

The Project name: IRN №AP09259525 «Methodology of analysis and optimization of the rural county socio-economic model (based on the materials of the Northern Kazakhstan)».

Relevance: in Kazakhstan, more than 40% of the total population currently lives in rural areas, whose main source of income is agriculture or related economic activities. At the same time, the incomes of those employed in the agricultural sector are the lowest. For example, the wages of agricultural workers are slightly more than half of the average for all sectors of the economy. Therefore, the problem of poverty is primarily related to the rural population. In rural regions of the country, the limited availability of natural resources for agricultural production is one of the main factors limiting opportunities in the fight against poverty. There is a significant correlation between the level of well-being of the rural population and the availability of resources (land, water, productive animals, machines).

Currently, there is an acute lack of systematic research on optimizing socio-economic relations in rural counties of Northern Kazakhstan. Ways and means of integrating human, agroecological, social and market factors to form optimal socio-economic models of rural territorial systems, taking into account the modern conditions of Kazakhstan, require rethinking.

The practical significance of the expected results is to develop recommendations for the formation of optimal economic models of rural counties, regional socio-economic programs that contribute to improving the standard of living in rural areas, reducing unemployment and social tension, and optimizing migration flows.

The main problem addressed is the increase and alignment of the level of well-being of the rural population.

Purpose: to develop a methodology for analysis and measures to form an optimal socioeconomic model of rural counties.

The scientific and practical results obtained in 2021-2023:

- 1) methodological techniques and procedures for assessing resource availability and the uniformity of resource distribution among rural households;
- 2) methodological techniques and procedures for assessing the availability of economic resources, the level and uniformity of income distribution among the rural population of a rural county;
- 3) a set of equations to describe the relationship and quantify the impact of resource availability on household economic activity;
- 4) an economic and mathematical model for a comprehensive assessment of the economic resources of a rural county, a calculation and a comprehensive assessment of the economic potential of a rural county are given;
- 5) calculation and economic assessment of the most promising product brands and forms of organization of economic relations between individual farms in a rural county, the optimal economic model of a rural county;
- 6) recommendations on monitoring the uniformity of income distribution, growth processes and equalization of the level of well-being among the population of a rural county.

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List of publications and patents published under this project:

- 1) Kussaiynov, T.A. Methodology of selection of objects for social research// Economic Series of the Bulletin of the L.N. Gumilyov ENU. – 2021. – №3. – p.35- 48 (CQAFSHE MSHE RK). <https://doi.org/10.32523/2789-4320-2021-3-35-48>;
- 2) Kussaiynov, T.A. Agricultural cooperation from a historical perspective // Bulletin of "Turan" University. – 2021. – №4 (92). – p. 77-84 (CQAFSHE MSHE RK). <https://doi.org/10.46914/1562-2959-2021-1-4-77-84>;
- 3) Kussaiynov, T. Multi-Criteria Choice and Ranking of the Objects for Socio-Economic Studies // WSEAS Transactions on Business and Economics. – 2022. – Vol. 19. – p.1099-1106 (Scopus, percentile - 35). DOI: [10.37394/23207.2022.19.96](https://doi.org/10.37394/23207.2022.19.96);
- 4) Shaimerdenova A.K., Bulhairova Zh.S., Temirova A.B. Personal subsidiary farms of Damsinsky rural district of Akmola region: analysis of agricultural production // Problems of AgriMarket. – 2022. – №1. – pp.99-104. (CQAFSHEMSHERK). <https://doi.org/10.46666/2022-1.2708-9991.11>;
- 5) Kussaiynov, T., Assilov, B. The impact of technological innovations on labor productivity in crop production// Problems of AgriMarket. – 2022. – №3. – p.82-89 (CQAFSHE MSHE RK). <https://doi.org/10.46666/2022-3.2708-9991.09>;
- 6) Kussaiynov, T., Tokenova, S. Resource Endowment of Rural Areas: Indicators, Assessment Procedures// Journal of Environmental Management and Tourism. – 2022. – Vol.13 (7). – p.1859-1866. (Scopus, percentile - 44). [https://doi.org/10.14505/jemt.v13.7\(63\).06](https://doi.org/10.14505/jemt.v13.7(63).06);
- 7) Kussaiynov, T., Mussina, G., Tokenova, S., Mambetova, S. Production Diversification as a Tool for Agricultural Risk Management: The Case of Northern Kazakhstan // WSEAS Transactions on Business and Economics. – 2023. – Vol.20. – p.2457-2465. (Scopus, percentile - 35). DOI [10.37394/23207.2023.20.210](https://doi.org/10.37394/23207.2023.20.210).

Information for potential users: dissemination of the results of the work among potential users, the community of scientists and the general public will be carried out through the Extension system of S. Seifullin Kazakh Agrotechnical Research University and by highlighting the project results in the mass-media.