IGIF: national initiatives & progress

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Current challenges

- Not systematic approach to creation, updating and integration of geospatial data
- Duplication of works at national and municipal level
- Not effective utilization of human and financial resources
- Frozen potential of e-governance and public control
- Restricted access to the information of public sector
- Not relevant level of coordination between data holders
Integrated Geospatial Information Framework – a perfect tool ...

At 8th UN-GGIM meeting in August 2018 part 1 of IGIF “Overarching Strategic Framework” was adopted

p. 2 «National implementation guide»
p. 3 «National or Regional action Plans»

9 STRATEGIC PATHWAYS WERE IDENTIFIED:

1 Governance and institutions
2 Legal and Policy
3 Financial
4 Data
5 Innovation
6 Standards
7 Partnership
8 Capacity & Education
9 Communication & engagement

What is there in geospatial Ukraine now?

TOTAL SCORE: 38

STRATEGIC ACTIONS IDENTIFIED:

- National Geospatial Information Strategy
- Adoption of the NSDI Law
- Development of Order for NSDI Administration
- Raising awareness about NSDI in general and digital initiatives
- Engagement of stakeholders (central and municipal governmental sectors and then - private)
- Practical cooperation between data holders
- Transformation of NSDI subgroup into the technical working group and establishment of high level coordination committee
Geospatial Information Strategy of Ukraine

Draft NSDI concept – 2018 suggested:

- Legislative alternative
- Pilot-based approach
- Finally launch practical creation of typical components of NSDI (updating of cartographic base for pilot regions, creation of data bases, services etc.)
- Distribution of responsibility between central and local authorities
- Establishment of coordination and technical groups for NSDI
- Interoperable geospatial data bases creation
- Creation of typical solutions for geospatial modeling and forecasting for managerial SDGs to be achieved with help of geospatial data
- IGIF components in details: each pathway should have clear ToR and Action Plan to be implemented
- Monitoring for implementation of the Strategy

Relevance to Concept of Digital Transformation of Ukraine, Open Data Policy
Relevance to other concepts in terms of data use and production in Ukraine
Raising awareness plan for each component

NSDI operational model according to the new NSDI draft law (2019)

- The Cabinet of Ministers of Ukraine
- Authority, responsible for the implementation of the state policy
- Authority, responsible for the implementation of the state policy
- NSDI Coordinator
- Data holders & producers

NSDI Administrator

Metadata

Funding for NSDI creation

1. State budget
2. Local budgets
3. International aid

NSDI

 fundamental spatial data

Profile data

Metadata

Services

NSDI Standards

- Publication at their own web sites
- Access via NSDI geoportal
- "Open data" principle
- Most data are free of charge
Norway project “Maps for sustainable land governance”

**General Objective:**
To create the digital topographic base map (1:50 000) & develop the state GNSS network in Ukraine.
Duration – **2.5 years** (April 2018 – Dec 2020),
Budget – **36.7 min. NOK** (app. **4.5 min. USD**)

**Partners from Ukraine:**
State Service of Ukraine for Geodesy, Cartography and Cadastre

**Partners from Norway:**
Donor: Norwegian Ministry of Foreign Affairs (NMFA)
Implementing Organization: Norwegian Mapping Authority

**Components & expected results:**
- Digital maps production/updating 1 : 50 000
- Integration of existing maps and into seamless database
- Solutions for effective access to the maps (geo-portal)
- GNSS network establishment
- Staff training

**In total Ukraine will receive:**
- **1 288** topographic maps sheets of 1:50 000
- **60** + GNSS stations

Norway project : development of partnership

**I PRIORITY**
IGIF developments and implementation
- Initial assessment on IGIF in Ukraine with participants from Ministry of Defense, State Statistics Service and State Road Administration;
- Study Tour to Georgia for **8** participants from Ukraine
- Joint event under Norwegian “umbrella” on registers development to be organized in early 2020.

**II PRIORITY**
Facilitating the cooperation

**III PRIORITY**
Raising awareness for all stakeholders
- Training
  - PR campaign to attract more participants and data holders to the process and explain more about what we are doing
  - Training on different areas will be conducted
Geoportals that are operating

- Geoportal of administrative territorial units of Ukraine
  http://atu.gki.com.ua
- Geoportal of state geodetic network of Ukraine
  http://dgm.gki.com.ua
- Geoportal of state cartographic and geodetic fund of Ukraine
  http://geodata.land.gov.ua
- Geoportal of NSDI prototype
  http://nsdi.land.gov.ua
- Geoportals of municipalities

Maps updating and Lidar scanning 2019-2020

Orthophotos 1:10 000, digital terrain model and digital topographic maps are being created

I STAGE

During 2019

42 000 sq. km.
Lviv and Volyn oblasts

II STAGE

During 2020

425 500 sq. km.
Data in State Land Cadastre

State Land Cadastre contains:
- Administrative boundaries
- Index cadastral map
- Orthophoto
- Land parcels
- Agro-industrial soil groups
- Restrictions in land use
- Normative monetary land valuation

Data about ownership rights are received from Ministry of Justice automatically.

Ownership rights registration
Real estate cadastre
Address registry

Improvement of state land cadaster & data integration initiatives

During September-November the bilateral agreements were signed with:
- State Water Agency (data on water resources)
- State Subsoil Agency (data on special licenses issued)
- Ministry of Energy and Environment (data on natural-protected fund & emerald network)
- State Forest Agency (data on forests)
- State Emergency Service (no data yet)
- Hydro-Meteorological Centre of Ukraine (no data yet)

State Statistics Service
State Road Administration
Coordination committee and technical working groups

**Challenges:**
1. Not enough capacity to organize and hold the meetings.
2. Low level of involvement from the stakeholders.
3. How to attract private sector and NGO and preserve the initial goal?

**Topics that were already covered by the SubGroup:**
1. NSDI Strategy
2. Geospatial Data Standards
3. Draft Law on NSDI
4. IGIF issues
5. Authoritative Data
6. Messages from EU and global geospatial community
7. Standards

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**Questionnaire for the SubGroup Members**

What is your level of knowledge regarding ISO standards, INSPIRE specifications and standards that are accepted in Ukraine on the mentioned basis?

5 відповідей

- High
- Medium
- Low
Conclusions

- Not clear final goal for all stakeholders
- Very contrasting environment in development of geospatial information
- Not sufficient capacity at “NSDI champion” to address all challenges
- Extremely high competition between public authorities and even state enterprises (data producers)
- Comprehensive training is needed for all stakeholders in conceptual issues, technical and language skills

Thank you!

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