



INFORMATION DIGEST

OF THE CAPACITY DEVELOPMENT PROJECT FOR UTILIZING THE NATIONAL GEOSPATIAL DATA INFRASTRUCTURE IN UKRAINE



DIRECT SPEECH

Dmytro MAKARENKO,
Acting Chairman of the State Service of Ukraine for Geodesy, Cartography and Cadastre

“ After the victory, Ukraine has to launch the process of restoring the destroyed infrastructure, energy facilities, and private housing as soon as possible. The institutional basis for this has to be laid in advance – on Day X we will not have time to do this.

The fundamental parameter underlying any reconstruction and recovery project is the National Spatial Data Infrastructure (NSDI). Beside the applied function in the recovery process, the development of the NSDI has another aspect – European integration, in the context of Ukraine’s future accession to the EU. As a reminder, the INSPIRE Directive sets out the general rules and framework for combining the individual systems developed in each EU country into a PanEuropean NSDI system with its further expansion to a global one.

The officially launched negotiations on our country’s accession to the European Union set a clear deadline for this reform.

Therefore, the development of NSDI has been and remains one of the priority areas for the StateGeoCadastre.

And we are glad that in JICA and other donors we have found a reliable partners who share our aspirations and support us on the way to this goal.

HIGH-LEVEL DIALOGUE

The StateGeoCadastre is in constant dialogue with all stakeholders in the process of NSDI development. Several meetings of the Council for National Spatial Data Infrastructure, established in accordance with the Resolution of the Cabinet of Ministers of Ukraine dated September 9, 2020 No. 812, were held under the chairmanship of the Minister of Agrarian Policy and Food of Ukraine.

The meetings of the Working group for resolving issues in the field of national spatial data infrastructure also are held on a regular basis. The mentioned Group was established by the Order of the StateGeoCadastre dated August 11, 2022 No. 226 (with amendments).

Moreover, 50 online meetings with the Project’s Executor – representatives of the consulting company KOKUSAI KOGYO CO. LTD were held on the Project implementation.

TOPOGRAPHIC MONITORING

Within the framework of the international technical assistance project «The Capacity Development Project for Utilizing the National Geospatial Data Infrastructure in Ukraine» with the support of JICA, 71 map sheets of topographic maps at a scale of 1:10 000 were created for the territory of three cities: Odesa (173.31 sq. km.), Mykolaiv (248.80 sq. km.), and Kherson (87.18 sq. km.), and updated topographic maps at a scale of 1:25 000 on 104 map sheets covering an area of 8 650 sq. km.

Topographic monitoring and monitoring of natural resources use are currently organized to keep the updated cartography actual. This has enabled the process of permanent recording of changes in key parameters and their prompt updating on a map-based basis.



DIRECT SPEECH

Mr. Keiji YAMADA,
Leader of JICA Project Team,
Kokusai Kogyo Co., Ltd

“ Spending almost 2 years since beginning of the project we were focusing on anything we could collaborate with our partners and local external experts in Ukraine under wartime constraints, such as producing the topographic maps covering Odesa, Mykolaiv, and Kherson scale in 1/10,000, the topographic maps covering 8,650 sqkm in scale 1/25,000, such as procuring equipment needed and will be needed for the country, such as producing an online educational resources instead of organizing local face-to-face event.

Although much has been achieved, the project remains a technical cooperation project and essentially requires a variety of face-to-face activities. The project team is carefully replanning to extend the project duration and include on-site activities once travel restrictions are relaxed. The possibility of on-site activities remains fluid, but we are hopeful.

SPECIFICATION



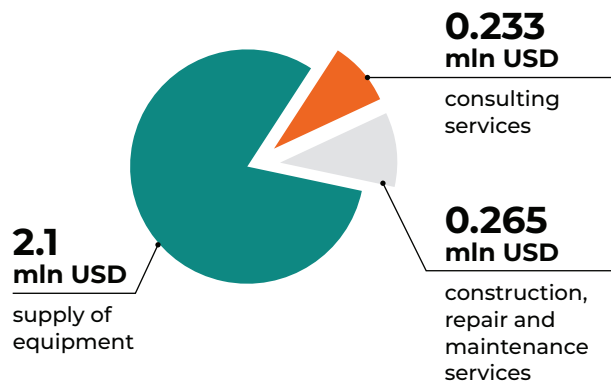
Creation and updating of the topographic maps requires a detailed spatial data specification. This is a geoinformation product that contains a detailed description of a spatial dataset or package of datasets, as well as additional information that ensures and simplifies the supply of data by their holders and their re-use by other users. Currently, the Project experts, led by professor Yuriy Karpinskyi, are working on creating a Specification for geospatial datasets of topographic maps at a scale of 1:10 000, specifically, on a catalog of objects and their attributes to form classifiers and rules for their digital description. This will make it possible to further use the accumulated data and integrate it into a single information array.

BUDGET

The StateGeoCadastre has reported on the allocation of international technical assistance funds during the Project implementation.

As of July 1, 2024, a total of **410 085 864 JPY (2.6 mln USD)** was spent under the Project in particular by categories:

- **36 783 407 JPY (0.233 mln USD)** – consulting services
- **41 761 000 JPY (0.265 mln USD)** – construction, repair and maintenance services
- **331 541 457 JPY (2.1 mln USD)** – supply of equipment



GEOPORTAL

The NSDI can be described as a set of local and national data sets combined into a single National Geoportal.

Every day the system is filled with the most applicable information: boundaries of territorial communities and specific land plots; display of points of invincibility; temporarily occupied lands; analysis of actual crops based on the results of automatic processing of satellite images.

During 2023, the central executive authorities, regional military administrations and territorial communities registered and verified 36 961 metadata on the National Geoportal.

This work does not stop for a minute, thanks in particular to our long-term partners, the Japan International Cooperation Agency (JICA), which provided the Ukrainian counterpart with the hardware and software necessary for the full launch of the National Geoportal.

