

**State Organization «Institute of Market and Economic&Ecological Researches
of the National Academy of Sciences of Ukraine»**

**Summary of scientific novelty for the research
«Dominants of the Investment-Innovation Policy for Environmental
Management of the National Economy»**

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The work was carried out at the request of the Ministry for Development of Economy, Trade, and Agriculture of Ukraine (letter No. 3031-05/40775-07 dated 04.10.2019), the Ministry of Education and Science of Ukraine (letter No. 1/11-9406 dated 28.10.2019), the Department of Ecology and Natural Resources of the Odesa Regional State Administration (letter No. 5008/06-17/4863 dated 03.10.2019), and the Department of Agrarian Policy of the Odesa Regional State Administration (letter No. 1010/02-18/827 dated 04.10.2019).

The scientific novelty of the most significant research results is as follows:

Within scientific&methodological aspects:

- Developed a methodological framework for evaluating state investment-innovation policy in environmental management based on sustainable development principles, which includes an expanded system of national indicators within SDGs 2, 6, 7, 8, 9, 12, and 15, integrating European and author-specific economic-environmental metrics. These indicators are adapted both for SDG monitoring and for assessing investment-innovation and natural resource potentials of the economy with a focus on structural and sectoral dimensions. The methodology also includes a comprehensive qualitative and quantitative expert evaluation of the degree to which the policy dominants are implemented at domestic and international levels, forming an analytical basis for adjusting priorities and justifying directions, methods, and mechanisms of implementation in Ukraine.

- Theoretical and methodological approaches have been developed for the comprehensive evaluation of regional investment-innovation policies in environmental management, incorporating elements of best European practices. These approaches are based on the philosophy of the "quadruple helix" model in environmental management, the smart specialization of regions, and a methodology for evaluating innovation-investment and natural resource potentials. The research is conducted across four groups of factors: economic activity and investment potential in environmental protection (Factor 1), scientific and innovation potential in environmental management (Factor 2), resource and ecological productivity in accordance with SDGs (Factor 3), and the natural resource condition of regions

(Factor 4).

- A scientific-methodological approach has been developed to activate ecological activities in industrial parks in Ukraine. This approach identifies the level of ecological component integration into industrial park concepts through a four-tier comparative analysis, including the degree of reflection of economic, social, and environmental aspects in the formulation of goals, objectives, and principles; the justification of temporal and spatial dimensions, with ecological considerations in the park's development plan; the visualization of relevant organizational structures in descriptive models; and the complexity of analyzing factors influencing expected results across financial, social-economic, and ecological dimensions.

- Theoretical foundations for diagnosing dominants in investment-innovation environmental policy have been improved by defining goals, objectives, and diagnostic principles. Five key dominants of the policy, interconnected with Ukraine's SDGs, were identified and decomposed into 17 components and 38 tasks, forming a "target framework" for implementing strategic priorities for investment-innovation policy based on sustainability concepts and the "quadruple helix" innovation model.

- A methodological framework has been developed to systematize and rank dominants in investment-innovation environmental policy by their degree of implementation in Ukraine. Using the author's methodology, key challenges in implementing strategic priorities have been identified, along with solutions focusing on stimulating eco-friendly production, encouraging investments in waste management, and fostering cross-sectoral partnerships.

- Scientific insights into responsible investment in environmental management have been expanded through a classification of responsible investment types based on criteria such as investment categories, investment motives, investor types, priority directions, and the essential characteristics of different groups.

Within scientific&practical aspects:

- Theoretical approaches and practical recommendations have been improved for forming the institutional basis of investment-innovation policy in rational environmental management of the national economy. This is based on identifying barriers and constraints in international investment-innovation policy, implementing global practices of sustainable, responsible, and green investment, and determining economic-ecological strategic priorities for transforming mechanisms and tools in the domestic economy.

- The feasibility of applying aspects of Helix modeling in its evolutionary context to the functioning of industrial and natural parks in Ukraine has been substantiated. This aims to develop innovative economic-ecological activities, with SWOT analysis results guiding the creation of eco-industrial parks based on existing

industrial parks, in collaboration with specialized scientific and technology parks, and within the context of innovative development of national natural parks.

- A scientific approach has been developed for organizing the collection, processing, storage, and use of information on investment-innovation environmental policy. This approach incorporates modern digitization techniques in the business environment and employs benchmarking methods within the country's information support system.

- Principles for selecting strategic priorities for national investment-innovation policy in rational environmental management at the regional level have been expanded. These principles combine the "quadruple helix" model in environmental management with smart specialization and include economic differentiation, investment orientation towards priority clusters with realistic growth potentials, establishing a basis using natural assets and resources accessible to specific regions, prioritizing inclusive stakeholder engagement, covering a wide range of innovations in environmental management, and maintaining a reliable system of monitoring, evaluation, and updates to selected development objectives.

- A methodological approach to systematizing, processing, and grouping data from statistical monitoring of the agro-sector's innovation development has been improved. This allows for organizing and systematizing results to comprehensively characterize and analyze the state and strategy of innovation development in the agricultural sector.

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