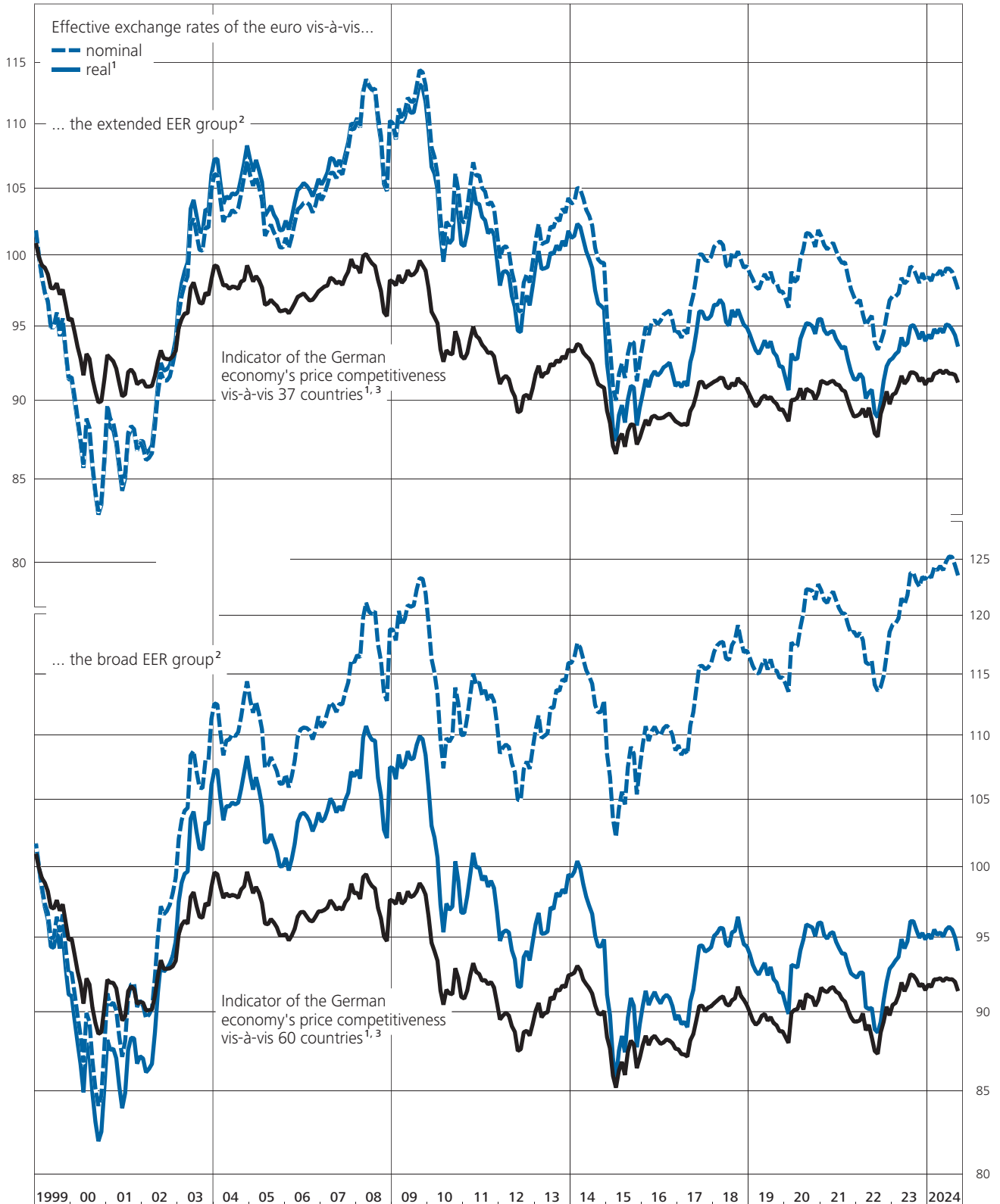


III. Effective exchange rates

1. Effective exchange rates of the euro and indicators of the German economy's price competitiveness*

Q1 1999 = 100, monthly averages, log. scale



* The weights are based on trade in manufactured goods and services. For more detailed information on methodology and definition of country groups, see Explanatory notes, pp. 48–50. A decline in the figures implies an increase in com-

petitiveness. **1** Based on consumer price indices. **2** Includes the 18 respectively 41 most important trading partners of the euro area economy. **3** Includes the 37 respectively 60 most important trading partners of the German economy.

III. Effective exchange rates

2. Effective exchange rates of the euro *

Q1 1999 = 100

Yearly, quarterly or monthly average	Effective exchange rates of the euro vis-à-vis the currencies of the					
	extended EER group of trading partners (fixed composition) ¹			broad EER group of trading partners (fixed composition) ^{2 3}		
	Nominal	In real terms based on consumer price indices	In real terms based on the deflators of gross domestic product	In real terms based on unit labour costs of national economy	Nominal	In real terms based on consumer price indices
1999	96.2	96.1	95.8	96.0	96.5	95.9
2000	87.0	86.8	85.9	85.5	88.0	86.1
2001	87.4	87.1	86.7	84.5	90.1	86.9
2002	89.7	90.3	89.9	88.2	94.4	90.5
2003	100.5	101.6	101.3	99.4	106.5	101.7
2004	104.3	105.6	104.4	102.8	111.0	105.6
2005	102.9	104.3	102.4	100.9	109.1	103.2
2006	102.9	104.3	101.9	99.9	109.3	102.5
2007	106.5	107.3	104.2	101.6	112.9	104.8
2008	110.4	110.3	106.3	105.6	117.8	107.3
2009	111.9	111.1	107.7	109.1	120.8	108.3
2010	104.6	103.3	99.3	101.6	112.1	99.3
2011	104.4	102.4	97.4	99.9	112.9	98.8
2012	98.6	97.0	91.8	94.2	107.6	94.0
2013	102.2	100.1	94.9	97.2	112.4	97.0
2014	102.4	99.5	94.8	97.4	114.7	97.4
2015	92.5	89.6	86.0	86.6	106.1	88.7
2016	95.2	91.6	88.3	p 88.0	110.1	90.7
2017	97.5	93.6	89.5	p 88.9	112.5	92.0
2018	100.0	95.8	91.1	p 90.6	117.3	95.2
2019	98.1	93.3	89.3	p 88.1	115.5	92.5
2020	99.7	93.7	90.6	p 89.2	119.2	93.9
2021	99.6	93.7	89.3	p 87.2	120.5	94.3
2022	95.3	90.8	84.5	p 82.3	116.1	p 90.9
2023	98.1	94.0	89.0	p 85.9	121.8	p 94.7
2022 Dec.	96.8	92.6			118.6	p 92.8
2023 Jan.	97.1	92.8			119.2	p 93.1
Feb.	97.0	93.1	87.4	p 84.7	119.3	p 93.4
Mar.	97.3	93.2			119.7	p 93.6
Apr.	98.4	94.2			121.5	p 94.9
May	98.0	93.6	88.8	p 85.6	120.9	p 94.2
June	98.2	93.8			121.8	p 94.7
July	99.2	95.0			123.7	p 96.1
Aug.	99.0	95.1	90.0	p 86.8	123.7	p 96.1
Sep.	98.5	94.7			123.0	p 95.5
Oct.	98.0	94.1			122.5	p 95.0
Nov.	98.7	94.6	89.8	p 86.8	123.4	p 95.3
Dec.	98.2	93.9			123.2	p 94.8
2024 Jan.	98.4	94.4			123.6	p 95.2
Feb.	98.1	94.1	89.7	p 86.8	123.3	p 94.9
Mar.	98.8	94.8			124.2	p 95.5
Apr.	98.6	p 94.5			124.0	p 95.2
May	98.9	p 94.8	89.8	p 86.9	124.4	p 95.3
June	98.5	p 94.5			124.0	p 95.0
July	99.0	p 95.1			124.8	p 95.5
Aug.	99.0	p 95.0	...	...	125.2	p 95.7
Sep.	98.8	p 94.8			125.2	p 95.5
Oct.	98.2	p 94.3			124.4	p 95.0
Nov.	97.5	p 93.6	...	...	123.5	p 94.1
2024 Dec.	2 96.9	-	-	-	122.9	-
3	97.0	-	-	-	122.9	-
4	96.8	-	-	-	122.7	-
5	97.0	-	-	-	122.8	-
6	97.2	-	-	-	123.0	-
9	97.1	-	-	-	122.9	-
10	96.9	-	-	-	122.6	-
11	96.8	-	-	-	122.6	-
12	96.8	-	-	-	122.5	-
13	97.1	-	-	-	123.0	-
16	97.0	-	-	-	122.8	-
17	97.0	-	-	-	122.9	-
18	97.0	-	-	-	122.9	-
19	96.6	-	-	-	122.4	-
20	96.7	-	-	-	122.3	-
23	96.8	-	-	-	122.4	-
24	96.8	-	-	-	122.4	-
27	97.1	-	-	-	122.9	-
30	97.1	-	-	-	122.9	-

* The weights are based on trade in manufactured goods and services. For information on methodology and grouping of countries, see Explanatory notes, pp. 48-50. A decline in the figures implies an increase in competitiveness. Where current price and wage indices were not available, estimates were used. ¹ Includes the 18 most important trading partners for the euro area economy. ² Includes the 41 most important trading partners for the euro area economy. ³ The ECB has suspended the publication

and calculation of the euro foreign exchange reference rate against Russian rouble with effect from March 2, 2022 until further notice. For the calculation of effective exchange rates, an indicative rate is used for the Russian Federation from that date. It is calculated from the daily RUB/USD rates determined by the Bank of Russia in conjunction with the respective ECB's euro foreign exchange reference rate to the US dollar.

III. Effective exchange rates

3. Indicators of the German economy's price competitiveness *

Q1 1999 = 100

Yearly, quarterly or monthly average	Based on the deflators of total sales vis-à-vis					Based on consumer price indices vis-à-vis							
	27 selected industrial countries ¹				37 countries ²	27 selected industrial countries ¹					37 countries ²	60 countries ^{2 3}	
	Total	of which:		Euro area countries		Non-euro area countries	Total	of which:		Euro area countries			Non-euro area countries
		Euro area countries	Non-euro area countries					Euro area countries	Non-euro area countries				
1999	97.9	99.6	95.7	95.7	97.6	98.3	100.1	96.1	96.1	98.1	97.8		
2000	92.0	97.5	85.5	85.5	91.2	93.1	99.0	86.1	86.1	92.3	91.2		
2001	91.9	96.8	86.2	86.2	90.7	93.0	98.1	86.9	86.9	91.7	91.1		
2002	92.7	96.1	88.7	88.7	91.4	93.5	96.9	89.4	89.4	92.2	91.9		
2003	96.3	95.3	98.0	95.8	95.8	97.0	95.7	99.0	99.0	96.7	96.8		
2004	96.8	94.2	100.6	96.2	96.2	98.5	95.4	102.9	102.9	98.2	98.4		
2005	95.4	92.6	99.4	93.9	93.9	98.5	95.2	103.2	103.2	97.2	96.8		
2006	94.1	91.0	98.8	92.2	92.2	98.6	94.8	104.0	104.0	96.8	96.0		
2007	95.3	90.3	102.9	92.7	92.7	100.9	95.1	109.6	109.6	98.3	97.4		
2008	95.6	89.0	106.1	92.0	92.0	102.4	94.5	114.6	114.6	98.5	97.6		
2009	96.2	90.1	105.8	93.0	93.0	101.9	94.4	113.5	113.5	98.6	97.9		
2010	93.4	89.5	99.2	88.9	88.9	98.8	94.0	105.7	105.7	94.3	92.5		
2011	93.0	89.2	98.6	88.2	88.2	98.2	93.7	104.8	104.8	93.5	91.9		
2012	90.9	89.0	93.5	85.5	85.5	95.9	93.2	99.5	99.5	90.5	88.9		
2013	93.3	89.6	98.6	87.6	87.6	98.1	93.3	105.2	105.2	92.3	90.9		
2014	94.0	90.5	99.1	88.4	88.4	98.2	93.6	104.8	104.8	92.5	91.5		
2015	90.7	91.1	90.1	84.4	84.4	94.3	94.1	94.4	94.4	87.8	86.9		
2016	91.6	91.6	91.7	85.8	85.8	95.0	94.1	96.1	96.1	88.8	88.1		
2017	92.8	91.6	94.6	86.5	86.5	96.3	94.2	99.2	99.2	89.9	88.9		
2018	94.1	91.7	97.6	87.5	87.5	97.7	94.4	102.5	102.5	91.1	90.8		
2019	93.1	91.9	94.8	86.6	86.6	96.4	94.3	99.3	99.3	89.9	89.4		
2020	93.3	92.1	94.9	87.3	87.3	96.4	94.2	99.5	99.5	90.1	90.1		
2021	94.1	92.3	96.8	87.3	87.3	97.4	94.8	101.0	101.0	90.6	90.9		
2022	92.4	91.7	93.1	85.5	85.5	95.9	94.5	97.7	97.7	89.1	89.0		
2023	93.8	91.9	96.5	87.5	87.5	98.0	95.2	101.9	101.9	91.2	91.6		
2021 June						97.9	95.0	102.0	102.0	91.0	91.3		
July						97.8	95.3	101.3	101.3	91.0	91.2		
Aug.	94.3	92.5	97.0	87.5	87.5	97.4	95.1	100.7	100.7	90.7	90.8		
Sep.						97.3	94.8	100.7	100.7	90.6	90.7		
Oct.						96.7	94.6	99.6	99.6	90.0	90.1		
Nov.	93.7	92.4	95.5	86.6	86.6	96.1	94.3	98.6	98.6	89.4	89.6		
Dec.						95.8	94.1	97.9	97.9	88.9	89.4		
2022 Jan.						96.0	94.2	98.4	98.4	89.0	89.4		
Feb.	93.3	92.2	94.6	86.0	86.0	96.2	94.1	98.9	98.9	89.1	89.4		
Mar.						96.3	94.4	98.7	98.7	89.5	89.9		
Apr.						96.1	94.7	97.8	97.8	88.9	88.8		
May	92.5	91.8	93.5	85.4	85.4	96.5	95.2	98.1	98.1	89.5	89.1		
June						95.7	94.2	97.6	97.6	88.7	88.3		
July						94.8	94.1	95.4	95.4	87.9	87.5		
Aug.	91.3	91.3	91.2	84.5	84.5	94.5	93.9	94.9	94.9	87.7	87.3		
Sep.						95.9	94.9	96.9	96.9	89.1	88.7		
Oct.						96.0	94.6	97.6	97.6	89.7	89.4		
Nov.	92.4	91.7	93.3	86.0	86.0	97.0	95.3	99.2	99.2	90.6	90.3		
Dec.						96.2	94.1	99.1	99.1	89.7	89.8		
2023 Jan.						97.5	94.9	101.0	101.0	90.4	90.4		
Feb.	93.2	91.5	95.6	86.4	86.4	97.6	95.0	101.2	101.2	90.5	90.6		
Mar.						98.0	95.4	101.7	101.7	90.9	91.1		
Apr.						98.6	95.6	102.8	102.8	91.6	91.9		
May	93.8	91.9	96.7	87.3	87.3	98.1	95.3	101.9	101.9	91.1	91.3		
June						98.2	95.4	102.1	102.1	91.3	91.8		
July						98.4	95.3	102.8	102.8	91.8	92.5		
Aug.	93.8	91.8	96.7	87.9	87.9	98.3	95.2	102.6	102.6	91.8	92.4		
Sep.						98.0	95.3	101.9	101.9	91.7	92.1		
Oct.						97.7	95.1	101.3	101.3	91.3	91.7		
Nov.	94.3	92.4	97.1	88.2	88.2	98.1	95.1	102.4	102.4	91.5	91.8		
Dec.						97.6	95.0	101.3	101.3	91.0	91.4		
2024 Jan.						97.8	95.1	101.6	101.6	91.4	P 91.8		
Feb.	94.0	92.3	96.5	88.0	88.0	97.7	95.0	101.4	101.4	91.3	P 91.6		
Mar.						98.1	95.2	102.3	102.3	91.8	P 92.1		
Apr.						98.3	95.4	102.5	102.5	91.8	P 92.1		
May	94.2	92.3	97.0	88.1	88.1	98.6	95.4	103.2	103.2	92.0	P 92.2		
June						98.1	95.2	102.3	102.3	91.8	P 92.0		
July						98.4	95.2	103.0	103.0	P 92.0	P 92.2		
Aug.	94.1	92.2	97.0	88.2	88.2	98.2	95.0	102.7	102.7	P 91.8	P 92.1		
Sep.						98.2	95.2	102.5	102.5	P 91.8	P 92.1		
Oct.						98.1	95.3	102.0	102.0	P 91.7	P 92.0		
Nov.	...	...	...	...	...	P 97.4	P 95.1	P 100.7	P 100.7	P 91.2	P 91.4

* The weights are based on trade in manufactured goods and services. For information on methodology and grouping of countries, see Explanatory notes, pp. 48-50. A decline in the figures implies an increase in competitiveness. Where current price and wage indices were not available, estimates were used. ¹ Includes euro area countries (moving composition) as well as the 8 most important trading partners for the German

economy. ² Includes the 37 respectively 60 most important trading partners for the German economy. ³ As of March 2022, for the Russian Federation a monthly average indicative rate is used. It is calculated from the daily RUB/USD rates determined by the Bank of Russia in conjunction with the respective ECB's euro foreign exchange reference rate to the US dollar.