ANALYSIS OF FUNCTIONING INNOVATIVE TECHNOLOGY PARKS IN GEOGRAPHICAL SPACE

United Nations Educational, Scientific and Cultural Organization · Junior Academy of Sciences of Ukraine

UKRAINE TEAM

KATERYNA GORISHNIA
National center «Junior Academy of Sciences of Ukraine» under the auspices of UNESCO

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RELEVANCE OF RESEARCH

Ukraine has great opportunities for the creation and operation of technology parks, in particular in the Kharkiv, where strong production, scientific, technical and educational potential is concentrated. The creation of them is quite relevant because it can become one of the effective means of improving the innovation and investment development of the city.

THE AIM OF OUR PROJECT

to explore the geographical factors of functioning the world's leading technology parks to determine the prospects for the application of such experience in Ukraine (on the example of the "Ecopolis HTZ" Business Park).

TASKS: **1.** To generalize the theoretical foundations and determine the methodological aspects of the study of technology parks in world practice.

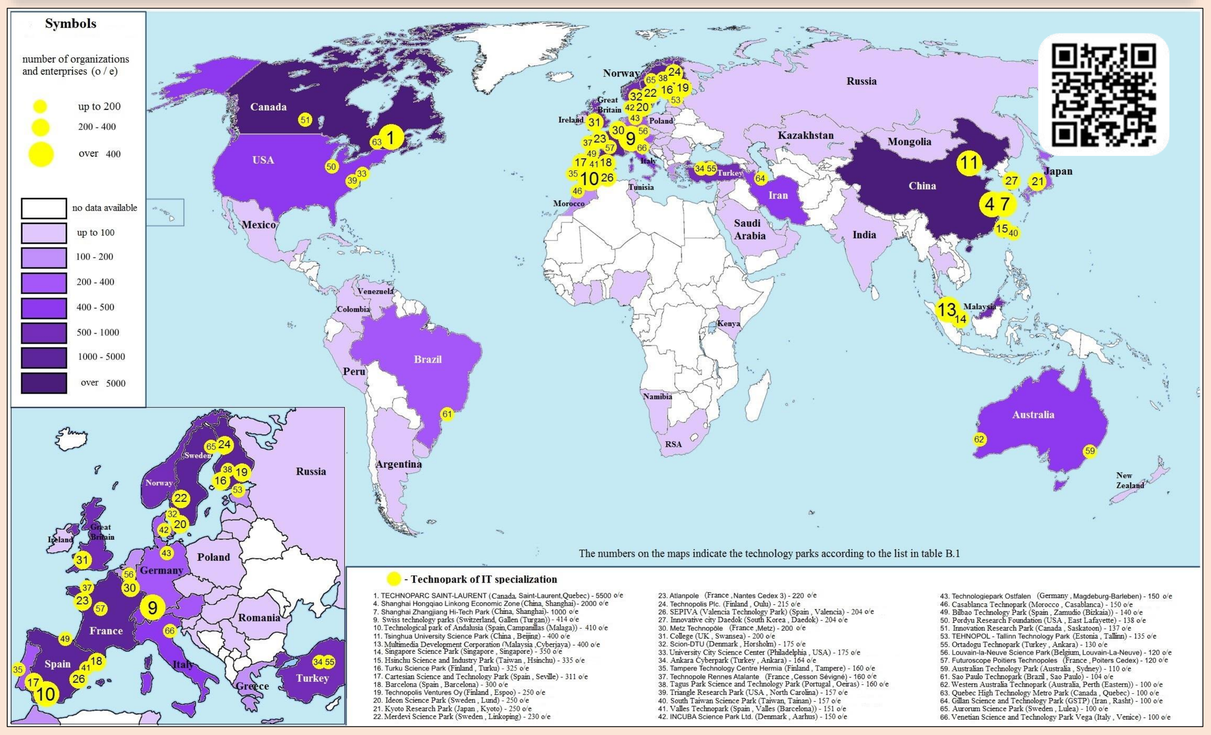
2. To analyze the geographical features of the placement and operation of technology parks in the world and in Ukraine in the context of the possibility of their work experience in Kharkiv.

3. To substantiate the prospects of formation and function in the city of Kharkiv of new innovative technology parks of IT specialization (on the example of the "Ecopolis HTZ" Business Park).

Table 1 - Criteria for selection of comparative technology parks (concluded by the author)

A. Localization	
A.1	Geographical location
A.2	Geopolitical status of the city
A.3	Industrial specialization
A.4	Development of science and education
A.5	Financial opportunities
B. Functionality	
B.1	Interest of state and local authorities
B.2	IASP membership
B.3	IT specialization
B.4	Spatial parameters
B.5	Participants of the technology park

Fig. 1 - Location of the largest IT technology parks (built by the author according to IASP)



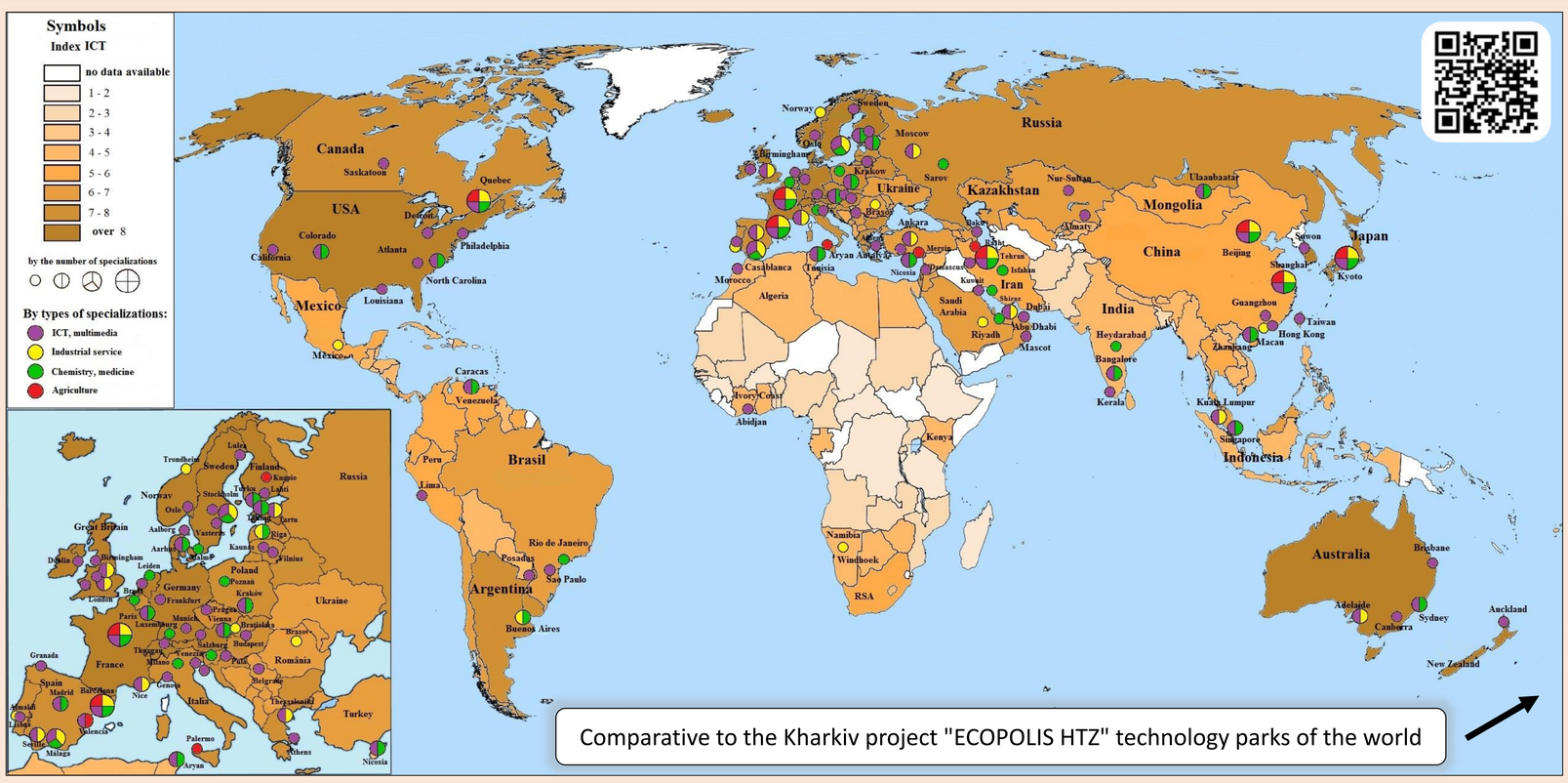
RESEARCH METHODS:

System analysis, etymological approach, normative legal, historical

CONCLUSION 1:

- The methodical concept of research is proposed by allocating two groups of criteria (Table 1) to detect a comparative to the Kharkiv project of technology parks (Fig. 2) in order to introduce the experience of their activities in Ukraine;
- A comprehensive geographic analysis of leading cities in the world by specialization of activity in the technology parks, also determines the location of the largest technology parks of IASP, focused on economically developed countries, the main profile of which is IT specialization (Fig. 1).

Fig. 1 - Technoparks in the leading innovative cities and regions of the world (built by the author according to IASP and ICT Statistics)



RESEARCH METHODS:

Statistical, normative legal, geographical (comparative, cartographic)

CONCLUSION 2:

- A typology of the world under the index of ICT (Fig. 1) has been carried out, it is determined that Ukraine (6,11) in the ranking of 69 place, so it is worth providing significant support for the development of the IT sector, as a prospective industry in the growth of the Ukrainian economy and creation. products through the formation of technology parks;
- According to the proposed criteria selected and analyzed comparative to the Kharkiv project technology parks (Fig. 1);
- The geographical features of industrial, technology parks and other innovative projects in Ukraine are defined.

Fig. 2 - Local geographical location "Ecopolis HTZ“ (built by the author using the cartographic basis of OSM)

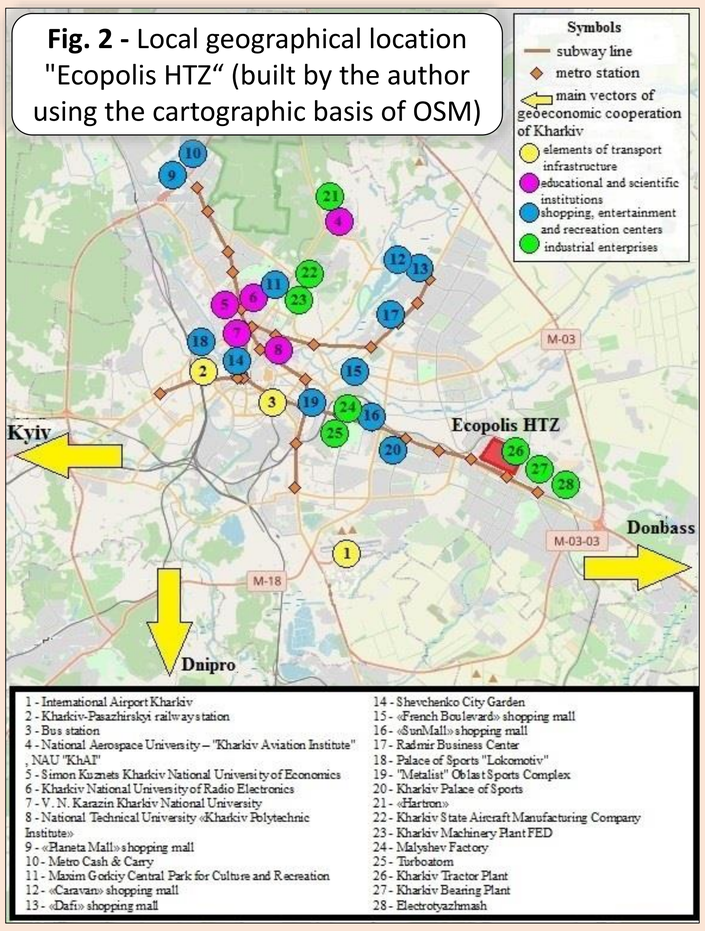


Table 2 - SWOT-analysis of the development of the technology park in "Ecopolis HTZ" (concluded by the author)

S (STRENGTHS)	W (WEAKNESSES)
(1) Favorable geographical location	**(1)** Influence of the geographical position of Russia
(2) Developed infrastructure of the Kharkiv	**(2)** Territorial and economic status
(3) High scientific and technical potential	**(3)** Involvement of leading technology companies in Ukraine
(4) The only IT specialization of the technology park	**(4)** Lack of state support and laws
(5) The presence of a single management company	**(5)** Competition from other technology parks
(6) Availability of investors	**(6)** Cooperation with leading companies abroad
O (OPPORTUNITIES)	**T (THREATS)**
(1) High profits with successful development	**(1)** Low profits for unsuccessful development
(2) New competitive products	**(2)** The emergence of new technology parks-competitors
(3) Entering new markets	**(3)** Geopolitical and geoeconomic changes in Ukraine
(4) Training and retraining	**(4)** Financial instability
(5) Obtaining IASP member status	**(5)** Migration of skilled labor
(6) Spatial and organizational expansion of the technology park	**(6)** Export of capital from the technology park abroad

RESEARCH METHODS:

Analysis, geographical (alignment, cartographic), SWOT-analysis

CONCLUSION 3:

- Analyzes the territorial planning and functioning of the future technology park in the project "Ecopolis HTZ", a cartographic model of its local geographical position, which determines the utility of such provisions in relation to the main objects of transport, social, industrial and technical infrastructure of the city of Kharkiv (Fig. 2);
- Based on the author's SWOT analysis, the model of the "ideal technology park" with the project "Ecopolis HTZ" (Table 2), which determines that in Kharkiv there is all the necessary potential for the creation of such a proceeding; The prospects for the functioning of which are significant, and the idea itself its creation is socially important, relevant and economically beneficial.