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German Economy Summer 2017 - German economy heating up

Kiel Institute Economic Outlook, No. 32

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KIEL INSTITUTE ECONOMIC OUTLOOK

German EconomySummer 2017

Finalized June 14, 2017

No. 32 (2017 | Q2)

Martin Ademmer, Jens Boysen-Hogrefe, Salomon Fiedler, Dominik Groll, Nils Jannsen, Stefan Kooths, and Galina Potjagailo

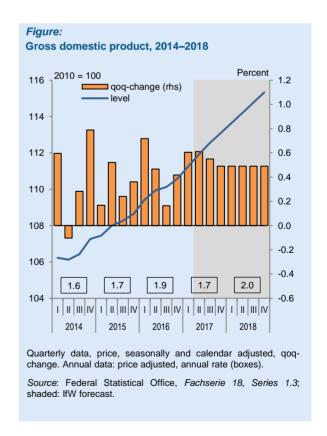


GERMAN ECONOMY HEATING UP

Martin Ademmer, Jens Boysen-Hogrefe, Salomon Fiedler, Dominik Groll, Nils Jannsen, Stefan Kooths, and Galina Potjagailo

The momentum of the expansion of the German economy is strong. Unchanged from our winter and spring forecasts, we expect a rise in gross domestic product by 1.7 percent in the current year and by 2 percent in 2018. This implies that throughout the forecasting period the expansion of aggregate output will remain higher than potential output growth, where the latter represents the long-term sustainable economic development. With capacity utilization already above normal levels, an overheating of the German economy is at the horizon. Against this background, the downward risks for the economy increase. Overall, the German economy will expand on a broad front. Exports are expected to accelerate further, owing to an upswing of the global economy. Construction activity continues to be boosted by the very favorable financing conditions. Moreover, companies are set to expand their investments more quickly due to the favorable business outlook. Private consumption, however, is likely to expand more slowly compared to previous years, mainly because higher inflation has a negative impact on the purchasing power of households' disposable income. Employment continues to rise, and wages are expected to grow more dynamically. Germany's general budget surplus will probably surpass the record level of the previous year. As the high surplus is only a temporary phenomenon resulting from high cyclical dynamics and low interest rates, fiscal policy should refrain from measures that permanently increase expenditures or decrease revenues, unless offsetting actions are taken simultaneously.

The upswing in Germany is set to continue overheating is at the horizon. We continue to expect GDP to grow by 1.7 percent this year and by 2 percent next year. The somewhat lower growth in the current year is due to the lower number of working days; adjusted for calendar effects GDP will grow by 2 percent. Overall, GDP is expected to grow faster than potential output. According to survey indicators capacity utilization is already above normal levels. These indicators include high capacity utilization in the manufacturing, construction, and service sector as well as the low share of firms reporting that a lack of demand is limiting their production. This assessment is supported by our own estimate of German potential output (based on the production function approach of the European Commission) which indicates that the output gap will rise from 0.8 percent in 2016 to close to 2 percent in 2018; higher values for the output gap were only observed before the Global Financial Crisis and after German Reunification.



German foreign trade remains on an expansionary track. After a strong increase over the winter, German exports are expected to grow further at a pronounced rate over the current quarter. The marked growth of nominal exports of goods in April backs this picture. Also, export expectations of



German firms have been at high levels since the beginning of the year and improved further in May; and producers in German export markets remain optimistic regarding their future production levels. We forecast exports to grow at a solid pace over the entire forecast horizon, primarily backed by a broad-based upturn of the global economy and, to a smaller extent, by a slight improvement of German price competitiveness over the current year. German imports grew at a subdued rate during the first quarter of the year, after a strong increase at the end of the previous year. We expect imports to pick up pace in the current quarter and to grow dynamically over the forecast horizon, supported by the expansion of exports and by business investment gaining momentum.

Consumer prices continue their upward movement. Prices for consumers rose by 1.5 percent year-on-year in May. Thus, inflation was somewhat weaker than in April, when it had come in at 2 percent. Energy prices contributed noticeably to this development: whilst they increased by 5.1 percent in the previous month, they rose by 2 percent in May. Additionally, price increases for services excluding rents softened again; here, temporary effects associated with calendrical shifts of the Easter holidays played a role. However, prices picked up momentum in the areas of goods excluding energy —food, especially—and rents. The lower dynamism of the energy component can be explained by oil price movements: after increasing over the turn of the year, such that oil temporarily cost more than 57 dollar per barrel, developments were muted since then, with the oil price falling below the 50-dollar mark recently. Looking ahead, there are no indications of a significant increase in oil prices over the course of the forecasting period. Nevertheless, the increasing overutilization of production capacities in Germany should strengthen the upswing of prices, such that we expect inflation rates of 1.7 percent both for this and for next year.

Private consumption is expanding with somewhat lower rates as the oil price increase leads to losses in purchasing power. Private consumption is expected to grow by 1.1 percent this year and by 1.5 percent in 2018, after having reached rates of 2 percent in both 2015 and 2016. This deceleration is expected to take place although growth in wages and salaries is set to accelerate due to the good shape of the labor market. However, as inflation is markedly picking up, mainly due to the oil price increase, growth in real disposable income will decelerate from above 2 percent in 2016 to 1.1 percent in the current year and 1.5 percent in 2018. This deceleration will only partly be absorbed by the savings rate, which we expect to slightly decline from 9.7 in 2016 to 9.5 percent in 2018 due to the increase in oil prices and low interest rates. A further factor weighing on disposable income in the current year will be a decline in property and entrepreneurial income. In the current environment of high growth rates and above normal capacity utilization such a decline is very unusual. One important reason behind this is the low number of working days in the current year, which has a more pronounced effect on firms' output than on compensation of employees.

Investment will expand at higher rates. Investment in machinery and equipment increased by 1.2 percent in the first quarter of 2017, after having declined for three consecutive quarters. As the dampening effects of policy uncertainty continue to recede, supportive cyclical dynamics will increasingly gain traction. We forecast investment in machinery and equipment to expand by 1.2 percent in the current year and by around 5 percent in 2018. Construction investment is expected to increase by 3.4 percent in the current year and by around 4 percent in the upcoming year, owing to the persistently very favorable financing conditions, the good shape of the labor market, and the increasing demand for additional housing units. Given the already very high levels of capacity utilization in the construction industry, the upswing is likely to cause a considerable increase in construction prices.

Employment is expected to grow further, but likely to decelerate somewhat. Employment growth was exceptionally strong in the fourth and first quarter, witnessing the highest rates since 2008. While



rising further over the entire forecasting horizon, we expect employment to decelerate somewhat. On the one hand, labor costs are expected to accelerate, while labor productivity and domestic prices will tend to be rather weak, resulting in a less favorable relation between labor costs and productivity. On the other hand, labor supply is set to slow down due to demographic reasons as well as smaller gains from migration and labor participation, making large employment gains increasingly unlikely. While the number of refugees without a job has risen significantly in 2016, most of them are not counted as unemployed, since they are participating in integration courses and in active labor market measures. All in all, with continuing strong employment growth, we expect the overall unemployment rate to decline further in 2017 and 2018, albeit less than proportional compared to the increase in employment.

The general government budget will reach further record surpluses in 2017 and 2018. In 2016 a marked increase in corporate tax revenues and the roaring labor market more than offset the additional expenditures due to the refugee influx and led to a record high budget surplus of 26 bn. Euros (0.8 percent in relation to GDP). In 2017 both expenditures and revenues will grow at a lower rate. Because of the favorable economic situation, the budget surplus will increase even further, even though the federal government has to refund the tax on nuclear fuel. In 2018 the ongoing upswing will induce a further increase in the surplus, which is, however, dampened by a remarkable jump in planned transfer payments to the EU. Overall, surpluses are due to business cycle conditions and low interest payments.

Key indicators, 2015–2018				
	2015	2016	2017	2018
Gross domestic product (GDP), price-adjusted	1.7	1.9	1.7	2.0
Gross domestic product, deflator	2.0	1.4	1.1	1.8
Consumer prices	0.2	0.5	1.7	1.7
Labor productivity (per hour worked)	0.8	0.9	1.1	1.2
Employment (1,000 persons)	43,057	43,594	44,215	44,665
Unemployment rate (percent)	6.4	6.1	5.7	5.4
in relation to nominal GDP				
Public sector net lending	0.7	0.8	1.0	1.1
Gross public debt	71.2	68.3	65.5	61.9
Current account balance	8.5	8.5	7.9	7.8

GDP, consumer prices, labor productivity: percentage change on previous year; unemployment rate: as defined by the Federal Employment Agency.

Source: Federal Statistical Office, Fachserie 18, Series 1.2; Federal Employment Agency, Monthly Bulletin; Federal Employment Agency, Employment Statistics; shaded: IfW forecast.



Data annex

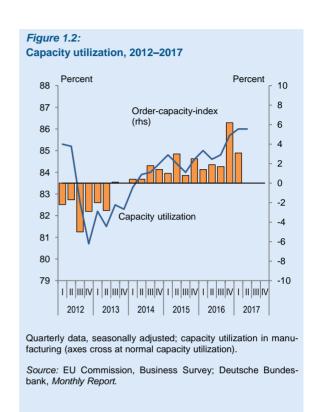
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1. Leading indicators

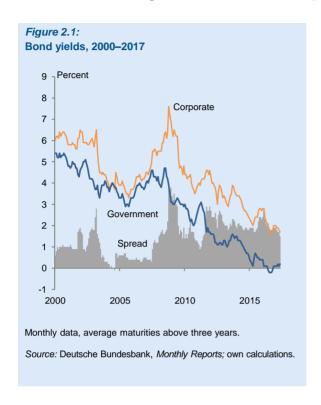
Figure 1.1: Leading indicators, 2009-2017 Incoming orders in manufacturing 2010=100 125 From abroad 115 105 Total 95 85 75 2009 2010 2011 2012 2013 2014 2015 2016 2017 Production 2010=100 130 125 Construction 120 115 110 Manufacturing 105 100 95 90 85 80 2009 2010 2011 2012 2013 2014 2015 2016 2017 Business climate 2005=100 125 120 115 110 105 100 95 Expectations 90 85 80 2009 2010 2011 2012 2013 2014 2015 2016 2017 Monthly data, seasonally adjusted; incoming orders in manufacturing and production: 3-month moving average. Source: Deutsche Bundesbank, Saisonbereinigte zahlen; ifo, Konjunkturperspektiven; own calculations.

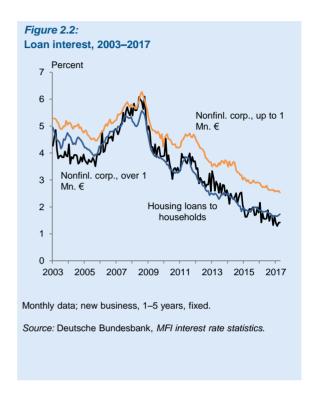






2. Monetary conditions and prices





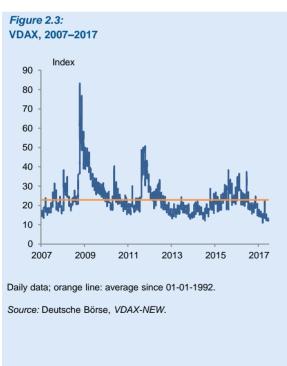




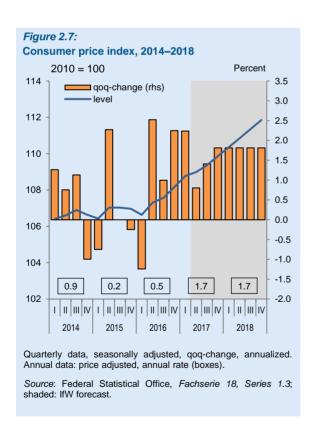


Figure 2.5: Credit impulse, 2005-2017 Percentage Points 1.5 Households: Non-Housing Households: Housing Loans Nonfinancial Corporations Total 0.5 0 -0.5 2005 2007 2009 2011 2013 2015 2017

Quarterly data, most recent quarter based on first month; calculations follow Biggs et al. (2009).

The credit impulse is the change of the credit growth relative to the growth in GDP.

Source: Deutsche Bundesbank, Seasonally Adjusted Business Statistics; own calculations.



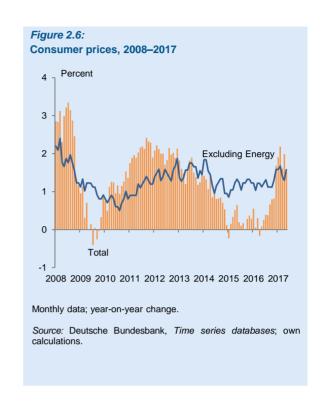




Table 2.1: Projections and assumptions on the international environment, 2015–2018

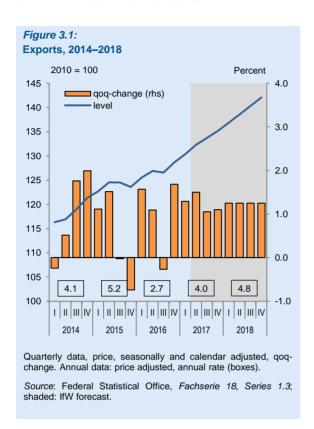
	2015				2016				2017				2018			
	- 1	П	Ш	IV	I	Ш	Ш	IV	ı	П	Ш	IV	- 1	П	Ш	IV
ECB key interest rate	0.05	0.05	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Long-term interest rate	0.4	0.5	0.5	0.5	0.1	0.0	-0.1	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6
US-dollar/euro exchange rate	1.13	1.10	1.12	1.09	1.10	1.13	1.12	1.07	1.07	1.11	1.13	1.13	1.13	1.13	1.13	1.13
Price competitive- ness Export markets Oil price	82.9 0.69 54.1	82.3 0.48 62.1	83.2 0.55 47.0	83.3 0.54 49.5	84.1 0.44 35.3	84.4 0.62 46.8	84.3 0.54 47.0	84.1 0.79 49.5	83.4 0.62 54.7	84.1 0.66 51.9	83.9 0.59 52.2	83.9 0.60 52.4	83.8 0.60 52.7	83.8 0.62 52.9	83.7 0.60 53.2	83.6 0.58 53.4

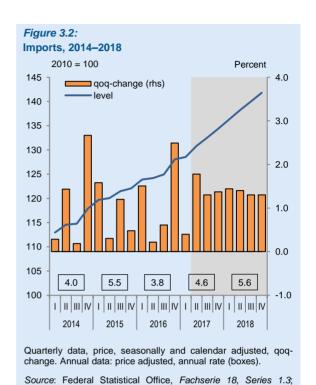
ECB key interest rate: main refinancing operations; long-term interest rate on 9-10 year bonds; price competitiveness: against 37 trading partners, based on the deflators of total sales, index: 1991:I = 100, increasing values indicate deterioration of price competitiveness; export markets: GDP growth in 41 countries, weighted with shares in German exports, change over previous quarter. Oil Price: US-dollar per barrel North Sea Brent.

Source: ECB, Monthly Bulletin; Deutsche Bundesbank, Monthly Bulletin; IMF, International Financial Statistics; own calculations; shaded: IfW forecast or assumption.



3. External trade





German export markets, 2015–2018

4.0 Percent, Percentage pts.

3.5 Rest of the world

□Emerging economies

□Other advanced economies

□EU ex euro area

□Euro Area

□Euro Area

Annual data, volumes; GDP growth in 59 countries, weighted with shares in German exports.

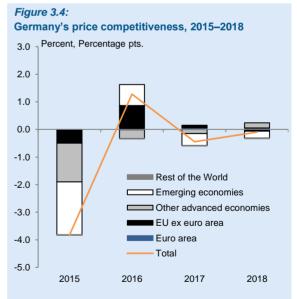
2017

2018

2016

0.0

Source: Federal Statistical Office, Fachserie 7 Series 1; national sources; own calculations; 2017–2018: IfW forecast.



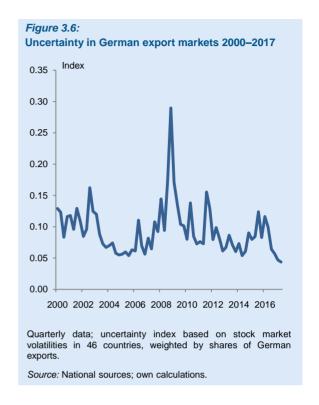
shaded: IfW forecast

Annual data; against 59 countries based on consumer prices; weights according to Germany's price competitiveness indicator against 56 trading partners based on consumer price indices from the Deutsche Bundesbank. Increase implies worsening of price competitiveness.

Source: Bundesbank, Monthly Report 8.2015; national sources; own calculations; 2017–2018: IfW forecast.

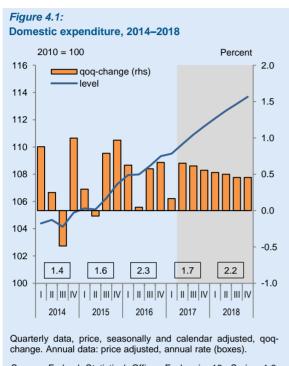


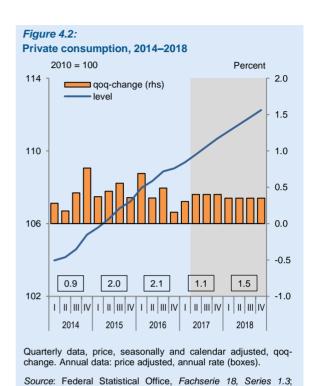
Figure 3.5: Export indicators, 2008-2017 Index 20 1.5 1.0 15 0.5 10 0.0 5 -0.5 -10 0 -1.5 -5 Exports -2.0 -10 -2.5 Rusiness -15 expectations (rhs) -3.0 -20 -3.5 2010 2016 2008 2012 2014 Percent Index 10 30 20 5 10 0 0 -5 -10 Industrial production abroad -10 -20 Export expectations (rhs) -15 -30 -20 -40 2008 2010 2012 2014 2016 Orders from abroad 60 20 10 40 0 20 -10 -20 0 -30 -20 -40 Inflow -40 Level (rhs) -50 -60 -60 2008 2010 2012 2014 2016 Quarterly data; exports, industrial production, order inflow volumes, change on previous year; export expectations, foreign orders on hand: volumes; business expectations, industrial production: based on 41 countries weighted by shares of German Source: Deutsche Bundesbank, Saisonbereinigte Wirtschaftszahlen; Thomson Financial Datastream; ifo, Konjunkturperspektiven; own calculations.





4. **Domestic expenditure**

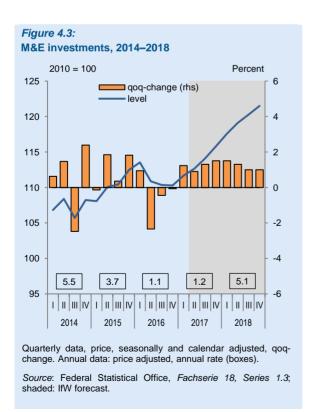


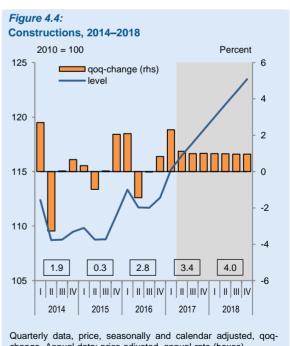


shaded: IfW forecast

Source: Federal Statistical Office, Fachserie 18, Series 1.3;

shaded: IfW forecast.





change. Annual data: price adjusted, annual rate (boxes).

Source: Federal Statistical Office, Fachserie 18, Series 1.3; shaded: IfW forecast.



Figure 4.5: Investment cycles, 1991-2018 Percent 25 6 20 4 Output gap (rhs) 15 10 5 0 -5 -2 -10 Machinery and equipment -15 -4 -20 -25 -6 1991 1995 1999 2003 2007 2011 2015 Annual data; GFCF, machinery and equipment: volumes, change

on previous year; output gap: in percent of potential output.

Source: Federal Statistical Office, Fachserie 18, Series 1.2; own calculations; shaded: IfW forecast.

Figure 4.6: Contributions to changes in real disposable income, 1992-2018 Percentage pts. Percentage pts. 10 10 ☐ Savings rate 8 8 Deflator of private consumption ■ Disposable income 6 6 Private consumption (rhs) 4 4 2 0 -2 -2 -4 -6 1992 1996 2000 2004 2008 2012 2016 Annual data; disposable income including adjustment for the change in pension entitlements. Source: Federal Statistical Office, Fachserie 18, Reihe 1.2; own calculations, shaded: Ifw forecast.

Table 4.1: Gross fixed capital formation, 2015-2018

	2015	2016	2017	2018
Total	1.7	2.2	2.6	4.2
Corporate investment	2.0	1.3	2.4	3.9
Machinery and				
equipment	3.7	1.1	1.2	5.1
Construction (non-				
dwellings)	-1.8	0.0	4.8	2.3
Other	1.9	2.6	2.8	3.0
Dwellings	1.5	4.1	2.9	5.1
Public (non-dwellings)	-0.4	2.6	2.7	2.1
Memorandum item:				
Construction	0.3	2.8	3.4	4.0

Volumes; change over previous year in percent.

Source: Federal Statistical Office, Fachserie 18, Series 1.2; shaded: IfW forecast.



5. Industries

Table 5.1:
Gross value added for industries 2016–2018

	2016		201	17		2018			
	IV	_	II	III	IV	ı			
	Seasonally and calendar adjusted, quarter-on-quarter change in percent								
Gross domestic product	0.4	0.6	0.6	0.6	0.5	0.5			
Gross value added	0.3	0.5	0.6	0.6	0.5	0.5			
Industry excluding construction	-0.2	0.4	0.7	0.5	0.5	0.5			
Manufacturing	-0.2	0.6	0.7	0.5	0.5	0.5			
Construction	-0.6	1.8	0.9	0.9	0.8	0.8			
Trade, transport, accommodation, and food services	1.1	0.2	0.9	0.7	0.7	0.7			
Information and communication	0.1	0.6	1.3	1.3	1.2	1.2			
Financial and insurance services	0.2	0.9	0.1	0.1	0.1	0.0			
Real estate activities	0.3	0.6	0.4	0.4	0.4	0.4			
Business services	0.5	1.2	0.9	0.7	0.5	0.5			
Public services, education, health	0.6	0.1	0.3	0.3	0.3	0.3			
Other services	0.5	0.2	0.2	0.2	0.2	0.2			

Quarterly data, volumes.

Source: Federal Statistical Office, Fachserie 18, Series 1.2 and 1.3; shaded: IfW forecast.



6. Wages

Figure 6.1:
Real unit labor costs, 1991–2018

108
106
104
102
Average
(1991–2016)
98
96
96
99
1991
1995
1999
2003
2007
2011
2015

Yearly data; compensation of employees per hour (nominal) in relation to gross value added per hour (nominal).

Source: Federal Employment Agency, Fachserie 18, Series 1.2; shaded: IfW forecast.

Table 6.1: Wages and productivity, 2015–2018

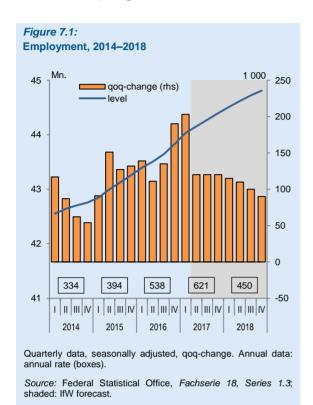
	2015	2016	2017	2018
Per hour				
Negotiated wages	2.2	2.1	2.2	2.5
Gross wages and				
salaries	2.5	2.8	3.6	3.1
Wage drift	0.3	0.7	1.4	0.6
Compensation of				
employees	2.3	2.6	3.4	3.0
Labor productivity	0.8	0.9	1.1	1.2
Unit labor costs	1.5	1.7	2.3	1.7
Unit labor costs (real)	-0.4	0.2	1.2	-0.1
Per capita				
Negotiated wages	2.2	2.1	2.2	2.5
Gross wages and				
salaries	2.7	2.5	2.6	3.0
Wage drift	0.5	0.4	0.4	0.5
Compensation of				
employees	2.4	2.3	2.5	2.8
Labor productivity	0.8	0.6	0.3	1.0
Unit labor costs	1.6	1.7	2.2	1.8
Unit labor costs (real)	-0.3	0.2	1.1	0.0

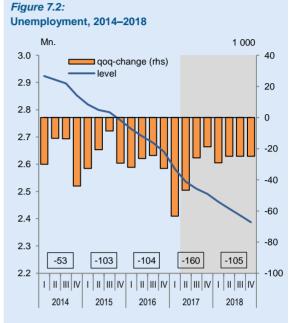
Change over previous year in percent; wage drift: difference between change of negotiated wages and change of gross wages and salaries in percentage points; labor productivity: real GDP per hour or per capita; unit labor costs: compensation of employees (per hour or per capita) in relation to labor productivity; unit labor costs (real): unit labor costs deflated by GDP deflator.

Source: Federal Statistical Office, Fachserie 18, Series 1.2; Deutsche Bundesbank, Negotiated Pay Rate Statistics; shaded: IfW forecast.



7. Employment





Quarterly data, seasonally adjusted, qoq-change. Annual data: annual rate (boxes).

Source: Federal Employment Agency, Monthly Bulletin; shaded: IfW forecast.

Table 7.1: Employment, 2014–2018 (1,000 persons)

	2014	2015	2016	2017	2018
Hours worked (domestic concept, mn. hours)	58,343	58,895	59,444	59,806	60,297
Persons in employment (domestic concept)	42,663	43,057	43,594	44,215	44,665
Self-employed	4,402	4,336	4,305	4,285	4,285
Employees (domestic concept)	38,261	38,721	39,289	39,930	40,380
Employees subject to social security contributions	30,219	30,853	31,511	32,131	32,641
Minijobs	5,028	4,849	4,804	4,769	4,762
Net commuting	61	78	82	82	82
Persons in employment (national concept)	42,602	42,979	43,512	44,133	44,583
Employees (national concept)	38,200	38,644	39,207	39,848	40,298
Unemployed persons (registered)	2,896	2,793	2,689	2,529	2,424
Unemployment rate (registered; percent)	6.7	6.4	6.1	5.7	5.4
Unemployment rate (ILO; percent)	4.7	4.3	3.9	3.6	3.3

Self-employed: including family workers; unemployed persons (registered): definition of the Federal Employment Agency (BA).

Source: Federal Statistical Office, Fachserie 18, Series 1.2; Federal Employment Agency, Monthly Bulletin; Federal Employment Agency, Employment Statistics; shaded: IfW forecast.



8. Public finances

Table 8.1:
Revenues and expenditures of the general government, 2014–2018 (bn. euro)

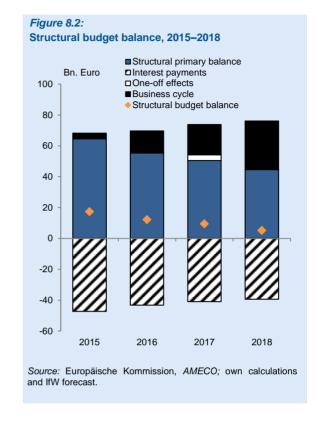
	2014	2015	2016	2017	2018
Revenues	1,306.8	1,354.8	1,414.7	1,463.0	1,515.6
relative to GDP	44.7	44.7	45.1	45.4	45.2
Taxes	668.6	700.0	731.8	759.5	788.1
relative to GDP	22.9	23.1	23.3	23.6	23.5
Social contributions	482.0	500.8	523.3	546.3	567.1
relative to GDP	16.5	16.5	16.7	17.0	16.9
Other revenues	156.1	154.0	159.7	157.2	160.4
relative to GDP	5.3	5.1	5.1	4.9	4.8
Expenditures	1,298.2	1,333.9	1,388.4	1,430.2	1,479.0
relative to GDP	44.4	44.0	44.3	44.4	44.1
Compensation of employees	224.1	228.6	236.7	243.3	250.3
ntermediate consumption	134.3	139.5	150.1	153.4	157.2
Social transfers in kind	240.0	252.4	268.0	280.7	292.2
Gross capital formation	60.9	64.3	66.3	70.4	74.0
Capital transfers	52.0	47.3	43.2	41.0	39.4
Social benefits	452.5	471.0	487.3	505.0	519.3
Subsidies	26.0	27.5	27.0	26.9	27.1
Other current transfers	72.3	75.2	75.5	74.4	86.4
Other capital transfers and investment grants	37.2	29.7	35.4	40.2	34.7
Other expenditures	-1.4	-1.8	-1.3	-5.2	-1.9
·					
let lending/net borrowing	8.6	20.9	26.3	32.7	36.7
relative to GDP	0.3	0.7	0.8	1.0	1.1
Revenues of central, state, and local					
governments	852.1	881.0	919.4	945.4	978.0
Net of transfers from social security funds	851.0	880.0	918.3	944.3	977.0
ransfers from social security funds	1.1	1.1	1.1	1.1	1.1
Expenditures of central, state, and local					
governments	846.5	862.2	901.1	924.1	955.6
Net of transfers to social security funds	744.7	758.0	790.8	807.3	835.5
Fransfers to social security funds	101.8	104.2	110.3	116.9	120.1
Net lending/net borrowing central, state, and					
local government	5.5	18.8	18.3	21.3	22.4
Revenues of social security funds	557.6	579.1	606.7	635.5	658.8
Net of transfers from central, state, and local	007.0	070.1	000.7	000.0	000.0
governments	455.8	474.9	496.4	518.6	538.7
· ·					
Expenditures of social security funds Net of transfers to central, state, and local	554.6	577.0	598.7	624.1	644.6
governments	553.5	575.9	597.6	623.0	643.5
let lending/net borrowing social security					
funds	3.0	2.1	8.0	11.4	14.2

Sums may deviate due to rounding.

Source: Federal Statistical Office, internal worksheet, shaded: IfW forecast.



Figure 8.1: Government gross debt, 2016-2018 ■Debt crisis Percent 3,000 100 □Financial market crisis 90 Other debt 2,500 ♦ In relation to GDP (rhs) 80 70 2,000 60 1,500 50 40 1,000 30 20 500 10 0 0 2016 2017 2018 Debt crisis: Liabilities due to first Greece adjustment program, deposits at the ESM, guarantees for EFSF credits. Financial market crisis: Liabilitites due to bank rescue packages. Source: Bundesbank, Monatsbericht; BMF, Monatsbericht; own



calculations and IfW forecast.



9. GDP and its components

Table 9.1: Quarterly data, 2016–2018

	2016					2017				2018			
	- 1	II	Ш	IV	I	Ш	III	IV	ı	Ш	Ш	IV	
Gross domestic product	0.7	0.5	0.2	0.4	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	
Private consumption	0.7	0.4	0.5	0.2	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.3	
Government consumption	1.6	0.7	0.1	0.3	0.4	0.8	0.7	0.3	0.5	0.4	0.4	0.3	
Machinery and equipment	0.9	-2.3	-0.5	-0.1	1.2	0.9	1.3	1.5	1.5	1.3	1.0	1.0	
Constructions	2.1	-1.4	0.0	0.8	2.3	1.1	1.0	1.0	1.0	1.0	1.0	1.0	
Other investment	0.9	0.7	0.6	0.3	0.8	0.8	0.8	0.8	0.8	0.7	0.6	0.6	
Change in inventories	-0.4	0.0	0.3	0.4	-0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Domestic expenditure	0.6	0.0	0.6	0.7	0.2	0.7	0.6	0.6	0.5	0.5	0.5	0.5	
Exports	1.6	1.1	-0.3	1.7	1.3	1.5	1.0	1.1	1.3	1.2	1.3	1.3	
Imports	1.5	0.2	0.6	2.5	0.4	1.8	1.3	1.4	1.4	1.4	1.3	1.3	
Net exports	0.1	0.4	-0.4	-0.2	0.5	0.0	0.0	0.0	0.0	0.0	0.1	0.1	
Employment (domestic)	43,396	43,507	43,642	43,832	44,035	44,155	44,275	44,395	44,510	44,620	44,720	44,810	
Unemployment (registered)	2,729	2,703	2,679	2,646	2,583	2,536	2,510	2,491	2,462	2,437	2,412	2,387	

Volumes, seasonally and working-day adjusted. Change on previous quarter in percent; change in inventories, net exports: Lundberg component (contribution to GDP growth); employment, unemployment: seasonally adjusted, 1,000 persons; unemployment: as defined by the Federal Employment Agency (BA).

Source: Federal Statistical Office, Fachserie 18, Series 1.3; Federal Employment Agency, Monthly Bulletin; shaded: IfW forecast.

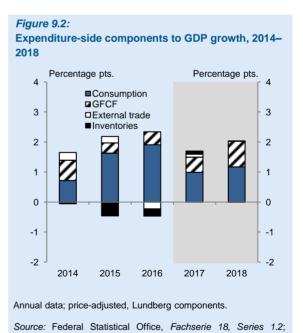
Figure 9.1: Forecast intervals for GDP growth, 2017-2018 6 Percent 5 4 3 2 1 0 -1 -2 -3 2017 2018 GDP: volumes, change over previous year. Point forecasts: orange lines. Forecast intervalls greay shaded areas with confidence levels of 33, 66, and 95 percent. Confidence levels calculated based on historical forecast errors of the Kiel Institute

in the second quarter 1994-2016.

Source: Own calculations.



shaded: IfW forecast.





10. The German economy, 2015–2018

	2016	2015	2016	2017	2018
	€ bn.	Change	over prev	ious year i	n percent
GDP (constant prices)		1.7	1.9	1.7	2.0
Private consumption expenditure		2.0	2.1	1.1	1.5
Public consumption expenditure		2.8	4.0	1.9	1.8
Total fixed investment		1.7	2.2	2.6	4.2
Machinery and equipment		3.7	1.1	1.2	5.1
Construction		0.3	2.8	3.4	4.0
Other equipment		1.9	2.6	2.8	3.0
Changes in stocks		-0.5	-0.2	0.1	0.0
Domestic Demand		1.6	2.3	1.7	2.2
Exports		5.2	2.7	4.0	4.8
Imports		5.5	3.8	4.6	5.6
Net exports		0.2	-0.2	0.1	0.0
GDP (current prices)	3,134.1	3.7	3.3	2.8	3.9
Private consumption expenditure	1,681.5	2.6	2.8	2.7	3.0
Public consumption expenditure	615.3	4.0	5.4	3.7	3.4
Total fixed investment	626.1	3.2	3.7	4.6	6.6
Machinery and equipment	204.4	4.6	2.1	2.0	6.4
Construction	308.7	2.2	4.7	6.4	7.4
Other equipment	112.9	3.5	3.9	4.3	5.1
Changes in stocks (€ bn.)		-20.2	-27.6	-26.6	-27.4
Domestic Demand	2,895.3	2.6	3.3	3.4	3.9
Exports	1,442.2	6.3	1.7	5.9	5.5
Imports	1,203.5	3.9	1.2	7.9	5.8
Net exports (€ bn.)		229.5	238.8	228.0	236.6
Gross national income	3,198.7	3.7	3.2	2.7	3.8
Deflator of GDP		2.0	1.4	1.1	1.8
Private consumption expenditure		0.6	0.7	1.6	1.5
Public consumption expenditure		1.3	1.3	1.8	1.5
Investment in machinery and equipment		0.9	1.0	0.8	1.2
Investment in construction		1.9	1.8	3.0	3.3
Investment in other equipment		1.6	1.3	1.5	2.0
Exports		1.1	-1.0	1.8	0.7
Imports		-1.4	-2.5	3.2	0.2
Addendum: Consumer prices		0.2	0.5	1.7	1.7
Income distribution					
National income	2,339.2	3.8	3.4	2.5	4.1
Employment income	1,598.4	3.7	3.8	4.2	4.0
in percent of national income		68.0	68.3	69.5	69.4
Entrepreneurial and property income	740.8	4.2	2.4	-1.1	4.4
Disposable income of private households	1,813.9	3.1	2.9	2.7	3.0
Savings rate		9.7	9.7	9.6	9.5
Wages and salaries	1,311.0	3.9	4.0	4.3	4.2
Wage per hour	,	2.5	2.8	3.6	3.1
Unit labor costs		1.5	1.7	2.3	1.7
Productivity per hour		0.8	0.9	1.1	1.2
Unemployment (1,000)		2,793	2,689	2,529	2,424
Rate of unemployment (percent)		6.4	6.1	5.7	5.4
Total employment (1,000)		43,057	43,594	44,215	44,665
Public sector budget balance (€ bn.)		20.9	26.4	32.7	36.7
Public sector budget balance (in percent of GDP)		0.7	0.8	1.0	1.1
Public debts (in percent)		71.2	68.3	65.5	61.9
Change in stocks, net exports: contribution to GDP growth.					
Source: Federal Statistical Office, Fachserie 18, Series 1.2; shade	d: IfW forecast.				



11. National accounts

Forecast period: 2017 to 2018				· · · · · · · · · · · · · · · · · · ·				
	2016	2017	2018	20 H1	17 H2	20 H1)18 H2	
1 Production	•							
 Production Change over the same period of the preceding year in ⁹ 	%							
Persons in employment	1.2	1.4	1.0	1.5	1.4	1.1	1.0	
Hours worked	0.9	0.6	0.8	1.1	0.1	0.7	0.9	
Hours worked by person in employment	- 0.3	- 0.8	- 0.2	- 0.3	- 1.2	- 0.4	0.0	
Labor productivity 1	0.9	1.1	1.2	0.5	1.6	1.3	1.2	
Gross domestic product, price-adjusted	1.9	1.7	2.0	1.7	1.7	1.9	2.1	
2. Use of gross domestic product at current price a) EUR bn.	es							
Consumption expenditure	2 296.8	2 365.4	2 439.4	1 154.1	1 211.3	1 189.0	1 250.4	
Private households ²	1 681.5	1 727.4	1 779.9	843.8	883.6	868.2	911.8	
Government	615.3	638.0	659.5	310.3	327.7	320.8	338.7	
Gross fixed capital formation	626.1	654.8	698.3	314.7	340.1	335.5	362.8	
Machinery and equipment	204.4	208.4	221.8	99.3	109.1	105.5	116.3	
Construction	308.7	328.6	352.8	158.1	170.4	169.7	183.1	
Other products	112.9	117.8	123.7	57.3	60.5	60.3	63.5	
Changes in inventories ³	- 27.6	- 26.6	- 27.4	- 4.5	- 22.1	- 4.3	- 23.1	
Domestic expenditure	2 895.3	2 993.6	3 110.4	1 464.4	1 529.2	1 520.2	1 590.2	
Net exports	238.8	228.0	236.6	120.0	108.0	124.3	112.3	
Exports	1 442.2	1 526.9	1 610.3	755.6	771.3	794.6	815.7	
Imports	1 203.5	1 298.9	1 373.7	635.6	663.4	670.3	703.4	
Gross domestic product	3 134.1	3 221.5	3 347.0	1 584.4	1 637.1	1 644.5	1 702.5	
b) Change over the same period of the preceding year	in %							
Consumption expenditure	3.5	3.0	3.1	3.0	3.0	3.0	3.2	
Private households ²	2.8	2.7	3.0	2.8	2.7	2.9	3.2	
Government	5.4	3.7	3.4	3.5	3.9	3.4	3.4	
Gross fixed capital formation	3.7	4.6	6.6	3.6	5.5	6.6	6.7	
Machinery and equipment	2.1	2.0	6.4	0.6	3.2	6.2	6.6	
Construction	4.7	6.4	7.4	5.5	7.3	7.3	7.4	
Other products	3.9	4.3	5.1	3.9	4.7	5.2	4.9	
Domestic expenditure	3.3	3.4	3.9	3.4	3.4	3.8	4.0	
Exports	1.7	5.9	5.5	6.0	5.8	5.2	5.8	
Imports	1.2	7.9	5.8	8.7	7.2	5.5	6.0	
Gross domestic product	3.3	2.8	3.9	2.6	3.0	3.8	4.0	
3. Use of gross domestic product, price-adjusted a) EUR bn.	d (chain-linked	d, 2010=100)						
Consumption expenditure	2 123.8	2 152.5	2 186.8	1 056.6	1 095.9	1 074.0	1 112.9	
Private households ²	1 572.5	1 590.6	1 614.7	779.2	811.4	790.7	824.0	
Government	550.9	561.3	571.5	277.1	284.3	282.8	288.7	
Gross fixed capital formation	567.2	581.6	606.0	280.4	301.2	292.2	313.8	
Machinery and equipment	196.8	199.2	209.4	94.6	104.6	99.3	110.1	
Construction	267.6	276.6	287.6	134.1	142.5	139.5	148.2	
Other products	103.0	105.8	109.0	51.7	54.2	53.3	55.7	
Domestic expenditure	2 655.6	2 701.6	2 760.2	1 333.1	1 368.4	1 362.0	1 398.2	
Exports	1 389.1	1 445.2	1 514.3	716.3	728.9	748.7	765.6	
Imports	1 200.6	1 255.7	1 325.9	614.1	641.6	648.3	677.7	
Gross domestic product	2 843.4	2 891.7	2 950.2	1 434.9	1 456.7	1 462.8	1 487.4	
b) Change over the same period of the preceding year								
Consumption expenditure	2.6	1.4	1.6	1.3	1.4	1.6	1.6	
Private households ²	2.1	1.1	1.5	1.1	1.2	1.5	1.6	
Government	4.0	1.9	1.8	1.6	2.2	2.1	1.6	
Gross fixed capital formation	2.2	2.6	4.2	1.8	3.3	4.2	4.2	
Machinery and equipment	1.1	1.2	5.1	- 0.1	2.4	5.0	5.3	
Construction	2.8	3.4	4.0	2.7	4.0	4.0	4.0	
Other products	2.6	2.8	3.0	2.6	3.0	3.2	2.8	
Domestic expenditure	2.3	1.7	2.2	1.7	1.7	2.2	2.2	
Exports	2.7	4.0	4.8	4.1	4.0	4.5	5.0	
l '	2.7 3.8 1.9	4.0 4.6 1.7	4.8 5.6 2.0	4.1 4.7 1.7	4.0 4.5 1.7	4.5 5.6 1.9	5.0 5.6 2.1	



A. Deflations (2010=100)	National Accounts (cont.) Forecast period: 2017 to 2018				-			
## A DeTilators (2010-100) **Change of the same period of the proceding year in %* **Provision Construction** **Change of the same period of the proceding year in %* **Change of the same period of the proceding year in %* **Change of the same period of the proceding year in %* **Change of the same period of the proceding year in %* **Change of the same period of the proceding year in %* **Change of the same period of the proceding year in %* **Proceding of the same period		2016	2017	2018				
Change on the same period of the preceding year in 7%	4 Defletors (2010–100)				ПІ	П	ПІ	П
Sovernment consumption								
Gross fisced capital formation 1.5 2.0 2.4 1.8 2.1 2.3 2.4 Construction 1.8 3.0 3.3 2.7 3.2 3.2 Construction 1.8 3.0 3.3 2.7 3.2 3.2 3.2 Construction 1.8 3.0 3.3 2.6 3.2 Construction 1.8 3.0 3.3 2.6 3.2 Construction 1.8 3.0 3.2 Construction 2.1 3.2 Construction 3.1 3.2 Construction 3.2 3.2 Construction 3.3 Construction 3.2 Construction 3.3 Construction		0.7	1.6	1.5	1.6	1.5	1.4	1.6
Bebninery and equipment	· ·							
Construction	· ·				_			
Exports								
Imports Cost								
Second S	1 '							
a) EUR In. Primary income of private households ' 21880	· -							
Pimary income of private households 2188.0 2286.4 2331.7 1111.4 1145.0 1147.5 1184.2 Employers social contributions 287.3 297.6 307.2 1414.2 1514.0 1147.5 1184.2 Employers social contributions 287.3 297.6 307.2 1414.2 1514.0 148.8 1518.4 Cross wages and salaries 1311.0 1367.4 1424.2 652.9 714.4 679.7 744.5	5. National income							
Employers social contributions 287.3 297.6 307.2 144.2 153.4 148.8 158.4 Cross wages and salaries 1311.0 1367.4 1424.2 652.9 714.6 777.2 318.9 281.3 717.5								
Cross wages and salaries	,							
Deher primary income 589.6 591.4 600.2 314.2 277.2 318.9 281.3 281.3 459.2 491.7 212.5 246.7 227.6 264.1 Net national income 2.646.7 271.6 2.823.3 1323.3 1321.3 137.1 1.448.3 200.2 295.4 200.5 200.5 283.1 283.3 292.2 295.4 280.5								
Primary income of other sectors	_							
Net national income								
Consumption of fixed capital 552.0 569.4 587.6 283.1 286.3 292.2 295.4								-
Gross national income memorandum item: 3 198.7 3 285.0 3 410.9 1 606.9 1 678.0 1 667.2 1 743.7 Net national income (factor costs) 2 339.2 2 397.4 2 495.9 1 165.3 1 232.1 1 212.0 1 283.9 Poperty and entrepreneutral income 740.8 732.4 7764.5 388.1 363.3 383.4 383.4 383.4 383.4 383.6 383.1 383.4 383.4 383.4 383.4 383.4 383.4 383.4 383.4 383.4 383.4 332.2 3.3 3.3 3.2 3.1 3.2 3.4 32.2 3.3 3.4 32.2 3.3 3.4 32.2 3.3 3.4 32.2 3.3 3.4 32.2 3.3 3.4 32.2 3.3 3.4 4.2 4.5 4.1 4.1 4.2 4.5 4.1 4.1 4.2 4.5 4.1 4.1 4.2 4.5 4.1 4.1 4.2 4.5 4.1 4.1 4.2 4.0								
Net national income (factor costs)	' <u>- '</u>	3 198.7						
Property and entrepreneural income								
Dompensation of employees	` '							
b) Change over the same period of the preceding year in % Primary income of private households ² 3.3 3.1 3.2 3.4 3.2 3.3 3.3 3.3 3.3 3.3	1							
Primary income of private households 2 3.3 3.1 3.3 3.2 3.1 3.2 3.4 3.2 3.3 3.2 3.1 3.2 3.3 3.2 3.2 3.3 3.2 3.2 3.3 3.2 3.2 3.3 3.2 3.3 3.2 3.3 3.2 3.3 3.2 3.3 3.2 3.3 3.2 3.3 3.2 3.3 3.3 3.2 3.3	Compensation of employees	1 598.4	1 665.0	1 /31.4	797.2	867.8	828.6	902.9
Employers social contributions								
Gross wages and salaries	,							
per employee 2.5 2.6 3.0 2.7 2.5 2.9 3.1 Other primary income 6 2.1 0.3 1.5 0.3 0.2 1.5 1.5 Primary income of other sectors 2.9 0.1 7.1 -1.9 1.9 7.1 7.0 Net national income 3.3 2.6 4.0 2.3 2.9 3.9 4.1 0.5 Net national income 3.3 2.6 4.0 2.3 2.9 3.9 4.1 0.5 Net national income 3.2 2.7 3.8 2.5 2.9 3.8 3.2 0.2 Gross national income 3.2 2.7 3.8 2.5 2.9 3.8 3.9 memorandum item: Net national income (factor costs) 3.4 2.5 4.1 2.1 2.9 4.0 4.2 Property and entrepreneurial income 2.4 -1.1 4.4 -2.5 0.3 4.2 4.6 Compenyand entrepreneurial income 2.4 -1.1 4.4 -2.5 0.3 4.2 4.6 Compensation of employees 3.8 4.2 4.0 4.4 4.0 3.9 4.0 0.3 4.2 4.6 Compensation of employees 3.8 4.2 4.0 4.4 4.0 3.9 4.0 0.0 4.2 Net national income 4.2 4 -1.1 4.4 4.2 5.5 0.3 4.2 4.6 Compensation of employees 3.8 4.2 4.0 4.4 4.0 3.9 4.0 4.0 3.9 4.0 0.0 4.2 Net national income 4.2 4 -1.1 4.4 4.2 5.5 0.3 4.2 4.6 Compensation of employees 3.8 4.2 4.0 4.4 4.0 3.9 4.0 4.0 3.9 4.0 0.0 4.2 Net national income 4.2 4 5.0 S.2 8.0 4.0 5.0 S.2 8.0 S.2 8								
Dther primary income of other sectors 2.9 0.1 7.1 -1.9 1.9 7.1 7.0	1							
Primary income of other sectors 2.9	1							
Net national income 3.3 2.6 4.0 2.3 2.9 3.9 4.1								
Scross national income 3.2 2.7 3.8 2.5 2.9 3.8 3.9								
Memorandum item: Net national income (factor costs) 3.4 2.5 4.1 2.1 2.9 4.0 4.2 4.0 4.2 4.0 4.4 4.0 3.9 4.0 4.2 4.0 4.4 4.0 3.9 4.0 4.2 4.0 4.4 4.0 3.9 4.0 4.2 4.0 4.4 4.0 3.9 4.0 4.0 4.2 4.0 4.4 4.0 3.9 4.0 4.0 4.0 3.9 4.0 4.0 4.0 4.0 3.9 4.0 4.0 4.0 4.0 3.9 4.0 4.0 4.0 4.0 3.9 4.0 4.0 4.0 4.0 3.9 4.0 4.0 4.0 4.0 3.9 4.0 4.0 4.0 4.0 3.9 4.0 4.0 4.0 4.0 3.9 4.0 4.0 4.0 4.0 4.0 3.9 4.0 4.0 4.0 4.0 4.0 3.9 4.0	Consumption of fixed capital	3.0	3.1	3.2	3.2	3.1	3.2	3.2
Net national income (factor costs) 3.4 2.5 4.1 2.1 2.9 4.0 4.2 Property and entrepreneurial income 2.4 -1.1 4.4 -2.5 0.3 4.2 4.6 Compensation of employees 3.8 4.2 4.0 4.4 4.0 3.9 4.0 Separable income of private households 3.8 4.2 4.0 4.4 4.0 3.9 4.0 Separable income of private households 3.8 4.2 4.0 4.4 4.0 3.9 4.0 Separable income of private households 3.8 4.2 4.0 4.4 4.0 3.9 4.0 Separable income of private households 3.8 4.2 4.0 4.4 4.0 3.9 4.0 Separable income of private households 3.8 4.2 4.0 4.4 4.0 3.9 4.0 Separable income of private households 3.8 4.2 4.7 4.4 4.5 Net wages and salaries 3.8 7.905.4 942.6 428.2 477.2 445.5 497.1 Social benefits other than social transfers in kind 542.4 560.8 576.3 280.4 280.5 287.6 288.7 Iess: Levies on social benefits, 114.8 118.5 121.2 59.2 59.3 60.5 60.7 Laxes on consumption 14.8 118.5 121.2 59.2 59.3 60.5 60.7 Characteristic income 589.6 591.4 600.2 314.2 277.2 318.9 281.3 Other transfers received (net) 5 7.72.0 7.67 7.79.6 -38.8 -37.8 -40.4 -39.3 Disposable income 1813.9 1862.4 1918.3 924.7 937.7 951.2 967.2 Change in pension entitlements 48.5 48.9 49.3 24.2 24.7 24.4 24.9 Consumption expenditure 1681.5 1727.4 1779.9 843.8 883.6 868.2 911.8 Saving 180.9 183.9 187.7 105.1 78.8 107.4 80.3 Saving ratio (%) 9.7 9.6 9.5 11.1 8.2 11.0 8.1 Di) Change over the same period of the preceding year in % Mass income 3.5 4.0 3.7 4.3 3.6 3.6 3.8 Net wages and salaries 3.8 4.2 4.1 4.5 4.0	Gross national income	3.2	2.7	3.8	2.5	2.9	3.8	3.9
Property and entrepreneurial income								
Compensation of employees 3.8 4.2 4.0 4.4 4.0 3.9 4.0 4.0 3.9 4.0 4.0 3.9 4.0 4.0 3.9 4.0 4.0 3.9 4.0 4.0 3.9 4.0 4.0 3.9 4.0 4.0 3.9 4.0 4.0 3.9 4.0 4.0 3.9 4.0 4.0 3.9 4.0 4.0 3.9 4.0 4.0 3.9 4.0 4.0 4.0 3.9 4.0 4.0 4.2 4.0 4.0 3.9 4.0 4.0 4.2 4.0 4.0 4.0 4.2 4.0 4.0 4.0 4.2 4.0 4.0 4.0 4.2 4.0 4.0 4.0 4.0 4.2 4.0 4.0 4.2 4.0 4.0 4.2 4.0 4.0 4.0 4.2 4.0 4.0 4.2 4.0 4.0 4.2 4.0 4.0 4.2 4.0 4.0 4.2 4.0 4.0 4.2 4.0 4.0 4.2 4.0 4.0 4.2 4.0 4.0 4.2 4.0 4.0 4.2 4.0 4.0 4.2 4.0 4.0 4.2 4.0 4.0 4.2 5.0 4.0 4.0 4.2 5.0 4.0 4.2 5.0 4.0 4.0 4.2 5.0 4.0 4.2 5.0 4.0 4.2 5.0 4.0 4.2 5.0 4.0 4.2 5.0 4.0 4.2 5.0	· ,							
B. Disposable income of private households 2 a) EUR bn. Mass income 1 296.3 1 347.7 1 397.7 649.4 698.3 672.6 725.1 Net w ages and salaries 868.7 905.4 942.6 428.2 477.2 445.5 497.1 Social benefits other than social transfers in kind 542.4 560.8 576.3 280.4 280.5 287.6 288.7 less: Levies on social benefits, 114.8 118.5 121.2 59.2 59.3 60.5 60.7 taxes on consumption Other primary income 4 589.6 591.4 600.2 314.2 277.2 318.9 281.3 Other transfers received (net) 5 -72.0 -76.7 -79.6 -38.8 -37.8 -40.4 -39.3 Disposable income 1813.9 1862.4 1 918.3 924.7 937.7 951.2 967.2 Change in pension entitlements 48.5 48.9 49.3 24.2 24.7 24.4 24.9 Consumption expenditure 1 681.5 1727.4 1779.9 843.8 883.6 868.2 911.8 Saving 180.9 183.9 187.7 105.1 78.8 107.4 80.3 Saving ratio (%) 6 9.7 9.6 9.5 11.1 8.2 11.0 8.1 b) Change over the same period of the preceding year in % Mass income 3.5 4.0 3.7 4.3 3.6 3.6 3.8 Net w ages and salaries 3.8 4.2 4.1 4.5 4.0 4.0 4.2 Social benefits other than social transfers in kind 3.1 3.4 2.8 4.0 2.8 2.6 3.0 less: Levies on social benefits, 3.9 3.3 2.2 4.3 2.3 2.0 2.4 taxes on consumption Other primary income 4 2.1 0.3 1.5 0.3 0.2 1.5 1.5 Disposable income 2.9 2.7 3.0 2.8 2.7 2.9 3.2	1							
a) EUR bn. Mass income 1 296.3		3.0	4.2	4.0	4.4	4.0	3.9	4.0
Mass income								
Social benefits other than social transfers in kind less: Levies on social benefits, less: Levies on expenditure less: Levies on social benefits, less: Levies on s		1 296.3	1 347.7	1 397.7	649.4	698.3	672.6	725.1
less: Levies on social benefits, taxes on consumption 114.8 118.5 121.2 59.2 59.3 60.5 60.7 taxes on consumption 589.6 591.4 600.2 314.2 277.2 318.9 281.3 Other transfers received (net)	Net wages and salaries	868.7	905.4	942.6	428.2	477.2		497.1
taxes on consumption Other primary income 4 Other primary income 4 Other primary income 4 Other transfers received (net) 5 -72.0 -76.7 -79.6 -38.8 -37.8 -40.4 -39.3 Disposable income 1813.9 1862.4 1918.3 924.7 937.7 951.2 967.2 Change in pension entitlements 48.5 48.9 49.3 24.2 24.7 24.4 24.9 Consumption expenditure 1 681.5 1727.4 1779.9 843.8 883.6 868.2 911.8 Saving 180.9 183.9 187.7 105.1 78.8 107.4 80.3 Saving ratio (%) 6 9.7 9.6 9.5 11.1 8.2 11.0 8.1 b) Change over the same period of the preceding year in W Mass income Net wages and salaries 3.8 4.2 4.1 4.5 5.0 3.6 3.6 3.8 Net wages and salaries 3.8 4.2 4.1 4.5 4.0 4.0 4.2 Social benefits other than social transfers in kind 3.1 3.4 2.8 4.0 2.8 4.0 2.8 2.6 3.0 1ess: Levies on social benefits, 3.9 3.3 2.2 4.3 2.3 2.0 2.4 taxes on consumption Other primary income 4 2.1 0.3 1.5 0.3 0.2 1.5 1.5 Disposable income 2.9 2.7 3.0 2.8 2.7 2.9 3.2		542.4	560.8	576.3	280.4	280.5	287.6	288.7
Other primary income 4 589.6 591.4 600.2 314.2 277.2 318.9 281.3 Other transfers received (net) 5 -72.0 -76.7 -79.6 -38.8 -37.8 -40.4 -39.3 Disposable income 1 813.9 1 862.4 1 918.3 924.7 937.7 951.2 967.2 Change in pension entitlements 48.5 48.9 49.3 24.2 24.7 24.4 24.9 Consumption expenditure 1 681.5 1 727.4 1 779.9 843.8 883.6 868.2 911.8 Saving 180.9 183.9 187.7 105.1 78.8 107.4 80.3 Saving ratio (%) 6 9.7 9.6 9.5 11.1 8.2 11.0 8.1 b) Change over the same period of the preceding year in % Mass income 8.4 4.0 3.7 4.3 3.6 3.6 3.8 Net wages and salaries 3.8 4.2 4.1 4.5 4.0 4.2 4.2 4.1 4.5 <td< td=""><td></td><td>114.8</td><td>118.5</td><td>121.2</td><td>59.2</td><td>59.3</td><td>60.5</td><td>60.7</td></td<>		114.8	118.5	121.2	59.2	59.3	60.5	60.7
Other transfers received (net) 5 -72.0 -76.7 -79.6 -38.8 -37.8 -40.4 -39.3 Disposable income 1 813.9 1 862.4 1 918.3 924.7 937.7 951.2 967.2 Change in pension entitlements 48.5 48.9 49.3 24.2 24.7 24.4 24.9 Consumption expenditure 1 681.5 1 727.4 1 779.9 843.8 883.6 868.2 911.8 Saving 180.9 183.9 187.7 105.1 78.8 107.4 80.3 Saving ratio (%) 6 9.7 9.6 9.5 11.1 8.2 11.0 8.1 b) Change over the same period of the preceding year in % Mass income 3.5 4.0 3.7 4.3 3.6 3.6 3.8 Net wages and salaries 3.8 4.2 4.1 4.5 4.0 4.2 Social benefits other than social transfers in kind 3.1 3.4 2.8 4.0 2.8 2.6 3.0 less: Levies on social benef		F00.0	F04 4	600.0	0440	077.0	040.0	204.0
Disposable income								
Change in pension entitlements 48.5 48.9 49.3 24.2 24.7 24.4 24.9 Consumption expenditure 1 681.5 1 727.4 1 779.9 843.8 883.6 868.2 911.8 Saving 180.9 183.9 187.7 105.1 78.8 107.4 80.3 Saving ratio (%) ° 9.7 9.6 9.5 11.1 8.2 11.0 8.1 b) Change over the same period of the preceding year in % Mass income 3.5 4.0 3.7 4.3 3.6 3.6 3.8 Net wages and salaries 3.8 4.2 4.1 4.5 4.0 4.2 Social benefits other than social transfers in kind 3.1 3.4 2.8 4.0 2.8 2.6 3.0 less: Levies on social benefits, taxes on consumption 3.9 3.3 2.2 4.3 2.3 2.0 2.4 therefore primary income 4 2.1 0.3 1.5 0.3 0.2 1.5 1.5 Disposab								
Saving 180.9 183.9 187.7 105.1 78.8 107.4 80.3	1 .							
Saving 180.9 183.9 187.7 105.1 78.8 107.4 80.3	Consumption expenditure	1 681.5	1 727.4	1 779.9	843.8	883.6	868.2	911.8
b) Change over the same period of the preceding year in % Mass income Net wages and salaries Social benefits other than social transfers in kind 1.1	Saving	180.9	183.9	187.7	105.1	78.8	107.4	80.3
Mass income 3.5 4.0 3.7 4.3 3.6 3.6 3.8 Net w ages and salaries 3.8 4.2 4.1 4.5 4.0 4.0 4.2 Social benefits other than social transfers in kind less: Levies on social benefits, taxes on consumption 3.9 3.3 2.2 4.3 2.3 2.0 2.4 taxes on consumption 2.1 0.3 1.5 0.3 0.2 1.5 1.5 Disposable income 2.9 2.7 3.0 2.7 2.6 2.9 3.1 Consumption expenditure 2.8 2.7 3.0 2.8 2.7 2.9 3.2	Saving ratio (%) 6	9.7	9.6	9.5	11.1	8.2	11.0	8.1
Net wages and salaries 3.8 4.2 4.1 4.5 4.0 4.0 4.2								
Social benefits other than social transfers in kind 3.1 3.4 2.8 4.0 2.8 2.6 3.0								
less: Levies on social benefits, taxes on consumption 2.1 0.3 1.5 0.3 0.2 1.5 1.5	•							
taxes on consumption 2.1 0.3 1.5 0.3 0.2 1.5 1.5 Disposable income 2.9 2.7 3.0 2.7 2.6 2.9 3.1 Consumption expenditure 2.8 2.7 3.0 2.8 2.7 2.9 3.2								
Other primary income 4 2.1 0.3 1.5 0.3 0.2 1.5 1.5 Disposable income 2.9 2.7 3.0 2.7 2.6 2.9 3.1 Consumption expenditure 2.8 2.7 3.0 2.8 2.7 2.9 3.2		3.9	3.3	۷.۷	4.3	2.3	2.0	2.4
Disposable income 2.9 2.7 3.0 2.7 2.6 2.9 3.1 Consumption expenditure 2.8 2.7 3.0 2.8 2.7 2.9 3.2	·	2.1	0.3	1.5	0.3	0.2	1.5	1.5
	Consumption expenditure	2.8	2.7	3.0	2.8	2.7	2.9	3.2
	1 ' '							

2017

H2

H1

ECONOMIC OUTLOOK

National Accounts (cont.)
Forecast period: 2017 to 2018



2018

H2

H1

7. Revenue and expenditure by general governmen	nt 7						
a) EUR bn.							
Revenue							
Taxes	731.8	759.5	788.1	381.1	378.4	395.3	392.8
Social contributions	523.3	546.3	567.1	265.1	281.3	274.9	292.2
Property income	19.3	18.4	19.1	9.4	9.1	10.2	8.9
Other current transfers	20.3	21.0	21.3	9.9	11.1	9.9	11.4
Capital transfers	15.4	11.2	10.5	5.6	5.6	5.2	5.3
Sales	104.5	106.4	109.3	50.0	56.4	50.9	58.5
Other subsidies	0.2	0.2	0.2	0.1	0.1	0.1	0.1
Total	1 414.7	1 463.0	1 515.6	721.0	741.9	746.5	769.1
Expenditure				-			
Intermediate consumption ⁸	418.4	434.2	449.6	209.6	224.6	216.7	233.0
Compensation of employees	236.7	243.3	250.3	116.9	126.3	120.1	130.2
Property income (interest)	43.2	41.0	39.4	20.5	20.5	19.7	19.7
Subsidies	27.0	26.9	27.1	13.1	13.8	13.2	13.9
Social benefits	487.3	505.0	519.3	252.6	252.3	259.3	260.0
Other current transfers	75.5	74.4	86.4	39.4	35.0	45.4	41.0
Capital transfers	35.4	40.2	34.7	14.0	26.2	15.1	19.6
Gross capital formation	66.3	70.4	74.0	30.2	40.1	31.8	42.2
Net acquisitions of non-produced non-financial assets	- 1.3	- 5.2	- 1.9	- 4.4	- 0.8	- 1.1	- 0.8
Total	1 388.4	1 430.2	1 479.0	692.1	738.1	720.2	758.8
Net lending	26.3	32.7	36.7	28.9	3.8	26.4	10.3

2017

2018

2016

Revenue	Ī						
Taxes	4.5	3.8	3.8	4.5	3.1	3.7	3.8
Social contributions	4.5	4.4	3.8	4.6	4.2	3.7	3.9
Property income	- 11.6	- 4.6	3.8	- 6.7	- 2.3	9.1	- 1.7
Other current transfers	4.2	3.4	1.3	4.4	2.5	0.0	2.5
Capital transfers	26.2	- 27.1	- 5.8	- 25.9	- 28.3	- 6.6	- 4.9
Sales	4.2	1.8	2.8	1.7	1.8	1.8	3.6
Other subsidies	- 12.4	2.0	0.0	4.6	0.0	0.0	0.0
Total	4.4	3.4	3.6	3.9	3.0	3.5	3.7
Expenditure							
Intermediate consumption 8	6.7	3.8	3.5	3.3	4.2	3.4	3.7
Compensation of employees	3.5	2.8	2.9	2.9	2.6	2.7	3.0
Property income (interest)	- 8.6	- 5.1	- 3.9	- 3.6	- 6.6	- 3.9	- 3.9
Subsidies	- 1.7	- 0.5	0.8	- 1.7	0.7	0.8	0.8
Social benefits	3.5	3.6	2.8	4.4	2.9	2.6	3.1
Other current transfers	0.3	- 1.4	16.1	- 1.1	- 1.8	15.2	17.1
Capital transfers	19.0	13.8	- 13.8	- 14.9	38.9	7.3	- 25.1
Gross capital formation	3.1	6.2	5.1	4.9	7.2	5.0	5.3
Net acquisitions of non-produced non-financial assets	- 27.3	284.9	- 63.9	718.2	0.0	- 75.8	0.0
Total	4.1	3.0	3.4	2.1	3.9	4.0	2.8

¹ Price-adjusted gross domestic product per hour w orked.

Source: Federal Statistical Office, Fachserie 18: National Accounts; own calculations.

² Incl. non-profit institutions serving households.

³ Incl. acquisitions less disposals of valuables.

⁴ Operating surplus/mixed income, net property income

⁵ Received less payed other current transfers.

⁶ Savings in percent of disposable income (incl. change in pension entitlements).

⁷ Central, regional, local and social security funds.

⁸ Incl. social transfers in kind and other production taxes.