Volume: 20, No: S4(2023), pp. 489-495 ISSN: 1741-8984 (Print) ISSN: 1741-8992 (Online) www.migrationletters.com

Scientific and Practical Potential of the Framework Approach Concept in Mesoeconomics

Irina Sycheva¹, Ilyos Abdullayev², Meri Dzhikiya³, Sergey Zhiltsov⁴, Yan Vaslavskiy⁵

Abstract

The authors explore the theoretical foundations of mesoeconomics. The relevance of the publication is due, on the one hand, to the growing modern risks of the development of regional and national socio-economic systems, and, on the other, to the potential for reformatting interregional ties that ensure the safety and stability of the socio-natural system. The present study is based on the hypothesis of the key role of the framework approach to ensure balanced socio-economic development of a set of socio-natural complexes. Within the framework of the proposed hypothesis, the authors identify three key frameworks — ecological, economic and cultural-historical. The interrelation of development factors frameworks covers that *g0* beyond the region. enterprises/corporations, industries — cooperation, multiplicative socio-economic effects, import substitution that go beyond the region, corporations. At this stage of the study, the methods of scientific observation, expert assessments and factor analysis were used. The article includes a brief overview of the state of modern research in the field of mesoeconomics. Based on the conducted research, the authors, among other things, conclude that it is necessary to supplement the institutional approach with the concept of a framework approach. The framework approach is of particular importance for ensuring the goals of balanced spatial development and security of the country.

Keywords: mesoeconomics; framework approach; ecological and economic framework of the territory; security.

Introduction

The scientific and social relevance of research on the history, theory and practice of interrelations of economic actors at the mesoeconomical level is due to the objective need to solve modern problems: balanced spatial development of regions in conditions of uncertainty; advanced professional training of managerial, scientific and engineering personnel in the interests of developing new sectors of the economy; introducing novelty into the knowledge of economic processes.

The research is aimed at scientific substantiation of multiplicative socio-economic effects, including job creation, stimulation of scientific, technical and industrial potential of the

¹ Doctor of Economic Sciences, Professor, Polzunov Altai State Technical University, Barnaul, Russia, ORCID: https://orcid.org/0000-0001-9003-5845, madam.si4eva2010@yandex.ru

² Doctor of Economic Sciences, Professor, Urgench State University, Uzbekistan, ORCID: https://orcid.org/0000-0002-9601-7434, E-mail: aem735@mail.ru

³ Russian State Agrarian University - Moscow Timiryazev Agricultural Academy, Moscow, Russian Federation, ORCID: https://orcid.org/0000-0001-8600-013X, E-mail: marydzhikia@list.ru

⁴ PhD in Economics, Senior Lecturer, RUDN University, Russia, Moscow, ORCID: http://orcid.org/0000-0003-3206-5194, E-mail: zhiltsovsa@bk.ru

⁵ Associate professor, Department of Political Theory, Moscow State Institute for Foreign Relations (MGIMO University), Moscow, Russian Federation, ORCID: https://orcid.org/0000-0003-0707-1699, Email: vaslavsky@yandex.ru

region, increasing the economic capacity of the territory, improving the quality and standard of living, adaptation of the socio-economic system of the region to global changes, including climatic ones.

Methodology

In their work, the authors used an integrated approach using a system-structural method involving interdisciplinarity, formalization of tasks and methods of their solution (environmental economics, sectoral and regional economics; econometrics; management theory; cultural studies; economic geography; history). Also at the preliminary stage, the method of factor analysis and institutional analysis were used.

Results

Modern globalization is nonlinear in nature. These processes need to be understood, searched for and justified by scientific paradigms that allow to dampen the difficulties of the period of large-scale changes both for local socio-natural complexes and for the national socio-economic system as a whole. Therefore, the most promising scientific direction is theoretical and applied research of mesoeconomics.

Today, economic research touches on narrow, albeit important aspects of mesoeconomics.

Thus, the issues of local consumer markets, the role of infrastructure, logistics in a regional context are considered by the authors of the study "Competitive environment and entrepreneurial activity in local markets of mass-demand goods in Russia" (Grebennikov and Plyaskina, 2021).

The study "Food security of Russia in the context of globalization and international restrictions" (Shchetinina et al., 2019) examines various approaches to the study of problems, respectively, food security, including at the regional level.

The authors of the research focus on individual industries or areas: digitalization (Kravchenko et al., 2019; Minich, 2023; Filipova, 2023), certain demographic aspects of rural areas (Sergienko et al., 2019), innovative processes (Suslov and Valieva, 2020; Akhmetshin et al., 2019; Antipova et al., 2020) and a number of others.

Scientists of the Institute of Economic Research of the Far Eastern Branch of the Russian Academy of Sciences pay considerable attention to the spatial development of regions, considering the results of the implementation of the State Program of Socio-Economic Development of the Far Eastern Federal District for the period up to 2025 (Minakir and Najden, 2021), measurements and assessments of the socio-economic state and trends in the development of the Far Eastern Federal District in the context of regions and industry complexes (Prokapalo, 2019), as well as such traditionally sectoral issues, as the processes of formation and development of agriculture in the Far East, taking into account the influence of climatic, technological, economic conditions and factors on them (Aseeva et al., 2020; Tretyak, et al., 2023).

In addition, among the publications that touch on certain aspects of mesoeconomics, works on typology, indicators and other aspects of mesoeconomics are published (Ardasheva, 2007; Nayanova, 2015; Bulguchev and Yusupova, 2020; Kuts et al., 2023; Andreev et al., 2021; Burmatova, 2021; Demirhan & Yucel, 2016; Saenko et al., 2021; Gorbashko, 2021; Pogosyan, 2021; Topical issues of economics and sociology, 2021; Kryukov, 2021; Kryukov, 2022; Korableva et al., 2020 a, b; Kleiner, 2022).

The most extensive studies of mesoeconomics are presented by monographs published by IE RAS: "Mesoeconomics: Elements of a new paradigm" (Mayevsky and Kirdina-

Chandler, 2020) and "Mesoeconomics: state and prospects" (Mayevsky et al., 2018). The works contain an overview of foreign publications on the topic of mesoeconomics, which is considered primarily from the point of view of the institutional approach. However, we note that the theoretical and applied potential of mesoeconomical research is much broader.

Researchers note a holistic approach and analysis of the economy from a systemic perspective, including aspects of self-organization of systems and subsystems. The predictive potential of the theoretical provisions of mesoeconomics is also noted, emphasizing that the institutional "slice" under study is, although significant, from the point of view of a number of authors (Mayevsky et al., m 2018), part of mesoeconomics research, but it is only one of the types of functional structures of the meso-level. As noted, [ibid.], "the specificity of the mesoeconomical approach consists in the obvious recognition of the hierarchical nature of the economy [with reference to — Mayevsky, 2018]." In addition, researchers in the field of synergetics note such an important aspect of modern global processes as self—organization, manifested in the inevitable formation of a hierarchical structure, as properties of any sufficiently complex system [with reference to - Chernavsky, Kurdyumov, 2010. p. 97].

It is mesoeconomical studies that make it possible to analyze and formalize the interactions of heterogeneous economic objects to a large extent [with reference to — Dosi, 2012. pp. 41-42]. It is at the meso-level that subsystems undergo stages of transitions from one level of ordering (through structuring) to a higher and more complex level. In turn, a new level, usually characterized by the evolution of the system as a whole, is associated with new challenges.

Threats of ecological and socio-cultural crisis are singled out among the most significant challenges today. Thus, in terms of threats to the ecological crisis, climate change, persistent pollution problems, and ecosystem digression are singled out. In the works of some authors, certain aspects of the problem under study are considered Tong, Q. and Qiu, 2020; Bolognesi and Nahrath, 2020; Kangas and Ollikainen, 2019; Tardieua and Tuffery, 2019; Dyachenko, 2019.

Particular issues of environmental threats to regional socio-natural complexes are addressed in the works of the Institute of Economics and Industrial Production Organization SB RAS. Thus, a large study is devoted to energy and energy infrastructure (Tarasova, 2020), but the issues of adaptation of socio-natural complexes are not considered in the work.

The study "Spatial development of Modern Russia: trends, factors, mechanisms, institutions" (Kolomak, 2020) provides an overview and analysis of regional program documents of the regions of the Siberian Federal District, a lot of work has been done to analyze a number of indicators of the socio-economic state of the regions of the Siberian Federal District. The authors note the importance of climatic conditions for the development of the studied territories.

In the study "Promising agricultural specialization of the macro-regions of Siberia" (Pershukevich and Aleshchenko, 2020), sectoral issues are considered. The authors, of course, relate to natural and climatic conditions, noting the importance of operational monitoring of the state of the socio-natural complex and, accordingly, the need to rely on modern research in these matters.

In addition to the environmental factor, we will highlight the socio-cultural factor that influences the formation of consumer preferences, the volume and nature of consumption of both inelastic and goods and services with high demand volatility. The socio-cultural factor has a significant impact on the formation of sales markets and is an important factor in balanced (sustainable) socio-economic development (Culture and economy, 2006).

We should also note the historical and scientific continuity of mesoeconomical research, primarily in terms of the spatial placement of objects in the real sector of the economy. Thus, a systematic approach was proposed to solve the problems of linking industries, regions, industrial and social infrastructure at the meso-level into a single complex (Bandman, 1975). Researchers and developers not only described the planning algorithm at the interregional and intersectoral levels, but also provided for the analysis of mesomodels that occupy a median (meso) position between macro-models of the national economy of the country and micromodels (objects of the real sector of the economy within an administrative-territorial entity) in terms of the composition of conditions and the level of aggregation (Bandman, 1975, p.20). Based on the mentioned studies, the algorithm should include:

1) determination of the object of research, including a set of parameters to be investigated and analyzed;

2) formulation of an economic and mathematical problem;

3) selection (or development) of an econometric model corresponding to a specific task and software for processing an array of data;

4) collection of information and preparation of initial data for the solution;

5) implementation of the problem solution, including iterations, the purpose of which is to obtain a realistic and optimal model;

6) analysis of the results of the decision and preparation of proposals for the development of an appropriate regulatory framework and/or institutions in order to implement the obtained scientifically based models.

At the same time, the optimization of logistics and interrelations of branches of specialization, resources (raw materials, labor, energy, research, technological, etc.), the level and quality of life of the population, including environmental protection, is considered as a key task, speaking in modern concepts, in order to create conditions for the formation of a competitive economic actor. Of particular importance is the solution of the problem of such optimization in the context of the actualization of multi-level risks associated with the reformatting of the global economic system. As it is rightly noted, "truly optimal national economic solutions are born precisely in the field of mesoeconomics" (Kleiner, 2022). That is why the task of developing a unified concept for optimizing approaches and management tools at the meso-level is so important. The solution of this problem should be based on scientific achievements, accumulated (or emerging) arrays of data on the parameters of the studied economic objects and processes (at all levels), and first of all — on long-term fundamental and applied research in the field of mesoeconomics.

Conclusion

The result of this stage of research was a hypothesis based on a framework approach in the formation and implementation of socio-economic policy at various levels:

In conditions of uncertainty and increased variety of risks (environmental, economic, socio-cultural), issues of management of socio-economic systems and subsystems at the middle (meso-) level — between the macrosystem and actors at the microeconomic level.

Mesoeconomics, being, in fact, a link between the microeconomic level and the macroeconomic system, is the scientific field where multiplicative effects that go beyond the region, industry, corporation, but reach the macroeconomic level only after a certain number of iterations are manifested and can be most fully investigated. The scale of modern globalization requires a revision of scientific paradigms, which today are focused on market regulation of economic processes. However, the complexity of the current

global economy, accompanied by an increase in various risks, requires deep and comprehensive theoretical research, including the development of applied directions in terms of identifying and regulating the interrelationships of socio-economic systems and subsystems.

Institutional, intercorporate, interregional cooperation — in fact, they are precisely a mesoeconomical phenomenon.

Let's highlight the main theses of the hypothesis proposed by the authors.

1. Management in the conditions of uncertainty characteristic of modern turbulence of global processes requires, on the one hand, operational intervention (regulation, relief of various risks), and on the other, scientific understanding, allowing to improve and increase (and/or maintain) the effectiveness of management (regulation, including risk relief). socio-economic systems of various levels.

2. In modern economic theory and practice, there is a problem of the "middle level link" — mesoeconomics, management/regulation of the level between the economy of a region and/or an enterprise/corporation and the national economy.

3. Among the concepts of mesoeconomics, the most popular today is the institutional concept focused on the role and importance of institutions (social, economic, political, etc.) in the process of regulating the mesoeconomical level.

4. From the point of view of an integrated/systemic approach, the institutional approach needs to be supplemented with the concept of a framework approach, which is based on cooperation, multiplicative socio-economic effects that go beyond the region/corporation, and import substitution. The framework approach is of particular importance for ensuring the goals of balanced spatial development and security of the country.

5. The framework approach in mesoeconomics involves, among other things, rethinking hypotheses and theories of both Soviet/Russian classics of spatial development (Kolosovsky, Baransky, Zimin, etc.) and foreign ones (Tyunen, Lesh, Kristaller, etc.).

6. The framework of the territory (region and interregional zones) consists of linear and nodal objects. However, the justification of nodes (including their ranking), as well as the significance and versatility of linear objects, needs additional research.

7. The Russian Scientific School has extensive experience not only in fundamental research in the field of mesoeconomics, but also in the practical implementation of individual achievements (both positive and negative). In modern conditions, this experience requires rethinking.

In general, at this stage of research, it can be stated that the mesoeconomics of research is characterized by relevance, interdisciplinarity, synergetic and predictive potentials.

References

- Akhmetshin, E. M., Stepanova, D. I., Andryushchenko, I. Y., Hajiyev, H. A., & Lizina, O. M. (2019). Technological stratification of the large business enterprises' development. Journal of Advanced Research in Law and Economics, 10(4), 1084-1100. doi:10.14505/jarle.v10.4(42).10
- Andreev, V.A., Sultanova, E.V., Ivelskaya, N.G., Kuzmin, S.B. Industrial complexes of the Russian Far East – ecosystems of mesoeconomics or enclaves? Economy: yesterday, today, tomorrow. Volume 11. No. 9A. 2021. pp. 282-291. DOI: 10.34670/AR.2021.72.49.034
- Aseeva, T.A., Kiselev, E.P., Sukhomirov, G.I. Agriculture of the Far East: conditions, problems and potential of development. Khabarovsk: IEI FEB RAS, 2020. 162 p.
- Ardasheva, E.P. Typology of mesoeconomics. Bulletin of Kazan Technological University, No.3-4, 2007, pp. 218-229.

- Antipova, O. V., Sigidov, Y. I., Akhmetshin, E. M., Tabeykina, E. K., & Akulich, O. V. (2020). Theoretical and methodological pillars of sustainable economic development. Asia Life Sciences, Supp22(2), 697-710.
- Bandman, M.K., Vorobyova, V.V., Zverev, V. S. [et al.] Methodological provisions for optimizing the spatial structure of an economic area : (preliminary version) : scientific ed. M.K. Bandman [et al.]. — Novosibirsk : Academy of Sciences of the USSR, SB, IEIOPP, 1975. — 149 p.
- Bolognesi, T., Nahrath, S. Environmental Governance Dynamics: Some Micro Foundations of Macro Failures. Ecological Economics, V.170, 106555. 2020.
- Burmatova, O.P. Methodology and tools for the analysis of ecological and economic aspects of regional development / Edited by A.S. Novoselov. Novosibirsk: IEOPP SB RAS, 2021. 442 p.
- Bulguchev, M.H., Yusupova, M.D. Formation of an innovative approach to development of socioeconomic systems at the mesoeconomics level. Economy: yesterday, today, tomorrow. Volume 10. No. 1A. 2020. pp. 145-152. DOI: 10.34670/AR.2020.91.1.017
- Culture and economy. Overview of relationships. Electronic publication: Center for Humanitarian Technologies. 06.12.2006. URL: https://gtmarket.ru/library/articles/2561
- Demirhan, G., & Yucel, C. (2016). A Prediction for Teacher Commitment; Effects of Managerial Style, Burnout and Demographics. Research in Social Sciences and Technology, 1(1). https://doi.org/10.46303/ressat.01.01.2
- Dyachenko, A.V., Kosulnikova, T.L., Sizeneva, L.A., Kazieva, Z.M. Metatheory of the impact of tourist and recreational activities on natural parks. Service in Russia and abroad Vol. 13, No. 1 (83). 2019.
- Filipova, I. A. (2023). Creating the Metaverse: Consequences for Economy, Society, and Law. Journal of Digital Technologies and Law, 1(1), 7-32. https://doi.org/10.21202/jdtl.2023.1
- Gorbashko, E.A., Gorbashko, E.A., Fedoseev, I.V. Modern management: problems and prospects : A collection of articles based on the results of the XVI International scientific and practical conference "Modern management: problems and prospects" / St. Petersburg : Publishing House SPbGEU, 2021. 933 p.
- Grebennikov, V.F., Plyaskina, N.I. Competitive environment and entrepreneurial activity in the local markets of mass-demand goods in Russia. Novosibirsk: IEOPP SB RAS, 2021. 196 p.
- Korableva, O. N., Gorelov, N., & Kalimullina, O. (2020). Contemporary issues of intellectual capital: Bibliographic analysis doi:10.1007/978-3-030-48021-9_51
- Korableva, O. N., Mityakova, V. N., & Kalimullina, O. V. (2020). Designing a decision support system for predicting innovation activity. Paper presented at the ICEIS 2020 - Proceedings of the 22nd International Conference on Enterprise Information Systems, 1 619-625.
- Kangas, J., Ollikainen, M. Economic Insights in Ecological Compensations: Market Analysis With an Empirical Application to the Finnish Economy. Ecological Economics, V.159. 2019. p.54-67.
- Kolomak, E.A. Spatial development of modern Russia: trends, factors, mechanisms, institutions // Ed. Novosibirsk: Publishing house of IEOPP SB RAS. 2020. 502 p.
- Kravchenko, N.A., Markova, V.D., Baldina, N.P., etc. Challenges of digital transformation and high-tech business. Novosibirsk: IEOPP SB RAS, 2019. 352 p.
- Kryukov, V.A., Suslov, N.I., Kryukov, Ya.V. The fuel and energy complex of Asian Russia in the world of change. Novosibirsk: Publishing House of IEOPP SB RAS, 2021. 52 p.
- Kryukov, V.A., Seliverstov, V.E. Siberian economy: a difficult path to synergy of natural and human potential, connectivity of space and interests of the federal center and regions. Novosibirsk: Publishing House of IEOPP SB RAS, 2022. 124 p.
- Kleiner G.B., Rybachuk, M.A., Karpinskaya, V.A. Strategic planning and system optimization of the national economy. Problems of forecasting. No.3 (192). 2022. pp. 6-15.

- Kleiner, G.B. Mesoeconomics of Russia: the strategy of the run-up : a monograph / Ed. M.: FSBIS CEMI of the RAS; Publishing House "Scientific Library", 2022. 808 p.
- Kuts, V., Abushenkova, M., Zhuravlev, P., & Kurnosov, V. (2023). Improvement of working conditions in rural areas through the formation of infrastructure for agricultural services. Siberian Journal of Life Sciences and Agriculture, 15(3), 387-408. https://doi.org/10.12731/2658-6649-2023-15-3-387-408
- Mayevsky, V.I., Kirdina-Chandler, S.G. Mesoeconomics: Elements of a new paradigm: Monograph. M.: IE RAS, 2020. 392 p.;
- Mayevsky, V.I., Kirdina-Chandler, S.G., Deryabina, M.A. Mesoeconomics: state and prospects: Monograph. M.: IE RAS, 2018. 314 p.
- Minich, S. A. (2023). Improving the System of Mandatory Requirements to Business under the Digital Transformation of Economy. Journal of Digital Technologies and Law, 1(3), 775-802. https://doi.org/10.21202/jdtl.2023.34
- Minakir, P.A., Najden, S.N. The development of the economy of the Russian Far East: the effects of state policy. Khabarovsk : IEI FEB RAS, 2021. 208 p.
- Nayanova, E.A. System of indicators of the level of market development of mesoeconomics (on the example of Kostroma and Ivanovo regions) : abstract of the dissertation for the degree of Candidate of Economic Sciences, Ivanovo, 2015.
- Pershukevich, P.M., Aleshchenko, V.V. Promising agricultural specialization of the macro-regions of Siberia. Ed.. Omsk : IEOPP SB RAS, SIBNIIIESH SFNCA RAS; LLC IC "Omsk scientific Bulletin", 2020. 240 p.
- Pogosyan, V. G. (2021). Problem of innovations diffusion: A historical retrospective. Voprosy Istorii, 2021(5-2), 24-32. doi:10.31166/VoprosyIstorii202105Statyi30
- Prokapalo, O.M. Regional monitoring: Far Eastern Federal District. Khabarovsk : IEI FEB RAS, 2019. 210 p.
- Shchetinina, I.V., Kalugina, Z.I., Fadeeva, O.P., Chupin, R.I. Food security of Russia in the context of globalization and international restrictions. Novosibirsk: IEOPP SB RAS, 2019. 264 p.
- Saenko, N., Nyanga Gakosso, C., Mezhlumyan, N., Smirnov, A., & Rogulin, R. (2021). Analysis of approaches to the formation of economic mechanisms of supply chain management. Foresight, 23(5), 583-596. doi:10.1108/FS-10-2020-0111
- Sergienko, A.M., O.N. Kolesnikova, Yu.A. Perekarenkova, L.V. Rodionova, O.A. Snegireva, E.V. Tarasov Migration of rural youth: the Altai Territory is in focus. Barnaul : Publishing house of Alt. un-ta, 2019. 325 p.
- Suslov, V.I., Valieva, O.V. Development of innovative economy: analysis, methods and models. Novosibirsk: IEOPP SB RAS, 2020. 440 p.
- Tardieua, L., Tuffery, L. From supply to demand factors: What are the determinants of attractiveness for outdoor recreation? Ecological Economics, V.161, (2019). p.163-175.
- Tarasova, O.V. Infrastructure of spatial development of the Russian Federation: transport, energy, innovative system, life support. Ed. Novosibirsk: IEOPP SB RAS, 2020. 456 p.
- Tong, Q., Qiu, F. Population growth and land development: Investigating the bi-directional interactions. Ecological Economics, V.169, 106505. 2020.
- Topical issues of economics and sociology: a collection of articles based on the materials of the XVII Autumn Conference of Young scientists in Novosibirsk Akademgorodok / edited by Yu.M. Slepenkova. Novosibirsk : IEOPP SB RAS, 2021. 125 p.
- Tretyak, A., Vaslavskaya, I., Poltarykhin, A., & Blagodatskaya, A. (2023). Improvement of the organizational and economic mechanism for the development of investment activities in the agricultural and industrial complex of siberia. Siberian Journal of Life Sciences and Agriculture, 15(3), 337-356. https://doi.org/10.12731/2658-6649-2023-15-3-337-356