Global Geospatial Frameworks enabling the geospatial ecosystem development in Ukraine

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4th of May 2023, Rotterdam, the Netherlands
Ukraine – general information

Whole area **603 549 km²**

**5.7%** of the European territory

~ **20 % (123.2 km²)** is occupied by Russia

~ **5000** missile rockets during

**435** days of military aggression of Russia
18 years NSDI initiatives development

The first fundamental concepts on NSDI had been developed even before the INSPIRE directive was adopted

4 attempts of draft law adoption

"Nothing personal". Mostly due to political instability on the highest level

Low awareness about NSDI topic on the high political level

"Social" initiatives clearly were more sensitive to the potential electorate

No political drivers to take the NSDI initiative on the top priority

Absence of the political will for the Land Reform finalization. The initiation of the decentralization reform in 2015
IGIF incorporation to the current NSDI process

Well received by the Ukrainian geospatial community, but with no clear vision, knowledge and expectation of the final goal

2019 – the first, trial or “internal” IGIF assessment done, but with limited stakeholders
2021 – a complex IGIF assessment supported by the Norwegian Government

The most frequent objections:

“Why do we need that IGIF methodology?”
“We have everything (strategy, legal drafts, etc) in place”

“Who will do that?”
“Let’s put the score higher”

“Why you are trying to blame me?”
“Why should I care if that is not in place?”

Baseline assessment
Alignment to policy drivers
IGIF Action Plan
Socio-economic analysis
Investment and implementation
Challenges while assessment and IGIF Results for Ukraine 2022

Level of the stakeholders to authorize release of requested information

Mistrust of how the information would be used.

Low belief in the study results implementation

Limited data on governmental performance
(necessary reports, research, and analysis incomplete or unavailable)

Total score 35
Key recommendations based on the IGIF assessment

**Governance**

- Create an **effective coordination group**
- Harmonize the **legislative framework**, missing sub-laws and regulations
- Agreement of Geospatial **data sharing protocols** to reduce costly data duplication
- Define and implement a **sustainable business model** for the NSDI

**Technology**

- Enhancement of the **geodetic framework including CORS** with public and private sector network operators
- Build a **Scalable National Geoportal providing online access** to fundamental geospatial data
- **Review the market requirements for National Topographic Base mapping.** Continuation with the current approach of universal 1:10,000 scale maps with larger scales in urban areas, is likely to be unaffordable. Alternative “fit for purpose” approaches leveraging global best practice need to be urgently investigated
- **Completion and verification of the Land Cadastre** for all parcels and make it openly available
- Create a single **National Georeferenced Street Address database**
- Sponsoring innovation in the development of **new applications using geospatial data**
- **Adoption of international data specifications**

**People**

- **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
NSDI development plan for Ukraine was adopted by the NSDI council in October 2021:

Actions were grouped according to the IGIF pathways and gap analysis

No single budget foreseen for the overall Plan implementation

“Advisory” formal status of the plan

Challenges:

Budget constrains due to russian military aggression

Changing of the top priorities at the government and ministries

Lack of political pleasure to the key stakeholders

NSDI development plan for Ukraine ≠ IGIF Action plan.

But it reflects main IGIF recommendation and structure
**NSDI of Ukraine in 2022 – 2023**

- **Feb 2022**: Suspension of the pilot NSDI geoportal and all cartographic resources of Ukraine.

- **July – August 2022**:
  - Development of user registration and verification tool at the geoportal.
  - NSDI technical WG re-established.

- **September 2022**: Relaunching of the geoportal in restricted mode.

- **Oct - Dec 2022**: Facilitation the registration of the data holders from central and local level.

- **January 2023**:
  - Digital data sets from the 50k Topographic Data base available from the geoportal.

- **February 2023**: Geoportal ToR developed.

- **March …. 2023**: Negotiations on the budget allocations ongoing.

- **NSDI Council Meeting**
  - Implementation of the industrial version of geoportal.
  - 1st training for data holders completed.
NSDI main KPIs 2022 – 2023

USERS OF THE GEOFORCE:

16 Central Executive Authorities (66%)
15 Oblast State Administrations (60%)
986 Territorial communities (67%)

DATA OF THE GEOFORCE:

20 national wide data sets
(available from the updated Main state topographic 50k map)
Geoportals of the data holders are restricted for the public use

PRACTICAL USE CASES WITH THE DATA:

Technical capabilities for making management decisions using NSDI data have been introduced by the principle:

- nationwide data for the entire territory of the country
  (territorial units, occupied or blocked areas, points of invincibility, land boundaries)
- spatial analysis of information in a point
  (community passport, soils, buffer zone for invincibility points, land parcel check, buffer zone for social objects, damages)
What is necessary for the leapfrog of NSDI?

**Geodata of high quality**
for authorities and territorial communities

**Sustainability**
of the activities not to lose the achieved progress

**Secured financing**
for the creation and operation of NSDI

**Practical use-cases**
for the creation and operation of NSDI

**Education and learning**
for data holders to understand the benefits of the geodata utilization
THANK YOU FOR ATTENTION!

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