SMART CITY IN ENSURING HUMAN SOCIAL SECURITY IN WAR CONDITIONS

Zakharii S. Varnalii, Taras Shevchenko National University of Kyiv, Kyiv (Ukraine).

E-mail: vzs1955@gmail.com

Oksana V. Cheberyako, Taras Shevchenko National University of Kyiv, Kyiv (Ukraine).

E-mail: cheberyako@ukr.net

Nataliia S. Miedviedkova, Taras Shevchenko National University of Kyiv, Kyiv (Ukraine).

E-mail: nsmedvedkova@gmail.com,

Mykhailo D. Sharkov, Taras Shevchenko National University of Kyiv, Kyiv (Ukraine).

E-mail: misha.sharkov2000@gmail.com **DOI:** 10.32342/2074-5354-2023-2-59-16

Keywords: social security, human social security, threats, smart cities, war, energy saving, public-private partnership

LEL classification: A13, H56, R58, O32

The features of developing a smart city in war conditions are studied. In conditions of danger, the developed infrastructure of the city can help its residents, which is what the "smart city" is focused on in its human-centric approach. The international experience of ensuring the safety and resource-saving of a smart city in emergencies has been studied: initiatives to combine technologies and people; creation of "green" and "smart" construction laboratories; energy resource management system; methods for incorporating technical and social development into improving the quality of life; robotic systems that help to properly use resources in the event of a threat.

The role of a smart city in ensuring a person's social security in the context of a full-scale Russian invasion of Ukraine and the features of cooperation between the private and public sectors when launching smart city initiatives is analyzed. The place of small and medium-sized businesses in the provision of services in the first months of the war was found: providing the population with food and medicine, free travel on some routes, free Internet services in shelters, which helped people receive timely notifications and stay in touch with their relatives.

We concluded that projects that increase the safety of citizens and provide equipment for shelters or their modernization, as well as energy-saving measures, are extremely important in a war. Therefore, ways to balance between human social security and smart city resource saving in times of war include the following: the use of public-private partnership (when private capital is attracted, part of the budget funds is released and can be directed to the implementation of other strategic and important projects in smart cities), providing benefits to projects to improve human security and energy conservation due to damage to energy infrastructure facilities, as well as social projects aimed at improving living conditions and social adaptation of people.

References

- 1. Andriienko A., Mamatova T. (2021) Blockchain technology as a driver for the development of the «smart city» concept. Grail of science. Issue. 2–3. P. 101-106.
- 2. Andriienko, A. O. (2023) Implementation of the concept of «Smart City» in the management of the great cities of Ukraine: monograph / Andrienko A. O. Vinnitsa, Ukraine: GO «European Scientific Platform», 196 p.
- 3. Atamanova N. V., Smyrnov M. D. (2022) Digitization of the state legal sphere in Ukraine. Actual problems of domestic jurisprudence. № 1. DOI: https://doi. org/10.32782/392233.
- 4. Berdanova O. V., Vakulenko V. M., Valentiuk I. V., Tkachuk A. F. (2017) Strategic planning for the development of a united territorial community: textbook. allowance. Kyiv. 121 p.
- 5. Briukhovetska H. Ю., Chernykh O. V. (2020) Industry 4.0 and digitalization of the economy: the possibility of using foreign experience at industrial enterprises in Ukraine. Industry economics. No 2 (90). P. 116–132.

- 6. Varnalii, Z. (2022). Social security of humans as a research object of the science of economic security. University Economic Bulletin, (52), 90-97. https://doi.org/10.31470/2306-546X-2022-52-90-97
- 7. Zhykaliuk, T. (2018). «Smart City»: how it works in Drohobych, the most transparent city in Ukraine. URL: https://dyvys.info/2018/07/20/rozumne-misto-yak-tse-pratsyuye-udrogobychi-najprozorishomu-misti-ukrayiny/
- 8. Appio, F, Limab, M, Sotirios, P. (2019). Understanding smart cities: Innovation ecosystems, technological advancements, and societal challenges. *Technological Forecasting & Social Change* 142: 1–14.
- 9. Baron, M. (2012). Do we need smart cities for resilience? *Journal of Economics and Management* 10: 32–46.
- 10. Carbonnell, Julien (2015). SMART-CITY: Stakeholders roles and needs. URL: https://juliencarbonnell.medium.com/smart-city-stakeholders-roles-and-needs-8e3679764d2a
- 11. Davis, Heather (2017). Smart Cities: Kigali, Rwanda. URL: https://www.national-geographic.com/travel/article/kigali-rwanda-innovation
- 12. Faine misto. Rating "Focus" (2021). URL: https://focus.ua/uk/ratings/495315- rejting-komfortnosti-gorodov-ukrainy-2021.
- 13. Freedman, D.H. (2019). How Medellín, Colombia, Became the World's Smartest City. Newsweek Magazine. URL: https://www.newsweek.com/2019/11/22/medellin-colombia-worlds-smartest-city-1471521.html
- 14. Mace, M. (2017). Test bed: Turning Kigali into Africa's smart cities hub. URL: https://www.edie.net/test-bed-turning-kigali-into-africas-smart-cities-hub/
- 15. Meijer, A. and Bolívar, M. Governing the smart city: a review of the literature on smart urban governance' (2016). *International Review of Administrative Sciences*, 82(2), 399.
- 16. McKinsey&Company: Smart cities need smart governments: 5 places to start (2018). URL: https://medium.com/mckinsey-global-institute/smart-cities-need-smart-governments-5-places-to-start-106080fc23f0
 - 17. ODI (2023). Overseas Development Institute. URL: https://odi.org/en/
- 18. Praharaj S., Han J.H., Hawken S. (2018). Urban innovation through policy integration: Critical perspectives from 100 smart cities mission in India. City, Culture and Society, 12, pp. 35-43, 10.1016/j.ccs.2017.06.004
- 19. Rich, R., Westerberg, P. and Torner, J. (2017). Smart city Rwanda masterplan. UN-Habitat. URL: https://unhabitat.org/sites/default/files/documents/2019-05/rwanda_smart_city-master_plan.pdf
- 20. SmartCity Press (2018). This Smart City In New Zealand Is Developing Around Resiliency Using The Power Of Data. URL: https://smartcity.press/christchurch-smart-initiatives
- 21. The hague academy (2023). Medellin: leading the way for smart and resilient cities. The hague academy for local governance. URL: https://thehagueacademy.com/news/medellin-leading-the-way-for-smart-and-resilient-cities/
- 22. Veselitskaya, N., Karasev, O., Beloshitskiy, A. (2019). Drivers and Barriers for Smart Cities Development. Theoretical and Empirical Researches in Urban Management. Volume 1 4, Issue 1.

Одержано 28.02.2023.