ON THE WAY TO IGIF IMPLEMENTATION

UNWGIC, 10 – 14 October 2022, Hyderabad, India

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Ukraine – Brief information

Also Known As UKRAYINA

Capital: KYIV

Official Language: UKRAINIAN

Population over 41 MILLION

Total Area: 603 549 SQ KM

Aspiration: EUROPEAN AND EURO-ATLANTIC INTEGRATION
Ukraine NSDI context

- The Law on NSDI was adopted
- NSDI Council was established
- SE «RIGC» was appointed NSDI Geoportal Administrator
- CMU Resolution for NSDI operation was approved
- Successfully implemented the innovative pilot project of the NSDI National Geoportal
- Country Assessment and IGIF Implementation in the framework of Norwegian Support
- Main State Topographic Map scale 1:50 000 has been created (updated)
- GNSS network development (20 StateGeoCadastre`s Regional Offices + 40 Norwegian + 20 Trimble).
Baseline assessment in 2021

**Strengths**
- Legal and policy
- Digital transformation
- International donor support
- Capacity development

**Weaknesses**
- No sustainable business model
- Lack of up-to-date fundamental geospatial data,
- Under-developed partnerships between public and private sectors
- Lack of communication strategy

Total score 35
Stakeholders concerns

“Lack of comprehensive information about what NSDI is and what is the key goal”

“Mistrust of how the data would be used”

“Hardware and capacity challenge”

“Knowledge gaps of data producers on standards”

“Strong necessity of a single address registry and topographic map with a scale of 1:10 000”
THE PRESIDENT HAS SPOKEN ABOUT NSDI AS AN “INVENTORY OF THE NATION”

Key observations:

- Ukraine has a **mature history of NSDI understanding**
- The role of Government in NSDI evolution needs to **change from focusing on collecting data to collating and distribution**
- The strong role public policy in **stimulating innovation** is being supported by Government but NSDI is not central to this initiative
- Partnerships between public sector bodies and with the private sector will be important going forward but **currently lack depth and levels of trust** to support rapid progress
- A **sustainable NSDI is achievable over the next 5 years** but can only be achieved by sustained participation of all stakeholders and the high profile
Alignment to Policy Drivers

1. EU Integration
2. Land Reform
3. Digital Transformation
4. Decentralization
5. Infrastructure Development (including transport)
6. Energy
7. Environment
8. Public Health
9. Education, Science, and Innovation
10. Culture and Tourism
11. Defense and Intelligence
# Socio-Economic Benefit Analysis and Use Cases

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**TOTAL NET BENEFITS**: 8235 USD, 302 mln
Country Action Plan

Draft Recommendations for 5-year period of investment

- Agreement of Geospatial data sharing protocols to reduce costly data duplication and improve quality and consistency
- Completion of the Land Cadastre for all parcels
- Create a single National Geocoded Street Address database
- Define and implement a sustainable business model for the NSDI
- Enhancement of the geodetic framework including the network of Continuously Operating Reference Stations (CORS)
- Build a Scalable National Geoportal providing online access to fundamental geospatial data through web viewing and APIs
Draft Recommendations for 5-year period of investment – Continued

- **Digitization and Quality improvements** for additional fundamental geospatial data themes
- **Sponsoring innovation** in the development of new applications using the NSDI
- **Adoption of international data specifications** for foundation themes and creation of national profiles where necessary
- **Upskilling Government Agencies**, including but not limited to SGC, to be able to provide leadership and coordination more effectively
- **Growing the geospatial ecosystem** by partnering more effectively with a wider range of users, particularly in the commercial sector
- **Raising the profile of NSDI based on a wide ranging communications strategy**, stressing messages of its role in digital transformation and positive impacts it brings to many sectors of the economy
Challenges during the war

From February 24, 2022 NSDI Geoportal is working in a limited access mode

StateGeoCadastre is on the way to re-think the chosen NSDI model concerning the data transparency to public

Registration & Verification of amalgamated territorial Communities on the NSDI geoportal

Limited state budget resources as a consequence of martial law and urgent defense needs

For defense and reconstruction Ukraine needs updated maps at scales of 1:10 000 and 1:25 000

During the war, an urgent issue has arisen regarding the protection and preservation of data
NSDI as the instrument for successful post-war reconstruction

The Portal for monitoring the state of social and administrative infrastructure of the regions affected by the Russian invasion was created on the basis of the NSDI Geoportal, which contains:

- Register of objects and destructions
- Register of restoration objects
- Interactive map

The National Council for the Reconstruction of Ukraine has developed the Action Plan for post-war reconstruction and development of Ukraine, which includes item "Mapping of the territory of Ukraine and creation of the National Geospatial Data Infrastructure"
Further StateGeoCadastre`s activities

New International Technical Assistance Project «Capacity Development Project for Utilizing the National Spatial Data Infrastructure» was launched, 07.02.2022 - 28.02.2025 (37 months).

Overall objective of the Project: Improving the access of Ukrainian citizens to basic and comprehensive information on natural resources, roads, cultural heritage sites, etc. that is necessary for economic and social activities of the population.

The Project also contains the initiative of rapid topographic mapping of the territory of Odesa, Kherson and Mykolaiv at a scale of 1:10 000 for post-war reconstruction.

Within the framework of the Memorandum of Understanding between the StateGeoCadastre and the Netherlands Agency for Cadastre, Land Registry and Cartography on institutional and partnership cooperation in the field of National Spatial Data Infrastructure, the potential direction of cooperation regarding knowledge exchange on created/updated 1:10 000, 1:25 000 scales maps is in the process of discussion.

Discussion of the draft document «Towards a sustainable geospatial ecosystem beyond SDIs»
Organization of the future training course «Geospatial data specification» for Ukrainian experts
Initiative of signing the joint Memorandum
THANK YOU for your attention!

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