

MARKET REVIEW

Enterprises Survey Results in the Real Sector of the Economy

Q4 2021



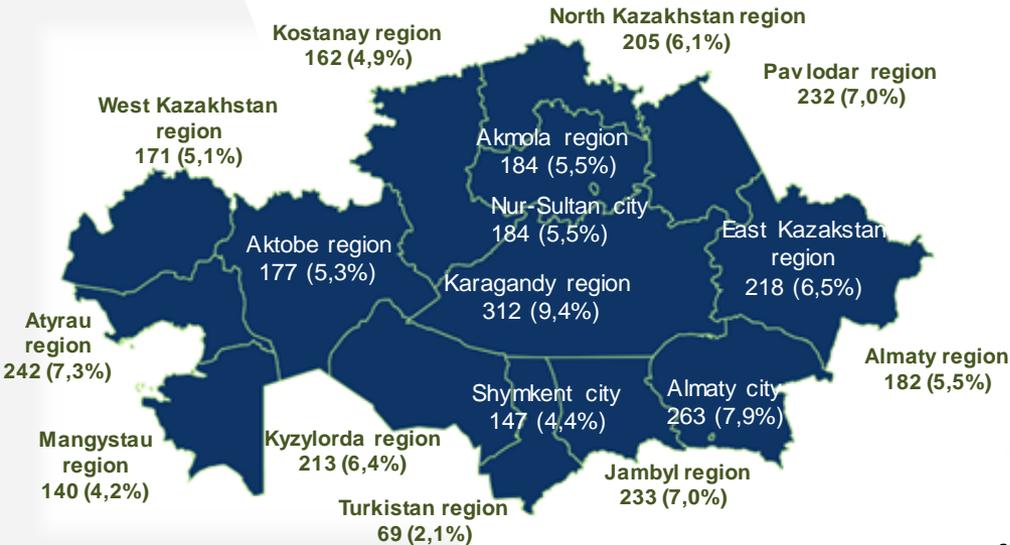
Monetary Policy Department
National Bank of Kazakhstan

CONTENT

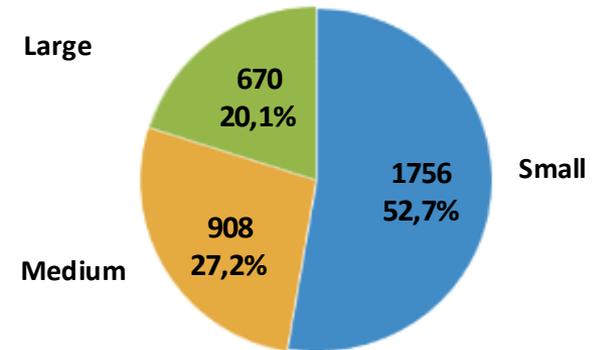
- I. Dynamics of composition of monitoring participants (p. 3)
- II. Dynamics of demand for final products (p. 4)
- III. Price changes in the real sector (p. 5)
- IV. Production output (p. 6)
- V. Balance sheet structure: assets (p. 7)
- VI. Balance sheet structure: liabilities (p. 8)
- VII. Investment activity (p. 9)
- VIII. Sources of working capital financing (p. 10)
- IX. Obstacles for doing business (p. 11)
- X. Financial and economic performance change (p. 12)
- XI. Assessment of the financial condition of enterprises (p. 13-14)
- XII. Banking system impact on the real sector of the economy (p. 15-17)
- XIII. Foreign economic activities of enterprises (p. 18)
- XIV. Impact of exchange rate changes (p. 19)
- XV. Composite leading indicator (p. 20)
- XVI. Methodological comments (p. 21)

DYNAMICS OF COMPOSITION OF MONITORING PARTICIPANTS

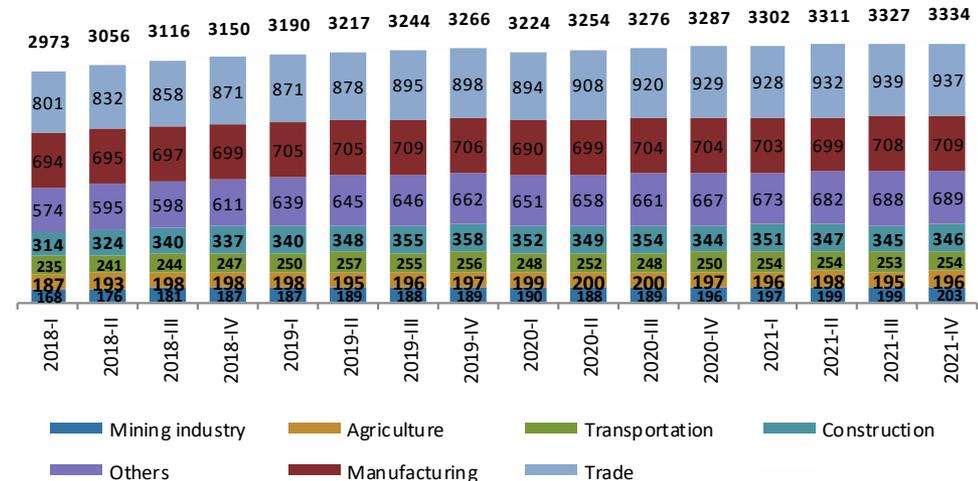
Regional structure of the enterprise survey participants in Q4 2021



Survey participants size structure



Survey participants sectorial structure



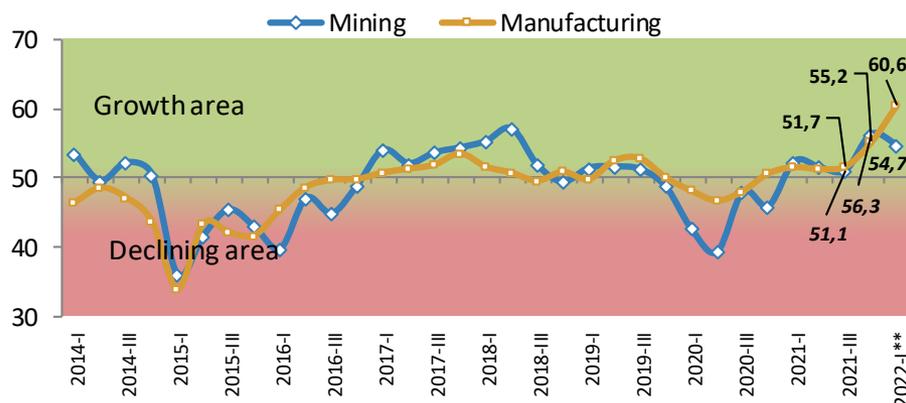
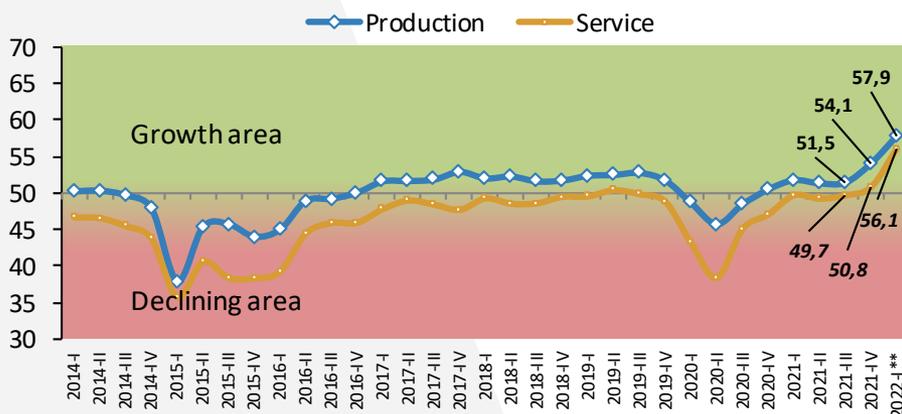
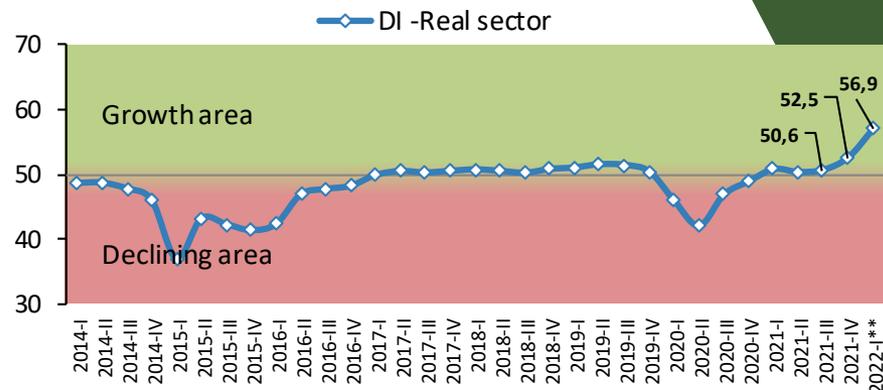
In Q4 of 2021 the number of respondents increased by 7 enterprises compared to the previous quarter and amounted to 3334. 14 small enterprises were involved in the survey, 4 medium and 3 large enterprises dropped out.

In the sectoral context, an increase in the number of enterprises was noted in the mining industry (4), agriculture, transport and warehousing, construction, manufacturing and other industries (1 in each).

DYNAMICS OF DEMAND FOR FINAL PRODUCTS

Final goods demand, DI*

		2020				2021				2022
Answers of enterprises, %		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1**
Increase	1	12,9	18,7	22,4	22,4	16,4	24,1	24,2	24,4	12,6
No changes	2	50,6	47,6	51,8	51,6	51,5	53,1	55,6	55,1	40,7
Decrease	3	33,8	30,7	22,6	22,9	28,5	19,1	16,4	17,3	13,7
Do not know	4	2,7	3,0	3,2	3,1	3,6	3,7	3,8	3,2	33,0
Diffusion index, DI=line1+0.5*(line2+line4)	5	39,6	44,0	49,9	49,7	43,9	52,5	53,9	53,6	49,4
DI, seasonal adjusted	6	45,8	41,9	46,8	48,8	50,7	50,2	50,6	52,5	56,9



In Q4 of 2021 the demand for final products in the real sector increased. The diffusion index (hereinafter - DI) was **52,5**. The improvement in the indicator was noted in sectors of production of goods (54,1) and service (50,8), in mining (56,3) and manufacturing (55,2) industries.

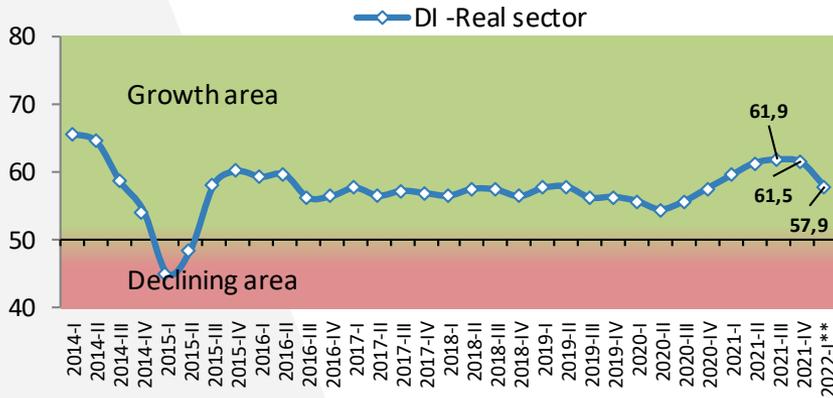
According to the expectations of enterprises in the real sector in Q1 of 2022 the process of demand recovery will continue (DI=56,9).

*Diffusion Index (seasonally adjusted). The higher (the lower) the DI deviates from 50, the higher (the lower) are the rates of growth (decline) in indicator; the level of 50 -the absence of any change

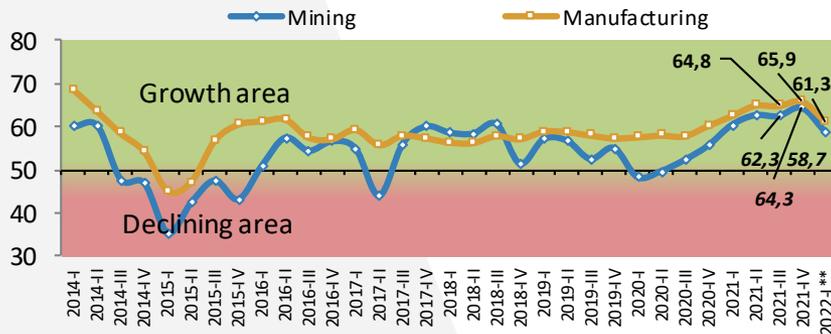
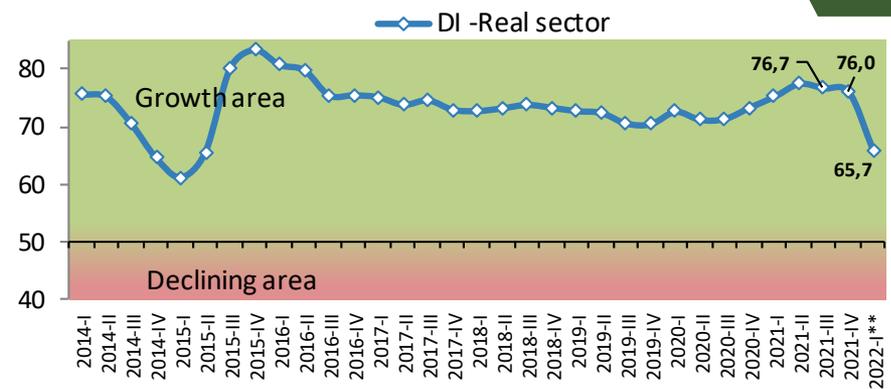
**The Figures show expectations of enterprises regarding the change in the parameter in Q1 2022

PRICES CHANGES IN THE REAL SECTOR

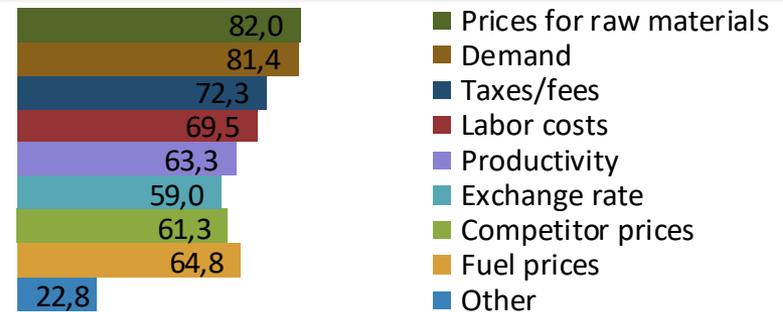
Final goods prices, DI*



Raw materials prices, DI*



Assessment of pricing factors importance , answers in%



In Q4 of 2021 the growth rate of prices for final products of enterprises in the economy as a whole slowed down slightly (DI was **61,5**). At the same time there was a slight increase in prices in the mining and manufacturing industries (DI changed to 64,3 and 65,9, respectively).

For the vast majority of enterprises the most important factor in setting prices for final products is the price of raw materials (for 82,0% of enterprises) and demand (81,4%).

In Q1 of 2022 enterprises expect a slowdown in the growth rates of prices for raw materials (DI=65,7), and accordingly, for final products (DI=57,9).

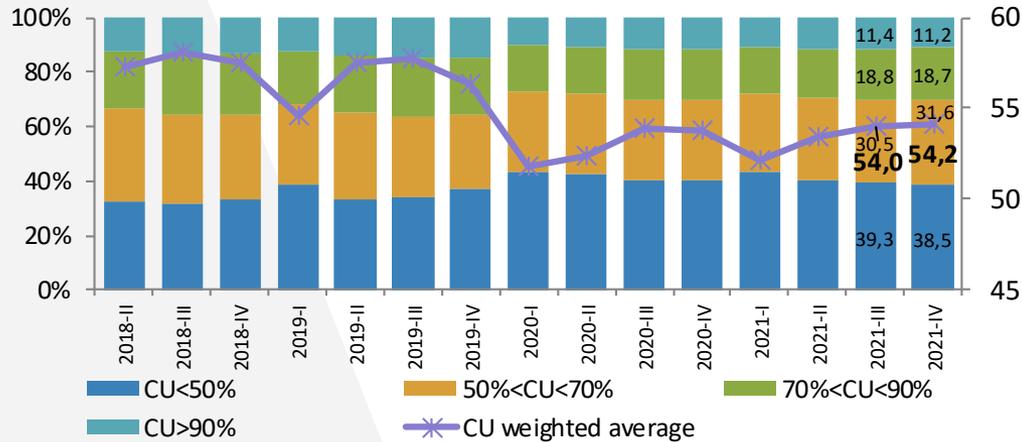
*Diffusion Index (seasonally adjusted). The higher (the lower) the DI deviates from 50, the higher (the lower) are the rates of growth (decline) in indicator; the level of 50 -the absence of any change

**The Figures show expectations of enterprises regarding the change in the parameter in Q1 2022

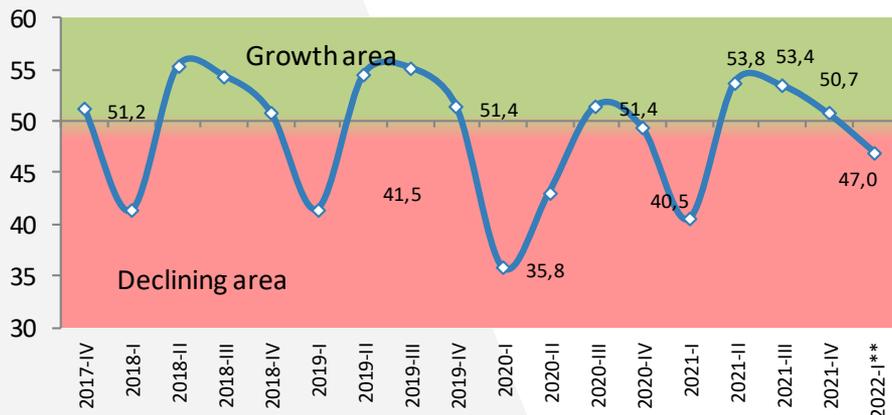
PRODUCTION OUTPUT

Capacity utilization level

(share of respondents, %)



DI changes in production output , DI**



In Q4 of 2021 the capacity utilization (CU) of enterprises remained almost unchanged. The weighted average* level of the CU was **54,2%**.

However, the growth of production output slowed down in Q4 of 2021. DI was **50,7**.

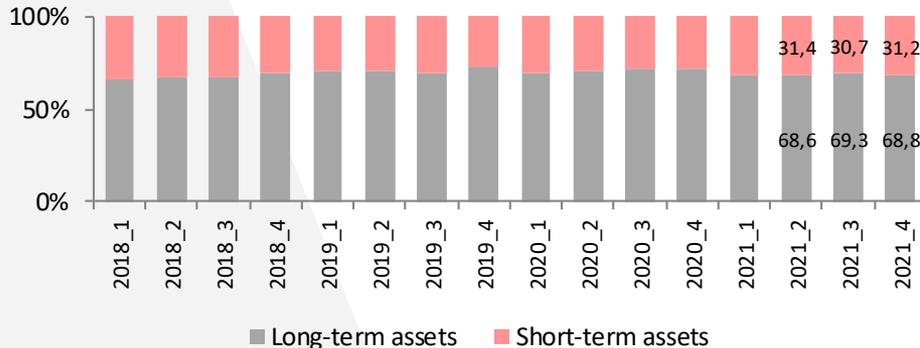
In Q1 of 2022 enterprises expect a decrease in production volume. The expected DI is **47,0**.

* Arithmetic weighted average is the average value of the interval, weighted by the share of enterprises.

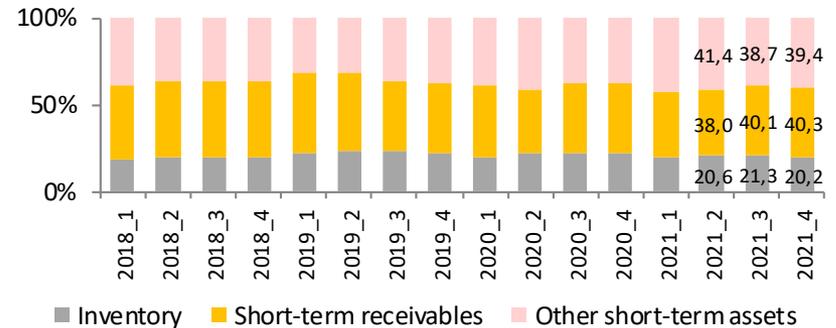
** The higher (lower) the DI from the level of 50, the higher (lower) the growth (fall) rate of the indicator, the level of DI = 50 means no change

BALANCE SHEET STRUCTURE: ASSETS

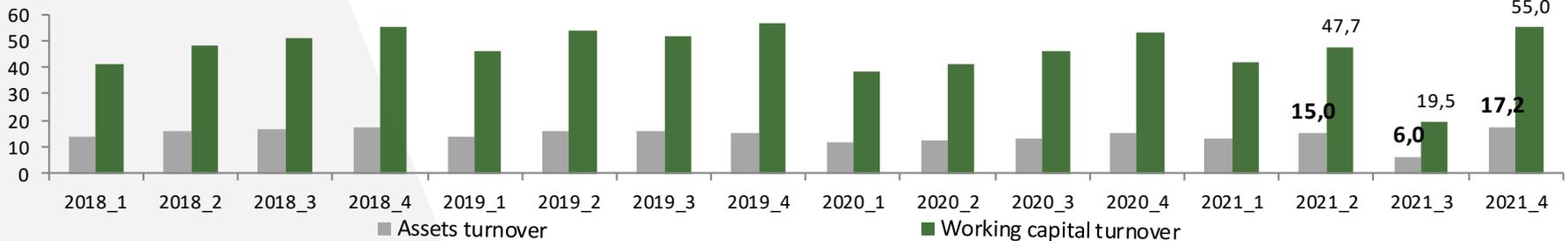
Assets structure



Short-term assets Structure



Assets turnover indicators



In Q4 quarter of 2021 in the structure of assets of companies in the real sector of the economy, the share of short-term and long-term assets remained almost unchanged, amounting to **31,2%** and **68,8%** (in Q3 – 30,7% and 69,3%, respectively). Asset turnover* increased up to **17,2%**, working capital turnover** – up to **55,0%**

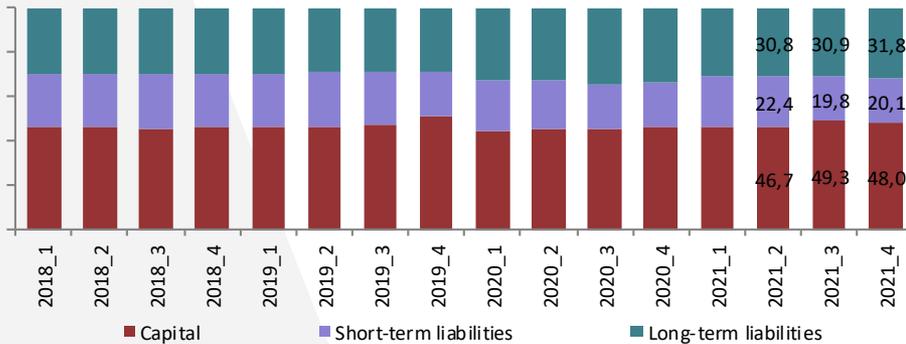
In the structure of short-term assets in the past quarter, the share of receivables remained almost unchanged at **40,3%** (in Q3 – 40,1%), while the share of inventories slightly decreased to **20,2%** (21,3% in Q3).

Asset turnover = Income from product sales / Assets 100

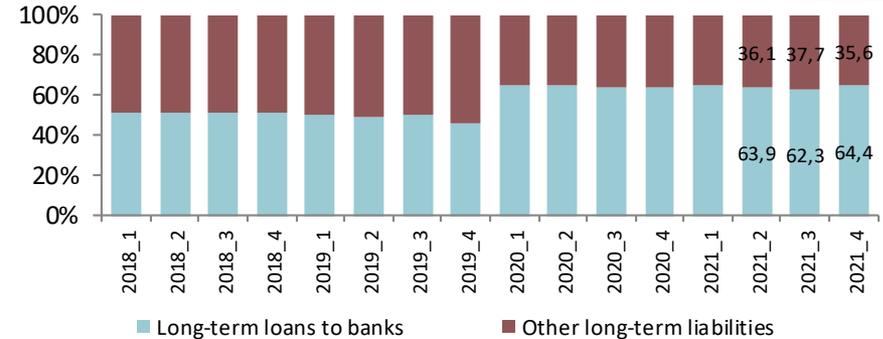
**Turnover of current assets = Income from product sales / Short-term assets* 100

BALANCE SHEETS STRUCTURE : LIABILITIES

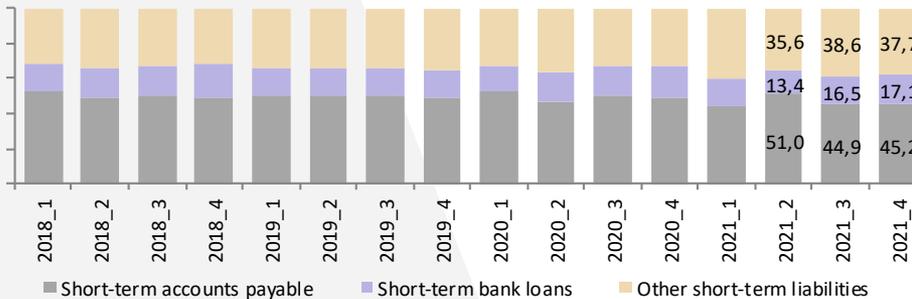
Liabilities structure



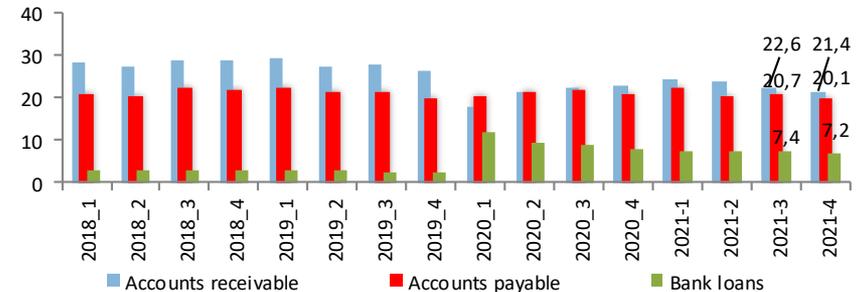
Long-term liabilities structure



Short-term liabilities structure



Share of enterprises with overdue debts

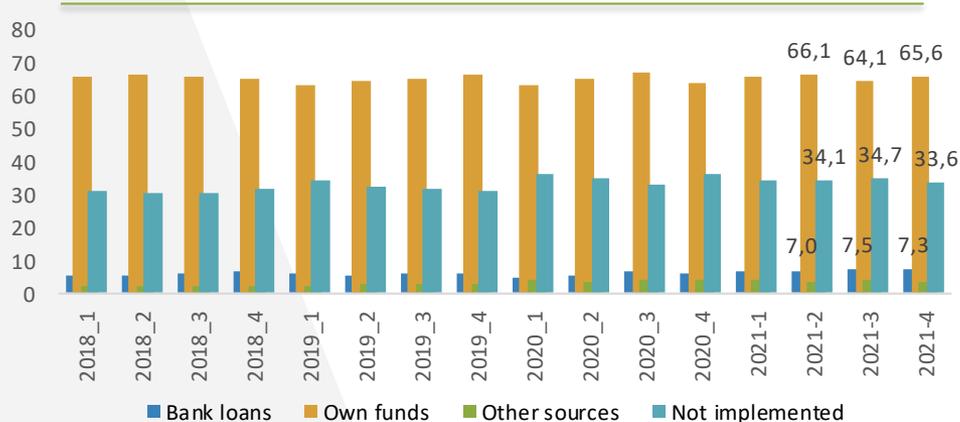


In Q4 of 2021 an increase in the share of short-term and long-term liabilities was noted, up to **20,1%** and **31,8%**, respectively, and a decrease in the share of equity, up to **48,0%**. In the structure of short-term liabilities the share of short-term accounts payable increased from 44,9% in Q3 to 45,2% in Q4 2021. The share of short-term bank loans increased to 17,1% (in Q3 – 16,5%).

The share of enterprises with overdue receivables and accounts payable, as well as debt on bank loans, decreased to **21,4%**, **20,1%** and **7,2%**, respectively.

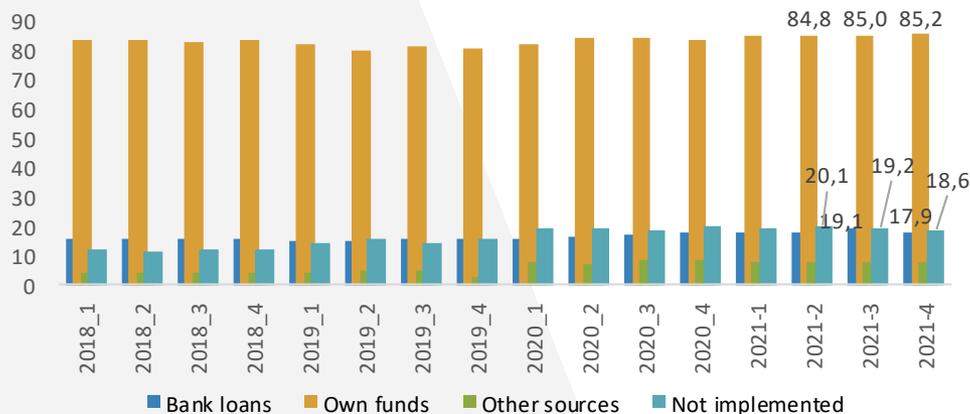
INVESTMENT ACTIVITY

Funding source for fixed assets, %



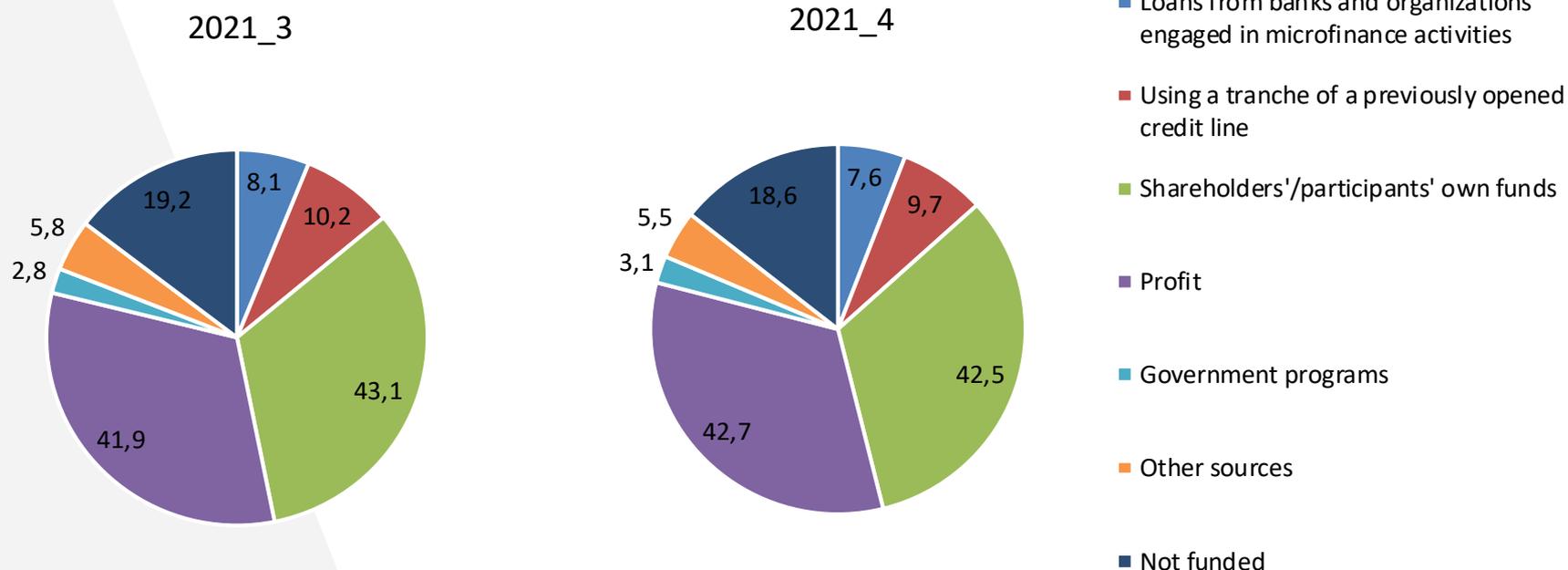
In Q4 of 2021 the investment activity of enterprises increased slightly. The share of enterprises that did not finance fixed assets decreased (to 33,6%), while the share of enterprises that financed fixed assets at their own expense increased (to 65,6%). As before, most enterprises use their own funds to finance fixed and working capital (65,6% and 85,2%, respectively).

Funding source for working capital, %



SOURCES OF WORKING CAPITAL FINANCING

Sources of working capital financing

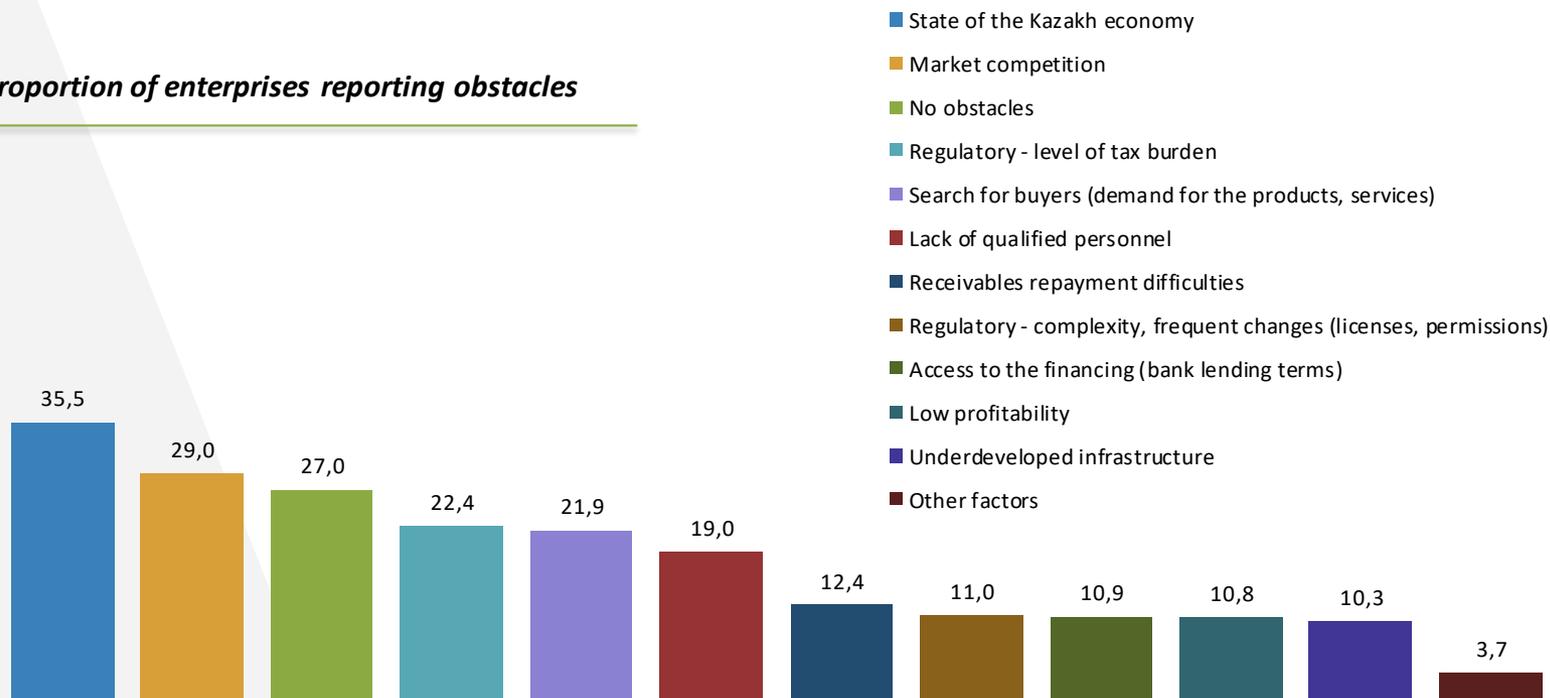


To finance **working capital** the majority of enterprises (**85,2%**) used their own funds, of which **42,7%** used profit and **42,5%** - own funds of shareholders/participants. Loans for these purposes were used by **18,0%** of enterprises (of which 9,7% used a tranche under a previously opened credit line, 7,6% - received new loans in Kazakhstan banks and organizations engaged in microfinance activities, 0,7% - loans abroad).

Among other sources, in addition to those presented in the graph, enterprises also indicate advances from customers, intra-group loans (between the parent company and affiliates) and subsidies.

OBSTACLES FOR DOING BUSINESS

Proportion of enterprises reporting obstacles



According to the results of survey in Q4 of 2021, for **35,5%** of enterprises the state, that the economy of Kazakhstan is an obstacle to doing business (in Q3 the share of such enterprises was 34,9%). According to **41,6%** (in Q3 – 42,2%) of the respondents, the economic situation in Kazakhstan worsened in Q4 of 2021, **53,5%** believe that it has not changed.

The most important factors for enterprises, in addition to the state of the economy, are such factors as market competition (29,0%), tax burden (22,4%), demand (21,9%), the lack of qualified personnel (19,0%), receivables repayment difficulties (12,4%), regulatory measures - complexity, frequent changes (licenses, permits) (11,0%), while **access to financing is ranked 9th (10,9%)**.

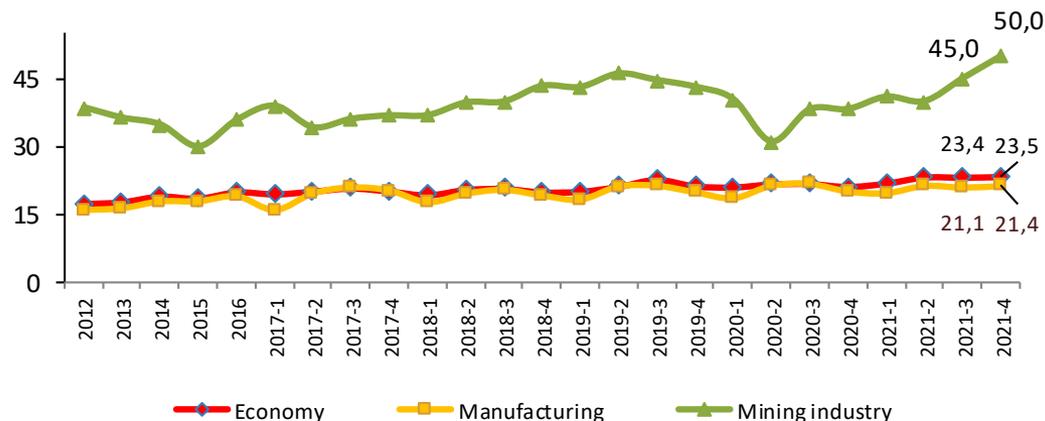
As other obstacles enterprises indicated quarantine measures, the political situation in the country, the exchange rate, raw material prices, as well as seasonality of their business.

FINANCIAL AND ECONOMIC PERFORMANCE CHANGE

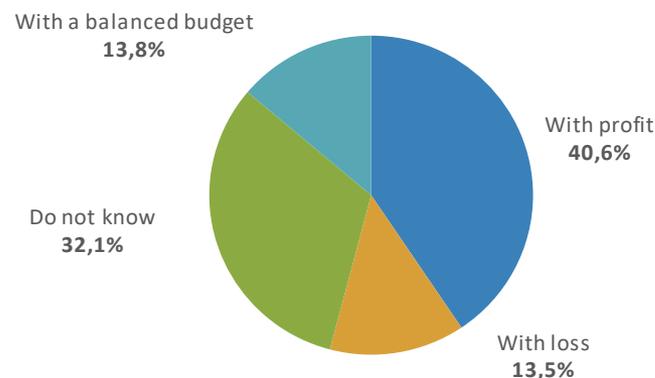
In Q4 of 2021 the average* return on sales** of enterprises in the mining industry increased to **50,0%** from 45,0% in Q3. In manufacturing the return on sales slightly increased to **21,4%** from 21,1% in Q3. As a result, the average return on sales in the economy as a whole almost remained at the same level, amounting to **23,5%**.

The share of enterprises planning to close the year with profit amounted to **40,6%**, **13,5%** believe that the year will end with a loss. At the same time, **13,8%** of the surveyed enterprises think to close the year with a balanced budget (without profit and loss), the remaining **32,1%** have difficulties in giving assessment about their financial condition by the end of the year.

Return on sales *, in %



Share of enterprises planning to close the financial year with profit / loss, %

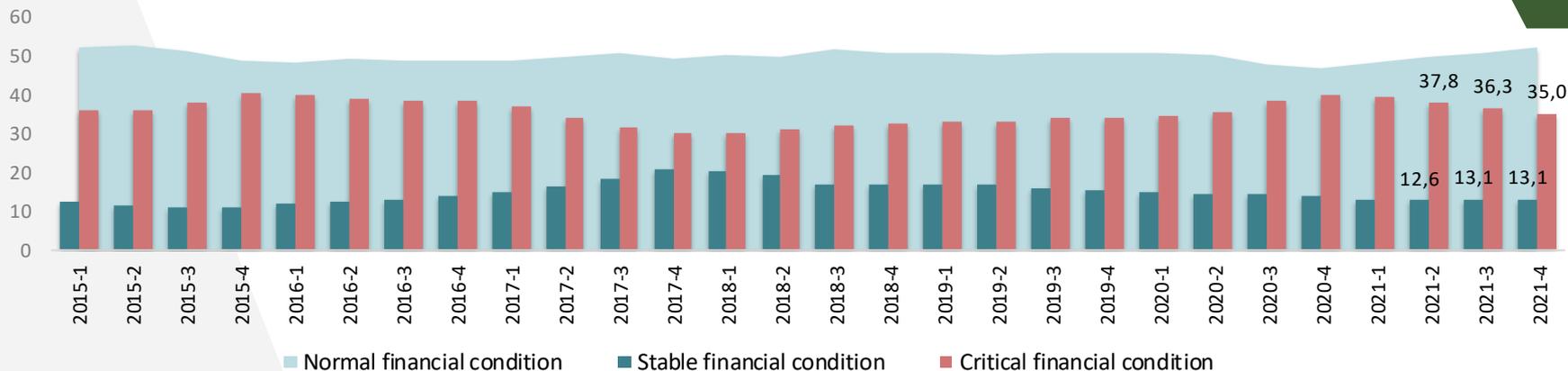


* Average median values are presented as they are less susceptible to extreme emissions than the arithmetic mean

** The sales profitability before expenses deduction on interest, taxes and depreciation is indicated

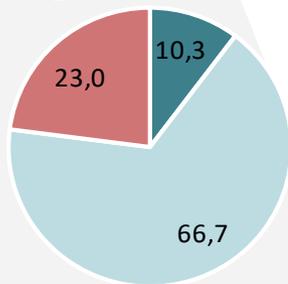
ASSESSMENT OF THE FINANCIAL CONDITION OF ENTERPRISES

*Dynamics of changes in the financial condition of enterprises *, share in %*

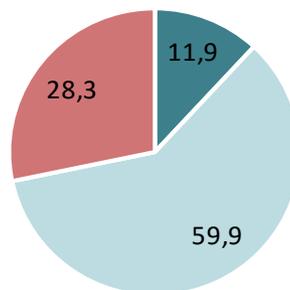


Enterprises distribution by degree of reliability by dimension in Q4 2021, share in %

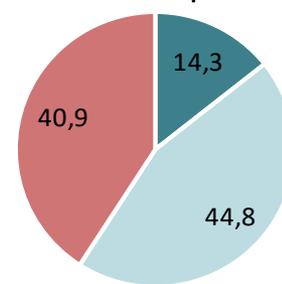
Large enterprises



Medium enterprises



Small enterprises



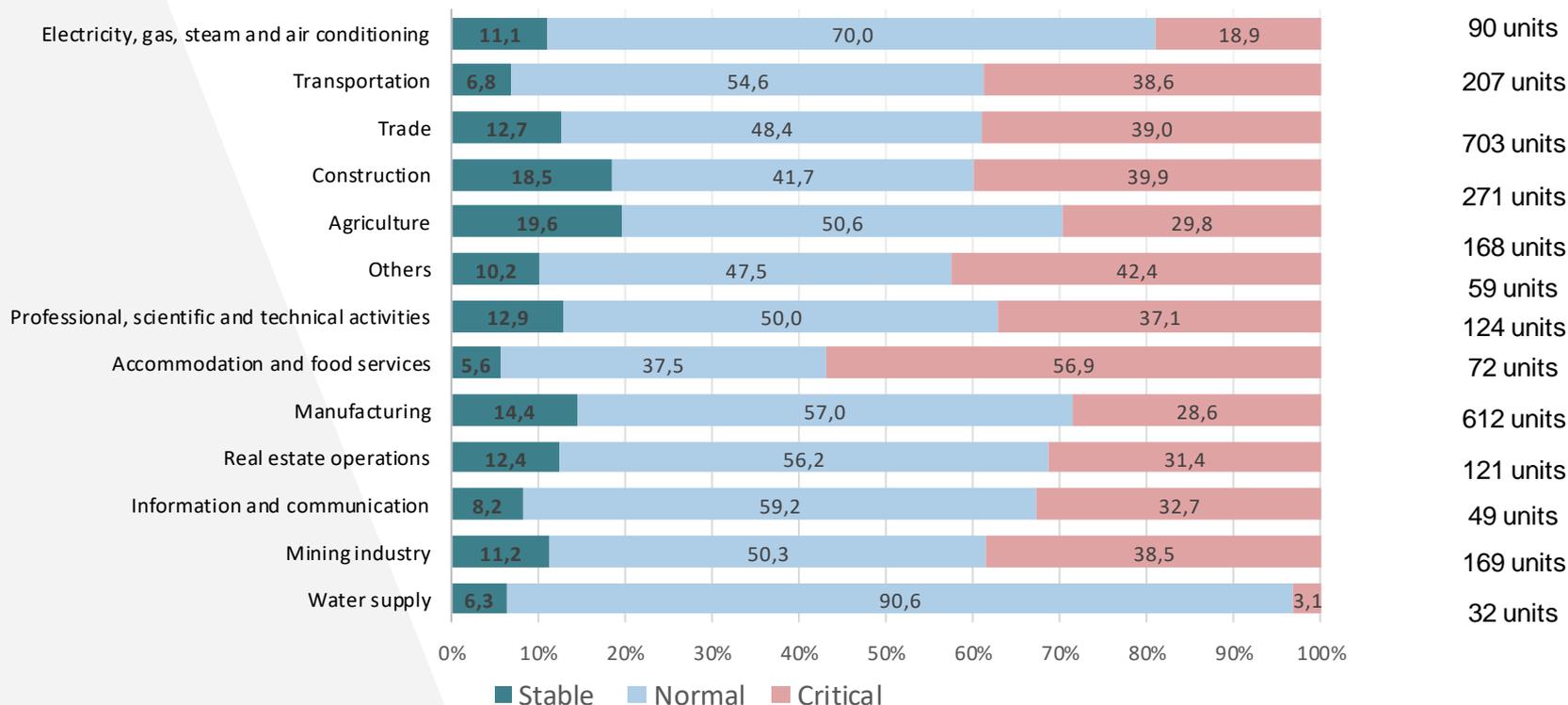
■ Stable
■ Normal
■ Critical

According to the results of a discriminant analysis based on the assessment of the financial coefficients of enterprises, the share of enterprises with a critical financial condition continues to decrease: in Q4 their share was **35,0%**.

By dimensions, the share of enterprises with a critical financial condition among small enterprises is significantly higher (**40,9%**) than among large (23,0%) and medium-sized (28,3%). At the same time, the share of stable enterprises in the structure of large enterprises is lower than in medium and small ones.

ASSESSMENT OF THE FINANCIAL CONDITION OF ENTERPRISES

Enterprises distribution by degree of reliability by type of activity in Q4 2021, share in %



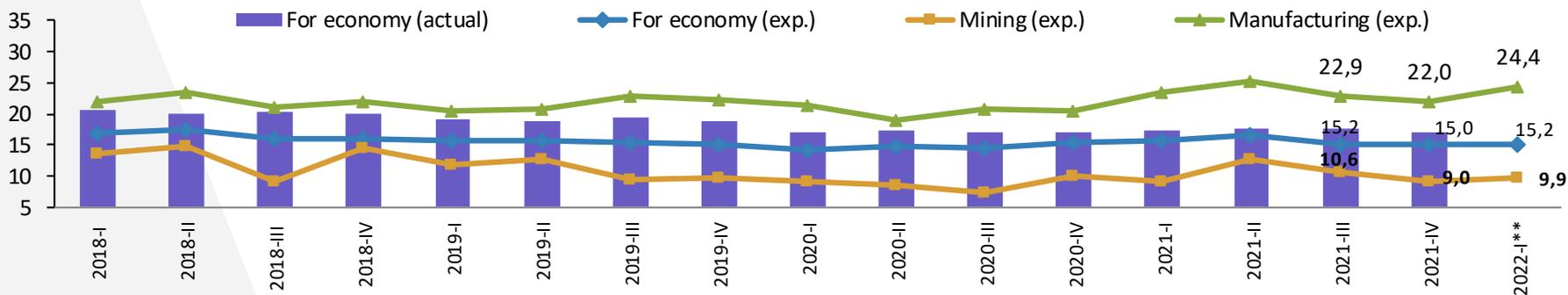
In Q4 of 2021 in all sectors, except for water supply, the share of enterprises with a critical financial condition was greater than the share of enterprises with a stable financial condition. The largest share of stable enterprises is in agriculture (**19,6%**). The largest share of enterprises with a critical financial condition is in the “accommodation and food services” sector (**56,9%**). Water supply and electricity supply turned out to be the most stable sectors, where the share of enterprises with a normal financial condition was **90,6%** and **70,0%**, respectively.

* Companies participating in monitoring have been stable for 3 years

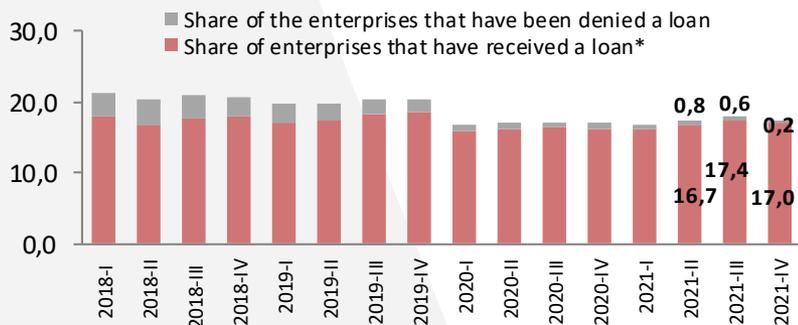
BANKING SYSTEM IMPACT ON THE REAL SECTOR OF THE ECONOMY

Loans demand, %

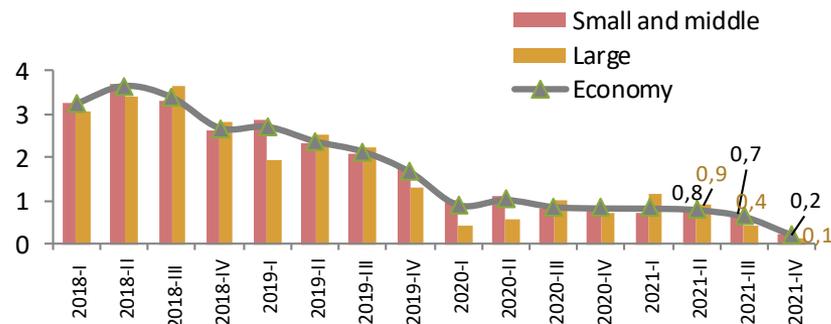
(share of enterprises applying for a loan from a bank)



Lending applications consideration



Share of enterprises that have been denied for a loan



In Q4 of 2021 **17,2%** of the surveyed enterprises applied to the bank for a loan, 17,0% of enterprises received a loan (or 98,8% of the number of those who applied for a loan). The share of loan refusals amounted to 0,2% of the total number of survey participants (1,2% of those who applied for a loan).

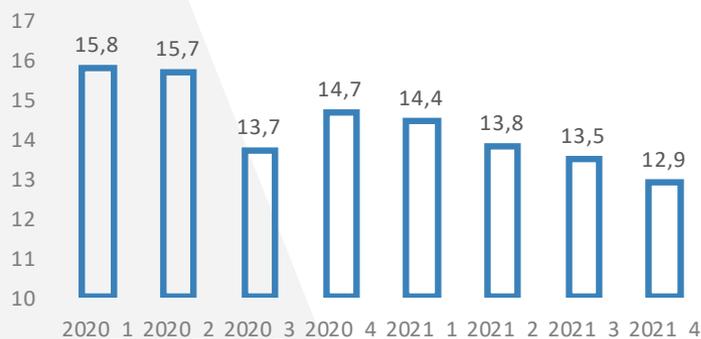
In Q1 2022 **15,2%** of the surveyed enterprises intend to apply for a loan. In the manufacturing industry the share of such enterprises is **24,4%**, in the mining industry – **9,9%**.

BANKING SYSTEM IMPACT ON THE REAL SECTOR OF THE ECONOMY

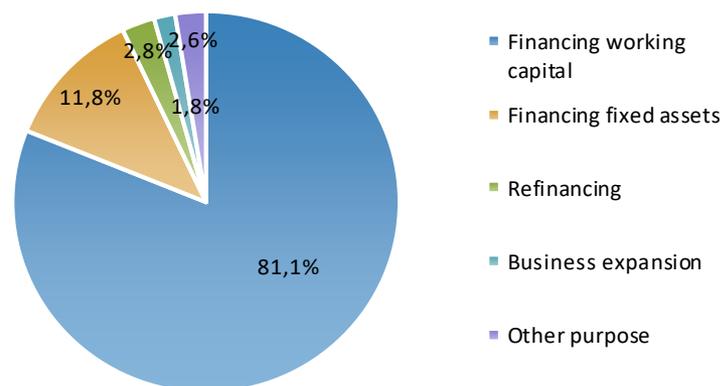
Debt burden estimations of enterprises *,%

Debt burden*	1%-20%	21%-30%	31%-40%	41%-50%	51%-60%	61%-70%	71%-80%	over 81%	no debt
share of enterprises, %	15,6	10,0	6,2	4,1	3,3	1,4	1,1	1,6	56,7

The weighted arithmetic mean value of the debt burden, %



The objectives of applying for loan in the past quarter, in %



In Q4 of 2021 56,7% of the enterprises that took part in the surveys **had no debt**. Most of those who had loans (15,6%) have a debt burden* within 20%. The weighted arithmetic average** value of the debt burden is **12,9%**.

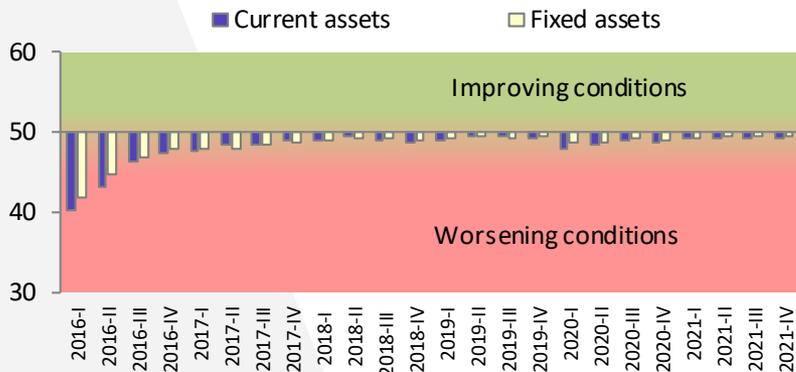
The vast majority of enterprises (**81,1%**) got loans to finance working capital (purchase of materials, raw materials, semi-finished products, etc.), 11,8% - to purchase fixed assets (purchase of buildings, structures, vehicles, equipment, 2,8% of enterprises - for refinancing purposes, 1,8% - for business expansion.

* Monthly payment / income from sales of products

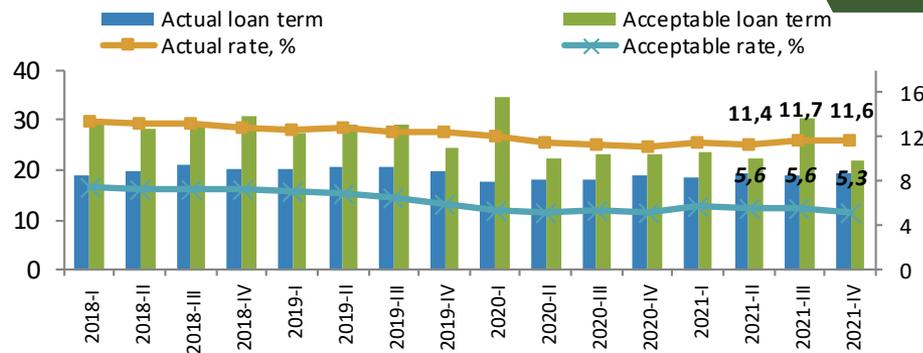
** Arithmetic weighted average is the average value of the interval, weighted by the share of enterprises.

BANKING SYSTEM IMPACT ON THE REAL SECTOR OF THE ECONOMY

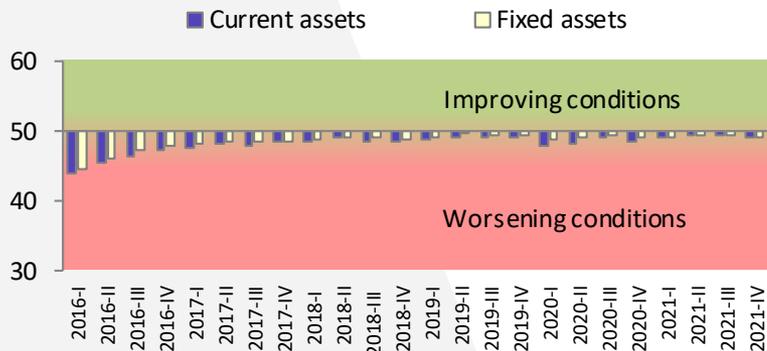
Price conditions



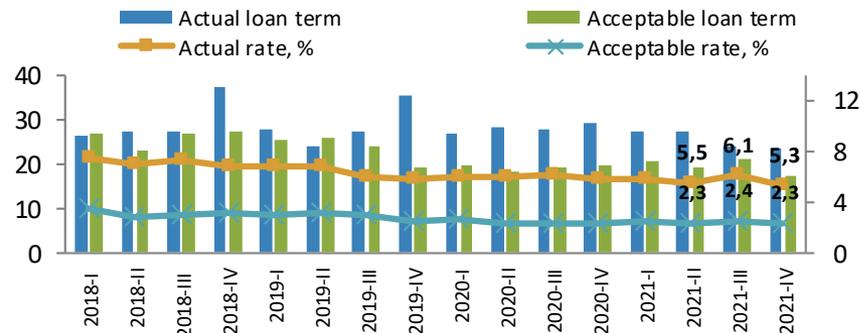
Loan terms and rates in tenges



Non-price conditions



Loan terms and rates in foreign currency

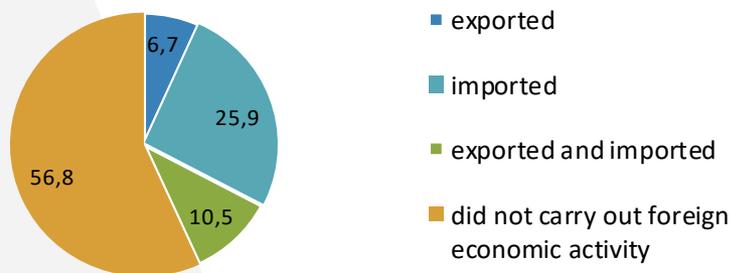


In Q4 of 2021 the assessments of enterprises regarding price (the level of interest rates on a loan, the amount of additional commissions) and non-price (the maximum size and term of the loan, requirements for the financial condition of the borrower, requirements for collateral) improved slightly, but remained negative.

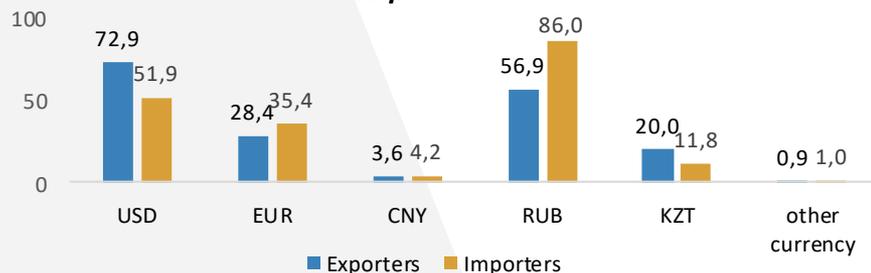
The average interest rates on loans received by the survey participants were **11,6%** in tenges and **5,3%** in foreign currency (11,7% and 6,1% in the previous quarter, respectively). According to enterprises, the acceptable interest rate for them on loans in tenges should be 5,3%, and on loans in foreign currency – 2,3%.

FOREIGN ECONOMIC ACTIVITIES OF ENTERPRISES (FEA)

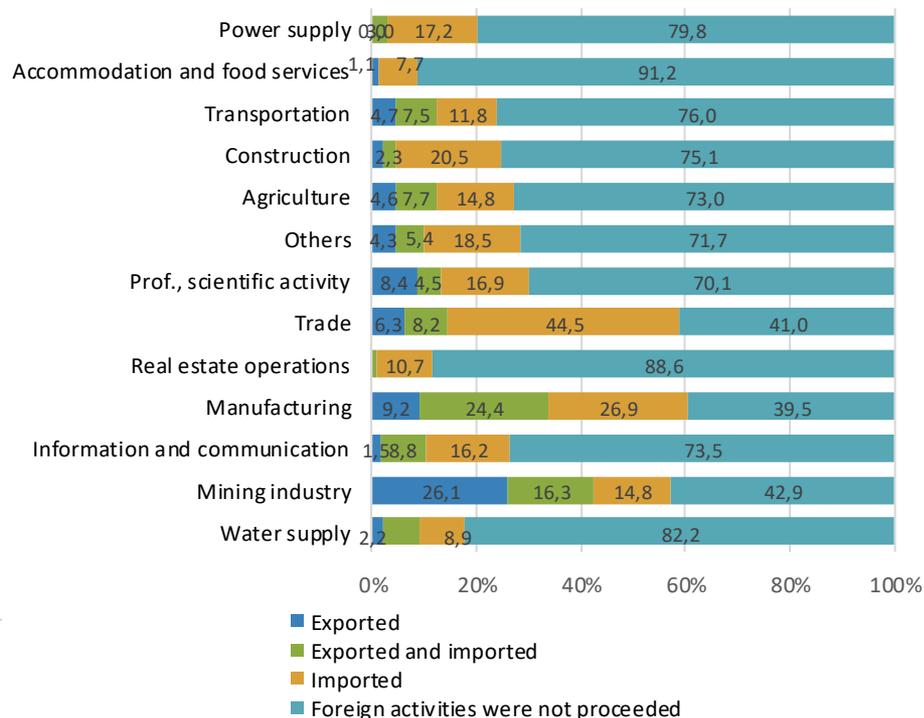
Implementation of foreign economic activity in the past quarter, the share of enterprises in %



Use of currency in calculations, share of enterprises in %



Foreign economic activity by activity type, share of enterprises in %

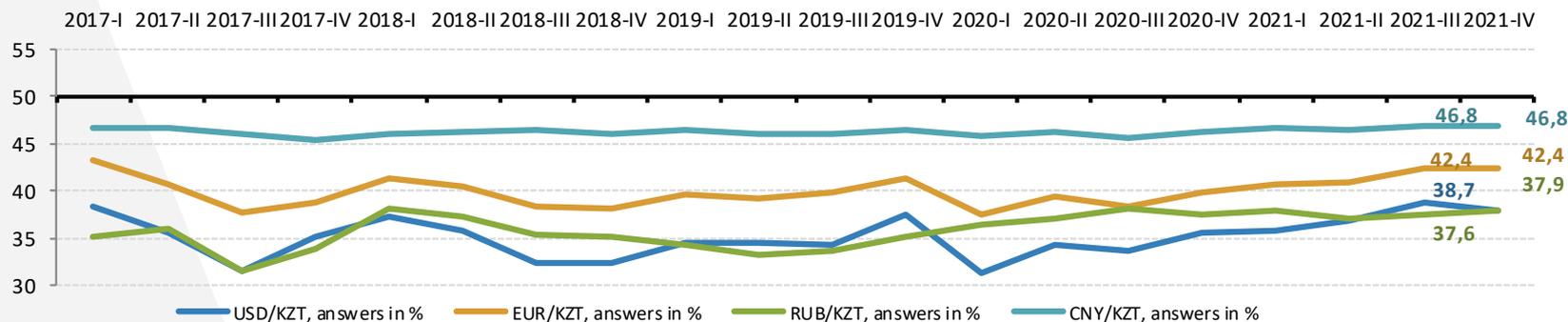


In Q4 of 2021 **25,9%** of respondents imported products to run their business, **6,7%** exported, **10,5%** exported and imported, and the vast majority (**56,8%**) had not foreign economic activity. The largest share of enterprises that exported products was in the mining industry (**26,1%**), the largest share of enterprises that imported products was in trade (**44,5%**). In the manufacturing industry the largest share of enterprises engaged in foreign economic activity.

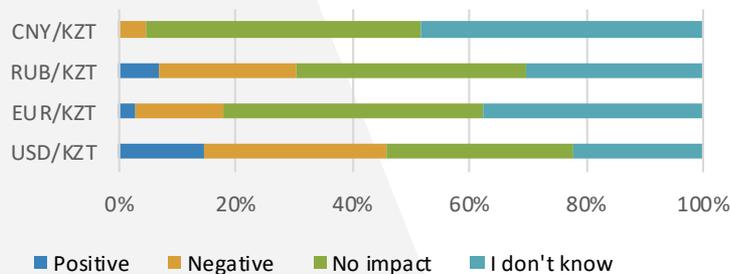
In settlements with foreign partners, exporters more often use the US dollar (**72,9% of exporters**), importers use the Russian ruble more (**86,0 of importers**). The British pound sterling, Swiss franc, Kyrgyz som and Turkish lira were also indicated as other currencies used in the settlements.

IMPACT OF EXCHANGE RATE CHANGES

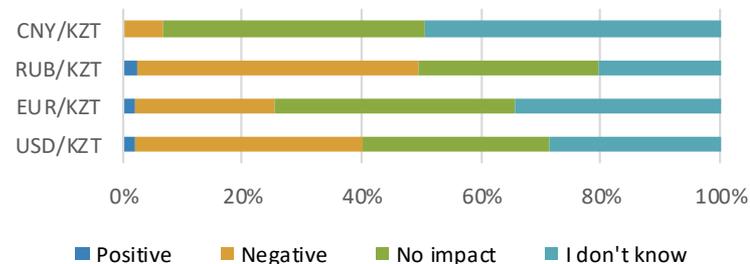
Dynamics of the impact of changes in the exchange rate, DI *



Impact of the exchange rate on the economic activities of exporters in Q4 2021

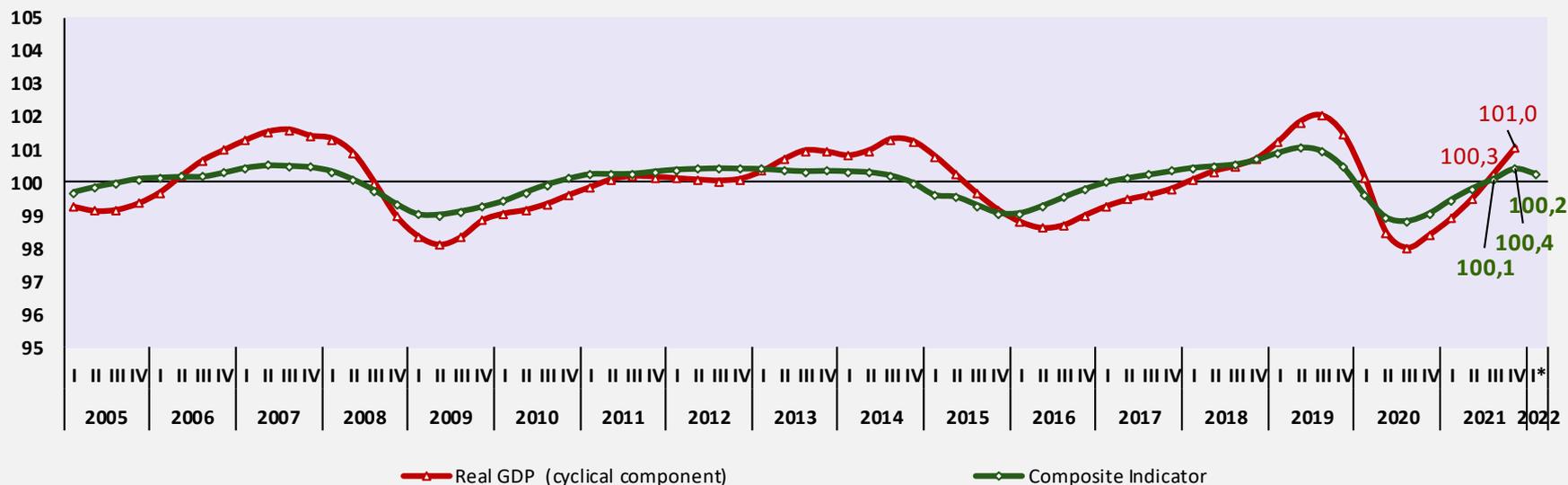


Impact of the exchange rate on the economic activity of importers in Q4 2021



In Q4 of 2021 the negative impact on the economic activity of enterprises from exchanges in the RUB/KZT exchange rate decreased, while the impact of the EUR/KZT and CNY/KZT pairs remained unchanged. Enterprises experience the least negative impact on their economic activities from the CNY/KZT exchange rate. The positive impact from the exchange rate in Q4 was indicated by exporters rather importers. RUB/KZT exchange rate had a significant negative impact on importers.

COMPOSITE LEADING INDICATOR*



In Q4 of 2021 the dynamics of the composite leading indicator (CLI), which is an aggregated assessment of surveys of enterprises in the real sector, demonstrates that economic activity in the real sector is continuing to recover. CLI increased compared to the previous quarter and amounted to 100,4.

The dynamics of CLI was positively affected by the dynamics of world energy prices, demand for final products, and a decrease in the share of enterprises with a critical financial condition. In Q1 of 2022 a slowdown in the pace of recovery is expected (CLI is expected to be 100,2). Enterprises expect a slowdown in the growth of prices for raw materials and materials and an increase in demand for final products. At the same time, a slowdown in demand in agriculture is expected.

- A composite leading indicator is used to identify turning points in the business cycle and provides good quality information about the state and directions of trends in the economic activity. A composite leading indicator reflects a summarized evaluation of opinions of managers of the interviewed enterprises regarding the existing and anticipated situation in their enterprises and possesses the forward-looking feature of the real GDP behavior for 1-2 quarters. Construction of CLI is based on the OECD methodology («OECD System of Composite Leading Indicators, Methodology Guideline», OECD 2012).

** The CLI parameters for Q1 2022 are calculated on the basis of expectations among enterprises in the real sector that participated in the survey.

- The diffusion index (DI) as reflected in tables and in figures is calculated as a sum of positive responses and a half of “no change” responses. This index is a generalized indicator which characterizes the behavior of the reviewed indicator. If its value is above 50 – this means a positive change, if it is below 50, then the change is negative. In doing so, the further (the higher) the value of the diffusion index deviates from 50, the higher are the rates of change (increase or decrease) of the indicator.
- The indicator of “an acceptable interest rate on bank loans” is calculated as the average of interest rates indicated by enterprises participating in the monitoring process as acceptable rates for these enterprises in terms of the existing level of profitability of production.
- Numbers reflecting financial ratios are provided as average values calculated based on the whole sample of interviewed enterprises as well as broken down by sector, where necessary, based on estimates of the quarter-end balance sheet numbers received from enterprises. In doing so, the evaluation data as well as the averages calculated on their basis are not aiming at obtaining the absolute precision of their values (since they are not the reporting ones) but rather serve for obtaining updated estimates and for analyzing the trends of the change in the state of the non-financial sector of the economy and its sectors.
- Discriminant analysis allows to identify the most informative indicators of the financial condition of the enterprise and determine the approach of a crisis situation at the enterprise, and thus classify them according to the degree of reliability. The distribution of enterprises into groups (stable, normal and critical) is carried out using classification functions, including 3 financial indicators: the income growth rate from sales of products per employee, the coefficient of financial independence and the equity capital growth rate. Details in the economic research <https://www.nationalbank.kz/file/download/9013>
- The composite indicator (CLI) possesses the forward-looking feature of the real GDP behavior for 1-2 quarters. The time series of the CLI and the real GDP (in terms of prices of the year 2005) are cleared of seasonality and do not contain the trend, i.e. they only include a cyclical component as determined by short-term fluctuations of the economic market environment. For comparability purposes, the resulting cyclical components are standardized, i.e. they are reduced to one (non-dimensional) unit of measurement.
- The CLI serves to reflect short-term development trends in the real sector of the economy as a whole. It possesses the following features: 1) it has a forward-looking nature; 2) it reflects a cyclical nature in the development of the real sector of the economy; 3) it is quickly designed since it is built on the basis of on-the-spot interviews of enterprises.
- Out of indicators built up based on interviews of enterprises, the following leading indicators were included as the CI components:
 - 1) DI changes in demand for final products in sectors of the economy
 - 2) DI changes in prices for final products of enterprises in sectors of the economy
 - 3) Credit activity indicator: share of enterprises intending to obtain a loan
 - 4) DI changes in the level of utilization of production facilities;
 - 5) DI changes in average wages;
 - 6) DI changes in inventories

METHODOLOGICAL COMMENTS