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The impact of Geospatial Knowledge Infrastructure in Ukraine



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Geospatial World Forum
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Milestones of NSDI development

STATEGEOCADASTRE

DIGITALIZATION • DEREGULATION • DESHADOWING

The World Bank Project on Cadastre development

Joint project with JICA on creation NSDI prototype in Vinnytsia oblasts and Fastiv city

The law on NSDI was adopted

The portal for NSDI pilot project and draft Resolution for NSDI operation was developed

The 1:50 000 was upgraded

2000
2003

2004
2012

2013
2018

2014
2018

2018

2020

2021

2022

Ukrainian-Swedish Project On facilitation of conditions for NSDI development in Ukraine

Ukrainian-Canadian Project for experts in GIS “Laying the Foundation for a Spatial Data Infrastructure”

Norwegian donor project was started implementation

NSDI Council was established

SE «RIGC» was appointed Administrator of the NSDI national geoportal

Main provisions:

- All geospatial data are open, free and in public access
- Definitions of "core" and "profile" data are given
- Annexes with INSPIRE data sets are included
- Geospatial data will be in the format in which they were created
- In accordance with INSPIRE services will be provided
- The administrator collects metadata, administers the NSDI geoportal and provides easy data search
- Data holders are obliged to promulgate geospatial data at their websites/geoportals



NSDI creation means:

- To comply with INSPIRE Directive and Open Data
- Free georeferencing data



NSDI creation **DOESN'T** mean:

- To collect all data in single register
- To change the usage mode of geospatial data
- Changing the use of geospatial data

Data sets

CORE DATA

1. Coordinate reference systems
2. State border of Ukraine
3. Administrative units
4. Agglomerated territorial communities and its boundaries
5. Settlements and their road-street network
6. Buildings
7. Hydrography
8. Transport network
9. Rail roads
10. Utilities
11. Airports, seaports, riverports
12. Vegetation cover and soils
13. Land plots
14. Addresses
15. Geographical names
16. Digital terrain model
17. Orthophotoplans

PROFILE DATA

No limits for profile data sets

Different coverage area that depends on needs and purposes, for example:

1. Tax zones
2. Road traffic accident
3. Demographic data
4. State/municipal expenses
5. Fly dumpings

34 data sets are included into the law in accordance with the INSPIRE Directive

The Pilot NSDI Geoportal launched



<https://nsdi.gov.ua/>

708 data sets are available

111 data sets are available for downloading in vector form

657 data sets are available for reviewing

28

National level

35

Regional level

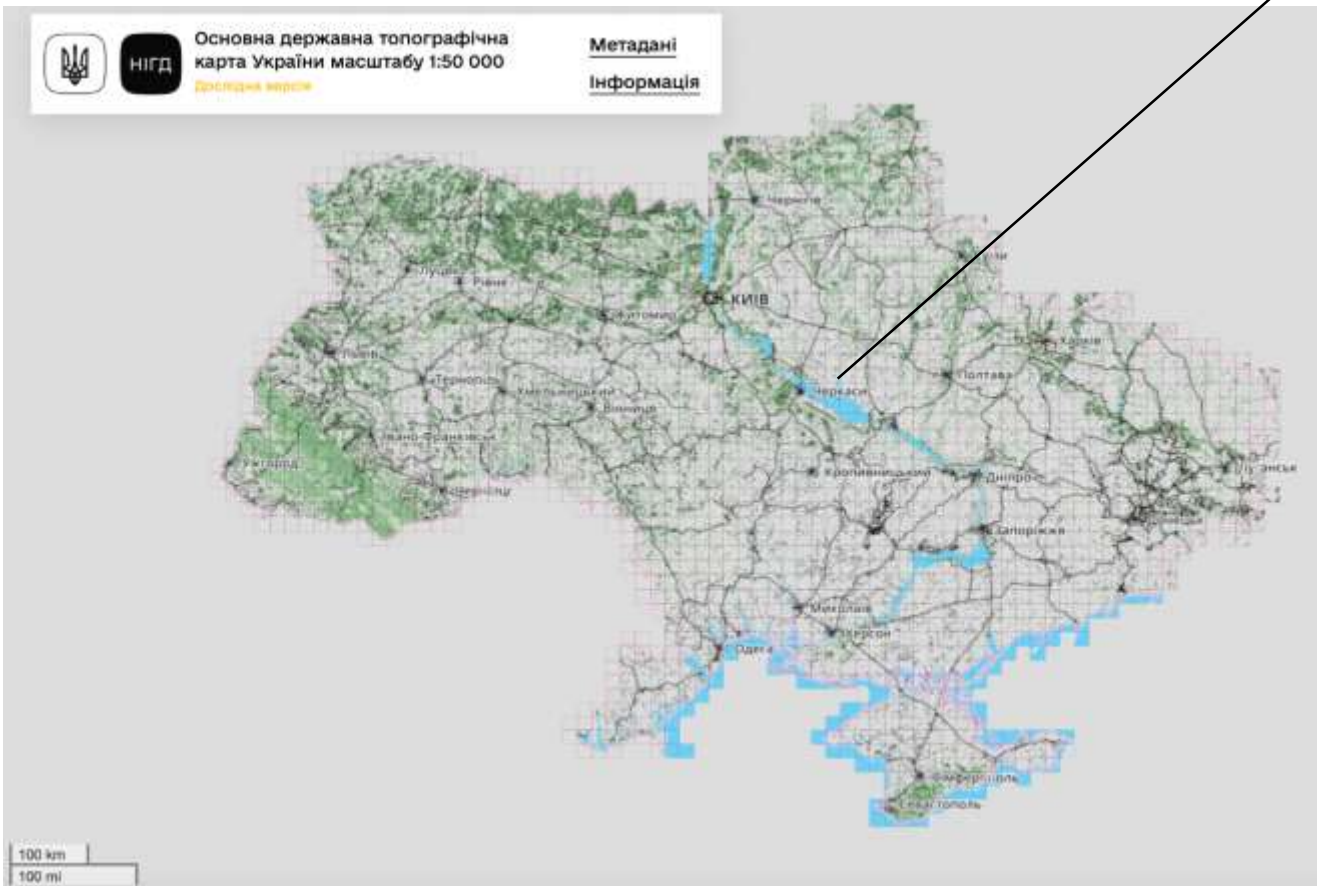
644


Local level

The Main State Topographic Map scale 1:50 000 and access to it on NSDI pilot project geoportal



Maps for Good Land Governance Project



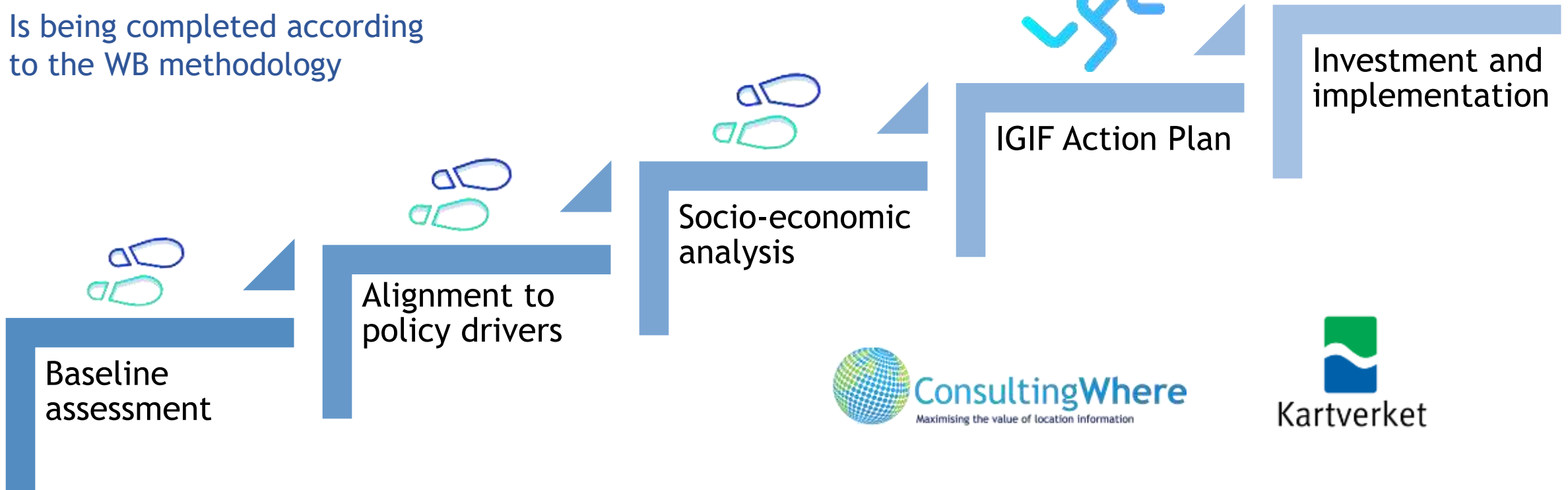
 **1,288** digital topographic maps
at the scales of 1:50 000/1: 10 000

 **60+** GNSS stations

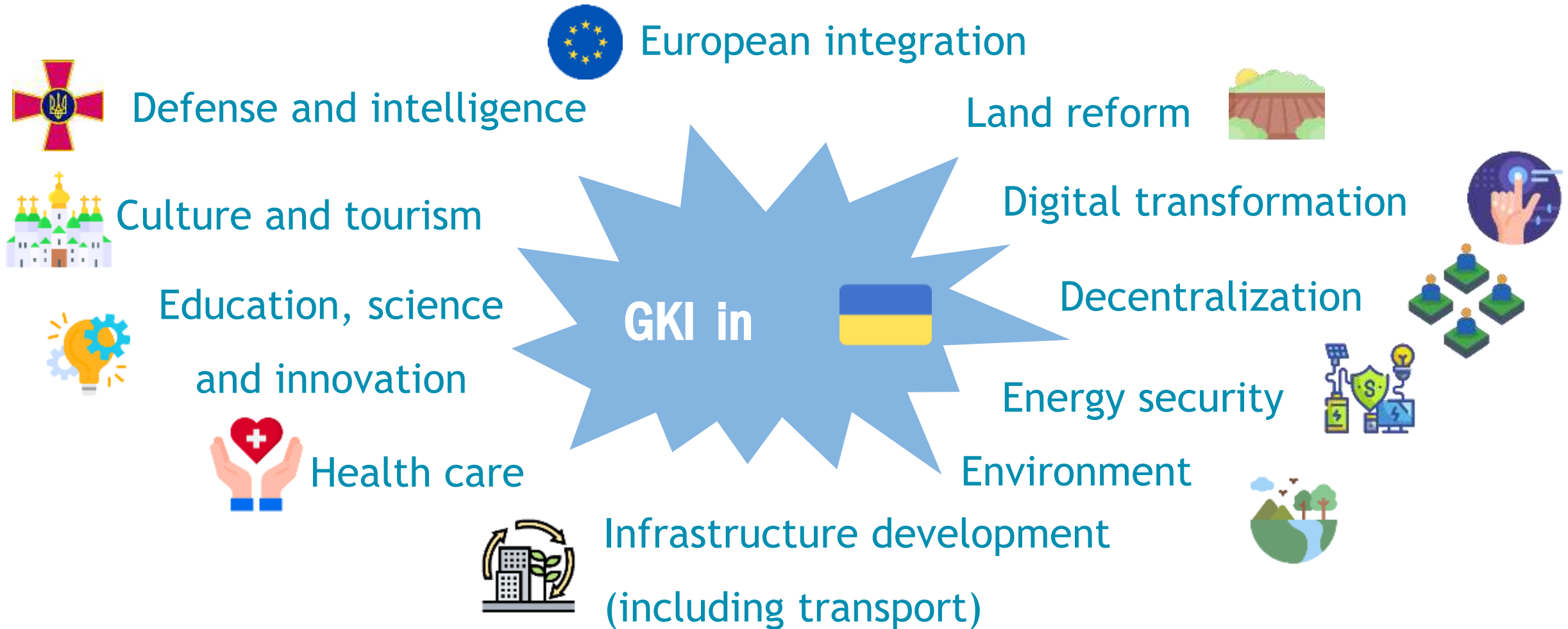
2019 - the first, “internal” IGIF assessment done

Feb-Dec 2021 - the second IGIF assessment of Ukraine is supported within the Norwegian “Maps for good land governance project”

Is being completed according to the WB methodology



On the way to GKI



The sectors are listed in accordance with the Government Action Plan for 2021

These sectors are those where geospatial information in general and NSDI in particular can have the most significant and positive impact.

Challenges during attacks on Ukraine

From February 24, 2022 services are not provided.



All open resources are suspended.



We did everything possible to prevent Russia from using the data



Cooperation with the Armed Forces of Ukraine:

- ✓ Support
- ✓ Advisory
- ✓ Financial



EUКРАЇНА



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THANK YOU
for your attention!

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