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### ESG map of regions: Ecological – Economic approach

**A. Adambekova**

*Al-Farabi Kazakh National University, Kazakhstan*

Achievement of sustainable development goals with the help of the implementation of a systematic approach to managing the resource potential of regions through sustainable development goals is one of the actual objectives in regional management. Mapping is known as an approach, which allows combining several data sources with different scaling. This study aims to develop regional resource provision map for creating sustainable development conditions. Multidisciplinary research is a valuable source of this research that allows to unit ESG criteria and their regional commitment through cartographic science tools. The methodology is presented in the form of a sequence of actions to draw up a resource supply map. Using the presented map of four regions of Kazakhstan confirms the validity of the scientific and applied methodology. The research outcomes contain proven arguments for the further research based on the issues of constructing integrated resource provision maps for the Kazakhstani regions. Key cartography approaches make it possible to form recommendations for similar maps use in terms of decision-making based on interregional interaction, taking into account resource potential, consisting of natural, labor, financial, and infrastructural capabilities of the regions and environmental risk assessments. Developed recommendations were tested with the help of Microsoft Power BI and SuperMap (laboratory of "Geoinformation Cartography" of Al-Farabi Kazakh National University).

### Biography

Ainur Adambekova, Doctor of Economic Sciences and Professor at Al-Farabi Kazakh National University (KazNU), is a leading expert in ecological and economic research. With a solid academic background and decades of experience, she has made significant contributions to sustainable development, particularly in regional environmental management and ecological-economic systems. Her pioneering work on ESG (Environmental, Social, and Governance) maps helps integrate environmental conservation with economic planning. Professor Adambekova is widely published in national and international journals and frequently presents at global scientific forums. She is recognized for applying scientific research to address practical ecological challenges. Her academic leadership extends to mentoring young researchers and advancing interdisciplinary collaboration. Through her scholarship and teaching, she continues to shape the dialogue on sustainability and economic development in Central Asia and beyond.