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Kharkiv region of Ukraine in the aspect of a polycentric development model

Abstract: This article is devoted to the analysis of a model of regional development of Kharkiv region of Ukraine, which is monocentric, and the rationale for the formation of polycentrism in the region. The city of Kharkiv and urban areas as centers of growth in the region are considered in the article.

Keywords: regional development, polycentric development, monocentric development, cities as centers (poles) of the growth, in the region, urbanized area.

Socio-economic development of regions and countries are characterized by territorial concentration trends, agglomeration, exacerbation of inequality and the growing role of cities in the national and global economy. Due to the impact of globalization and open economy, these trends are becoming more pronounced. However, the excessive concentration of population and economic activity in one centre causes the negative effects of economic, social and ecological character. Therefore, it is necessary to ensure polycentric territorial development, for the formation of many centers of economic activity [2]. These centers have to become a growing city. The Holistic Theory of cities as growth poles was formed in the late 70-

ies XX century and was fully represented in the fundamental works of such scientists as J. Robert Boudeville, P. Klaval, G. Richardson, G. Tornkvist. There was an opinion that the more poles of development in the country, the smaller is will be territorial and sectoral imbalances [7].

The growing role of cities in national and global economy is evidenced by the fact that in 1996 the World Conference in Istanbul (Habitat II) Governments of 171 countries in the world a city was officially recognized as a central factor of social and economic development of mankind, the centre of social life and national economy, a custodian of culture, heritage and traditions. A key role in the changing lifestyle of the population, patterns of production and consumption, settlement patterns and spatial distribution of production belongs to cities [3].

Economic problems of territorial concentration and the role of cities in the process of economic development are devoted many works of Ukrainian scientists: Z. Varnaliya, V. Vorotina, M.I. Dolishni, I. Lukinov, K. Mezentsev, Vladimir Popovkin, S. Romaniuk, I. Savchuk, D. Stechenko, V. Chuzhykov and some foreign authors, including William Ayzard, Porter, P. Krugman, Robert Lucas, P. Romer, D. Friedman, M. Fujita and others. Polycentric territorial development is the subject of such research scientists as M. Burger, P. Venus, N. Green, E. Meyyers and others [2].

The problem of polycentric development is very important for modern Ukraine and its regions, which have generally typical monocentric model. This is especially true to Kharkiv region for which the reduction of regional disparities in the quality of life and polycentric development is one of 3 strategic objectives to regional development till 2020 [9]. Based on these research cities in the region as the basis for the formation of polycentric development model is an important scientific task. These cities have to become new centres of social and economic growth of the region, dragging on some of the functions that were previously unique to Kharkov. Their task is to ensure the area of influence with the access to financial resources, scientific, educational, medical, cultural services high level, new ideas and development programs, etc. [9].

Kharkiv region is a highly urbanized region (the level of urbanized areas on 01.1.2015 amounts to 80.6% [4]), the area with intense, mostly industrial, urban residential and public buildings. The index of concentration of population in the region is 63.6%, that indicates a sharply uneven settling of the population and its concentration in the great cities.

Kharkiv belongs to developed regions of Ukraine, which system of settlement has a long and difficult period of formation and development of polycentric transformed dramatically into monocentric (today in the regional centre 53.5% of the population is concentrated, and the population of the second largest settlement (Lozova) is 25 times lower than population of Kharkiv).

There are two main aspects of polycentricity: morphological and functional. The Morphological aspect studies the size of polycentric cities and their mutual arrangement. Unlike the morphological, the functional aspect of polycentricity studies the economic specialization of centers and interaction between them [2]. Therefore, there are such following areas: morphologically monocentric, polycentric morphologically, functionally monocentric and polycentric functional. Kharkiv region is a functionally monocentric area.

The system of cities in Kharkiv region is represented by the following groups: 1) large cities (over 100 thousand people) - 1 Kharkiv city, which has the population of 1,451.028 thousand people at 1. 01. 2015; 2) medium-sized cities (50-100 thousand people) - two cities (Lozova and Isyum) with the population of 109.818 thousand people; 3) small towns (less than 50 thousand people) - 14 cities (283.028 thousand people) [4].

The modern monocentric spatial pattern of regional development of the Kharkiv region is characterized by exaggerated development and eccentric position of Kharkov. This is a key reason for preserving the "center - periphery" model of spatial development of the region, leading to aggravation of regional disparities, particularly in the level and quality of life, the inhibition of general development of the region and so on.

Taking into consideration the European principles of spatial development, a key priority of the Kharkiv region is defined by incentives polycentric development of the area as one of the conditions of metropolisation of the region that will promote social and economic growth, attracting new staff, improving migration attractiveness, job creation and so on. It requires solving a number of strategic objectives. Firstly, there is a need to restore lost functions and entry of new functions by the cities in the region, depending on the role in the settlement system, specialization and modern social inquiry. Thus, the functions and the specialization of the city of Kharkiv region are divided into 6 groups, and according to the role in the settlement system - into 5 groups (Table 1).

Table 1. Classification cities Kharkiv region Depending on their role in the settlement system and specialization [8]

Classification according to role in the settlement system Classification the functions, specialization	Centre of regional settlement system	Centers of overregion settlement system, the transport center	Cities in the affected area of large and major cities	Cities in the zone of communication and transport corridors	Regional centers of settlement
Polyfunctional city	Kharkiv				
Cities with the most industrial functions		Izyum, Lozova, Kupiansk	Chuhuiv	Pervomajskiy, Balakliya	Zmiiv
Transport units		Izyum, Lozova, Kupyansk	Chuhuiv	Lyubotin, Krasnohrad, Valki, Merefa, Pervomajskiy	
Sanitation health and recreation centers			Chuhuiv, Pivdenne	Lyubotin	Balakleya, Zmiiv
Historical, historical and cultural tourist centers		Izyum, Kupyansk		Krasnohrad, Valki	Balakliya, Bogoduhiv, Vovchansk, Zmiiv
Household centers of local importance of social service functions		Izyum, Lozova, Kupyansk,	Chuguiv, Pivdenne	Lyubotin, Merefa, Krasnohrad, Valki, Pervomajskiy	Dergachi, Balakliya, Bogoduhiv, Vovchansk, Zmiiv, Barvinkove

Secondly, the formation of polycentric regional development model needs to determine the types of new towns – the poles of growth in the region in the region. Thus, according to the in the world practice the city centres of regions can be formed as: 1) the new nation's capitals and the new administrative centres of the region; 2) organizational centres of new developed territory; 3) well-balanced city; 4) industrial poles; 5) the pole of reconversion; 6) scientific towns; 7) regional poles of reconstruction of city networks [7]. From our point of view, the cities of Kharkiv region as centres of social and economic growth of the region can develop as industrial poles, the balance cities, the poles of reconversion, scientific towns, and the poles of reconstruction of regional networks.

Thirdly, the important task of polycentrism is to establish clear boundaries between urbanized areas of the region. Thus, according to the General Scheme of Planning of the territory in Ukraine in Kharkiv region they formed 4 overregion settlement systems: 1) Central urbanized area (formed around the centre of planning.

Kharkiv agglomeration is the most developed region, the total number of its population is 2.1 million (almost 77% of the population), 93% of them live in cities); 2) Izyumskaya urbanization zone (formed within Izyum, Balakliya and Borova areas with the centre. Izyum has numbering 172.5 thousand people (6% of the population), 72% of them live in cities); 3) Kupyansk urbanized area (includes Kupyansk and Dvurechiv areas with the centre of Kupyansk; has the population of 98.4 thousand people, 70% of which is a urban population); 4) Lozova urbanized area (includes Bliznyukovsky Lozova with the in the centre in Lozova and the population of 117.4 thousand people) [9].

The achieving the goals of polycentrism in Kharkiv region also includes:

- “Update“ the“ planning“ scheme“ of“ area“ groups of administrative units in the zone of influence of Kharkiv, Izyum, and Lozova, Kupyansk;
- “the“ determining“ of“ coefficients“ of“ polycentrism“ of“ a“ region;
- “the“ strengthening“ of“ the“ economic“ potential“ of“ cities;
- “the“ managing“ of“ the“ expansion“ of“ spaces“ of cities, restrictions of trends of suburabanization by the development of more compact forms of development of small and medium-sized cities, the use of city sparing methods of construction, the development of construction around highways, improving the quality of urban life, including“ preservation“ of“ existing“ ecosystems“ and“ the“ creation“ of“ new“ “green“ areas“ and Biotope structures;
- “renovation“ of“ depressed“ urban“ areas;
- “the“ effective“ management“ of“ urban“ ecosystems“ especially“ regarding“ open“ and“ “green“ areas, water resources, energy and waste;
- “the“ development“ of“ effective“ and“ ecological“ species, “of“ local“ public“ transport;
- “the“ establishment“ of“ specialized“ body“ of“ planning“ and“ coordination“ of“ development;
- “preservation“ and“ enhancement“ of“ cultural“ heritage;
- “the“ development“ of“ city“ networks“ [6].

Thus, the settlement system of Kharkiv region is monocentric, hence there is a hypertrophied gap in terms of socio-economic development between the regional centre“ and“ other“ regions.“ Excessive“ concentration“ of“ population in Kharkiv, and a number of specific demographic problems such as depopulation and aging in most peripheral districts, create significant disparities in the level and quality of life that each“ year“ exacerbate“ the“ hampers“ of“ the“ overall“ development of the region. The

formation of polycentric settlement system, recover of the lost and the entry of new features of urbanized centers will make it possible not only to reduce disparities in territorial development, but also contribute to socio-economic growth, attracting new staff, improving the migration attractiveness, job creation and so on.

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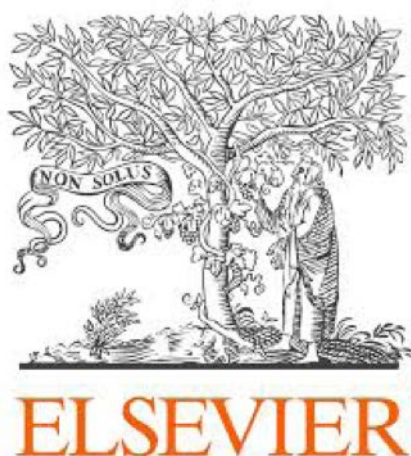
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