



Ukraine`s Innovation Activity in the Context of Emerging Global Trends in the Implementation of Innovations

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Innovative activity reflects the readiness for continuous qualitative changes based on the implementation and commercialization of innovations in order to increase the competitiveness of the economy. The dynamic development of digital technologies, the introduction of artificial intelligence and other innovative solutions significantly changes the mechanisms for the formation of competitive advantages. In this context, innovations are one of the key factors in the transformation of the economy, increasing its competitiveness and ensuring long-term sustainability, and innovative activity becomes an important indicator of the economy's ability to adapt to global changes and form its own development trends. Key aspects in assessing innovative activity at the macroeconomic level are taking into account the intensity of the introduction of innovations, their effectiveness and the scale of changes.

The problem of introducing innovations is particularly relevant for Ukraine, whose economy needs rapid recovery, operating in conditions of large-scale transformational challenges caused by the destruction of the production and infrastructure base as a result of the war, migration processes, and resource limitations. At the same time, these challenges create the need to transition from a predominantly resource-based development model to an innovation-oriented model of recovery and economic growth, capable of ensuring technological renewal, high-quality development of human capital, and Ukraine's integration into global innovation chains.

It is advisable to assess Ukraine's innovation activity not in isolation, but in the context of the development of global trends in the implementation of innovations, comparing national indicators with trends in global innovation dynamics and determining Ukraine's position in the global innovation space. Such an approach will help identify achievements, problem areas and promising areas of development, which will provide the opportunity to form its own innovation advantages and Ukraine's participation in creating global technological trends.

When assessing Ukraine's innovation activity in the context of the formation of global trends in the implementation of innovations, it is advisable to take into account the following aspects:

- **global-technological** (characterized by the acceleration of technological changes, the spread of AI, digitalization, robotization, new production technologies, the transition to a low-carbon economy);
- **innovation-economic** (implies the need to consider innovation activity not only through the number of technologies created or the amount of funding for scientific research, but primarily through their ability to transform into new products, business models, etc.);
- **institutional** (formation of appropriate regulatory and legal regulation, a system for protecting intellectual property, a high-quality innovation policy of the state, effective interaction of the state, business, science and education);
- **financial and investment** (ensuring proper stimulation of innovation activity through financial instruments, availability of funding for research and development);
- **human and educational and scientific** (the presence of highly qualified researchers, engineers, IT specialists, as well as entrepreneurs and managers capable of creating and commercializing new knowledge);
- **international integration** (participation of scientists and entrepreneurs in international innovation and research programs, global value chains);
- **security and recovery** (development of defense and energy technologies, cybersecurity, other innovations to address wartime needs and form a technological basis for post-war recovery).

According to the Global Innovation Index rating, in 2025, Ukraine ranked 66th among 139 countries and 35th among 39 European economies. In particular, in terms of the regulatory environment, Ukraine ranked 106th, business environment - 89th, human capital and research - 65th, education - 48th, information and communication technologies - 23rd. In 2024, Ukraine ranked 60th among 133 countries and 34th among 39 European economies, and in 2023, respectively, 55th among 132 and 34th among 39. In the annual ranking of startup ecosystems Global Startup Ecosystem Index 2025 from Startup Blink (Global Center for Startups and Innovations), Ukraine ranked 42nd, improving its ranking (in 2024 - 46th place) and entering the top 10 countries in Eastern Europe (8th place). The top 1000 cities of the Global Startup Ecosystem Index 2025 include the following Ukrainian cities: Kyiv (68th place), Lviv (404), Kharkiv (618).

The methodological basis of the study of innovation activity in Ukraine is based on an up-to-date statistical base and adaptation to European standards, on a combination of systemic and institutional approaches, comprehensiveness and objectivity, which makes it possible to assess the current state and problems of innovation implementation in Ukraine, to identify key areas of integration of the Ukrainian economy into a single European space.

Ukraine's innovation activity is assessed through its positioning, taking into account the ability to take into account global technological trends, global innovation dynamics when forming internal approaches to the implementation of innovations. The methodology provides for a logical combination of such components as innovation potential (resources and prerequisites), innovation activity (primarily taking into account the intensity of use of available resources for the creation, implementation and dissemination of innovations), and the effectiveness of innovation implementation (to what extent innovation activity is transformed into specific results).

The overall analytical assessment of global trends in the implementation of a wide range of innovations in various sectors of the economy is carried out using the Global Innovation Index (GII), developed in 2007 by Professor Sumitra Dutta. Its construction is based on sub-indices of innovation investment and innovation results, as well as the overall GII score, which allows assessing the results of a country's innovation activity against the background of other countries. Structural approaches to building the GII are being improved, ensuring the transition from a static assessment to a dynamic innovation monitoring system.

In 2025, a comprehensive analysis of innovation ecosystems was conducted in 139 countries around the world using the GII, and its structural components were 78 indicators, which made it possible to track innovation trends at the global level (taking into account investment models, the development of technological progress, the level of investment implementation, socio-economic impact).

Comparing innovation implementation indicators in Ukraine with those of leading global nations makes it possible to identify existing gaps as well as opportunities to adopt best practices Ukraine's innovation activity requires a systemic analysis that takes into account the interactions between the state, the business sector, science, and education. Within a systemic approach to assessing innovation activity, it is advisable to combine the following components: identifying global innovation trends and establishing a system of indicators for innovation activity; analyzing resource and scientific-technical potential, digital and technological transformation, and business innovation activity; assessing Ukraine's innovation activity, comparing the resulting metrics with those of other countries, and identifying areas of innovation gaps and innovation leadership; formulating strategic priorities for Ukraine's innovation development. This approach differs by shifting the focus from merely determining Ukraine's ranking position to evaluating its capacity to adopt, potentially shape, and disseminate global innovation trends.



Global Innovation Index 2025: Innovation at a Crossroads. World Intellectual Property Organization. <https://www.wipo.int/publications/en/details.jsp?id=4807>;

The Global Startup Ecosystem Report 2026. Startup Blink. <https://startupgenome.com/report/the-global-startup-ecosystem-report-2026/introduction>.

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