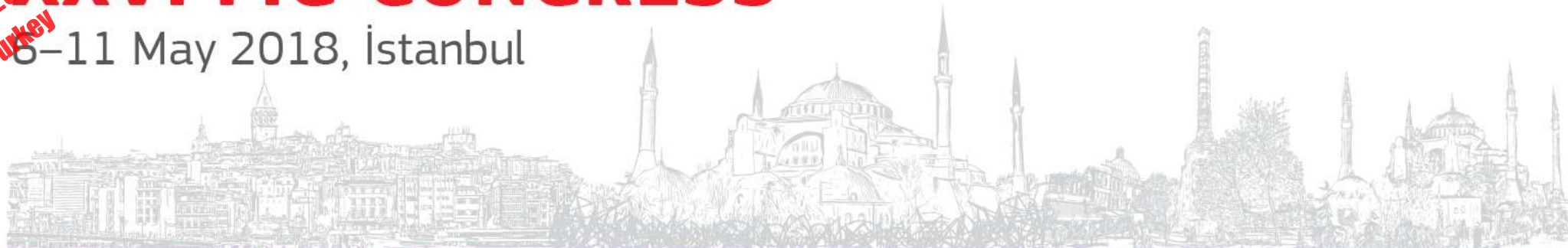


**FIG**  
2018  
ISTANBUL

Presented at the FIG Congress 2018  
May 6-11, 2018 in Istanbul, Turkey

# XXVI FIG CONGRESS

8-11 May 2018, İstanbul



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# The Importance of NSDI – Case of Georgia



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Ekaterina Meskhidze  
PhD Candidate, Tbilisi State University  
10 May, 2018



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2-4 October 2018, Istanbul

# WHY IS SPATIAL DATA SO IMPORTANT?



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# DIGITAL ERA

**Spatial data has a significant effect on many fields of public activity such as:**

- *Business*
- *Economy*
- *social life and politics*
- *emergencies as well as when planning preventive measures*



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# Natural Hazards in Georgia



## MAIN PROBLEMS AND CHALLENGES

Legislative and Institutional Framework

Policy

Intergovernmental Coordination

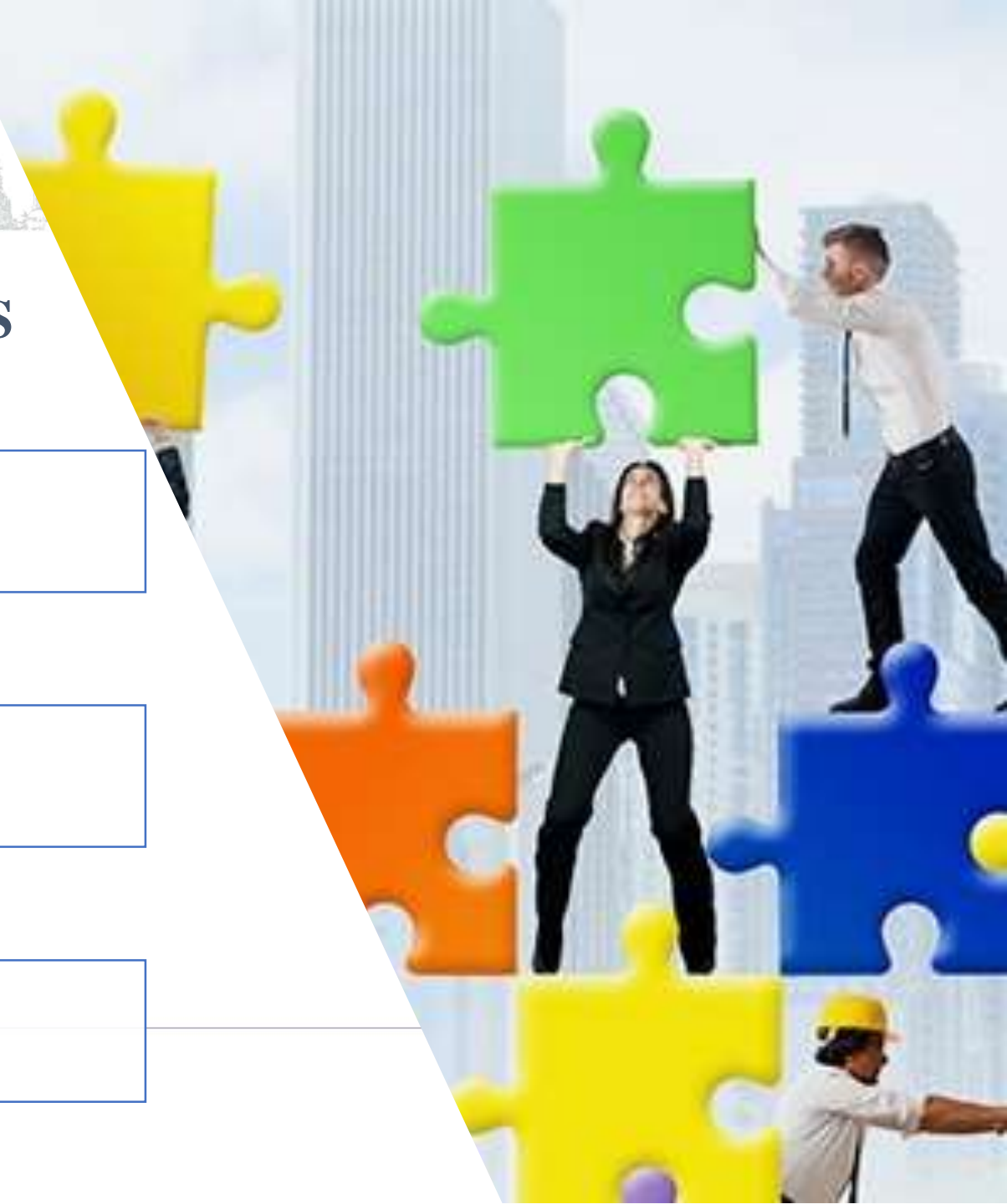
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# DISASTER RISKS IN GEORGIA AND ACCESSIBILITY OF GEOSPATIAL DATA



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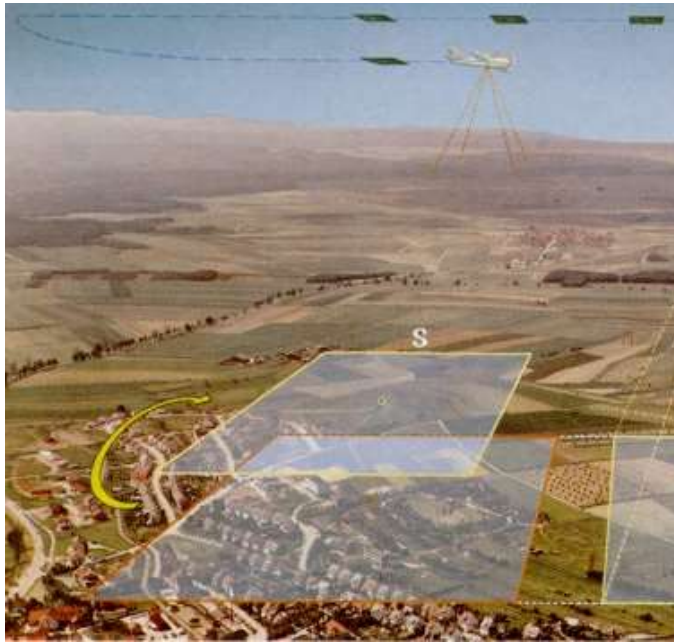
## Flood in Vere River Valley



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## Development of Orthophotos Kartverket /Norwegian project 2015-17



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**Vere Valley Basin Before**



**Vere Valley Basin after**



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## Equal Access to Resources and Opportunities during disasters

We cannot stop natural disasters but we can arm ourselves with knowledge: so many lives and livelihoods across the World wouldn't have to be lost if there was enough disaster preparedness



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## Association Agreement EU-Georgia

Cooperation involves the following objectives:

- *Cooperation in the disaster risk reduction format;*
- *Information (geospatial), education and communications;*
- *Best practices aimed at reducing natural disaster prevention or disaster impacts;*
- *Cooperation to improve the information base on catastrophe, threats and risks assessment management;*
- *cooperation on environmental and public health in the direction of disaster assessment*



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## SDI for effective land administration





# Pilot Project of Initial registration of lands



No	Municipality	Pilot Project Ares
1	Dedoplistskaro	Arboshiki
2	Dedoplistskaro	Arkhiloskalo
3	Gori	Karaleti
4	Gurjaani/Sagarejo	Jimiti/Mzsiguli
5	Martvili	Vedidkari
6	Mestia	Lakhamula
7	Mtskheta	Saguramo
8	Shuakhevi	Daba Shuakhevi
9	Tetritskaro	Daba Manglisi
10	Tianeti	Zaridzebi
11	Vani	Salkhino

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## Land conflicts - Mediation

The new mechanisms are introduced in registration process, such as:

- mediation/notary mediation
- service of “Statement of Facts”
- new standard of cadastral survey/measurement
- certification of surveyors
- legalization of deficient documents,
- confirmation of location of land parcel by a representative of municipality
- fast and free-of-charge consideration of a case on illegally occupied land parcel
- possibility to register 15% more of the agricultural land parcel area indicated in a document.



“Normally, a little conflict like this would be easy to resolve.”

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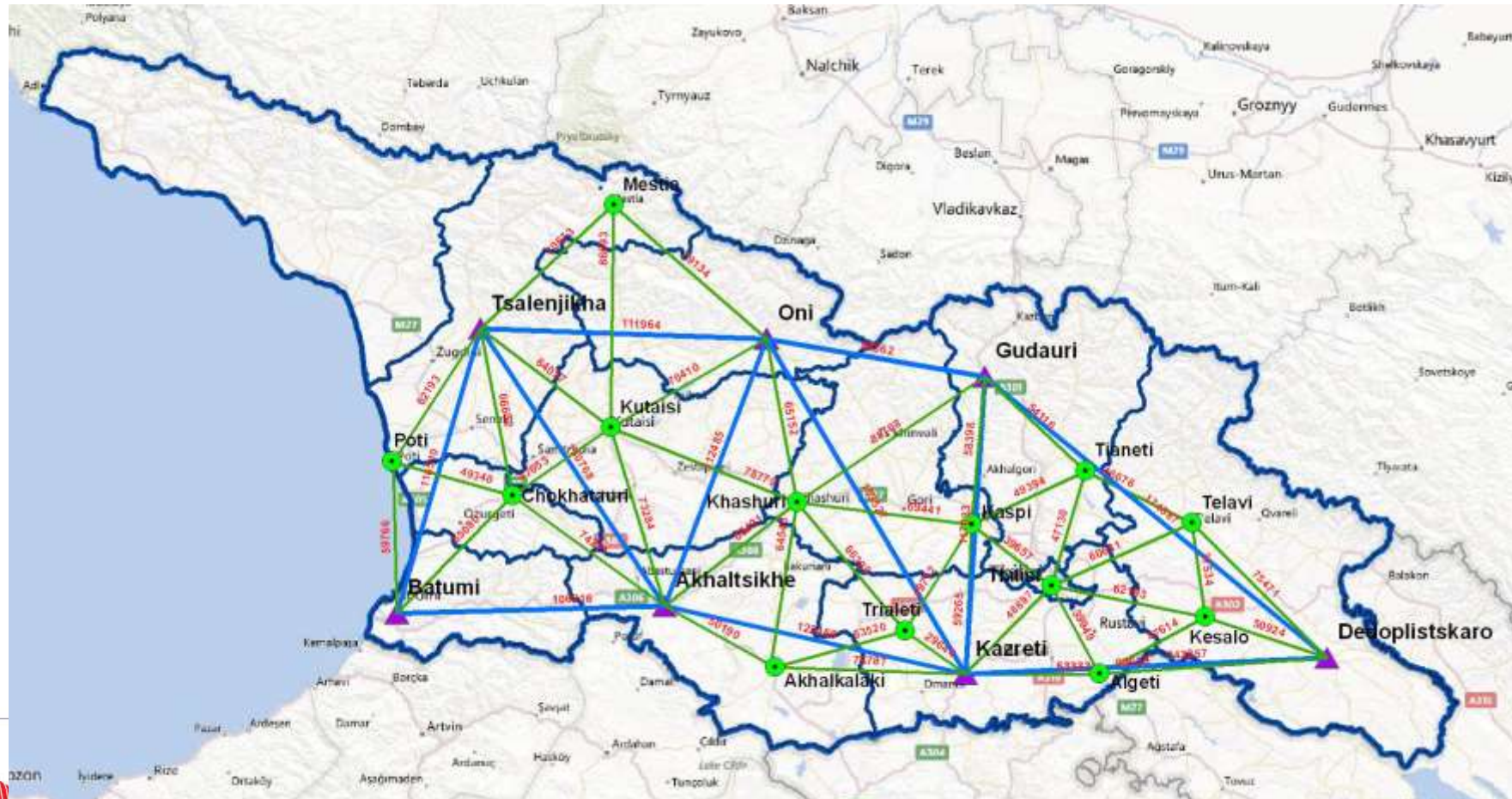
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# GEOCORS



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# SDI Benefits



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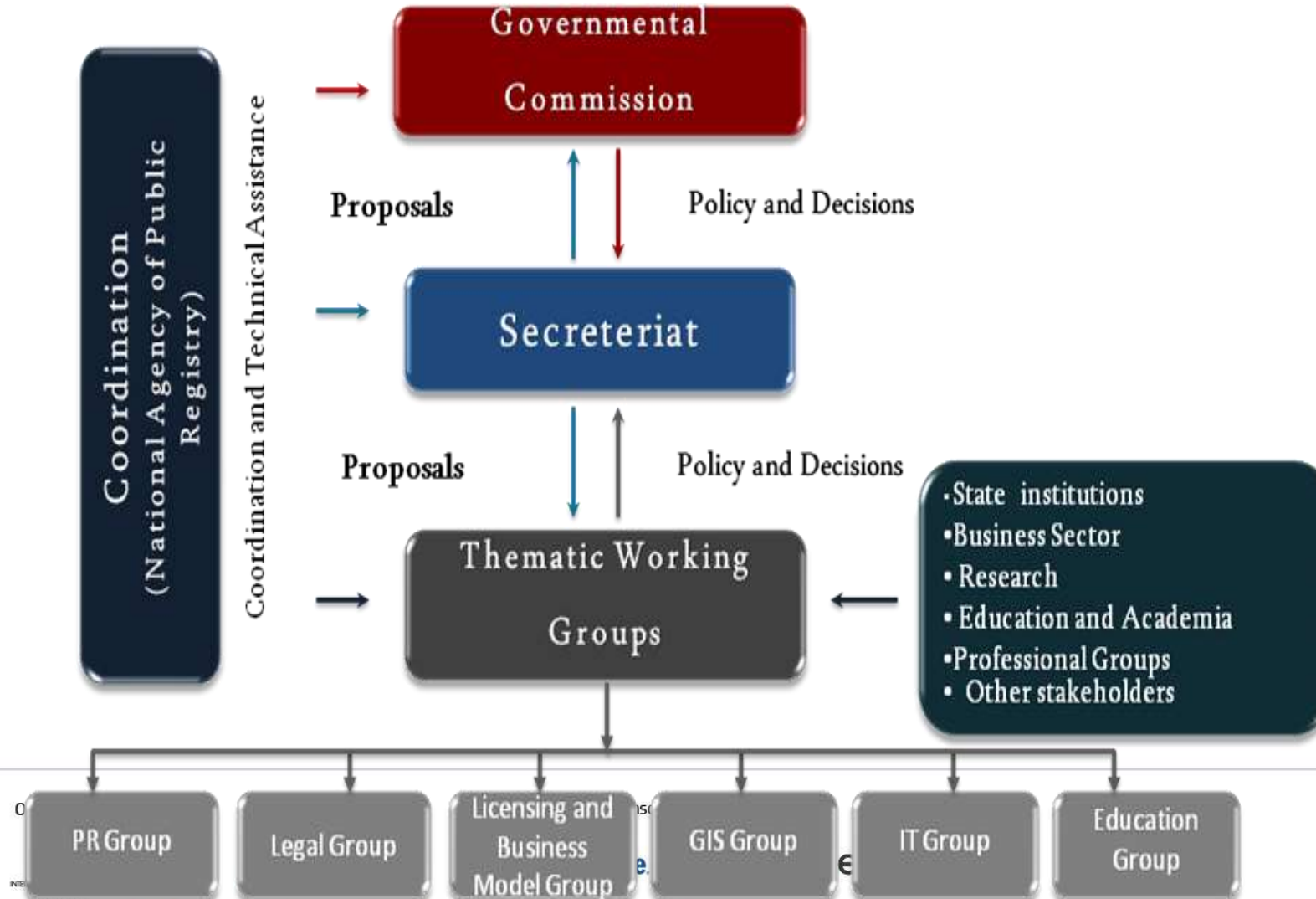
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# NSDI - Institutional Structure

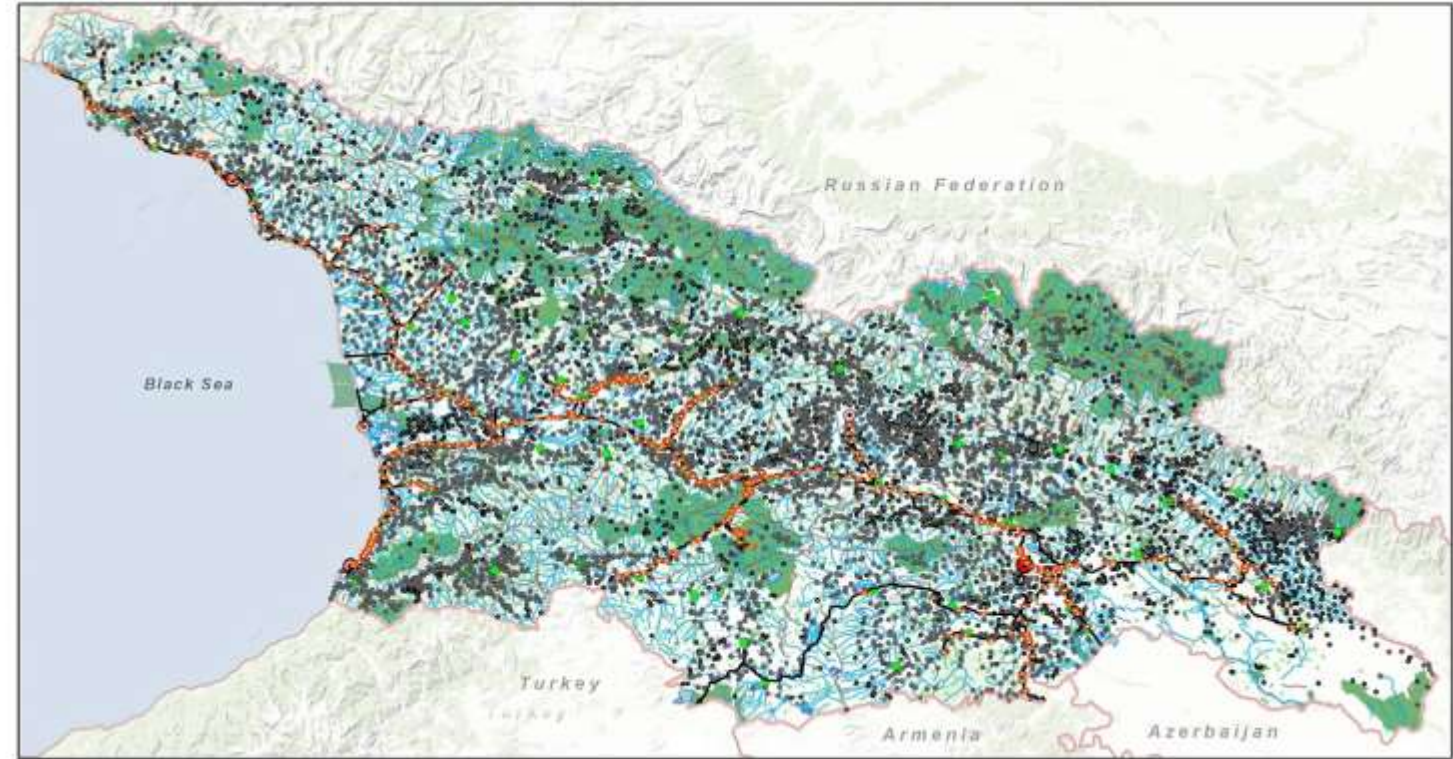




# NSDI project: implemented and ongoing activities

## Development of Basemap:

- Administrative unit
- Populated points
- Toponymy of Gori Geographical objects
- Transport network
- Communication network
- Points of Interest
- Navigation system



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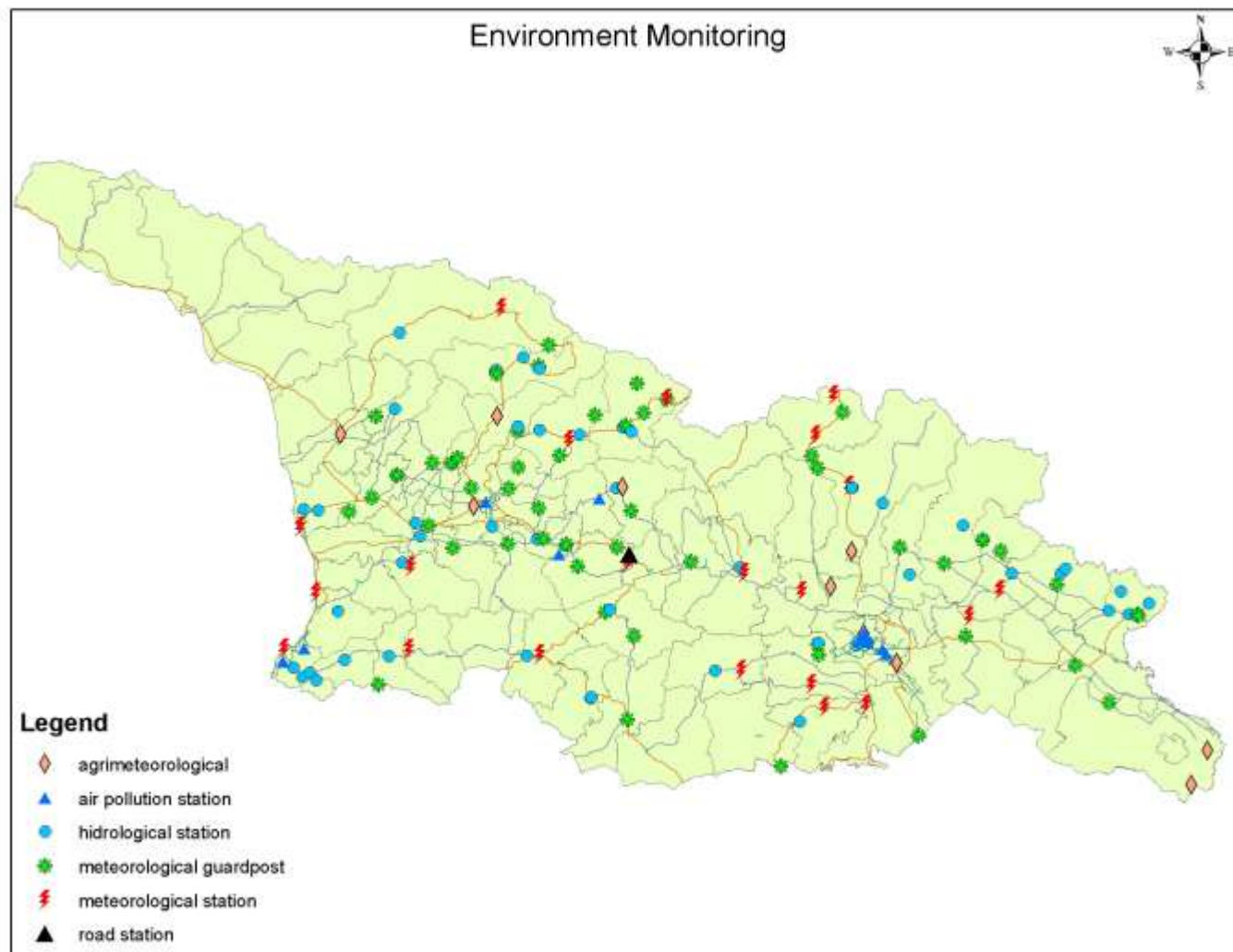


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# NSDI project: implemented and ongoing activities

- Draft law on creation of Georgian NSDI
- Regulation of Metadata creation for Georgian NSDI;
- Specification and Data Catalogue;
- Metadata standards (based on ISO19123 and INSPIRE);
- Metadata editor (GeoNetwork);
- WMS/WFS services for data view/download;
- Pollution monitoring map



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## Key problem areas for demonstrating the benefits of data sharing were identified:

- Demonstrate the benefits of data sharing and NSDI
- Setting up the initial components of NSDI, assuring the project results to be sustainable, including
  - Organizational framework including roles and responsibilities for the full implementation and operation of NSDI
  - Legal framework
  - Technical framework
  - Data sharing principles and data security management
  - Initial business model and commercial vision
- Identify current limitations in data (availability of data, data quality, usability of information etc.)



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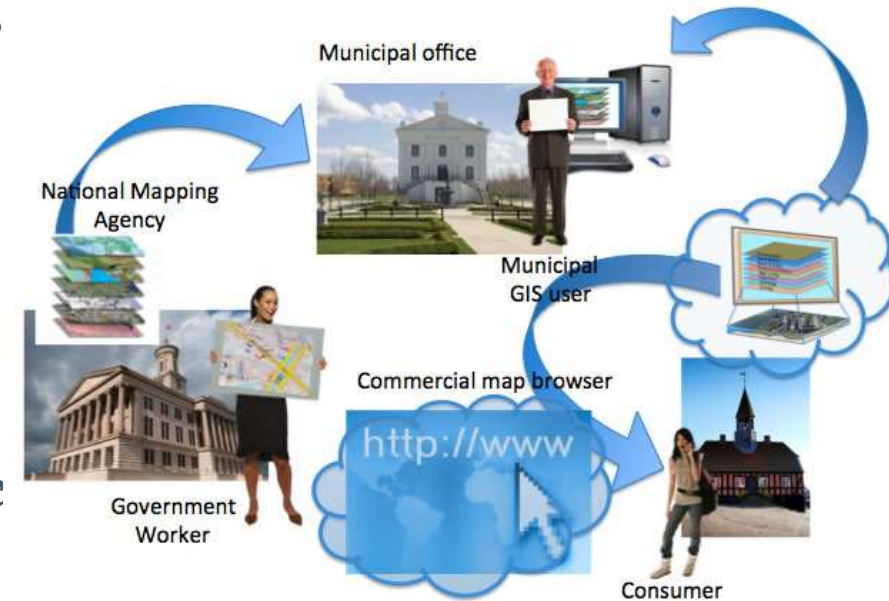
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**Establishment of the unified National Spatial Data infrastructure (NSDI) in Georgia, which will operate on governmental, sectoral and municipal levels, will ensure:**

- Optimal planning for efficient use of the resources in the country and effective management of the processes;
- Support the development of e-governance and the state authorities in spatial data creation and management;
- Reduce costs for data collection and maintenance by avoiding duplication of work and establish efficient co-operation between data producers at local, regional and central level;
- Systematization and standardization of the national basic spatial data and metadata and making them as close as possible to the European requirements;
- Integration of NSDI in regional and European infrastructures



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