



SIGNIFICANT DEVELOPMENT INDICATORS OF INNOVATIVE ACTIVITY OF INDUSTRIAL SECTORS IN THE CONTEXT OF MODERNIZATION OF NATIONAL ECONOMY

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ABSTRACT

The article analyses the significant development indicators of innovative activity of the Republic of Uzbekistan for 2014-2022 years. Moreover, the complete information about the volume of production of innovative products of metallurgical, chemical and petrochemical industry, light and food industry enterprises for recent years, has been covered.

KEY WORDS: *innovative activity, modernization, localization program, macroeconomic research, innovative product, innovative active networks, new product.*

As a result of the fundamental reforms implemented in our republic, modernization of the economy, technical and technological re-equipment of production, development of business activities based on the localization program, filling the domestic market with import-substituting and export-oriented goods, and increasing the income and employment of the population are considered as one of the important directions. This, in turn, serves to develop innovative activities and increase potential in our country. As a result, the number of enterprises and organizations producing innovative products and services in our country is increasing year by year. However, the ongoing reforms for the modernization of production require not only the updating of technologies used in enterprises, but also an innovative approach to the organization of management.

In this work, based on the available data, the important indicators of the development of innovation activities in Uzbekistan in 2014-2022 were analyzed.

Official statistics, collections and periodicals of the State Statistics Committee of the Republic of Uzbekistan, collections and analytical references published by the Institute of Forecasting and Macroeconomic Research were widely used as the database of the analysis.

On the basis of the above, in order to give a general assessment of the organization of innovative activity in our republic and the process of its development, the dynamics of changes in enterprises that produced products, works, and services during 2014-2022 were analyzed. According to the conducted analyses, enterprises producing innovative products, works, and services in our country increased by 8.5 times in the next 8-9 years. That is, we can see that their number was 289 in 2014, and it will reach 2374 by 2022.¹

The share of innovative goods, works and services in the total volume of sold products was 2.9% in 2014, 3.2% in 2016, and 5.8% in 2020. The share of innovative products sold in 2022 was 7.3%, which is an increase of about 0.7% compared to 2020 (Table 1)

¹Author's development based on the information of the Statistical Committee of the Republic of Uzbekistan (www.stat.uz)



Table 1
Dynamics of important indicators of the development of innovation activities in the Republic of Uzbekistan in 2014-2022²

No	Indicators	2014		2016		2018		2020		2022	
		Total	Industry	Total	Industry	Total	Industry	Total	Industry	Total	Industry
1.	Share of innovative products in the total volume of sold products, %	2,9	4.5	3.2	3.9	5.8	8.4	6.5	8.4	7.3	9.2
2.	Growth rate of the volume of sold innovative goods, works and services, %	100	100	62.3	54.6	126,4	130.7	116.4	125.4	132.8	136.2
3.	The share of organizations' own funds in the total costs spent on innovation, %	60.5	74.9	70.6	75.2	68.4	54.0	36.8	31.0	48.6	53.5
4.	Cost ratio for innovation	0.014	0.012	0.005	0.004	0.003	0.005	0.026	0.043	0.025	0.041
5.	Growth rate of the volume of expenses for innovation, %	100	100	121.4	63.8	73.0	122.4	72.0	91.1	81.0	95.4
6.	Share of innovative active enterprises	0.13	0.37	0.07	0.25	0.07	0.23	0.35	1.29	0.4	1.75
7.	The number of introduced technological innovations corresponding to the contribution of each innovation-active enterprise	2.2	3.5	4.4	3.5	3.8	3.9	1.7	1.6	3.2	2.5
8.	Level of cooperation in scientific research	25.5	15.5	15.8	19.3	8.8	16.3	9.2	4.5	12.6	4.2

Innovative products and services worth 18543.3 billion soums were produced by 2171 enterprises in our republic . During this period, they introduced 1946 technological innovations. However, the share of innovatively active enterprises is only 0.34 percent, and the coefficient of introduction of innovations into the relevant sectors or industries is only 1.2 (Figure 1). The share of export of innovative products in the total export volume is only 1.46 percent.

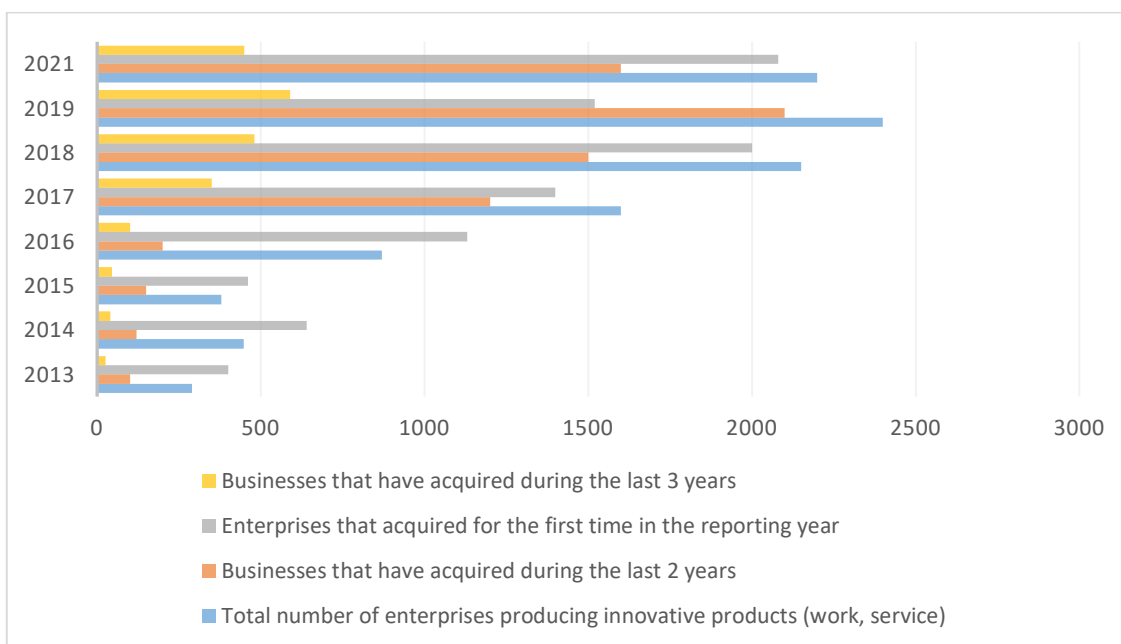


Figure 1. Information about enterprises and organizations that produced innovative products (works, services) in 2013-2021³

²This table was prepared according to the results of the analysis carried out by the author based on the official statistical data, collections and periodicals of the State Statistical Committee of the Republic of Uzbekistan and analytical references.

³Author's calculations based on the information of the State Statistics Committee of the Republic of Uzbekistan.



At this point, it should be noted that 70-90 percent of the products produced in advanced developed foreign countries are taken at the expense of the development of innovation activities.

The share of innovative products of highly innovative active industries in 2019 was 11.1% of the total volume of innovative products produced by industrial enterprises. At the same time, the share of innovative products in the total volume of products of medium innovative active industries was 15.3%.

Enterprises that exported innovative products in the largest amount were enterprises of medium innovative active industries. In 2019, the share of innovative products in the export volume of innovative industrial products was 51.1%, and the share of large-scale innovative products was 6.9%.

According to the types and level of the innovative potential of the developed enterprise, the levels of innovative activity of the enterprises were determined based on 4 high levels, medium levels, lower levels and the lowest levels. In the total volume of industrial production in 2021, the share of highly innovative active and medium innovative active industrial sectors based on total scientific achievements was 13.91 percent (Table 2).

Table 2

Relative weight of highly innovative and medium innovative active industries in the total volume of industrial production, (in %)⁴

Industrial sectors	2014	2015	2016	2017	2018	2019	2020	2021
Industry, total	100	100	100	100	100	100	100	100
Highly innovative active networks								
ICT, computing equipment industry	0.188	0.122	0.154	0.152	0.123	0.078	0.099	0.033
Production of equipment for medicine, physiology and biology	0.009	0.003	0.001	0.001	0.001	0.001	0.001	0.003
Production of optical and optical-mechanical tools and equipment	0.013	0.012	0.016	0.019	0.015	0.005	0.004	0.002
Production of equipment for control and regulation of technological processes	0.035	0.194	0.025	0.060	0.019	0.025	0.039	0.027
Production of food industry and mechanical measuring instruments	0.007	0.005	0.004	0.003	0.003	0.002	0.003	0.003
Chemical and pharmaceutical industry	0.314	0.168	0.199	0.267	0.301	0.349	0.656	0.751
Microbiology industry	0.256	0.112	0.123	0.031	0.045	0.012	0.008	0.028
Medium innovative active networks								
Chemical fiber and yarn industry	0.054	0.020	0.015	0.021	0.021	0.035	0.048	0.027
Production of trailers for automobile tractors	3,548	7,184	8,391	9,024	9,798	9,617	8,910	11,704
Agricultural machinery	0.622	0.176	0.141	0.118	0.104	0.094	0.208	0.164
Total highly innovative active and medium innovative active industries	6.1	9.4	10.1	11.1	11.4	11.5	10.9	13.9

In 2021, the share of innovative products in the total volume of manufactured products was 6.5 percent, and the share of innovative product exports in the total volume of innovative products was 17.6 percent. In some sectors of the economy, the share of innovative products in the total volume of products is very low, this indicator was only 0.003 percent in the electronics sector in 2021 .

In recent years, the volume of production of innovative products of metallurgical, chemical and petrochemical industry, light and food industry enterprises has increased significantly. The share of the fuel industry in the total production of innovative products has decreased. There was a tendency to differentiate the production of new product types by industries.

⁴This table was prepared based on the results of the analysis carried out by the author based on the official statistical data, collections and periodicals of the State Statistics Committee of the Republic of Uzbekistan, collections and analytical references published by the Institute of Forecasting and Macroeconomic Research.



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