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NOONOMY IN MONOTOWNS: FORMING TRENDS OF A NEW INDUSTRIAL SYSTEM AND IMPROVING INSTITUTIONAL CAPACITY

Abstract: the author focuses on the problems of single-industry areas, summarizes the proposals of scientists and researchers to solve these problems, considers the mechanisms of institutional support for territories in Russia, elaborates the importance of industrial development and improvement of the institutional potential of monotowns. The structural provisions of the Concept for the development of the industrial system and improvement of the institutional potential of a single-industry town are proposed, including an analytical system for the socio-economic and environmental development of a monotown, as well as the structural procedure for the formation and implementation of a respective strategic planning document. The presented Concept contributes to improving the socio-economic development of a monotown, increasing labor productivity and the well-being of its population, and progressively developing the industrial and institutional advancement of these areas/

Keywords: monotown, industrial system, institutional potential, indicators, noonomy, concept, import substitution, development institution, preferences.

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单一产业城市的智慧型经济——新工业体系的形成与制度功能的完善

摘要:文章着重探讨了产业单一地区的发展问题,总结了科学家和研究人员对解决这些问题的建议,研究了在俄罗斯对地区的制度支持机制,论证发展工业和完善制度功能对单一产业城市发展的重要性。作者提出的关于发展单一产业城市工业体系和完善制度功能构想的体制方面原则,包括单一产业城市社会经济和环境发展的分析系统,战略规划制定和落实的组织程序。实施作者所提出的构想,能够改善单一产业城市的社会经济发展,提高劳动生产率和群众福利,使该地区的工业和制度得到快速发展。

关键词:单一产业城市、工业体制、制度功能、指标、智慧经济、构想、进口替代、制度发展、优惠。

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Introduction

In the conditions of geopolitical and sanctions turmoil and unstable global socio-economic situation, the development of each of the country's towns deserves special attention, including the "mono-profile" towns, which currently account for 321 units¹ or 29% of all Russian cities. According to statistics, every 10th inhabitant of the Russian Federation now lives in a single-industry town²; 336 town-building enterprises operate in such towns in the country [Mavrina, 2022].

The main feature of single-industry towns (hereinafter – monotown) is their dependence on the state and development of the main enterprise (or a chain of technologically related enterprises), which is the town-forming one and determines the socio-economic development of this settlement [Neklyudova, 2005, p. 57].

At the same time, based on the specifics of formation and development in these towns, especially in the period of crisis phenomena, there are problems remained in terms of both social, environmental and economic development: environmental problems [Dmitrieva, Most, 2018]; dependence of employment on town-forming enterprises; low investment activity, low budget revenues [Dulesov, Bekhterev, 2015, p. 1412]; unfavourable social situation [Shabelnikova, 2019, p. 173]; social conflicts, crime, poverty [Mallyamova, Osipov, Smirnova, 2021, p. 141] and others.

Research methodology

President of the Russian Federation V.V. Putin, at a meeting on 9 August 2022, drew attention to poverty and high levels of alcoholism in towns with only one industry³ and called for these problems not to be "glossed over". Deputy Chairwoman of the State Duma of the Russian Federation O. Timofeeva stated the following at the meeting of the Expert Council of the Committee on Economic Policy, Industry, Innovative Development and Entrepreneurship: "It is especially important to keep the situation under control in towns with only one industry. There, there are acute problems of unemployment, population outflow, lack of funds for the social sphere and infrastructure."⁴ D. Azarov, Chairman of the Committee on Federal Structure, Regional Policy, Local Self-Government and Northern Affairs of the Federal Assembly of the Russian Federation, emphasised the following problems of monotowns: dependence on market conditions, unemployment, environmental pollution, underdeveloped infrastructure, including education and health care, outflow of the young population [Azarov, 2022].

The problems of monotowns are particularly acute at a time of unstable socio-economic conditions; their control and the search for solutions are the source of more progressive development of such areas.

In order to solve the problems of one-industry towns, scientists have proposed a number of mechanisms, in particular: the interaction of government and business; working with the young generation [Emelyanova, Kharchikova, 2019, p. 9]; the creation of a mechanism for controlling the socio-economic processes in one-industry towns, appropriate to the market system and ensuring the possibility of adaptation and self-development of these settlements [Turgel, 2014]; modernis-

¹ On Approval of the List of Monoprofile Municipal Entities of the Russian Federation (2014). Decree of the Government of the Russian Federation No. 1398-r (ed. on 21.01.2020). URL: <https://mir.midural.ru/sites/default/files/files/1398-r.pdf>.

² Single-industry towns support (2022) // VEB.RF. URL: <https://xn--90ab5f.xn--p1ai/podderzhka-monogorodov/>.

³ Putin drew attention to the problems of poverty and alcoholism in single-industry towns (2022) // TASS.RU. URL: <https://tass.ru/obschestvo/15431187>.

⁴ How to raise money in single-industry towns. Nevinnomyssk shared its experience (2021). LENTA.RU. URL: <https://lenta.ru/articles/2021/02/18/mono/>.

ing the economy of a one-industry town by encouraging private entrepreneurial initiatives by the population, subject to the creation of comfortable conditions for this; a migration option involving the relocation of workers to other places; creating new jobs for workers outside the main industry in the town, using the economic potential of the area; creation of innovation centres (clusters) for the introduction of modern technologies and scientific research into production (science cities) [Prischepa, 2019, p. 138]; development of state support for towns with only one industry in the following directions: “development of the most significant – system-relevant enterprises”, “comprehensive support for small and medium-sized enterprises”, “investment in rural infrastructure, development of commercial agricultural production and agriculture, individual housing construction” [Fomin, Bezverbny, Shushpanova, Mikrukov, Lukashenko, Miryazov, 2020, p. 146]; attracting investments for modernisation, re-equipment and expansion of production facilities, as well as in general economic and social infrastructure facilities; balanced development of large, medium and small enterprises, including on a cooperative basis, with the prospect of cluster formation in the territory [Buchwald, 2017].

To support regional and local authorities and the business community in initiating and implementing projects to improve the social and economic situation in one-industry towns, Russia has established the Fund for the Development of One-Industry Towns, which during its existence has signed 59 project financing agreements worth over RUB 13.5 billion and invested around RUB 11 billion in the construction or reconstruction of 90 infrastructure facilities to launch new projects or expand existing ones. The fund has also established a project office, which implies the introduction of a system for monitoring line managers [Makieva, 2022].

The importance of developing towns with only one industry and the need for state support has been noted by many scholars [Pyatsheva, 2012, p. 46; Zemlyansky, Lamanov, 2014, p. 69; Petrina, 2015, p. 153; Pulyavskaya, Khristoforov, 2021, p. 69; Turgel, Bozhko, Xu, 2016, p. 25].

To this day, single-industry towns receive regular support from the authorities, in particular budgetary funds are allocated for the construction and reconstruction of industrial and social facilities. By Decree No. 399-r of the Russian Government of 03 March 2022, 450 million roubles were allocated to support the development of single-industry towns¹. The projects are expected to create at least 478 new jobs. In September 2022, the VTB Supervisory Board approved a new package of measures to support one-industry towns (non-repayable co-financing of infrastructure for investment projects – up to RUB 750 million, social infrastructure facilities for one-industry towns with a population of up to 50,000)².

According to the Centre for Strategic Development, in order to maintain the competitiveness of town-building enterprises in the future, it is necessary to increase spending on research and development, create faster engineering centres for the production of machinery and equipment, as well as reverse engineering centres in the most risky (affected) industries [Mavrina, 2022].

In addition, the issues of technological and social development of towns with only one industry are addressed at many conferences, for example: 21 September 2021 – at the scientific-practi-

¹ The government has allocated additional nearly half a million roubles for the development of single-industry towns (2022). Russian Government Resolution No. 399-r // Russian Government. Documents. URL: <http://government.ru/docs/44713/>.

² The Government of the Russian Federation approved the list of new measures to support single-industry towns (2022) // AK&M. URL: https://www.akm.ru/news/pravitelstvo_rf_utverdilo_perechen_novykh_mer_podderzhki_dlya_monogorodov/.

cal conference “Social and economic development of monotowns in the Urals”¹, 24 March 2022 – at the conference “Monotowns: a strategy for development”².

The author’s work examines multifaceted aspects of the development of monotowns: criteria for classifying a town as a monotown [Pyankova, 2012, p. 20]; promising directions of monotowns development [Pyankova, 2016, p. 48]; mechanisms of internal self-transformation [Pyankova, 2018, p. 98]. In studying these issues, the author focuses on the improvement and development of the industrial system of a one-industry town.

The scientist M.R. Skulkin, in his monograph “Industrial development of social production”, proposed a formulation and pointed out the basics of “industrial development”: it is “a socio-economic process of development of large-scale machine production, which actively affects various aspects of society.” [Skulkin, 2014, p. 5]. He also points out in his work that “at the centre of industrial development is the development of large-scale machine industry and the penetration of machine production into all sectors of the economy” [Skulkin 2014, p. 5].

The Doctor of Economics, Professor S.D. Bodrunov, in one of his works deals with the importance of industrial production, which is characterised by: the use of complex means of production instead of hand tools; the dependence on natural sources of energy (the muscular power of men and animals, the energy of the natural movement of water and wind), but on universal artificial sources of energy (various kinds of steam engines, internal combustion engines, electric motors, jet engines, etc.); the use of technologies based mainly on the use of machines); the use of technologies based mainly not on empirical production experience, but on scientific knowledge that makes it possible to transform various natural processes into technological processes controlled and managed by man; the ability to ensure both mass production of standardised products and their adaptation to the needs of individual consumption [Bodrunov, 2022, p. 30].

It should be noted that the formation and improvement of the institutional system of a one-industry town is a key source for its more effective development and the basis for increasing productivity [Uskova et al., 2012].

Academics and researchers have suggested a number of mechanisms for developing the institutional capacity of a town/one-industry town, in particular: development of business support infrastructure, material and financial support for entrepreneurs [Hodorich, 2009, p. 32]; development of institutional reform methodology with special attention to the process of determining the factors of institutional sustainability [Ryakhovskaya, Polyakova, 2016, p. 60]; development of measures to encourage internal coordination of innovation projects on the principle of “technological greenhouses” of Israel, the development of targeted tax mechanisms to stimulate innovation and a mechanism for the active involvement of the banking sector in the innovation process [Nigoeva, 2019].

Main findings and discussions

One of the sources of more effective development of the territory is a mechanism for better preparation of strategic planning documents. This conclusion was reached, in particular, by the participants of the expert meeting of the Coordination Club of the Free Economic Society of Rus-

¹ Socio-economic development of monotowns of the Urals (2021) // IDI FNISC RAS. URL: <https://idrras.ru/news/2021/sepember/sotsialno-ekonomicheskoe-razvitie-monogorodov-urala.html>.

² Conference “Monotowns: Development Strategy” (2022) // Kommersant-Ural. URL: <https://events.kommersant.ru/ural/events/konferenciya-monogorod-strategiya-razvitiya/>.

sia (hereinafter – the FES of Russia), the Expert Council of FES of Russia and Rossiyskaya Gazeta on the topic of “Planning in the realities of global transformation: new approaches, problems and solutions”. As S.D. Bodrunov, Corresponding Member of the Russian Academy of Sciences, President of the FES of Russia, President of the International Economists Union, pointed out at the meeting, “planning as an institution that forms the backbone of economic activity and social life is becoming not only a requirement, but certainly a necessary tool for choosing the right vector of development, including technological, for choosing the course that will make it possible to resolve global contradictions”¹.

The author of the study believes that for each monotown it is necessary to elaborate the concept of development of the industrial system and perfection of the institutional potential of the town (hereinafter – the concept). Thus, according to the author, the concept should:

I – *contain the following points:*

1) key provisions of the Concept for the Development of the Industrial Complex of Saint Petersburg for the period up to 2020 [Bodrunov et al., p. 32], such as the development of measures to support priority industries and types of industries (promotion of investment in industry, industrial reconstruction, research and development work on problems of industrial development, etc.), improvement of the mechanisms of strategic partnership between the state, business and society, etc,

2) key approaches of the theory of Noonomy, the founder of which is Professor S.D. Bodrunov, Doctor of Economics: tendencies to increase the knowledge intensity of production, to increase the knowledge intensity of its processes, to reduce the material/fund/energy/resource intensity, etc. [Bodrunov, 2018a, p. 57; 2018b, p. 72],

3) experience with the development of single-industry towns in the PRC, where their problems are solved within the framework of long-term programmes of “industrial revitalisation” of large regions with old industry, covering several provinces and modernising both town-building enterprises and towns – centres of areas with old industry [Kotov, 2020],

4) benchmarks to improve the technological re-equipment of urban enterprises to meet the challenge of import substitution under the sanction²;

II – *oriented towards the implementation of:*

1) 17 UN-adopted Sustainable Development Goals³ (ensuring transition to sustainable consumption and production patterns, building resilient infrastructure, promoting inclusive and sustainable industrialisation and innovation, etc.).

2) Strategic documents of the country: “On the National Development Goals of the Russian Federation for the Period up to 2030”⁴, “Strategy for Spatial Development of the Russian Federation for the Period up to 2025”⁵, “Strategy of Economic Security of the Russian Federation for the

¹ FES experts: New approaches to state planning are needed (2022) // RG.RU. URL: <https://rg.ru/2022/12/16/eksper-ty-veo-rossii-neobhodimy-novye-podhody-k-gosudarstvennomu-planirovaniuu.html>.

² Handling It Ourselves: How the Volga Federal District Regions Solve the Import Substitution Problem on Putin’s Order (2022). URL: <https://www.1tv.ru/shows/situaciya-na-ukraine/publikacii/spravlyaem-sya-sami-kak-re-giony-pfo-reshayut-zadachu-importozamesheniya-po-porucheniyu-putina>.

³ Sustainable Development Goals (2015). URL: <https://www.un.org/sustainabledevelopment/ru/infrastructure-in-dustrialization/>.

⁴ On National Development Goals of the Russian Federation for the period until 2030 (2020). Presidential Decree No. 474 // President of Russia. <http://www.kremlin.ru/acts/bank/45726>

⁵ On Approval of the Russian Federation Spatial Development Strategy until 2025 (2019). Decree of the Government of the Russian Federation No. 207-r. URL: <https://www.garant.ru/products/ipo/prime/doc/72074066/>.

Period up to 2030”¹, Strategy for Scientific and Technological Development of the Russian Federation “², “National Security Strategy of the Russian Federation “³, etc.;

III – formed in accordance with the structural regulatory documents for the creation of strategic planning documents^{4,5} etc.), as well as conceptual approaches to the creation of a strategy for the development of a single-profile town developed by scientists and researchers [Animica et al., 2021, p. 70].

Figure 1 shows the structural provisions of the concept for developing the industrial system and improving the institutional potential of a one-industry town.

It is suggested that the following conceptual provisions be adopted in the development of the concept:

1) approve the implementation period of the Concept for a long-term term in accordance with the conditions for the implementation of the region’s strategy;

2) objectives and tasks of the Concept should be defined in accordance with the regional strategic planning documents

3) form a system of target indicators in the Concept based on the developments of Y.G. Tyurina presented in her work “Mechanisms of innovation development of single-industry towns in modern conditions.” [Tyurina, 2019, p. 221], as well as on the basis of the criteria for assessing the environmental condition of towns proposed by E.A. Arustamov [Arustamov, 2017] or the target indicators presented in the State Programme of the Russian Federation “Development of Monotowns”⁶.

4) the activities of the Concept should be aimed at achieving its target indicators.

Some of the measures for the development of the industrial system of a mono-industrial town may be the following:

1. Industrial development of town-forming enterprises and one-industry enterprises: construction of new and reconstruction of existing technological complexes; introduction of technological cluster systems, transition to automated digital production; introduction of digital twins; robotisation of production; machine learning; construction of industrial parks; transition to the smart product model; introduction of technologies for analysing large databases; formation of a multifunctional digital platform that ensures analysis of supply and demand, globalisation of the test market, intelligent selection of customers and service providers; technological modernisation of enterprises to reduce air emissions and the derivation of and discharges of untreated wastewater; implementation of other digital tools.

2. Import substitution: producing technological cycles for the production of spare parts; providing information, advice and organisational support to enterprises carrying out import sub-

¹ On the Economic Security Strategy of the Russian Federation for the period until 2030 (2017). Decree of the President of the Russian Federation No. 208. URL: <https://www.garant.ru/products/ipo/prime/doc/71572608/>.

² On the Strategy for Scientific and Technological Development of the Russian Federation (2016). Decree of the President of the Russian Federation No. 642. URL: <https://www.garant.ru/products/ipo/prime/doc/71572608/>.

³ On the National Security Strategy of the Russian Federation (2021). Decree of the President of the Russian Federation No. 400. URL: <https://www.garant.ru/products/ipo/prime/doc/401325792/>.

⁴ On Strategic Planning in the Russian Federation (as amended and supplemented) (2014). Federal Law. NO. 172-FZ. URL: <https://base.garant.ru/70684666/>.

⁵ On the Basics of Strategic Planning in the Russian Federation (2009). Decree of the President of the Russian Federation No. 536. URL: <https://crystalbook.ru/wp-content/uploads/2021/06/Ukaz-president-ob-basis-strategic-planning-in-rf.pdf>.

⁶ State programme of the Russian Federation ‘Development of single-industry towns’ (2019) // Forum-meeting on development of single-industry towns of the Russian Federation, Togliatti, 15 July 2019, Zhigulevskaya Dolina Technopark. 81 p. URL: <https://econom22.ru/territorii-operezhayushchego-razvitiya/rezidenti/PasportGPmonogorod.pdf>.

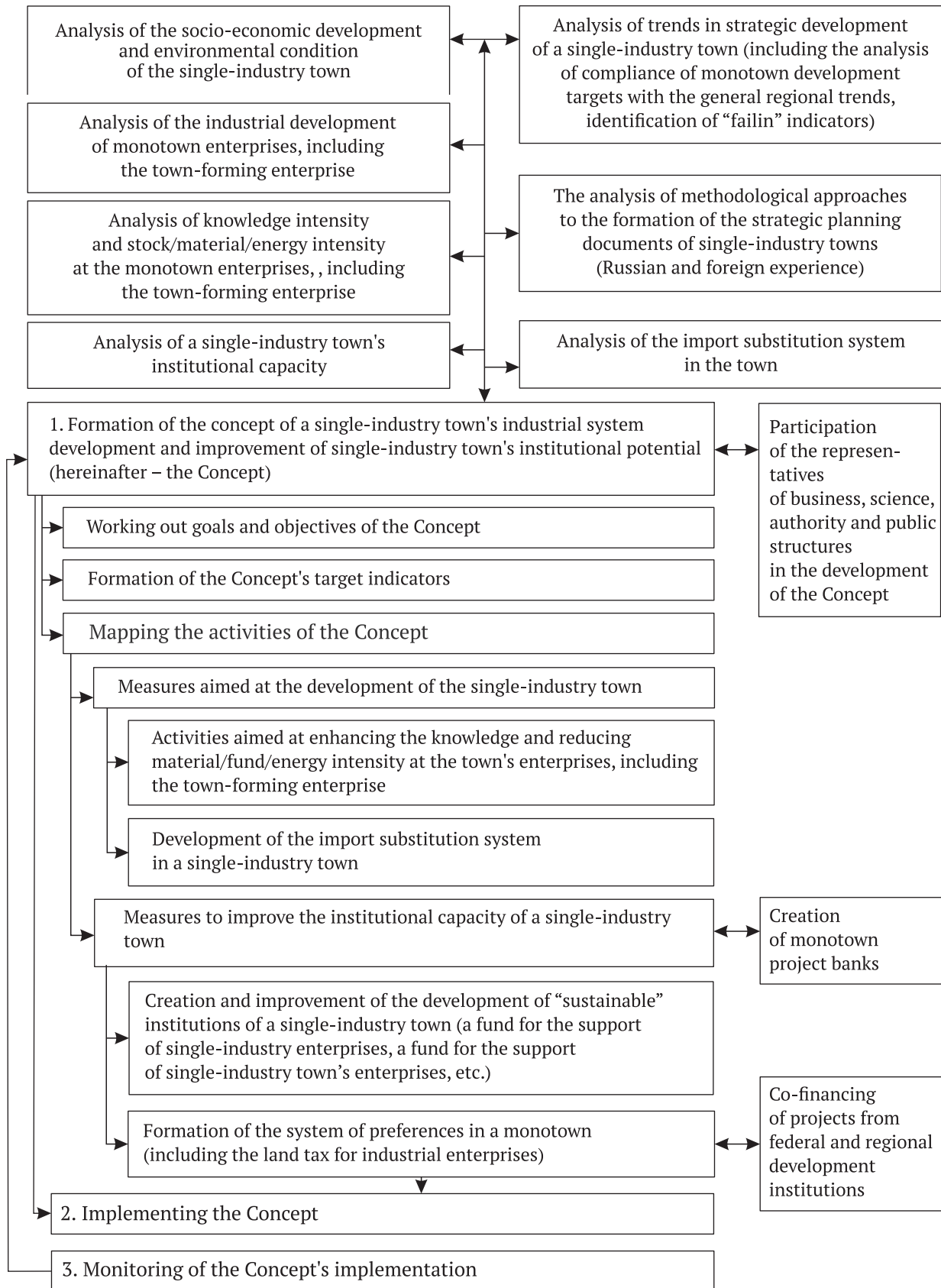


Figure 1. Structural provisions of the Industrial System Development Concept and improving the institutional capacity of a single-industry town

stitution activities; updating the list of priority investment projects contributing to import substitution; creating accessible infrastructure in the monotown to accommodate the production facilities of import substituting enterprises.

Among the measures to improve the institutional capacity of a one-industry town, it is proposed to implement the following:

1) improving the activities of development institutions: create conditions for the implementation of new institutional projects; introduce criteria for the effectiveness of their activities; develop a system of targeted support for investment and innovation projects of one-industry towns;

2) creation of a system of preferences: creation of special legal regulations for entrepreneurial and other activities in one-industry towns; creation of a mechanism to compensate investors for part of the costs of project implementation within the framework of taxes paid by them; provision of non-financial support to ensure sustainable socio-economic development of one-industry towns; support for the town-building enterprise in the development of production; provision of low-interest loans from regional and federal funds of one-industry towns for the implementation of the project; creation of a system of incentives for investors.

The author of the study believes that the most important source of effective design and implementation of the concept is the participation of representatives of business, science, authorities and public structures.

It is necessary to monitor the effectiveness of the implementation of the Concept on the basis of a consolidated, holistic assessment of the indicators of social, economic and environmental development of a town with only one industry.

The proposed Concept will improve the socio-economic development of a single-industry city, increase labour productivity and the well-being of the population, make the industrial and institutional development of this area more advanced.

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