



# REPORT ON THE SLOVAK ECONOMY

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#### **A**BBREVIATIONS

CPI consumer price index

EA euro area

ECB European Central Bank
EC European Commission
EMEs emerging market economies
EONIA euro overnight index average
ESA 2010 European System of Accounts 2010

ESI Economic Sentiment Indicator (European Commission)

EU European Union

EUR euro

EURIBOR euro interbank offered rate

Eurostat statistical office of the European Union

FDI foreign direct investment GDP gross domestic product

GNDI gross national disposable income

GNI gross national income

HICP Harmonised Index of Consumer Prices

IMF International Monetary Fund
MFI monetary financial institutions

MF SR Ministry of Finance of the Slovak Republic

MMF money market fund

MTF NBS's Medium-Term Forecast (published on a quarterly basis)

NACE Statistical Classification of Economic Activities in the European Community (Rev. 2)

NARKS National Association of Real Estate Offices of Slovakia

NBS Národná banka Slovenska
NEER nominal effective exchange rate
NFC non-financial corporation

NPISHs non-profit institutions serving households

OECD Organisation for Economic Co-operation and Development

p.a. per annum p.p. percentage point

PMI Purchasing Managers' Index REER real effective exchange rate

SASS Slovenská asociácia správcovských spoločností – Slovak Association of Asset

**Management Companies** 

SME small and medium-sized enterprise
SO SR Statistical Office of the Slovak Republic

ULC unit labour costs

ÚPSVR Ústredie práce, sociálnych vecí a rodiny – Central Office of Labour, Social Affairs and

Family

ÚRSO Úrad pre reguláciu sieťových odvetví – Regulatory Office for Network Industries

USD US dollar VAT value-added tax

#### Symbols used in the tables

- . Data are not yet available.
- Data do not exist / data are not applicable.
- (p) Preliminary data





#### 1 SUMMARY

In the third quarter of 2017, the Slovak economy maintained its growth dynamics from the first half of the year. It continued to grow quarter on quarter by 0.8% (compared with 0.9% in the second quarter), representing an annual growth rate of 3.4%. The main driver of economic growth was domestic demand, reflecting the improving labour market situation. The third quarter saw an upturn in investment activity, following a decline in the previous quarter.

Employment grew, quarter on quarter, at the same pace in the third quarter of 2017 as in the previous quarter, by 0.6%. The annual rate

of growth accelerated to 2.3%. Employment growth was stimulated by all the key segments of the private sector. The average wage in the economy increased by 5.2% year on year, up from 4.8% in the second quarter. This increase was caused by accelerated wage growth in the public sector and in education.

After stagnating in the second quarter, annual HICP inflation rose to 1.6% in the third quarter of 2017. Increases were recorded in all of its basic components. The strongest dynamics were shown by processed food and energy prices.



#### **2** Gross domestic product

The Slovak economy expanded in the third quarter of 2017 by 0.8% quarter on quarter (compared with 0.9% in the second quarter), representing an annual growth rate of 3.4% (3.7% in the second quarter). Households did not cut back their spending on consumer goods in the quarter under review: their consumption achieved the strongest growth seen in the post-crisis period. After declining in the second quarter, investment and exports continued to grow, too. This growth generated stronger than expected demand for imports. Investment demand for specialised technologies in particular (mainly for the automotive industry and intelligent buildings) was satisfied from imports, rather than from do-

Chart 1 GDP and its components (quarteron-quarter percentage changes; percentage point contributions; constant prices)

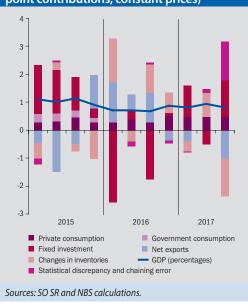
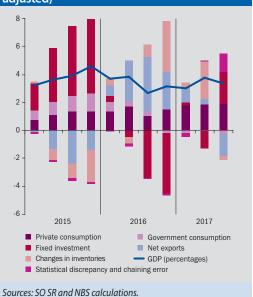


Chart 2 GDP and its components (annual percentage changes; percentage point contributions, constant prices; non-seasonally adjusted)



mestic sources. Although these imports were not fully reflected in the rate of economic growth in the quarter under review, they provided impetus to further growth in the Slovak economy and employment, especially in sectors linked to the automotive industry.

Improvements were recorded in private services and trade as a result of strong household consumption and growing lending to households, wishing to buy or build a new home and thus creating value added in the real estate sector (within 'private services'). Although sales growth in construction enjoyed a revival stimulated by

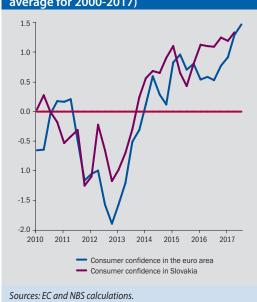
Table 1 GDP by expenditure (percentage changes from previous period; constant prices)										
	2016 20				2017	)17				
	Q1	Q2	Q3	Q4	Q1-Q4	Q1	Q2	Q3		
Gross domestic product	0.7	0.7	0.7	0.9	3.3	0.8	0.9	0.8		
Final consumption of households and non-profit institutions	0.6	0.8	0.5	1.0	2.7	0.9	0.9	1.0		
Final consumption of general government	0.1	-0.1	0.0	-0.6	1.6	-0.1	0.0	-0.2		
Gross fixed capital formation	-10.2	1.5	-7.7	0.6	-8.3	5.4	-2.3	6.2		
Exports of goods and services	0.5	5.7	-1.8	3.3	6.2	0.8	-2.5	2.2		
Imports of goods and services	-1.0	5.5	-3.1	3.9	3.7	1.2	-2.7	3.4		
Source: SO SR.										



Chart 3 GDP – sectoral contributions to annual changes (percentage points; constant prices; non-seasonally adjusted)



Chart 4 Consumer confidence in the euro area and Slovakia (deviations from the average for 2000-2017)

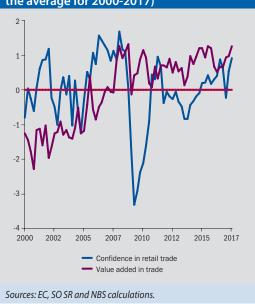


residential investments, value added in this sector (expressed in terms of wages, profits and write-offs) remained virtually unchanged in the quarter under review. Value added in export-oriented manufacturing had been decreasing since the beginning of the year, reflecting the slower pace of export growth recorded in that period.

Investment growth in the third quarter was significantly boosted by lending to potential home buyers. New investors also contributed to this growth: they helped to offset the impact of unjustifiably weak investment demand from the first half of 2017. Thus, private investment grew over the first three quarters by 4.2% year on year in real terms. In the third quarter, investment activity also increased in public administration. With transport infrastructure, health care and other segments of the public sector taken into account, however, public investment remained in negative territory in the first three quarters (falling in real terms by almost 12% year on year). Overall fixed investment increased by 3.7% year on year.

The contribution of private consumption to economic growth in the third quarter was stronger than at any other time in the post-crisis period. Private consumption rose quarter on quarter by 1% (compared with 0.9% in the second quarter). The growing trend in private consumption was reinforced by elevated consumer confidence, which





well exceeded its long-term average<sup>1</sup> and reached a ten-year high in the quarter under review.

Confidence in services had been below its longterm average since the second half of 2011. Confidence in retail trade, however, exceeded its long-term average at the beginning of 2015. With the fall recorded in the first quarter of 2017

<sup>1</sup> The deviation from the long-term average was calculated using the Z-score approach. A Z-score is a measure of a variable's deviation from its long-term average, expressed as the variable's standard deviation.



left out of account, confidence in this segment followed a trend similar to that seen in consumer confidence. The improving confidence in retail trade, coupled with elevated consumer confidence, has created conditions for favourable year-end results this year.

Ambiguous signals are coming from data on confidence in construction and manufacturing in regard to value added creation in these sectors. Value added in construction exceeded its long-term average in 2008, while confidence in construction did so as late as the end of 2014.

Since the second half of 2016, confidence in construction has been above the level of value added. This has created conditions for favourable developments in construction, which is expected to boost GDP growth until the end of 2017.

A different trend can be observed in manufacturing. Value added has been above its long-term average since the second half of 2011, with confidence in manufacturing hovering around its average level. Weaker confidence may cause a decrease in value added, which may weaken the contribution of manufacturing to GDP growth.

Chart 6 Confidence in construction and value added in construction (deviations from the average for 2000 -2017)

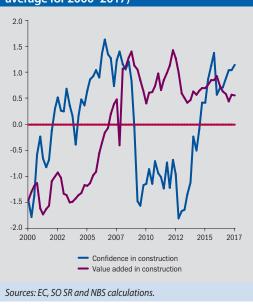
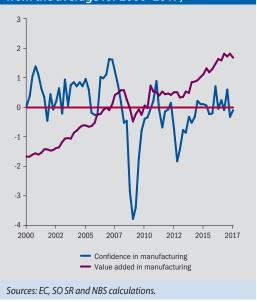


Chart 7 Confidence in manufacturing and value added in manufacturing (deviations from the average for 2000 -2017)



#### Box 1

## SLOVAKIA'S CURRENT SLOWER GROWTH COMPARED WITH THE OTHER V4 COUNTRIES HAS FROM A LONGER-TERM PERSPECTIVE ONLY REDUCED ITS RELATIVE LEAD

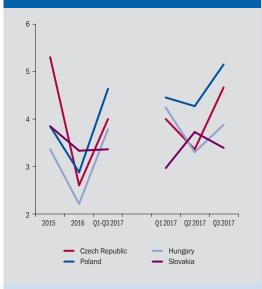
Slovakia is currently losing its lead over the other Visegrad Four (V4) countries in terms of economic growth. Economic growth in Poland, the Czech Republic, and Hungary accelerated strongly in the first three quarters of 2017 and thus the lead of Slovakia has diminished to a certain extent. Slovakia's GDP

growth has stabilised this year, but in terms of added value, it has come to a halt. The added value indicates that economic activity has fallen more sharply than GDP; Slovakia's GDP is boosted by taxes on products (VAT less subsidies) more significantly than in the neighbouring countries.<sup>2</sup>

2 Except Poland, where taxes are increased in line with the rise in economic activity. Apart from net taxes (data from administrative sources), the composition of economic growth in the first three quarters of 2017 was also different in Slovakia. It mirrored both the composition of growth in the neighbouring countries and that of expenditure items (fixed investment, exports, private consumption).

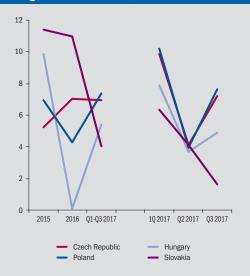


#### **Chart A GDP (annual percentage changes)**



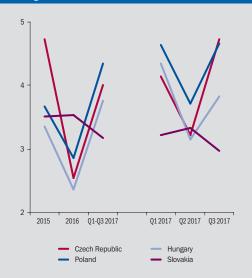
Sources: Eurostat and NBS calculations.

## Chart C Manufacturing (annual percentage changes in value added)



Sources: Eurostat and NBS calculations.

## Chart B Value added (annual percentage changes)



Sources: Eurostat and NBS calculations.

The weakening of Slovakia's economic position is attributable largely to developments in manufacturing. After reaching two-digit figures in the previous three years (2014-2016), the pace of value added growth has slowed somewhat this year, but manufacturing production has from a longer-term perspective retained its solid lead.

## Chart D Construction (annual percentage changes in value added)



Sources: Eurostat and NBS calculations.

By contrast, Slovakia lags behind its neighbours in private services, trade and construction from a longer-term perspective. Value added growth in trade and private services has accelerated this year, but not enough to offset the country's lag in these areas. Trade is on the upturn this year as a result of growth in private consumption, which, however, still

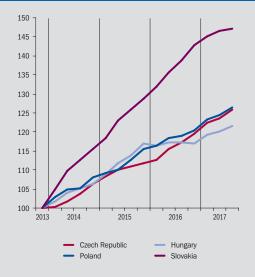


lags behind the rate of growth in the other V4 countries.

The situation in construction is less favourable: this sector has not yet recovered enough to recoup it losses. Slovakia is the only V4

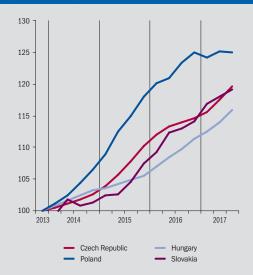
country in which construction remained in negative territory in the first three quarters of 2017. The other V4 countries recorded a revival in this sector. This is also reflected in the weakening fixed investment growth in Slovakia.

## Chart E Value added in manufacturing (2013 = 100)



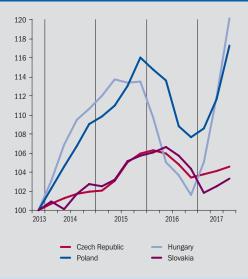
Sources: Eurostat and NBS calculations.

## Chart G Value added in private services (2013 = 100)



Sources: Eurostat and NBS calculations.

## Chart F Value added in construction (2013 = 100)



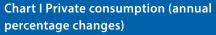
Sources: Eurostat and NBS calculations. Sources:

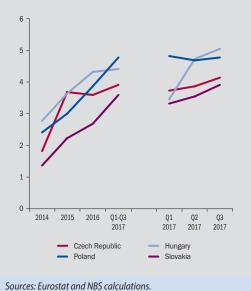
#### Chart H Value added in trade (2013 = 100)



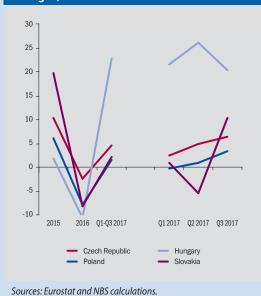
Sources: Eurostat and NBS calculations.







## Chart J Fixed investment (annual percentage changes)



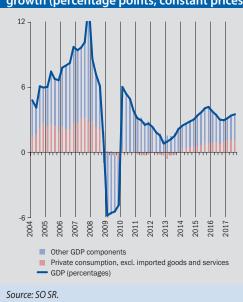
#### Box 2

## PRIVATE CONSUMPTION, COUPLED WITH HOUSEHOLDS' WEAKENING PROPENSITY TO SAVE, HAS REMAINED THE MAIN DRIVER OF ECONOMIC GROWTH

Since the end of 2016, private consumption (net of imported consumption) has been generating almost 40% of the Slovak economic

growth, which represents its most significant contribution recorded in the post-crisis period. Private consumption is currently the main fac-

Chart A Contribution of private consumption from domestic sources to annual GDP growth (percentage points; constant prices)



# Chart B Saving ratio, income and consumption of households (annual percentage changes)

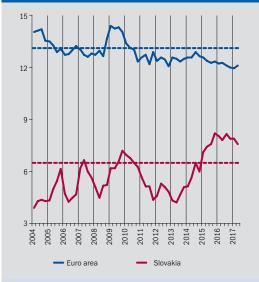




tor in economic growth throughout the euro area. **Households' weakening propensity to save** has contributed to consumption growth in both Slovakia and the euro area as a whole.

Households' propensity to save weakened at a time when consumer confidence was strengthening. It exceeded its long-term average level at the end of 2013 in both Slovakia and the euro area as a whole. Subsequently, an average household in the euro area needed one year to overcome the tendency to save more and more (households' propensity to consume moderated at the turn of 2014/2015); an average household in Slovakia needed two years (the sharply rising trend in the saving ratio came to a halt at the beginning of 2016).<sup>3</sup>

#### Chart C Household saving ratio (percentages)



Sources: Eurostat and NBS calculations.

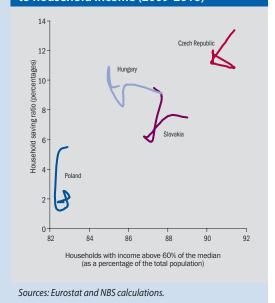
The same change in the saving ratios in Slovakia and the euro area as a whole points to different conclusions from a longer-term perspective. The saving ratio in the euro area is still below its long-term average, while that in Slovakia exceeds both its long-term average and the level recorded during the crisis. Looking at the ratios under comparison, we may assume that the rising saving ratio in Slovakia is a consequence of convergence towards the euro area.

Convergence itself is not necessarily a factor causing a rise in the saving ratio in the medium term. With economic convergence, households' disposable income converges too, but the saving ratio may remain a 'national feature', because it is influenced by numerous conflicting factors with various intensity as

## Chart D Consumer confidence (balance of responses)



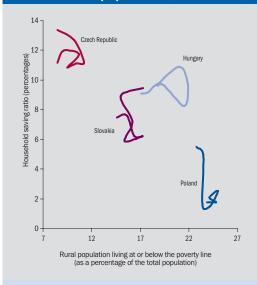
## Chart E Household saving ratio in relation to household income (2009-2016)



3 The saving ratio rose only slightly in 2016. The year-on-year increase in savings can almost fully be attributed to households' growing loan principal repayments owing to heightened households' indebtedness. More detailed information is available in the 'Report on the Slovak Economy, March 2017, Box 1' https://www.nbs.sk/\_img/Documents/\_Publikacie/SESR/2017/ protected/SESR\_0317sk.pdf



## Chart F Saving ratio in relation to the structure of the population ( 2009 – 2016)



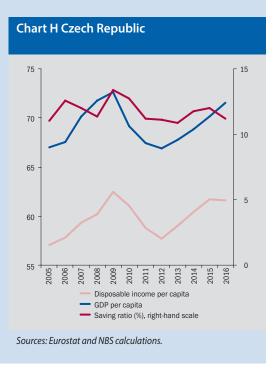
Sources: Eurostat and NBS calculations.

regards the income and demographic differentiation of households, wealth, investment methods, fixed asset ownership, social systems, customs, etc. The highest saving ratio is recorded in the Czech Republic, which boasts the highest share of households with an income above 60% of the EU median among the V4 countries. Poland with the highest share of rural population living at or below the poverty line has the lowest saving ratio.

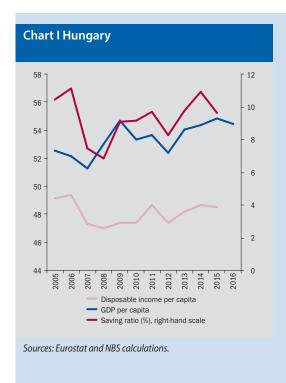
The above (and other) slowly changing features of households explain why the long-term correlation between the real economy's convergence and the saving ratio is low. While the real economies of V4 countries converge gradually, the saving ratio (after falling in the 1990s) fluctuates around the 'national' level or continues to fall (in Poland).

Convergence of per capita GDP and income (index: purchasing power parity; Germany = 100) and developments in the household saving ratio (percentages)

#### 

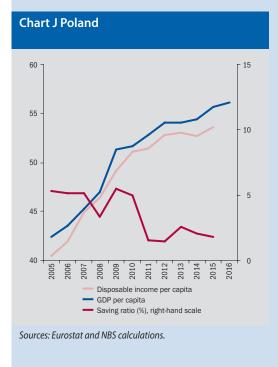


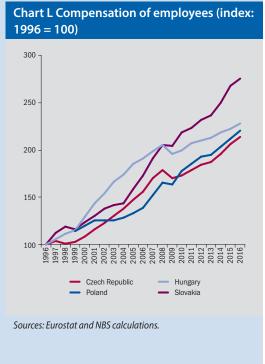






Sources: Eurostat and NBS calculations.



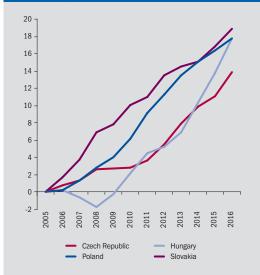




In the case of Slovakia, economic developments in 2014-2015 represented an exception. The saving ratio rose abruptly in that period as a result of a reduction in energy prices, supported by households' real disposable income and the favourable labour market situation. A marked increase (compared with the other V4 countries) was recorded in the compensation of employees, as well as in the disposable income of households. At the same time, the structure of employees changed in favour of groups with higher motivation to save. The labour force participation rate rose most significantly in the 55-64 age cohort (persons motivated to save for retirement) and among old-age pensioners (in order to increase their savings from two sources labour market and pensions).

#### Chart M Employment rate in the 55-64 age cohort (percentage point changes compared with 2005)

The rate of convergence of the real economy does not necessarily determine the rate of convergence of the saving ratio. In the medium term, the saving ratio in Slovakia will be determined by conflicting factors, which appear to be balanced for the time being.

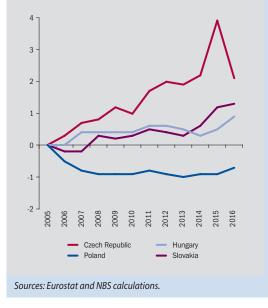


The saving ratio is influenced primarily by the gradual strengthening of cyclical expansion and the smoothing of consumption over time. In the expansive phase of the cycle, consumption is usually below the level that could be maintained from the disposable income of households, part of which is used for saving (during bad times, savings are also used for consumption, i.e. to maintain consumption at a certain level). This effect will be strengthened by administrative measures (13th and 14th salaries, bonuses, fiscal stimuli to wage growth in the public sector in the year preceding the elections, and their possible spillover into the private sector). A rise in the saving ratio may also be caused by the continuing rapid growth in the indebtedness of households; this factor is, however, moderated by macroprudential policy measures.

Sources: Furostat and NRS calculations

The saving ratio is expected to come under downward pressure from the fading impact of low oil prices, which previously caused a temfunds in the form of wages and bonuses.

#### Chart N Employment rate in the 65+ age cohort (percentage point changes compared with 2005)





### **3** THE LABOUR MARKET

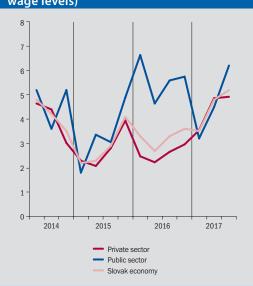
#### 3.1 WAGES AND LABOUR PRODUCTIVITY

The average wage level in the economy rose in the third quarter of 2017 by 5.2% year on year, up from 4.8% in the previous quarter. This rise was a result of accelerated wage growth in the public sector and in education. The pace of wage growth in these sectors (including health care) accelerated from 4.5% in the second quarter to 6.2% in the third quarter. This was due to a negotiated rise of 6% in teachers' basic salaries, a pay increase of 2% in public administration, and irregular bonus payments. On the other hand, the average wage in the private sector rose to the same extent as in the second guarter (by 4.9%), representing the strongest wage growth in the post-crisis period. Even faster wage growth, i.e. 5.6%, was recorded in larger firms (with 20 or more employees). Apart from wages in the public sector, the average wage growth was supported by wage increases in manufacturing (5.3%), trade (6%), transport (7.1%), and professional activities (8%). Real wages grew at a relatively fast pace (3.6%) year on year. This growth, however, may be dampened by the gradually rising inflation.

One-off bonus payments in the private sector were relatively stable in the quarter under review: their amount per employee increased by 5.4% year on year. In line with expectations, the wage growth driven mostly by payments for days not worked in the second quarter (for public holidays during Easter) continued to be fuelled by wages for hours worked in the third quarter.

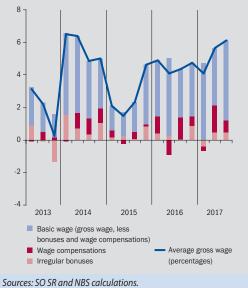
Compensation per employee continued to grow in the third quarter, by 5% year on year. This growth was supported by an increase in, or the cancellation of, the maximum basis of assessment for social and health insurance contributions, and by bonuses paid from profits. On the other hand, compensation per employee growth was dampened by lower payments classified as expenditure items (payments to persons working on the basis of a contract for work, members of boards of directors and supervisory boards, etc.) and by severance pays, which are not included in the average wage.





Sources: SO SR and NBS calculations. Note: Data for the public sector were calculated on the basis of developments in the categories O, P and Q of the NACE classification.

# Chart 9 Wage developments by component (annual percentage changes; percentage point contributions)



Note: The data for 'organisations with 20+ employees' include organisations in the public and financial sectors irrespective of the number of employees.



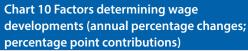
Table 2 Wages and labour productivity (annual percentage changes)									
	2016					2017			
	Q1	Q2	Q3	Q4	Q1-Q4	Q1	Q2	Q3	
Average wage (headline)	3.3	2.7	3.3	3.6	3.3	3.5	4.8	5.2	
Consumer-price inflation	-0.5	-0.7	-0.7	-0.1	-0.5	0.9	1.0	1.5	
Average real wage (headline)	3.8	3.4	4.0	3.7	3.8	2.6	3.8	3.6	
Average wage (ESA 2010)	3.1	2.2	2.7	3.7	3.0	2.6	3.7	4.6	
Compensation per employee (ESA 2010)	2.6	1.8	1.8	2.9	2.3	3.1	4.0	5.0	
Nominal labour productivity (ESA 2010)	0.9	1.0	-0.4	0.4	0.5	1.8	2.3	2.6	
Real labour productivity (ESA 2010)	1.4	1.5	0.2	0.6	0.9	0.9	1.6	1.0	

Sources: SO SR and NBS calculations.

Note: Average wages (headline) are based on data from SO SR statistical reports. Average real wages were calculated on the basis of CPI inflation. Labour productivity (ESA 2010) was calculated as the ratio of nominal GDP to employment as defined in the ESA 2010 methodology.

Despite its current acceleration (to 3% year on year), nominal labour productivity growth lags behind the growth in average wages and labour costs. The faster growth in labour costs may lead to a gradual acceleration in price inflation. As regards the main determinants

of wage growth, the major stimuli are still the perceived shortage of skilled labour and the slightly accelerated labour productivity growth. Another stimulus to wage growth in the near future will be moderately rising inflation.

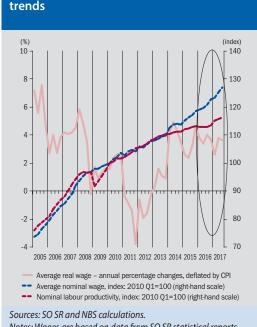




Source: NBS calculations based on a regression analysis.

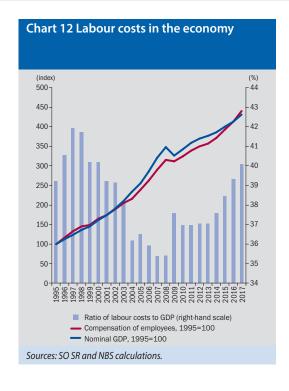
Note: The following variables have been transformed: fourquarter moving average of labour productivity; four-quarter
moving average of CPI inflation recorded three quarters earlier.
The figures for labour shortages are based on the European
Commission's business sentiment surveys, with the sectors
weighted by employment trends. The composition effect is given
by the impact of annual growth in employment. The data for
2017 Q4 are based on the MTF-2017Q4 forecast.

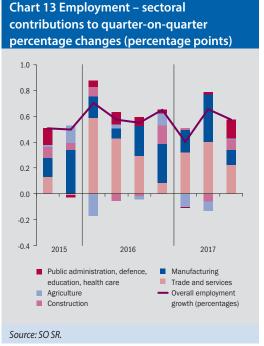
Chart 11 Wages and labour productivity trends



Notes: Wages are based on data from SO SR statistical reports. Nominal labour productivity was calculated from employment according to SO SR statistical reports. Base indices are based on seasonally adjusted data.







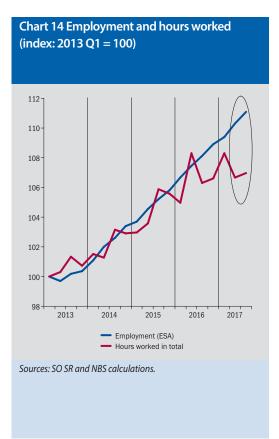
#### 3.2 EMPLOYMENT AND UNEMPLOYMENT

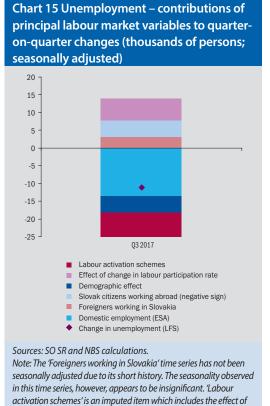
Annual employment growth in the third guarter of 2017 accelerated somewhat, to 2.3% (from 2.1% in the previous quarter). The quarterly rate of growth also remained relatively fast, at 0.6% (after seasonal adjustment). This growth was supported by all the key segments of the private sector. In manufacturing, employment rose in the key segments, especially in the automotive industry. Strong employment growth was also recorded in wood processing. In trade and services, employment increased considerably in the majority of segments. Employment also rose in public administration, partly as a result of new labour activation schemes launched in the public sector. The number of self-employed persons fell somewhat; this fall was offset by a marked increase in the number of employees.

The monthly leading indicators point to a further rapid increase in the number of job vacancies, despite employers reporting shortages of skilled labour, which may hamper the recruitment of new employees in the long term.

The number of hours worked tend to grow at a much slower pace than the number of employees. Specifically, the number of hours worked in the third guarter increased by 0.3% guarter on guarter, while that of employees rose by 0.7%. Since 2013, the number of employees had increased in cumulative terms by 4 percentage points more than the number of hours worked. This difference can be attributed largely to smaller firms (with less than 20 employees) and, to a lesser extent, to larger firms (with 20 or more employees). The difference in number between the hours worked and employment can be attributed to the shortage of skilled labour for full-time employment, the creation of more parttime jobs, and to the smaller number of hours assigned to part-time employees. In the case of smaller firms, however, the number of hours worked may be underestimated in relation to the number of employees. The smaller number of hours worked resulting from the ban on retail sales on public holidays could also contribute to the difference in number between the hours worked and employment, but no more than 0.2-0.3 percentage point in 2017.

#### CHAPTER 3





The number of unemployed (according to the Labour Force Survey) continued to decrease in the third quarter, to 11,100 (seasonally adjusted figure). The labour market situation was still influenced by the growing number of foreigners working in Slovakia, the falling number of Slovak citizens working abroad, and the rising labour participation rate. These effects were supported by favourable developments in the Slovak labour market in both demand and wages. In terms of size, they were at around the same level as in the

previous quarter. Unemployment fell considerably in quarter on quarter terms, owing mainly to an increase in the number of persons involved in labour activation schemes. The rate of unemployment dropped in the third quarter below 8% (from 8.4% in the second quarter).<sup>4</sup> The unemployment rate based on the total number of job seekers registered with the Central Office of Labour, Social Affairs and Family (ÚPSVR) decreased in the third quarter by 0.9 percentage point, to 7.8% (after seasonal adjustment).

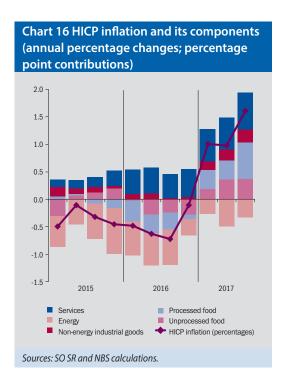
residual differences between the LFS and ESA methodologies.



#### **4** PRICE DEVELOPMENTS

After stabilising in the second quarter of 2017, the annual HICP inflation rate accelerated in the third quarter, to 1.6%. Steeper increases were recorded in all of its basic components, especially in energy and processed food prices (the prices of dairy products and fats in particular). The year-on-year fall in energy prices moderated in the third quarter of this year, owing mainly to the strong base effect of gas price reduction

from the third quarter of 2016. Consumer prices remained unchanged in the quarter under review. Gas and electricity prices, however, rose in the commodity market. This is likely to generate a further increase in gas and electricity prices for consumers at the beginning of 2018. The rise in services prices accelerated in year-on-year terms, in response to cost-push and demand-pull pressures.



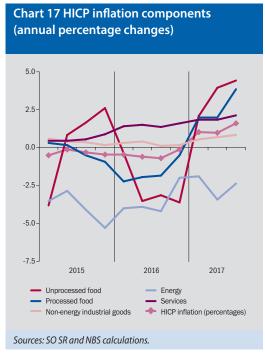


Table 3 Annual percentage changes in inflation by component											
			2016	2017							
	Q1	Q2	Q3	Q4	Q1-Q4	Q1	Q2	Q3			
HICP inflation	-0.5	-0.6	-0.7	-0.1	-0.5	1.0	1.0	1.6			
Unprocessed food	-0.4	-3.5	-3.1	-3.6	-2.7	2.1	4.0	4.4			
Processed food	-2.2	-1.9	-1.9	-0.5	-1.6	2.0	2.0	3.8			
Non-energy industrial goods	0.3	0.4	0.1	0.2	0.2	0.5	0.7	0.8			
Energy	-4.0	-3.9	-4.2	-2.0	-3.5	-1.9	-3.4	-2.4			
Services	1.4	1.5	1.4	1.6	1.5	1.8	1.8	2.1			
Sources: SO SR and NBS calculations.											