

Economic Analysis Department

Inflation and economic growth projection of Narodowy Bank Polski based on the NECMOD model

Warsaw / 11 March 2019



Outline:

Changes between rounds

Projection 2019 - 2021

- Economic conditions abroad
- Polish economy
 - GDP
 - Consumption demand
 - Investment demand
 - Foreign trade
 - Inflation

Uncertainty

1	Changes between	projection	rounds
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- 2 Projection 2019 2021
- 3 Uncertainty

Changes between rounds

Projection 2019 – 2021

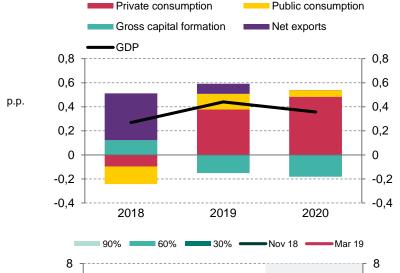
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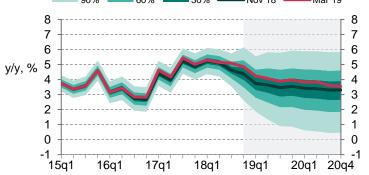
Uncertainty

Changes between projection rounds



March GDP projection compared to November projection



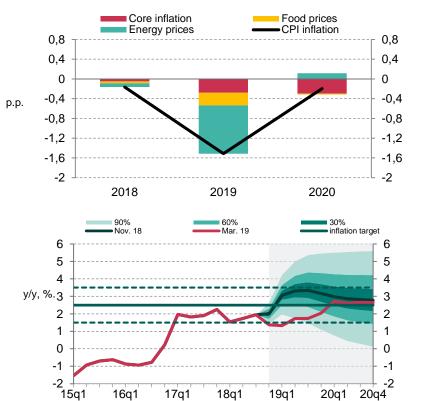


- Legislation package, planned by the government, significantly increasing expenditures on social benefits and reducing tax burden.
- 1 Higher wage growh in the public sector in 2019.
- Lower expected economic growth in the euro area.

GDP y/y, %	2018	2019	2020
November 2018	4.8	3.6	3.4
March 2019	5.1	4.0	3.7



March CPI projection compared to November projection



- Substantial fall in global oil prices in 2018Q4.
- Freezing of electricity prices for end-users in 2019 on the 2018 level.
- Stronger than anticipated impact of immigration from Ukraine on Polish potential output growth.
- Special offers for mobile telephony and digital and cable TV lowering core inflation in 2018Q4.

CPI y/y, %	2018	2019	2020
November 2018	1.8	3.2	2.9
March 2019	1.6	1.7	2.7

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Projection 2019-2021

- Economic conditions abroad
- Polish economy

Changes between rounds

Projection 2019 – 2021

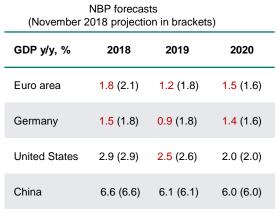
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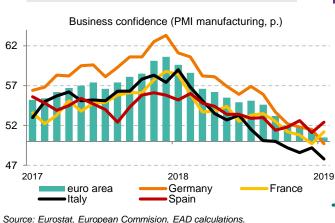
Uncertainty

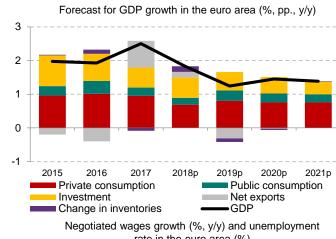
Economic conditions abroad

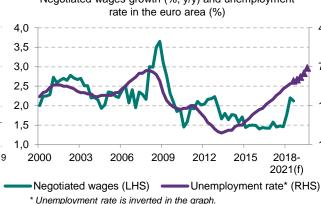


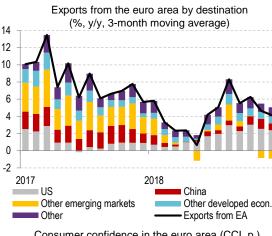
Weak 18Q4 data and deterioration of the export outlook contributed to the reduction of economic growth forecast for the euro area in 2019-2020



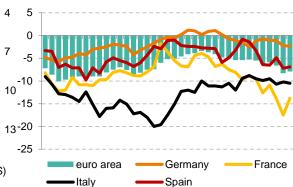






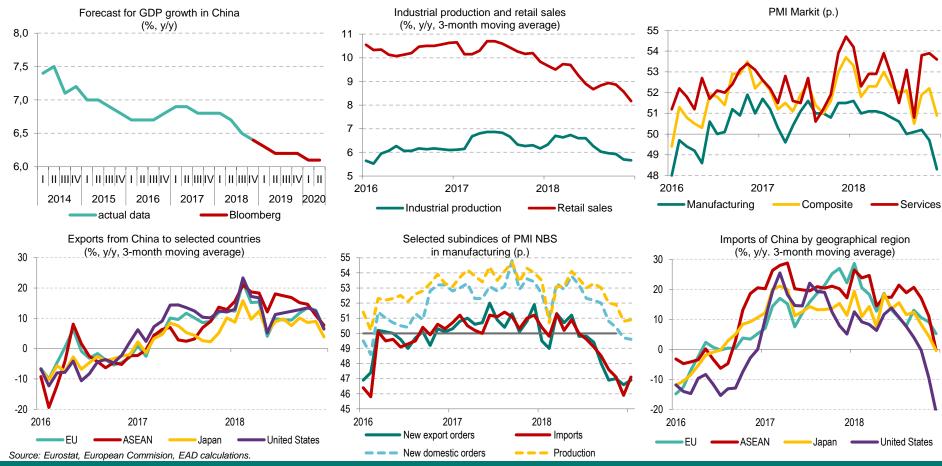


Consumer confidence in the euro area (CCI, p.)

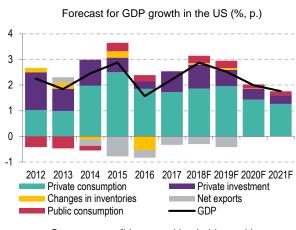


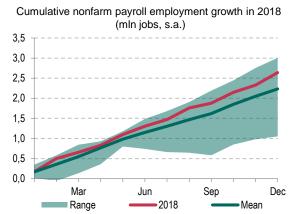


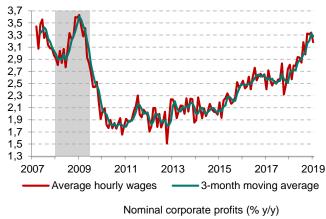
Slower growth in China, deepened by the trade dispute with the United States



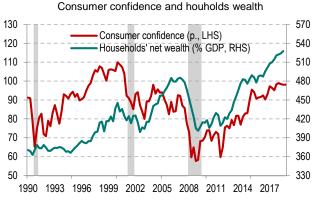
As expected growth in the United States gradually slowdowns

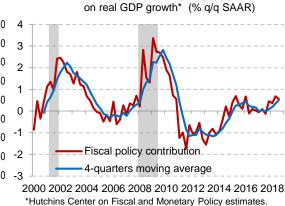




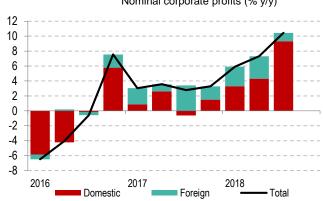


Nominal wages (%, y/y)





Impact of fiscal policy (pp.)



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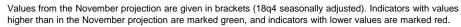
Polish economy

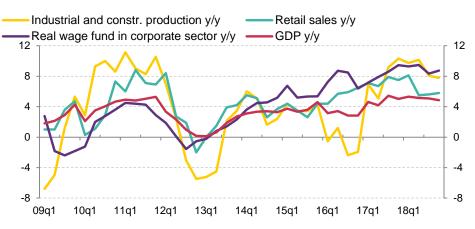
Gross domestic product

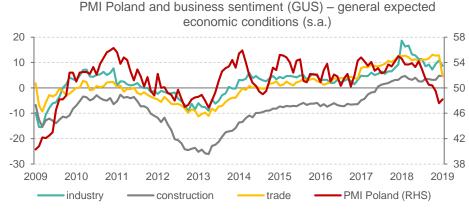


In 2018Q4 Polish economy still expanded at a high rate...

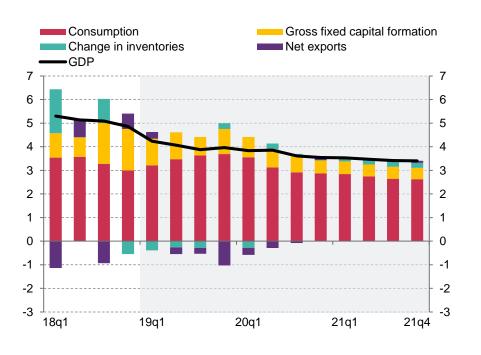
	1	8q3	1	18q4
GDP (y/y) (%)	5.1	(4.6)	4.9	(4.4)
Domestic demand (y/y) (%)	6.2	(5.6)	4.3	(4.9)
Household consumption (y/y) (%)	4.5	(4.6)	4.2	(4.5)
Public consumption (y/y) (%)	3.6	(4.7)	4.6	(4.6)
Gross fixed capital form. (y/y) (%)	9.9	(8.0)	6.9	(6.2)
Eksports (y/y) (%)	4.9	(5.5)	7.2	(5.0)
Imports (y/y) (%)	6.9	(7.4)	6.1	(6.0)
Net exports contribution (p.p.)	-0.9	(-0.7)	0.7	(-0.4)







... in the quarters to come the growth will gradually decline following the economic slowdown in the euro area and the slowdown in the growth of EU funds absorption



- Private consumption is the main factor behind GDP growth over the projection horizon due to favourable labour market conditions and expansive fiscal policy planned by the government.
- Gradual slowdown in the euro area will have a negative impact on the GDP growth at home.
- Gross fixed capital formation dynamics will weaken in 2019-2021 following the slowdown in the growth of EU funds absorption.

y/y, %	2018	2019	2020	2021
GDP	5.1	4.0	3.7	3.5

Changes between rounds

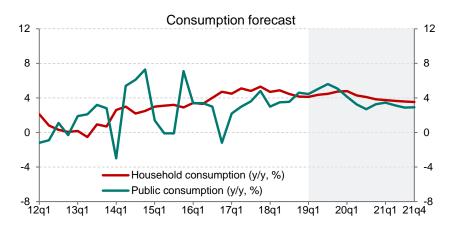
Projection 2019 – 2021

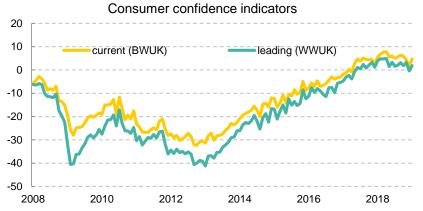
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Uncertainty

Consumption demand

Consumption demand as the main driver of GDP growth in the projection





Private consumption:

- Legislation package, planned by the government, significantly increasing expenditures on social benefits and reducing tax burden.
- 1 Low interest rates facilitate financing consumption through borrowing.
- Weakening growth of wages and employment in 2020-2021.
- Use Higher inflation towards the end of projection horizon.

Public consumption:

- 2019 Budget Act increase in wages in the budget sector and selected professional groups (i.a. teachers, academic teachers and employees of uniformed services).
- Higher expenditures on local transport under government legislation package announced in February.
- Lack of detailed information on the public consumption expenditure in 2020-2021.

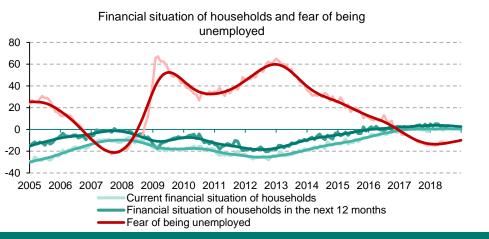
y/y, %	2018	2019	2020	2021
Household consumption	4.5	4.4	4.3	3.6
Public consumption	3.7	5.1	3.3	3.1

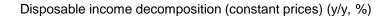
Source: GUS data, NBP calculations.

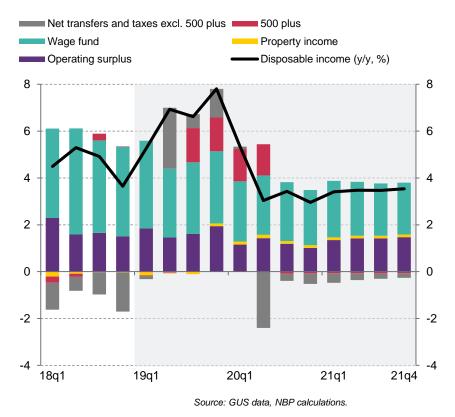
Still good financial situation of households

	18q:	3	18q	4
ULC (y/y, %)	3.3	(3.3)	3.1	(3.5)
Labour productivity (y/y,%)	4.4	(3.9)	3.9	(3.2)
Gross wages (y/y, %)	7.6	(6.9)	7.3	(6.7)
Employment LFS (y/y, %)	0.7	(0.7)	0.9	(1.1)
Unemployment rate LFS (%)	3.7	(3.3)	3.6	(3.3)
Participation rate (%)	56.4	(56.2)	56.4	(56.4)

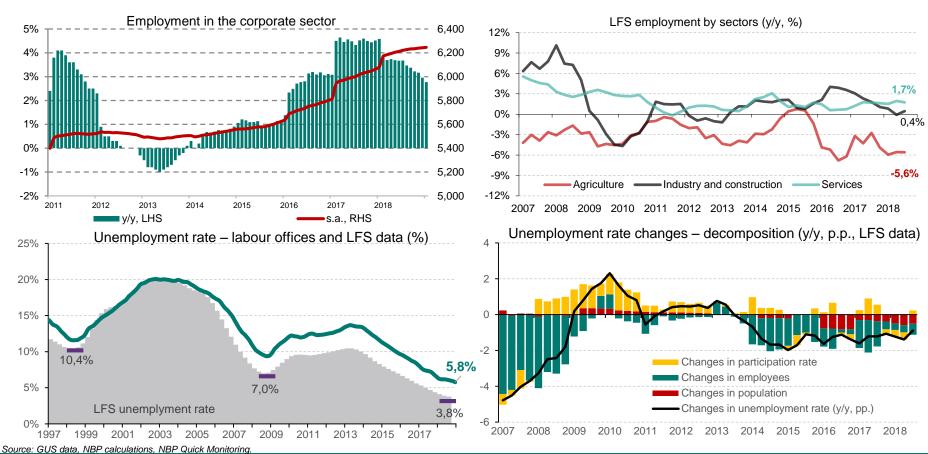
Values from the November projection are given in brackets (seasonally adjusted). Indicators with values higher than in the November projection are marked green, whereas indicators with lower values are marked red.

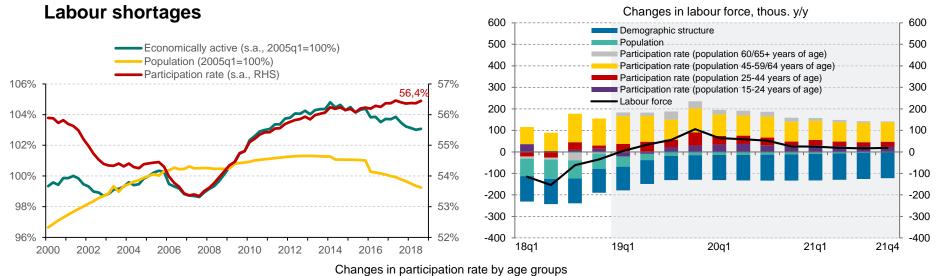




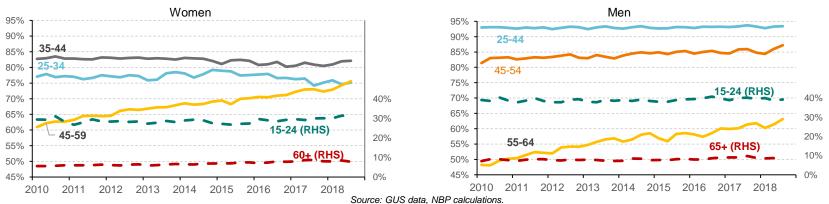


Diminishing employment growth, slowdown of unemployment rate declines

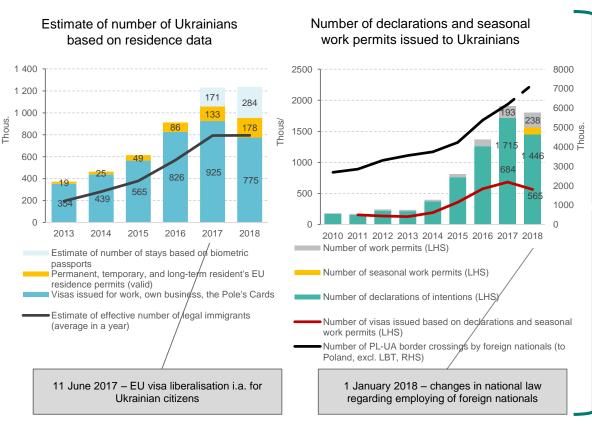


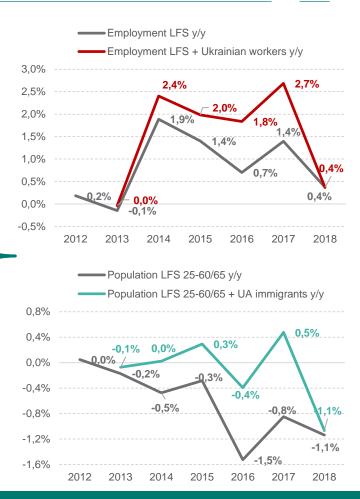




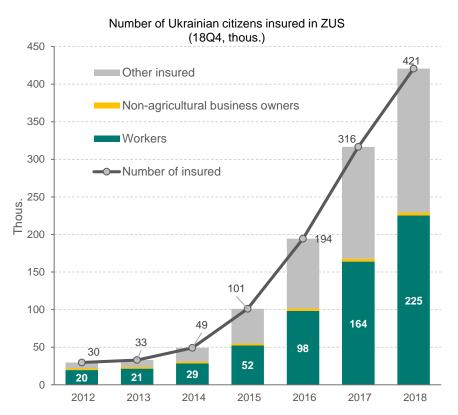


Stabilisation of immigration from Ukraine





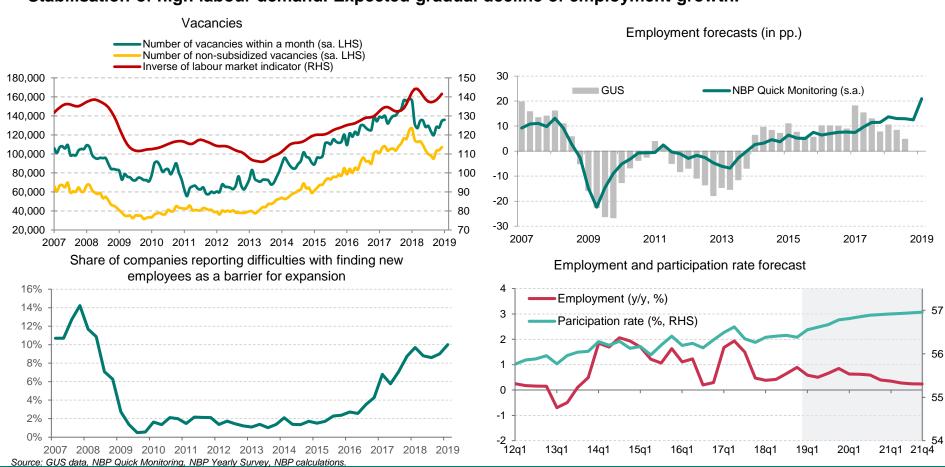
Number of immigrants from countries other than Ukraine increases, but still remains low compared to numer of Ukrainian citizens. Possible outflow of Ukrainian citizens to Germany.





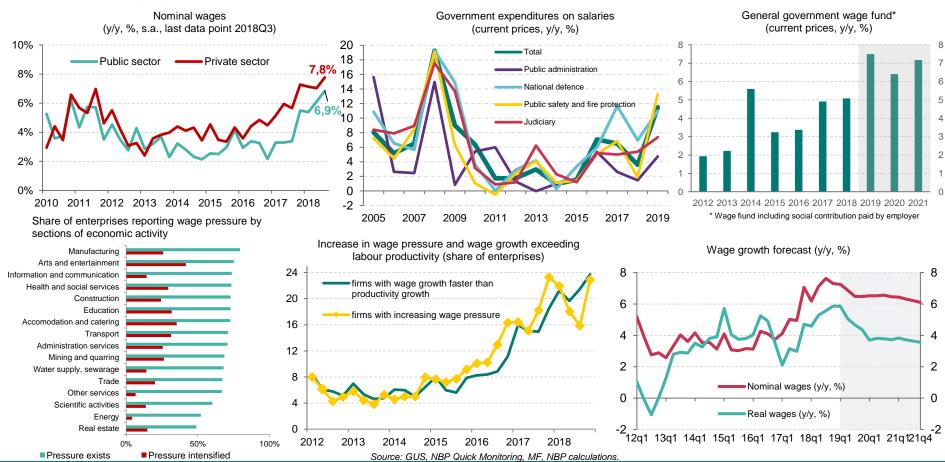


Stabilisation of high labour demand. Expected gradual decline of employment growth.





Elevated wage growth decreases in projection horizon



Changes between rounds

Projection 2019 – 2021

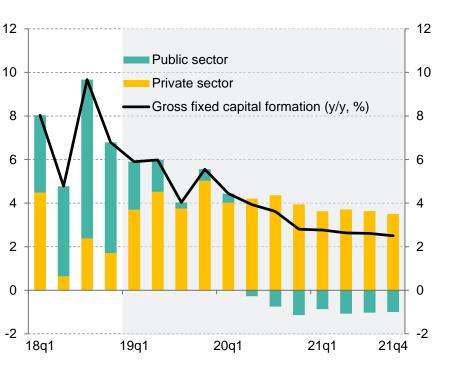
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Investment demand



Weakening growth of gross fixed capital formation in 2019-2021



Public sector investments:

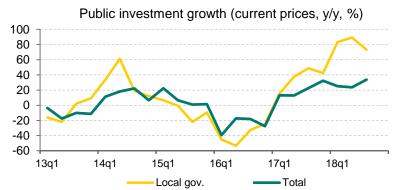
- Positive, but lower than in 2018, growth in EU funds absorption in 2019.
- Decreasing EU funds absorption in 2020-2021.

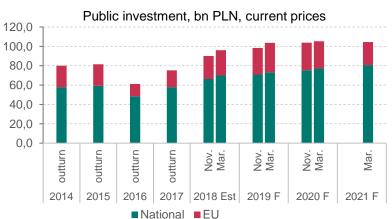
Private sector investments:

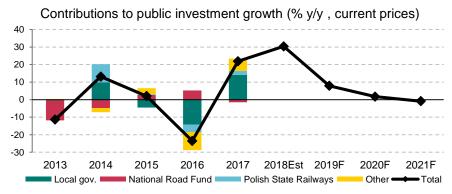
- û Currently favorable demand conditions.
- ∀ery high level of capacity utilisation in corporations.
- ↑ Low interest rates.
- Good economic situation of households.
- Problems with finding employees.
- Use Lower dynamics of internal and external demand.
- Diminishing contribution of EU funds absorption.

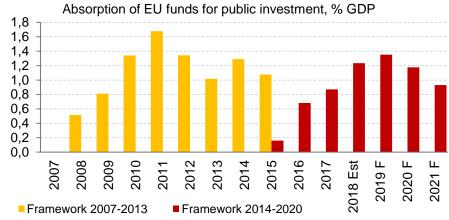
y/y, %	2018	2019	2020	2021
Gross fixed capital formation	7.3	5.4	3.7	2.6

High increase in absorption of EU funds for public investment in 2018. Lower increase in the absorption in 2019, pronounced declines in the following years.

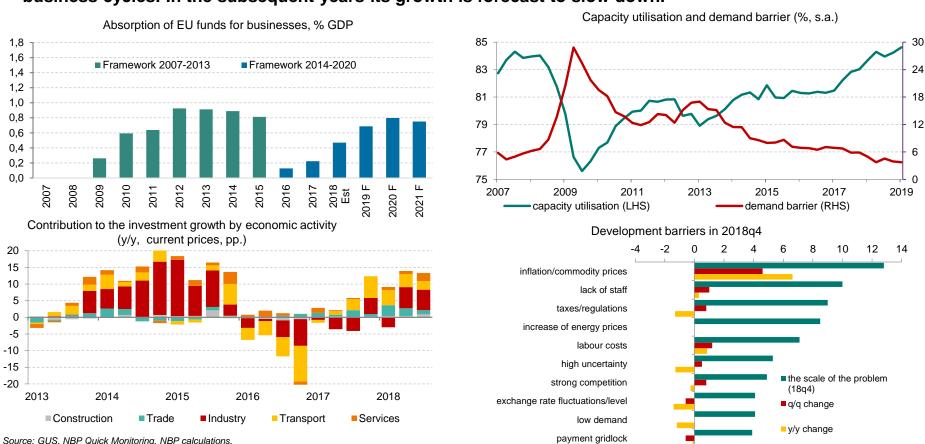








Expected acceleration of business investment in 2019, however its growth will be lower than in the previous business cycles. In the subsequent years its growth is forecast to slow down.



Changes between rounds

Projection 2019 – 2021

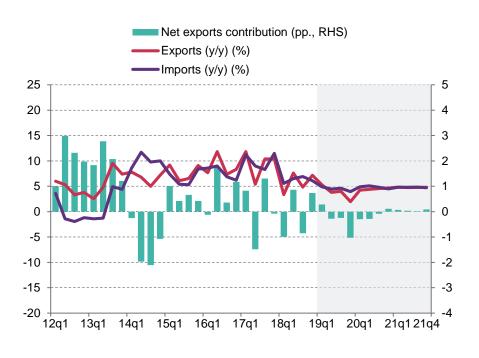
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Foreign trade



Contribution of net exports to GDP growth in 2020-2021 close to neutral



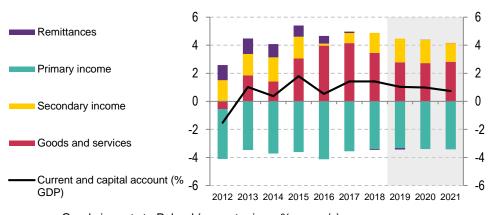
Net exports:

- ♣ Slowdown in global trade and weaker economic growth in the euro area in 2019-2021.
- Still relatively high competitiveness of the Polish economy.

y/y pp.	2018	2019	2020	2021
Net exports contribution to growth	0.0	-0.3	-0.1	0.1

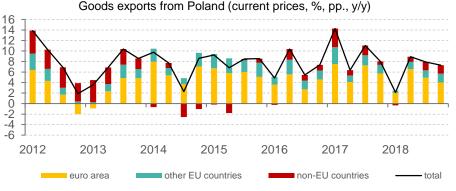
Slight deterioration of positive current and capital account balance in 2019-2021

Current and capital account balance (% GDP)



- Still relatively high competitiveness of the Polish economy.
- Decrease in surplus in trade of goods and services in 2019 still relatively high growth of domestic demand accompanied by decline in demand for Polish exports.
- Decrease in surplus in capital account in 2021 slower inflow of EU funds for investment purpuses towards the end of the 2014-2020 framework.





Changes between rounds

NBP Narodowy Bank Polski

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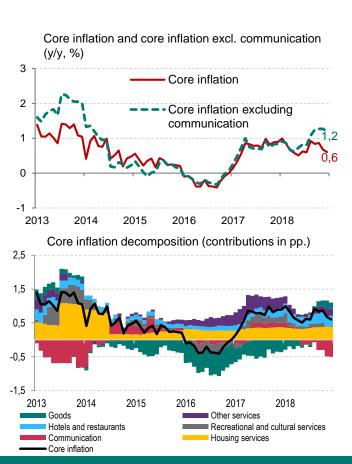
Polish economy

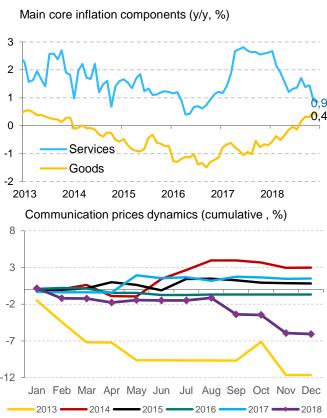
Inflation

Lower than expected CPI inflation in 2018Q4. Persistent low core inflation in 2018.

y/y, %	18q	4
CPI inflation	1.4	(2.0)
Core inflation	0.7	(1.1)
Food prices	1.1	(1.8
Energy prices	4.1	(5.5)

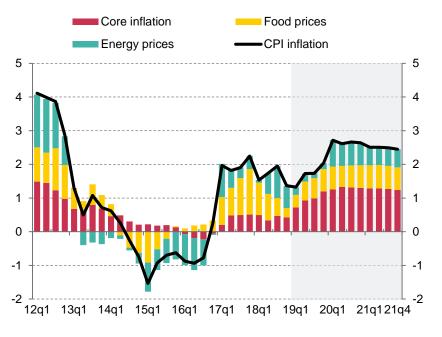
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CPI inflation will increase in 2020 and then decline slightly to around 2.5% y/y towards the end of projection horizon

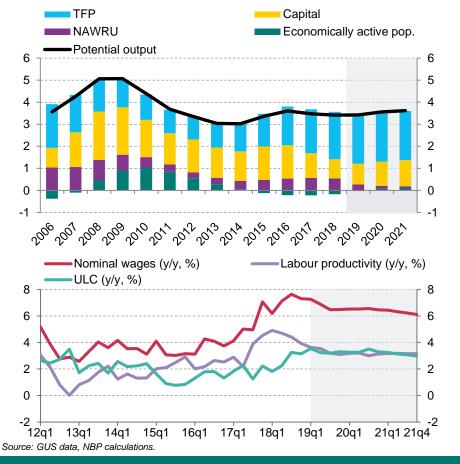


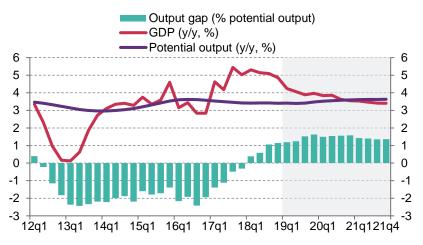
y/y, %	2018	2019	2020	2021
CPI inflation	1.6	1.7	2.7	2.5

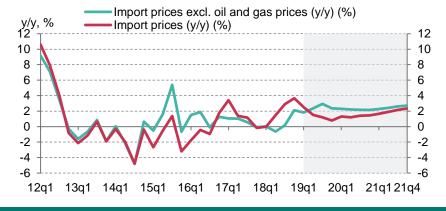
- Delayed effect of current increase in cost pressure from the labour market and demand pressure.
- ⇔ \$\bar{\text{\$}}\$ Stabilisation and then decline of the cost and demand pressure in the longer projection horizon.
- Low inflation in the external environment of Poland.
- Use Strong competition in the retail sector.
- Decrease in fuel prices growth in 2019, following a drop of energy commodities prices.
- Freezing of electricity prices for end-users in 2019 at the 2018 level, permanent reduction in excise duty and interim fee, and compensations paid to power companies in 2019.
- Increase in electricity prices in 2020-2021 (phased effect of higher production costs due to an increase in coal and CO₂ emission allowances prices.



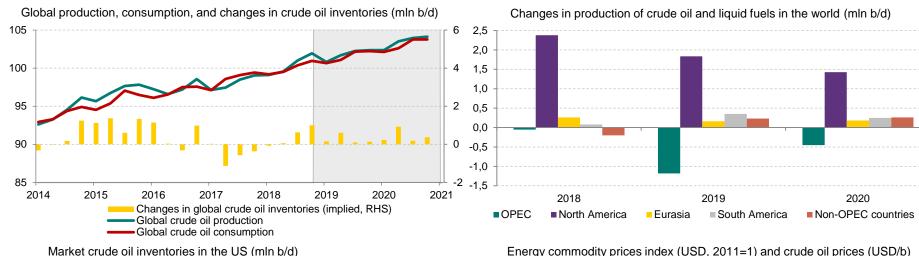
Increase in core inflation in the quarters ahead due to rising labour costs and high demand

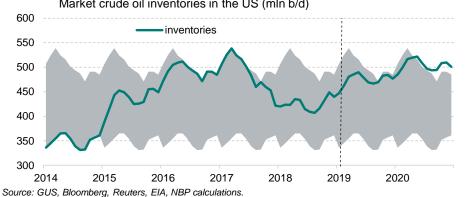


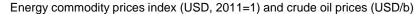


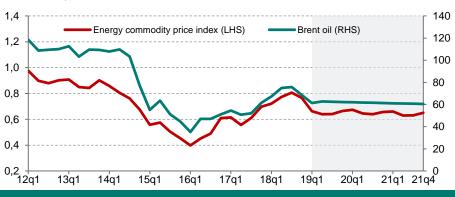


High supply and low demand are continuing to foster low level of oil prices



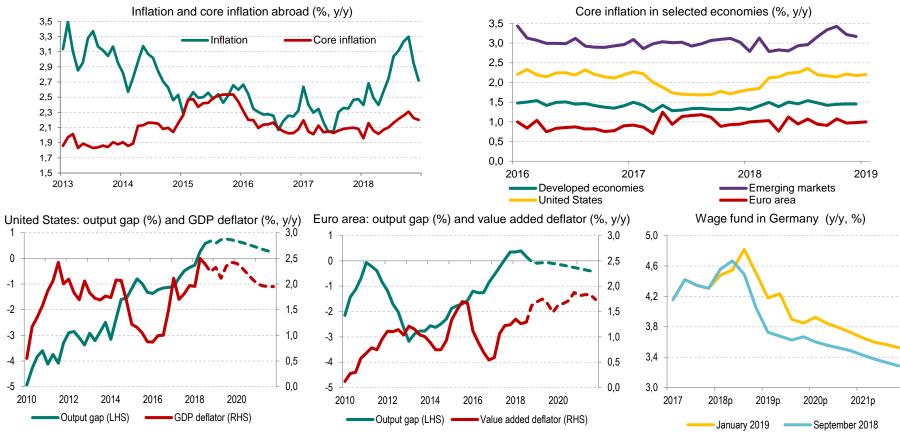








Domestic inflation will be curbed by low inflation and slower economic growth abroad



Changes between rounds

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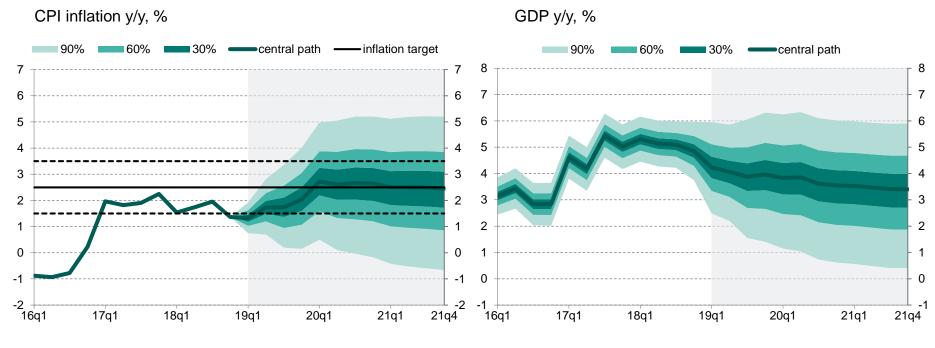
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Uncertainty

Uncertainty

- Risk factors
- Fan charts

Risk area	Description	Impact	Scale of impact
	 Escalation of current trade disputes and further spreading of protectionism, leading to larger disturbances in the global trade, deterioration of economic conditions, elevated uncertainty and tensions in the financial markets. 		
Global economic outlook	Lower economic growth in the United States due to trade disputes and bigger drop in equity prices on american stock exchange (low households' saving rate, with high share of their wealth held in financial assets).	Inflation ⇩⇩ GDP ⇩⇩	**
	 The United Kingdom's withdrawal from the European Union without prior agreement on the terms on which it is to take place – so called no-deal brexit (increase in uncertainty and lower economic growth both in the UK and the EU). 		
Impact of the energy	 Disturbances on global markets of oil and other energy commodities. 	Inflation⇔	
sector on inflation in Poland	 Scale and timing of the impact of the increase in wholesale electricity prices on the tariffs for end users. 	GDP⇔	**
Labour supply in Poland	• Uncertainty related to the scale of reemigration of Ukrainian workers from Poland due to changes in law in other EU countries, which will make it easier to employ the citizens of non-EU countries (i.e. in December 2018 the German government directed to the Bundestag a bill giving easier access to the German labour market for skilled workers from outside the EU).	Inflation û GDP ⇩	*
	Summary	Inflation ↓ GDP ↓	



CPI y/y, %	below 1.5%	below 2.5%	below 3.5%	below centr. path	in the range 1.5-3.5%
2019	37%	87%	99%	49%	62%
2020	21%	47%	74%	51%	53%
2021	30%	53%	76%	53%	46%

CPI y/y, %	central path	50% probability interval	
2019	1.7	1.2	2.2
2020	2.7	1.7	3.6
2021	2.5	1.3	3.5

GDP y/y, %	central path	50% probability interval	
2019	4.0	3.3	4.7
2020	3.7	2.7	4.6
2021	3.5	2.4	4.3

Source: GUS data, NBP calculations.

We protect the value of money