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Bibliometric Analysis of Infrastructure and Sustainable Infrastructure Projects: Implications for Ukraine's Reconstruction and Sustainable Development

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In the current realities of a full-scale war, economic, political and environmental crisis in Ukraine, the issue of post-war recovery and further sustainable economic development is highly relevant and requires significant attention from both the Ukrainian community and international partners. The path to sustainable recovery depends to a large extent on the end of the war, successful joint reconstruction efforts and further international support.

Ukraine considers infrastructure to be one of the key drivers of effective economic growth, which contributes to the welfare of the population, and therefore infrastructure facilities have become the main target of attacks by the aggressor. According to the "Report on direct damage to infrastructure from destruction as a result of russia's military aggression against Ukraine as of the beginning of 2024" since the beginning of hostilities, the total amount of direct losses from damage and destruction of transport infrastructure is \$ 36.8 billion; 25.4 thousand km of roads and 344 bridges were destroyed, which is estimated at \$ 26.7 billion in losses in the road sector and \$ 2.6 billion in bridge infrastructure; direct losses in the railway industry amount to \$ 4.3 billion, approximately \$ 2.04 billion in the aviation sector, \$ 0.85 billion in the port sector; among telecom operators - \$ 510 million, in addition to the damage in the energy sector - \$ 9 billion.

The reconstruction of such facilities through the implementation of infrastructure projects is not just a task, but an important mission and one of the strategic directions of eco-

conomic development, new opportunities for regional development, energy independence, social well-being of the country and the population, strengthening of the state, and thus further sustainable and stable development of Ukraine. This is a significant opportunity to create a modern, inclusive and sustainable infrastructure that will meet the needs of people in the 21st century and the challenges of the modern world, which will contribute to the country's better integration into the international community.

Nevertheless, a thorough and systematic analysis of any phenomenon is crucial. In the research, the main theoretical principles of infrastructure projects as a driver for the sustainable development of Ukraine are presented. In the scope of researched issue bibliometrics analysis of the essence of the terms "infrastructure project" and "sustainable infrastructure project" was held.

The first stage of the research was held with the help of the built-in analysis tools of the Scopus database. It was identified around 9,481 scientific publications for the query "infrastructure project" and 55 scientific publications for "sustainable infrastructure project" in the search field with a search filter in article titles, abstracts, keywords, which was carried out using the built-in tools of the Scopus database. The second stage of the study was a deeper analysis of the concept of "infrastructure project" and "sustainable infrastructure project" using the VosViewer 1.6.20 software to build keyword relationships with further visualization and clustering separately for each keyword. Using the software, 35,239 keywords related to the concept of "infrastructure project" were generated, but only 568 keywords with a total frequency of use of at least twenty-five were selected for further analysis and accuracy of cluster formation.

The VosViewer analysis highlights the critical need for further research into infrastructure and sustainable infrastructure projects. This research should delve into various aspects, including project management strategies, investment analysis, public-private partnerships, decision-making processes, infrastructure sector analysis, sustainable infrastructure, social and economic impacts, and environmental and climate change considerations. By conducting a comprehensive study of these areas, it could be contributed to the development of more effective and sustainable infrastructure projects.