

KIEL INSTITUTE ECONOMIC OUTLOOK

German EconomyAutumn 2017

Finalized September 6, 2017

No. 35 (2017 Q3)

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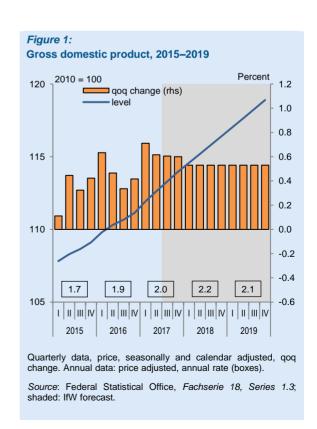
GERMAN ECONOMY APPROACHES BOOM PERIOD

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

The pronounced expansion of the German economy accelerates further. Compared to our summer forecast, we adjust our forecast for the current and the next year upwards, and we expect gross domestic product to grow by 2 percent in the current year and 2.2 percent in the next year (summer forecast: 1.7 percent and 2.0 percent). Also in the year 2019, gross domestic product is expected to grow markedly by 2.1 percent. In the forecasting period, gross domestic product will expand faster than potential output growth, a measure of the long-term sustainable economic development. With capacity utilization already above normal levels, the German economy is approaching a boom period. The expansion is becoming increasingly broad-based: alongside consumption, exports and investment are gaining weight as important pillars of the expansion. Exports are set to grow at stronger rates, stimulated by the upswing of the global economy. Business investment will further gain momentum due to the favorable business outlook and growing needs to expand capacity. Construction activity also continues to increase at high rates due to very favorable financing conditions. Private consumption, however, is likely to slow down somewhat compared to previous years, as markedly higher inflation will dampen the purchasing power of households. With production capacities being highly utilized, domestic price pressure is set to increase, such that we expect inflation to come in at to 2 percent by 2019. Employment continues to rise, even though a gradual slowdown of labor-supply will set a limit on the extent of employment gains. Wages are expected to grow more dynamically. Germany's general budget surplus is set to increase further. However, the surplus is a temporary phenomenon owing to high cyclical dynamics and low interest rates, such that the scope for expansionary fiscal policies remains limited.

Business survey indicators and indicators for capacity utilization suggest that the German economy is approaching a boom period. We expect GDP to grow by 2.0 percent this year and 2.2 in 2018 (Figure 1). Compared to our summer forecast, this is an upward revision of 0.3 percentage points for this year and 0.2 percentage points for 2018. Overall, GDP is expected to grow faster than potential output, so that capacity utilization is set to increase further. Given that capacity utilization is already above normal levels, we expect that the output gap, a standard measure of capacity utilization, will reach values that have not been observed since the run-up to the Global Financial Crisis.

German foreign trade continues to grow at a solid pace. After having increased markedly over the winter half year and at a somewhat lower rate over the last quarter, German exports are expected to grow at a pronounced rate over the current quarter. Export expectations of German firms reached their highest level since 2011 in July and declined only slightly in August. Also production expectations in German export markets are at high





levels and have increased most recently. We expect exports to continue their expansion over the forecast horizon. Positive impulses will stem from the upturn in the Euro area, as well as from the solid expansion in the United States and the economic rebound in emerging markets. To a lesser extent, a worsening of German price competitiveness due to the recent appreciation of the Euro will provide headwinds. German imports grew vividly over the last quarter and are expected to keep up the momentum over the current quarter. We forecast imports to expand at pronounced rates over the entire forecast horizon, backed by solid export growth and by business investment gaining pace. Even though in arithmetical terms the contributions of export and import growth to the expansion of GDP will nearly cancel out over the forecast horizon, export growth will constitute one of the pillars of the expansion.

The inflation of consumer prices is gaining strength. After some erratic behavior at the beginning of the year, which was driven by oil price changes and calendar effects, year-on-year inflation rates have recently followed a sustained upward trend. In August, consumer prices were 1.8 percent higher than they had been one year earlier. But as oil prices have lost their momentum since the beginning of the year and are not expected to rise markedly over the forecast horizon, inflationary pressure should moderate somewhat over the coming winter. At the same time, the overutilization of production capacities is set to increase further over the coming years. This should progressively become visible in a broad-based increase in prices, such that we expect CPI inflation to come in at 1.8 percent in the current year, 1.7 percent in 2018, and 2.0 percent in 2019. These increases surpass the average inflation rate since the introduction of the euro, which stands at roughly 1.4 percent.

Private consumption will remain a pillar of the upswing in Germany. Disposable income is set to increase at high growth rates, mainly due to the good shape of the labor market that comes along with increasing employment numbers and accelerating wage growth. In addition social benefits will increase with a particularly high rate this year due to increases in pension payments. Overall, disposable income is expected to increase by 3.4 percent this year, the highest increase since 2001. Over the next two years disposable income will continue to expand at pronounced rates. However, due to the strong increase in inflation, the growth in real disposable income is expected to slow down somewhat compared to 2016. Overall, we expect private consumption to grow at annual rates of above 1.5 percent between 2017 and 2019. These rates are somewhat lower compared to 2016 (increase by 2.1 percent), but still relatively high in historical terms.

Investment expands strongly. Following an increase by just below 3 percent in 2016, construction investment is expected to rise by more than 4 percent in the current year as well as in 2018 and 2019, owing to the persistently very favorable financing conditions and better income perspectives of private households. Since capacity utilization in the construction industry is already at a record high, the upswing is likely to cause a considerable increase in construction prices. Investment in machinery and equipment is forecast to increase by 2.3 percent in the current year and by around 5 percent in 2018, as the needs to increase capacity become more pressing. Accordingly, after having fallen by more than 20 percent in the course of the crisis, investment in machinery and equipment is about to reach its pre-crisis level in 2017.

The upswing in the labor market is expected to continue throughout the forecasting period. After exceptionally strong hikes around the turn of the year, employment growth slowed down somewhat in the second quarter. Job growth continues to be driven predominantly by the rise in the number of jobs that are subject to social security contributions, while the number of self-employed persons stagnated and the number of so-called minijobs (earning no more than 450 Euro per month) declined further. Persons with a foreign nationality are currently responsible for one-half of the overall increase in employment, and refugees for an estimated one-tenth. Nevertheless, the vast majority of refugees are still without a job. The general labor market conditions will remain very favorable until 2019. Leading indicators have reached levels unseen for several decades or even all-time highs. The economic upswing is set to continue over the entire forecasting horizon. Labor costs are expected to accelerate, as labor market tightness increases further, but they remain favorable from the labor-demand perspective, because labor productivity and especially domestic prices (as measured by the GDP deflator) accelerate as well. However, large employment gains become increasingly unlikely, as



labor-supply is set to slow down due to demographic reasons and smaller gains from migration. While the number of refugees without a job has risen significantly, most of them are not registered as unemployed, since they are participating in integration courses and in active labor market measures, during which they are not counted as unemployed. Against this background, we expect the overall unemployment rate to decline further until 2019, albeit to a smaller extent compared to the increase in employment.

Government budget surplus remains high, while structural budget balance deteriorates. In 2016, government surplus was at a record high despite additional spending related to the refugee inflow. For 2017, revenues are expected to increase at a slightly lower rate, mainly because the extraordinarily strong rise in earnings taxes of the previous year is unlikely to be repeated. Further, tax cuts will weigh on revenues. Expenditures will increase somewhat faster compared to the previous year, mainly because revenues from the tax on nuclear fuel have to be refunded after a decision of the federal constitutional court, and due to expansionary fiscal policy that includes tax cuts and additional social spending. The budget surplus is expected to remain almost constant and the structural budget surplus to be reduced by roughly 10 bill. euro. In 2018, revenues will increase at a higher pace in accordance with the ongoing business cycle upswing. The budget surplus is set to rise again despite higher transfers to the EU, the structural budget balance, however, will remain more or less unchanged. Due to the favorable business cycle conditions, surplus is set to increases further in 2019; the structural budget balance will remain almost unchanged and close to zero.



Table 1: Key indicators, 2016–2019

| | 2016 | 2017 | 2018 | 2019 |
|--|--------|--------|--------|--------|
| Gross domestic product (GDP), price-adjusted | 1.9 | 2.0 | 2.2 | 2.1 |
| Gross domestic product, deflator | 1.3 | 1.5 | 2.0 | 2.0 |
| Consumer prices | 0.5 | 1.8 | 1.7 | 2.0 |
| Labor productivity (per hour worked) | 1.3 | 0.8 | 1.0 | 1.1 |
| Employment (1,000 persons) | 43,638 | 44,293 | 44,847 | 45,342 |
| Unemployment rate (percent) | 6.1 | 5.7 | 5.4 | 5.1 |
| in relation to nominal GDP | | | | |
| Public sector net lending | 0.8 | 0.8 | 1.0 | 1.2 |
| Gross public debt | 68.1 | 65.1 | 61.4 | 57.5 |
| Current account balance | 8.3 | 7.8 | 7.9 | 7.9 |

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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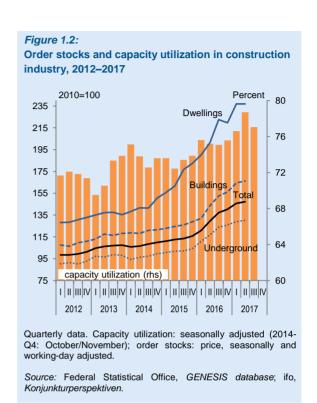
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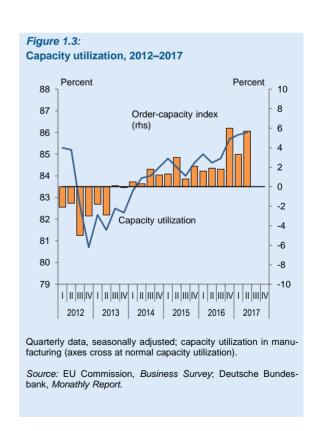


1. Leading indicators

Figure 1.1: Leading indicators, 2009-2017 Incoming orders in manufacturing 2010=100 130 120 110 100 90 From abroad 80 70 2009 2010 2011 2012 2013 2014 2015 2016 2017 Production 2010=100 130 125 120 115 110 105 Manufacturing 100 Construction 95 90 85 80 2009 2010 2011 2012 2013 2014 2015 2016 2017 Business climate 2005=100 130 125 120 115 110 105 100 95 90 Expectations 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.

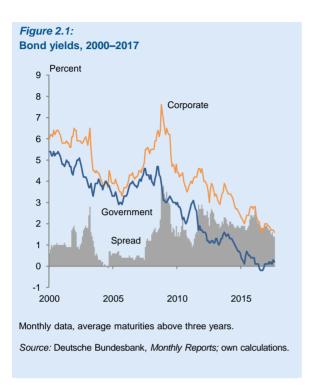
Source: Deutsche Bundesbank, Saisonbereinigte zahlen; ifo, Konjunkturperspektiven; own calculations.

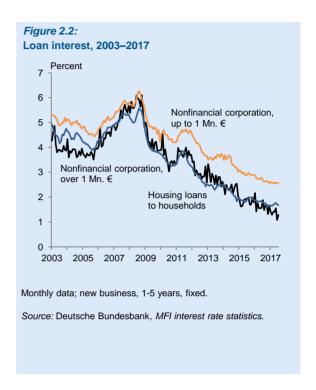


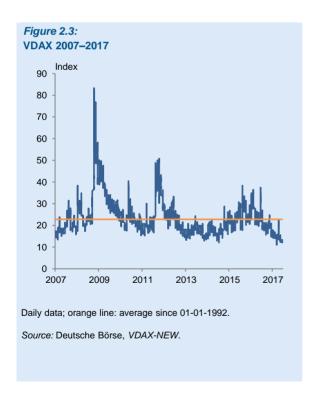




2. Monetary conditions and prices







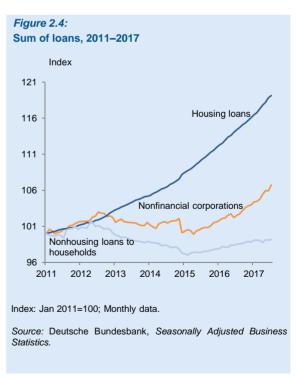
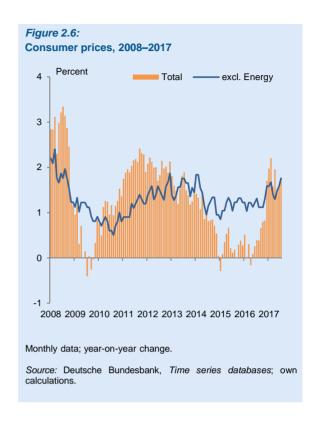




Figure 2.5: Credit impulse, 2005-2017 Percentage Points Households: Nonhousing Households: Housing Loans Nonfinancial Corporations Total 0.5 0 -0.5 -1 -1.5 2005 2011 2007 2009 2013 2015 2017 Quarterly data, most recent quarter based on first month; calculations follow Biggs et al. (2009). The credit impulse is the change of the credit growth relative to the growth in GDP. Source: Deutsche Bundesbank, Seasonally Adjusted Business Statistics; own calculations.



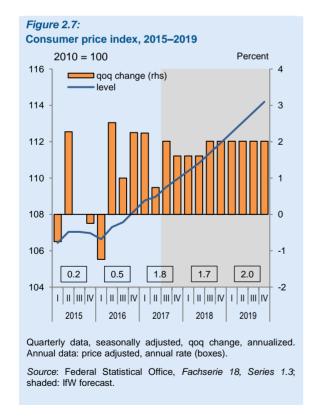




Table 2.1:
Projections and assumptions on the international environment, 2016–2019

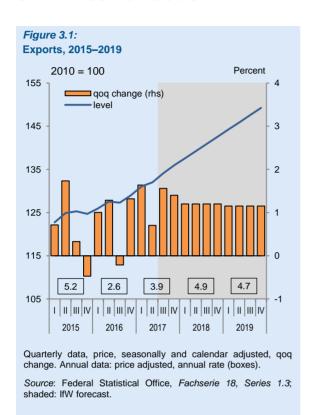
| _ | | 201 | 6 | | | 20 | 17 | | | 20 | 18 | | | 20 | 19 | |
|---|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| | 1 | Ш | Ш | IV | I | П | Ш | IV | - 1 | П | Ш | IV | - 1 | Ш | Ш | IV |
| ECB key interest rate | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.25 | 0.25 |
| Long-term interest rate | 0.1 | 0.0 | -0.1 | 0.2 | 0.3 | 0.3 | 0.3 | 0.4 | 0.5 | 0.5 | 0.6 | 0.7 | 0.7 | 0.8 | 0.9 | 0.9 |
| US-dollar/euro exchange rate | 1.10 | 1.13 | 1.12 | 1.07 | 1.07 | 1.10 | 1.17 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 |
| Price competitive- ness Export markets Oil price | 86.8 0.43 35.3 | 87.2 0.60 46.8 | 87.1 0.54 47.0 | 86.8 0.81 49.5 | 86.2 0.68 54.7 | 86.9 0.90 50.8 | 89.0 0.77 50.9 | 88.7 0.72 52.2 | 88.6 0.66 52.4 | 88.5 0.66 52.6 | 88.5 0.66 52.8 | 88.4 0.64 53.0 | 88.4 0.64 53.2 | 88.3 0.62 53.4 | 88.3 0.62 53.6 | 88.2 0.62 53.8 |

ECB key interest rate: main refinancing operations; long-term interest rate on 9-10 year bonds; price competitiveness: against 36 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



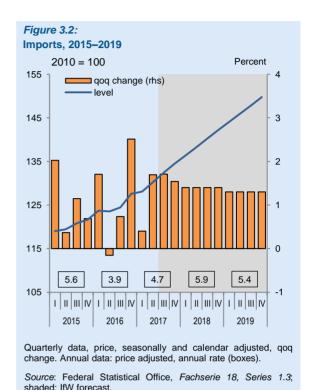
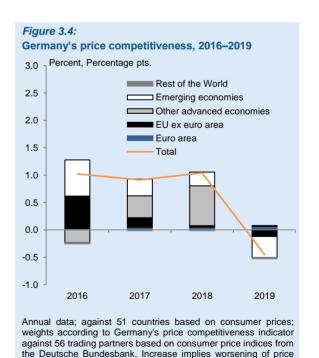


Figure 3.3: German export markets, 2016-2019 ¬ Percent, Percentage pts. Rest of the world □Emerging economies 4 □Other advanced economies ■EU ex euro area ■Euro Area 3 2 1 0 2017 2018 Annual data, volumes; GDP growth in 59 countries, weighted with Source: Federal Statistical Office, Fachserie 7 Series 1; national

sources; own calculations; 2017-2019: IfW forecast.

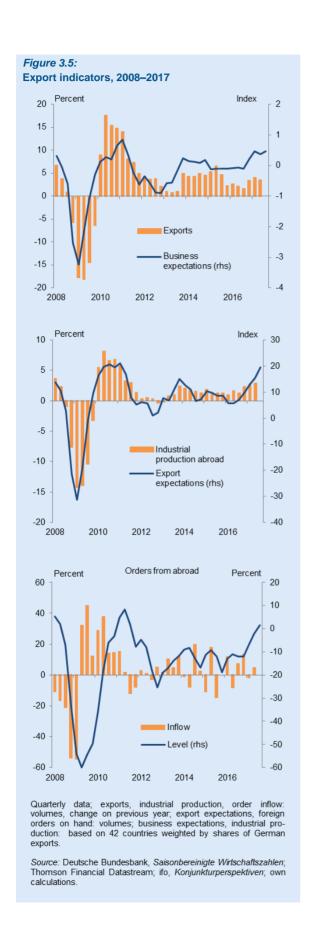


Source: Bundesbank, Monthly Report 8.2017; national sources;

own calculations; 2017-2019: IfW forecast.

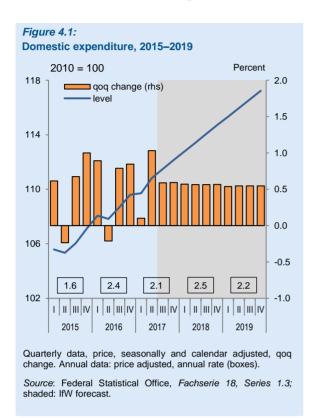
competitiveness.

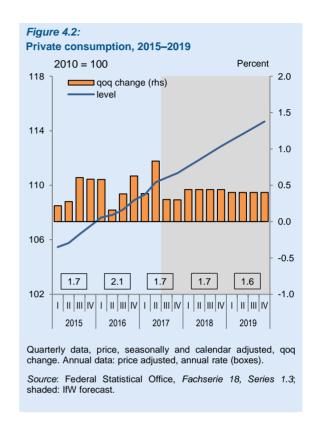






4. Domestic expenditure





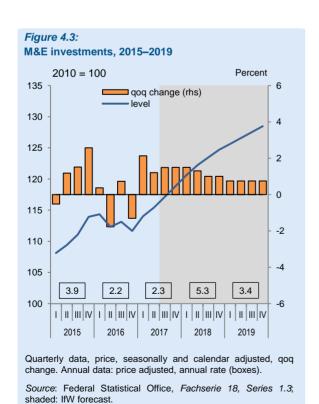






Figure 4.5: Investment cycles, 1991-2019 Output gap (rhs) Percent 25 6 GFCF Machinery and equipment 20 4 15 10 5 0 -5 -2 -10 -15 -4 -20 -25 -6 1991 1995 1999 2003 2007 2011 Annual data; GFCF, machinery and equipment: volumes, change

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

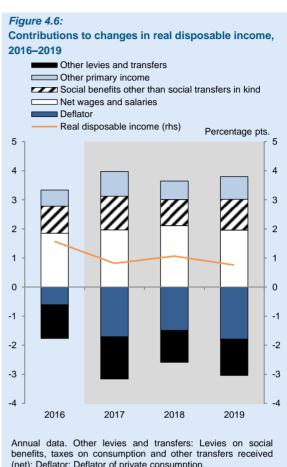
Source: Federal Statistical Office, Fachserie 18, Series 1.2; own calculations; shaded: IfW forecast.

Table 4.1: Gross fixed capital formation, 2016-2019

| | 2016 | 2017 | 2018 | 2019 |
|------------------------|------|------|------|------|
| Total | 3.1 | 3.7 | 4.7 | 4.1 |
| Corporate investment | 2.7 | 3.1 | 4.4 | 3.4 |
| Machinery and | | | | |
| equipment | 2.2 | 2.3 | 5.3 | 3.4 |
| Construction (non- | | | | |
| dwellings) | 0.0 | 3.2 | 1.1 | 2.0 |
| Other | 5.5 | 4.3 | 5.3 | 4.4 |
| Dwellings | 4.0 | 5.4 | 5.9 | 5.7 |
| Public (non-dwellings) | 2.7 | 2.8 | 1.9 | 2.4 |
| Memorandum item: | | | | |
| Construction | 2.7 | 4.5 | 4.1 | 4.4 |

Volumes; change over previous year in percent.

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



(net); Deflator: Deflator of private consumption.

Quelle: Federal Statistical Office, Fachserie 18, Reihe 1.2; own calculations; shaded: IfW forecast.



Industries 5.

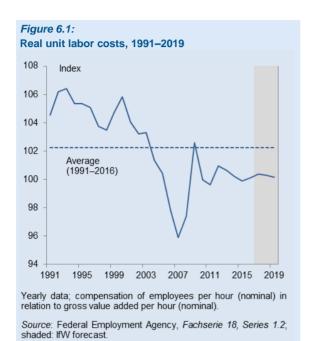
Table 5.1:

| | | | 2018 | | | |
|--|------|-----|--------------|------|------|------|
| | I | П | III | IV | I | II |
| | | | nally and ca | , | , | |
| Gross domestic product | 0.7 | 0.6 | 0.6 | 0.6 | 0.5 | 0.5 |
| Gross value added | 0.8 | 0.7 | 0.6 | 0.6 | 0.5 | 0.5 |
| Industry excluding construction | 0.7 | 1.4 | 0.8 | 0.8 | 0.6 | 0.6 |
| Manufacturing | 1.0 | 1.3 | 0.8 | 8.0 | 0.6 | 0.6 |
| Construction | 2.9 | 1.7 | 0.4 | 0.7 | 0.7 | 0.7 |
| Trade, transport, accommodation, and food services | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.7 |
| Information and communication | 1.2 | 1.0 | 1.8 | 1.8 | 1.6 | 1.6 |
| Financial and insurance services | -0.3 | 0.1 | -0.1 | -0.1 | -0.2 | -0.2 |
| Real estate activities | 0.9 | 0.0 | 0.4 | 0.4 | 0.4 | 0.4 |
| Business services | 1.0 | 0.2 | 0.6 | 0.6 | 0.5 | 0.5 |
| Public services, education, health | 0.3 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 |
| Other services | 0.1 | 0.1 | 0.3 | 0.3 | 0.2 | 0.2 |

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



6. Wages



Wages and productivity, 2016–2019

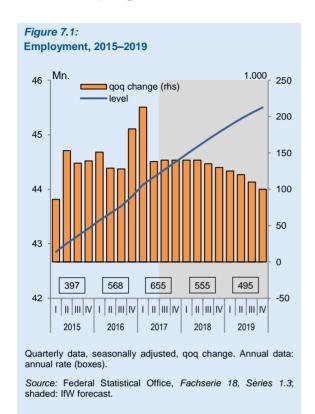
| | 2016 | 2017 | 2018 | 2019 |
|------------------------------|------|------|------|------|
| Per hour | | | | |
| Negotiated wages | 2.1 | 2.1 | 2.4 | 2.6 |
| Gross wages and salaries | 3.2 | 2.8 | 3.1 | 3.2 |
| Wage drift | 1.0 | 0.7 | 0.7 | 0.6 |
| Compensation of employees | 2.9 | 2.6 | 2.9 | 3.0 |
| Labor productivity | 1.3 | 0.8 | 1.0 | 1.1 |
| Unit labor costs | 1.6 | 1.8 | 1.8 | 1.9 |
| Unit labor costs (real) | 0.2 | 0.3 | -0.1 | -0.1 |
| Per capita | | | | |
| Negotiated wages | 2.1 | 2.1 | 2.4 | 2.6 |
| Gross wages and salaries | 2.4 | 2.5 | 3.1 | 3.1 |
| Wage drift | 0.3 | 0.5 | 0.7 | 0.5 |
| Compensation of employees | 2.2 | 2.5 | 2.9 | 2.9 |
| Labor productivity | 0.6 | 0.4 | 1.0 | 1.0 |
| Unit labor costs | 1.6 | 2.0 | 1.9 | 1.9 |
| Unit labor costs (real) | 0.2 | 0.5 | -0.1 | -0.1 |

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**



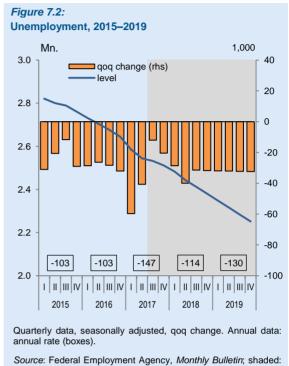


Table 7.1: Employment, 2015-2019 (1,000 persons)

| 2015 | 2016 | 2017 | 2018 | 2019 |
|--------|--|---|---|---|
| 58,905 | 59,244 | 59,966 | 60,677 | 61,272 |
| 43,070 | 43,638 | 44,293 | 44,847 | 45,342 |
| 4,360 | 4,333 | 4,313 | 4,313 | 4,313 |
| 38,710 | 39,305 | 39,980 | 40,534 | 41,029 |
| 30,853 | 31,514 | 32,254 | 32,832 | 33,327 |
| 4,848 | 4,803 | 4,726 | 4,700 | 4,700 |
| 79 | 93 | 105 | 105 | 105 |
| 42,990 | 43,545 | 44,188 | 44,742 | 45,237 |
| 38,631 | 39,211 | 39,875 | 40,429 | 40,924 |
| 2,792 | 2,689 | 2,542 | 2,428 | 2,299 |
| 6.4 | 6.1 | 5.7 | 5.4 | 5.1 |
| 4.3 | 3.9 | 3.5 | 3.2 | 2.8 |
| | 58,905 43,070 4,360 38,710 30,853 4,848 79 42,990 38,631 2,792 6.4 | 58,905 59,244 43,070 43,638 4,360 4,333 38,710 39,305 30,853 31,514 4,848 4,803 79 93 42,990 43,545 38,631 39,211 2,792 2,689 6.4 6.1 | 58,905 59,244 59,966 43,070 43,638 44,293 4,360 4,333 4,313 38,710 39,305 39,980 30,853 31,514 32,254 4,848 4,803 4,726 79 93 105 42,990 43,545 44,188 38,631 39,211 39,875 2,792 2,689 2,542 6.4 6.1 5.7 | 58,905 59,244 59,966 60,677 43,070 43,638 44,293 44,847 4,360 4,333 4,313 4,313 38,710 39,305 39,980 40,534 30,853 31,514 32,254 32,832 4,848 4,803 4,726 4,700 79 93 105 105 42,990 43,545 44,188 44,742 38,631 39,211 39,875 40,429 2,792 2,689 2,542 2,428 6.4 6.1 5.7 5.4 |

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, 2015–2019 (bn. euro)

| | 2015 | 2016 | 2017 | 2018 | 2019 |
|---|---------|---------|---------|---------|---------|
| Revenues | 1,354.3 | 1,414.2 | 1,466.4 | 1,521.7 | 1,581.5 |
| > relative to GDP | 44.5 | 45.0 | 45.1 | 44.9 | 44.7 |
| Taxes | 698.0 | 732.0 | 763.7 | 793.6 | 826.5 |
| relative to GDP | 22.9 | 23.3 | 23.5 | 23.4 | 23.4 |
| Social contributions | 500.8 | 523.8 | 547.0 | 568.9 | 591.8 |
| relative to GDP | 16.5 | 16.7 | 16.8 | 16.8 | 16.7 |
| Other revenues | 155.4 | 158.5 | 155.7 | 159.3 | 163.3 |
| relative to GDP | 5.1 | 5.0 | 4.8 | 4.7 | 4.6 |
| Expenditures | 1,334.9 | 1,388.6 | 1,440.4 | 1,487.2 | 1,539.7 |
| relative to GDP | 43.9 | 44.2 | 44.3 | 43.8 | 43.6 |
| Compensation of employees | 229.2 | 236.5 | 244.0 | 250.6 | 258.7 |
| ntermediate consumption | 142.2 | 150.0 | 155.3 | 160.9 | 167.0 |
| Social transfers in kind | 252.4 | 268.6 | 280.2 | 290.6 | 302.6 |
| Gross capital formation | 64.2 | 66.8 | 70.1 | 74.2 | 78.6 |
| Capital transfers | 46.4 | 41.6 | 39.1 | 37.7 | 37.6 |
| Social benefits | 469.9 | 486.3 | 506.6 | 522.2 | 541.3 |
| Subsidies | 27.0 | 27.8 | 28.8 | 30.2 | 31.7 |
| Other current transfers | 74.8 | 75.7 | 76.1 | 86.6 | 87.7 |
| Other capital transfers and investment grants | 30.0 | 36.4 | 41.4 | 35.3 | 35.7 |
| Other expenditures | -1.3 | -1.3 | -1.4 | -1.4 | -1.4 |
| let lending/net borrowing | 19.4 | 25.7 | 26.0 | 34.6 | 41.8 |
| relative to GDP | 0.6 | 0.8 | 0.8 | 1.0 | 1.2 |
| Revenues of central, state, and local | | | | | |
| governments | 880.0 | 918.7 | 948.3 | 982.5 | 991.3 |
| Net of transfers from social security funds | 879.0 | 917.7 | 947.3 | 981.4 | 990.3 |
| ransfers from social security funds | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| expenditures of central, state, and local | | | | | |
| governments | 863.3 | 901.3 | 931.5 | 960.9 | 963.7 |
| Net of transfers to social security funds | 758.8 | 791.0 | 815.8 | 842.4 | 844.3 |
| ransfers to social security funds | 104.6 | 110.3 | 115.7 | 118.5 | 119.4 |
| let lending/net borrowing central, state, and | | | | | |
| local government | 16.7 | 17.4 | 16.9 | 21.6 | 27.6 |
| Revenues of social security funds | 579.9 | 606.9 | 634.8 | 658.8 | 664.5 |
| Net of transfers from central, state, and local | | | | | |
| governments | 475.3 | 496.6 | 519.2 | 540.3 | 545.1 |
| expenditures of social security funds | 577.2 | 598.6 | 625.7 | 645.9 | 651.6 |
| Net of transfers to central, state, and local | | | | | |
| governments | 576.1 | 597.6 | 624.6 | 644.8 | 650.5 |
| let lending/net borrowing social security | | | | | |
| funds | 2.7 | 8.2 | 9.1 | 12.9 | 12.9 |

Sums may deviate due to rounding.

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



9. **GDP** and its components

Table 9.1: Quarterly data, 2017-2019

| | | 2017 | | | | 2018 | | | | 2019 | | | |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| | I | II | Ш | IV | - 1 | Ш | III | IV | I | Ш | Ш | IV | |
| Gross domestic product | 0.7 | 0.6 | 0.6 | 0.6 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | |
| Private consumption | 0.4 | 0.8 | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | |
| Government consumption | 0.2 | 0.6 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.5 | 0.4 | 0.5 | 0.4 | |
| Machinery and equipment | 2.1 | 1.2 | 1.5 | 1.5 | 1.5 | 1.3 | 1.0 | 1.0 | 0.8 | 0.7 | 0.8 | 0.7 | |
| Constructions | 3.4 | 0.9 | 1.0 | 1.0 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | |
| Other investment | 2.0 | 0.9 | 1.5 | 1.5 | 1.3 | 1.3 | 1.2 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 | |
| Change in inventories | -0.7 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Domestic expenditure | 0.1 | 1.0 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.5 | 0.5 | 0.5 | 0.5 | |
| Exports | 1.6 | 0.7 | 1.6 | 1.4 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.1 | 1.2 | |
| Imports | 0.4 | 1.7 | 1.7 | 1.5 | 1.4 | 1.4 | 1.4 | 1.4 | 1.3 | 1.3 | 1.3 | 1.3 | |
| Net exports | 0.6 | -0.3 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Employment (domestic) | 44,084 | 44,222 | 44,362 | 44,502 | 44,642 | 44,782 | 44,917 | 45,047 | 45,172 | 45,292 | 45,402 | 45,502 | |
| Unemployment (registered) | 2,585 | 2,544 | 2,532 | 2,512 | 2,483 | 2,443 | 2,412 | 2,380 | 2,348 | 2,316 | 2,284 | 2,251 | |

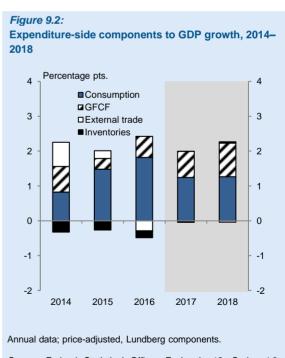
Volumes, seasonally and working-day adjusted. Change on previous quarter in percent; change in inventories, net exports: Lundberg component (contribution to GDP growth); employment, unemployment: seasonally adjusted, 1,000 persons; unemployment: as defined by the Federal Employment Agency (BA).

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 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 third quarter 1994-2016

Source: Own calculations.



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



10. The German economy, 2016–2019

| | 2017 | 2016 | 2017 | 2018 | 2019 |
|--|---------|--------|-----------|--------------|-----------|
| | € bn. | Change | over prev | ious year iı | n percent |
| GDP (constant prices) | | 1.9 | 2.0 | 2.2 | 2.1 |
| Private consumption expenditure | | 2.1 | 1.7 | 1.7 | 1.6 |
| Public consumption expenditure | | 3.7 | 1.6 | 1.7 | 1.8 |
| Total fixed investment | | 3.1 | 3.7 | 4.7 | 4.1 |
| Machinery and equipment | | 2.2 | 2.3 | 5.3 | 3.4 |
| Construction | | 2.7 | 4.5 | 4.1 | 4.4 |
| Other equipment | | 5.5 | 4.3 | 5.3 | 4.4 |
| Changes in stocks | | -0.2 | 0.0 | 0.0 | 0.0 |
| Domestic Demand | | 2.4 | 2.1 | 2.5 | 2.2 |
| Exports | | 2.6 | 3.9 | 4.9 | 4.7 |
| Imports | | 3.9 | 4.7 | 5.9 | 5.4 |
| Net exports | | -0.3 | 0.0 | 0.0 | 0.1 |
| GDP (current prices) | 3,254.0 | 3.3 | 3.5 | 4.2 | 4.1 |
| Private consumption expenditure | 1,732.5 | 2.7 | 3.5 | 3.2 | 3.4 |
| Public consumption expenditure | 638.8 | 4.8 | 3.8 | 3.4 | 3.6 |
| Total fixed investment | 665.8 | 4.3 | 5.7 | 6.9 | 6.2 |
| Machinery and equipment | 211.1 | 2.5 | 2.5 | 6.1 | 4.0 |
| Construction | 328.4 | 4.6 | 7.8 | 7.5 | 7.6 |
| | 126.4 | | | | |
| Other equipment | 120.4 | 6.4 | 5.6 | 7.0 | 6.1 |
| Changes in stocks (€ bn.) | 0.000.5 | -26.4 | -27.7 | -26.9 | -28.6 |
| Domestic Demand | 3,009.5 | 3.3 | 4.0 | 4.1 | 4.1 |
| Exports | 1,529.6 | 1.6 | 5.5 | 5.2 | 5.7 |
| Imports | 1,285.1 | 1.4 | 7.1 | 5.2 | 5.8 |
| Net exports (€ bn.) | | 250.6 | 244.5 | 257.7 | 270.3 |
| Gross national income | 3,309.1 | 3.1 | 3.5 | 4.2 | 4.1 |
| Deflator of GDP | | | , | , | , |
| Private consumption expenditure | | 1.3 | 1.5 | 2.0 | 2.0 |
| Public consumption expenditure | | 0.6 | 1.7 | 1.5 | 1.8 |
| Investment in machinery and equipment | | 1.1 | 2.1 | 1.6 | 1.8 |
| Investment in construction | | 0.4 | 0.3 | 0.7 | 0.5 |
| Investment in other equipment | | 1.9 | 3.2 | 3.2 | 3.1 |
| Exports | | 0.8 | 1.3 | 1.6 | 1.6 |
| Imports | | -1.0 | 1.5 | 0.3 | 0.9 |
| Addendum: Consumer prices | | -2.5 | 2.3 | -0.7 | 0.4 |
| Income distribution | | 0.5 | 1.8 | 1.7 | 2.0 |
| National income | 2,422.3 | 3.2 | 3.6 | 4.6 | 4.4 |
| Employment income | 1,666.8 | 3.8 | 4.2 | 4.3 | 4.2 |
| in percent of national income | 1,000.0 | 68.4 | 68.8 | 68.6 | 68.4 |
| Entrepreneurial and property income | 755.5 | 2.1 | 2.4 | 5.3 | 5.0 |
| Disposable income of private households | 1,866.6 | 2.1 | 3.4 | 3.3 | 3.4 |
| · | 1,000.0 | | | | |
| Savings rate | 4 007 7 | 9.7 | 9.6 | 9.6 | 9.5 |
| Wages and salaries | 1,367.7 | 4.0 | 4.3 | 4.5 | 4.4 |
| Wage per hour | | 3.2 | 2.8 | 3.1 | 3.2 |
| Unit labor costs | | 1.6 | 1.8 | 1.8 | 1.9 |
| Productivity per hour | | 1.3 | 0.8 | 1.0 | 1.1 |
| Unemployment (1,000) | | 2,689 | 2,542 | 2,428 | 2,299 |
| Rate of unemployment (percent) | | 6.1 | 5.7 | 5.4 | 5.1 |
| Total employment (1,000) | | 43,638 | 44,293 | 44,847 | 45,342 |
| Public sector budget balance (€ bn.) | | 25.7 | 26.0 | 34.6 | 41.8 |
| Public sector budget balance (in percent of GDP) | | 0.8 | 0.8 | 1.0 | 1.2 |
| abile sector badget balaries (in percent of CDI) | | 68.1 | 65.1 | | 57.5 |

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



11. National accounts

| National | Accounts |
|----------|----------|
| | |

| Forecast | period: | 2016 | to 2018 |
|----------|---------|------|---------|
| | | | |

| | 2017 | 2017 2018 | | 2018 | | 2019 | |
|--|-------|-----------|-------|-------|-----|-------|-----|
| | 2017 | 2018 | 2019 | H1 | H2 | H1 | H2 |
| 1. Production | | | | | | | |
| Change over the same period of the preceding year in % | | | | | | | |
| Persons in employment | 1.5 | 1.3 | 1.1 | 1.3 | 1.2 | 1.2 | 1.0 |
| Hours worked | 1.2 | 1.2 | 1.0 | 1.1 | 1.2 | 0.7 | 1.3 |
| Hours worked by person in employment | - 0.3 | - 0.1 | - 0.1 | - 0.1 | 0.0 | - 0.5 | 0.2 |
| Labor productivity 1 | 0.8 | 1.0 | 1.1 | 1.0 | 1.1 | 1.2 | 1.0 |
| Gross domestic product, price-adjusted | 2.0 | 2.2 | 2.1 | 2.2 | 2.3 | 1.9 | 2.3 |

| ١. | | |
|----|---------|--|
| | EUR bn. | |
| | | |

| 2 371.3 | 2 449.0 | 2 534.5 | 1 193.3 | 1 255.7 | 1 233.5 | 1 301.0 |
|---------|--|---------|--|---|---|--|
| 1 732.5 | 1 788.7 | 1 850.2 | 872.0 | 916.7 | 900.6 | 949.6 |
| 638.8 | 660.3 | 684.3 | 321.3 | 339.0 | 332.9 | 351.4 |
| 665.8 | 712.0 | 756.1 | 341.8 | 370.3 | 362.2 | 393.9 |
| 211.1 | 223.8 | 232.7 | 106.4 | 117.5 | 110.4 | 122.3 |
| 328.4 | 352.9 | 379.9 | 169.7 | 183.2 | 181.9 | 198.0 |
| 126.4 | 135.3 | 143.6 | 65.7 | 69.6 | 69.9 | 73.6 |
| - 27.7 | - 26.9 | - 28.6 | - 4.7 | - 22.2 | - 5.4 | - 23.3 |
| 3 009.5 | 3 134.2 | 3 262.1 | 1 530.4 | 1 603.8 | 1 590.4 | 1 671.7 |
| 244.5 | 257.7 | 270.3 | 136.3 | 121.4 | 141.9 | 128.4 |
| 1 529.6 | 1 609.5 | 1 700.7 | 796.3 | 813.1 | 838.2 | 862.5 |
| 1 285.1 | 1 351.8 | 1 430.4 | 660.1 | 691.7 | 696.3 | 734.1 |
| 3 254.0 | 3 391.8 | 3 532.3 | 1 666.6 | 1 725.2 | 1 732.2 | 1 800.1 |
| | 1 732.5 638.8 665.8 211.1 328.4 126.4 - 27.7 3 009.5 244.5 1 529.6 1 285.1 | 1 732.5 | 1 732.5 1 788.7 1 850.2 638.8 660.3 684.3 665.8 712.0 756.1 211.1 223.8 232.7 328.4 352.9 379.9 126.4 135.3 143.6 - 27.7 - 26.9 - 28.6 3 009.5 3 134.2 3 262.1 244.5 257.7 270.3 1 529.6 1 609.5 1 700.7 1 285.1 1 351.8 1 430.4 | 1 732.5 1 788.7 1 850.2 872.0 638.8 660.3 684.3 321.3 665.8 712.0 756.1 341.8 211.1 223.8 232.7 106.4 328.4 352.9 379.9 169.7 126.4 135.3 143.6 65.7 -27.7 -26.9 -28.6 -4.7 3 009.5 3 134.2 3 262.1 1 530.4 244.5 257.7 270.3 136.3 1 529.6 1 609.5 1 700.7 796.3 1 285.1 1 351.8 1 430.4 660.1 | 1 732.5 1 788.7 1 850.2 872.0 916.7 638.8 660.3 684.3 321.3 339.0 665.8 712.0 756.1 341.8 370.3 211.1 223.8 232.7 106.4 117.5 328.4 352.9 379.9 169.7 183.2 126.4 135.3 143.6 65.7 69.6 - 27.7 - 26.9 - 28.6 - 4.7 - 22.2 3 009.5 3 134.2 3 262.1 1 530.4 1 603.8 244.5 257.7 270.3 136.3 121.4 1 529.6 1 609.5 1 700.7 796.3 813.1 1 285.1 1 351.8 1 430.4 660.1 691.7 | 1 732.5 1 788.7 1 850.2 872.0 916.7 900.6 638.8 660.3 684.3 321.3 339.0 332.9 665.8 712.0 756.1 341.8 370.3 362.2 211.1 223.8 232.7 106.4 117.5 110.4 328.4 352.9 379.9 169.7 183.2 181.9 126.4 135.3 143.6 65.7 69.6 69.9 -27.7 -26.9 -28.6 -4.7 -22.2 -5.4 3 009.5 3 134.2 3 262.1 1 530.4 1 603.8 1 590.4 244.5 257.7 270.3 136.3 121.4 141.9 1 529.6 1 609.5 1 700.7 796.3 813.1 838.2 1 285.1 1 351.8 1 430.4 660.1 691.7 696.3 |

| Consumption expenditure | 3.6 | 3.3 | 3.5 | 3.2 | 3.4 | 3.4 | 3.6 |
|---------------------------------|-----|-----|-----|-----|-----|-----|-----|
| Private households ² | 3.5 | 3.2 | 3.4 | 3.1 | 3.4 | 3.3 | 3.6 |
| Government | 3.8 | 3.4 | 3.6 | 3.5 | 3.2 | 3.6 | 3.6 |
| Gross fixed capital formation | 5.7 | 6.9 | 6.2 | 6.9 | 7.0 | 6.0 | 6.4 |
| Machinery and equipment | 2.5 | 6.1 | 4.0 | 5.8 | 6.3 | 3.8 | 4.1 |
| Construction | 7.8 | 7.5 | 7.6 | 7.4 | 7.5 | 7.2 | 8.1 |
| Other products | 5.6 | 7.0 | 6.1 | 7.1 | 6.9 | 6.4 | 5.8 |
| Domestic expenditure | 4.0 | 4.1 | 4.1 | 4.0 | 4.2 | 3.9 | 4.2 |
| Exports | 5.5 | 5.2 | 5.7 | 4.8 | 5.6 | 5.3 | 6.1 |
| Imports | 7.1 | 5.2 | 5.8 | 4.5 | 5.8 | 5.5 | 6.1 |
| Gross domestic product | 3.5 | 4.2 | 4.1 | 4.2 | 4.2 | 3.9 | 4.3 |

3. Use of gross domestic product, price-adjusted (chain-linked, 2010=100)

| _u/ _o | | | | | | | |
|---------------------------------|---------|---------|---------|---------|---------|---------|---------|
| Consumption expenditure | 2 155.4 | 2 192.8 | 2 229.2 | 1 076.1 | 1 116.6 | 1 092.9 | 1 136.3 |
| Private households ² | 1 593.7 | 1 621.2 | 1 647.5 | 793.6 | 827.6 | 805.5 | 842.1 |
| Government | 561.3 | 571.1 | 581.3 | 282.2 | 288.9 | 287.1 | 294.1 |
| Gross fixed capital formation | 593.7 | 621.8 | 647.1 | 299.3 | 322.5 | 310.9 | 336.3 |
| Machinery and equipment | 204.1 | 215.0 | 222.3 | 101.8 | 113.2 | 105.0 | 117.3 |
| Construction | 275.8 | 287.1 | 299.7 | 139.0 | 148.1 | 144.5 | 155.2 |
| Other products | 114.2 | 120.2 | 125.6 | 58.6 | 61.6 | 61.4 | 64.2 |
| Domestic expenditure | 2 713.9 | 2 780.4 | 2 841.3 | 1 369.9 | 1 410.5 | 1 397.9 | 1 443.4 |
| Exports | 1 449.8 | 1 521.1 | 1 593.2 | 754.0 | 767.1 | 786.9 | 806.3 |
| Imports | 1 253.4 | 1 327.9 | 1 400.2 | 648.3 | 679.5 | 681.9 | 718.3 |
| Gross domestic product | 2 911.1 | 2 976.1 | 3 038.7 | 1 476.0 | 1 500.1 | 1 504.1 | 1 534.5 |

| b) Change are the come nation of the preceding record in 0/ | |
|---|---|
| | b) Change over the same period of the preceding year in % |

| Consumption expenditure | 1.7 | 1.7 | 1.7 | 1.7 | 1.8 | 1.6 | 1.8 |
|---------------------------------|-----|-----|-----|-----|-----|-----|-----|
| Private households ² | 1.7 | 1.7 | 1.6 | 1.6 | 1.8 | 1.5 | 1.7 |
| Government | 1.6 | 1.7 | 1.8 | 1.8 | 1.7 | 1.7 | 1.8 |
| Gross fixed capital formation | 3.7 | 4.7 | 4.1 | 4.7 | 4.8 | 3.9 | 4.3 |
| Machinery and equipment | 2.3 | 5.3 | 3.4 | 5.2 | 5.4 | 3.2 | 3.6 |
| Construction | 4.5 | 4.1 | 4.4 | 4.0 | 4.2 | 3.9 | 4.8 |
| Other products | 4.3 | 5.3 | 4.4 | 5.4 | 5.2 | 4.7 | 4.2 |
| Domestic expenditure | 2.1 | 2.5 | 2.2 | 2.4 | 2.5 | 2.0 | 2.3 |
| Exports | 3.9 | 4.9 | 4.7 | 4.9 | 5.0 | 4.4 | 5.1 |
| Imports | 4.7 | 5.9 | 5.4 | 6.1 | 5.8 | 5.2 | 5.7 |
| Gross domestic product | 2.0 | 2.2 | 2.1 | 2.2 | 2.3 | 1.9 | 2.3 |



| National Accounts (cont.) Forecast period: 2016 to 2018 | - | | | | | | | | | |
|--|-------------------------------|----------------|------------|---------|---------------|---------------|---------|--|--|--|
| | 2017 | 2018 | 2019 | 20 | | | 19 | | | |
| | | | | H1 | H2 | H1 | H2 | | | |
| 4. Deflators (2010=100) Change on the same period of the preceding year in % | | | | | | | | | | |
| Private consumption ² | 1.7 | 1.5 | 1.8 | 1.4 | 1.6 | 1.8 | 1.8 | | | |
| Government consumption | 2.1 | 1.6 | 1.8 | 1.7 | 1.5 | 1.8 | 1.8 | | | |
| Gross fixed capital formation | 1.9 | 2.1 | 2.0 | 2.1 | 2.1 | 2.1 | 2.0 | | | |
| Machinery and equipment | 0.3 | 0.7 | 0.5 | 0.6 | 0.8 | 0.6 | 0.5 | | | |
| Construction | 3.2 | 3.2 | 3.1 | 3.3 | 3.1 | 3.1 | 3.1 | | | |
| Exports | 1.5 | 0.3 | 0.9 | 0.0 | 0.6 | 0.9 | 0.9 | | | |
| Imports | 2.3 | - 0.7 | 0.4 | - 1.5 | 0.0 | 0.3 | 0.4 | | | |
| Gross domestic product | 1.5 | 2.0 | 2.0 | 2.0 | 1.9 | 2.0 | 2.0 | | | |
| 5. National income | 5. National income a) EUR bn. | | | | | | | | | |
| Primary income of private households ² | 2 259.0 | 2 342.9 | 2 431.1 | 1 156.2 | 1 186.7 | 1 196.8 | 1 234.4 | | | |
| Employers social contributions | 299.1 | 309.2 | 319.5 | 149.8 | 159.3 | 154.5 | 165.0 | | | |
| Gross wages and salaries | 1 367.7 | 1 429.6 | 1 492.5 | 682.4 | 747.3 | 710.2 | 782.3 | | | |
| Other primary income ⁴ | 592.2 | 604.1 | 619.2 | 324.0 | 280.1 | 332.1 | 287.1 | | | |
| Primary income of other sectors | 479.7 | 515.2 | 548.0 | 237.2 | 278.0 | 252.5 | 295.4 | | | |
| Net national income | 2 738.7 | 2 858.1 | 2 979.1 | 1 393.4 | 1 464.7 | 1 449.3 | 1 529.8 | | | |
| Consumption of fixed capital | 570.4 | 589.3 | 609.3 | 292.8 | 296.5 | 302.8 | 306.5 | | | |
| Gross national income | 3 309.1 | 3 447.4 | 3 588.4 | 1 686.2 | 1 761.2 | 1 752.1 | 1 836.3 | | | |
| memorandum item: | | | | | | | | | | |
| Net national income (factor costs) | 2 422.3 | 2 534.6 | 2 647.3 | 1 232.0 | 1 302.6 | 1 283.9 | 1 363.4 | | | |
| Property and entrepreneurial income | 755.5 | 795.8 | 835.3 | 399.8 | 395.9 | 419.2 | 416.1 | | | |
| Compensation of employees | 1 666.8 | 1 738.8 | 1 811.9 | 832.2 | 906.6 | 864.7 | 947.3 | | | |
| b) Change over the same period of the preceding year in | 2 % | | | | | | | | | |
| Primary income of private households ² | 3.8 | 3.7 | 3.8 | 3.7 | 3.7 | 3.5 | 4.0 | | | |
| Employers social contributions | 3.5 | 3.4 | 3.3 | 3.4 | 3.7 | 3.1 | 3.6 | | | |
| Gross wages and salaries | 4.3 | 4.5 | 3.3 4.4 | 4.6 | 3.3 4.5 | 4.1 | 4.7 | | | |
| per employee | 2.5 | 3.1 | 3.1 | 3.1 | 3.1 | 2.8 | 3.5 | | | |
| Other primary income ⁴ | 2.3 | 2.0 | 2.5 | 2.0 | 2.0 | 2.5 | 2.5 | | | |
| Primary income of other sectors | 2.5 | 7.4 | 6.4 | 7.9 | 7.0 | 6.5 | 6.3 | | | |
| Net national income | 3.5 | 4.4 | 4.2 | 4.4 | 4.3 | 4.0 | 4.4 | | | |
| Consumption of fixed capital | 3.3 | 3.3 | 3.4 | 3.3 | 3.3 | 3.4 | 3.4 | | | |
| Gross national income | 3.5 | 4.2 | 4.1 | 4.2 | 4.2 | 3.9 | 4.3 | | | |
| memorandum item: | | | | | | | | | | |
| Net national income (factor costs) | 3.6 | 4.6 | 4.4 | 4.7 | 4.6 | 4.2 | 4.7 | | | |
| Property and entrepreneurial income | 2.4 | 5.3 | 5.0 | 5.3 | 5.3 | 4.9 | 5.1 | | | |
| Compensation of employees | 4.2 | 4.3 | 4.2 | 4.4 | 4.3 | 3.9 | 4.5 | | | |
| 6. Disposable income of private households ² | | | | | | | | | | |
| a) EUR bn. | 1 250 7 | 1 404 0 | 1 450 0 | 675.7 | 720.2 | 700.0 | 750.7 | | | |
| Mass income | 1 350.7 | 1 404.9 | 1 459.9 | 675.7 | 729.3 | 700.2 | 759.7 | | | |
| Net wages and salaries Social benefits other than social transfers in kind | 904.5 | 944.9 | 983.2 | 446.3 | 498.6 | 462.9 | 520.3 | | | |
| | 565.9 119.6 | 582.6 122.5 | 602.9 | 290.4 | 292.2 61.5 | 300.1 62.7 | 302.8 | | | |
| less: Levies on social benefits, taxes on consumption | 119.6 | 122.5 | 126.2 | 61.0 | 61.5 | 02.7 | 63.4 | | | |
| Other primary income 4 | 592.2 | 604.1 | 619.2 | 324.0 | 280.1 | 332.1 | 287.1 | | | |
| Other transfers received (net) 5 | - 76.3 | - 80.1 | - 83.9 | - 40.4 | - 39.7 | - 42.6 | - 41.3 | | | |
| Disposable income | 1 866.6 | 1 928.9 | 1 995.1 | 959.2 | 969.7 | 989.6 | 1 005.5 | | | |
| Change in pension entitlements | 49.4 | 49.7 | 49.9 | 24.6 | 25.1 | 24.7 | 25.2 | | | |
| | | | | | | | | | | |
| Consumption expenditure | 1 732.5 | 1 788.7 | 1 850.2 | 872.0 | 916.7 | 900.6 | 949.6 | | | |
| Saving | 183.5 | 189.9 | 194.8 | 111.8 | 78.1 | 113.7 | 81.1 | | | |
| Saving ratio (%) ⁶ | 9.6 | 9.6 | 9.5 | 11.4 | 7.9 | 11.2 | 7.9 | | | |
| b) Change over the same period of the preceding year in | | | | | | | | | | |
| Mass income | 4.0 | 4.0 | 3.9 | 4.0 | 4.0 | 3.6 | 4.2 | | | |
| Net wages and salaries | 4.1 | 4.5 | 4.1 | 4.5 | 4.4 | 3.7 | 4.3 | | | |
| Social benefits other than social transfers in kind | 3.8 | 3.0 | 3.5 | 2.8 | 3.1 | 3.3 | 3.6 | | | |
| less: Levies on social benefits, | 4.2 | 2.4 | 3.0 | 2.3 | 2.6 | 2.8 | 3.1 | | | |
| taxes on consumption | | | | | | | | | | |
| Other primary income 4 | 2.7 | 2.0 | 2.5 | 2.0 | 2.0 | 2.5 | 2.5 | | | |
| Disposable income | 3.4 | 3.3 | 3.4 | 3.3 | 3.4 | 3.2 | 3.7 | | | |
| Consumption expenditure | 3.5 | 3.2 | 3.4 | 3.1 | 3.4 | 3.3 | 3.6 | | | |
| Saving | 2.1 | 3.5 | 2.6 | 4.3 | 2.4 | 1.7 | 3.8 | | | |
| • | • | | | | | | | | | |



| Forecast period: 2016 to 2018 | | | | | | | |
|---|--------------|---------|---------|--------|-------|-------|-------|
| | 2017 | 2018 | 2019 | 201 | | 201 | - |
| | 2017 | 2010 | 2010 | H1 | H2 | H1 | H2 |
| 7. Revenue and expenditure by general governme | n t 7 | | | | | | |
| a) EUR bn. | iii. | | | | | | |
| Revenue | | | | | | | |
| Taxes | 763.7 | 793.6 | 826.5 | 398.7 | 394.8 | 414.8 | 411.7 |
| Social contributions | 547.0 | 568.9 | 591.8 | 276.0 | 292.9 | 286.3 | 305.5 |
| Property income | 16.0 | 16.7 | 16.5 | 8.6 | 8.2 | 8.5 | 8.0 |
| Other current transfers | 21.3 | 21.6 | 22.1 | 10.1 | 11.5 | 10.4 | 11.7 |
| Capital transfers | 10.3 | 9.7 | 9.2 | 4.3 | 5.4 | 4.0 | 5.2 |
| Sales | 107.9 | 111.0 | 115.3 | 52.7 | 58.4 | 54.7 | 60.5 |
| Other subsidies | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| Total | 1 466.4 | 1 521.7 | 1 581.5 | 750.5 | 771.2 | 778.7 | 802.8 |
| lotai | 1 400.4 | 1 321.7 | 1 301.3 | 730.3 | 111.2 | 110.1 | 002.0 |
| Expenditure | | | | | | | |
| Intermediate consumption ⁸ | 435.6 | 451.7 | 469.8 | 218.8 | 232.9 | 227.5 | 242.3 |
| Compensation of employees | 244.0 | 250.6 | 258.7 | 120.3 | 130.3 | 124.0 | 134.6 |
| Property income (interest) | 39.1 | 37.7 | 37.6 | 18.8 | 18.8 | 18.7 | 18.8 |
| Subsidies | 28.8 | 30.2 | 31.7 | 14.6 | 15.7 | 15.3 | 16.4 |
| Social benefits | 506.6 | 522.2 | 541.3 | 260.6 | 261.6 | 269.6 | 271.7 |
| Other current transfers | 76.1 | 86.6 | 87.7 | 45.5 | 41.1 | 41.3 | 46.4 |
| Capital transfers | 41.4 | 35.3 | 35.7 | 14.2 | 21.1 | 14.4 | 21.3 |
| Gross capital formation | 70.1 | 74.2 | 78.6 | 32.0 | 42.3 | 33.6 | 45.1 |
| Net acquisitions of non-produced non-financial assets | - 1.4 | - 1.4 | - 1.4 | - 0.6 | - 0.8 | - 0.6 | - 0.8 |
| Total | 1 440.4 | 1 487.2 | 1 539.7 | 724.1 | 763.1 | 743.9 | 795.8 |
| | | | | | | | |
| Net lending | 26.0 | 34.6 | 41.8 | 26.4 | 8.1 | 34.8 | 7.0 |
| b) Change over the same period of the preceding year in | % | | | | | | |
| Revenue | 70 | | | I | | | |
| Taxes | 4.3 | 3.9 | 4.2 | 3.8 | 4.0 | 4.0 | 4.3 |
| Social contributions | 4.4 | 4.0 | 4.0 | 4.0 | 4.0 | 3.7 | 4.3 |
| Property income | - 11.3 | 4.6 | - 1.5 | 11.4 | - 1.6 | - 1.4 | - 1.6 |
| Other current transfers | 7.1 | 1.3 | 2.5 | 0.0 | 2.5 | 2.5 | 2.5 |
| Capital transfers | - 33.4 | - 5.8 | - 5.5 | - 6.9 | - 4.8 | - 6.6 | - 4.6 |
| Sales | 2.8 | 3.0 | 3.8 | 2.0 | 3.8 | 3.9 | 3.7 |
| Other subsidies | 5.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | 3.7 | 3.8 | 3.9 | 3.7 | 3.8 | 3.8 | 4.1 |
| | | | | | | | |
| Expenditure | | | | | | | |
| Intermediate consumption ⁸ | 4.0 | 3.7 | 4.0 | 3.6 | 3.7 | 4.0 | 4.0 |
| Compensation of employees | 3.2 | 2.7 | 3.2 | 2.6 | 2.8 | 3.2 | 3.3 |
| Property income (interest) | - 6.1 | - 3.6 | - 0.3 | - 4.1 | - 3.1 | - 0.5 | 0.0 |
| Subsidies | 3.7 | 4.9 | 4.9 | 4.8 | 4.9 | 4.8 | 4.9 |
| Social benefits | 4.2 | 3.1 | 3.7 | 2.9 | 3.3 | 3.5 | 3.8 |
| Other current transfers | 0.5 | 13.8 | 1.3 | 10.9 | 17.1 | - 9.1 | 12.8 |
| Capital transfers | 13.9 | - 14.7 | 1.1 | - 29.7 | - 0.5 | 1.4 | 0.9 |
| Gross capital formation | 4.9 | 5.9 | 5.9 | 7.5 | 4.7 | 4.9 | 6.6 |
| Not appreciations of non-produced non-financial accets | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

4.3

3.7

0.0

3.2

0.0

3.5

0.0

2.6

0.0

3.8

0.0

2.7

0.0

4.3

Net acquisitions of non-produced non-financial assets

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

Price-adjusted gross domestic product per hour worked.

² Incl. nonprofit institutions serving households.

 $^{^{\}mbox{\tiny 3}}$ Incl. acquisitions less disposals of valuables.

⁴ Operating surplus/mixed income, net property income

⁵ Received less payed other current transfers.

^e 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.