	- 0.22	- 0.19				
	- 0.36	- 0.38	- 0.37	- 0.33		- 0.22	– 0.19 – 0.19 – 0.19				
	- 0.36		- 0.37	- 0.33	- 0.27	- 0.22	- 0.19				
	- 0.36	- 0.38	- 0.37	- 0.33	- 0.27	- 0.22	- 0.19				
	- 0.37 - 0.36 - 0.36	- 0.38	- 0.37	- 0.33	- 0.27	- 0.22	- 0.19 - 0.19 - 0.18				
	- 0.36	- 0.38 - 0.38	- 0.37	- 0.33	- 0.27	- 0.22	- 0.19				
	- 0.36	- 0.38	- 0.37	- 0.32	- 0.27	- 0.21	- 0.18				

^{*} Averages are Bundesbank calculations. Neither the Deutsche Bundesbank nor anyone else can be held liable for any irregularity or inaccuracy of the EONIA rate and the EURIBOR rate. 1 Euro OverNight Index Average: weighted average overnight rate for interbank operations calculated by the European Central Bank since

¹ Pursuant to section 247 of the Civil Code.

⁴ January 1999 on the basis of real turnover according to the act/360 method and published via Reuters. 2 Euro Interbank Offered Rate: unweighted average rate calculated by Reuters since 30 December 1998 according to the act/360 method.

5 Interest rates and volumes for outstanding amounts and new business of German banks (MFIs) * (a) Outstanding amounts o

Households' deposits				Non-financial corporations' deposits					
with an agreed matu	rity of								
up to 2 years		over 2 years		up to 2 years		over 2 years			
Effective interest rate 1 % pa	Volume ² € million	Effective interest rate 1 % pa	Volume ² € million	Effective interest rate 1 % pa	Volume ² € million	Effective interest rate 1 % pa	Volume ² € million		
0.33	71,503	1.41	217,847	0.08	82,646	1.41	20,471		
0.33	69,952	1.40	217,154	0.08	80,018	1.35	20,770		
0.32	69,365	1.39	216,115	0.08	78,396	1.31	21,529		
0.31	69,014	1.37	215,909	0.09	78,517	1.30	22,146		
0.31	67,904	1.36	215,817	0.08	77,405	1.25	22,356		
0.30		1.35	215,503	0.08	76,092	1.18	23,093		
0.30		1.34	215,034	0.08	77,669	1.12	24,421		
0.29		1.34	216,841	0.06	78,428	1.07	25,136		
0.29	66,589	1.32	216,681	0.05	78,112	1.05	26,055		
0.28	65,984	1.31	216,585	0.04	75,362	1.03	26,887		
0.27	65,081	1.30	216,572	0.05	72,699	1.01	26,676		
0.27	64,883	1.29	216,237	0.04	69,677	0.99	26,913		
0.27	64,743	1.28	216,238	0.06	68,665	0.97	26,849		

	Housing loan:	s to household	s 3				Loans for consumption and other purposes to households 4, 5					
	with a maturi	ty of										
	up to 1 year 6		over 1 year and up to 5 years		over 5 years		up to 1 year 6		over 1 year and up to 5 years		over 5 years	
nd of nonth	Effective interest rate 1 % pa	Volume 2 € million	Effective interest rate 1 % pa	Volume 2 € million	Effective interest rate 1 % pa	Volume 2 € million	Effective interest rate 1 % pa	Volume 2 € million	Effective interest rate 1 % pa	Volume 2	Effective interest rate 1 % pa	Volume 2 € million
017 May	2.44	4,304		26,188	2.85	1,108,805	7.13	49,165	3.96	84,813	4.06	311,334
June	2.44	4,200		26,206	2.83	1,115,307	7.17	50,307	3.95	85,111	4.04	310,769
July	2.46	4,076	2.00	26,017	2.80	1,120,699	7.15	49,247	3.93	85,513	4.03	311,617
Aug	2.45	4,035		25,937	2.77	1,125,823	7.17	48,525	3.92	85,972	4.01	313,025
Sep	2.42	3,934		25,996	2.75	1,131,500	7.12	49,521	3.91	86,239	4.00	312,467
Oct	2.38	4,208		25,925	2.73	1,135,284	7.14	48,762	3.89	86,683	3.98	312,869
Nov	2.44	3,898		25,924	2.71	1,139,714	7.00	48,352	3.87	87,393	3.96	312,973
Dec	2.44	3,851		25,850	2.68	1,143,333	6.98	48,885	3.87	87,210	3.95	311,861
018 Jan	2.33	3,906	1.96	25,566	2.66		7.07	48,461	3.85	87,632	3.93	312,287
Feb	2.31	3,869	1.95	25,474	2.65		7.07	48,468	3.84	87,842	3.92	312,671
Mar	2.31	3,983	1.94	25,497	2.62		7.03	49,131	3.82	88,481	3.91	311,587
Apr	2.32	3,933	1.93	25,480	2.60	1,157,212	6.99	48,590	3.79	89,131	3.90	312,321
May	2.31	4,021	1.93	25,588	2.58	1,162,273	7.04	48,212	3.76	84,796	3.89	312,644

up to 1 year 6		over 1 year and up to 5 year	rs	over 5 years		
Effective interest rate 1 % pa			Volume ² € million	Effective interest rate 1 % pa	Volume 2 € million	
2.45	131,174		134,474	2.35	649,08	
2.51	132,255		134,974	2.33	645,39	
2.45	131,691	1.95	135,710	2.31	650,49	
2.44	130,333	1.94	136,527	2.30	654,31	
2.45	135,493	1.93	135,872	2.28	654,80	
2.39	136,523	1.91	136,647	2.26	657,91	
2.42	137,523		138,041	2.25	664,01	
2.47	133,105		137,708	2.22	664,37	
2.34	141,326	1.88	138,344	2.20	668,28	
2.39	142,819		138,735	2.19	672,40	
2.39	145,640		139,810	2.18	672,25	
2.33	145,705		140,823	2.16	675,23	
2.26	149,356		138,969	2.15	678,53	

^{*} The interest rate statistics gathered on a harmonised basis in the euro area from January 2003 are collected in Germany on a sample basis. The MFI interest rate statistics are based on the interest rates applied by MFIs and the related volumes of euro-denominated deposits and loans to households and non-financial corporations domiciled in the euro area. The household sector comprises individuals (including sole domiciled in the euro area. The household sector comprises individuals (including sole proprietors) and non-profit institutions serving households. Non-financial corporations include all enterprises other than insurance companies, banks and other financial institutions. The most recent figures are in all cases to be regarded as provisional. Subsequent revisions appearing in the following Monthly Report are not specially marked. Further information on the MFI interest rate statistics can be found on the Bundesbank's website (Statistics / Money and capital markets / Interest rates and yields / Interest rates on deposits and loans). • The statistics on outstanding amounts are collected at the end of the month. • The effective interest rates are

calculated either as annualised agreed interest rates or as narrowly defined effective calculated either as annualised agreed interest rates or as narrowly defined effective rates. Both calculation methods cover all interest payments on deposits and loans but not any other related charges which may occur for enquiries, administration, preparation of the documents, guarantees and credit insurance. 2 Data based on monthly balance sheet statistics. 3 Secured and unsecured loans for home purchase, including building and home improvements; including loans granted by building and loan associations and interim credits as well as transmitted loans granted by the reporting agents in their own name and for their own account. 4 Loans for consumption are defined as loans granted for the purpose of personal use in the consumption of goods and services. 5 For the purpose of these statistics, other loans are loans granted for other purposes such as business, debt consolidation, education etc. 6 including overdrafts (see also footnotes 12 to 14 p 47*). etc. 6 Including overdrafts (see also footnotes 12 to 14 p 47 °).

End of 2017 May June July Aug Sep Oct Nov Dec 2018 Jan Feb Mar

Apr May

mc 20 20

End of month 2017 May June July Aug Sep Nov Dec Feb Mar

Apr May

5 Interest rates and volumes for outstanding amounts and new business of German banks (MFIs) * (cont'd) (b) New business +

	Households' o	deposits										- 1
			with an agree	ed maturity of					redeemable a	t notice of 8		
	Overnight		up to 1 year		over 1 year and	up to 2 years	over 2 years		up to 3 montl	hs	over 3 month	s
g	Effective interest rate 1 % pa	Volume 2 € million	Effective interest rate 1 % pa	Volume 7 € million	Effective interest rate 1 % pa	Volume 7 € million	Effective interest rate 1 % pa	Volume 7 € million	Effective interest rate 1 % pa	Volume 2 € million	Effective interest rate 1 % pa	Volume 2 € million
ay	0.05	1,258,521	0.20	4,724	0.43	719	0.87	726	0.21	536,046	0.30	48,646
ne	0.04	1,264,791	0.22	4,078	0.27	947	0.73	633	0.21	535,416	0.30	48,253
y	0.04	1,271,823	0.17	5,276	0.31	653	0.70	617	0.20	537,553	0.31	44,902
g	0.03	1,278,289	0.14	5,198	0.41	492	0.65	716	0.19	537,173	0.30	44,119
p	0.03	1,285,601	0.15	3,992	0.31	598	0.65	636	0.19	537,108	0.30	43,509
t	0.03	1,294,797	0.18	3,750	0.28	800	0.65	696	0.19	537,700	0.28	42,721
ov	0.03	1,314,663	0.17	4,022	0.39	696	0.72	747	0.18	537,935	0.27	42,074
c	0.03	1,322,096	0.13	4,043	0.35	880	0.59	627	0.18	540,332	0.28	41,475
n	0.03	1,319,368		4,348	0.31	866	0.71	780	0.18	539,145	0.28	42,193
b	0.03	1,328,779		4,181	0.31	652	0.80	737	0.17	539,604	0.27	41,465
ar	0.02	1,334,702		3,995	0.38	470	0.74	765	0.17	539,077	0.27	41,021
r	0.02	1,347,466		4,240	0.32	552	0.60	712	0.17	538,787	0.26	40,559
ay	0.02	1,360,605		4,235	0.42	446	0.62	587	0.16	538,616	0.27	40,277

	Non-financial corpora	ations' deposits						
			with an agreed matu	rity of				
	Overnight		up to 1 year		over 1 year and up to	2 years	over 2 years	
Reporting period	Effective interest rate 1 % pa	Volume 2 € million	Effective interest rate 1 % pa	Volume 7 € million	Effective interest rate 1 % pa	Volume 7 € million	Effective interest rate 1 % pa	Volume 7 € million
2017 May June	- 0.01 - 0.02	401,652 415,078		10,212 14,661	0.13 0.07	912 525	0.30 0.24	837 586
July Aug Sep	- 0.01 - 0.02 - 0.02	402,113 409,698 414,461		11,516 9,710 10,040	0.21	859 185 351	0.26 0.52 0.37	1,382 666 704
Oct Nov Dec	- 0.02 - 0.02 - 0.02	425,806 428,784 425,477	- 0.08	9,134 9,337 13,102	0.04 0.09 0.09	412 897 351	0.26 0.22 0.28	1,456 1,237 1,477
2018 Jan Feb Mar	- 0.02 - 0.02 - 0.02	429,587 419,428 418,683	- 0.09	11,368 8,751 10,133	0.01 0.11 0.13	520 186 347	0.30 0.32 0.31	1,271 932 427
Apr May	- 0.03 - 0.03			8,954 9,576		314 490	0.35 0.34	815 587

	Loans to househo	olds									
	Loans for consum	nption with an ir	nitial rate fixation	of 4							
	Total including charges)	Total		of which renegotiated lo	oans 9	floating rate or up to 1 year 9		over 1 year and up to 5 years	ŀ	over 5 years	
Reporting period	Annual percentage rate of charge 10 % pa	Effective interest rate 1 % pa	Volume 7 € million	Effective interest rate 1 % pa	Volume 7 € million	Effective interest rate 1 % pa	Volume 7 € million	Effective interest rate 1 % pa	Volume 7 € million	Effective interest rate 1 % pa	Volume 7 € million
2017 May	5.89 5.87 9,372		7.22	1,814	6.41	337	4.49	3,846	6.87	5,189	
June	5.90 5.88 8,683		7.24	1,685	6.28	308	4.49	3,574	6.89	4,801	
July	5.99	5.97	8,940	7.32	1,872	6.22	299	4.57	3,561	6.95	5,080
Aug	5.88	5.86	8,827	7.20	1,724	6.51	312	4.54	3,703	6.84	4,812
Sep	5.67	5.65	8,212	7.11	1,465	6.09	305	4.31	3,579	6.72	4,328
Oct	5.67	5.65	8,338	7.07	1,495	6.06	302	4.30	3,758	6.81	4,278
Nov	5.63	5.61	8,216	7.10	1,410	6.09	306	4.31	3,827	6.80	4,083
Dec	5.39	5.37	6,701	6.83	1,004	5.81	297	4.15	3,315	6.63	3,089
2018 Jan	5.85	5.83	9,288	7.26	1,729	6.04	328	4.32	3,860	6.96	5,100
Feb	5.70	5.68	8,315	7.09	1,451	6.15	258	4.28	3,497	6.72	4,560
Mar	5.44	5.43	9,545	7.04	1,732	5.97	287	4.10	4,259	6.53	4,999
Apr	5.66	5.64	9,413	7.17	1,772	6.14	290	4.27	3,912	6.64	5,211
Mav	5.87	5.85	9,002	7.40	1.846	6.12	292	4.42	3,737	6.91	4,973

For footnotes * and 1 to 6, see p 44 $^{\bullet}$. + In the case of deposits with an agreed maturity and all loans excluding revolving loans and overdrafts, credit card debt, new business covers all new agreements between households or non-financial corporations and the bank. The interest rates are calculated as volume-weighted average ations and the bank. The interest rates are calculated as volume-weighted average rates of all new agreements concluded during the reporting month. In the case of overnight deposits, deposits redeemable at notice, revolving loans and overdrafts, credit card debt, new business is collected in the same way as outstanding amounts for the sake of simplicity. This means that all outstanding deposit and lending business at the end of the month has to be incorporated in the calculation of average rates of interest. ${\bf 7}$ Estimated. The volume of new business is extrapolated to form the underlying total using a grossing-up procedure. 8 Including non-financial corporations' deposits; including fidelity and growth premia. 9 Excluding overdrafts. 10 Annual percentage rate of charge, which contains other related charges which may occur for enquiries, administration, preparation of the documents, guarantees and credit insurance. credit insurance.

Reporting period 2017 May June Sep Oct Nov Dec 2018 Jan

Feb Mar Apr May

5 Interest rates and volumes for outstanding amounts and new business of German banks (MFIs) * (cont'd) (b) New business $^{+}$

	Loans to househo	olds (cont'd)								
	Loans for other p	urposes to househ	olds with an initia	al rate fixation of 5						
	Total		of which renegotiated loa	_{ins} 9	floating rate or up to 1 year 9		over 1 year and up to 5 years		over 5 years	
Reporting period	Effective interest rate 1 % pa	Volume 7 € million	Effective interest rate 1 % pa	Volume 7 € million	Effective interest rate 1 % pa	Volume 7 € million	Effective interest rate 1 % pa	Volume 7 € million	Effective interest rate 1 % pa	Volume 7 € million
	Loans to ho	useholds								
2017 May June	2.02 2.06	5,890 5,933	1.81 1.89	1,930 1,852	1.83 1.95	2,535 2,722	2.61 2.73	941 859	1.99 1.93	2,414 2,352
July Aug Sep	1.96 1.99 1.99	6,388 5,667 5,275	1.75 1.74 1.80	2,282 1,625 1,455	1.76 1.81 1.79	2,873 2,171 2,341	2.48 2.66 2.60	964 814 804	1.99 1.92 1.99	2,551 2,682 2,130
Oct Nov Dec	2.08 1.98 2.00	5,682 5,587 6,193	1.91 1.84 1.80	1,915 1,569 1,624	1.91 1.76 1.80	2,646 2,471 2,705	2.64 2.63 2.76	854 873 958	2.07 1.96 1.92	2,182 2,243 2,530
2018 Jan Feb Mar			1.94 1.77 1.87	2,035 1,470 1,424	1.85 1.77 1.77	2,693 2,161 2,440	2.62 2.50 2.58	888 753 950	1.97 1.99 2.08	2,436 2,148 2,493
Apr May	2.12 2.04	5,995 5,257	2.02 1.84	1,826 1,476	1.95 1.87	2,612 2,165	2.65 2.48	1,008 737	2.09 2.07	2,375 2,355
	of which	: loans to so	ole proprieto	ors						
2017 May June	2.12 2.15	4,033 4,197	:	:	2.04 2.13	1,667 1,964	2.84 2.84	689 681	1.92 1.88	1,677 1,552
July Aug Sep	2.06 2.08 2.04	4,142 3,640 3,411			1.89 1.95 1.84	1,917 1,445 1,436	2.82 2.79 2.81	688 629 598	1.94 1.92 1.90	1,537 1,566 1,377
Oct Nov Dec	2.04 3,41 2.13 3,70 2.07 3,72 2.09 4,26				1.98 1.94 2.00	1,694 1,592 1,822	2.82 2.80 2.83	628 662 753	2.00 1.88 1.85	1,385 1,471 1,691
2018 Jan Feb Mar	2.07 2.07 2.07	4,146 3,412 4,103		:	1.99 2.01 1.87	1,817 1,390 1,645	2.72 2.61 2.65	679 564 741	1.89 1.93 2.02	1,650 1,458 1,717
Apr May	2.18 2.11	4,204 3,558	:	:	2.05 2.09	1,850 1,373	2.75 2.50	793 560	2.04 2.00	1,561 1,625

	Loans to househo	olds (cont'd)											
	Housing loans wit	th an initial rat	e fixation of	3									
	Total (including charges)	Total		of which renegotiated lo	ans 9	floating rate of up to 1 year 9		over 1 year a up to 5 years	nd	over 5 years a up to 10 years		over 10 years	
Reporting period	Annual percentage rate of charge 10 % pa	Effective interest rate 1 % pa	Volume 7 € million	Effective interest rate 1 % pa	Volume 7 € million	Effective interest rate 1 % pa	Volume 7 € million	Effective interest rate 1 % pa	Volume 7 € million	Effective interest rate 1 % pa	Volume 7 € million	Effective interest rate 1 % pa	Volume 7 € million
	Total loans												
2017 May June	1.88 1.87	1.83 1.82	20,484 19,294	1.92 1.92	4,136 3,767	2.17 2.02	2,288 2,265	1.77 1.70	1,731 1,541	1.66 1.68	7,308 6,573	1.88 1.89	9,157 8,915
July Aug Sep	1.88 1.82 1.94 1.87 1.92 1.86 1.90 1.85 1.90 1.84		20,405 20,228 17,363	1.88 2.00 1.91	4,612 3,743 3,289	2.04 2.05 2.04	2,389 2,340 2,025	1.68 1.89 1.71	1,726 1,888 1,571	1.66 1.67 1.71	7,420 7,199 5,950	1.92 1.98 1.96	8,870 8,801 7,817
Oct Nov Dec	1.92 1.86 17,363 1.90 1.85 18,128		1.90 1.89 1.87	3,955 3,525 3,242	2.08 2.04 2.04	2,134 2,170 2,150	1.70 1.72 1.69	1,634 1,640 1,553	1.68 1.68 1.65	6,611 6,550 6,084	1.96 1.94 1.86	7,749 8,433 7,686	
2018 Jan Feb Mar	1.88 1.90 1.94	1.82 1.84 1.89	19,643 18,839 20,592	1.90 1.95 1.95	4,529 3,687 3,981	2.03 2.07 2.05	2,354 2,090 2,256	1.69 1.73 1.73	1,798 1,624 1,773	1.65 1.68 1.74	6,864 6,400 7,047	1.92 1.92 1.98	8,627 8,725 9,516
Apr May	1.94 1.96	1.89 1.91	21,351 19,514	1.92 1.97	4,645 3,803	2.09 2.09	2,369 2,193	1.72 1.74	1,895 1,735	1.77 1.77	7,418 6,847	1.96 2.00	9,669 8,739
	of which	: collater	alised loa	ns ¹¹									
2017 May June	:	1.73 1.72	9,110 8,374		:	2.09 1.87	843 865	1.59 1.53	900 726	1.58 1.61	3,370 3,030	1.81 1.82	3,997 3,753
July Aug Sep		1.72 1.79 1.78	9,062 8,461 7,701			1.84 1.96 1.97	896 821 711	1.53 1.87 1.53	891 996 797	1.60 1.59 1.63	3,529 3,204 2,707	1.84 1.92 1.92	3,746 3,440 3,486
Oct Nov Dec		1.77 1.76 1.69	8,217 8,464 7,644			1.97 1.93 1.97	780 771 685	1.53 1.53 1.51	782 796 740	1.62 1.60 1.57	3,095 3,031 2,733	1.92 1.90 1.77	3,560 3,866 3,486
2018 Jan Feb Mar	:	1.75 1.76 1.81	9,069 8,579 9,154			2.00 2.02 1.96	837 702 831	1.57 1.53 1.61	946 803 871	1.59 1.61 1.67	3,283 2,946 3,271	1.88 1.86 1.94	4,003 4,128 4,181
Apr May	:	1.82 1.84	9,782 8,392		:	2.08 2.02	866 733	1.55 1.55	907 834	1.71 1.71	3,606 3,043	1.91 1.96	4,403 3,782

For footnotes * and 1 to 6, see p $44^{\bullet}.$ For footnotes +, 7 to 10, see p $45^{\bullet}.$ For footnote 11, see p $47^{\bullet}.$

5 Interest rates and volumes for outstanding amounts and new business of German banks (MFIs) * (cont'd) (b) New business +

	Loans to househo	lds (cont'd)					Loans to non-fin	ancial corporation	S	
			of which						of which	
	Revolving loans 13 and overdrafts 13 credit card debt 1		Revolving loans and overdrafts 1		Extended credit card debt		Revolving loans and overdrafts 1 credit card debt	3	Revolving loans and overdrafts 1	
Reporting period	Effective interest rate 1 % pa	Volume 2 € million	Effective interest rate 1 % pa	Volume 2 € million	Effective interest rate 1 % pa	Volume 2 € million	Effective interest rate 1 % pa	Volume 2 € million	Effective interest rate 1 % pa	Volume ² € million
2017 May June	8.46 39,394 8.44 40,606		8.50 8.47	31,647 32,739	15.13 15.13	4,259 4,328	3.53 3.59	65,353 67,282	3.54 3.61	65,067 66,992
July Aug Sep	8.44 40,606 8.45 39,300 8.48 38,663 8.44 39,630		8.46 8.47 8.48	31,374 30,914 31,635	15.11 15.12 15.09	4,423 4,364 4,393	3.52 3.48 3.52	65,979 66,012 67,886	3.54 3.49 3.54	65,695 65,718 67,559
Oct Nov Dec	8.44 39,630 8.47 39,133 8.30 38,673 8.21 39,538		8.48 8.35 8.35	30,489	15.10 15.11 14.94	4,493 4,386 4,303	3.41 3.45 3.47	67,481 67,793 65,936		67,162 67,457 65,625
2018 Jan Feb Mar	8.33 8.36 8.31	39,136 39,233 39,818	8.38 8.39 8.36	31,380	14.92 14.92 14.87	4,369 4,334 4,340	3.36 3.40 3.41	68,733 70,798 71,713	3.37 3.42 3.43	68,418 70,488 71,381
Apr May	8.29 8.29	39,308 39,116	8.35 8.38		14.85 14.79	4,408 4,376	3.29 3.35	72,449 71,010	3.30 3.37	72,100 70,690

	Loans to	non-financia	l corporati	ons (cont'd)												
			of which		Loans up	to €1 millio	n with an i	nitial rate fi	kation of 1	5	Loans ove	er €1 million	with an in	itial rate fix	ation of 15	i
	Total		renegotia loans 9	ted	floating ra up to 1 ye		over 1 yea up to 5 ye		over 5 year	ars	floating ra up to 1 ye		over 1 yea up to 5 ye		over 5 ye	ars
Reporting period	Effective interest rate 1 % pa	Volume 7 € million	Effective interest rate 1 % pa	Volume 7 € million	Effective interest rate 1 % pa	Volume 7 € million	Effective interest rate 1 % pa	Volume 7 € million								
	Total le	oans														
2017 May June	1.35 1.41	65,177 71,950	1.53 1.50	18,706 21,083	2.54 2.51	8,000 8,904	2.58 2.57	1,661 1,681	1.82 1.84	1,423 1,442	0.99 1.13	41,638 46,903	1.55 1.08	3,072 3,655	1.58 1.61	9,383 9,365
July Aug Sep	1.39 1.38 1.38	67,430 59,046 66,182	1.48 1.52 1.52	20,770 13,769 19,843	2.42 2.39 2.50	8,497 7,401 8,124	2.57 2.58 2.60	1,583 1,441 1,446	1.87 1.82 1.86	1,403 1,335 1,236	1.08 1.08 1.08	43,495 37,547 43,731	1.28 1.38 1.24	3,021 2,627 2,419	1.61 1.57 1.63	9,431 8,695 9,226
Oct Nov Dec	1.35 1.40 1.43	66,679 63,110 78,501	1.47 1.49 1.52	19,173 16,676 21,693	2.48 2.50 2.45	8,209 8,257 8,207	2.59 2.57 2.55	1,490 1,582 1,862	1.81 1.87 1.82	1,214 1,423 1,628	1.05 1.09 1.15	45,005 41,581 49,208	1.25 1.32 1.51	2,354 2,565 5,166	1.59 1.58 1.63	8,407 7,702 12,430
2018 Jan Feb Mar	1.22 1.32 1.42	69,664 53,831 69,102	1.49 1.48 1.52	18,190 13,339 18,706	2.48 2.47 2.48	8,321 7,501 8,966	2.53 2.57 2.52	1,607 1,390 1,744	1.92 1.97 1.93	1,361 1,123 1,470	0.89 0.94 1.09	50,613 36,050 44,944	1.72 1.43 1.50	2,238 1,794 3,379	1.55 1.68 1.74	5,524 5,973 8,599
Apr May	1.39 1.20	65,864 72,972	1.46 1.36	18,840 17,165	2.44 2.31	8,704 9,731	2.54 2.40	1,749 1,395	1.94 1.95	1,527 1,290	1.04 0.85	43,667 51,022	1.64 1.59	2,828 3,004	1.73 1.73	7,389 6,530
	of	which:	collater	alised lo	ans ¹¹											
2017 May June	1.61 1.55	8,671 11,011	:		2.06 1.85	545 632	2.54 2.60	191 150	1.70 1.75	401 444	1.45 1.44	4,558 6,484	2.04 1.64	646 625	1.63 1.66	2,330 2,676
July Aug Sep	1.52 1.47 1.52	9,023 9,188 9,811			1.78 1.99 1.83	661 480 535	2.46 2.39 2.50	155 153 132	1.77 1.69 1.77	415 431 351	1.34 1.30 1.41	5,050 4,961 5,743	1.74 1.94 1.64	464 560 370	1.68 1.50 1.62	2,278 2,603 2,680
Oct Nov Dec	1.46 1.60 1.59	9,398 8,531 13,235			1.90 1.95 1.92	557 545 627	2.61 2.41 2.65	131 147 167	1.77 1.74 1.75	349 414 426	1.25 1.40 1.44	5,480 5,212 7,644	2.19 2.68 2.33	304 423 1,098	1.64 1.74 1.56	2,577 1,790 3,273
2018 Jan Feb Mar	1.53 1.55 1.62	7,387 6,461 11,118			1.92 1.96 1.92	627 428 608	2.36 2.77 2.46	148 134 160	1.90 1.79 1.78	426 324 396	1.32 1.30 1.44	4,529 3,638 6,583	1.93 1.54 1.68	357 457 1,010	1.73 1.88 1.93	1,300 1,480 2,361
Apr May	1.57	8,174 7,424			1.91 1.93	620 540	2.50 2.47	152 158	1.83 1.77	434 354	1.26 1.38	4,155 4,223	2.07 1.82	764 638	1.77 1.92	2,049 1,511

For footnotes * and 1 to 6, see p 44°. For footnotes + and 7 to 10, see p 45°. 11 For the purposes of the interest rate statistics, a loan is considered to be secured if collateral (among others financial collateral, real estate collateral, debt securities) in at least the same value as the loan amount has been posted, pledged or assigned. 12 Including revolving loans which have all the following features: (a) the borrower may use or withdraw the funds to a pre-approved credit limit without giving prior notice to the lender; (b) the amount of available credit can increase and decrease as funds are borrowed and repaid; (c) the loan may be used repeatedly;

(d) there is no obligation of regular repayment of funds. 13 Overdrafts are defined as debit balances on current accounts. They include all bank overdrafts regardless of whether they are within or beyond the limits agreed between customers and the bank. 14 Including convenience and extended credit card debt. Convenience credit is defined as the credit granted at an interest rate of 0% in the period between payment transactions effected with the card during one billing cycle and the date at which the debt balances from this specific billing cycle become due. 15 The amount category refers to the single loan transaction considered as new business.

VII Insurance corporations and pension funds

1 Assets

€ billion

End of		Currency and	Debt		Shares and	Investment fund	Financial	Insurance technical	Non-financial	Remaining
year/quarter	Total	deposits 2	securities	Loans 3	other equity	shares/units	derivatives	reserves	assets	assets
	Insurance co	•								
2015	1,954.1	344.4	344.7	278.9	228.7	578.3	4.5	71.9	51.8	50.8
2016 Q1 Q2	2,007.8 2,034.6	343.6 336.1	374.1 395.8	280.2 281.9	230.0 229.6	596.3 607.7	5.2 4.8	73.7 73.5	53.1 53.2	51.7 52.0
2016 Q3 1 Q4	2,219.9 2,190.1	378.7 361.5	397.3 371.3	387.3 374.6	280.2 308.6	613.9 623.6	5.3 3.3	46.1 44.1	31.4 32.4	79.9 70.6
2017 Q1 Q2	2,189.3 2,177.9	355.4 343.9	377.5 378.8	367.6 365.2	297.7 301.9	635.7 643.7	2.8 3.1	50.4 49.1	32.5 32.6	69.7 59.6
Q3	2,187.4 2,211.6	331.1 320.8	386.0 386.9	370.9	305.5	650.3 671.1	3.1 2.9	49.5 48.2	32.7 34.3	58.3 57.3
Q4 2018 Q1	2,211.0	343.8	395.0	354.2 325.6	336.1 343.1		2.3	50.6	I .	58.4
·	Life insur									
2015	1,063.7	219.7	169.8	158.0	34.9	414.6	2.2	16.3	30.7	17.4
2016 Q1 Q2	1,095.7 1,116.7	219.1 214.5	187.0 201.7	159.2 160.7	35.3 35.6	428.0 438.0	2.5 2.4	15.6 14.9	31.9 32.0	17.2 16.9
2016 Q3 1 Q4	1,247.0 1,197.3	242.9 231.3	203.0 182.7	241.2 223.0	47.0 50.7	445.8 456.9	4.0 2.1	10.2 9.6	18.7 19.1	34.0 21.9
2017 Q1 Q2	1,170.4 1,172.7	223.8 215.6	185.3 189.4	217.2 217.6	37.2 38.6	462.6 467.1	1.8 2.0	8.2 8.0	19.1 19.1	15.3 15.3
Q3	1,177.4	207.6 199.1	193.5 192.4	220.6 226.0	38.4 41.3	472.4 487.6	1.9 1.8	7.9	19.1 19.9	16.0 16.0
Q4 2018 Q1	1,192.7 1,185.2	212.6	192.4	205.5	43.0	479.9	1.0	8.6 8.5	l .	15.5
	Non-life i	nsurance								
2015	511.0	113.9	97.6	55.6	48.5	134.8	1.3	32.9	14.5	11.9
2016 Q1 Q2	527.6 532.8	113.2 109.4	108.2 113.6	55.5 55.8	49.6 49.3	140.6 144.5	1.5 1.4	32.8 32.8	14.5 14.4	11.8 11.7
2016 Q3 1	592.3 584.2	123.8 118.9	103.2 98.9	93.6 91.8	50.8 56.8	154.4 152.5	0.5 0.5	28.5 26.8	8.6 9.0	28.8 29.0
Q4 2017 Q1	606.5	120.2	102.4	92.0	56.9	157.3	0.3	34.0	9.1	34.2
Q2 Q3	603.3 602.5	116.7 111.8	103.9 106.2	91.2 92.9	58.5 58.5	160.3 162.8	0.4 0.4	33.2 32.5	9.1 9.2	30.1 28.4
Q4	606.6	111.5	108.0	82.2	70.8	165.9	0.4	31.4	9.7	26.5
2018 Q1	622.3	120.0	112.3	75.0	72.3	166.8	0.3	34.5	9.8	31.4
2015	Reinsurar 379.4		77.3	65.3	145.4	28.9	1.1	22.7	6.5	21.4
2015 2016 Q1	379.4	11.2	77.5	64.0	145.4	27.3	1.1	20.4	6.4	21.4
Q2	373.7	11.9	79.8	62.8	144.8	25.8	1.0	18.8	6.4	22.4
2016 Q3 1 Q4	380.7 408.6	12.0 11.3	91.0 89.7	52.5 59.7	182.3 201.0	13.8 14.3	0.8 0.7	7.3 7.7	4.0 4.3	17.0 19.7
2017 Q1	412.5	11.4	89.8	58.4	203.6	15.9	0.8	8.1	4.3	20.2
Q2 Q3	401.9 407.5	11.6 11.7	85.5 86.3	56.5 57.5	204.8 208.6	16.3 15.1	0.8 0.9	7.9 9.2	4.4 4.4	14.2 13.9
Q4 2018 Q1	412.3 407.2	10.2 11.2	86.5 83.1	45.9 45.0	223.9 227.8	17.6 15.3	0.7	8.2 7.6	4.7	14.7 11.6
2016 Q1	Pension fun		03.11	45.0	227.0	15.5	0.0	7.0	4.0	11.0
2015	579.5	us ³ 145.5	60.2	28.8	19.1	268.5	l -I	5.4	31.5	20.4
2016 Q1	588.8	143.1	66.0	29.0	19.4	273.4	_	5.5	31.9	20.5
Q2 Q3	601.7 611.6	142.7 144.4	69.1 69.2	29.2 29.3	20.0 20.1	281.9 289.0		5.5 5.6	32.5 33.2	20.7 20.9
Q4	613.5	144.7	67.8	29.8	20.6	288.9	-	5.7	34.5	21.4
2017 Q1 Q2	619.9 623.7	146.2 143.7	66.1 69.0	30.3 30.7	21.2 21.4	293.9 295.3	- -	5.8 6.8	34.9 35.3	21.6 21.5
Q3 Q4	632.5 653.4	141.8 136.4	70.7 74.0	30.8 31.1	21.7 24.6	303.3 318.1	- -	6.9 7.0	35.5 39.5	21.8 22.7
2018 Q1	654.0			31.5	25.3		_	7.1	I .	

¹ Data as of 2016 Q3 are based on Solvency II supervisory data, valuation of listed securities at the corresponding consistent price from the ESCB's securities database. Figures from 2016 Q3 on have been revised. Up to and including 2016 Q2 data are based on Solvency I supervisory data from the Federal Financial Supervisory Authority (BaFin), supplemented by estimates and own calculations. 2 Accounts receivable to monetary financial institutions, including registered bonds, borrowers' note loans and registered Pfandbriefe. 3 Including deposits retained on assumed reinsurance as

well as registered bonds, borrowers' note loans and registered Pfandbriefe. 4 Not including the reinsurance business conducted by primary insurers, which is included there. 5 The term "pension funds" refers to the institutional sector "pension funds" of the European System of Accounts. Pension funds thus comprise company pension schemes and occupational pension schemes for the self-employed. Social security funds are not included.

VII Insurance corporations and pension funds

2 Liabilities

€ billion

	C 5									
					Insurance technic	cal reserves				
								1		
		Debt				Life/ Claims on				
End of year/quarter	Total	securities issued	Loans 2	Shares and other equity	Total	pension fund reserves 3	Non-life 4	Financial derivatives	Remaining liabilities	Net worth 7
)q	Insurance co		1	2				1		
2015	1,954.1	-	91.7	214.8	1,474.7	1 160 6	314.1	0.0	70.2	84.4
2015 2016 Q1	2,007.8	17.7	92.9	214.6	1,501.0	1,160.6 1,179.8	321.2	0.0	71.5	104.3
Q2	2,034.6	17.6	93.0	191.1	1,508.4	1,188.4	320.1	0.0	71.6	152.9
2016 Q3 1 Q4	2,219.9 2,190.1	30.7 30.7	73.7 70.3	383.0 441.0	1,579.4 1,494.4	1,396.9 1,313.3	182.5 181.1	1.5 2.3	151.5 151.4	-
2017 Q1	2,189.3	30.5	57.2	448.5	1,511.7 1,505.2	1,309.5 1,308.4	202.2	1.8	139.5	-
Q2 Q3	2,177.9 2,187.4	28.6 28.5	57.0 58.4	450.7 455.4	1,505.2 1,512.8	1,308.4 1,317.1	196.8 195.7	2.1 2.3	134.3 130.1	
Q4	2,211.6	28.3	62.6	465.9	1,521.1	1,333.7	187.4	2.2	131.6	-
2018 Q1	2,214.7	28.0	61.8	460.1	1,536.5	1,331.3	205.2	1.5	126.7	-
	Life insur		_	_		_	_	_	_	
2015	1,063.7	0.0	1	24.6	926.0		15.0	0.0		57.7
2016 Q1 Q2	1,095.7 1,116.7	0.0 0.0	26.0 27.8	23.6 22.3	938.7 943.1	923.4 927.8	15.2 15.3	0.0 0.0	30.7 30.2	76.8 93.3
2016 Q3 1 Q4	1,247.0 1,197.3	3.8 4.1	25.9 25.0	96.0 116.3	1,066.2 993.7	1,066.2 993.7	_	0.7 1.2	54.4 56.9	-
2017 Q1	1,170.4	4.1	12.5	116.3	991.7	991.7	_	0.9	44.8	_
Q2 Q3	1,172.7 1,177.4	4.0 4.1	12.1 12.3	119.8 121.5	989.5 993.9	989.5 993.9	- -	1.0 1.1	46.2 44.5	-
Q4	1,192.7	4.1	12.8	122.2	1,006.6	1,006.6	_	1.1	45.9	_
2018 Q1	1,185.2	4.0	13.3	119.6	1,005.0	1,005.0	-	0.7	42.6	-
	Non-life i	nsurance								
2015	511.0	0.0	1	63.7	390.5	249.6	140.9	0.0		25.5
2016 Q1 Q2	527.6 532.8	0.0 0.0	14.6 14.5	62.0 57.7	399.6 401.6	253.8 256.8	145.9 144.9	0.0 0.0	17.5 17.2	33.9 41.9
2016 Q3 1 Q4	592.3 584.2	0.9 1.1	6.6 6.3	120.0 130.4	407.4 390.1	310.1 300.5	97.3 89.7	0.0 0.2	57.3 56.2	-
2017 Q1	606.5	1.1	7.3	134.0	408.9	300.8	108.2	0.1	55.0	-
Q2 Q3	603.3 602.5	1.1 1.1	6.8 6.9	135.6 137.3	406.7 406.6	302.4 305.7	104.2 100.9	0.1 0.1	53.0 50.6	-
Q4	606.6	1.1	6.7	141.2	405.6	309.7	95.9	0.1	51.9	-
2018 Q1	622.3	1.1	7.7	141.2	422.5	310.9	111.5	0.0	49.8	-
	Reinsurar									
2015	379.4	18.3	l	124.8	158.2	-	158.2	0.0		2.8
2016 Q1 Q2	376.0 373.7	17.7 17.6	52.5 51.7	118.3 111.2	157.3 156.6	_	157.3 156.6	0.0 0.0	22.5 22.9	7.7 13.6
2016 Q3 1 Q4	380.7 408.6	26.0 25.5	41.3 39.0	167.0 194.3	105.8 110.5	20.5 19.1	85.3 91.4	0.8 0.9	39.8 38.3	-
2017 Q1	412.5 401.9	25.3 23.5	37.4 38.1	198.2 195.2		17.0 16.4	94.1	0.8	39.7 35.0	_
Q2 Q3	401.9 407.5	23.5 23.3	38.1 39.3	195.2 196.6	111.1 109.1 112.3	16.4 17.5	92.6 94.8	1.1 1.1	35.0 35.0	-
Q4	412.3	23.1	43.1	202.6	108.8	17.4	91.4	1.0		-
2018 Q1	407.2		40.8	199.3	109.0	15.4	93.7	0.8	34.4	-
	Pension fun	ds 6								
2015	579.5	-	4.9	11.3	518.3			-	6.1	
2016 Q1 Q2	588.8 601.7	- -	5.0 5.0	11.4 10.0	522.7 529.6	522.2 529.1	0.5 0.5	_	5.8 5.8	44.1 51.3
Q3 Q4	611.6 613.5	- -	5.1 5.2	10.3 11.3	535.2 544.7	535.2 544.7		-	5.8 6.0	55.3 46.4
2017 Q1	619.9	_	5.2	11.9	552.4	552.4	_] _	6.0	44.3
Q2	623.7	-	6.1	11.6	554.3	554.3	-	-	6.2	45.5 49.7
Q3 Q4	632.5 653.4	- -	6.3 6.4	11.6 11.9	561.5 578.6	561.5 578.6	- -] -	3.5 3.5	49.7 52.9
2018 Q1	654.0	_	6.5	11.7	581.8	581.8	-	-	3.6	50.5

¹ Data as of 2016 Q3 are based on Solvency II supervisory data. Figures from 2016 Q3 on have been revised. Up to and including 2016 Q2 data are based on Solvency I supervisory data from the Federal Financial Supervisory Authority (BaFin), supplemented by estimates and own calculations. 2 Including deposits retained on ceded business as well as registered bonds, borrowers' note loans and registered Pfandbriefe. 3 As of 2016 Q3 insurance technical reserves "life" pursuant to Solvency II taking account of transitional measures. Up to and including 2016 Q2: Long-term net equity of households in life insurance (including ageing provisions of health insurance schemes and premium reserves of accident insurance schemes with guaranteed premi-

um refund) and pension fund reserves pursuant to ESA 1995. **4** As of 2016 Q3 insurance technical reserves "non-life" pursuant to Solvency II. Up to and including 2016 Q2 unearned premiums and reserves for outstanding claims pursuant to ESA 1995. **5** Not including the reinsurance business conducted by primary insurers, which is included there. **6** The term "pension funds" refers to the institutional sector "pension funds" of the European System of Accounts. Pension funds thus comprise company pension schemes and occupational pension schemes for the self-employed. Social security funds are not included. **7** Own funds correspond to the sum of net worth and the liability item "Shares and other equity".

VIII Capital market

1 Sales and purchases of debt securities and shares in Germany

€ million

	CIIIIII																					
	Debt s	securities																				
			Sales										Purch	iases								
			Dom	estic debt	secur	ities 1							Resid	ents								
Period	Sales = total pur- chases	5	Total		Bank debt secu		bond	orate s MFIs) 2	Public debt secur- ities		Foreign debt secur- ities 3		Total	4	Credi stituti includ buildi and la	ons ling ng	Deuts Bunde	sche esbank	Other sector		Non- reside	nts 7
2006 2007 2008 2009		242,006 217,798 76,490 70,208	_	102,379 90,270 66,139 538	 - -	40,995 42,034 45,712 114,902		8,943 20,123 86,527 22,709		52,446 28,111 25,322 91,655	1	39,627 27,528 10,351 70,747	_	125,423 26,762 18,236 90,154		68,893 96,476 68,049 12,973		8,645	 - -	56,530 123,238 49,813 77,181	_	116,583 244,560 58,254 19,945
2010 2011 2012 2013 2014	_	146,620 33,649 51,813 15,969 64,774	- - -	1,212 13,575 21,419 101,616 31,962	- - - -	7,621 46,796 98,820 117,187 47,404	-	24,044 850 8,701 153 1,330	-	17,635 59,521 86,103 15,415 16,776		47,831 20,075 73,231 85,646 96,737	- -	92,682 23,876 3,767 16,409 50,409	- - - -	103,271 94,793 42,017 25,778 12,124	- - -	22,967 36,805 3,573 12,708 11,951		172,986 34,112 41,823 54,895 74,484	_	53,938 57,526 55,580 32,380 14,366
2015 2016 2017		32,609 72,270 54,930	-	36,010 27,429 11,563	-	65,778 19,177 1,096		26,762 18,265 7,112	-	3,006 10,012 3,356		68,620 44,840 43,368		119,379 174,162 145,410	- - -	66,330 58,012 71,454		121,164 187,500 161,012		64,546 44,674 55,852	- - -	86,770 101,894 90,477
2017 July Aug Sep	-	7,748 13,342 13,756	- -	17,251 12,771 18,254	- - -	7,196 1,814 8,577	 - -	8,174 1,581 3,456	-	18,228 16,166 6,221		9,503 571 4,497		9,578 6,897 1,838	- - -	6,471 8,730 8,357		11,565 9,902 12,865	_	4,484 5,725 2,670	- -	17,325 6,445 15,594
Oct Nov Dec	- -	12,129 28,537 20,490	- -	10,152 22,066 18,944	- -	9,775 893 5,802	- -	2,760 6,338 952	_	2,383 14,835 12,190	- -	1,977 6,471 1,546		9,642 25,664 3,495	-	4,841 3,359 12,058		12,199 13,355 10,057		2,284 8,950 5,496	- -	21,771 2,873 23,985
2018 Jan Feb Mar		14,802 5,636 25,191	_	2,330 5,264 17,065		1,183 12,736 11,318		530 2,054 820	- -	4,043 9,526 4,927		17,132 372 8,125		19,710 1,898 18,942	-	1,164 5,017 1,950		6,138 5,725 7,268		12,408 1,190 9,724	-	4,908 3,738 6,249
Apr May	-	9,403 20,788	-	12,541 20,327	-	469 6,728		7,199 2,570	-	19,271 11,028		3,138 462		8,824 1,330		2,582 1,553		5,172 7,676	_	6,234 4,793		18,228 19,459

€ million

	€ IIIIIIOII								
	Shares								
			Sales		Purchases				
	Sales				Residents				
Period	= total purchases		Domestic shares 8	Foreign shares 9	Total 10	Credit institutions 5	Other sectors 11	Non- residents 12	
2006 2007 2008 2009		26,276 5,009 29,452 35,980	9,061 10,053 11,326 23,962	17,214 - 15,062 - 40,778 12,018	7,528 - 62,308 2,743 30,496	11,323 - 6,702 - 23,079 - 8,335	- 3,795 - 55,606 25,822 38,831		18,748 57,299 32,194 5,484
2010 2011 2012 2013 2014		37,767 25,833 15,061 20,187 43,501	20,049 21,713 5,120 10,106 18,778	17,719 4,120 9,941 10,081 24,723	36,406 40,804 14,405 17,336 43,950	7,340 670 10,259 11,991 17,203	29,066 40,134 4,146 5,345 26,747	 - -	1,361 14,971 656 2,851 449
2015 2016 2017		40,488 33,491 48,645	7,668 4,409 15,570	32,820 29,082 33,075	30,568 31,261 47,482	- 5,421 - 5,143 7,031	35,989 36,404 40,451		9,920 2,230 1,163
2017 July Aug Sep		2,889 2,276 5,766	509 155 1,482	2,380 2,121 4,284	4,140 4,782 4,296	- 690 - 603 - 1,738	4,830 5,385 6,034	- -	1,251 2,506 1,470
Oct Nov Dec		2,242 3,310 13,617	572 110 484	1,670 3,200 13,133	- 535 4,121 15,596	735 1,198 2,898	- 1,270 2,923 12,698	 - -	2,777 811 1,979
2018 Jan Feb Mar	_	7,746 15,184 939	153 1,122 1,023	7,593 14,062 – 1,962	9,297 15,596 – 7,256	867 - 3,709 - 3,672	8,430 19,305 – 3,584	- -	1,551 412 6,317
Apr May	_	2,843 1,942	3,219 1,175	– 376 – 3,117	– 33 – 2,496	– 2,546 1,156	2,513 – 3,652		2,876 554

¹ Net sales at market values plus/minus changes in issuers' portfolios of their own debt securities. 2 Including cross-border financing within groups from January 2011.
3 Net purchases or net sales (–) of foreign debt securities by residents; transaction values. 4 Domestic and foreign debt securities. 5 Book values; statistically adjusted. 6 Residual; also including purchases of domestic and foreign securities by domestic mutual funds. Up to end-2008, data comprise Deutsche Bundesbank. 7 Net purchases or net sales (–) of domestic debt securities by non-residents; transaction

values. **8** Excluding shares of public limited investment companies; at issue prices. **9** Net purchases or net sales (–) of foreign shares (including direct investment) by residents; transaction values. **10** Domestic and foreign shares. **11** Residual; also including purchases of domestic and foreign securities by domestic mutual funds. **12** Net purchases or net sales (–) of domestic shares (including direct investment) by non-residents; transaction values. — The figures for the most recent date are provisional; revisions are not specially marked.

2 Sales of debt securities issued by residents *

	€ million nominal value							
		Bank debt securities 1						
Devied	T-1-1	Total	Mortgage	Public	Debt securities issued by special purpose credit	Other bank	Corporate bonds	Public
Period	Total	Total	Pfandbriefe	Pfandbriefe	institutions	debt securities	(non-MFIs) 2	debt securities
	Gross sales 3							
2006	925,863	622,055	24,483	99,628	139,193	358,750	29,975	273,834
2007	1,021,533	743,616	19,211	82,720	195,722	445,963	15,043	262,872
2008	1,337,337	961,271	51,259	70,520	382,814	456,676	95,093	280,974
2009	1,533,616	1,058,815	40,421	37,615	331,566	649,215	76,379	398,423
2010	1,375,138	757,754	36,226	33,539	363,828	324,160	53,654	563,731
2011	1,337,772	658,781	31,431	24,295	376,876	226,180	86,615	592,376
2012	1,340,568	702,781	36,593	11,413	446,153	208,623	63,259	574,529
2013	1,433,628	908,107	25,775	12,963	692,611	176,758	66,630	458,891
2014	1,362,056	829,864	24,202	13,016	620,409	172,236	79,873	452,321
2015	1,359,422	852,045	35,840	13,376	581,410	221,417	106,676	400,700
2016 4	1,206,483	717,002	29,059	7,621	511,222	169,103	73,370	416,110
2017 4	1,047,822	619,199	30,339	8,933	438,463	141,466	66,289	362,333
2017 Oct	91,104	50,410	2,420	1,150	34,514	12,326	5,299	35,396
Nov	84,080	37,055	1,823	340	22,871	12,021	11,681	35,345
Dec 4	59,026	33,899	1,727	1,727	17,999	12,446	6,113	19,014
2018 Jan	92,293	59,191	3,459	1,002	42,821	11,910	3,144	29,958
Feb	96,820	59,349	3,387	564	43,208	12,189	3,434	34,036
Mar	100,288	58,524	3,781	1,229	44,183	9,331	6,202	35,561
Apr	123,774	67,848	1,487	97	58,169	8,094	27,752	28,175
May	97,205	61,722	3,459	63	46,110	12,089	5,306	30,178
	of which: Debt se	ecurities with ma	turities of mor	e than four yea	ars 5			
2006 2007	337,969 315,418	183,660	17,267 10,183	47,814 31,331	50,563	91,586	14,422 13,100	132,711 118,659
2008 2009 2010	387,516 361,999 381,687	190,698 185,575	13,186 20,235	31,393 20,490 15,139	54,834 59,809 72,796	91,289 85,043 65,769	84,410 55,240 34,649	112,407 121,185 177,863
2010 2011 2012 2013 2014	368,039 421,018 372,805 420,006	169,174 153,309 177,086 151,797 157,720	15,469 13,142 23,374 16,482 17,678	8,500 6,482 10,007 8,904	72,796 72,985 74,386 60,662 61,674	58,684 72,845 64,646 69,462	41,299 44,042 45,244 56,249	177,863 173,431 199,888 175,765 206,037
2015	414,593	179,150	25,337	9,199	62,237	82,379	68,704	166,742
2016 4	375,859	173,900	24,741	5,841	78,859	64,460	47,818	154,144
2017 4	357,506	170,357	22,395	6,447	94,852	46,663	44,891	142,257
2017 Oct	31,980	14,680	2,129	1,145	7,480	3,926	2,837	14,463
Nov	35,497	12,555	1,528	320	6,294	4,413	8,990	13,952
Dec 4	18,711	8,098	420	1,607	2,704	3,368	4,821	5,791
2018 Jan	37,248	26,777	2,697	967	19,026	4,087	1,626	8,845
Feb	27,037	11,485	2,917	254	4,196	4,118	2,194	13,358
Mar	40,145	18,509	3,400	1,080	11,579	2,450	4,095	17,542
Apr	49,383	12,888	1,187	22	8,840	2,839	25,454	11,040
May	24,413	11,107	2,333	63	5,804	2,906	3,425	9,881
	Net sales 6							
2006	129,423	58,336	- 12,811	- 20,150	44,890	46,410	15,605	55,482
2007	86,579	58,168	- 10,896	- 46,629	42,567	73,127	- 3,683	32,093
2008	119,472	8,517	15,052	- 65,773	25,165	34,074	82,653	28,302
2009	76,441	- 75,554	858	- 80,646	25,579	– 21,345	48,508	103,482
2010	21,566	- 54,582	- 3,754	- 63,368	28,296	- 48,822	23,748	85,464
2011	22,518		1,657	- 44,290	32,904	- 44,852	- 3,189	80,289
2012	– 85,298		- 4,177	- 41,660	- 3,259	- 51,099	- 6,401	21,298
2013	– 140,017		- 17,364	- 37,778	- 4,027	- 66,760	1,394	– 15,479
2014	– 34,020		- 6,313	- 23,856	- 862	- 25,869	10,497	12,383
2015	- 65,147	77,273	9,271	- 9,754	- 2,758	- 74,028	25,300	- 13,174
2016 4	21,951	10,792	2,176	- 12,979	16,266	5,327	18,177	- 7,020
2017 4	2,669	5,954	6,389	- 4,697	18,788	- 14,525	6,828	- 10,114
2017 Oct Nov Dec 4	- 1,501 22,681 - 28,202	179 - 24	1,342 444 – 1,367	229 123 – 329	- 1,165 - 1,471 - 7,519	- 227 880 - 7,609	- 1,952 6,842 - 469	272 15,863 – 10,909
2018 Jan	- 8,981	3,064	1,643	- 998	3,302	- 883	21	- 12,067
Feb	1,784	10,154	544	143	10,663	- 1,196	1,225	- 9,596
Mar	14,572	9,345	2,792	751	8,127	- 2,326	– 428	5,655
Apr	– 15,565	751	50	- 639	3,478	- 2,138	5,636	- 21,952
May	21,542	8,519	3,037	- 1,827	5,950	1,358	1,258	11,765

^{*} For definitions, see the explanatory notes in the Statistical Supplement 2 Capital market statistics on p 21 ff. 1 Excluding registered bank debt securities. 2 Including cross-border financing within groups from January 2011. 3 Gross sales means only

initial sales of newly issued securities. **4** Sectoral reclassification of debt securities. **5** Maximum maturity according to the terms of issue. **6** Gross sales less redemptions.

VIII Capital market

3 Amounts outstanding of debt securities issued by residents *

€ million nominal value

		Bank debt securities						
End of year or month/ Maturity in years	Total	Total	Mortgage Pfandbriefe	Public Pfandbriefe	Debt securities issued by special purpose credit institutions	Other bank debt securities	Corporate bonds (non-MFIs)	Public debt securities
2006	3,044,145	1,809,899	144,397	499,525	368,476	797,502	99,545	1,134,701
2007	3,130,723	1,868,066	133,501	452,896	411,041	870,629	95,863	1,166,794
2008	3,250,195	1,876,583	150,302	377,091	490,641	858,550	178,515	1,195,097
2009	3,326,635	1,801,029	151,160	296,445	516,221	837,203	227,024	1,298,581
2010 2011 2012 2013 2014	3,348,201 3,370,721 3,285,422 3,145,329 3,111,308	1,515,911	147,529 149,185 145,007 127,641 121,328	232,954 188,663 147,070 109,290 85,434	544,517 577,423 574,163 570,136 569,409	600,640	250,774 247,585 1 220,456 221,851 232,342	1,607,226
2015	3,046,162	1,154,173	130,598	75,679	566,811	381,085	257,612	1,634,377
2016 1	3,068,111	1,164,965	132,775	62,701	633,578	335,910	275,789	1,627,358
2017 1	3,090,708	1,170,920	141,273	58,004	651,211	320,432	2 302,543	1,617,244
2017 Nov	3,118,910	1,187,744	142,640	58,333	660,338	326,433	303,012	1,628,153
Dec	3,090,708	1,170,920	141,273	58,004	1 651,211	1 320,432	302,543	1,617,244
2018 Jan	3,081,726	1,173,984	142,916	57,006	654,514	319,549	302,565	1,605,177
Feb	3,083,510	1,184,139	143,460	57,149	665,177	318,354	303,790	1,595,582
Mar	3,098,082	1,193,483	146,252	57,900	673,304	316,027	303,362	1,601,237
Apr	3,082,517	1,194,234	146,302	57,260	676,782	313,889	308,998	1,579,285
May	3,104,059	1,202,753	149,339	55,434	682,732	315,248	310,256	1,591,050
	Breakdown by r	emaining period	to maturity 3			Positi	ion at end-May 2	2018
less than 2	117,275	465,728	42,997	22,390	294,951	105,392	63,192	502,293
2 to less than 4		270,538	36,776	11,447	151,397	70,919	50,652	291,391
4 to less than 6		172,661	29,190	7,557	91,950	43,965	40,367	243,796
6 to less than 8		127,819	21,621	6,513	70,302	29,384	33,422	175,129
8 to less than 10		78,407	14,811	4,821	36,399	22,376	14,639	144,614
10 to less than 15		34,616	2,735	1,105	17,236	13,540	24,336	58,323
15 to less than 20		19,452	424	1,153	13,910	3,966	6,250	55,852
20 and more		33,533	788	448	6,588	25,708	77,401	119,651

^{*} Including debt securities temporarily held in the issuers' portfolios. 1 Sectoral reclassification of debt securities. 2 Increase due to change in issuers' country of residence. 3 Calculated from month under review until final maturity for debt

securities falling due en bloc and until mean maturity of the residual amount outstanding for debt securities not falling due en bloc.

4 Shares in circulation issued by residents *

€ million nominal value

			Change in dome							
Period	Share capital = circulation at end of period under review	Net increase or net decrease (–) during period under review		issue of bonus shares	contribution of claims and other real assets	contribution of shares, GmbH shares, etc	merger and transfer of assets	change of legal form	reduction of capital and liquidation	Memo item Share circulation at market values (market capita- lisation) level at end of period under review 2
2006 2007 2008 2009	163,764 164,560 168,701 175,691	695 799 4,142 6,989	2,670 3,164 5,006 12,476	3,347 1,322 1,319 398	604 200 152 97	954 269 0 -	- 1,868 - 682 - 428 - 3,741	- 1,256 - 1,847 - 608 - 1,269	- 1,636 - 1,306	1,279,638 1,481,930 830,622 927,256
2010 2011 2012 2013 2014	174,596 177,167 178,617 171,741 177,097	- 1,096 2,570 1,449 - 6,879 5,356	6,390 3,046 2,971	497 552 129 718 1,265	178 462 570 476 1,714	10 9 - -	- 486 - 552 - 478 - 1,432 - 465	- 993 - 762 594 - 619 - 1,044	- 3,532 - 2,411 - 8,992	1,091,220 924,214 1,150,188 1,432,658 1,478,063
2015	177,416	319	4,634	397	599	-	- 1,394	- 1,385		1,614,442
2016	176,355	- 1,062	3,272	319	337	-	- 953	- 2,165		1,676,397
2017	178,828	2,471	3,894	776	533	-	- 457	- 661		1,933,733
2017 Nov	179,426	132	109	_	_	_	0	58	- 35	1,947,204
Dec	178,828	- 598	128	_	1	_	- 140	- 363	- 224	1,933,733
2018 Jan	178,752	- 75	102	–	1	-	0	- 118	- 66	1,981,815
Feb	179,778	1,026	1,094	7	19	-	0	- 28		1,887,325
Mar	180,086	308	553	24	2	-	0	- 239		1,874,136
Apr	180,359	273	239	64	11	_	- 5	- 1	- 36	1,939,502
May	179,930	- 429	142	18	5	_	- 548	- 10	- 36	1,929,120

^{*} Excluding shares of public limited investment companies. 1 Including shares issued out of company profits. 2 All marketplaces. Source: Bundesbank calculations based

VIII Capital market

5 Yields and indices on German securities

	Yields on debt	t securities outst	anding issued b	y residents 1				Price indices 2,3					
		Public debt sec	urities		Bank debt secu	rities		Debt securities		Shares			
			Listed Federal securit	ies									
	Total Total		With a residual maturity of 9 and including Total 10 years 4		more than 9 bo		Corporate bonds (non- MFls)	German bond index (REX)	iBoxx € Germany price index	CDAX share price index	German share index (DAX)		
Period	% per annum							Average daily rate	End-1998 = 100	End-1987 = 100	End-1987 = 1000		
2005 2006 2007 2008 2009	3.1 3.8 4.3 4.2 3.2	3.2 3.7 4.3 4.0 3.1	3.2 3.7 4.2 4.0 3.0	3.4 3.8 4.2 4.0 3.2	3.1 3.8 4.4 4.5 3.5	3.5 4.0 4.5 4.7 4.0	3.7 4.2 5.0 6.3 5.5	120.92 116.78 114.85 121.68 123.62	101.09 96.69 94.62 102.06 100.12	335.59 407.16 478.65 266.33 320.32	5,408.26 6,596.92 8,067.32 4,810.20 5,957.43		
2010 2011 2012 2013 2014	2.5 2.6 1.4 1.4 1.0	2.4 2.4 1.3 1.3 1.0	2.4 2.4 1.3 1.3	2.7 2.6 1.5 1.6 1.2	2.7 2.9 1.6 1.3 0.9	3.3 3.5 2.1 2.1 1.7	4.0 4.3 3.7 3.4 3.0	124.96 131.48 135.11 132.11 139.68	102.95 109.53 111.18 105.92 114.37	368.72 304.60 380.03 466.53 468.39	6,914.19 5,898.35 7,612.39 9,552.16 9,805.55		
2015 2016 2017	0.5 0.1 0.3	0.4 0.0 0.2	0.4 0.0 0.2	0.5 0.1 0.3	0.5 0.3 0.4	1.2 1.0 0.9	2.4 2.1 1.7	139.52 142.50 140.53	112.42 112.72 109.03	508.80 526.55 595.45	10,743.01 11,481.06 12,917.64		
2018 Jan Feb Mar	0.5 0.6 0.5	0.4 0.5 0.4	0.4 0.5 0.4	0.5 0.7 0.5	0.6 0.7 0.7	0.9 1.2 1.0	1.8 2.1 2.1	139.19 139.24 140.36	107.24 107.33 108.53	608.72 577.02 561.97	13,189.48 12,435.85 12,096.73		
Apr May June	0.5 0.5 0.4	0.4 0.4 0.3	0.4 0.3 0.2	0.5 0.5 0.3	0.6 0.6 0.6	1.0 1.0 1.0	2.3 2.3 2.4	139.85 141.11 141.29	108.02 109.76 109.87	579.61 572.08 557.27	12,612.11 12,604.89 12,306.00		

¹ Bearer debt securities with maximum maturities according to the terms of issue of over 4 years if their mean residual maturities exceed 3 years. Convertible debt securities, etc. debt securities with unscheduled redemption, zero-coupon bonds, floating-rate notes and bonds not denominated in euro are not included. Group yields for the various categories of securities are weighted by the amounts outstan-

ding of the debt securities included in the calculation. Monthly figures are calculated on the basis of the yields on all the business days in a month. The annual figures are the unweighted means of the monthly figures. **2** End of year or month. **3** Source: Deutsche Börse AG. **4** Only debt securities eligible as underlying instruments for futures contracts; calculated as unweighted averages.

6 Sales and purchases of mutual fund shares in Germany

€	mil	llion

		Sales							Purchases							_	
		Open-end o	lomestic mut	ual funds 1	(sales receip	ts)			Residents								
			Mutual fund general pub		ne					inclu	lit institu Iding bui loan asso	lding	s 2	Other secto	_{rs} 3		
Period	Sales = total pur- chases	Total	Total	of which Money market funds	Secur- ities- based funds	Real estate funds	Special- ised funds	Foreign funds 4	Total	Tota	I	of which Foreign mutual fund shares	1	Total	of which Foreign mutual fund shares	Non den	n-resi- ts 5
2007 2008	55,778 2,598	13,436 - 7,911	- 7,872 - 14,409	- 4,839 - 12,171	- 12,848 - 11,149	6,840 799	21,307 6,498	42,342 10,509	51,309 11,315	- -	229 16,625		4,240 9,252	51,538 27,940	38,102 19,761	_	4,469 8,717
2009 2010 2011 2012 2013	49,929 106,190 46,512 111,236 123,736	43,747 84,906 45,221 89,942 91,337	10,966 13,381 - 1,340 2,084 9,184	- 5,047 - 148 - 379 - 1,036 - 574	11,749 8,683 - 2,037 97 5,596	2,686 1,897 1,562 3,450 3,376	32,780 71,345 46,561 87,859 82,153	6,182 21,284 1,291 21,293 32,400	38,132 102,591 39,474 114,676 117,028		14,995 3,873 7,576 3,062 771	_ '	3,178 5,290 694 1,562 100	53,127 98,718 47,050 117,738 116,257	14,361 14,994 1,984 22,855 32,300		11,796 3,598 7,036 3,438 6,709
2014 2015 2016 2017	140,233 181,888 155,511 142,669	97,711 146,136 119,369 94,921	3,998 30,420 21,301 29,560	- 473 318 - 342 - 235	862 22,345 11,131 21,970	1,000 3,636 7,384 4,406	93,713 115,716 98,068 65,361	42,522 35,750 36,142 47,747	144,075 174,529 162,429 146,108		819 7,362 2,877 4,938	_ :	1,745 494 3,172 1,048	143,256 167,167 159,552 141,170	44,266 35,257 39,315 46,700	_	3,841 7,357 6,919 3,441
2017 Nov Dec	10,536 15,285	8,591 9,757	2,614 1,665	11 - 7	2,316 585	256 774	5,978 8,092	1,945 5,528	15,290 14,441	- -	43 656	-	285 53	15,333 15,097	2,230 5,475		4,755 844
2018 Jan Feb Mar	24,773 7,429 8,732	15,003 8,628 8,718	6,014 1,860 – 937	- 5 - 22 222	4,152 955 – 1,923	756 520 493	8,989 6,768 9,656	9,771 - 1,199 14	23,890 7,439 11,397	-	876 92 813	- -	713 1,141 239	23,014 7,531 10,584	9,058 - 58 253		883 10 2,666
Apr May	8,430 5,093	8,351 1,859	1,860 1,215	- 66 - 225	1,401 934	223 275	6,491 644	80 3,234	11,470 5,432		961 1,217		469 732	10,509 4,215	- 389 2,502	-	3,039 339

¹ Including public limited investment companies. 2 Book values. 3 Residual. 4 Net purchases or net sales (–) of foreign fund shares by residents; transaction values. 5 Net purchases or net sales (–) of domestic fund shares by non-residents;

transaction values. — The figures for the most recent date are provisional; revisions are not specially marked.

1 Acquisition of financial assets and external financing of non-financial corporations (non-consolidated)

				2016	2017				2018
n	2015	2016	2017	Q4	Q1	Q2	Q3	Q4	Q1
Acquisition of financial assets									
Currency and deposits	30.9		1		1		l .		
Debt securities short-term debt securities long-term debt securities	- 1.2 - 0.8 - 0.3	4 – 0.58	3 – 2.26	- 0.98 - 0.83 - 0.15	0.23	- 0.65 - 1.89 1.24	- 1.05 - 0.26 - 0.78		-
Memo item Debt securities of domestic sectors Non-financial corporations Financial corporations General government Debt securities of the rest of the world Loans	0.6 - 0.8 1.8 - 0.4 - 1.8 27.1	0 0.67 6 - 2.53 2 - 0.82 3 - 0.72	7 - 0.56 8 - 0.41 9 - 1.82 - 2.85	- 0.54 0.15 - 0.49 - 0.20 - 0.44	0.85 - 0.35 - 1.03	- 0.04 - 0.72 0.67 0.01 - 0.61 5.51	- 1.07 - 0.56 - 0.14 - 0.37 0.02	- 0.59 - 0.43	-
short-term loans long-term loans	34.6 - 7.5	8 2.59	20.00	18.33	14.28	- 0.61 6.11	- 0.45 3.18	6.79	
Memo item to domestic sectors Non-financial corporations Financial corporations General government to the rest of the world Equity and investment fund shares Equity Listed shares of domestic sectors Non-financial corporations Financial corporations Listed shares of the rest of the world	6.2 1.2 4.8 0.1 20.8 54.9 38.5 - 10.4 - 8.0 - 2.3 4.9	66 - 11.78 6.89 9 14.7 0 73.73 0 67.90 0 22.99 4 22.59 6 0.3	9.53 8.27 0.29 21.36 8 48.76 40.21 - 3.82 9 - 3.76 - 0.06		0.23 8.74 0.07 16.38 17.20 18.44 - 4.34 - 4.25 - 0.09	2.88 - 2.97 0.07 5.52 - 0.51 1.68	- 1.43 - 0.28 - 1.22 0.07 4.16 16.00 13.74 1.91 - 0.04 - 5.34	10.49 6.70 3.72 0.07 - 4.70 16.07 6.35 0.65 0.80 - 0.14	- 2 2 2 2
Other equity ¹ Investment fund shares Money market fund shares Non-MMF investment fund shares Insurance technical reserves Financial derivatives	43.9 16.4 0.2 16.1 2.9 – 1.4	5.83 1 0.36 9 5.47 4 1.12	8.55 0.46 9.01 1.00	14.84 2.05 0.79 1.26 0.31 6.53	- 1.24 - 0.28 - 0.96 0.06	0.00	17.16 2.26 – 1.07 3.34 0.43	5.17 9.71 0.89 8.83 0.02 3.75	
Other accounts receivable	41.6	9 – 6.10	102.75	- 7.50	77.37	- 18.66	25.57	18.47	2
Total	154.9	138.45	254.27	64.10	129.98	9.34	46.35	68.60	4
External financing									
Debt securities	7.7	8 23.7	8.56	5.82	7.57	- 0.52	0.96	0.55	
short-term securities long-term securities	1.9 5.8	6 - 0.15	0.60	- 1.79		- 0.42 - 0.10	- 2.62 3.58	- 1.83 2.37	
Memo item Debt securities of domestic sectors Non-financial corporations Financial corporations General government Households Debt securities of the rest of the world Loans	1.7 - 0.8 2.0 0.0 0.4 6.0	0 0.65 5 10.08 2 0.07 2 0.08 8 12.85 5 32.73	7 - 0.56 9.13 0.01 3 - 1.45 7 1.42 8 105.83	3.01 0.00 - 0.06 2.73 - 10.51	0.85 3.19 - 0.01 - 0.71 4.26 49.56	2.08 0.02 - 0.14 - 1.76 12.40	0.78 - 0.56 1.51 0.00 - 0.16 0.17 20.06	2.36 0.00 - 0.42 - 1.25 23.80	-
short-term loans long-term loans Memo item	40.9 13.6					3.21 9.19	8.58 11.48	3.11 20.70	1
from domestic sectors Non-financial corporations Financial corporations General government from the rest of the world Equity	23.9 1.2 29.6 - 6.9 30.6 16.6	6 - 11.78 9 23.43 8 2.80 8 18.28	9.53 49.00 8.94 38.35	- 3.93 - 6.14	0.23 20.15 6.82 22.36	8.41 2.88 5.61 - 0.08 4.00 6.06	11.90 - 0.28 13.97 - 1.78 8.16 5.69	19.96 6.70 9.27 3.99 3.84 2.88	2 - 1
Listed shares of domestic sectors Non-financial corporations Financial corporations General government Households Quoted shares of the rest of the world Other equity 1	7.4 - 8.0 11.7 0.1 3.6 - 1.4	2 27.3° 4 22.5° 0 – 2.1° 1 0.0° 6 6.74 0 – 25.7°	6.93 9 - 3.76 9.53 0 0.51 0 0.65 0 - 2.59	17.00 20.62 - 2.12 - 0.02 - 1.48	- 4.55 - 4.25 - 0.78 0.07 0.41 4.88	2.68 - 2.26 6.21 0.13 - 1.39	3.43 1.96 0.26 0.16 1.05	5.36 0.80 3.83 0.15 0.59 - 4.71	1 2 -
Insurance technical reserves Financial derivatives and employee	5.6						0.90		
stock options Other accounts payable	- 10.8 23.1		1	1	2.60 28.87	2.23 - 25.48	1.00 - 7.52	I	
Total	97.0	5 99.92	139.30	14.32	92.73	- 4.42	21.09	29.90	6

¹ Including unlisted shares.

2 Financial assets and liabilities of non-financial corporations (non-consolidated)

Financial assets Currency and deposits Debt securities short-term debt securities long-term debt securities Memo item Debt securities of domestic sectors Non-financial corporations Financial corporations	2015 463.1 47.8 6.0 41.7 23.3 3.6 14.5 5.2	44.8	2017 556.2 38.8 3.3	Q4 514.9 44.8	Q1 517.2	Q2 525.5	Q3	Q4	Q1
Currency and deposits Debt securities short-term debt securities long-term debt securities Memo item Debt securities of domestic sectors Non-financial corporations Financial corporations	47.8 6.0 41.7 23.3 3.6 14.5	44.8 5.5	38.8	1	517.2	l 525.5			
Debt securities short-term debt securities long-term debt securities Memo item Debt securities of domestic sectors Non-financial corporations Financial corporations	47.8 6.0 41.7 23.3 3.6 14.5	44.8 5.5	38.8	1	517.2	l 525.5			
Debt securities short-term debt securities long-term debt securities Memo item Debt securities of domestic sectors Non-financial corporations Financial corporations	47.8 6.0 41.7 23.3 3.6 14.5	44.8 5.5	38.8	1] 3.7.2		532.8	556.2	l 5:
Debt securities of domestic sectors Non-financial corporations Financial corporations	3.6 14.5	1	35.6	5.5 39.3	43.9 5.8 38.1	42.8 3.9 39.0	41.9 3.6 38.3	38.8 3.3 35.6	
General government Debt securities of the rest of the world Loans	24.4 511.5	12.0 4.4	18.2 3.9 11.7 2.5 20.7 556.2	20.8 4.4 12.0 4.4 24.0 523.0	20.3 5.3 11.6 3.4 23.6	20.2 4.6 12.3 3.3 22.7 550.3	19.3 4.1 12.3 3.0 22.6 551.3	18.2 3.9 11.7 2.5 20.7 556.2	5
short-term loans long-term loans	409.4 102.1		431.1 125.1	414.3 108.7	428.5 119.9	426.1 124.2	424.7 126.5	431.1 125.1	4
Memo item to domestic sectors Non-financial corporations Financial corporations General government to the rest of the world Equity and investment fund shares	335.7 233.3 95.9 6.5 175.8 1,876.2	6.6 192.0 1,919.8	349.1 231.1 111.0 6.9 207.1 2,063.8	331.0 221.6 102.8 6.6 192.0 1,919.8	340.0 221.8 111.5 6.7 208.4 2,001.5	340.0 224.7 108.5 6.8 210.3 1,989.5	338.6 224.4 107.3 6.9 212.7 2,020.1	349.1 231.1 111.0 6.9 207.1 2,063.8	3 2 1 2 2,0
Equity Listed shares of domestic sectors Non-financial corporations Financial corporations Listed shares of the rest of the world	1,724.3 273.0 266.6 6.3 35.2	286.2 6.1	1,893.7 332.2 325.3 6.8 53.5	1,759.9 292.3 286.2 6.1 49.2	1,840.7 304.1 298.6 5.5 53.3	1,831.3 304.1 297.9 6.2 61.4	1,858.7 322.7 315.9 6.9 52.7	1,893.7 332.2 325.3 6.8 53.5	1,8 3 3
Other equity 1 Investment fund shares Money market fund shares Non-MMF investment fund shares Insurance technical reserves Financial derivatives	1,416.1 151.9 1.4 150.6 48.8 42.7	1.9	1,508.0 170.1 1.5 168.6 51.4 51.6	1,418.4 159.9 1.9 158.0 50.2 60.1	1,483.3 160.8 1.7 159.1 50.5 55.7	1,465.8 158.2 1.7 156.4 50.8 52.1	1,483.3 161.4 0.6 160.7 51.1 51.6	1,508.0 170.1 1.5 168.6 51.4 51.6	1,4 1 1
Other accounts receivable	927.6	1	1,032.0	960.3	1,044.5	993.1	1,042.6	1,032.0	1,0
Total	3,917.8	4,073.1	4,350.0	4,073.1	4,261.6	4,204.0	4,291.3	4,350.0	4,3
iabilities									
Debt securities	156.8	183.8	210.6	183.8	189.7	188.1	210.2	210.6	1
short-term securities long-term securities	3.0 153.7	2.9 180.9	3.4 207.2	2.9 180.9	8.3 181.4	7.9 180.2	5.3 205.0	3.4 207.2	1
Memo item Debt securities of domestic sectors Non-financial corporations Financial corporations General government Households Debt securities of the rest of the world	58.7 3.6 40.0 0.1 15.0 98.1		82.9 3.9 64.4 0.1 14.4 127.7	72.2 4.4 51.9 0.1 15.7 111.6	74.9 5.3 54.5 0.1 15.0 114.8	75.4 4.6 55.9 0.1 14.8 112.6	80.1 4.1 61.1 0.1 14.8 130.1	82.9 3.9 64.4 0.1 14.4 127.7	1
Loans short-term loans long-term loans	1,449.7 535.0 914.7	1,479.2	1,571.9 559.4 1,012.6	1	l	1,535.2 550.0 985.2	1,551.3 557.4 994.0		
Memo item from domestic sectors Non-financial corporations Financial corporations General government from the rest of the world	1,117.3 233.3 832.3 51.6 332.4	221.6 852.3 53.0 352.4	1,188.7 231.1 895.8 61.8 383.3	1,126.8 221.6 852.3 53.0 352.4	1,153.1 221.8 872.6 58.7 374.5	1,160.6 224.7 876.4 59.5 374.6	1,170.5 224.4 887.8 58.3 380.8	1,188.7 231.1 895.8 61.8 383.3	1,2 2 9
Equity Listed shares of domestic sectors Non-financial corporations Financial corporations General government Households Quoted shares of the rest of the world	2,695.7 626.4 266.6 150.1 43.4 166.2 756.3	286.2 154.7 44.4 178.7	3,054.5 756.6 325.3 180.2 51.8 199.2 925.3	2,773.4 664.0 286.2 154.7 44.4 178.7 803.7	2,895.0 696.5 298.6 161.3 47.0 189.7 865.4	2,916.4 697.8 297.9 166.4 46.7 186.8 879.1	3,001.4 737.6 315.9 173.4 51.0 197.4 906.1	3,054.5 756.6 325.3 180.2 51.8 199.2 925.3	2,9 7 3 1 1 8
Other equity 1 Insurance technical reserves	1,313.0 255.9	1,305.7 259.5	1,372.6 263.1	1,305.7 259.5	1,333.0 260.4	1,339.5 261.3	1,357.7 262.2	1,372.6 263.1	1,3 2
Financial derivatives and employee stock options Other accounts payable	42.0 1,007.8	1	26.9 1,047.4	38.2 1,043.1	35.4 1,076.2	32.7 1,022.1	31.3 1,050.2	26.9 1,047.4	1,0

¹ Including unlisted shares.

3 Acquisition of financial assets and external financing of households (non-consolidated)

				2016	2017				2018
m	2015	2016	2017	Q4	Q1	Q2	Q3	Q4	Q1
Acquisition of financial assets									
Currency and deposits	96.67	114.98	103.59	52.40	12.35	30.16	18.03	43.05	1
Currency	25.51	21.30	17.15	6.32	3.63	5.57	2.46	5.49	
Deposits	71.16	93.68	86.45	46.09	8.72	24.59	15.58	37.57	
Transferable deposits	100.96	105.26	99.72	46.52	13.26	29.95	20.65	35.86	
Time deposits	- 9.22	1.28	- 4.03	0.02	- 1.59	- 2.32	- 2.47	2.34	
Savings deposits									
(including savings certifikates)	- 20.58		- 9.24	1		- 3.04	- 2.61	- 0.64	1
Debt securities	- 18.40	1	1	1		l 1	- 2.28	1	1
short-term debt securities long-term debt securities	0.75 - 19.15				0.37 - 1.72	0.18 - 1.67	- 0.34 - 1.94		
Memo item Debt securities of domestic sectors Non-financial corporations Financial corporations General government	- 10.06 0.36 - 7.42 - 2.99	- 0.01 - 2.48	- 1.43 - 2.68	- 0.10 - 1.37	1.01	- 0.67 - 0.22 - 0.17 - 0.28	- 1.88 - 0.14 - 1.55 - 0.18	- 0.40 - 1.97	
Debt securities of the rest of the world	- 8.34			1	- 1.37	- 0.82	- 0.10	- 0.15	1
Equity and investment fund shares	47.95	1	55.13	4.54		12.32	14.08	16.62	1
Equity	16.62		14.69	1	3.40	2.21	5.11	3.97	1
Listed Shares of domestic sectors	4.17	1	0.90	1		- 0.18	0.89	0.04	1
Non-financial corporations Financial corporations	3.88 0.28	6.09	0.54	- 1.70	0.48	' '	1.01	0.47	
Quoted shares of the rest of the world	8.00	1	1		2.25	1.69	2.94	1	1
Other equity 1	4.45		4.13	1		0.70	1.28	1	1
Investment fund shares	31.34		40.44	1		10.11	8.97	12.65	1
Money market fund shares Non-MMF investment fund shares	- 0.57 31.90	- 0.53	- 0.28	- 0.17	- 0.22 8.92	0.04	- 0.16 9.12	0.05	_
Non-life insurance technical reserves and provision for calls under standardised quarantees	20.09			8.01	2.85	2.87	2.82	2.89	
Life insurance and annuity									
entitlements	31.69	24.82	31.59	5.65	13.31	10.71	4.91	2.67	
Pension entitlement, claims of pension funds on pension managers, entitlements to non-pension benefits	30.85	20.63	29.47	1.63	7.67	4.34	7.09	10.37	
Financial derivatives and employee stock options	0.00		0.00		0.00	0.00	0.00	0.00	
Other accounts receivable 2	- 17.31	1	1	1	15.21	- 6.13	2.70	1	1
Total	191.54	201.23	210.39	47.32	62.14	52.77	47.35	48.13	Г
external financing									
Loans	38.20	47.38	55.63	9.48	7.90	16.64	18.56	12.53	
short-term loans long-term loans	- 3.17 41.36	- 4.31	- 2.19	- 2.05	- 0.35	l 1	- 1.09 19.66	- 0.40	-
Memo item Mortage loans Consumer loans	35.63 5.44	41.84	47.49	11.04	6.12	13.31 3.25	15.84 3.41		
Entrepreneurial loans Memo item	- 2.88					0.07	- 0.68		
Loans from monetary financial institutions Loans from other financial institutions Loans from general government and rest	39.35 - 1.16	4.51	49.99 5.65	1.40	0.80	15.54 1.10	16.93 1.63	2.11	-
of the world	0.00	1	1	1		0.00	0.00	1	1
Financial derivatives Other accounts payable	0.00			1		0.00	0.00	1	1
	- 1.14	0.23	0.22	0.00	0.12	0.07	0.02	0.02	Ļ

 $^{{\}bf 1}$ Including unlisted shares. ${\bf 2}$ Including accumulated interest-bearing surplus shares with insurance corporations.

4 Financial assets and liabilities of households (non-consolidated)

				2016	2017				2018
n	2015	2016	2017	Q4	Q1	Q2	Q3	Q4	Q1
inancial assets									
Currency and deposits	2,094.8	2,208.9	2,311.3	2,208.9	2,221.9	2,252.1	2,270.1	2,311.3	2,32
Currency	153.2	174.5	191.6	174.5	178.1	183.7	186.2	191.6	1
Deposits	1,941.6	2,034.4	2,119.6	2,034.4	2,043.8	2,068.4	2,084.0	2,119.6	2,1
Transferable deposits	1,082.4	1,188.0	1,287.7	1,188.0	1,201.2	1,231.2	1,251.8	1,287.7	1,2
Time deposits	246.8	248.7	245.4	248.7	247.9	245.6	243.1	245.4	2
Savings deposits (including savings certifikates)	612.4	597.7	586.5	597.7	594.7	591.7	589.1	586.5	
Debt securities	139.8	127.4	120.5	127.4	126.7	125.4	123.6	120.5	:
short-term debt securities long-term debt securities	2.9 136.9	2.7 124.7	2.5 118.0	2.7 124.7	3.1 123.6	3.2 122.2	2.9 120.7	2.5 118.0	
Memo item Debt securities of domestic sectors Non-financial corporations Financial corporations General government	89.4 13.4 69.5 6.5	85.6 13.9 66.7 5.0	82.5 12.5 66.1 3.9	85.6 13.9 66.7 5.0	86.1 13.3 68.2 4.6	86.2 13.0 68.9 4.3	85.1 12.9 68.1 4.1	82.5 12.5 66.1 3.9	
Debt securities of the rest of the world	50.3	41.8	37.9	41.8	40.6	39.3	38.5	37.9	
Equity and investment fund shares	1,040.7	1,107.9	1,218.2	1,107.9	1,155.7	1,158.4	1,193.2	1,218.2	1,
Equity	555.9	590.0	642.1	590.0	614.8	611.2	632.5	642.1	
Listed Shares of domestic sectors	188.9	200.8	226.4	200.8	213.0	211.1	223.7	226.4	
Non-financial corporations Financial corporations	158.7 30.3	169.8 31.0	190.3 36.1	169.8 31.0	180.4 32.6	177.5 33.6	188.4 35.4	190.3 36.1	
Quoted shares of the rest of the world	74.8	86.8	101.0	86.8	93.1	92.7	96.5	101.0	
Other equity 1	292.2	302.5	314.7	302.5	308.7	307.4	312.2	314.7	
Investment fund shares	484.8	517.8	576.2	517.8	540.9	547.2	560.7	576.2	
Money market fund shares Non-MMF investment fund shares	3.4 481.4	2.8 515.0	2.7 573.5	2.8 515.0	2.7 538.2	2.8 544.4	2.6 558.1	2.7 573.5	
Non-life insurance technical reserves and provision for calls under standardised guarantees	324.3	339.9	351.3	339.9	342.7	345.6	348.4	351.3	
Life insurance and annuity entitlements	919.5	947.8	979.8	947.8	961.2	972.0	977.1	979.8	
Pension entitlement, claims of pension funds on pension managers, entitlements to non-pension benefits	786.6	816.7	846.2	816.7	824.4	828.7	835.8	846.2	
Financial derivatives and employee stock options	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Other accounts receivable 2	37.1	32.6	33.5	32.6	32.8	33.2	33.3	33.5	
Total	5,342.8	5,581.1	5,860.8	5,581.1	5,665.5	5,715.4	5,781.5	5,860.8	5,
iabilities									
Loans	1,606.6	1,654.6	1,711.9	1,654.6	1,662.5	1,680.5	1,699.0	1,711.9	1,3
short-term loans long-term loans	60.9 1,545.8	56.6 1,598.0	54.4 1,657.5	56.6 1,598.0	56.3 1,606.2	55.9 1,624.5	54.8 1,644.2		1,0
Memo item Mortage loans Consumer loans Entrepreneurial loans	1,153.8 191.9 260.9	1,195.8 201.8 257.0	1,247.4 211.8 252.7	1,195.8 201.8 257.0	1,201.9 204.2 256.4	1,218.3 207.4 254.8	1,234.6 210.6 253.8		
Memo item Loans from monetary financial institutions Loans from other financial institutions Loans from general government and rest of the world	1,514.9 91.8	1,558.3 96.3	1,610.0 101.9	1,558.3 96.3	1,565.4 97.1	1,582.3 98.2	1,599.2 99.8	1,610.0 101.9	
of the world Financial derivatives	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Other accounts payable	15.1	15.4	15.6		16.5	16.2	16.4	15.6	
Total	1,621.7	1,670.1	1,727.5	1,670.1	1,679.0	1,696.6	1,715.4	1,727.5	1,

 $^{{\}bf 1}$ Including unlisted shares. ${\bf 2}$ Including accumulated interest-bearing surplus shares with insurance corporations.

1 General government: deficit/surplus and debt level as defined in the Maastricht Treaty

Period	General government € billion	Central government	State government	Local government	Social security funds	General government as a percentage	Central government	State government	Local government	Social security funds
renou	Deficit/surpl	lus¹				as a percentage	or dor			
2011 2012 2013 2014 p	- 25.9 - 0.9 - 4.0 + 15.5	- 29.4 - 16.1 - 7.4 + 14.7	- 11.4 - 5.5 - 2.5 - 1.1	- 0.3 + 2.2 + 0.5 - 1.2	+ 15.3 + 18.4 + 5.4 + 3.2	- 0.0 - 0.1 + 0.5	- 0.6 - 0.3 + 0.5	- 0.4 - 0.2 - 0.1 - 0.0	+ 0.1 + 0.0 - 0.0	+ 0.6 + 0.7 + 0.2 + 0.1
2015 p 2016 p 2017 p e	+ 25.4 + 31.9 + 38.2	+ 15.7 + 13.6 + 7.1	+ 3.8 + 4.9 + 10.8	+ 3.1 + 5.2 + 9.9	+ 2.7 + 8.2 + 10.5	+ 0.8 + 1.0 + 1.2	+ 0.5 + 0.4 + 0.2	+ 0.1 + 0.2 + 0.3	+ 0.1 + 0.2 + 0.3	+ 0.1 + 0.3 + 0.3
2016 H1 P H2 P	+ 20.6 + 11.2	+ 8.1 + 5.5	+ 4.1 + 0.8	+ 1.9 + 3.3	+ 6.6 + 1.6	+ 1.3 + 0.7	+ 0.5 + 0.3	+ 0.3 + 0.0	+ 0.1 + 0.2	+ 0.4 + 0.1
2017 H1 pe H2 pe	+ 22.2 + 16.0	+ 2.1 + 5.0	+ 6.3 + 4.4	+ 6.7 + 3.2	+ 7.1 + 3.4	+ 1.4 + 1.0	+ 0.1 + 0.3	+ 0.4 + 0.3		·
	Debt level ²								End of yea	r or quarter
2011 2012 2013 2014 p	2,125.1 2,202.3 2,190.5 2,192.0	1,344.1 1,387.9 1,390.4 1,396.5	653.8 683.6 665.6 660.1	143.5 147.5 150.6 152.0	1.3 1.2 1.3 1.4	78.6 79.8 77.5 74.7	49.7 50.3 49.2 47.6	24.2 24.8 23.5 22.5	5.3 5.3	0.0 0.0 0.0 0.0
2015 p 2016 p 2017 p	2,161.8 2,145.5 2,092.6	1,372.6 1,366.8 1,351.6	656.5 639.5 612.1	152.2 153.4 147.2	1.4 1.1 0.8	71.0 68.2 64.1	45.1 43.5 41.4	21.6 20.3 18.8	5.0 4.9 4.5	0.0 0.0 0.0
2016 Q1 P Q2 P Q3 P Q4 P	2,170.2 2,173.6 2,167.0 2,145.5	1,382.5 1,391.1 1,381.1 1,366.8	649.6 646.1 646.5 639.5	154.4 154.0 154.8 153.4	1.2 1.1 1.0 1.1	70.8 70.1 69.4 68.2	45.1 44.8 44.2 43.5	21.2 20.8 20.7 20.3	5.0 5.0 5.0 4.9	0.0 0.0 0.0 0.0
2017 Q1 P Q2 P Q3 P Q4 P	2,118.2 2,112.5 2,105.6 2,092.6	1,351.0 1,353.6 1,353.0 1,351.6	629.0 622.2 620.1 612.1	152.0 151.4 149.7 147.2	1.2 0.9 0.8 0.8	66.7 66.1 65.2 64.1	42.5 42.3 41.9 41.4	19.8 19.5 19.2 18.8	4.7 4.6	0.0 0.0 0.0 0.0
2018 Q1 P	2,071.4	1,338.8	602.1	147.5	1.0	62.9	40.7	18.3	4.5	0.0

Sources: Federal Statistical Office and Bundesbank calculations. **1** The deficit/surplus in accordance with ESA 2010 corresponds to the Maastricht definition. **2** Quarterly

 $\ensuremath{\mathsf{GDP}}$ ratios are based on the national output of the four preceding quarters.

2 General government: revenue, expenditure and deficit/surplus as shown in the national accounts*

	Revenue			Expenditure									
		of which				of which							
Period	Total	Taxes	Social con- tributions	Other	Total	Social benefits	Compen- sation of employees	Inter- mediate consumption	Gross capital formation	Interest	Other	Deficit/ surplus	Memo item Total tax burden 1
	€ billion												
2011 2012 2013 2014 p	1,182.7 1,220.9 1,259.0 1,308.3	598.8 624.9 651.0 674.1	442.3 454.3 465.0 482.0	141.7 141.7 143.0 152.3	1,208.6 1,221.8 1,263.0 1,292.8	633.9 645.5 666.4 691.0	208.6 212.3 217.8 224.0	124.1 126.5 133.0 137.4	61.4 61.5 60.1 60.0	67.5 63.1 55.5 45.3	113.1 112.8 130.2 135.2	- 25.9 - 0.9 - 4.0 + 15.5	1,045.6 1,083.7 1,120.3 1,160.7
2015 p 2016 p 2017 p e	1,354.3 1,414.2 1,473.3	704.3 739.0 772.0	500.8 523.8 548.0	149.2 151.5 153.4	1,328.8 1,382.4 1,435.1	722.3 754.9 784.0	229.2 236.5 246.1	142.2 150.0 155.7	64.2 66.8 70.3	40.4 35.4 33.8	130.6 138.8 145.2	+ 25.4 + 31.9 + 38.2	1,212.2 1,269.6 1,326.7
	as a perce	entage of	GDP										
2011 2012 2013 2014 P	43.8 44.3 44.5 44.6	22.2 22.7 23.0 23.0	16.4 16.5 16.5 16.4	5.2 5.1 5.1 5.2	44.7 44.3 44.7 44.1	23.4 23.4 23.6 23.6	7.7 7.7 7.7 7.6	4.6 4.6 4.7 4.7	2.3 2.2 2.1 2.0	2.5 2.3 2.0 1.5	4.2 4.1 4.6 4.6	- 1.0 - 0.0 - 0.1 + 0.5	38.7 39.3 39.6 39.6
2015 p 2016 p 2017 pe	44.5 45.0 45.1	23.1 23.5 23.7	16.5 16.7 16.8	4.9 4.8 4.7	43.7 44.0 44.0	23.7 24.0 24.0	7.5 7.5 7.5	4.7 4.8 4.8	2.1 2.1 2.2	1.3 1.1 1.0	4.3 4.4 4.4	+ 0.8 + 1.0 + 1.2	39.8 40.4 40.7
	Percentag	ge growth	rates										
2011 2012 2013 2014 P 2015 P 2016 P	+ 6.5 + 3.2 + 3.1 + 3.9 + 3.5 + 4.4	+ 7.7 + 4.4 + 4.2 + 3.6 + 4.5 + 4.9	+ 3.8 + 2.7 + 2.4 + 3.6 + 3.9 + 4.6	+ 10.7 + 0.0 + 1.0 + 6.4 - 2.0 + 1.6	- 0.9 + 1.1 + 3.4 + 2.4 + 2.8 + 4.0	- 0.1 + 1.8 + 3.2 + 3.7 + 4.5 + 4.5	+ 2.5 + 1.8 + 2.6 + 2.9 + 2.3 + 3.2	+ 5.1 + 2.0 + 5.1 + 3.3 + 3.5 + 5.5	+ 3.3 + 0.2 - 2.2 - 0.3 + 7.0 + 4.1	+ 5.7 - 6.5 - 12.0 - 18.5 - 10.7 - 12.4	- 19.2 - 0.3 + 15.4 + 3.9 - 3.4 + 6.2		+ 6.0 + 3.6 + 3.4 + 3.6 + 4.4 + 4.7
2017 pe	+ 4.2	+ 4.5	+ 4.6	+ 1.2	+ 3.8	+ 3.9	+ 4.1	+ 3.8	+ 5.2	- 4.6	+ 4.6		+ 4.5

Source: Federal Statistical Office. * Figures in accordance with ESA 2010. 1 Taxes and social contributions plus customs duties and levies from banks to the Single Reso-

lution Fund established at the European level.

3 General government: budgetary development (as per government's financial statistics)

€ billion

	Central, stat	te and loca	l governm	ent 1							Social secu	rity funds 2		General go	vernment,	total
	Revenue			Expenditur	e											
		of which			of which	3										
Period	Total 4	Taxes	Finan- cial transac- tions 5	Total 4	Person- nel expend- iture	Current grants	Interest	Fixed asset forma- tion	Finan- cial transac- tions 5	Deficit / surplus	Rev- enue 6	Expend- iture	Deficit / surplus	Rev- enue	Expend- iture	Deficit / surplus
2011 2012 p 2013 p 2014 p	689.6 745.0 761.8 791.8	573.4 600.0 619.7 643.6	22.8 14.7 14.7 11.3	711.6 770.2 773.6 786.7	194.3 218.8 225.3 236.0	301.3 285.2 286.9 292.9	56.8 69.9 65.7 57.1	38.5 42.6 42.8 45.9	13.7 25.5 23.5 17.6	- 22.0 - 25.2 - 11.8 + 5.1	526.3 536.2 536.7 554.5	511.2 518.8 531.9 551.1	+ 15.1 + 17.4 + 4.9 + 3.5	1,104.2 1,171.1 1,198.1 1,245.3	1,111.1 1,178.8 1,205.0 1,236.7	- 6.9 - 7.8 - 6.9 + 8.6
2015 p 2016 p 2017 p	829.5 862.1 900.0	673.3 705.8 734.5	10.4 9.0 7.9	804.1 843.4 872.1	244.1 251.3 261.6	302.6 320.5 325.9	49.8 43.4 42.0	46.4 49.0 52.3	12.5 11.8 13.8	+ 25.5 + 18.7 + 27.9	575.0 601.8 630.9	573.1 594.8 621.6	+ 1.9 + 7.1 + 9.4	1,300.8 1,355.0 1,416.7	1,273.4 1,329.2 1,379.4	+ 27.4 + 25.8 + 37.3
2015 Q1 P Q2 P Q3 P Q4 P	196.0 208.4 202.8 221.5	160.9 167.7 166.5 178.2	2.4 1.5 3.8 2.6	198.8 185.2 198.0 219.3	58.5 59.5 62.3 63.4	80.5 72.8 71.3 77.4	18.4 7.2 16.6 7.3	7.7 9.1 11.6 17.3	2.5 3.0 3.4 3.5	- 2.8 + 23.1 + 4.7 + 2.2	137.3 142.4 141.2 152.7	142.8 142.3 143.4 145.3	- 5.4 + 0.1 - 2.1 + 7.4	307.6 325.0 318.1 348.4	315.8 301.8 315.5 338.8	- 8.2 + 23.2 + 2.6 + 9.6
2016 Q1 P Q2 P Q3 P Q4 P	206.1 216.7 207.1 232.6	169.9 176.6 169.3 189.2	1.4 2.4 2.9 2.1	206.0 194.1 210.4 233.2	60.0 60.7 62.0 68.1	81.2 77.7 78.8 83.1	17.7 5.4 14.5 7.7	8.4 10.4 12.3 17.2	2.2 2.4 2.4 4.8	+ 0.1 + 22.7 - 3.3 - 0.6	143.0 148.7 148.3 160.1	146.6 147.0 149.7 152.2	- 3.6 + 1.7 - 1.4 + 7.8	322.2 338.5 328.2 365.3	325.7 314.2 332.9 358.1	- 3.5 + 24.3 - 4.7 + 7.2
2017 Q1 P Q2 P Q3 P Q4 P	216.0 217.9 219.6 243.8 223.3	180.4 177.3 180.4 196.3	0.9 1.2 3.5 2.1	200.1 206.7 215.4 244.4 207.9	62.9 63.9 64.4 69.8 61.1	80.3 83.6 78.1 85.1 81.0	13.8 6.6 14.5 6.9 11.5	10.2 8.8 13.4 19.2 8.8	1.9 3.6 4.2 4.1 2.5	+ 15.9 + 11.3 + 4.3 - 0.6 + 15.4	150.3 156.4 154.8 168.2 156.1	155.1 154.3 155.7 158.0 160.8	- 4.8 + 2.1 - 0.9 + 10.2 - 4.7	338.0 346.1 346.1 383.4 350.4	326.9 332.8 342.7 373.8 339.7	+ 11.1 + 13.4 + 3.3 + 9.6 + 10.7

Source: Bundesbank calculations based on Federal Statistical Office data. **1** Annual figures based on the calculations of the Federal Statistical Office. Bundesbank supplementary estimations for the reporting years after 2011 that are not yet available. The quarterly figures contain numerous off-budget entities which are assigned to the general government sector as defined in the national accounts but are not yet included in the annual calculations. From 2012, also including the bad bank FMSW. **2** The annual figures do not tally with the sum of the quarterly figures, as the

latter are all provisional. The quarterly figures for some insurance sectors are estimated. **3** The development of the types of expenditure recorded here is influenced in part by statistical changeovers. **4** Including discrepancies in clearing transactions between central, state and local government. **5** On the revenue side, this contains proceeds booked as disposals of equity interests and as loan repayments. On the expenditure side, this contains the acquisition of equity interests and loans granted. **6** Including central government liquidity assistance to the Federal Employment Agency.

4 Central, state and local government: budgetary development (as per government's financial statistics)

€ billion

	Central government			State government	2,3		Local government 3			
Period	Revenue 1	Expenditure	Deficit / surplus	Revenue	Expenditure	Deficit / surplus	Revenue	Expenditure	Deficit / surplus	
2011	307.1	324.9	- 17.7	286.5	295.9	- 9.4	183.9	184.9	- 1.0	
2012 P	312.5	335.3	- 22.8	311.0	316.1	- 5.1	200.0	198.5	+ 1.5	
2013 P	313.2	335.6	- 22.4	324.3	323.9	+ 0.4	207.6	206.3	+ 1.3	
2014 P	322.9	323.3	- 0.3	338.3	336.1	+ 2.1	218.7	218.7	- 0.1	
2015 P	338.3	326.5	+ 11.8	355.1	350.6	+ 4.5	232.7	229.1	+ 3.6	
2016 P	344.7	338.4	+ 6.2	381.1	372.4	+ 8.8	248.9	243.1	+ 5.8	
2017 P	357.8	352.8	+ 5.0	397.7	385.8	+ 11.8	260.3	249.1	+ 11.2	
2015 Q1 p	74.4	81.6	- 7.1	84.2	84.5	- 0.3	46.3	52.1	- 5.8	
Q2 p	86.5	72.6	+ 13.9	87.0	83.6	+ 3.4	58.1	53.4	+ 4.7	
Q3 p	85.9	89.0	- 3.2	87.8	84.2	+ 3.6	57.5	56.3	+ 1.2	
Q4 p	91.5	83.4	+ 8.1	94.1	96.8	- 2.8	69.0	65.9	+ 3.0	
2016 Q1 P	81.1	82.7	- 1.6	90.5	88.2	+ 2.4	49.0	55.1	- 6.1	
Q2 P	87.5	73.6	+ 13.8	92.7	88.2	+ 4.4	61.1	57.9	+ 3.2	
Q3 P	85.2	88.2	- 3.0	91.5	90.0	+ 1.5	60.7	60.7	+ 0.1	
Q4 P	90.9	93.9	- 3.0	104.3	104.4	- 0.0	76.3	68.0	+ 8.3	
2017 Q1 P	88.2	83.3	+ 4.8	95.6	90.0	+ 5.6	52.7	57.7	- 4.9	
Q2 P	81.5	80.1	+ 1.4	96.3	93.6	+ 2.7	65.0	59.5	+ 5.5	
Q3 P	88.6	93.1	- 4.6	98.9	91.4	+ 7.5	63.4	61.5	+ 1.9	
Q4 P	99.5	96.2	+ 3.3	104.7	109.2	- 4.5	77.2	69.1	+ 8.2	
2018 Q1 P	87.9	84.4	+ 3.5	100.0	92.7	+ 7.3	54.9	60.3	- 5.3	

Source: Bundesbank calculations based on Federal Statistical Office data. 1 Any amounts of the Bundesbank's profit distribution exceeding the reference value that were used to repay parts of the debt of central government's special funds are not included here. 2 Including the local authority level of the city-states Berlin, Bremen and Hamburg. 3 Quarterly data of core budgets and off-budget entities which are

assigned to the general government sector. Annual figures up to and including 2011: excluding off-budget entities, but including special accounts and special purpose associations based on the calculations of the Federal Statistical Office. For the following years, Bundesbank supplementary estimations.

5 Central, state and local government: tax revenue

€ million

		Central and state gove	rnment and European	Union				
Period	Total	Total		State government 1	European Union 2	Local government 3	Balance of untransferred tax shares 4	Memo item Amounts deducted in the federal budget 5
2011 2012 2013 2014	573,352 600,046 619,708 643,624	496,738 518,963 535,173 556,008	276,598 284,801 287,641 298,518	195,676 207,846 216,430 226,504	24,464 26,316 31,101 30,986	76,570 81,184 84,274 87,418	+ 43 - 101 + 262 + 198	28,615 28,498 27,775 27,772
2015 2016 2017	673,276 705,797 734,540	580,485 606,965 629,458	308,849 316,854 336,730	240,698 260,837 271,046	30,938 29,273 21,682	93,003 98,648 105,158	- 212 + 186 - 76	
2016 Q1 Q2 Q3 Q4	170,358 176,879 169,374 189,186	144,841 152,042 145,700 164,382	74,113 82,184 76,638 83,919	61,972 64,684 61,573 72,608	8,755 5,175 7,489 7,855	17,121 25,169 23,839 32,518	+ 8,396 - 332 - 165 - 7,714	6,512 7,584
2017 Q1 Q2 Q3 Q4	181,506 177,090 180,407 195,537	154,154 149,915 155,250 170,139	85,256 76,391 82,576 92,507	66,704 66,605 66,718 71,019	2,194 6,918 5,957 6,613	17,950 27,631 25,517 34,060	+ 9,403 - 456 - 361 - 8,662	
2018 Q1	189,457	159,974	83,370	69,413	7,191	19,173	+ 10,310	6,398
2017 Apr May		45,841 45,515	23,674 24,364	19,826 18,876	2,341 2,276		:	2,275 2,275
2018 Apr May	:	47,500 48,495	24,298 26,351	20,936 20,364	2,267 1,780	:	:	2,197 2,197

Sources: Federal Ministry of Finance, Federal Statistical Office and Bundesbank calculations. 1 Before deducting or adding supplementary central government grants, regionalisation funds (local public transport), compensation for the transfer of motor vehicle tax to central government and consolidation assistance, which central government remits to state government. See the last column for the volume of these amounts which are deducted from tax revenue in the federal budget. 2 Custom duties and shares in VAT and gross national income accruing to the EU from central

government tax revenue. 3 Including local government taxes in the city-states Berlin, Bremen and Hamburg. Including revenue from offshore wind farms. 4 Difference between local government's share in the joint taxes received by the state government cash offices in the period in question (see Table X. 6) and the amounts passed on to local government in the same period. 5 Volume of the positions mentioned under footnote 1.

6 Central and state government and European Union: tax revenue, by type

€ million

		Joint taxes												l.,
		Income taxes	2				Turnover taxe	es 5						Memo item
Period	Total 1	Total	Wage tax 3		Corpora- tion tax	Invest- ment income tax 4	Total	Turnover tax	Turnover tax on imports	Local business tax trans- fers 6	Central govern- ment taxes 7	State govern- ment taxes 7	EU customs duties	Local govern- ment share in joint taxes
2011	527,255	213,534	139,749	31,996	15,634	26,155	190,033	138,957	51,076	6,888	99,133	14,201	4,571	30,517
2012	551,785	231,555	149,065	37,262	16,934	28,294	194,635	142,439	52,196	7,137	99,794		4,462	32,822
2013	570,213	245,909	158,198	42,280	19,508	25,923	196,843	148,315	48,528	7,053	100,454		4,231	35,040
2014	593,039	258,875	167,983	45,613	20,044	25,236	203,110	154,228	48,883	7,142	101,804		4,552	37,031
2015	620,287	273,258	178,891	48,580	19,583	26,204	209,921	159,015	50,905	7,407	104,204	20,339	5,159	39,802
2016	648,309	291,492	184,826	53,833	27,442	25,391	217,090	165,932	51,157	7,831	104,441	22,342	5,113	41,345
2017	674,598	312,462	195,524	59,428	29,259	28,251	226,355	170,498	55,856	8,580	99,934	22,205	5,063	45,141
2016 Q1	154,892	70,790	42,583	14,569	8,433	5,204	54,408	42,268	12,141	173	22,553	5,673	1,294	10,051
Q2	162,096	74,489	45,311	12,943	7,329	8,905	52,705	40,195	12,510	1,957	25,783	5,952	1,210	10,054
Q3	155,524	68,137	44,656	11,898	5,546	6,037	53,906	40,877	13,029	2,046	24,857	5,263	1,316	9,824
Q4	175,797	78,076	52,275	14,422	6,134	5,245	56,071	42,593	13,478	3,656	31,247	5,454	1,293	11,415
2017 Q1	165,352	76,990	45,309	17,009	8,511	6,161	57,502	44,196	13,306	438	23,364	5,834	1,224	11,198
Q2	161,036	78,178	48,256	14,825	7,872	7,225	54,243	39,885	14,358	2,059	19,868	5,407	1,281	11,121
Q3	165,923	75,218	47,253	12,720	6,034	9,211	56,481	42,571	13,911	2,214	25,114	5,580	1,315	10,673
Q4	182,288	82,077	54,707	14,873	6,843	5,654	58,128	43,846	14,282	3,868	31,587	5,384	1,243	12,149
2018 Q1	172,111	81,713	48,059	17,640	9,418	6,595	59,248	45,272	13,977	291	23,752	5,836	1,271	12,136
2017 Apr	49,018	20,035	16,149	1,389	551	1,946	17,302	12,328	4,975	1,772	7,789	1,669	450	3,177
May	48,352	18,182	14,788	292	280	2,822	19,062	14,434	4,628	294	8,579	1,850	385	2,837
2018 Apr	50,927	21,339	17,136	1,548	413	2,241	16,997	12,345	4,652	1,794	8,036		405	3,426
May	51,621	20,479	16,047	198	853	3,382	19,903	14,889	5,014	418	8,680		332	3,125

Source: Federal Ministry of Finance and Bundesbank calculations. 1 This total, unlike that in Table X. 5, does not include the receipts from the equalisation of burdens levies, local business tax (less local business tax transfers to central and state government), real property taxes and other local government taxes, or the balance of untransferred tax shares. 2 Respective percentage share of central, state and local government in revenue: wage tax and assessed income tax 42.5:42.5:15, corporation tax and non-assessed taxes on earnings 50:50:-, final withholding tax on interest income and capital gains, non-assessed taxes on earnings 44:44:12. 3 After

deducting child benefit and subsidies for supplementary private pension plans. 4 Final withholding tax on interest income and capital gains, non-assessed taxes on earnings. 5 The allocation of revenue to central, state and local government, which is adjusted at more regular intervals, is regulated in section 1 of the Revenue Adjustment Act. Respective percentage share of central, state and local government in revenue for 2017: 50.7:46.6:2.7. The EU share is deducted from central government's share. 6 Respective percentage share of central and state government for 2017: 22.6:77.4. 7 For the breakdown, see Table X. 7.

7 Central, state and local government: individual taxes

€ million

	Central gov	ral government taxes 1								nment taxes	; 1		55,398 42,345 12,01: 56,549 43,027 12,37: 57,728 43,763 12,69: 60,396 45,752 13,21: 65,319 50,103 13,65: 68,522 52,899 13,960: 15,639 12,090 3,12: 16,740 12,635 3,71: 15,896 11,699 3,79: 17,045 13,679 3,02: 16,593 12,905 3,22: 18,113 13,881 3,83: 16,698 12,443 3,82: 17,118 13,670 3,08: 17,638 13,880 3,29:		s
Period	Energy	Soli- darity	Tobacco	Insurance	Motor vehicle	Electri-	Alcohol	Other	Tax on the acqui- sition of land and	Inherit- ance	Betting and lottery	Other	Total	Local business	property
Periou	tax	surcharge	ldX	tax	tax	city tax	tax	Other	buildings	tax	tax	Other	TOLAT	ldX 2	taxes
2011 2012 2013 2014	40,036 39,305 39,364 39,758	12,781 13,624 14,378 15,047	14,414 14,143 13,820 14,612	10,755 11,138 11,553 12,046	8,422 8,443 8,490 8,501	7,247 6,973 7,009 6,638	2,149 2,121 2,102 2,060	3,329 4,047 3,737 3,143	6,366 7,389 8,394 9,339	4,246 4,305 4,633 5,452	1,420 1,432 1,635 1,673	1,064 1,076 1,060 1,091	55,398 56,549	42,345 43,027	11,674 12,017 12,377
2015 2016	39,594 40,091	15,930 16,855	14,921 14,186	12,419 12,763	8,805 8,952	6,593 6,569	2,070 2,070	3,872 2,955	11,249 12,408	6,290 7,006	1,712 1,809	1,088 1,119	60,396 65,319	45,752 50,103	13,215 13,654
2017	41,022	17,953	14,399	13,269	8,948	6,944	2,094	- 4,695	13,139	6,114	1,837	1,115			'
2016 Q1 Q2 Q3 Q4	4,620 9,860 10,149 15,461	3,979 4,470 3,938 4,468	2,722 4,139 3,010 4,315	5,946 2,269 2,510 2,038	2,489 2,366 2,198 1,899	1,685 1,515 1,641 1,728	565 473 499 532	547 691 911 806	3,217 2,952 3,050 3,189	1,668 2,283 1,501 1,554	451 451 446 460	336 267 266 251	16,740 15,896	12,635 11,699	3,121 3,715 3,794 3,024
2017 Q1 Q2 Q3 Q4	4,812 10,091 10,497 15,622	4,324 4,809 4,144 4,677	2,637 3,634 3,867 4,261	6,178 2,353 2,669 2,070	2,536 2,374 2,132 1,906	1,746 1,784 1,628 1,786	578 476 502 538	553 -5,652 -324 727	3,359 3,129 3,394 3,257	1,641 1,538 1,497 1,438	490 474 417 456	343 265 273 233	18,113 16,698	13,881 12,443	3,228 3,832 3,824 3,082
2018 Q1	4,865	4,587	2,425	6,388	2,602	1,725	591	569	3,576	1,431	479	350	17,638	13,880	3,291
2017 Apr May	2,994 3,583	1,138 1,226	1,218 1,146	751 944	756 774	582 516	140 182	211 208	926 1,130	503 472	158 159	82 90			
2018 Apr May	3,405 3,145	1,198 1,354	960 1,470	788 980	742 799	591 540	134 191	218 202	1,121 1,052	992 522	163 147	79 87			

Sources: Federal Ministry of Finance, Federal Statistical Office and Bundesbank calculations. **1** For the sum total, see Table X. 6. **2** Including revenue from offshore wind farms.

8 German pension insurance scheme: budgetary development and assets*

€ million

	Revenue 1,2			Expenditure 1,2				Assets 1,4						
		of which			of which									
Period	Total	Contri- butions 3	Payments from central govern- ment	Total	Pension payments	Pen- sioners' health insurance	Deficit surplu		Total	Deposits 5	Securities	Equity interests, mort- gages and other loans 6	Real estate	Memo item Adminis- trative assets
2011	254,968	177,424	76,200	250,241	212,602	15,015	+	4,727	24,965	22,241	2,519	88	117	4,379
2012	259,700	181,262	77,193	254,604	216,450	15,283	+	5,096	30,481	28,519	1,756	104	102	4,315
2013	260,166	181,991	77,067	258,268	219,560	15,528	+	1,898	33,114	29,193	3,701	119	100	4,250
2014	269,115	189,080	78,940	265,949	226,204	15,978	+	3,166	36,462	32,905	3,317	146	94	4,263
2015	276,129	194,486	80,464	277,717	236,634	16,705	-	1,588	35,556	32,795	2,506	167	88	4,228
2016	286,399	202,249	83,154	288,641	246,118	17,387	-	2,242	34,094	31,524	2,315	203	52	4,147
2017	299,826	211,424	87,502	299,297	255,261	18,028	+	529	35,366	33,740	1,335	238	53	4,032
2015 Q1	65,923	45,653	20,025	68,435	58,671	4,125	-	2,512	34,084	31,583	2,262	148	92	4,255
Q2	68,700	48,483	19,945	68,443	58,390	4,113	+	257	34,319	31,797	2,276	152	93	4,254
Q3	67,538	47,280	20,006	70,165	59,931	4,228	-	2,627	32,246	29,722	2,276	156	92	4,259
Q4	73,393	53,096	19,971	70,326	59,963	4,233	+	3,067	35,574	32,794	2,506	158	117	4,242
2016 Q1	68,182	47,397	20,665	70,076	60,143	4,239	-	1,894	33,865	31,194	2,406	179	86	4,223
Q2	71,291	50,372	20,548	70,418	60,097	4,238	+	873	34,427	31,892	2,265	183	87	4,220
Q3	70,218	49,333	20,670	73,782	63,081	4,453	-	3,564	31,412	28,776	2,365	187	84	4,213
Q4	76,136	55,171	20,733	74,016	63,117	4,450	+	2,120	34,088	31,529	2,315	192	53	4,161
2017 Q1	71,301	49,388	21,715	73,731	63,263	4,460	-	2,430	31,660	29,133	2,270	205	52	4,140
Q2	74,581	52,739	21,632	73,785	63,016	4,440	+	796	32,535	30,372	1,901	210	52	4,136
Q3	73,295	51,374	21,738	75,569	64,628	4,560	-	2,274	30,801	28,831	1,701	214	54	4,115
Q4	79,956	57,910	21,790	75,842	64,694	4,562	+	4,114	35,362	33,750	1,335	224	53	4,045
2018 Q1	74,368	51,726	22,489	75,482	64,885	4,569	-	1,114	34,219	32,775	1,146	240	58	4,029

Sources: Federal Ministry of Labour and Social Affairs and German pension insurance scheme. * Excluding the German pension insurance scheme for the mining, railway and maritime industries. 1 The final annual figures generally differ from the total of the reported provisional quarterly figures as the latter are not revised sub-

sequently. 2 Including financial compensation payments. Excluding investment spending and proceeds. 3 Including contributions for recipients of government cash benefits. 4 Largely corresponds to the sustainability reserves. End of year or quarter. 5 Including cash. 6 Excluding loans to other social security funds.

9 Federal Employment Agency: budgetary development*

€ million

	Revenue				Expenditure							-		Deficit
		of which				of which								offsetting
Period	Total 1	Contri- butions	Insolvency compen- sation levy	Central government subscriptions	Total	Unemploy- ment benefit 2	Short-time working benefits 3	Job promotion 4	Re- integration payment 5	Insolvency benefit payment	Adminis- trative expend- iture 6	Defi surp		grant or loan from central govern- ment
2011	37,563	25,433	37	8,046	37,524	13,776	1,324	8,369	4,510	683	5,090	+	40	_
2012	37,429	26,570	314	7,238	34,842	13,823	828	6,699	3,822	982	5,117	+	2,587	-
2013	32,636	27,594	1,224	245	32,574	15,411	1,082	6,040		912	5,349	+	61	-
2014	33,725	28,714	1,296	-	32,147	15,368	710	6,264		694	5,493	+	1,578	-
2015	35,159	29,941	1,333	_	31,439	14,846	771	6,295		654	5,597	+	3,720	-
2016	36,352	31,186	1,114	-	30,889	14,435	749	7,035		595	5,314	+	5,463	-
2017	37,819	32,501	882	-	31,867	14,055	769	7,043		687	6,444	+	5,952	-
2015 Q1	8,209	6,969	310	-	8,599	4,267	387	1,586		165	1,287	-	390	-
Q2	8,758		326	-	7,856	3,758	214	1,591		172	1,318	+	902	-
Q3	8,573	7,285	329	-	7,319	3,501	82	1,455		164	1,368	+	1,254	-
Q4	9,619	8,220	367	-	7,665	3,320	87	1,662		152	1,624	+	1,954	-
2016 Q1	8,376	7,271	261	-	7,984	4,083	395	1,739		150	984	+	393	-
Q2	8,991	7,737	278	-	7,807	3,648	203	1,847		147	1,288	+	1,184	-
Q3	8,877	7,609	276	-	7,349	3,428	74	1,608		165	1,399	+	1,529	-
Q4	10,108	8,569	299	-	7,750	3,276	77	1,841		134	1,642	+	2,358	-
2017 Q1	8,859	7,564	204	-	8,834	3,973	478	1,772		146	1,749	+	26	-
Q2	9,355	8,112	227	-	7,964	3,529	173	1,802		155	1,577	+	1,391	-
Q3	9,159	7,897	210	-	7,281	3,360	63	1,646		171	1,402	+	1,878	-
Q4	10,446	8,929	241	-	7,789	3,193	55	1,823		215	1,717	+	2,657	-
2018 Q1	9,167	7,926	151	_	9,546	3,826	415	1,742		174	2,625	-	379	-

Source: Federal Employment Agency. * Including transfers to the civil servants' pension fund. 1 Excluding central government deficit offsetting grant or loan. 2 Unemployment benefit in case of unemployment. 3 Including seasonal short-time working benefits and restructuring short-time working benefits, restructuring measures and refunds of social security contributions. 4 Vocational training, measures to

encourage job take-up, rehabilitation, compensation top-up payments and promotion of business start-ups. **5** Until 2012. From 2005 to 2007: compensatory amount. **6** Including collection charges to other statutory social security funds, excluding administrative expenditure within the framework of the basic allowance for job seekers.

10 Statutory health insurance scheme: budgetary development

€ million

	Revenue 1			Expenditure 1									
		of which			of which								
Period	Total	Contri- butions 2	Central govern- ment funds 3	Total	Hospital treatment	Pharma- ceuticals	Medical treatment	Dental treatment 4	Thera- peutical treatment and aids	Sickness benefits	Adminis- trative expend- iture 5	Defici surplu	
2011 2012 2013 2014	189,049 193,314 196,405 203,143	170,875 176,388 182,179 189,089	15,300 14,000 11,500 10,500	179,599 184,289 194,537 205,589	58,501 60,157 62,886 65,711	28,939 29,156 30,052 33,093	29,056 29,682 32,799 34,202	11,651 11,749 12,619 13,028	11,193 11,477 12,087 13,083	8,529 9,171 9,758 10,619	9,488 9,711 9,979 10,063	+ + + -	9,450 9,025 1,867 2,445
2015 2016 2017	210,147 223,692 233,814	195,774 206,830 216,227	11,500 14,000 14,500	213,727 222,936 230,773	67,979 70,450 72,303	34,576 35,981 37,389	35,712 37,300 38,792	13,488 13,790 14,070	13,674 14,256 14,776	11,227 11,677 12,281	10,482 11,032 10,912	- + +	3,580 757 3,041
2015 Q1 Q2 Q3 Q4	50,407 51,850 51,888 55,872	46,846 48,371 48,472 52,085	2,875 2,875 2,875 2,875	53,255 53,351 52,884 54,124	17,532 17,157 16,899 16,553	8,554 8,661 8,621 8,773	8,961 8,976 8,808 8,998	3,379 3,385 3,262 3,449	3,216 3,376 3,398 3,618	2,935 2,730 2,732 2,834	2,360 2,433 2,508 3,102	- - - +	2,848 1,501 996 1,747
2016 Q1 Q2 Q3 Q4	53,320 54,988 55,632 59,552	49,292 51,009 51,377 55,146	3,500 3,500 3,500 3,500	55,424 55,603 55,114 56,832	18,044 17,686 17,421 17,342	8,879 9,005 8,929 9,194	9,374 9,362 9,166 9,351	3,470 3,478 3,399 3,526	3,419 3,528 3,585 3,698	2,955 2,963 2,842 2,912	2,458 2,599 2,628 3,291	- + +	2,104 615 517 2,720
2017 Q1 Q2 Q3 Q4	55,809 57,801 57,617 62,391	51,632 53,621 53,442 57,526	3,625 3,625 3,625 3,625	57,716 57,502 57,202 58,527	18,632 17,973 17,802 17,878	9,215 9,239 9,330 9,627	9,807 9,822 9,629 9,712	3,559 3,614 3,374 3,566	3,516 3,748 3,679 3,792	3,173 3,043 2,980 3,080	2,514 2,589 2,731 3,095	- + +	1,907 298 415 3,865
2018 Q1	57,788	53,670	3,625	59,854	19,028	9,569	10,045	3,656	3,763	3,370	2,614	-	2,067

Source: Federal Ministry of Health. 1 The final annual figures generally differ from the total of the reported provisional quarterly figures as the latter are not revised subsequently. Excluding revenue and expenditure as part of the risk structure compensation scheme. 2 Including contributions from subsidised low-paid part-time employ-

ment. **3** Federal grant and liquidity assistance. **4** Including dentures. **5** Net, ie after deducting reimbursements for expenses for levying contributions incurred by other social insurance funds.

11 Statutory long-term care insurance scheme: budgetary development*

€ million

	Revenue 1		Expenditure 1	1						
				of which						
Period	Total	of which Contributions 2	Total	Non-cash care benefits	In-patient care	Nursing benefit	Contributions to pension insurance scheme 3	Administrative expenditure	Deficit/ surplus	
2011	22,294	22,145	21,962	3,002	9,700	4,735	881	1,034	+	331
2012	23,082	22,953	22,988	3,135	9,961	5,073	881	1,083	+	95
2013	24,972	24,891	24,405	3,389	10,058	5,674	896	1,155	+	567
2014	25,974	25,893	25,457	3,570	10,263	5,893	946	1,216	+	517
2015	30,825	30,751	29,101	3,717	10,745	6,410	960	1,273	+	1,723
2016	32,171	32,100	30,936	3,846	10,918	6,673	983	1,422	+	1,235
2017	36,305	36,248	38,862	4,609	13,014	10,010	1,611	1,606	-	2,557
2015 Q1	7,252	7,228	6,906	906	2,655	1,571	236	333	+	346
Q2	7,611	7,592	7,139	902	2,666	1,591	239	311	+	472
Q3	7,626	7,609	7,390	930	2,701	1,613	239	326	+	236
Q4	8,198	8,180	7,571	966	2,722	1,682	240	295	+	626
2016 Q1	7,600	7,578	7,587	941	2,703	1,613	238	389	+	13
Q2	7,918	7,901	7,659	949	2,724	1,665	244	331	+	259
Q3	7,958	7,942	7,810	961	2,746	1,682	247	373	+	147
Q4	8,550	8,535	7,941	975	2,741	1,877	250	322	+	608
2017 Q1	8,558	8,538	9,092	1,046	3,194	2,261	289	405	_	534
Q2	8,978	8,962	9,379	1,080	3,230	2,440	347	397	_	400
Q3	8,945	8,932	9,944	1,210	3,289	2,562	422	411	_	999
Q4	9,620	9,610	10,110	1,158	3,285	2,731	470	387	_	490
2018 Q1	8,961	8,948	10,146	1,192	3,233	2,603	496	424	_	1,185

Period (End of year or quarter) 2011 2012 2013 2014 2015 2016 2017 **p** 2015 Q1 Q2 Q3 Q4 2016 Q1 Q2 Q3 Q4 2017 Q1 **p** Q2 **p** Q3 **p** Q4 p 2018 Q1 **p**

Source: Federal Ministry of Health. * Including transfers to the long-term care provident fund. 1 The final annual figures generally differ from the total of the reported provisional quarterly figures as the latter are not revised subsequently. 2 Since 2005

including special contributions for childless persons (0.25% of income subject to insurance contributions). **3** For non-professional carers.

12 Central government: borrowing in the market

€ million

	Total new borro		wing 1	ı	of wl			hich
Daviad		2	N-4		Chan in mo mark	oney et	marl	oney ket
Period	Gross	Z	Net		loans		aepo	osits 3
2011	+	264,572	+	5,890	-	4,876	-	9,036
2012	+	263,334	+	31,728	+	6,183	+	13,375
2013	+	246,781	+	19,473	+	7,292	-	4,601
2014	+	192,540	-	2,378	-	3,190	+	891
2015	+	167,655	-	16,386	-	5,884	-	1,916
2016	+	182,486	-	11,331	-	2,332	-	16,791
2017	+	171,906	+	4,531	+	11,823	+	2,897
2015 Q1	+	52,024	-	3,086	+	4,710	-	7,612
Q2	+	36,214	-	5,404	-	12,133	+	6,930
Q3	+	46,877	-	1,967	-	806	-	1,091
Q4	+	32,541	-	5,929	+	2,344	-	142
2016 Q1	+	61,598	+	10,650	+	8,501	-	19,345
Q2	+	60,691	+	4,204	+	3,694	+	4,084
Q3	+	33,307	-	13,887	-	18,398	-	4,864
Q4	+	26,890	-	12,297	+	3,872	+	3,333
2017 Q1	+	47,749	-	5,700	+	6,178	-	2,428
Q2	+	42,941	+	5,281	+	318	+	4,289
Q3	+	44,338	+	3,495	+	587	+	941
Q4	+	36,878	+	1,455	+	4,741	+	95
2018 Q1	+	42,934	-	4,946	-	5,138	+	3,569
Q2	+	43,602	l –	5,954	l –	166	-	6,139

Source: Federal Republic of Germany – Finance Agency.

1 Including the Financial Market Stabilisation Fund, the Investment and Repayment Fund and the Restructuring Fund for Credit Institutions.

2 After deducting repurchases.

3 Excluding the central account balance with the Deutsche Bundesbank.

13 General government: debt by creditor*

€ million

	Banking sys	-banks			
Total	Bundes- bank	Domestic MFIs pe	Other do- mestic fi- nancial cor- porations pe	Other domestic creditors 1	Foreign creditors pe
2,125,099	11,785	605,907	206,631	53,974	1,246,80
2,202,307	12,126	629,513	199,132	60,140	1,301,39
2,190,496	12,438	639,922	190,555	43,969	1,303,61
2,192,004	12,774	610,509	190,130	44,915	1,333,67
2,161,775	85,952	597,515	186,661	44,977	1,246,67
2,145,473	205,391	574,727	179,755	41,352	1,144,24
2,092,643	319,159	522,427	175,618	39,207	1,036,23
2,198,049	20,802	619,047	189,048	44,414	1,324,73
2,163,452	42,807	599,029	187,280	44,792	1,289,54
2,165,441	63,558	604,195	188,165	44,785	1,264,73
2,161,775	85,952	597,515	186,661	44,977	1,246,67
2,170,197	108,746	612,193	183,160	41,334	1,224,76
2,173,554	142,139	600,804	181,372	39,529	1,209,70
2,166,995	172,567	587,282	179,359	38,827	1,188,95
2,145,473	205,391	574,727	179,755	41,352	1,144,24
2,118,194	239,495	559,898	178,219	39,505	1,101,07
2,112,479	265,130	546,493	176,810	38,785	1,085,26
2,105,556	290,214	533,924	176,646	39,130	1,065,64
2,092,643	319,159	522,427	175,618	39,207	1,036,23
2,071,401	329,387	503,643	176,495	37,902	1,023,97

Source: Bundesbank calculations based on data from the Federal Statistical Office. * As defined in the Maastricht Treaty. 1 Calculated as a residual.

14. Maastricht debt by instrument

mıl	
	IIOr

	CTITILION		Debt securities by orig	inal maturity	Loans by original matu	ıritv	Memo item 2	
Period (End of year or quarter)	Total	Currency and deposits 1	Short-term debt securities (up to one year)	Long-term debt securities (more than one year)	Short-term loans	Long-term loans	Debt vis-à-vis other government sub-sectors	Claims vis-à-vis other government sub-sectors
	General gove	ernment						
2011 2012 2013 2014	2,125,099 2,202,307 2,190,496 2,192,004	10,429 9,742 10,592 12,150	116,289 106,945 85,836 72,618	1,345,967 1,441,406 1,470,698 1,501,494	194,442 149,015 124,821 120,540	457,972 495,199 498,547 485,202		
2015 Q1 Q2 Q3 Q4	2,198,049 2,163,452 2,165,441 2,161,775	10,652 10,546 10,727 14,303	77,601 73,874 71,482 65,676	1,491,918 1,492,759 1,497,360 1,499,119	137,777 109,759 111,735 109,509	480,102 476,514 474,136 473,167	· :	
2016 Q1 Q2 Q3 Q4	2,170,197 2,173,554 2,166,995 2,145,473	11,976 12,181 15,370 15,845	69,372 76,710 77,249 69,715	1,491,147 1,485,055 1,491,981 1,484,384	129,934 136,482 123,297 115,296	467,768 463,126 459,098 460,233		
2017 Q1 P Q2 P Q3 P Q4 P	2,118,194 2,112,479 2,105,556 2,092,643	12,891 15,196 16,161 14,651	60,701 54,196 47,938 48,002	1,479,170 1,487,366 1,490,072 1,485,792	112,664 107,319 105,907 103,045	452,768 448,403 445,478 441,154	· · · · · · · · · · · · · · · · · · ·	
2018 Q1 P	2,071,401 Central gove	rnment	48,105	1,480,643	94,498	435,616		· .
2011 2012 2013 2014 2015 Q1	1,344,082 1,387,857 1,390,440 1,396,496 1,397,998	10,429 9,742 10,592 12,150 10,652	104,121 88,372 78,996 64,230 60,213	1,017,210 1,088,796 1,113,029 1,141,973 1,136,442	138,112 88,311 64,897 54,315 67,501	74,210 112,636 122,926 123,829 123,190	1,465 2,696 1,202 3,490	11,382 11,354 10,303 12,833 14,566
Q2 Q3 Q4 2016 Q1 Q2 Q3	1,380,556 1,374,737 1,372,626 1,382,491 1,391,145 1,381,065	10,546 10,727 14,303 11,976 12,181 15,370	59,283 52,289 49,512 49,030 59,399 61,408	1,141,784 1,142,896 1,139,060 1,138,068 1,129,888 1,134,336	45,327 44,812 45,149 58,260 65,048 46,711	123,616 124,014 124,619 125,156 124,629 123,240	3,359 3,411 2,932 2,833 2,803 2,634	10,879 11,436 13,577 10,025 11,367 9,042
Q4 2017 Q1 p Q2 p Q3 p Q4 p	1,366,847 1,350,991 1,353,598 1,352,969 1,351,622	15,845 12,891 15,196 16,161 14,651	55,208 45,509 40,224 34,215 36,296	1,124,451 1,124,436 1,132,692 1,136,879 1,132,623	49,898 47,983 44,606 45,181 47,743	123,446 120,172 120,880 120,534 120,310	2,238 2,381 2,348 2,342 2,666	8,478 7,522 8,244 10,320 10,761
2018 Q1 p	1,338,835	12,540	35,919	1,133,439	37,162	119,775	2,645	9,956
2011	State govern	ment	12.404	220.024	11.015	200 402	12.246	2.174
2011 2012 2013 2014	653,834 683,613 665,560 660,076	- - - -	12,404 18,802 6,847 8,391	330,924 355,756 360,706 361,916	11,015 12,314 11,573 19,003	299,492 296,742 286,433 270,766	12,246 13,197 12,141 14,825	3,174 2,968 2,655 2,297
2015 Q1 Q2 Q3 Q4	668,579 647,822 655,486 656,454	- - - -	17,391 14,595 19,197 16,169	357,929 353,507 357,262 362,376	23,267 15,592 18,788 18,510	269,991 264,129 260,240 259,399	16,462 12,909 13,577 15,867	4,715 4,731 4,841 4,218
2016 Q1 Q2 Q3 Q4	649,631 646,105 646,514 639,506	- - - -	20,347 17,318 15,848 14,515	355,304 357,069 359,618 361,996	21,563 23,455 26,149 16,331	252,416 248,263 244,899 246,664	12,358 13,860 11,685 11,408	4,230 4,061 3,871 3,376
2017 Q1 P Q2 P Q3 P Q4 P	628,977 622,217 620,065 612,117	- - - -	15,201 13,981 13,731 11,716	356,818 356,896 355,606 355,628	15,433 14,990 16,519 16,168	241,525 236,349 234,209 228,605	10,582 11,285 13,573 14,411	3,501 3,518 3,476 3,631
2018 Q1 P	602,085 Local govern	- ment	12,196	350,397	15,076	224,416	13,383	3,591
2011 2012 2013 2014	143,510 147,452 150,569 151,987	- - - -	- - - -	381 423 646 1,297	46,550 49,417 49,973 50,969	96,579 97,612 99,950 99,721	3,504 3,124 2,523 1,959	360 802 530 734
2015 Q1 Q2 Q3 Q4	152,384 152,232 153,088 152,227	- - - -	- - - -	1,597 1,847 1,997 2,047	52,521 51,857 52,438 51,578	98,266 98,528 98,653 98,602	2,325 2,281 2,343 2,143	538 512 477 463
2016 Q1 Q2 Q3 Q4	154,423 154,034 154,832 153,441	- - -	- - -	2,076 2,453 2,455 2,404	52,566 51,964 52,116 50,302	99,781 99,617 100,261 100,735	2,348 2,216 2,123 1,819	476 503 527 566
2017 Q1 P Q2 P Q3 P Q4 P 2018 Q1 P	152,037 151,430 149,654 147,220 147,460	- - - - -	- - - -	2,645 2,672 2,687 2,960 2,427	49,692 49,061 47,752 43,710 45,606	99,700 99,696 99,214 100,549 99,427	1,998 2,028 1,967 2,031 1,926	558 566 689 692 677
	,	. '			5,500	33,727	.,520	. 5//1

For footnotes see end of table.

14. Maastricht debt by instrument (cont'd)

€ million

			Debt securities by orig	inal maturity	Loans by original matu	urity	Memo item 2	
Period (End of year or quarter)	Total	Currency and deposits 1	Short-term debt securities (up to one year)	Long-term debt securities (more than one year)	Short-term loans (up to one year)	Long-term loans (more than one year)	Debt vis-à-vis other government sub-sectors	Claims vis-à-vis other government sub-sectors
	Social securi	ty funds						
2011	1,331	l -	-	-	237	1,094	-	2,743
2012	1,171	-	-	-	195	976	-	2,661
2013	1,287	-	-	-	360	927	-	3,872
2014	1,430	-	-	-	387	1,043	-	2,122
2015 Q1	1,365	-	-	_	329	1,036	-	2,457
Q2	1,391	-	-	-	355	1,036	-	2,428
Q3	1,460	-	-	-	450	1,010	-	2,578
Q4	1,411	-	-	-	446	965	-	2,685
2016 Q1	1,211	-	_	_	458	753	_	2,828
Q2	1,147	-	-	-	443	704	-	2,948
Q3	1,025	-	-	-	334	691	-	3,002
Q4	1,143	-	-	-	473	670	-	3,044
2017 Q1 P	1,150	-	_	_	504	646	_	3,380
Q2 P	895	-	-	-	290	605	-	3,333
Q3 P	750	-	-	-	184	566	-	3,396
Q4 p	792	-	-	-	247	545	-	4,025
2018 Q1 P	975	_	-	_	424	551	_	3,729

Sources: Bundesbank calculations based on data from the Federal Statistical Office and the Federal Republic of Germany – Finance Agency. 1 Particularly liabilities resulting from coins in circulation. 2 Besides direct loan relationships claims and debt

vis-à-vis other government sub-sectors also comprise securities holdings purchased on the market. No entry for general government as debt and claims are consolidated between different government sub-sectors.

15. Maastricht debt of central government by instrument and category

€ million

		Currency and	deposits 2	Debt securitie	s								
			of which 3		of which 3								
Period (End of year or quarter)	Total 1	Total 1	Federal Day Bond	Total 1	Federal bonds (Bunds)	Federal notes (Bobls)	Inflation- linked Federal bonds (Bunds) 4	Inflation- linked Federal notes (Bobls) 4	Capital indexation of inflation- linked securities	Federal Treasury notes (Schätze) 5	Treasury discount paper (Bubills) 6	Federal savings notes	Loans 1
2007 2008 2009	984,256 1,016,364 1,082,644	6,675 12,466 9,981	3,174 2,495	917,584 928,754 1,013,072	564,137 571,913 577,798	173,949 164,514 166,471	10,019 12,017 16,982	3,444 7,522 7,748	506 1,336 1,369	102,083 105,684 113,637	37,385 40,795 104,409	10,287 9,649 9,471	59,997 75,144 59,592
2010 2011 2012 2013 2014	1,334,021 1,344,082 1,387,857 1,390,440 1,396,496	10,890 10,429 9,742 10,592 12,150	1,975 2,154 1,725 1,397 1,187	1,084,019 1,121,331 1,177,168 1,192,025 1,206,203	602,624 615,200 631,425 643,200 653,823	185,586 199,284 217,586 234,759 244,633	25,958 29,313 35,350 41,105 48,692	9,948 14,927 16,769 10,613 14,553	2,396 3,961 5,374 4,730 5,368	126,220 130,648 117,719 110,029 103,445	85,867 58,297 56,222 50,004 27,951	8,704 8,208 6,818 4,488 2,375	239,112 212,322 200,947 187,822 178,144
2015 2016 2017 P	1,372,626 1,366,847 1,351,622	14,303 15,845 14,651	1,070 1,010 966	1,188,572 1,179,659 1,168,919	663,296 670,245 693,687	232,387 221,551 203,899	59,942 51,879 58,365	14,553 14,585 14,490	5,607 3,602 4,720	96,389 95,727 91,013	18,536 23,609 10,037	1,305 737 289	169,750 171,343 168,053
2015 Q1 Q2 Q3 Q4	1,397,998 1,380,556 1,374,737 1,372,626	10,652 10,546 10,727 14,303	1,155 1,133 1,106 1,070	1,196,655 1,201,068 1,195,185 1,188,572	653,801 664,278 655,574 663,296	235,849 228,755 242,085 232,387	52,507 56,437 58,192 59,942	14,583 14,543 14,528 14,553	4,211 5,626 5,308 5,607	102,203 101,090 98,087 96,389	26,495 27,535 24,157 18,536	2,271 2,031 1,677 1,305	190,691 168,943 168,825 169,750
2016 Q1 Q2 Q3 Q4	1,382,491 1,391,145 1,381,065 1,366,847	11,976 12,181 15,370 15,845	1,051 1,033 1,021 1,010	1,187,099 1,189,287 1,195,744 1,179,659	666,565 675,794 664,034 670,245	225,678 220,840 231,375 221,551	61,893 49,675 50,869 51,879	14,603 14,550 14,570 14,585	4,395 3,099 3,097 3,602	98,232 99,417 102,053 95,727	20,526 28,369 30,626 23,609	1,205 1,108 922 737	183,417 189,677 169,950 171,343
2017 Q1 P Q2 P Q3 P Q4 P	1,350,991 1,353,598 1,352,969 1,351,622	12,891 15,196 16,161 14,651	995 986 977 966	1,169,945 1,172,916 1,171,094 1,168,919	674,049 687,278 684,134 693,687	213,371 205,203 215,029 203,899	53,838 55,842 56,905 58,365	14,535 14,465 14,490 14,490	3,362 4,507 4,092 4,720	95,148 93,795 91,893 91,013	14,910 14,431 11,851 10,037	619 487 398 289	168,155 165,486 165,715 168,053
2018 Q1 p	1,338,835	12,540	951	1,169,358	699,638	193,811	60,778	14,455	4,421	94,282	9,031	219	156,937

Sources: Federal Republic of Germany – Finance Agency, Federal Statistical Office, and Bundesbank calculations. **1** Comprises all of central government, i.e. all extrabudgetary units in addition to core central government, including government-owned bad bank "FMS Wertmanagement" and liabilities attributed to central government from an economic perspective under the European System of Accounts

(ESA) 2010. **2** Particularly liabilities resulting from coins in circulation. **3** Issuances by the Federal Republic of Germany. Excluding issuers' holdings of own securities but including those held by other government entities. **4** Excluding inflation-induced indexation of capital. **5** Including medium-term notes issued by the Treuhand agency (expired in 2011). **6** Including Federal Treasury financing papers (expired in 2014).

1 Origin and use of domestic product, distribution of national income

	Т						2016		2017				2018
	2015	2016	2017	2015	2016	2017	Q3	Q4	Q1	Q2	Q3	Q4	Q1
			2017				[Q 3	Q4	Į Ų1	l Q2	l do	<u> </u>	<u> </u>
Item	Index 20	10=100		Annual p	ercentage	change							
At constant prices, chained													
l Origin of domestic product Production sector (excluding construction) Construction Wholesale/retail trade, transport	112.8 102.9	114.9 104.9	117.9 107.3	2.2	1.9 1.9	2.7 2.3	1.2 1.7	0.6	4.4 5.7	- 0.4 0.2		4.1 2.5	2.0
and storage, hotel and restaurant services Information and communication Financial and insurance	108.5 128.5	111.1 132.0	114.3 137.2	0.7 2.6	2.4 2.7	2.9 3.9	1.6 3.5	2.5 1.6	4.7 4.4	1.9 3.5		2.2 3.9	
activities Real estate activities Business services 1	104.3 103.3 108.1	107.4 103.9 110.0	105.1	- 0.7 0.2 1.9	3.0 0.6 1.8	- 0.1 1.1 2.4	4.1 0.4 1.7	2.3 0.5 1.5	0.6 1.3 3.8	- 0.4 0.5 0.7	- 0.5 1.3 2.6	0.1 1.5 2.3	
Public services, education and health Other services	105.3 99.3	107.7 100.2	110.0 101.5	2.2 0.7	2.2 0.9	2.2 1.3	2.3 1.2	2.4 1.0	2.6 2.7	2.0 0.2		1.8 0.7	1.5 0.0
Gross value added	108.3	110.4	112.9	1.5	1.9	2.3	1.7	1.4	3.5	0.8	2.4	2.5	1.7
Gross domestic product 2	108.6	110.7	113.1	1.7	1.9	2.2	1.7	1.3	3.4	1.0	2.2	2.3	1.6
II Use of domestic product Private consumption ³ Government consumption Machinery and equipment Premises Other investment ⁴ Changes in inventories ^{5, 6}	106.1 108.0 111.1 108.3 117.3	108.3 111.9 113.4 111.3 123.8	113.7	1.7 2.9 3.9 - 1.4 5.5 - 0.3	2.1 3.7 2.2 2.7 5.5 – 0.2	1.8 1.5 4.0 2.7 3.5 0.2	1.7 3.4 1.4 2.1 6.1 0.2	1.7 3.0 - 2.6 0.4 2.6 0.4	2.1 1.5 3.6 5.6 3.9 0.1	1.9 1.4 1.7 1.3 3.4 0.5	1.6 4.5 2.8 3.2	1.1 1.6 6.0 1.7 3.4 – 0.1	4.4 1.3
Domestic demand Net exports 6 Exports Imports	106.1 124.7 120.5	108.7 128.0 125.2	111.1 133.9 131.6	1.6 0.2 5.2 5.6	2.4 - 0.3 2.6 3.9	2.2 0.2 4.6 5.2	2.4 - 0.5 1.3 2.8	1.9 - 0.5 2.6 4.3	2.6 1.0 6.9 5.6	2.4 - 1.1 1.4 4.7	0.0	1.6 0.8 5.5 4.6	0.1 3.0
Gross domestic product 2	108.6			1.7		2.2		1.3	3.4				_
At current prices (€ billion) III Use of domestic product Private consumption 3	1,630.5			2.3	2.7	3.5	2.2	2.8	4.0	3.5	_	. 2.7	
Government consumption Machinery and equipment Premises Other investment 4 Changes in inventories 5	587.1 200.8 291.0 112.5 – 21.5	615.4 205.8 304.5 119.7 – 26.4	637.9 214.6 323.0 125.4	4.1 4.7 0.4 7.0	4.8 2.5 4.6 6.4	3.6 4.3 6.1 4.8	4.5 1.7 4.1 6.9	4.1 - 2.3 2.5 3.7	3.3 3.8 8.4 4.9	3.3 2.0 4.5 4.8	3.9 4.8 6.2	4.1 6.3 5.6 4.7	3.2 4.9
Domestic use Net exports	2,800.3 243.3	250.6	247.2	2.6	3.3	4.2	3.2	3.2	4.4	4.4	4.5	3.6	
Exports Imports	1,426.7 1,183.4	1,199.4	1,294.3	6.4 4.1	1.6 1.4	6.3 7.9	- 0.0 0.2	2.3 3.9	8.6 9.8	3.5 8.2	7.5	6.8 6.4	3.6
Gross domestic product 2	3,043.7	3,144.1	3,263.4	3.8	3.3	3.8	2.9	2.5	4.3	2.6	4.3	4.0	3.5
IV Prices (2010=100) Private consumption Gross domestic product Terms of trade	106.2 108.7 102.1	106.9 110.1 103.7	108.7 111.8 102.7	0.6 2.0 2.7	0.6 1.3 1.5	1.7 1.5 – 1.0	0.5 1.2 1.3	1.1 1.2 0.2	1.9 0.9 – 2.3	1.6 1.6 – 1.2	2.0		1.8
V Distribution of national income Compensation of employees Entrepreneurial and property	1,542.3	1,600.3	1,668.9	3.9	3.8	4.3	3.7	3.9	4.2	4.4	4.4	4.1	4.6
income	722.6	737.7	765.8	3.8	2.1	3.8	- 0.2	- 1.2	4.1	- 0.9	6.4	5.5	2.9
National income Memo item: Gross national	2,264.9			3.8	3.2	4.1	2.3	2.5	4.2	2.7		4.5	
income	3,099.8	3,197.2	3,323.6	3.7	3.1	4.0	2.4	2.5	4.1	2.9	4.6	4.2	3.9

Source: Federal Statistical Office; figures computed in May 2018. 1 Professional, scientific, technical, administration and support service activities. 2 Gross value added plus taxes on products (netted with subsidies on products). 3 Including non-profit in-

stitutions serving households. 4 Intellectual property rights (inter alia, computer software and entertainment, literary or artistic originals) and cultivated assets. 5 Including net increase in valuables. 6 Contribution of growth to GDP.

2 Output in the production sector*

Adjusted for working-day variations •

	Adjusted for v	vorking-day va I	riations •									
		of which:										
				Industry								
					of which: by n	nain industrial	grouping		of which: by	economic secto	r	
	Production sector, total	Construc- tion	Energy	Total	Inter- mediate goods	Capital goods	Durable goods	Non- durable goods	Manu- facture of basic metals and fabricated metal products	Manu- facture of computers, electronic and optical products and electrical equipment	Machinery and equipment	Motor vehicles, trailers and semi- trailers
	2015=10	0										
% of total 1 Period	100.00	14.04	6.37	79.60	29.44	36.96	2.28	10.92	10.27	9.95	12.73	14.14
2014	98.8	101.9	95.2	99.3	99.9	98.8	97.5	100.1	99.7	99.0	100.0	99.8
2015	99.8	99.6	100.1	99.7	99.8	99.7	99.7	99.8	99.8	99.7	99.7	99.6
2016 2017	101.6 104.9	105.3 108.7	98.7 98.8	101.1 104.8	100.9 104.9	101.3 105.0	102.7 106.9	101.0 103.0	101.6 106.2	101.0 107.0	99.6 104.1	102.1 105.3
2017 Q1	98.9	84.8	104.5	100.9	102.2	100.0	106.1	99.4	103.3	102.3	95.8	105.0
Q2 Q3	104.4 106.5	111.1 116.6	93.8 92.4	104.1 105.8	105.4 107.4	104.0 104.7	105.6 106.3	100.4 105.2	107.0 107.8	104.6 109.5	101.8 103.0	106.0 105.2
Q4	110.0	122.3	104.6	108.2	104.6	111.3	109.6	107.1	106.7	111.6	115.9	104.8
2018 Q1	102.7	87.8	105.1	105.2	106.1	104.3	108.9	104.7	107.3	108.3	100.5	109.5
2017 May June	103.0 107.1	109.5 114.6	94.8 91.3	102.5 107.1	104.3 106.8	101.7 108.7	103.1 108.0	100.4 102.0	106.5 109.1	102.0 108.9	98.7 109.1	104.5 106.4
July 2 Aug 2	106.7 101.2	119.2 112.3	91.3 93.0	105.8 99.9	108.6 103.5	104.1 96.4	101.6 98.2	104.6 102.6	108.6 102.2	109.2 104.3	101.8 94.9	103.9 95.6
Sep	111.5	118.4	93.0	111.8	110.2	113.7	119.0	108.4	112.5	115.0	112.4	116.1
Oct Nov	109.6 116.0	120.9 123.4	103.0 104.3	108.1 115.6	109.8 111.6	106.4 119.3	114.1 117.7	108.2 113.2	112.0 115.0	109.6 117.4	103.1 115.9	108.2 122.4
Dec	104.3	122.7	106.6	100.9	92.4	108.2	97.1	99.8	93.2	107.9	128.6	83.8
2018 Jan r	95.7	75.2	106.0	98.5	102.4	93.8	102.7	102.8 99.4	101.5	102.0 104.3	87.9	99.4
Feb r Mar r	98.8 113.6	83.0 105.1	101.6 107.7	101.4 115.6	102.6 113.3	100.7 118.4	105.4 118.5	112.0	104.9 115.5	118.7	97.1 116.6	105.3 123.9
Apr x May x,p	104.6 106.2	109.2 113.7	92.7 90.4	104.8 106.2	105.5 107.7	105.0 104.3	103.4 103.8	102.6 109.4	108.0 108.6	103.8 105.8	99.8 101.2	112.0 108.1
	Annual p	ercentage	change									
2014	+ 1.5	+ 2.9	l – 3.8	+ 2.0	+ 1.8	+ 2.3	+ 0.4	+ 1.5	+ 2.9	+ 2.5	+ 1.2	+ 4.1
2015	+ 1.0	- 2.3	+ 5.1	+ 0.4	- 0.1	+ 0.9	+ 2.3	- 0.3	+ 0.1	+ 0.7	- 0.3	- 0.2
2016	+ 1.8	+ 5.7	- 1.4	+ 1.4	+ 1.1	+ 1.6	+ 3.0	+ 1.2	+ 1.8	+ 1.3	- 0.1	+ 2.5
2017	+ 3.2	+ 3.2	+ 0.1	+ 3.7	+ 4.0	+ 3.7	+ 4.1	+ 2.0	+ 4.5	+ 5.9	+ 4.5	+ 3.1
2017 Q1 Q2	+ 1.0 + 3.4	+ 0.8 + 5.2	- 0.3 + 2.7	+ 1.1 + 3.1	+ 1.3 + 3.4	+ 0.9 + 3.3	+ 2.8 + 4.7	+ 0.4 + 1.4	+ 2.0 + 4.0	+ 3.6 + 5.9	+ 1.5 + 4.3	± 0.0 + 2.1
Q3	+ 4.1	+ 3.2	- 1.8	+ 4.8	+ 5.2	+ 4.8	+ 6.1	+ 2.9	+ 6.3	+ 6.7	+ 4.7	+ 5.0
Q4 2018 Q1	+ 4.7 + 3.9	+ 3.3 + 3.5	+ 0.3 + 0.6	+ 5.3 + 4.2	+ 6.3 + 3.8	+ 5.4 + 4.3	+ 3.1 + 2.6	+ 3.2 + 5.4	+ 5.9 + 3.9	+ 7.4 + 5.9	+ 7.2 + 4.9	+ 5.7 + 4.3
2017 May June	+ 4.7 + 2.7	+ 5.2 + 4.2	+ 2.9 + 3.3	+ 4.7 + 2.4	+ 3.4 + 3.3	+ 6.4 + 1.9	+ 9.7 + 0.8	+ 1.9 + 1.9	+ 5.9 + 3.2	+ 7.3 + 4.0	+ 6.5 + 3.3	+ 7.6 - 0.7
July 2	+ 3.9	+ 2.8	- 2.7	+ 4.8	+ 5.4	+ 4.3	+ 5.3	+ 3.7	+ 6.8	+ 8.0	+ 5.5	+ 1.8
Aug 2 Sep	+ 4.4 + 4.0	+ 3.0 + 3.9	± 0.0 - 2.6	+ 5.0 + 4.5	+ 5.3 + 5.0	+ 5.7 + 4.5	+ 7.4 + 5.6	+ 2.2 + 2.9	+ 6.1 + 6.1	+ 6.8 + 5.4	+ 3.3 + 5.3	+ 9.3 + 4.6
Oct	+ 2.1	+ 3.2	+ 0.9	+ 2.0	+ 4.4	+ 0.6	+ 2.3	+ 0.7	+ 5.0	+ 3.5	+ 3.8	- 2.7
Nov Dec	+ 5.7 + 6.3	+ 3.7 + 2.9	- 0.7 + 0.7	+ 6.5 + 7.7	+ 6.8 + 7.9	+ 7.1 + 8.6	+ 4.8 + 2.1	+ 4.2 + 4.9	+ 4.9 + 8.1	+ 7.7 + 11.5	+ 5.2 + 12.1	+ 11.8 + 9.1
2018 Jan r	+ 6.1	+ 16.6	- 4.6	+ 5.8	+ 5.0	+ 6.0	+ 3.7	+ 7.3	+ 4.9	+ 6.4	+ 5.6	+ 5.4
Feb r Mar r	+ 2.1 + 3.6	- 1.3 - 0.6	+ 1.9 + 5.0	+ 2.6 + 4.3	+ 3.5 + 3.0	+ 1.6 + 5.4	+ 0.6 + 3.6	+ 4.2 + 4.7	+ 4.2 + 2.8	+ 5.2 + 6.1	+ 2.5 + 6.4	- 0.4 + 7.6
Apr ×	+ 1.4	- 0.1	- 2.8	+ 2.0	+ 0.3	+ 3.2	- 2.3	+ 4.0	+ 2.4	+ 0.8	+ 2.4	+ 4.6
May x,p	+ 3.1											

Source of the unadjusted figures: Federal Statistical Office. * For explanatory notes, see Statistical Supplement Seasonally adjusted business statistics, Tables II.10 to II.12. o Using JDemetra+ 2.2.1 (X13). 1 Share of gross value added at factor cost of the production sector in the base year 2015. 2 Influenced by a change in holiday

dates. \mathbf{x} Provisional; estimated and adjusted in advance by the Federal Statistical Office to the results of the Quarterly Production Survey and the Quarterly Survey in the specialised construction industry, respectively.

3 Orders received by industry *

Adjusted for working-day variations ${\bf o}$

		Adjusted for v	vorking-	day var	iations •														
					of which:														
														of which:					_
		Industry			Intermediate o	oods		Capital goods			Consumer goo	ods		Durable goods	5		Non-durable o	oods	_
			Annual percent age	t-		Annual percent age	-		Annual percent age			Annual percent- age			Annual percent age	t-		Annual percent age	-
Period	ŀ	2015=100	change		2015=100	change		2015=100	change		2015=100	change		2015=100	change		2015=100	change	-
		Total																	
2013 2014		95.2 97.8	+ +	2.4 2.7	100.0 100.6	+	0.9 0.6	92.6 96.2	++	4.6 3.9	92.5 96.8		2.0 4.6	95.2 95.8	++	2.4 0.6	91.7 97.1	++	2.0 5.9
2015 2016 2017		99.8 100.8 108.6	+ + +	2.0 1.0 7.7	99.8 98.9 109.4	- - +	0.8 0.9 10.6	99.8 101.9 108.5	+ + +	3.7 2.1 6.5	99.8 100.6 105.8	+	3.1 0.8 5.2	99.7 105.3 116.5	+ + +	4.1 5.6 10.6	99.8 99.0 102.2	+ - +	2.8 0.8 3.2
2017 May June		103.8 110.7	++	6.5 7.4	106.5 110.9	+ +	8.3 11.0	102.4 111.4	++	5.6 5.4	101.6 104.0		4.7 4.8	110.3 117.6	++	17.2 13.6	98.6 99.5	++	0.7 1.6
July Aug Sep		105.8 99.0 110.3	+ + +	6.3 9.8 11.0	108.8 104.9 108.9	+ + +	9.9 16.6 11.8	103.8 94.1 111.8	+ + +	4.4 5.6 11.4	107.8 107.9 107.0	+	5.0 8.2 6.2	108.8 115.3 126.2	+ + +	5.4 21.2 13.3	107.4 105.5 100.7	+ + +	4.8 4.1 3.5
Oct Nov Dec		112.9 114.8 115.2	+ + +	9.0 10.9 9.1	113.6 118.2 103.4	+ + +	11.5 13.8 14.0	112.9 113.1 125.2	+ + + +	7.9 9.5 7.2	109.7 111.4 94.5	+	6.4 8.1 4.2	127.9 129.8 108.6	+ + + +	5.3 17.0 12.2	103.7 105.4 89.8	+ + +	6.8 4.8 1.2
2018 Jan Feb Mar		110.9 110.3 121.6	+ + +	9.9 4.1 3.8	115.7 110.9 121.2	+ + +	10.5 2.3 4.1	107.9 110.1 122.9	+ + +	9.7 5.9 3.6	111.3 108.7 113.6	-	8.8 1.4 2.8	112.6 112.2 123.6	++	5.2 3.1 2.3	110.8 107.6 110.4	+ - +	10.0 2.8 4.9
Apr May	р	108.4 109.5	+++	1.6 5.5	116.0 113.9	+ +	7.4 6.9	104.7 107.3	- +	1.7 4.8	101.5 106.8		0.6 5.1	114.1 121.4	++	2.6 10.1	97.3 102.0	- +	1.8 3.4
		From the	dom	estic	market														
2013 2014		97.0 98.1	+ +	0.5 1.1	102.8 101.7	_ _	1.3 1.1	92.3 95.2	++	2.1 3.1	95.2 97.1		1.2 2.0	100.4 100.4	+ ±	0.9 0.0	93.4 96.0	+ +	1.3 2.8
2015 2016 2017		99.8 99.8 107.0	+ ± +	1.7 0.0 7.2	99.8 97.6 107.1	- - +	1.9 2.2 9.7	99.7 101.9 107.8	+ + +	4.7 2.2 5.8	99.8 98.0 101.7	-	2.8 1.8 3.8	99.7 103.1 108.7	- + +	0.7 3.4 5.4	99.8 96.3 99.3	+ - +	4.0 3.5 3.1
2017 May June		101.3 108.7	++	4.0 7.8	103.7 105.5	+ +	7.5 7.7	100.0 112.8	+ +	1.8 8.4	96.5 99.9		0.6 4.8	98.7 107.2	++	6.4 8.6	95.7 97.4	- +	2.8 3.4
July Aug Sep		107.2 101.2 107.5	+ + +	9.3 9.3 10.7	108.2 107.0 105.9	+ + +	10.0 16.6 13.0	106.7 95.4 109.4	+ + + +	9.4 3.1 9.7	104.9 106.3 104.5	+	4.8 8.9 5.9	102.3 110.9 121.1	+ + +	1.5 12.5 7.1	105.8 104.8 98.9	+ + +	6.0 7.7 5.4
Oct Nov Dec		111.0 112.7 101.3	+ + +	7.7 9.3 1.5	112.3 114.1 98.4	+ + +	10.7 10.9 12.7	110.2 111.7 106.1	+ + -	5.2 7.9 5.8	108.7 111.6 86.2	+ 1	7.1 0.0 0.0	128.7 123.1 89.0	+ + +	8.9 10.5 2.4	101.9 107.7 85.2	+ + -	6.3 9.7 0.9
2018 Jan Feb Mar		107.8 105.6 119.7	+ - +	8.8 3.5 4.3	113.4 108.1 119.4	+ - +	11.0 0.9 5.9	104.0 103.5 121.6	+ - +	7.5 6.2 3.1	101.8 105.3 109.0	+	4.0 0.5 3.5	103.1 109.5 122.1	+ + + +	0.4 7.1 5.2	101.3 103.9 104.6	+ - +	5.2 1.7 3.0
Apr May	р	105.0 106.4	- +	4.6 5.0	108.7 110.3	+	2.7 6.4	103.0 103.2	- +	11.4 3.2	97.9 106.2	+	4.9 0.1	115.5 127.6	++	13.3 29.3	91.9 99.0	++	1.7 3.4
		From abr	road																
2013 2014		93.9 97.5	+ +	3.9 3.8	97.1 99.5	- +	0.4 2.5	92.8 96.7	+ +	6.2 4.2	90.5 96.5		2.7 6.6	91.0 92.0	++	3.6 1.1	90.4 97.9	+ +	2.5 8.3
2015 2016 2017		99.8 101.5 109.8	+ + +	2.4 1.7 8.2	99.8 100.4 111.9	+ + +	0.3 0.6 11.5	99.8 101.9 109.0	+ + +	3.2 2.1 7.0	99.8 102.6 108.9	+	3.4 2.8 6.1	99.8 107.1 122.8	+ + +	8.5 7.3 14.7	99.8 101.1 104.4	+ + +	1.9 1.3 3.3
2017 May June		105.7 112.2	++	8.4 7.0	109.6 116.8	+ +	9.3 14.6	103.8 110.6	++	7.9 3.8	105.5 107.2	+	8.9 4.8	119.6 125.9	++	25.6 17.3	100.9 101.1	+ +	3.5 0.4
July Aug Sep		104.8 97.3 112.5	+ + +	4.2 10.1 11.2	109.5 102.7 112.1	+ + +	9.9 16.7 10.6	102.0 93.3 113.2	+ + +	1.4 7.1 12.2	110.0 109.2 109.0	++	5.0 7.7 6.4	114.1 118.8 130.3	+ + +	8.5 28.9 18.5	108.7 106.1 102.1	+ + +	3.9 1.6 2.1
Oct Nov Dec		114.4 116.4 125.7	+ + +	10.1 12.1 14.3	115.0 122.7 108.8	+ + +	12.3 16.9 15.3	114.6 113.9 136.7	+ + +	9.7 10.5 14.6	110.4 111.3 100.9	+	5.7 6.6 7.2	127.3 135.2 124.3	+ + +	2.6 22.4 18.7	105.0 103.6 93.3	+ + +	7.0 1.2 2.9
2018 Jan Feb Mar		113.3 113.9 123.0	+ + +	10.9 10.2 3.3	118.2 113.9 123.1	+ + +	10.1 5.9 2.2	110.3 114.1 123.7	+ + +	11.0 13.9 3.9	118.6 111.4 117.2	-	2.2 2.6 2.4	120.3 114.3 124.8	+ + -	8.9 0.2 7.4	118.0 110.4 114.8	+ - +	13.4 3.6 6.3
Apr May	р	111.0 111.9	+ +	6.5 5.9	123.8 117.8	+	12.1 7.5	105.8 109.7	++	5.1 5.7	104.3 107.2		4.2 1.6	112.9 116.4	- -	4.8 2.7	101.5 104.3	- +	4.1 3.4

4 Orders received by construction *

Adjusted for working-day variations •

				Breakdow	n by	type o	f constructi	on											Breakdow	n by	client '	1		
				Building																				
	Total			Total			Housing construction	on		Industrial construction	on		Public sect			Civil engineerin	g		Industry			Public sector 2		
		Ann perd age	ent-		Ann perd	ual ent-		Anr per age	cent-		Anr per	cent-			nual cent-		Anr pero	ent-		Anr perd	ent-		Ann perd age	
Period	2010 = 100	char		2010 = 100		nge				2010 = 100			2010 = 100			2010 = 100			2010 = 100	cha		2010 = 100		nge
2014	118.5	-	0.6	127.2	+	0.6	146.6	+	4.3	126.8	-	0.9	90.6	-	3.5	109.9	-	1.8	121.8	-	0.1	104.1	-	3.3
2015 2016 2017	124.2 142.2 152.2	+++++	4.8 14.5 7.0	133.6 153.8 164.6	+	5.0 15.1 7.0	165.4 193.5 203.9	+++++	12.8 17.0 5.4	124.3 143.0 153.5	- + +	2.0 15.0 7.3	98.5 107.5 120.3	+	8.7 9.1 11.9	114.8 130.8 139.8	++++++	4.5 13.9 6.9	122.6 137.1 147.1	+++++	0.7 11.8 7.3	109.3 127.0 136.7		5.0 16.2 7.6
2017 Apr May June	165.2 155.4 173.3	+ - +	9.4 1.3 5.0	170.5 162.5 188.1	+ - +	9.8 7.7 3.9	204.5 202.2 238.5	+ - +	4.5 3.5 6.9	166.7 143.0 164.4	+ -	17.1 17.7 5.9	114.7 142.1 159.2	+++++	0.6 20.8 36.3	160.0 148.4 158.5	++++	9.1 7.0 6.2	154.0 138.5 156.1	+ - -	9.7 11.2 3.3	160.9 154.0 164.6	+	11.8 11.7 13.0
July Aug Sep	164.0 145.3 151.8	++++++	7.4 4.6 5.1	167.7 152.9 163.7	++++++	2.5 2.9 1.3	203.9 184.8 200.0	++	4.6 0.4 11.3	159.6 142.3 148.2	+ + +	0.7 0.5 11.3	120.4 121.5 138.3	+	2.6 22.0 15.0	160.4 137.7 140.0	+++++	13.2 6.6 9.9	155.2 138.9 144.9	+ + +	7.7 4.9 11.7	157.1 135.9 139.5		8.8 6.6 9.8
Oct Nov Dec	141.2 140.7 166.7	- + +	2.8 10.7 27.0	152.7 158.1 199.5	- + +	2.7 13.2 32.8	203.3 188.6 247.1	+ - +	4.6 0.4 43.2	131.0 157.1 196.0	- + +	11.5 29.0 27.4	117.8 101.3 116.3	+	6.8 6.5 21.9	129.8 123.2 133.9	- + +	2.8 7.6 19.1	132.5 152.9 174.7	- + +	8.6 22.9 23.9	125.3 108.9 126.2	+	0.6 3.9 20.4
2018 Jan Feb Mar	123.8 154.2 180.7	+ + +	9.1 18.3 0.9	135.6 157.6 186.9	++	8.5 9.2 1.8	170.0 186.6 228.8	++	10.0 6.0 6.1	129.5 154.8 169.6	++	5.7 11.3 1.5	86.0 108.7 155.7	+	15.6 11.6 11.5	112.1 150.8 174.5	+ + +	9.8 29.8 4.1	130.3 167.1 168.4	+ + +	4.7 31.2 2.0	98.7 127.9 174.0		14.9 11.4 4.0
Apr	169.0	+	2.3	174.9	+	2.6	234.0	+	14.4	156.6	-	6.1	113.0	-	1.5	163.2	+	2.0	155.9	+	1.2	156.3	_	2.9

Source of the unadjusted figures: Federal Statistical Office. * At current prices; values exclusive of value-added tax; for explanatory notes, see Statistical Supplement Seasonally adjusted business statistics, Table II.21. $\bf o$ Using the Census X-12-ARIMA

method, version 0.2.8. ${f 1}$ Excluding housing construction orders. ${f 2}$ Including road construction.

5 Retail trade turnover *

Adjusted for calendar variations o

		.,																					_		_	$\overline{}$
									of which																	
									in stores b	y ent	erprise	es main pro	duct	range												
	То	otal							Food, beve tobacco 1	erage	s,	Textiles, clothing, foodwear leather go			Informatio and communic equipment	ation	S	Constructi and floorin materials, household appliances furniture	ng		Retail sale pharmace and medic goods, co- and toilet articles	utical al	Ξ	Retail sale mail orde or via inte as well as other reta	r hous rnet	
		t current ices				prices in ar 2010			At current	price	s															
			age	ent-			Annu perce age	ent-		Anni perc age	ent-		age	cent-		Ann perc age	ent-		Annu perce age	ent-		Anni perce age	ent-		age	cent-
Period	20	15 = 100	cha	nge	201	15 = 100	chan	ge	2015 = 100	chan	ge	2015 = 100	cha	nge	2015 = 100	char	ige	2015 = 100	chan	ge	2015 = 100	chan	ge	2015 = 100	cha	nge
2014		96.5	+	1.6		96.4	+	1.2	97.3	+	2.0	99.9	+	1.8	99.2	-	8.0	97.6	-	0.5	95.0	+	7.1	83.3	+	1.8
2015 2016 2017 5	4	100.1 102.5 107.5	+ + +	2.4		100.1 102.1 105.1	+ + +	3.8 2.0 2.9	100.1 101.7 105.6	+ + +	2.9 1.6 3.8	100.2 101.0 108.2	++++	0.3 0.8 7.1	100.2 99.9 106.5	+ - +	1.0 0.3 6.6	100.2 101.5 103.6	+ + +	2.7 1.3 2.1	100.0 103.9 107.9	+ + +	5.3 3.9 3.8	4 100.0 109.8 120.6	+ + +	9.8
2017 May June		106.8 105.2	++	4.9 5.8		104.2 103.2	+ +	3.0 4.0	106.2 104.8	++	3.5 3.9	105.6 105.4	++	2.6 8.5	89.0 95.1	++	7.1 6.5	106.6 102.4	++	1.3 3.4	106.6 106.2	+ +	5.2 6.0	114.0 111.7	++	
July Aug Sep		107.2 102.9 106.2	+ + +	4.5 3.8 7.5		105.7 101.2 103.3	+ + +	2.8 1.9 5.4	107.2 103.4 102.5	+ + +	3.7 2.7 5.1	105.2 99.2 124.9	+++++	2.8 6.7 27.4	102.2 97.7 102.2	+	10.2 9.8 10.5	104.2 98.1 99.8	+ + +	2.7 0.9 3.5	109.3 104.6 105.6	+ + +	2.9 3.8 3.1	112.3 110.8 116.7	+ + +	9.5
Oct Nov Dec		110.4 114.9 129.6	+ + +	2.4 5.8 4.3		107.1 111.3 125.7	+ + +	0.7 3.9 2.7	105.7 108.0 125.8	+ + +	2.4 4.7 4.8	121.7 117.6 132.0	- + +	3.9 9.7 6.5	111.0 121.5 157.6	+ +	4.1 5.7 0.6	109.8 111.1 112.6	+ + +	1.8 3.3 2.3	108.8 113.1 123.8	+ + +	2.3 4.1 5.2	122.2 150.2 154.1	+ + +	
2018 Jan Feb Mar		100.1 96.4 110.7	+ + +	3.7 2.4 1.3		97.6 93.7 106.8	+ + ±	2.3 1.1 0.0	98.7 97.9 110.0	+ + +	3.8 3.4 3.7	91.2 81.6 103.6	++	3.5 1.5 5.5	109.2 92.7 103.9	- + +	2.7 0.2 0.6	91.2 89.1 107.1	+ - -	4.1 0.4 4.8	107.1 104.0 112.3	+ + +	5.3 4.5 2.9	119.4 108.7 125.9	+ + +	1.4
Apr May		112.1 109.4	++	4.8 2.4		107.7 104.9	+ +	3.1 0.7	111.5 111.1	+ +	3.6 4.6	117.7 105.7	+	8.3 0.1	91.0 88.5	-	2.5 0.6	113.3 105.9	+	4.0 0.7	111.4 107.7	+ +	5.2 1.0	121.3 118.0		6.0 3.5

Source of the unadjusted figures: Federal Statistical Office. * Excluding value-added tax; For explanatory notes, see Statistical Supplement Seasonally adjusted business statistics, Table II.24. **o** Using the Census X-12-ARIMA method, version 0.2.8. 1 Including stalls and markets. 2 Not in stores, stalls or markets. 3 Values at current prices deflated with retail price indices in 2010 weights. 4 As of May 2015,

integration of a larger online retail sales based enterprise that founded a business establishment in Germany in May 2015. **5** As of January 2017, figures are provisional, in some cases revised, and particularly uncertain in recent months due to estimates for missing reports.

6 Labour market *

	Em	ployment	1	Employment	subject to s	ocial contrib	utions 2			Short time w	orkers 3	Unemploym	ent 4		
				Total		of which:					of which:		of which:		
Period	Tho			Thou- sands	Annual percentage change	Production sector	Services excluding temporary employ- ment	Temporary employ- ment	Solely jobs exempt from social contri- butions 2	Total	Cyclically induced	Total	Assigned to the legal category of the Third Book of the Social Security Code (SGB III)	Unem- ploy- ment rate 4,5 in %	Vacan- cies, 4,6 thou- sands
2013		42,319	+ 0.6	29,713	+ 1.3	8,783	19,958	743 770	5,017	191	77	2,950	970	6.9	457
2014 2015 2016 2017		42,672 43,069 43,638 44,271	+ 0.8 + 0.9 + 1.3 + 1.5	30,197 30,823 31,508 32,234	+ 1.6 + 2.1 + 2.2 + 2.3	8,860 8,938 9,028 9,146	20,332 20,840 21,407 21,980	806 834 868	5,029 4,856 4,804 4,742	134 130 128 113	49 44 42 24	2,898 2,795 2,691 2,533	933 859 822 7 855	6.7 6.4 6.1 5.7	490 569 655 731
2015 Q2 Q3 Q4		42,998 43,286 43,476	+ 0.8 + 1.0 + 1.2	30,671 30,928 31,333	+ 2.0 + 2.1 + 2.3	8,895 8,974 9,049	20,740 20,865 21,204	792 840 837	4,863 4,868 4,829	61 47 101	47 33 46	2,772 2,759 2,655	822 827 775	6.3 6.3 6.0	560 595 604
2016 Q1 Q2 Q3 Q4		43,096 43,557 43,832 44,066	+ 1.4 + 1.3 + 1.3 + 1.4	31,077 31,350 31,593 32,014	+ 2.4 + 2.2 + 2.1 + 2.2	8,929 8,988 9,056 9,137	21,131 21,298 21,431 21,770	793 820 858 866	4,785 4,823 4,827 4,781	312 59 46 93	50 47 35 36	2,892 2,674 2,651 2,547	932 782 808 766	6.6 6.1 6.0 5.8	610 653 682 677
2017 Q1 Q2 Q3 Q4		43,738 44,200 44,483 44,663	+ 1.5 + 1.5 + 1.5 + 1.4	31,790 32,064 32,324 32,759	+ 2.3 + 2.3 + 2.3 + 2.3	9,040 9,110 9,172 9,263	21,697 21,857 22,011 22,354	830 852 892 900	4,728 4,762 4,766 4,711	307 36 28 79	41 25 16 15	2,734 2,513 2,504 2,381	7 987 822 833 780	6.2 5.6 5.6 5.3	671 717 763 771
2018 Q1 Q2	8	44,347		9 32,573 		9 9,215			9 4,658		9 13 	2,525 2,325	909 760	5.7 10 5.1	760 794
2015 Feb Mar Apr May June July Aug Sep Oct Nov Dec		42,470 42,638 42,832 43,013 43,150 43,190 43,245 43,422 43,508 43,545 43,374	+ 0.7 + 0.8 + 0.8 + 0.9 + 1.0 + 1.0 + 1.2 + 1.3	30,342 30,528 30,645 30,718 30,714 30,988 31,333 31,368 31,389 31,150	+ 1.9 + 2.0 + 1.9 + 2.0 + 2.1 + 2.2 + 2.2 + 2.3 + 2.5 + 2.5	8,818 8,865 8,895 8,901 8,915 8,934 8,993 9,076 9,068 9,060 8,964	20,546 20,651 20,723 20,776 20,788 20,724 20,901 21,153 21,206 21,247 21,167	756 777 784 794 819 840 846 850 846 842 798	4,821 4,829 4,850 4,875 4,902 4,908 4,841 4,810 4,814 4,846 4,843	352 251 67 57 59 49 40 51 61 66	52 50 54 44 45 35 26 39 47 52 39	3,017 2,932 2,843 2,762 2,711 2,773 2,796 2,708 2,643 2,633 2,681	1,034 955 868 815 782 830 851 799 764 764	6.9 6.8 6.5 6.3 6.2 6.3 6.4 6.2 6.0 6.0	519 542 552 557 572 589 597 600 612 610 591
2016 Jan Feb Mar Apr May June July Aug Sep Oct Nov Dec		43,005 43,059 43,224 43,388 43,577 43,689 43,807 43,999 44,086 44,131 43,982	+ 1.3 + 1.4 + 1.4 + 1.3 + 1.3 + 1.2 + 1.3 + 1.3 + 1.3 + 1.3 + 1.4	30,983 31,069 31,209 31,314 31,410 31,443 31,378 31,675 32,007 32,045 32,045 32,049	+ 2.3 + 2.4 + 2.2 + 2.2 + 2.3 + 2.2 + 2.1 + 2.2 + 2.2 + 2.2 + 2.2 + 2.2	8,906 8,923 8,954 8,983 9,000 9,010 9,076 9,157 9,154 9,147 9,063	21,073 21,127 21,217 21,279 21,337 21,339 21,273 21,486 21,729 21,773 21,807 21,731	784 793 804 809 826 846 853 865 869 871 876 835	4,774 4,769 4,782 4,806 4,838 4,865 4,863 4,802 4,768 4,767 4,794	343 343 252 67 57 54 43 50 46 50 52	48 50 52 55 45 42 31 38 35 39 40	2,920 2,911 2,845 2,744 2,664 2,614 2,684 2,608 2,540 2,532 2,532	961 947 888 817 774 754 805 830 787 756 756	6.7 6.6 6.5 6.3 6.0 5.9 6.0 5.9 5.8 5.7	581 614 635 640 655 665 674 685 687 691 681 658
2017 Jan Feb Mar Apr May June July Aug Sep Oct Nov Dec 2018 Jan		43,654 43,702 43,857 44,030 44,209 44,360 44,379 44,449 44,622 44,687 44,727 44,574	+ 1.5 + 1.5 + 1.5 + 1.5 + 1.5 + 1.6 + 1.5 + 1.4 + 1.4 + 1.4 + 1.3 + 1.4	31,707 31,774 31,930 32,013 32,131 32,165 32,128 32,396 32,778 32,830 32,609 9 32,508	+ 2.3 + 2.3 + 2.3 + 2.3 + 2.3 + 2.3 + 2.3 + 2.3 + 2.4 + 2.9	9,017 9,032 9,078 9,101 9,124 9,135 9,123 9,189 9,272 9,274 9,274 9,278 9,279	21,648 21,690 21,777 21,831 21,900 21,902 21,869 22,060 22,304 22,355 22,395 22,319	825 828 838 838 859 878 890 901 901 916 867	4,719 4,706 4,722 4,748 4,775 4,802 4,739 4,711 4,696 4,720 4,722 9 4,648	370 335 216 39 36 33 30 28 28 27 26	43 42 40 27 25 22 18 15 16 16 16 12 9	2,777 2,762 2,662 2,569 2,498 2,473 2,518 2,545 2,449 2,389 2,368 2,385	7 1,010 1,014 935 861 810 796 842 855 800 772 772 776 941	6.3 6.0 5.8 5.5 5.5 5.7 5.5 5.4 5.3 5.3	647 675 692 706 714 731 750 765 773 780 772 761
Feb Mar Apr	8 8 8	44,275 44,312 44,455 44,622 44,802	+ 1.4 8 + 1.4 8 + 1.3	9 32,572 9 32,674	9 + 2.5 9 + 2.3	9 9,226 9 9,256 9 9,291	9 22,279 9 22,345	9 8399 837	9 4,639 9 4,652 9 4,686	 	9 12 9 12 9 10 	2,570 2,546 2,458 2,384 2,315 2,276	927 859 796 751	5.7 5.5 5.3 10 5.1	764 778 784 793

Sources: Federal Statistical Office; Federal Employment Agency. * Annual and quarterly figures: averages; calculated by the Bundesbank; deviations from the official figures are due to rounding. 1 Workplace concept; averages. 2 Monthly figures: end of month. 3 Number within a given month. 4 Mid-month level. 5 Relative to the total civilian labour force. 6 Excluding government-assisted forms of employment and seasonal jobs, including jobs located abroad. 7 From January 2017, persons receiving additional income assistance (unemployment benefit and unemployment benefit II at the same time) shall be assigned to the legal category of the Third Book

of the Social Security Code (SGB III). **8** Initial preliminary estimate by the Federal Statistical Office. **9** Unadjusted figures estimated by the Federal Employment Agency. In 2016 and 2017, the estimated values for Germany deviated from the final data by a maximum of 1.1 % for employees subject to social contributions, by a maximum of 0.4 % for persons solely in jobs exempt from social contributions, and by a maximum of 70.0 % for cyclically induced short-time work. **10** From May 2018 calculated on the basis of new labour force figures.

7 Prices

	Harmonised Ind	ex of Cons	umer Prices										HWWI	
		of which 1							Index of producer		Indices of foreign trac	le prices	Index of Wo Prices of Raw	
			Non- energy industrial			of which	Memo item: Consumer price index (national	Con- struction price	prices of industrial products sold on the domestic	Index of producer prices of agricultural				Other raw
	Total	Food 2	goods	Energy 3	Services	rents 4	concept)	index	market 5	products 5)	Exports	Imports	Energy 7	materials 8
Period	2015 = 100						2010 = 100						2015 = 100	
	Index leve	I												
2013	99.1	97.4	98.7	109.8	97.4	97.3	105.7	107.9	106.9	120.7	104.3	105.9	160.2	117.6
2014	99.9	98.8	99.2	107.5	98.8	98.8	106.6	109.7	105.8	111.1	104.0	103.6	142.8	108.3
2015	100.0	100.0	100.0	100.0	100.0	100.0	106.9	111.3	103.9	106.9	104.9	100.9	100.0	100.0
2016	100.4	101.3	101.0	94.6	101.2	101.2	107.4	113.4	102.1	106.6	104.0	97.8	83.2	98.4
2017	102.1	104.0	102.3	97.5	102.5	102.9	109.3	117.0	104.8		105.9	101.5	99.6	107.1
2016 Aug	100.6	100.9	100.3	94.3	102.3	101.4	107.6	113.7	102.2	106.7	104.0	97.7	83.9	98.6
Sep	100.6	101.2	101.5	94.9	101.4	101.5	107.7		102.0	104.7	104.0	97.8	83.9	97.0
Oct	100.8	101.2	102.0	96.2	101.2	101.7	107.9	114.1	102.7	108.8	104.3	98.7	96.2	99.8
Nov	100.8	102.0	102.0	95.2	101.1	101.8	108.0		103.0	111.3	104.8	99.4	95.4	108.5
Dec	101.8	102.6	101.6	97.3	102.8	102.0	108.8		103.4	113.1	105.2	101.3	106.6	114.0
2017 Jan	101.0	103.2	100.7	98.2	101.0	102.2	108.1	115.5	104.1	114.8	105.8	102.2	108.9	115.9
Feb	101.7	104.6	101.0	98.4	101.9	102.3	108.8		104.3	116.2	106.0	102.9	110.2	118.9
Mar	101.8	103.4	102.6	97.5	102.0	102.4	109.0		104.3	117.6	106.0	102.4	99.7	116.4
Apr	101.8	103.4	102.7	98.3	101.5	102.6	109.0		104.7	119.9	106.2	102.3	100.4	110.1
May	101.6	103.5	102.7	96.9	101.5	102.8	108.8	116.6	104.5	120.9	106.0	101.3	93.1	104.2
June	101.8	103.6	102.0	96.1	102.5	102.9	109.0		104.5	121.3	105.8	100.2	85.7	100.4
July	102.2	103.8	101.4	95.9	103.8	103.0	109.4	117.5	104.7	120.2	105.7	99.8	86.5	102.9
Aug	102.4	103.8	101.8	96.3	103.8	103.1	109.5		104.9	121.2	105.6	99.8	90.1	103.3
Sep	102.4	104.1	102.9	97.5	102.8	103.2	109.6		105.2	9) 115.9	105.8	100.7	96.3	102.8
Oct	102.3	104.8	103.2	97.4	102.2	103.3	109.6	118.4	105.5	114.3	105.9	101.3	101.6	102.7
Nov	102.6	104.8	103.2	98.7	102.6	103.5	109.9		105.6	114.7	106.1	102.1	110.3	103.8
Dec	103.4	105.5	102.8	98.5	104.2	103.6	110.6		105.8	114.3	106.2	102.4	113.7	103.6
2018 Jan	102.4	106.2	101.8	98.9	102.4	103.9	109.8	120.4	106.3	110.5	106.5	102.9	115.9	105.4
Feb	102.9	106.2	102.2	98.5	103.3	104.0	110.3		106.2	110.0	106.5	102.3	108.7	106.0
Mar	103.3	106.4	103.2	97.9	103.7	104.1	110.7		106.3	111.3	106.7	102.3	109.5	104.9
Apr May June	103.2 103.8 103.9	106.8 106.9	103.4 103.3 102.9	99.5 101.9 102.4	102.7 103.4 103.8	104.3 104.4	110.7 111.2	121.7	106.8 107.3	110.7 109.5	106.9 107.4	102.9 104.5	116.7 129.9 130.5	106.1 112.5
June	Annual pe				103.6	1 104.5	111.3	1	l	l			1 130.5	111.3
2013	+ 1.6	+ 3.4	+ 0.7	+ 1.8	+ 1.5	+ 1.3	+ 1.5	+ 2.1	- 0.1	+ 1.1	- 0.6	- 2.6	- 4.0	- 8.6
2014	+ 0.8	+ 1.5	+ 0.5		+ 1.4	+ 1.6	+ 0.9	+ 1.7	- 1.0	- 8.0	- 0.3	- 2.2	- 10.9	- 7.9
2014 2015 2016	+ 0.1	+ 1.2	+ 0.8	- 7.0 - 5.4	+ 1.2	+ 1.2	+ 0.3	+ 1.5	- 1.0 - 1.8 - 1.7	- 3.8 - 0.3	+ 0.9	- 2.2 - 2.6 - 3.1	- 30.0	- 7.9 - 7.7 - 1.6
2017	+ 0.4 + 1.7	+ 1.3 + 2.7	+ 1.0 + 1.3	+ 3.1	+ 1.2 + 1.3	+ 1.2 + 1.7	+ 0.5 + 1.8	+ 1.9 + 3.2	+ 2.6	9) + 8.0	- 0.9 + 1.8	+ 3.8	- 16.8 + 19.7	+ 8.8
2016 Aug	+ 0.3	+ 1.2	+ 0.7	- 5.9	+ 1.3	+ 1.3	+ 0.4	+ 2.0	- 1.6	+ 4.5	- 0.9	- 2.6	- 8.3	+ 2.7
Sep	+ 0.5	+ 1.2	+ 0.8	- 3.6	+ 1.3	+ 1.3	+ 0.7		- 1.4	- 2.5	- 0.6	- 1.8	- 7.6	+ 3.1
Oct Nov	+ 0.7 + 0.7	+ 0.8 + 1.5	+ 0.8 + 1.0	- 1.4 - 2.6	+ 1.2 + 1.0	+ 1.4 + 1.4	+ 0.8 + 0.8	+ 2.1	- 0.4 + 0.1	- 0.1 + 3.4	- 0.1 + 0.3	- 0.6 + 0.3	+ 5.0 + 6.5	+ 6.9 + 17.0
Dec	+ 1.7	+ 2.4	+ 1.2	+ 2.4	+ 1.6	+ 1.6	+ 1.7	+ 2.7	+ 1.0	+ 5.4	+ 1.1	+ 3.5	+ 37.5	+ 27.5
2017 Jan	+ 1.9	+ 2.8	+ 1.0	+ 5.9	+ 1.1	+ 1.6	+ 1.9		+ 2.4	+ 7.5	+ 1.8	+ 6.0	+ 68.8	+ 31.4
Feb	+ 2.2	+ 3.8	+ 1.1	+ 7.2	+ 1.3	+ 1.6	+ 2.2		+ 3.1	+ 9.6	+ 2.5	+ 7.4	+ 72.2	+ 34.2
Mar	+ 1.5	+ 2.2	+ 1.6	+ 5.2	+ 0.5	+ 1.6	+ 1.6		+ 3.1	+ 10.3	+ 2.3	+ 6.1	+ 37.9	+ 24.4
Apr	+ 2.0	+ 1.8	+ 1.2	+ 5.0	+ 1.8	+ 1.7	+ 2.0		+ 3.4	+ 13.2	+ 2.6	+ 6.1	+ 33.7	+ 15.3
May June	+ 1.4 + 1.5	+ 2.2 + 2.6	+ 1.3 + 1.3	+ 2.0	+ 1.0 + 1.6	+ 1.8 + 1.8	+ 1.5 + 1.6	+ 3.1	+ 2.8 + 2.4	+ 14.1 + 14.0	+ 2.2 + 1.8	+ 4.1 + 2.5	+ 12.7	+ 7.2 + 1.5
July	+ 1.5	+ 2.5	+ 1.4	+ 0.8	+ 1.6	+ 1.8	+ 1.7	+ 3.3	+ 2.3	+ 9.3	+ 1.5	+ 1.9	+ 2.5	+ 2.7
Aug	+ 1.8	+ 2.9	+ 1.5	+ 2.1	+ 1.5	+ 1.7	+ 1.8		+ 2.6	+ 13.6	+ 1.5	+ 2.1	+ 7.4	+ 4.8
Sep	+ 1.8	+ 2.9	+ 1.4	+ 2.7	+ 1.4	+ 1.7	+ 1.8		+ 3.1	9) + 10.7	+ 1.7	+ 3.0	+ 14.8	+ 6.0
Oct	+ 1.5	+ 3.6	+ 1.2	+ 1.2	+ 1.0	+ 1.6	+ 1.6	+ 3.8	+ 2.7	+ 5.1	+ 1.5	+ 2.6	+ 5.6	+ 2.9
Nov	+ 1.8	+ 2.7	+ 1.2	+ 3.7	+ 1.5	+ 1.7	+ 1.8		+ 2.5	+ 3.1	+ 1.2	+ 2.7	+ 15.6	- 4.3
Dec 2018 Jan	+ 1.6 + 1.4	+ 2.8 + 2.9	+ 1.2 + 1.1	+ 1.2	+ 1.4	+ 1.6	+ 1.7 + 1.6		+ 2.3 + 2.1	+ 1.1	+ 1.0	+ 1.1 + 0.7	+ 6.7 + 6.4	- 9.1 - 9.1
Feb Mar	+ 1.2 + 1.5	+ 1.5 + 2.9	+ 1.2 + 0.6	+ 0.1 + 0.4	+ 1.4 + 1.7	+ 1.7 + 1.7	+ 1.4 + 1.6	+ 4.2	+ 1.8 + 1.9	- 5.3 - 5.4	+ 0.5 + 0.7	- 0.6 - 0.1	- 1.4 + 9.8	- 10.8 - 9.9
Apr May June	+ 1.4 + 2.2 + 2.1	+ 3.3 + 3.3 + 3.2	+ 0.7 + 0.6 + 0.9	+ 1.2 + 5.2 + 6.6	+ 1.2 + 1.9 + 1.3	+ 1.7 + 1.6 + 1.6	+ 1.6 + 2.2 + 2.1	+ 4.4	+ 2.0 + 2.7	- 7.7 - 9.4 	+ 0.7 + 1.3	+ 0.6 + 3.2	+ 16.2 + 39.5 + 52.3	- 3.6 + 8.0 + 10.9

Sources: Eurostat; Federal Statistical Office and Bundesbank calculation based on data from the Federal Statistical Office; for the Index of World Market Prices of Raw Materials: HWWI. 1 Differences from the official figures are due to rounding. 2 Including alcoholic beverages and tobacco. 3 Electricity, gas and other fuels as well as

transport fuels and lubricants. **4** Net rents. **5** Excluding value-added tax. **6** For the euro area, in euro. **7** Coal, crude oil (Brent) and natural gas. **8** Food, beverages and tobacco as well as industrial raw materials. **9** From September 2017 onwards, provisional figures.

8 Households' income *

	Gross wages salaries 1	and	Net wages a salaries 2	nd	Monetary so benefits rece		Mass income	4	Disposable ir	icome 5	Saving 6		Saving ratio 7
Period	€ billion	Annual percent- age change	€ billion	Annual percent- age change	€ billion	Annual percent- age change	€ billion	Annual percent- age change	€ billion	Annual percent- age change	€ billion	Annual percent- age change	As percent- age
2010	1.039.0	2.9	702.2	4.4	385.3	1.2	1.087.5	3.2	1,606.4	2.4	160.1	2.	10.0
2011	1,033.6	4.8	729.4	3.9	380.4	- 1.3	1,109.8	2.0	1,653.7	2.9	158.2	- 1.	
2012	1,133.0	4.1	756.8	3.8	387.6	1.9	1,144.5	3.1	1,695.6	2.5	157.6	- 0.	1
2013	1,167.4	3.0	778.3	2.8	388.1	0.1	1,166.4	1.9	1,717.2	1.3	153.7	- 2.	8.9
2014	1,212.7	3.9	806.9	3.7	398.4	2.6	1,205.2	3.3	1,759.8	2.5	166.6	8.	9.5
2015	1,260.8	4.0	836.6	3.7	417.0	4.7	1,253.7	4.0	1,804.0	2.5	173.5	4.	9.6
2016	1,311.5	4.0	869.1	3.9	430.1	3.1	1,299.2	3.6	1,854.1	2.8	179.7	3.	5 9.7
2017	1,369.5	4.4	906.0	4.2	444.6	3.4	1,350.6	4.0	1,922.8	3.7	190.0	5.	9.9
2016 Q4	363.1	4.1	240.4	3.8	106.9	3.0	347.4	3.6	472.4	2.9	39.9	4.	1 8.5
2017 Q1	319.1	4.4	211.5	4.5	112.9	4.2	324.4	4.4	477.2	4.4	62.6	7.	13.1
Q2	333.7	4.4	215.8	3.9	109.9	3.7	325.7	3.9	479.2	3.5	45.0	3.	9.4
Q3	338.3	4.6	228.7	4.6	111.7	2.6	340.4	4.0	479.8	3.9	40.0	6.	2 8.3
Q4	378.4	4.2	250.0	4.0	110.1	3.0	360.1	3.7	486.7	3.0	42.5	6.	1 8.7
2018 Q1	334.0	4.7	221.0	4.5	115.2	2.1	336.1	3.6	492.7	3.3	66.2	5.	3 13.4

Source: Federal Statistical Office; figures computed in May 2018. * Households including non-profit institutions serving households. 1 Residence concept. 2 After deducting the wage tax payable on gross wages and salaries and employees' contributions to the social security funds. 3 Social security benefits in cash from the social security funds, central, state and local government and foreign countries, pension payments (net), private funded social benefits, less social contributions on social benefits, consumption-related taxes and public charges. 4 Net wages and

salaries plus monetary social benefits received. **5** Mass income plus operating surplus, mixed income, property income (net), other current transfers received, income of non-profit institutions serving households, less taxes (excluding wage tax and consumption-related taxes) and other current transfers paid. Including the increase in claims on company pension funds. **6** Including the increase in claims on company pension funds. **7** Saving as a percentage of disposable income.

9 Negotiated pay rates (overall economy)

	Index of negotiat	ted wages 1								
			On a monthly ba	sis						
	On an hourly bas	iis	Total		Total excluding one-off payment	S	Basic pay rates 2		Memo item: Wages and salari per employee 3	es
Period	2010=100	Annual percentage change	2010=100	Annual percentage change	2010=100	Annual percentage change	2010=100	Annual percentage change	2010=100	Annual percentage change
2010	100.0	1.6	100.0	1.7	100.0	1.7	100.0	1.8	100.0	2.5
2011	101.7	1.7	101.8	1.8	101.8	1.8	101.8	1.8	103.4	3.4
2012	104.4	2.7	104.4	2.6	104.7	2.8	104.7	2.9	106.2	2.7
2013	107.0	2.4	107.0	2.4	107.3	2.5	107.2	2.4	108.4	2.1
2014	110.1	2.9	109.9	2.8	110.1	2.7	110.1	2.7	111.4	2.8
2015	112.6	2.3	112.4	2.2	112.6	2.3	112.7	2.3	114.5	2.8
2016	114.9	2.1	114.7	2.1	115.0	2.1	115.2	2.2	117.3	2.4
2017	117.4	2.1	117.1	2.1	117.5	2.2	117.8	2.3	120.5	2.7
2016 Q4	128.1	2.2	127.8	2.2	128.2	2.2	116.1	2.3	128.4	2.5
2017 Q1	109.1	2.6	108.8	2.5	109.1	2.5	116.8	2.5	113.6	2.7
Q2	110.1	2.1	109.9	2.1	110.2	2.4	117.6	2.4	117.7	2.7
Q3	119.9	2.1	119.6	2.0	120.0	2.0	118.3	2.1	118.7	2.8
Q4	130.5	1.9	130.1	1.8	130.6	1.9	118.6	2.1	131.6	2.5
2018 Q1	111.6	2.3	111.3	2.3	111.4	2.1	119.3	2.2	116.9	2.9
2017 Nov	167.9	1.6	167.5	1.6	168.1	1.6	118.6	2.1		
Dec	112.5	2.0	112.2	2.0	112.5	2.1	118.6	2.1		
2018 Jan	111.2	2.0	110.9	2.0	111.3	2.2	119.1	2.2		
Feb	111.3	2.1	111.0	2.1	111.3	2.0	119.2	2.0		
Mar	112.2	2.8	112.0	2.8	111.7	2.2	119.7	2.2		
Apr	113.3	2.8	113.1	2.8	113.2	2.6	120.6	2.6		
May	114.6	4.0	114.3	4.0	113.8	3.2	121.3	3.1		

¹ Current data are normally revised on account of additional reports. 2 Excluding one-off payments and covenants (capital formation benefits, special payments, such as annual bonuses, holiday pay, Christmas bonuses (13th monthly salary payment)

and retirement provisions). ${\bf 3}$ Source: Federal Statistical Office; figures computed in May 2018. 10 Assets, equity and liabilities of listed non-financial groups *

	End-of-ye	ar/end-of-h	alf data														
		Assets						Equity and liabilities									
				of which				Liabilities									
										Long-term		Short-tern					
															of which	$\overline{}$	
		Non-						Trade					of which				
Period	Total assets	current assets	Intangible assets	Tangible assets	Financial assets	Current assets	Inven- tories	receiv- ables	Cash 1	Equity	Total	Total	Financial debt	Total	Financial debt	Trade payables	
	Total (€ billion)	ı														
2014 2015	2,078.8		431.0 470.7	520.3 564.7	249.6 273.1	794.7 831.6	203.1 215.5	187.3 190.5	132.4 136.0	582.9 633.3	1,495.9 1,592.3	812.0 860.4	426.8 465.3	683.9 731.9	207.2 222.7	175.8 180.3	
2016 2017 P	2,366.2 2,399.9	1,476.7	493.0 500.0	594.9 602.9	288.9 291.3	889.5 910.8	226.8 230.6	217.9 226.5	150.4 159.3	671.8 758.8	1,694.4 1,641.1	888.2 866.4	481.6 496.4	806.2 774.7	249.0 236.4	192.8 195.7	
2017 P 2016 H1 H2	2,255.6	1,380.4	462.4 493.0	549.3 594.9	272.0 288.9	875.2 889.5	226.6 226.8	195.1 217.9	140.4 150.4	607.1 671.8	1,648.5 1,694.4	894.8 888.2	464.6 481.6	753.7 806.2	243.8 249.0	174.9 192.8	
н2 2017 Н1	2,366.2 2,383.1	1	501.7	582.8	288.6	913.3	238.2	217.9	149.8	701.1	1,694.4	886.5	496.9	795.5	249.0	192.8	
H2 p	2,399.9	1,489.1	500.0	602.9	291.3	910.8	230.6	226.5	159.3	758.8	1,641.1	866.4	496.4	774.7	236.4	195.7	
		rcentage															
2014 2015	100.0			25.0 25.4	12.0 12.3	38.2 37.4	9.8 9.7	9.0 8.6	6.4 6.1	28.0 28.5	72.0 71.5	39.1 38.7	20.5 20.9	32.9 32.9	10.0 10.0	8.5 8.1	
2016 2017 P	100.0		20.8 20.8	25.1 25.1	12.2 12.1	37.6 38.0	9.6 9.6	9.2 9.4	6.4 6.6	28.4 31.6	71.6 68.4	37.5 36.1	20.4 20.7	34.1 32.3	10.5 9.9	8.2 8.2	
2016 H1 H2	100.0	61.2	20.5	24.4 25.1	12.1 12.2	38.8 37.6	10.0	8.7 9.2	6.2 6.4	26.9 28.4	73.1 71.6	39.7 37.5	20.6 20.4	33.4 34.1	10.8 10.5	7.8 8.2	
2017 H1 H2 P	100.0	61.7	21.1	24.5	12.1	38.3 38.0	10.0 9.6	9.3 9.4	6.3 6.6	29.4	70.6 68.4	37.2 36.1	20.9 20.7	33.4 32.3	10.3	8.2 8.2	
	Groups with a focus on the production sector (€ billion) ²																
2014	1,655.6			411.9	236.0	666.2	185.7	140.3	98.9	451.4	1,204.2	644.0	318.6	560.2	185.6	122.4	
2015 2016	1,781.1 1,908.6		304.0 322.1	446.3 472.9	259.0 270.8	704.3 762.8	198.8 209.7	147.0 169.9	104.3 115.4	485.0 514.1	1,296.1 1,394.5	689.4 714.8	353.1 369.4	606.7 679.7	198.3 223.1	127.5 140.9	
2017 p	1,935.4	1	323.1	474.5	277.2	786.0	212.5	176.0	128.1	588.2	1,347.1	697.5	381.6	649.7	215.5	148.4	
2016 H1 H2	1,817.3 1,908.6		296.6 322.1	432.0 472.9	254.2 270.8	758.6 762.8	210.0 209.7	149.8 169.9	112.2 115.4	465.7 514.1	1,351.6 1,394.5	717.4 714.8	350.9 369.4	634.3 679.7	219.2 223.1	129.9 140.9	
2017 H1 H2 p	1,921.2 1,935.4		324.7 323.1	463.5 474.5	273.1 277.2	784.3 786.0	224.2 212.5	171.9 176.0	125.3 128.1	550.0 588.2	1,371.2 1,347.1	708.2 697.5	378.1 381.6	663.0 649.7	224.3 215.5	153.1 148.4	
	as a pe	rcentage	of total a	ssets													
2014 2015	100.0		16.7 17.1	24.9 25.1	14.3 14.5	40.2 39.6	11.2 11.2	8.5 8.3	6.0 5.9	27.3 27.2	72.7 72.8	38.9 38.7	19.2 19.8	33.8 34.1	11.2 11.1	7.4 7.2	
2016 2017 P	100.0	60.0	16.9 16.7	24.8 24.5	14.2 14.3	40.0 40.6	11.0 11.0	8.9 9.1	6.1 6.6	26.9 30.4	73.1 69.6	37.5 36.0	19.4 19.7	35.6 33.6	11.7	7.4	
2016 H1	100.0	1	16.3	23.8	14.0	41.7	11.6	8.3	6.2	25.6	74.4	39.5	19.3	34.9	12.1	7.7	
H2	100.0	1	16.9	24.8	14.2	40.0	11.0	8.9	6.1	26.9	73.1	37.5	19.4	35.6	11.7	7.4	
2017 H1 H2 p	100.0 100.0		16.9 16.7	24.1 24.5	14.2 14.3	40.8 40.6	11.7 11.0	9.0 9.1	6.5 6.6	28.6 30.4	71.4 69.6	36.9 36.0	19.7 19.7	34.5 33.6	11.7 11.1	8.0 7.7	
	Group	s with a	focus on	the serv	ices sec	tor (€ bil	llion)										
2014	423.2		154.6	108.4		128.6	17.4	47.0	33.5	131.5	291.7	168.0	108.3	123.7	21.6	53.4	
2015 2016 2017 p	444.5 457.6 464.5	330.9	166.7 170.9 176.9	118.3 122.0 128.4	14.1 18.1 14.1	127.2 126.7 124.8	16.7 17.1 18.1	43.5 48.0 50.4	31.6 34.9 31.3	148.3 157.7 170.6	296.2 299.9 293.9	171.0 173.4 168.9	112.2 112.3 114.8	125.2 126.5 125.0	24.4 25.9 20.9	52.7 51.9 47.3	
2016 H1 H2	438.3 457.6	321.7	165.8 170.9	117.3 122.0	17.8 18.1	116.6 126.7	16.6 17.1	45.3 48.0	28.2 34.9	141.4 157.7	296.9 299.9	177.4 173.4	113.6 112.3	119.4 126.5	24.7 25.9	45.0 51.9	
2017 H1 H2 p	461.9 464.5	332.9	177.0	119.3	15.5	129.0	14.0	48.8 50.4	24.5	151.1	310.7	178.3	118.9	132.5	21.8	41.8 47.3	
	as a pe	rcentage	of total a	ssets													
2014 2015	100.0 100.0				3.2 3.2	30.4 28.6	4.1 3.8	11.1 9.8	7.9 7.1	31.1 33.4	68.9 66.6	39.7 38.5	25.6 25.3	29.2 28.2	5.1 5.5	12.6 11.9	
2016 2017 p	100.0	72.3	37.3 37.3 38.1	26.7 27.6	4.0 3.0	27.7 26.9	3.7 3.9	10.5 10.9	7.6 6.7	34.5 36.7	65.5 63.3	37.9 36.4	24.5 24.7	27.7 26.9	5.7 4.5	11.3 11.3 10.2	
2016 H1 H2	100.0	73.4		26.8 26.7	4.1 4.0	26.6 27.7	3.8 3.7	10.3 10.5	6.4 7.6	32.3 34.5	67.7 65.5	40.5 37.9	25.9 24.5	27.3 27.7	5.6 5.7	10.3	
2017 H1	100.0	1	38.3 38.1	25.8 27.6	3.4	27.9	3.0	10.6 10.9	5.3	32.7	67.3	38.6	25.7	28.7	4.7	9.0	

^{*} Non-financial groups admitted to the Prime Standard segment of the Frankfurt Stock Exchange which publish IFRS consolidated financial statements on a quarterly or half-yearly basis and make a noteworthy contribution to value added in Germany.

Excluding groups engaged in real estate activities. $\bf 1$ Including cash equivalents. $\bf 2$ Including groups in agriculture and forestry.

11 Revenues and operating income of listed non-financial groups *

							fore deprec a percenta					Operating	income (EE	BIT) as a pei	centage of	revenues
				Operating income			Distributio	n 2						Distributio		
	Revenues		and amort	efore depreciation nd amortisation EBITDA 1)		Weighted average		Median	Third quartile	Operating income (EBIT)		Weighted average		First quartile	Median	Third quartile
Period	€ billion 3	Annual change in % 4	€ billion ³	Annual change in % 4	%	Annual change in per- centage points 4	%	%	%	€ billion ³	Annual change in % 4	%	Annual change in per-centage points 4	%	%	%
	Total															
2010 2011 2012 2013 2014 2015 2016 2017 p	1,320.9 1,414.3 1,532.9 1,541.0 1,565.6 1,635.3 1,626.0 1,722.8	13.3 8.5 6.6 - 0.6 1.0 6.9 - 0.4 5.2	181.4 175.9 188.8 187.1 198.7 196.1 214.8 244.5	30.6 0.5 3.2 - 2.8 4.9 - 1.0 8.0 14.5	13.7 12.4 12.3 12.1 12.7 12.0 13.2 14.2	1.8 - 1.0 - 0.4 - 0.3 0.5 - 1.0 1.0	6.6 5.5 5.2 5.1 5.7 6.1 6.6 6.8	11.4 11.0 10.2 10.3 10.3 10.6 11.4 11.0	18.6 17.4 17.5 18.3 17.2 17.8 18.0 18.0	98.3 93.8 95.7 99.5 109.3 91.6 112.1 143.9	66.6 - 4.1 - 7.7 5.5 8.5 - 16.3 9.2 33.2	7.4 6.6 6.2 6.5 7.0 5.6 6.9 8.4	2.4 - 0.9 - 0.9 0.4 0.5 - 1.5 0.5	3.2 2.7 1.9 1.9 1.9 2.6 2.5	6.9 6.6 6.1 5.9 6.1 6.6 6.7 6.8	12.1 12.0 11.0 10.9 11.1 11.3 12.0 12.2
2013 H1 H2	762.7 780.0	- 0.2 - 1.1	93.4 93.8	- 3.6 - 2.0	12.2 12.0	- 0.4 - 0.1	3.4 5.4	9.3 10.8	16.5 19.2	53.8 45.7	– 7.6 25.5	7.1 5.9	- 0.6 1.3	0.6 1.7	4.9 6.2	10.7 12.1
2014 H1 H2	757.2 808.7	- 0.9 2.9	97.2 101.5	4.6 5.2	12.8 12.6	0.7 0.3	4.7 5.4	9.5 10.8	16.0 19.1	57.8 51.5	9.4 7.6	7.6 6.4	0.7 0.3	1.0 1.7	5.2 7.1	10.5 12.0
2015 H1 H2	815.2 831.3	8.7 5.1	102.9 93.5	5.7 – 7.6	12.6 11.3	- 0.4 - 1.5	4.8 6.3	10.2 11.5	17.6 18.1	59.1 32.7	1.3 - 36.7	7.2 3.9	- 0.5 - 2.5	1.1 2.3	5.8 7.1	10.9 11.7
2016 H1 H2	782.7 843.3	- 1.9 1.1	111.8 103.0	6.3 9.8	14.3 12.2	1.1 1.0	5.9 6.8	10.4 11.9	17.7 19.1	65.6 46.4	2.9 21.0	8.4 5.5	0.4 0.8	1.6 2.9	6.4 7.5	11.3 12.5
2017 H1 H2 p	844.9 881.1	6.8 3.7	125.8 118.5	14.4 14.7	14.9 13.5	1.0 1.3	5.6 6.8	10.1 12.0	17.2 19.2	78.5 64.9	29.3 38.4	9.3 7.4	1.6 1.8	1.8 3.2	5.8 7.5	11.6 12.4
	Groups with a focus on the production sector 5															
2010 2011 2012 2013 2014	980.7 1,079.0 1,173.8 1,179.0 1,197.3	15.8 10.6 7.7 – 0.8 1.0	136.2 130.0 140.8 138.7 147.9	38.7 - 1.7 5.3 - 2.6 5.8	13.9 12.1 12.0 11.8 12.4	2.3 - 1.5 - 0.3 - 0.2 0.6	6.6 5.5 5.4 4.4 5.1	11.4 11.3 10.2 10.3 9.6	16.3 16.4 16.1 15.5 15.3	75.7 74.1 81.7 74.5 82.0	72.4 - 4.9 2.2 - 5.8 9.3	7.7 6.9 7.0 6.3 6.9	2.6 - 1.1 - 0.4 - 0.3 0.5	3.0 2.1 1.8 1.3 1.4	7.3 6.8 6.1 5.7 5.9	12.0 11.5 9.8 10.0 10.2
2015 2016 2017 P	1,282.4 1,267.1 1,362.8	7.0 - 1.0 5.5	143.9 156.4 182.2	- 2.7 6.0 16.8	11.2 12.4 13.4	- 1.1 0.8 1.3	6.1 6.5 6.7	10.4 10.5 11.0	15.5 16.0 15.8	65.1 80.5 109.6	- 20.3 4.4 41.0	5.1 6.4 8.0	- 1.8 0.3 2.0	1.8 2.7 2.9	6.5 6.3 6.7	10.0 10.4 10.5
2013 H1 H2	588.8 591.7	- 0.1 - 1.4	71.7 67.1	- 4.8 - 0.3	12.2 11.3	- 0.6 0.1	3.1 4.0	9.3 10.4	15.0 15.8	43.1 31.4	– 10.9 1.7	7.3 5.3	- 0.9 0.2	0.6 0.6	5.3 5.8	9.7 10.9
2014 H1 H2	584.4 613.1	- 1.1 3.0	74.2 73.7	3.8 7.8	12.7 12.0	0.6 0.5	4.7 4.4	9.6 9.8	15.0 15.8	46.2 35.8	8.9 9.8	7.9 5.8	0.7 0.4	1.4 0.7	5.4 6.3	9.6 10.7
2015 H1 H2	636.4 646.6	8.7 5.3	80.1 63.8	7.8 – 13.4	12.6 9.9	- 0.1 - 2.1	5.1 5.3	10.0 11.1	15.4 15.5	48.7 16.4	4.8 - 52.4	7.7 2.5	- 0.3 - 3.3	2.1 1.8	6.1 6.9	10.0 10.3
2016 H1 H2	611.2 655.9	- 2.6 0.5	83.9 72.5	1.3 11.9	13.7 11.1	0.5 1.1	6.6 6.1	10.5 11.2	15.7 16.0	50.7 29.8	- 6.5 34.8	8.3 4.6	- 0.3 0.9	2.8 2.4	6.4 6.3	9.9 10.5
2017 H1 H2 p	678.6 684.9	7.2 3.9	98.4 83.7	18.6 14.6	14.5 12.2	1.4 1.2	5.9 6.6	9.9 11.8	16.0 16.5	63.9 45.6	37.5 46.4	9.4 6.7	2.1 1.9	2.2 3.4	5.8 7.3	10.5 10.8
	Groups	with a	focus on	the serv	ices sec	tor										
2010 2011 2012 2013 2014 2015	340.2 335.3 359.1 362.0 368.3 352.9	5.8 1.7 2.8 – 0.1 1.1 6.4	45.1 45.9 48.0 48.4 50.8 52.2	9.0 7.6 - 3.3 - 3.4 2.2 4.8	13.3 13.7 13.4 13.4 13.8 14.8	0.4 0.8 - 0.8 - 0.5 0.1 - 0.2	6.0 6.0 5.1 5.2 6.0	11.2 10.4 10.1 10.5 12.7	19.7 20.7 23.0 21.6 22.6	22.6 19.7 14.0 25.0 27.3 26.4	47.0 - 0.7 - 47.2 84.4 5.7 - 1.6	6.7 5.9 3.9 6.9 7.4 7.5	1.8 - 0.1 - 3.0 3.0 0.3 - 0.6	3.4 3.2 2.1 2.4 2.9	6.0 6.2 5.7 5.9 6.5	12.8 13.8 14.2 12.5 13.7
2015 2016 2017 P	358.9 360.0	2.4 3.8	58.4 62.3	14.6 7.7	16.3 17.3	1.8 0.6	6.9 7.3	13.5 11.6	25.8 23.0	31.6 34.3	24.7 10.0	8.8 9.5	1.5	2.5 2.4	8.3 7.2	15.5 15.1
2013 H1 H2	173.9 188.2	- 0.5 0.2	21.7 26.7	1.1 – 6.7	12.5 14.2	0.2 - 1.1	3.9 5.6	8.1 11.4	19.2 21.8	10.7 14.3	12.8 241.4	6.2 7.6	0.7 5.2	0.9 2.2	4.6 7.4	12.8 13.5
2014 H1 H2	172.9 195.6	- 0.5 2.5	23.0 27.8	7.7 – 2.2	13.3 14.2	1.0 - 0.7	4.8 6.4	9.3 13.5	20.4 23.8	11.6 15.7	11.7	6.7 8.1	0.7 - 0.1	1.0	5.1 8.1	13.5 18.0
2015 H1 H2	178.9 184.7	8.4 4.6	22.8 29.7	- 2.2 - 2.2 10.8	12.7 16.1	- 1.5 0.9	4.4 7.0	10.9 12.1	21.5 23.5	10.3 16.3	– 15.7 9.3	5.8 8.8	- 1.6 0.4	- 0.5 2.5	4.5 7.7	14.2 15.0
2016 H1 H2	171.5 187.4	1.2	27.8	27.7	16.2	3.5	5.1 7.4	10.3 13.7	23.8 24.4	15.0	62.1	8.7 8.8	3.3	1.0	6.4 9.0	14.9 17.2
2017 H1 H2 p	166.3 196.2	3.6 4.8 2.8		4.6 - 0.2 14.9	16.3 16.5 17.7	0.2 - 0.8 1.9	5.3	10.5	24.4 21.2 24.6	16.6 14.6 19.3	2.7 - 0.8 20.2	8.8	- 0.1 - 0.5 1.4	4.0 1.3 3.0	5.8	14.6

^{*} Non-financial groups admitted to the Prime Standard segment of the Frankfurt Stock Exchange which publish IFRS consolidated financial statements on a quarterly or half-yearly basis and make a noteworthy contribution to value added in Germany. Excluding groups engaged in real estate activities. 1 Earnings before interest, taxes, depreciation and amortisation. 2 Quantile data are based on the groups' unweighted

return on sales. **3** Annual figures do not always match the sum of the two half-year figures. See Quality report on consolidated financial statement statistics, p 3. **4** Adjusted for substantial changes in the basis of consolidation of large groups and in the reporting sample. See the explanatory notes in the Statistical Supplement Seasonally adjusted business statistics. **5** Including groups in agriculture and forestry.

XII External sector

1 Major items of the balance of payments of the euro area *

€ million

		2017 r 2018											
tem	2015	2016	2017 r	Q3	Q4	Q1 r	Feb r	Mar	Apr P				
A Current account	+ 339,804	+ 388,042	+ 386,567	+ 128,310	+ 129,310	+ 80,695	+ 25,909	+ 44,557	+ 26,20				
1 Goods													
Exports	2,138,202	2,130,057	2,285,193	564,067	594,145	569,268	180,278	205,570	188,8				
Imports	1,779,019	1,754,756	1,942,144	470,912	495,279	495,030	154,862	168,192	166,2				
Balance	+ 359,184	+ 375,300	+ 343,049	+ 93,155	+ 98,865	+ 74,238	+ 25,416	+ 37,378	+ 22,6				
2 Services													
Receipts	771,662	784,711	855,969	225,108	224,102	196,884	61,491	69,854	67,5				
Expenditure	708,219	745,202	754,213	188,869	197,822	176,017	54,855	61,454	59,6				
Balance	+ 63,444	+ 39,509	+ 101,756	+ 36,238	+ 26,279	+ 20,867	+ 6,635	+ 8,401	+ 7,9				
3 Primary income													
Receipts	654,888	637,064	662,499	162,777	176,210	154,066	50,955	58,394	55,3				
Expenditure	598,912	524,924	576,450	130,755	139,810	125,304	40,569	45,165	49,8				
Balance	+ 55,975	+ 112,142	+ 86,050	+ 32,021	+ 36,401	+ 28,761	+ 10,386	+ 13,229	+ 5,5				
4 Secondary income													
Receipts	112,149	105,041	108,753	25,551	29,154	25,783	8,236	9,811	8,6				
Expenditure	250,950	243,952	253,042	58,655	61,389	68,956	24,765	24,262	18,5				
Balance	- 138,799	- 138,910	- 144,288	- 33,105	- 32,235	- 43,172	- 16,528	- 14,451	- 9,8				
Capital account	- 11,548	+ 1,035	- 20,913	- 1,241	+ 1,637	+ 2,685	+ 663	+ 970	+ 1				
Financial account (Increase: +)	+ 267,248	+ 347,103	+ 414,166	+ 126,871	+ 153,007	+ 152,458	+ 35,820	+ 99,916	- 6,0				
1 Direct investment	+ 248,833	+ 169,006	+ 44,025	- 6,708	+ 38,182	+ 133.872	+ 32,673	+ 59,952	+ 34,7				
By resident units abroad	+1,075,532			· ·	+ 36,317	+ 95,158		+ 18,902	1				
By non-resident units in the euro area	+ 826,697			- 146,344		- 38,714		- 41,050					
20 (())	74.000	400 200	245.042	424250	67.555	54.040	40.350		26.				
2 Portfolio investment	+ 71,869		+ 315,013	+ 134,350				- 14,819	+ 26,				
By resident units abroad Equity and	+ 386,724	+ 394,649	+ 630,953	+ 187,421	+ 90,918	+ 193,500	+ 44,561	+ 46,432	+ 20,				
Investment fund shares	+ 11,280	+ 21,350	+ 168,961	+ 56,946	+ 27,262	+ 54,154	+ 7,756	- 7,265	+ 16,				
Long-term debt securities	+ 367,161	+ 365,565	+ 396,402	+ 112,099	+ 53,291	+ 110,849	+ 28,602	+ 41,925	+ 4,0				
Short-term debt securities	+ 8,281	+ 7,735	+ 65,591	+ 18,375	+ 10,367	+ 28,496	+ 8,204	+ 11,771	- (
By non-resident units in the euro area	+ 314,853	- 104,655	+ 315,942	+ 53,071	+ 23,365	+ 141,658	- 3,697	+ 61,251	– 6, ⁻				
Equity and Investment fund shares	+ 207,409	+ 98,539	+ 494,408	+ 101 253	+ 134,589	+ 119,107	+ 12,887	+ 61,186	- 6, <u>9</u>				
Long-term debt securities	+ 141,691	- 258,262		- 48,190	- 61,666				l				
Short-term debt securities	- 34,248	1		l '	- 49,558	'	l '		l				
3 Financial derivatives and employee stock options	+ 87,029	+ 17,694	+ 25,416	- 10,320	+ 10,746	- 4,172	- 577	- 3,842	+ 1,				
4 Other investment	- 151,157	- 354,604	+ 31,042	+ 9,005	+ 34,673	- 40,643	– 44,416	+ 49,229	 - 65,0				
Eurosystem	- 25,393			l '	- 123,423	· ·			1				
General government	+ 18,920			l '	+ 23,906				_ :				
MFIs (excluding the Eurosystem)	- 123,682			l '	+ 108,013				l				
Enterprises and households	- 21,004			l .					l				
5 Reserve assets	+ 10,671	+ 15,700	- 1,330	+ 544	+ 1,851	+ 11,559	- 119	+ 9,396	_ 3,7				
5 Reserve assets D Net errors and omissions	+ 10,671					+ 11,559 + 69,078		·					

 $[\]mbox{*}$ Source: ECB, according to the international standards of the Balance of Payments Manual in the 6th edition of the International Monetary Fund.

XII External sector

2 Major items of the balance of payments of the Federal Republic of Germany (balances)

€ million

	Currer	it account													Financi	al account	t			
	Goods (fob/fob)			1										(Net le	nding: +/	net borrov	ving: -)			
			Goods	(105/105)																
					of which															
					Supple- mentary								Balance	of			of which		Errors	
Period	Total		Total		trade items 2		Service	_S 3	 Primar	y income	Second		capital account	4	Total		Reserve assets		and omissio	_{1S} 5
2003	+	31,347	+	130,021	_	2,105	_	48,708	_	18,920	_	31,047	+	5,920	+	47,559	_	445	+	10,292
2004	+	101,205	+	153,166	_	6,859	-	38,713	+	16,860	-	30,109	-	119	+	112,834	-	1,470	+	11,748
2005 2006	+ +	105,730 135,959	++	157,010 161,447	_	6,068 4,205	-	40,600 34,641	+ +	20,905 41,453	<u>-</u>	31,585 32,300	_	2,334 1,328	++	96,436 157,142	-	2,182 2,934	- +	6,960 22,511
2007	+	169,636	+	201,989	_	922	_	34,881	+	36,332	-	33,804	_	1,520	+	183,169	+	953	+	15,130
2008	+	143,318	+	184,521	_	3,586	-	31,467	+	24,724	-	34,461	-	893	+	121,336	+	2,008	_	21,088
2009	+	141,233	+	141,167	-	6,064	-	19,648	+	54,757	-	35,043	-	1,858	+	129,693	+	8,648	-	9,683
2010 2011	+ +	144,890 165,078	++	161,146 163,426	_	5,892 8,900	_	27,041 31,574	+ +	50,665 68,235	_	39,880 35,010	+ +	1,219 419	+ +	92,757 120,857	+ +	1,613 2,836	_	53,351 44,639
2012	+	193,590	+	200,401	-	10,518	-	32,775	+	64,858	-	38,894	-	413	+	151,417	+	1,297	-	41,759
2013	+	190,092	+	212,662	-	3,663	-	41,376	+	62,444	-	43,639	-	563	+	225,360	+	838	+	35,831
2014 r 2015 r	+ +	218,965 271,403	+ +	228,185 261,135	-	5,741 2,565	_	24,485 16,910	+ +	56,549 67,222	_	41,283 40,044	+ +	2,936 534	+ +	240,116 239,418	-	2,564 2,213	+	18,215 32,520
2016 r	+	268,812	+	267,999	-	1,845	-	19,948	+	60,639	-	39,879	+	3,468	+	257,693	+	1,686	-	14,587
2017 r	+	257,724	+	265,361	+	1,256	-	20,874	+	67,357	-	54,120	-	254	+	279,967	-	1,269	+	22,496
2015 Q2 r Q3 r	+ +	60,964 71,124	++	68,693 67,467	+	1,742 1,030	-	2,543 10,245	+ +	825 20,490	_	6,011 6,587	+ +	1,407 778	+ +	70,734 68,865	-	465 1,455	+	8,362 3,037
Q4 r	+	78,172	+	64,632	<u>-</u>	435	-	2,391	+	26,238	-	10,307	-	2,004	+	68,701	-	272	-	7,467
2016 Q1 r	+	66,589	+	63,353	+	566	-	3,042	+	19,599	-	13,320	-	205	+	40,617	+	1,228	-	25,767
Q2 r Q3 r	+ +	69,819 61,051	++	76,770 66,795	-	54 346	- -	3,707 11,309	+ +	125 16,175	-	3,370 10,610	+ +	1,009 307	+ +	62,621 59,558	+ -	761 261	_	8,207 1,801
Q4 r	+	71,353	+	61,082	-	2,012	-	1,889	+	24,740	-	12,579	+	2,356	+	94,897	-	43	+	21,188
2017 Q1 r	+	67,578	+	65,985	+	2,402	_	2,921	+	21,296	-	16,781	+	616	+	67,316	_	360	_	879
Q2 r	+	53,573	+	67,141	-	187	-	4,785	+	3,058	-	11,841	-	727	+	72,061	+	385	+	19,216
Q3 r Q4 r	+ +	63,145 73,429	+ +	68,051 64,184	-	113 846	_	11,794 1,374	+ +	17,922 25,082	_	11,035 14,463	+ -	904 1,047	+ +	54,979 85,610	+	152 1,446	- +	9,069 13,229
2018 Q1	+	71,289	+	64,782	_	1,397	_	630	+	21,620	_	14,483	+	214	+	74,584	+	699	+	3,081
2015 Dec r	+	28,191	+	18,264	_	578	+	2,737	+	11,613	_	4,423	-	2,161	+	22,839	+	123	_	3,191
2016 Jan r	+	15,865	+	14,208	+	71	-	1,412	+	5,307	-	2,238	-	19	-	1,987	_	186	_	17,833
Feb r	+	20,854	+	21,911	+	619	<u>-</u>	84	+	6,519	-	7,491	+	545 731	+	21,103	+	1,478	- -	296
Mar r	+	29,869	+	27,234	-	124		1,546	+	7,772	-	3,591			+	21,501	-	64		7,638
Apr r May r	+ +	28,952 17,745	++	27,797 23,050	+	179 409	_	661 838	+	3,533 3,921	_	1,718 546	+ +	1,303 277	+ +	26,217 14,290	+ +	696 776	_	4,039 3,733
June r	+	23,122	+	25,923	-	284	-	2,209	+	513	-	1,106	-	571	+	22,115	-	711	-	435
July r	+	18,927	+	20,453	+	413	-	3,460	+	5,372	-	3,437	-	103	+	17,363	+	342	-	1,461
Aug r Sep r	+ +	17,632 24,492	++	20,933 25,409	_	435 324	_	4,807 3,042	+ +	6,016 4,788	_	4,510 2,662	- +	101 511	+ +	17,217 24,977	+ -	93 695	_	314 26
Oct r	+	19,777	+	20,598	+	294	_	3,425	+	6,117	_	3,513	_	117	+	28,457	_	145	+	8,797
Nov r	+	25,394	+	23,647	-	347	-	255	+	6,949	-	4,948	-	69	+	22,295	+	140	-	3,031
Dec r	+	26,182	+	16,837	-	1,959	+	1,790	+	11,675	-	4,119	+	2,541	+	44,145	-	38	+	15,422
2017 Jan r Feb r	+ +	11,883 22,966	++	15,705 22,275	+ +	171 1,022	_	979 955	+	6,851 6,280	_	9,693 4,634	- +	145 291	+ +	7,119 14,387	-	124 216	_	4,620 8,871
Mar r	+	32,729	+	28,004	+	1,209	-	987	+	8,165	-	2,453	+	470	+	45,810	-	21	+	12,611
Apr r	+	16,017	+	19,682	+	21	-	1,181	+	5,852	-	8,336	-	321	+	21,216	-	2	+	5,520
May r June r	+ +	15,153 22,402	++	22,995 24,464	+	968 760	- -	1,674 1,930	- +	5,295 2,501	_	872 2,632	+	85 491	+ +	11,773 39,072	- +	47 434	- +	3,465 17,160
July r		18,741	+	21,046	+	679	_	4,043		6,159	_	4,420	+	525	+	14,479	;	463		4,787
Aug r	+	17,820	+	21,530	<u>-</u>	765	_	5,392	+	5,158	_	3,476	+	174	+	8,062	-	912	_	9,933
Sep r	+	26,583	+	25,476	-	27	-	2,359	+	6,605	-	3,139	+	204	+	32,438	+	602	+	5,650
Oct r	+	19,221	+	20,764	+	393	-	3,846	+	6,527	-	4,224	-	206	+	15,799	+	1,176	-	3,216
Nov r Dec r	+ +	26,146 28,062	+	25,046 18,373	- -	587 652	+	508 2,980	+ +	6,868 11,687	- -	5,260 4,979	-	536 305	++	29,624 40,187	-	270 2,353	+	4,015 12,430
2018 Jan	+	20,211	+	18,211	_	1,171	_	550	+	7,601	_	5,052	+	489	+	29,307	_	121	+	8,607
Feb	+	21,438	+	20,699	+	351	+	710	+	5,419	-	5,390	+	19	+	21,329	+	583	_ _	128
Mar	+	29,640	+	25,872	-	576 97		791 576	+	8,600		4,041	-	294	+	23,948	+	236		5,398
Apr May p	+ +	23,487 12,589	+	22,685 21,487	+	146	-	576 1,578	+	4,014 7,404		2,636 84	+ -	357 478	+	30,208 2,970	+	670 83	+	6,364 15,081
•	1		I	-	1	-	1		1				ı		1	•	1		1	- 1

¹ Excluding freight and insurance costs of foreign trade. 2 For example, warehouse transactions for the account of residents, deductions of goods returned and deductions of exports and imports in connection with goods for processing. 3 Including freight and insurance costs of foreign trade. 4 Including net

3 Foreign trade (special trade) of the Federal Republic of Germany, by country and group of countries *

€ million

€ million		l	1	1	1 2047					
					2017	2018				
Group of countries/country		2015	2016	2017	Dec	Jan	Feb	Mar	Apr	May p
All countries 1 I European countries	Exports Imports Balance Exports	1,193,555 949,245 + 244,310 803,425	1,203,833 954,917 + 248,916 818,644	1,278,936 1,034,491 + 244,445 872,421	100,539 82,500 + 18,039 66,519	107,070 89,887 + 17,184 74,719	104,716 86,460 + 18,256 73,342	116,216 91,476 + 24,741 79,797	110,282 90,202 + 20,080 76,524	109,098 89,429 + 19,669
·	Imports Balance	653,782 + 149,643	657,753 + 160,891	707,811 + 164,610	56,834 + 9,685	60,183 + 14,536	59,988 + 13,354	64,175 + 15,622	62,279 + 14,245	
1 EU member states (28)	Exports Imports Balance	692,493 543,334 + 149,159	705,548 551,344 + 154,204	749,702 590,433 + 159,268	57,806 47,184 + 10,622	64,906 49,839 + 15,067	63,263 49,851 + 13,412	68,827 53,676 + 15,151	66,150 52,083 + 14,067	
Euro-area (19) countries	Exports Imports Balance	434,075 356,643 + 77,432	441,092 358,848 + 82,244	471,603 381,404 + 90,198	36,870 30,777 + 6,093	41,081 32,313 + 8,768	40,231 32,541 + 7,689	44,333 35,073 + 9,259	41,926 33,906 + 8,020	
of which Austria	Exports Imports Balance	58,217 37,250 + 20,967	59,778 38,543 + 21,235	62,826 41,104 + 21,722	4,783 3,188 + 1,595	5,250 3,382 + 1,868	5,142 3,494 + 1,649	5,644 3,709 + 1,935	5,531 3,737 + 1,794	
Belgium and Luxembourg	Exports Imports Balance	46,196 40,116 + 6,079	46,931 40,960 + 5,971	50,038 44,055 + 5,983	3,873 3,317 + 557	4,222 4,231 - 9	4,254 3,697 + 557	4,560 4,335 + 225	4,358 4,402 – 44	
France	Exports Imports Balance	102,762 66,819 + 35,943	101,106 65,651 + 35,454	105,240 64,181 + 41,059	7,901 4,928 + 2,973	9,219 5,070 + 4,149	8,426 5,342 + 3,085	9,650 5,556 + 4,094	9,163 5,632 + 3,531	
Italy	Exports Imports Balance	57,987 49,038 + 8,949	61,265 51,737 + 9,528	65,510 55,917 + 9,593	5,058 4,627 + 431	5,808 4,674 + 1,135	5,796 4,980 + 815	6,258 4,930 + 1,328	5,821 4,934 + 888	
Netherlands Spain	Exports Imports Balance Exports	79,191 87,889 – 8,697 38,715	78,433 83,142 - 4,709 40,497	85,711 91,215 – 5,504 43,037	7,341 7,943 – 602 3,164	7,543 8,154 – 611 3,816	7,580 8,062 - 482 3,717	8,586 9,077 – 491 3,824	7,717 7,779 – 61 3,843	
Other EU member	Imports Balance Exports	26,442 + 12,273 258,417	27,870 + 12,627 264,456	31,611 + 11,426 278,099	2,503 + 661 20,936	2,695 + 1,121 23,825	2,699 + 1,018 23,032	2,924 + 900 24,494	3,072 + 772 24,224	
states of which	Imports Balance	186,691 + 71,727	192,496 + 71,960	209,029	16,408 + 4,529	17,526 + 6,299	17,310 + 5,722	18,602 + 5,892	18,177 + 6,047	
United Kingdom	Exports Imports Balance	89,018 38,414 + 50,604	85,939 35,654 + 50,285	84,462 37,170 + 47,291	6,002 2,892 + 3,111	7,167 2,963 + 4,204	6,917 2,815 + 4,102	7,247 3,090 + 4,158	6,993 3,043 + 3,950	
2 Other European countries	Exports Imports Balance	110,932 110,448 + 484	113,096 106,409 + 6,687	122,720 117,378 + 5,342	8,713 9,650 – 937	9,812 10,343 – 531	10,080 10,137 – 58	10,970 10,500 + 471	10,374 10,196 + 177	
of which Switzerland	Exports Imports Balance	49,070 42,089 + 6,981	50,161 43,896 + 6,265	53,963 45,773 + 8,190	3,719 3,389 + 330	4,540 3,658 + 882	4,360 3,683 + 677	4,726 3,926 + 800	4,431 3,732 + 699	
II Non-European countries	Exports Imports Balance	387,398 295,461 + 91,936	382,486 297,164 + 85,322	403,385 326,679 + 76,706	33,795 25,666 + 8,129	32,107 29,567 + 2,540	31,162 26,138 + 5,024	36,158 27,116 + 9,042	33,466 27,743 + 5,724	
1 Africa	Exports Imports Balance	23,897 18,307 + 5,590	24,434 16,675 + 7,759	25,557 20,392 + 5,165	1,776 1,702 + 74	1,707 1,720 – 13	1,693 1,658 + 35	1,933 1,734 + 198	1,814 1,765 + 49	
2 America of which	Exports Imports Balance	156,982 85,582 + 71,400	147,542 83,499 + 64,043	154,333 89,369 + 64,964	12,544 7,088 + 5,456	12,070 7,300 + 4,770	12,229 7,186 + 5,043	14,621 7,624 + 6,997	12,999 8,062 + 4,937	
United States	Exports Imports Balance	113,733 60,217 + 53,516	106,822 57,968 + 48,855	111,495 61,093 + 50,402	9,030 4,785 + 4,245	8,565 5,060 + 3,504	8,663 4,993 + 3,670	10,903 5,264 + 5,639	9,337 5,505 + 3,832	
3 Asia	Exports Imports Balance	196,297 188,621 + 7,676	200,158 193,979 + 6,179	212,147 213,061 – 915	18,458 16,660 + 1,798	17,121 20,262 – 3,142	16,266 17,000 – 734	18,579 17,480 + 1,099	17,708 17,664 + 44	
of which Middle East	Exports Imports Balance	39,518 7,330 + 32,188	36,659 6,581 + 30,079	33,159 6,953 + 26,206	2,783 518 + 2,265	2,075 614 + 1,461	2,290 593 + 1,697	2,291 508 + 1,783	2,391 679 + 1,712	
Japan	Exports Imports Balance	16,968 20,180 - 3,213	18,307 21,922 – 3,615	19,531 22,877 – 3,346	1,605 1,695 – 90	1,606 2,097 – 491	1,530 1,864 – 334	1,863 2,010 – 147	1,424 2,075 – 651	
People's Republic of China 2	Exports Imports Balance	71,284 91,930 – 20,646	76,046 94,172 – 18,126	86,170 100,683 - 14,513	7,725 8,174 – 449	7,321 10,087 – 2,766	6,924 7,724 – 800	7,887 8,155 – 267	7,446 7,787 – 341	
New industrial countries and emerging markets of Asia 3 4 Oceania and		51,510 42,478 + 9,032 10,221	51,921 42,966 + 8,955 10,352	53,418 50,843 + 2,576 11,348	4,310 3,866 + 445 1,017	4,580 4,480 + 100 1,210	4,034 3,997 + 37 974	4,767 4,012 + 755 1,025	4,763 4,355 + 408 945	
polar regions	Imports Balance	2,951 + 7,271	3,011	3,857	217	285	294	278	252	

^{*} Source: Federal Statistical Office. Exports (fob) by country of destination, imports (cif) by country of origin. Individual countries and groups of countries according to the current position. 1 Including fuel and other supplies for ships and aircraft and

other data not classifiable by region. **2** Excluding Hong Kong. **3** Brunei Darussalam, Hong Kong, Indonesia, Malaysia, Philippines, Republic of Korea, Singapore, Taiwan and Thailand.

4 Services and Primary income of the Federal Republic of Germany (balances)

€ million

	Service	es 1															Primary	income				
			of whi	ch																		
Period	Total		Transp	ort	Travel :	2	Financi service		Charge: the use intellect propert	of tual	Tele- commications compu inform service	s, iter and ation	Other busines services		Govern goods a services	and	Compen of emplo		Investi incom		Other primary income	
2013 2014 2015 2016 2017	- - - -	41,376 24,485 16,910 19,948 20,874	- - - -	9,881 6,902 5,258 6,185 4,047	- - - -	37,713 37,653 36,595 38,247 43,588	+ + + +	8,056 7,007 9,587 9,856 10,683	+ + + +	3,656 3,549 4,830 6,203 6,494	- + + +	870 2,666 4,064 3,224 3,252	- - - -	5,518 700 2,488 3,004 1,683	+ + + +	3,073 2,971 3,160 3,094 2,092	+ + + -	541 1,184 1,521 750 36	+ + + +	60,681 54,473 66,048 60,943 68,622	+ + - -	1,223 891 347 1,054 1,229
2016 Q3 Q4	-	11,309 1,889	-	1,449 1,888	_ _	15,946 7,385	++	2,038 3,241	++	1,554 2,366	+ +	523 1,236	-	25 1,605	++	828 596	- +	469 307	++	17,826 21,418	- +	1,182 3,015
2017 Q1 Q2 Q3 Q4	- - -	2,921 4,785 11,794 1,374	- - -	1,257 407 1,134 1,249	- - -	6,332 10,675 17,166 9,415	+ + +	2,207 2,655 2,746 3,076	+ + + +	1,029 1,538 1,433 2,494	+ + +	377 893 512 1,470	- - + -	855 608 53 274	+ + +	551 625 545 370	+ - - +	589 203 620 197	+ + +	21,868 5,303 19,690 21,761	- - +	1,162 2,042 1,148 3,123
2018 Q1	-	630	-	787	-	6,238	+	2,684	+	1,059	+	867	-	314	+	655	+	559	+	21,896	-	835
2017 July Aug Sep	- - -	4,043 5,392 2,359	- - -	214 473 447	- - -	5,329 7,084 4,753	+ + +	892 1,193 661	+ + +	730 435 268	- + +	106 70 548	- - +	576 224 853	+ + +	172 244 129	- - -	219 203 199	+ + +	6,747 5,773 7,170	- - -	369 412 366
Oct Nov Dec	- - +	3,846 508 2,980	- - -	453 400 396	- - -	5,790 2,372 1,253	+ + +	775 1,353 948	+ + +	1,240 586 668	- + +	5 162 1,312	- - +	266 369 362	+ + -	231 174 35	+ + +	52 57 88	+++++	6,979 7,151 7,632	- - +	504 340 3,968
2018 Jan Feb Mar	- + -	550 710 791	- - -	301 249 237	- - -	1,649 1,577 3,012	+ + +	842 693 1,149	+ + +	161 762 136	- + +	365 675 557	- - -	49 162 103	+ + +	191 218 246	+ + +	188 208 162	+ + +	7,806 5,446 8,645	- - -	393 235 207
Apr May p	-	576 1,578	- +	46 48	_ _	2,230 3,775	++	796 676	+ +	456 644	+ +	194 302	-	515 324	++	247 244	- -	79 83	+	4,532 6,085	-	439 1,237

¹ Including freight and insurance costs of foreign trade. 2 Since 2001, the sample results of a household survey have been used on the expenditure side. 3 Domestic public authorities' receipts from and expenditure on services, not included elsewhere;

including the receipts from foreign military bases. 4 Includes, inter alia, taxes on leasing, production and imports transferred to the EU as well as subsidies received from the EU.

5 Secondary income of the Federal Republic of Germany (balances)

6 Capital account of the Federal Republic of Germany (balances)

€	mil	lion

	€ millio	on													€ millio	n				
			General	governme	ent				All sect	ors exclud	ling gene	eral gove	rnment 2							
					of which	1					of whici	h								
Period	Total		Total		Current internati coopera		Current taxes or income, etc.	1	Total		Personal between resident nonresident househo	and dent	of which Workers remittan	′ l	Total		Non-pro non-fina assets		Capital transfer	s
2013 2014 2015 2016 2017	- - - -	43,639 41,283 40,044 39,879 54,120	- - - -	28,923 28,146 23,965 24,870 23,688	- - - -	4,733 6,419 6,805 11,523 11,496	+ + + +	6,174 8,105 10,638 10,994 10,584	- - - -	14,715 13,137 16,079 15,009 30,432	- - - -	3,250 3,477 3,540 4,214 4,632	- - - -	3,229 3,451 3,523 4,196 4,613	- + + -	563 2,936 534 3,468 254	+ + + +	1,105 2,841 2,366 3,372 3,021	- + - +	1,668 95 1,832 96 3,275
2016 Q3 Q4	-	10,610 12,579	- -	6,813 8,362	_ _	2,583 3,186	++	1,782 1,325	- -	3,797 4,217	- -	1,053 1,055	_	1,049 1,049	+ +	307 2,356	++	887 791	- +	579 1,565
2017 Q1 Q2 Q3 Q4	- - -	16,781 11,841 11,035 14,463	- - - -	7,604 1,706 5,432 8,946	- - -	2,995 1,500 1,557 5,444	+ + +	1,796 6,239 1,755 794	- - -	9,176 10,135 5,603 5,517	- - - -	1,158 1,159 1,157 1,159	- - -	1,153 1,153 1,153 1,153	+ - + -	616 727 904 1,047	+ + + +	734 384 1,531 372	- - - -	118 1,111 627 1,419
2018 Q1	_	14,483	_	9,356	_	2,233	+	1,655	_	5,127	_	1,291	_	1,286	+	214	_	431	+	645
2017 July Aug Sep	- - -	4,420 3,476 3,139	- - -	2,562 1,441 1,430	- - -	933 395 229	+ + +	492 465 799	- - -	1,859 2,035 1,709	- - -	386 386 386	- - -	384 384 384	+ + +	525 174 204	+ + +	703 334 494	- - -	178 160 290
Oct Nov Dec	- - -	4,224 5,260 4,979	- - -	2,939 2,807 3,201	- - -	1,036 1,685 2,723	+ + +	108 70 615	- - -	1,285 2,453 1,778	- - -	387 386 386	- - -	384 384 384	-	206 536 305	- + +	6 78 300	- - -	200 614 605
2018 Jan Feb Mar	- - -	5,052 5,390 4,041	- - -	3,518 3,679 2,160	- - -	1,332 558 343	+ + +	230 814 612	- - -	1,534 1,712 1,881	- - -	430 429 432	- - -	429 429 429	+ + -	489 19 294	+ - -	118 269 281	+ + -	371 288 14
Apr May p	- +	2,636 84	- +	994 1,640	_	314 280	+ +	1,479 3,635	- -	1,643 1,557	- -	429 429	_	429 429	+ -	357 478	+	505 628	- +	148 150

¹ Excluding capital transfers, where identifiable. Includes current international cooperation and other current transfers. 2 Includes insurance premiums and claims

7 Financial account of the Federal Republic of Germany (net)

							201	7			201	8						
tem	20	15	20	16	20	17	Q3		Q4		Q1		Ma	r	Apr		Ma	y p
	\top		Г		Г				Г									
I Net domestic investment abroad		270 225	١.	207.042	١.	262.024	١.	F.C. 770	١.	26.072		162 507		21 200		24 220	١.	05.2
(Increase: +)	+	270,235	+	397,043	+	363,024		56,779	+	36,972	+	163,507		31,308	-	24,330	+	85,2
1 Direct investment	+	116,141	+	82,985	+	111,797	+	20,572	+	27,372	+	42,552		18,973	+	8,038	+	1,0
Equity of which	+	75,292	+	70,623	+	71,205	+	16,953	+	22,786	+	35,042	+	10,297	+	12,295	+	4,
Reinvestment of earnings 1	+	16,804		10,867	+	23,779		8,291		3,009	+	12,044		4,194	+	4,196	+	
Debt instruments	+		ı	12,362		40,592	l	3,620		4,585	+	7,510		8,676		4,257	-	2,
2 Portfolio investment	+	124,062	ı	98,236		105,157	ı		+	23,329		42,396	+	6,120	+	818	+	
Shares 2 Investment fund shares 3	++	19,692 35,750	+ +	17,254 36,142		14,042 47,747		5,116 10,718	+	5,695 14,687	+	8,182 8,585	-	2,020 14	-	2,399 80	- +	3, 3,
Long-term	- 1.	33,730	ľ	30,142	ľ	47,747		10,710		14,007	ľ	0,303	Ι΄.		ľ	00	Ι΄.	٥,
debt securities 4 Short-term	+	74,342	+	51,037	+	47,101	+	15,231	+	7,636	+	25,157	+	9,463	+	3,789	+	
debt securities 5	-	5,723	_	6,196	_	3,733	_	658	_	4,689	+	473	_	1,338	_	651	_	
3. Financial derivatives and																		
employee stock options 6	+	26,026	+	32,535	+	8,937	+	2,064	+	4,038	+	1,154	-	739	+	1,605	+	4
4. Other investment 7	+	6,219	+	181,602	+	138,402	+	3,584	-	16,321	+	76,706	+	6,718	-	34,122	+	79
Monetary financial institutions 8	-	90,288	+	18,627	-	21,008		16,029	-	50,588	+	41,060	-	13,428	-	7,014	+	34,
Long-term Short-term	-	2,804 87.484	+	44,980 26,353		19,619 40,627	-	1,400 14,629	+	5,438 56,026	 -	1,407 42,467	-	306 13,122	-	1,429 5,585	+	5 28
Enterprises and		07,404		20,555		40,027		14,023		30,020	T	42,407		13,122		3,303		20
households 9	-	14,618	-	6,248	+	7,927	+	3,174	+	3,952	+	20,540	+	9,024	_	2,256	_	7
Long-term	+	19,127	+	1,725	-	3,372	-	818	-	1,290	+	1,660		894	+	2,292	+	_
Short-term	-	33,744	-	7,974		11,298	ı	3,991	+	5,241	+	18,880		8,130	-	4,548	-	8
General government	-	12,239 7,591	-	1,268 7,595	-	5,154 3,730		2,690 425	+	991 489	+	1,523 310	+	2,049 352	-	4,362 76	-	
Long-term Short-term	-	4,648	-	6,327	-	1,424		2,265	-	1,480	+	1,833		2,401	-	4,438	-	
Bundesbank	_+	123,364	_	170,491		156,637	_	19,129	_	29,324	+	13,583		9,072	_	20,490	+	53
5. Reserve assets	_	2,213	+	1,686	_	1,269		152		1,446		699		236	_	670	+	
I Net foreign investment		_,		.,		.,				.,	ľ		,				'	
in the reporting country																		
(Increase: +)	+	30,817	+	139,350	+	83,057	+	1,799	-	48,638	+	88,923	+	7,360	-	54,538	+	88
1 Direct investment	+	48,606	+	51,816	+	69,548	+	21,377	+	12,040	+	20,537	+	5,171	-	5,424	+	3
Equity	+	10,567	+	11,894	+	24,077	+	6,047	+	10,118	+	2,089	+	79	+	1,365	+	
of which Reinvestment of earnings 1	_	1,524	_	3,935		9,216	_	3,331	_	2,107	_	2,671	_	772	_	1,356	_	
Debt instruments	+	38,039	+	39,921	+	45,471	+		+	1,922	+	18,449		5,093	-	6,790	+	3
2 Portfolio investment	-	68,808	-	108,471	-	95,045	-	28,130	-	46,598	+	7,592	+	9,870	-	18,390	+	19
Shares 2)	+	10,605	+	342	_	1,126	_	2,311	_	821	+	4,306	+	6,287	+	2,876	+	
Investment fund shares 3	+	7,357	-	6,919	-	3,441	+	656	-	2,894	-	1,792	-	2,666	-	3,039	-	
Long-term debt securities 4	_	96,048	_	97,281	_	70,559	_	21,125	_	40,436	+	16,555	_	9,081	_	18,405	+	11
Short-term											ľ		ļ ·	·				
debt securities 5	+	9,278	-	4,613	-	19,919	-	5,349	-	2,447	-	11,476	-	2,833	+	178	+	7
3. Other investment 7	+	51,019	+	196,006	+	108,554	+	8,552	-	14,080	+	60,794	-	7,681	-	30,723	+	64
Monetary financial institutions 8	-	41,165		86,742		17,476		3,551		67,367		45,097		51,789		22,359		40
Long-term Short-term	-	19,535 21,630		5,774 80,968		7,541 9,935		1,325 2,226		5,550 72,917		7,418 52,515		2,743 49,046		419 22,778		1 39
Enterprises and		2.,030	ľ	00,500	ľ	3,333		2,220		, 2,5 . ,	ľ	32,313		15,010	ľ	22,,,,	ľ	-
households 9	+	18,920	+	3,716	+	17,557	+	6,933	+	16,752	+	4,463	+	6,362	_	7,519	+	
Long-term	+	23,006		8,579		3,339		3,252	-	328		1,879		592		1,026		
Short-term	-	4,085		4,863		14,218	l	3,681		17,079		2,584		6,955		8,545		
General government Long-term	-	11,105 3,941	-	5,309 4,682		6,313 3,290		6,057 244		12,219 170	+	1,660 1	-	4,180 2	-	1,302 48	+	
Short-term	-	7,164		626		3,023		5,813		12,389	+	1,662	-	4,178		1,350	+	
Bundesbank	+	84,369	+	110,857	+	79,834	-	886	+	48,754	+	9,574	+	41,925	-	44,261	+	23
I Net financial account (Net lending: + / net borrowing: -)		239,418	١.	257 602	١.	270 067	١.	54,979	١,	85,610	١.	74,584		23,948	١.	30,208		2
(iver ichanig. + / het bollowing)	1+	233,410	1 +	231,093	1 +	213,301	1 7	J4,313	1 +	010,00	т —	74,304	т —	23,340	1 T	30,208	-	2

¹ Estimate based on data on direct investment stocks abroad and in the Federal Republic of Germany (see Special Statistical Publication 10). 2 Including participation certificates. 3 Including reinvestment of earnings. 4 Up to and including 2012, without accrued interest. Long-term: original maturity of more than one year or unlimited. 5 Short-term: original maturity up to one year. 6 Balance of transactions

arising from options and financial futures contracts as well as employee stock options. **7** Includes in particular loans, trade credits as well as currency and deposits. **8** Excluding Bundesbank. **9** Includes the following sectors: financial corporations (excluding monetary financial institutions) as well as non-financial corporations, households and non-profit institutions serving households.

8. External position of the Bundesbank o

€ million

	External assets										
		Reserve assets					Other investme	nt			
End of reporting period	Total	Total	Gold and gold receivables	Special drawing rights	Reserve position in the IMF	Currency, deposits and securities	Total	of which Clearing accounts within the ESCB 1	Portfolio investment 2	External liabilities 3,4	Net external position (col 1 minus col 10)
	1	2	3	4	5	6	7	8	9	10	11
1999 Jan 5	95,316	93,940	29,312	1,598	6,863	56,167	1,376	-	_	9,628	85,688
1999	141,958	93,039	32,287	1,948	6,383	52,420	48,919	26,275	-	7,830	134,128
2000 2001	100,762 76,147	93,815 93,215	32,676 35,005	1,894 2,032	5,868 6,689	53,377 49,489	6,947 - 17,068	- 6,851 - 30,857	-	8,287 10,477	92,475 65,670
2001	103,948	95,215 85,002	36,208	1,888	6,384	49,489	18,780	4,995	166	66,278	37,670
2003	95,394	76,680	36,533	1,540	6,069	32,538	18,259	4,474	454	83,329	12,065
2004	93,110	71,335	35,495	1,512	5,036	29,292	21,110	7,851	665	95,014	- 1,904
2005 2006	130,268 104,389	86,181 84,765	47,924 53,114	1,601 1,525	2,948 1,486	33,708 28,640	43,184 18,696	29,886 5,399	902 928	115,377 134,697	14,891 - 30,308
2007	179,492	92,545	62,433	1,469	949	27,694	84,420	71,046	2,527	176,569	2,923
2008	230,775	99,185	68,194	1,576	1,709	27,705	129,020	115,650	2,570	237,893	- 7,118
2009	323,286	125,541	83,939	13,263	2,705	25,634	190,288	177,935	7,458	247,645	75,641
2010 2011	524,695 714,662	162,100 184,603	115,403 132,874	14,104 14,118	4,636 8,178	27,957 29,433	337,921 475,994	325,553 463,311	24,674 54,065	273,241 333,730	251,454 380,932
2012	921,002	188,630	137,513	13,583	8,760	28,774	668,672	655,670	63,700	424,999	496,003
2013	721,741	143,753	94,876	12,837	7,961	28,080	523,153	510,201	54,834	401,524	320,217
2014	678,804	158,745	107,475	14,261	6,364	30,646	473,274	460,846	46,784	396,314	282,490
2015 2016	800,709 990,450	159,532 175,765	105,792 119,253	15,185 14,938	5,132 6,581	33,423 34,993	596,638 767,128	584,210 754,263	44,539 47,557	481,787 592,731	318,921 397,719
2017	1,142,845	166,842	117,347	13,987	4,294	31,215	923,765	906,941	52,238	675,253	467,592
2015 Oct	786,694	166,664	112,836	15,126	5,199	33,503	575,246	562,818	44,784	468,506	318,187
Nov Dec	813,320 800,709	163,816 159,532	108,820 105,792	15,475 15,185	5,217 5,132	34,303 33,423	604,946 596,638	592,518 584,210	44,558 44,539	482,764 481,787	330,555 318,921
2016 Jan	807,971	164,656	111,126	15,055	5,197	33,278	599,427	587,000	43,888	473,104	334,867
Feb	839,336	177,917	122,535	15,109	6,899	33,276	617,434	605,006	43,985	489,464	349,871
Mar	837,375	171,266	117,844	14,730	6,730	31,962	621,617	609,190	44,491	492,119	345,256
Apr	856,266	175,738	121,562	14,793	6,759	32,623	638,201	625,774	42,327	495,580	360,687
May June	884,887 922,232	173,927 184,628	118,133 128,963	14,970 14,746	6,839 6,780	33,984 34,139	667,972 693,498	655,544 681,070	42,988 44,106	501,620 518,491	383,267 403,741
July	904,044	186,300	130,417	14,698	6,736	34,449	672,748	660,320	44,996	518,946	385,099
Aug	918,692	183,951	128,171	14,685	6,642	34,452	689,906	677,479	44,834	525,347	393,345
Sep	957,860	183,796	128,795	14,657	6,605	33,738	728,554	715,738	45,510	549,909	407,951
Oct	947,718	181,623	126,245	14,708	6,631	34,039	720,795	708,029	45,300	543,001	404,717
Nov Dec	991,108 990,450	177,348 175,765	121,032 119,253	14,917 14,938	6,572 6,581	34,826 34,993	766,905 767,128	754,057 754,263	46,855 47,557	552,565 592,731	438,543 397,719
2017 Jan	1,034,804	177,256	121,656	14,806	6,523	34,270	809,862	795,621	47,687	577,969	456,835
Feb	1,060,894	184,666	121,030	14,800	6,248	34,270	828,264	814,375	47,087	609,255	451,639
Mar	1,075,039	181,898	126,158	14,886	6,183	34,671	843,892	829,751	49,249	623,579	451,460
Apr	1,089,144	180,726	126,011	14,697	6,055	33,963	858,281	843,439	50,137	601,538	487,606
May June	1,098,879 1,098,880	175,958 171,295	122,486 118,235	14,459 14,349	5,907 5,695	33,107 33,016	871,724 875,312	857,272 860,764	51,197 52,273	601,130 623,941	497,749 474,939
July	1,092,769	169,735	117,330	14,124	5,531	32,750	871,752	856,510	51,282	614,300	478,469
Aug	1,089,883	171,044	119,770	14,071	5,530	31,673	867,696	852,511	51,143	623,104	466,780
Sep	1,115,200	169,937	118,208	14,089	5,471	32,169	894,441	878,888	50,821	622,729	492,470
Oct	1,085,916	172,047	118,569	14,208	5,446	33,824	862,772	848,443	51,097	605,438	480,477
Nov Dec	1,091,832 1,142,845	169,539 166,842	117,208 117,347	14,069 13,987	5,168 4,294	33,094 31,215	869,988 923,765	855,548 906,941	52,305 52,238	582,362 675,253	509,470 467,592
2018 Jan	1,114,634	164,944	117,008	13,776	4,166	29,994	896,525	882,043	53,165	619,483	495,151
Feb	1,147,979	166,370	117,008	13,770	4,138	31,146	928,275	913,989	53,333	638,927	509,051
Mar	1,157,102	165,830	116,630	13,906	4,114	31,181	937,348	923,466	53,924	680,791	476,311
Apr	1,137,942	166,970	117,867	14,043	4,150	30,910	916,858	902,364	54,115	636,684	501,259
May June	1,196,227 1,212,477	171,469 167,078	120,871 116,291	14,287 14,245	4,172 4,983	32,139 31,559	970,555 990,543	956,150 976,266	54,203 54,857	660,554 706,166	535,673 506,312
22776	.,,,,,,			,243	.,555	. 3.,333			. 3.,037		

o Assets and liabilities vis-à-vis all countries within and outside the euro area. Up to December 2000, the levels at the end of each quarter are shown, owing to revaluations, at market prices; within each quarter, however, the levels are computed on the basis of cumulative transaction values. From January 2001, all end-of-month levels are valued at market prices. **1** Mainly net claims on TARGET2 balances (according to

the respektive country designation), since November 2000 also balances with non-euro area central banks within the ESCB. 2 Mainly long-term debt securities from issuers within the euro area. 3 Including estimates of currency in circulation abroad. 4 See Deutsche Bundesbank, Monthly Report, October 2014, p 22. 5 Euro opening balance sheet of the Bundesbank as at 1 January 1999.

9 Assets and liabilities of enterprises in Germany (other than banks) vis-à-vis non-residents *

€ million

	€ IIIIIIOII													
	Claims on n	on-residents						Liabilities vis	-à-vis non-re	sidents				
			Claims on fo	reign non-ba	anks					Liabilities vis-	à-vis foreign	non-banks		
					from trade	credits						from trade of	redits	
		Balances							Loans					
End of year or month		with foreign banks	Total	from financial operations	Total	Credit terms granted	Advance payments effected	Total	from foreign banks	Total	from financial operations	Total	Credit terms used	Advance payments received
	All coun	tries												
2014 2015 2016 2017	835,476 875,758 870,375 879,462	280,176 264,291 243,728 216,300	555,301 611,467 626,646 663,162	365,738 415,697 416,534 438,824	189,562 195,770 210,112 224,338	174,764 181,271 195,934 210,673	14,798 14,499 14,179 13,666	1,018,333 1,045,869	154,960 152,109 131,535 136,001	808,534 866,224 914,333 937,003	639,186 681,923 717,688 738,896	169,348 184,301 196,646 198,107	102,535 112,677 124,059 129,693	66,813 71,625 72,587 68,413
2017 Dec	879,462	216,300	663,162	438,824	224,338	210,673	13,666	1,073,004	136,001	937,003	738,896	198,107	129,693	68,413
2018 Jan Feb Mar	882,690 887,933 904,879	224,986 224,648 228,815	657,704 663,285 676,064	436,357 439,284 441,346	221,347 224,001 234,718	207,523 210,115 220,890	13,824 13,886 13,828	1,070,728 1,085,830 1,097,127	130,675 129,196 132,952	940,053 956,634 964,175	745,611 759,351 759,309	194,443 197,283 204,867	124,933 127,076 134,620	69,509 70,207 70,247
Apr May	902,159 896,738	226,492	675,668	447,451	228,217	214,343	13,874		126,092	960,622 965,121	763,887	196,735	125,846 124,190	70,889 71,898
	Industria	ıl countri	es 1											
2014 2015 2016 2017	735,152 767,018 754,210 761,078	275,277 260,389 239,866 212,247	459,876 506,629 514,344 548,830	330,740 373,705 374,776 396,409	129,136 132,924 139,568 152,422	116,037 119,877 126,889 140,229	13,099 13,047 12,679 12,193	872,950 918,524 943,314 969,214	153,807 147,252 127,540 129,153	719,142 771,272 815,774 840,060	598,249 644,228 682,238 701,848	120,894 127,044 133,536 138,212	85,432 91,130 96,378 104,583	35,461 35,914 37,158 33,629
2017 Dec	761,078	212,247	548,830	396,409	152,422	140,229	12,193	969,214	129,153	840,060	701,848	138,212	104,583	33,629
2018 Jan Feb Mar	765,019 768,227 783,096	220,912 220,485 224,723	544,107 547,742 558,373	393,460 395,684 398,065	150,647 152,058 160,308	138,449 139,792 148,102	12,198 12,266 12,206	964,879 981,205 984,827	121,947 122,026 121,642	842,932 859,179 863,185	706,863 721,624 720,607	136,068 137,555 142,578	101,612 102,859 108,180	34,456 34,696 34,398
Apr May	780,643 773,280	222,207 216,653	558,436 556,627	402,345 403,444	156,091 153,182	143,940 140,852	12,151 12,331	979,674 990,026	116,887 121,892	862,788 868,134	725,030 731,567	137,758 136,567	103,229 101,674	34,529 34,893
	EU mei	mber sta	tes 1											
2014 2015 2016 2017	618,804 630,450 611,322 605,152	260,133 242,362 221,947 192,336	358,671 388,088 389,375 412,815	266,920 293,629 292,074 305,890	91,752 94,459 97,300 106,925	81,141 83,964 87,283 97,037	10,611 10,495 10,017 9,889	727,491 751,636 767,040 796,346	139,209 136,375 117,466 112,898	588,282 615,261 649,573 683,448	504,292 530,824 561,444 587,325	83,989 84,437 88,129 96,123	56,842 58,686 61,234 71,906	27,147 25,751 26,895 24,217
2017 Dec	605,152	192,336	412,815	305,890	106,925	97,037	9,889	796,346	112,898	683,448	587,325	96,123	71,906	24,217
2018 Jan Feb Mar	610,859 614,860 623,052	200,779 199,991 204,057	410,080 414,868 418,995	303,634 306,053 305,562	106,446 108,815 113,433	96,482 98,868 103,483	9,964 9,947 9,950	794,165 807,915 812,202	106,244 106,471 108,362	687,921 701,444 703,840	593,084 603,847 604,123	94,837 97,597 99,717	70,119 72,647 74,803	24,718 24,949 24,914
Apr May	618,946 614,872	200,386 194,205	418,559 420,666	307,098 310,746	111,461 109,921	101,490 99,796	9,972 10,124	807,184 815,616	103,217 106,000	703,967 709,616	606,598 611,880	97,369 97,736	72,470 72,694	24,899 25,041
	of whice	ch: Euro-	area ²											
2014 2015 2016 2017	457,077 468,303 449,741 451,112	204,589 195,218 169,681 148,460	252,488 273,085 280,060 302,652	194,201 211,614 215,560 230,442	58,288 61,471 64,500 72,211	52,067 54,892 57,774 64,753	6,221 6,579 6,726 7,458	607,716 605,579 614,469 634,898	107,561 94,369 77,067 74,496	500,155 511,210 537,402 560,402	445,643 458,386 481,462 495,566	54,513 52,824 55,940 64,836	37,580 38,178 41,076 50,038	16,933 14,646 14,864 14,798
2017 Dec	451,112	148,460	302,652	230,442	72,211	64,753	7,458	634,898	74,496	560,402	495,566	64,836	50,038	14,798
2018 Jan Feb Mar	451,513 448,766 457,092	155,370 151,624 156,608	296,143 297,142 300,485	225,480 225,466 225,837	70,664 71,676 74,648	63,141 64,149 67,098	7,522 7,527 7,549	634,999 645,319 649,780	68,044 68,857 68,277	566,956 576,461 581,503	505,298 513,162 515,229	61,658 63,299 66,274	46,464 47,982 50,736	15,194 15,317 15,539
Apr May	449,522 451,783	149,615 149,412	299,907 302,371	226,350 229,963	73,557 72,408	65,988 64,809	7,569 7,599	644,732 658,015	66,118 67,870	578,614 590,145	513,494 524,097		49,435 50,177	15,685 15,872
	Emergin	g econor	nies and	developii	ng count	ries ³								
2014 2015 2016 2017	100,274 107,753 114,754 116,755	4,849 3,094 2,616 2,619	95,425 104,659 112,138 114,136	34,998 41,992 41,742 42,373	60,427 62,667 70,396 71,764	58,728 61,215 68,896 70,291	1,699 1,452 1,500 1,472	90,545 95,639 99,412 97,759	1,153 886 1,069 1,110	89,392 94,752 98,342 96,650	40,937 37,495 35,250 36,848	48,455 57,257 63,093 59,802	17,103 21,547 27,681 25,110	31,352 35,711 35,412 34,692
2017 Dec	116,755	2,619	114,136	42,373	71,764	70,291	1,472	97,759	1,110	96,650	36,848	59,802	25,110	34,692
2018 Jan Feb Mar	115,931 117,914 119,921	2,539 2,632 2,509	113,391 115,282 117,412	42,830 43,473 43,153	70,561 71,809 74,259	68,935 70,190 72,637	1,626 1,620 1,622	97,894 98,249 101,834	1,091 1,082 1,138	96,803 97,167 100,695	38,548 37,527 38,502	58,256 59,640 62,194	23,291 24,186 26,410	34,965 35,454 35,783
Apr May	119,650 121,552	2,700 2,562	116,950	44,978 47,152	71,972	70,249	1,723	98,867	1,334	97,533	38,657	58,876	22,582	36,294

^{*} The assets and liabilities vis-à-vis non-residents of banks (MFIs) in Germany are shown in Table 4 of Section IV, "Banks". Statistical increases and decreases have not been eliminated; to this extent, the changes in totals are not comparable with the fi-

gures shown in Table XI.7. **1** From July 2013 including Croatia. **2** From January 2014 including Latvia; from January 2015 including Lithuania. **3** All countries that are not regarded as industrial countries. Up to June 2013 including Croatia.

10 ECB's euro foreign exchange reference rates of selected currencies *

EUR 1 = currency units ...

Yearly or monthly	Australia	Canada	China	Denmark	Japan	Norway	Sweden	Switzerland	United Kingdom	
average	AUD	CAD	CNY	DKK	JPY	NOK	SEK	CHF	GBP	USD
2006	1.6668	1.4237	10.0096	7.4591	146.02	8.0472	9.2544	1.5729	0.68173	1.2556
2007	1.6348	1.4678	10.4178	7.4506	161.25	8.0165	9.2501	1.6427	0.68434	1.3705
2008	1.7416	1.5594	10.2236	7.4560	152.45	8.2237	9.6152	1.5874	0.79628	1.4708
2009	1.7727	1.5850	9.5277	7.4462	130.34	8.7278	10.6191	1.5100	0.89094	1.3948
2010	1.4423	1.3651	8.9712	7.4473	116.24	8.0043	9.5373	1.3803	0.85784	1.3257
2011	1.3484	1.3761	8.9960	7.4506	110.96	7.7934	9.0298	1.2326	0.86788	1.3920
2012	1.2407	1.2842	8.1052	7.4437	102.49	7.4751	8.7041	1.2053	0.81087	1.2848
2013	1.3777	1.3684	8.1646	7.4579	129.66	7.8067	8.6515	1.2311	0.84926	1.3281
2014	1.4719	1.4661	8.1857	7.4548	140.31	8.3544	9.0985	1.2146	0.80612	1.3285
2015	1.4777	1.4186	6.9733	7.4587	134.31	8.9496	9.3535	1.0679	0.72584	1.1095
2016	1.4883	1.4659	7.3522	7.4452	120.20	9.2906	9.4689	1.0902	0.81948	1.1069
2017	1.4732	1.4647	7.6290	7.4386	126.71	9.3270	9.6351	1.1117	0.87667	1.1297
2017 Mar	1.4018	1.4306	7.3692	7.4356	120.68	9.0919	9.5279	1.0706	0.86560	1.0685
Apr	1.4241	1.4408	7.3892	7.4376	118.29	9.1993	9.5941	1.0727	0.84824	1.0723
May	1.4878	1.5041	7.6130	7.4400	124.09	9.4001	9.7097	1.0904	0.85554	1.1058
June	1.4861	1.4941	7.6459	7.4376	124.58	9.4992	9.7538	1.0874	0.87724	1.1229
July	1.4772	1.4641	7.7965	7.4366	129.48	9.3988	9.5892	1.1059	0.88617	1.1511
Aug	1.4919	1.4889	7.8760	7.4379	129.70	9.3201	9.5485	1.1398	0.91121	1.1807
Sep	1.4946	1.4639	7.8257	7.4401	131.92	9.3275	9.5334	1.1470	0.89470	1.1915
Oct	1.5099	1.4801	7.7890	7.4429	132.76	9.3976	9.6138	1.1546	0.89071	1.1756
Nov	1.5395	1.4978	7.7723	7.4420	132.39	9.6082	9.8479	1.1640	0.88795	1.1738
Dec	1.5486	1.5108	7.8073	7.4433	133.64	9.8412	9.9370	1.1689	0.88265	1.1836
2018 Jan	1.5340	1.5167	7.8398	7.4455	135.25	9.6464	9.8200	1.1723	0.88331	1.2200
Feb	1.5684	1.5526	7.8068	7.4457	133.29	9.6712	9.9384	1.1542	0.88396	1.2348
Mar	1.5889	1.5943	7.7982	7.4490	130.86	9.5848	10.1608	1.1685	0.88287	1.2336
Apr	1.5972	1.5622	7.7347	7.4479	132.16	9.6202	10.3717	1.1890	0.87726	1.2276
May	1.5695	1.5197	7.5291	7.4482	129.57	9.5642	10.3419	1.1780		1.1812
June	1.5579	1.5327	7.5512	7.4493	128.53	9.4746	10.2788	1.1562		1.1678

^{*} Averages: Bundesbank calculations based on the daily euro foreign exchange reference rates published by the ECB; for additional euro foreign exchange reference rates, see Statistical Supplement 5, Exchange rate statistics.

11 Euro area countries and irrevocable euro conversion rates in the third stage of European Economic and Monetary Union

From	Country	Currency	ISO currency code	EUR 1 = currency units
1999 January 1	Austria	Austrian schilling	ATS	13.7603
	Belgium	Belgian franc	BEF	40.3399
	Finland	Finnish markka	FIM	5.94573
	France	French franc	FRF	6.55957
	Germany	Deutsche Mark	DEM	1.95583
	Ireland	Irish pound	IEP	0.787564
	Italy	Italian lira	ITL	1,936.27
	Luxembourg	Luxembourg franc	LUF	40.3399
	Netherlands	Dutch guilder	NLG	2.20371
	Portugal	Portuguese escudo	PTE	200.482
	Spain	Spanish peseta	ESP	166.386
2001 January 1	Greece	Greek drachma	GRD	340.750
2007 January 1	Slovenia	Slovenian tolar	SIT	239.640
2008 January 1	Cyprus	Cyprus pound	СҮР	0.585274
	Malta	Maltese lira	MTL	0.429300
2009 January 1	Slovakia	Slovak koruna	SKK	30.1260
2011 January 1	Estonia	Estonian kroon	EEK	15.6466
2014 January 1	Latvia	Latvian lats	LVL	0.702804
2015 January 1	Lithuania	Lithuanian litas	LTL	3.45280

12 Effective exchange rates of the Euro and indicators of the German economy's price competitiveness *

1999 Q1=100

	1999 Q1=10		ura via à via tha a	urranciae of the	~~~		Indicators of the	Carman acana	mu's prise sempe	titivonoss			
		ige rate of the El	uro vis-à-vis the c	urrencies of the					my's price compe		David on an arm		
	EER-19 1				EER-38 2				ales 3 vis-à-vis	<u> </u>	Based on consu	mer price indices	vis-a-vis
			In real terms	In real terms			26 selected ii	ndustrial cour	itries 5				
		In real terms	based on the deflators	based on unit labour		In real terms		of which					
		based on consumer	of gross domestic	costs of national		based on consumer		Euro area	Non- euro area		26 selected industrial		
Period	Nominal	price indices	product 3	economy 3	Nominal	price indices	Total	countries	countries	37 countries 5	countries 4	37 countries 5	56 countries 6
1999	96.3	96.1	96.1	96.0	96.5	95.8	97.9	99.5	95.8	97.6	l	98.0	97.7
2000 2001	87.2 87.8	86.7 87.1	86.1 86.5	85.3 86.0	88.0 90.6	85.9 86.9	91.8 91.6	97.3 96.4	85.2 85.9	90.8 90.1	93.0 93.0	92.0 91.4	90.9 90.8
2002 2003	90.1 100.7	90.2 101.2	89.5 100.3	89.3 100.4	95.2 107.1	90.5 101.4	92.2 95.6	95.5 94.5	88.4 97.5	90.6 94.7	93.5 97.0	91.9 96.5	91.7 96.7
2004	100.7	101.2	100.3	100.4	111.7	105.0	95.8	93.3	99.8	94.7	98.4	98.0	98.3
2005	102.9	103.4	100.9	101.6	109.6	102.4	94.6	92.0	98.9	92.8	98.4	96.9	96.5
2006 2007	102.8 106.1	103.3 106.0	100.1 101.8	100.3 102.5	109.6 113.0	101.7 103.6	93.4 94.3	90.3 89.5	98.2 102.0	91.0 91.3	98.5 100.7	96.4 97.8	95.8 96.9
2008 2009	109.3 110.7	108.1 108.8	103.1 104.1	105.7 110.5	117.1 120.2	105.5 106.5	94.4 94.6	88.1 88.9	105.2 104.4	90.3 90.9	102.1 101.7	97.7 97.9	97.0 97.4
2010	103.6	101.1	95.8	102.4	111.6	97.6	92.2	88.6	98.0	87.1	98.7	93.6	91.9
2011 2012	103.3 97.7	100.1 94.8	93.6 88.2	100.9 94.8	112.3 107.2	97.0 92.2	91.8 89.9	88.4 88.3	97.4 92.4	86.2 83.6	98.1 95.8	92.7 89.7	91.3 88.2
2013	101.0	97.7	90.9	97.4	111.8	95.0	92.2	88.8	97.7	85.5	98.1	91.4	90.1
2014	101.4	97.2	90.9	98.3	114.1	95.4	92.9	89.7	97.9	86.2	98.1	91.6	90.7
2015 2016	91.7 94.4	87.6 89.5	82.8 84.9		105.7 109.7		90.1 90.9	90.6 91.1	89.3 90.6	82.5 84.0	94.1 94.7	86.4 87.4	85.8 p 87.0
2017	96.6	91.4	85.8	p 90.0	112.0		92.2	91.3	93.5	84.7	96.0	88.6	
2015 June	91.7 90.7	87.7 86.6			105.2 104.2	86.7 85.7					94.1 93.7	86.4 85.8	85.6 85.0
July Aug	92.4	88.0	83.1	88.2	107.1	87.9	90.2	90.6	89.6	82.8	94.3	86.7	86.4
Sep	93.2	88.9			108.7	89.2					94.5	87.1	87.1
Oct Nov	93.0 90.5	88.8 86.3	83.1	87.9	108.1 105.0	88.7 86.0	90.2	90.8	89.4	82.8	94.5 93.5	87.1 85.8	86.8 85.3
Dec	91.9	87.5			107.1	87.5					93.7	86.2	85.9
2016 Jan Feb	93.0 94.2	88.4 89.3	84.7	p 89.0	108.9 110.3		90.9	91.2	90.3	83.8	93.9 94.4	86.8 87.2	
Mar	93.6	88.8			109.0	p 88.5					94.5	87.0	p 86.7
Apr May	94.4 94.6	89.5 89.9	85.1	p 89.5	109.8 110.2		90.9	91.2	90.6	84.1	94.9 94.8	87.5 87.7	
June	94.4	89.6	55	. 03.3	109.8		30.5	32	30.0	""	94.5	87.5	
July Aug	94.6 94.9	89.8 90.0	85.2	p 89.5	109.5 110.0	p 88.7 p 89.0	91.1	91.1	91.0	84.2	94.8 95.0	87.6 87.6	
Sep	95.1	90.1	05.2	05.5	110.2		31.1	31.1	31.0	04.2	95.1	87.8	
Oct Nov	95.1 94.6	90.3 89.6	84.6	p 89.1	110.0 109.6		90.9	91.0	90.6	83.8	95.4 94.8	87.9 87.5	
Dec	93.7	88.9	04.0	09.1	108.6		90.9	91.0	90.6	03.0	94.6	87.3	
2017 Jan	93.9	89.1	02.4	n 00.1	109.0		00.6	01.0	00.0	02.2	94.5	87.2	
Feb Mar	93.4 94.0	88.9 89.2	83.4	P 88.1	108.1 108.5		90.6	91.0	89.9	83.2	94.5 94.6	87.1 87.2	
Apr	93.7	89.0			108.2						94.5	87.1	
May June	95.6 96.3	90.5 91.2	84.8	p 88.9	110.5 111.4		91.6	91.4	91.8	84.2	95.4 95.9	88.0 88.5	
July	97.6	92.4			113.3						96.6		
Aug Sep	99.0 99.0	93.6 93.6	87.6	p 91.5	115.0 115.0		93.2	91.5	95.8	85.8	97.2 97.3	89.8 89.8	
Oct	98.6	93.1			114.8						97.1	89.5	p 89.0
Nov Dec	98.5 98.8	93.0 93.3	87.4	p 91.3	115.0 115.3		93.3	91.4	96.3	85.7	97.2 97.5	89.5 89.8	
2018 Jan	99.4	93.9			116.1						97.6	89.8	
Feb	99.6	93.9	p 88.0	p 91.7	117.3	p 93.6	p 93.9	p 91.4	97.9	p 86.0	97.7	89.9	p 89.5
Mar Apr	99.7 99.5	94.2 p 93.9			117.7 117.9						97.8 97.7	90.0 p 89.8	
May	98.1	p 92.8			116.6	p 93.1					p 97.4	p 89.4	p 89.4
June	97.9	p 92.7			116.7	p 93.1					p 97.1	p 89.4	P 89.4

^{*} The effective exchange rate corresponds to the weighted external value of the currency concerned. The method of calculating the indicators of the German economy's price competitiveness is consistent with the procedure used by the ECB to compute the effective exchange rates of the euro (see Monthly Report, November 2001, pp 50-53, May 2007, pp 31-35 and August 2017, pp 41-43). For more detailed information on methodology see the ECB's Occasional Paper No 134 (www.ecb.eu). A decline in the figures implies an increase in competitiveness. 1 ECB calculations are based on the weighted averages of the changes in the bilateral exchange rates of the euro vis-à-vis the currencies of the following countries: Australia, Bulgaria, Canada, China, Croatia, Czechia, Denmark, Hong Kong, Hungary, Japan, Norway, Poland, Romania, Singapore, South Korea, Sweden, Switzerland, the United Kingdom and the United States. Where current price and wage indices were not avai-

lable, estimates were used. 2 ECB calculations. Includes countries belonging to the group EER-19 (see footnote 1) and additionally Algeria, Argentina, Brazil, Chile, Iceland, India, Indonesia, Israel, Malaysia, Mexico, Morocco, New Zealand, Philippines, Russian Federation, South Africa, Taiwan, Thailand, Turkey and Venezuela. 3 Annual and quarterly averages. 4 Euro area countries (from 2001 including Greece, from 2007 including Slovenia, from 2008 including Cyprus and Malta, from 2009 including Slovakia, from 2011 including Estonia, from 2014 including Latvia, from 2015 including Lithuania) as well as Canada, Denmark, Japan, Norway, Sweden, Switzerland, the United Kingdom and the United States. 5 Euro area countries (see footnote 4) and countries belonging to the group EER-19. 6 Euro area countries and countries belonging to the group EER-38 (see footnote 2).

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Overview of publications by the Deutsche Bundesbank

This overview provides information about selected recent economic and statistical publications by the Deutsche Bundesbank. Unless otherwise indicated, these publications are available in both English and German, in printed form and on the Bundesbank's website.

The publications are available free of charge from the External Communication Division. Up-to-date figures for some statistical datasets are also available on the Bundesbank's website.

Annual Report

■ Financial Stability Review

Monthly Report

For information on the articles published between 2000 and 2017 see the index attached to the January 2018 Monthly Report.

Monthly Report articles

September 2017

- Monetary policy indicators at the lower bound based on term structure models
- Distributed ledger technologies in payments and securities settlement: potential and risks
- The performance of German credit institutions in 2016
- Changes to the investment funds statistics: scope enhancements, results and outlook

October 2017

- Global liquidity, foreign exchange reserves and exchange rates of emerging market economies
- The natural rate of interest

- The supervisory review and evaluation process for smaller institutions and proportionality considerations
- The Eurosystem's new money market statistical reporting initial results for Germany
- The new ESCB insurance statistics integrated reporting flow and initial results

November 2017

- The current economic situation in Germany

December 2017

- Outlook for the German economy macroeconomic projections for 2018 and 2019 and an outlook for 2020
- German enterprises' profitability and financing in 2016
- Mark-ups of firms in selected European countries
- The Eurosystem's financial market infrastructure origin and future set-up

January 2018

- The impact of the internationalisation of German firms on domestic investment
- The importance of bank profitability and bank capital for monetary policy
- Developments in corporate financing in the euro area since the financial and economic crisis
- Finalising Basel III

February 2018

- The current economic situation in Germany

March 2018

- German balance of payments in 2017
- The demand for euro banknotes at the Bundesbank
- Contingent convertible bonds: design, regulation, usefulness

April 2018

- Wage growth in Germany: assessment and determinants of recent developments
- Germany's external position: new statistical approaches and results since the financial crisis
- Current regulatory developments in the field of payments and in the settlement of securities and derivatives
- Maastricht debt: methodological principles, compilation and development in Germany

May 2018

- The current economic situation in Germany

June 2018

- Outlook for the German economy macroeconomic projections for 2018 and 2019 and an outlook for 2020
- Lower bound, inflation target and the anchoring of inflation expectations

July 2018

- The market for Federal securities: holder structure and the main drivers of yield movements
- The realignment of the Chinese economy and its global implications
- Trends in the financing structures of German non-financial corporations as reflected in the corporate financial statements statistics

Statistical Supplements to the Monthly Report

- 1 Banking statistics^{1, 2}
- 2 Capital market statistics^{1, 2}
- 3 Balance of payments statistics^{1, 2}
- 4 Seasonally adjusted business statistics^{1, 2}
- 5 Exchange rate statistics²

Special Publications

Makro-ökonometrisches Mehr-Länder-Modell, November 1996³

Europäische Organisationen und Gremien im Bereich von Währung und Wirtschaft, May 1997³

Die Zahlungsbilanz der ehemaligen DDR 1975 bis 1989, August 1999³

The market for German Federal securities, May 2000

Macro-Econometric Multi-Country Model: MEMMOD, June 2000

Bundesbank Act, September 2002

Weltweite Organisationen und Gremien im Bereich von Währung und Wirtschaft, March 2013³

Die Europäische Union: Grundlagen und Politikbereiche außerhalb der Wirtschafts- und Währungsunion, April 2005³

Die Deutsche Bundesbank – Aufgabenfelder, rechtlicher Rahmen, Geschichte, April 2006³

European economic and monetary union, April 2008

Special Statistical Publications

- 1 Banking statistics guidelines, January 2018^{2, 4}
- 2 Banking statistics customer classification, January 2018²
- 3 Aufbau der bankstatistischen Tabellen, July 2013^{2, 3}
- 4 Financial accounts for Germany 2011 to 2016, May 2017²
- 5 Extrapolated results from financial statements of German enterprises 1997 to 2015,
 December 2016²
- 6 Verhältniszahlen aus Jahresabschlüssen deutscher Unternehmen von 2014 bis 2015, May 2018^{2, 3}
- 7 Notes on the coding list for the balance of payments statistics, September 2013²
- 8 The balance of payments statistics of the Federal Republic of Germany, 2nd edition, February 1991°
- 9 Securities deposits, August 2005
- 10 Foreign direct investment stock statistics, April 2018^{1, 2}
- 11 Balance of payments by region, July 2013
- 12 Technologische Dienstleistungen in der Zahlungsbilanz, June 2011³

Discussion Papers*

17/2018

Offshoring and the polarisation of the demand for capital

18/2018

Time-varying capital requirements and disclosure rules: effects on capitalization and lending decisions

19/2018

International trade and retail market performance and structure: theory and empirical evidence

20/2018

Quantitative easing, portfolio rebalancing and credit growth: micro evidence from Germany

21/2018

Pre-emptive sovereign debt restructuring and holdout litigation

22/2018

Unconventional monetary policy, bank lending, and security holdings: the yield-induced portfolio rebalancing channel

23/2018

Love and money with inheritance: marital sorting by labor income and inherited wealth in the modern partnership

24/2018

Convertible bonds and bank risk-taking

25/2018

Interest rate pass-through to the rates of core deposits – a new perspective

For footnotes, see p 88°.

o Not available on the website.

^{*} As of 2000 these publications have been made available on the Bundesbank's website in German and English. Since the beginning of 2012, no longer subdivided into series 1 and series 2.

Banking legislation

- 1 Bundesbank Act, July 2013, and Statute of the European System of Central Banks and of the European Central Bank, June 1998
- 2 Banking Act, July 2014²

- 2a Solvency Regulation, December 2006² Liquidity Regulation, December 2006²
- 1 Only the headings and explanatory notes to the data contained in the German originals are available in English.
- **2** Available on the website only.
- 3 Available in German only.
- **4** Only some parts of the Special Statistical Publications are provided in English. The date refers to the German issue, which may be of a more recent date than the English one.