

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

**Summary of scientific novelty for the research
“Formation and use of natural resource assets of the recreational and
tourist sphere”**

(№0120U100159, performance period: 01.01.2020 – 31.12.2021)

The following scientific results have been obtained:

Originally developed:

– *a theoretical and methodological approach to determining the economic content of natural resource assets of the recreational and tourist sphere has been developed, which consists in identifying them as resources (in the evolutionary chain “natural resources – natural resource potential – natural capital – natural assets”), from which benefit is obtained from their involvement in economic activity, as well as its justification based on the results of the analysis of the factors of formation of these assets as the basis of national wealth and sustainable development of the country, as well as the principles of state management of them;*

– *a scientific and methodological approach has been developed to assess the degree of implementation of the Sustainable Development Goals, by determining an integral indicator of the resilience of the implementation of the SDGs in Ukraine, relevant to recreational tourism activities, in particular using the example of Goal 3 “Good Health and Well-being”, where natural resource assets are defined as an important component of well-being in its broad sense; which allows prioritizing manifestations of the relationship between tourist and recreational activities and the environment, in particular within the framework of harmonization, using elements of graph theory, the structure of rural green tourism goals and the SDGs;*

Improved:

– *the involvement of natural assets in the development of the domestic market of recreational and tourist services during the coronavirus pandemic has been justified within the framework of an optimistic scenario, under which the positive dynamics of the recreational industry indicators for the period 2012–2019 and until 2021 are maintained; as well as on state support for the development of the recreational industry by promoting the involvement and accounting of inactive natural resources and redistributing the share of accounted natural assets in favor of the recreational industry to ensure sustainable development in Ukraine;*

– *a conceptual relationship between natural resource and other assets of the recreational and tourism industry, which are used in the formation of recreational and tourism services, taking into account such production guidelines as safety, quality (which includes the criterion of comfort in conditions of isolation during the pandemic crisis), as well as efficiency as an unconditional correspondence to the financial and economic essence of the assets;*

– *an approximation optimization model* has been developed to ensure the adoption and implementation of management decisions in the field of recreational and tourist activities, which allows assessing the use of natural resource assets integrated into the system of recreational and tourist assets in order to take into account heterogeneous factors in a single system, as well as to determine investment directions in accordance with promising types of activity, taking into account the range of changes in the model parameters that make up its objective function and the system of constraints in accordance with the aspirations of recreational and tourist establishments to maximize their income;

– *the place and role of natural resource assets* in the classification of natural resources is determined, namely: from the point of view of their formation – through their connection with potential resources that cannot be used profitably in the current economic conditions, and, accordingly, through their connection with the concepts of “natural resource potential” and “reserve and stock of natural resources”; and from the point of view of their use – through their connection with actual resources that are used or can be used profitably;

Have been further developed:

– *the feasibility of using the linear economic-mathematical programming model* in the context of assessing the formation of natural assets of a recreational area based on an integrated approach to taking into account environmental restrictions in the development of areas of recreational and tourist activity has been substantiated;

– *organizational and economic approaches* to taking into account recreational natural assets in the “input – output” model depending on the dynamics of the structure of recreational assets, as well as on the assessment of the necessary use of natural assets for recreational purposes according to the principle of inclusiveness; a scientific and methodological approach to diversifying the formation of recreational industry assets by redistributing the costs of resource-intensive industries, taking into account the results of generalizing and comparing world experience in the field of recreational and tourism activities, namely: relevant regulatory documents, economic indicators related to recreation and tourism of individual European countries, including within the framework of the analysis of international ratings by natural capital indicators;

– *a comprehensive approach to managing natural assets* of the recreational and tourism sector, taking into account, along with natural resource assets, recreational ecosystem services, which are essentially different from environmental services and are interconnected with them depending on the types of their economic value, starting with the directly used one and ending with its existential form; a set of components of institutional support for the reproduction of natural resource assets of the recreational and tourist sphere has been proposed, in particular such as support for “green” investments, preparation of environmentally relevant management reports, formation of environmental funds, etc.; which, along with evaluation and programming, is a functional component of the proposed conceptual model of natural resource asset management, which at the theoretical and methodological level ensures the implementation of the ultimate goal –

satisfaction of the recreational and tourist needs of individuals;

– *the factors under which natural resources are identified as assets* in the process of their formation and use are substantiated, namely, those that determine: the need for profitability in the process of their use (economic factor); the loss of the ability of a natural resource to be considered an asset due to pollution (ecological factor); the importance of natural assets as a component of well-being (social factor); the human right to use a natural resource as an initial necessary condition for its identification as an asset (legal factor);

– *the feasibility of diversifying the use of natural resources* in the recreational and tourist sector as a direction for the formation and use of its natural resource assets has been substantiated, the tools for ensuring which are based on program-targeted, cluster and digitalization approaches, and consist of the following: strategizing the development of a recreational area taking into account the interests of its stakeholders and the specifics of natural resources; conglomerate clustering, which takes into account the interests of authorities, communities and the population in the context of forms and rights of ownership of natural resources; interactive cadastral map within the relevant state registers.

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