

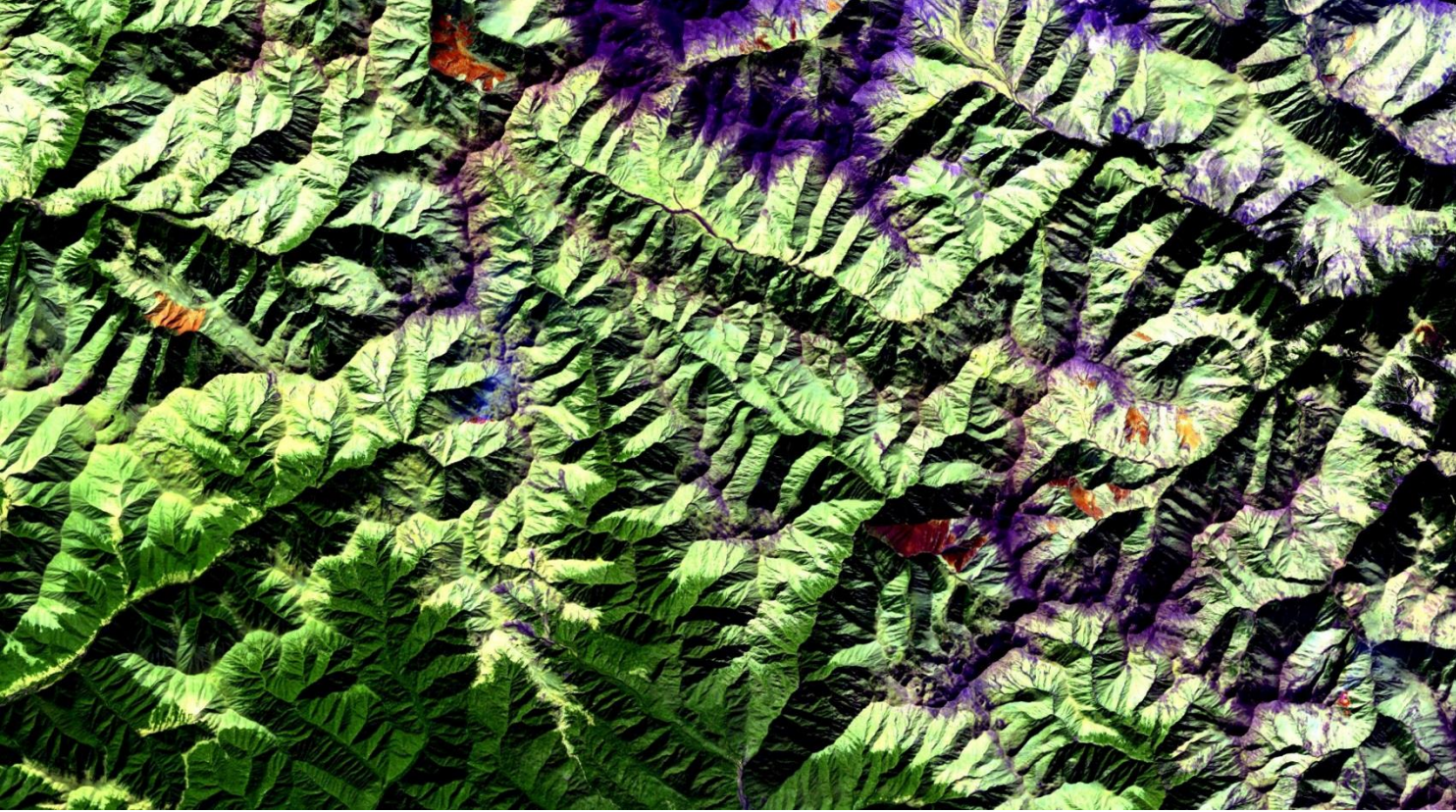
# CENN Geodatabases and communication channels.

Vakho Chitishvili

## Past year and Ongoing project about creation of spatial datasets

- Geodatabase of wildfires
- Geodatabase of nonregistered forest area
- Geodatabase of Drivers of tree cover loss and gain in Georgia
- Geodatabase of windbreakers
- Creation of hazard zoning map
- Environmental Communication





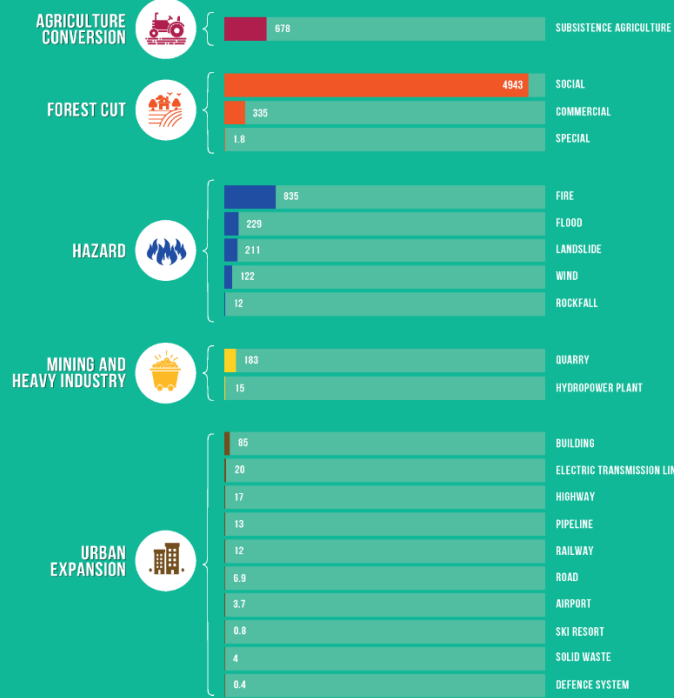
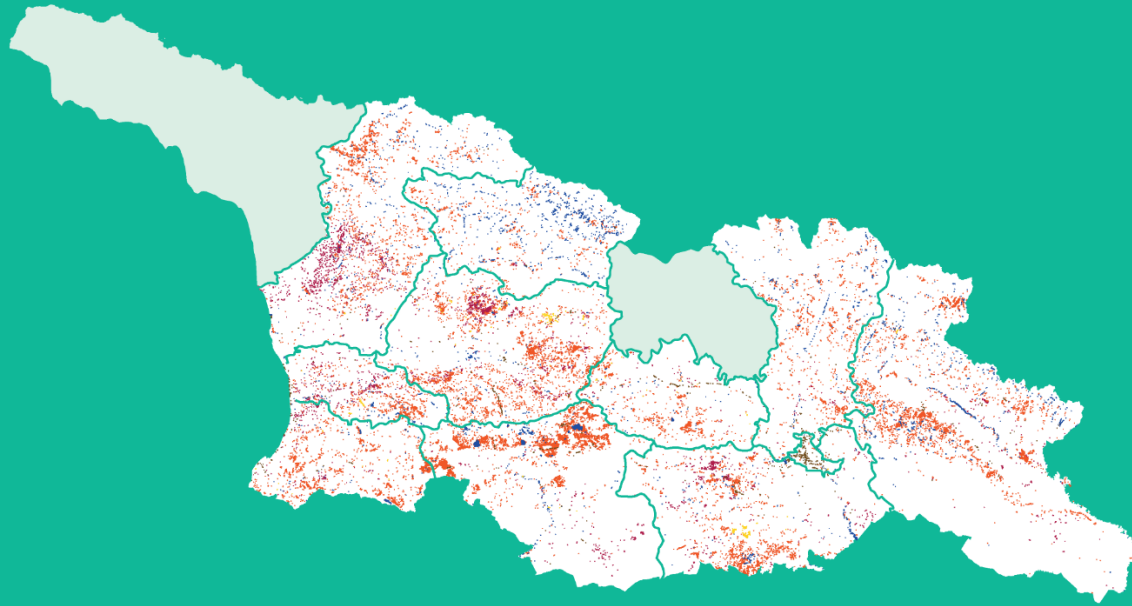
## Creation Geodatabase of wildfires

Creation of Geo statistic database of wildfire using Nasa (MODIS and VIRIS) data and analyzing with Landsat and Sentinel satellite pictures





# DRIVERS OF TREE COVER LOSS IN GEORGIA



Identify the factors of deforestation and forest degradation. Classification of underlying causes of deforestation based on GFW data, satellite pictures, GIS Vector/Raster data.



Increases knowledge concerning the factors driving forest loss



Fosters a more informed decision-making process

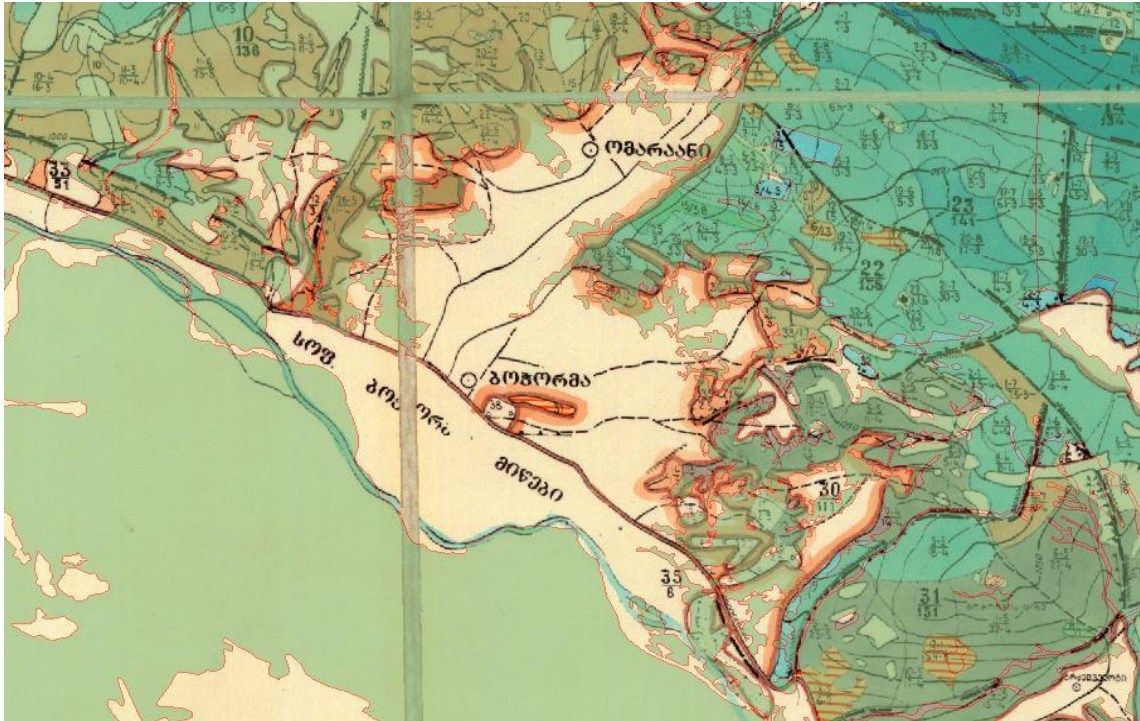


Helps define strategies and interventions to deal with national and local drivers



Supports ongoing international climate discussions and negotiations





## Assessment of lost forest territories during the registration process

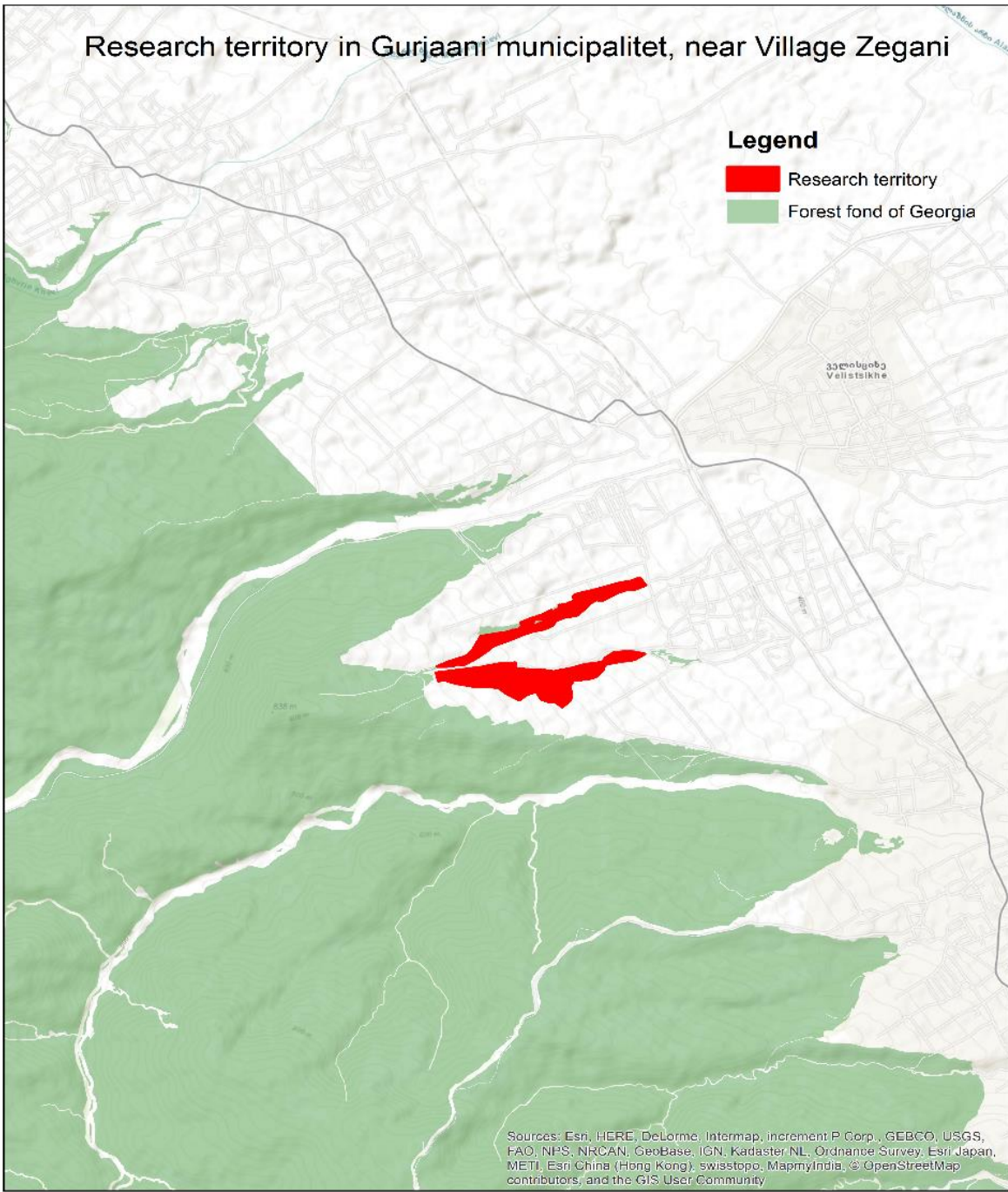
Comparison of forest fund borders and current National Agency of Public Register (NAPR) data and identification of the status of territories (privatized/registered, non-registered)



# Research territory in Gurjaani municipalitet, near Village Zegani

## Legend

- Research territory
- Forest fond of Georgia

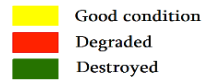
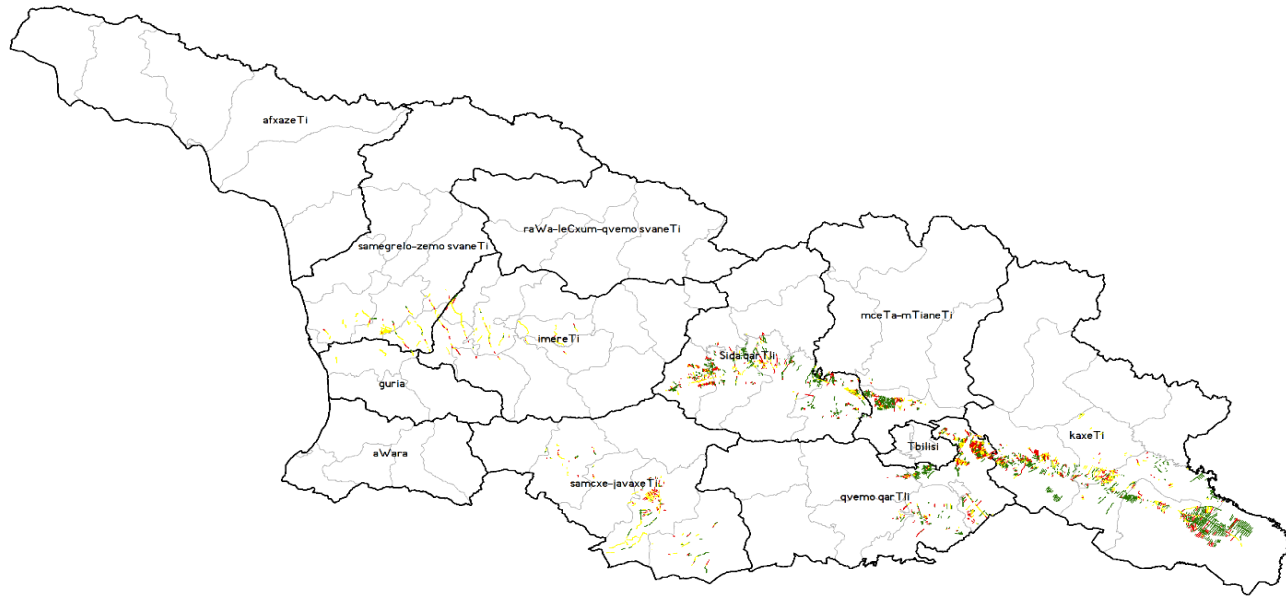


Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

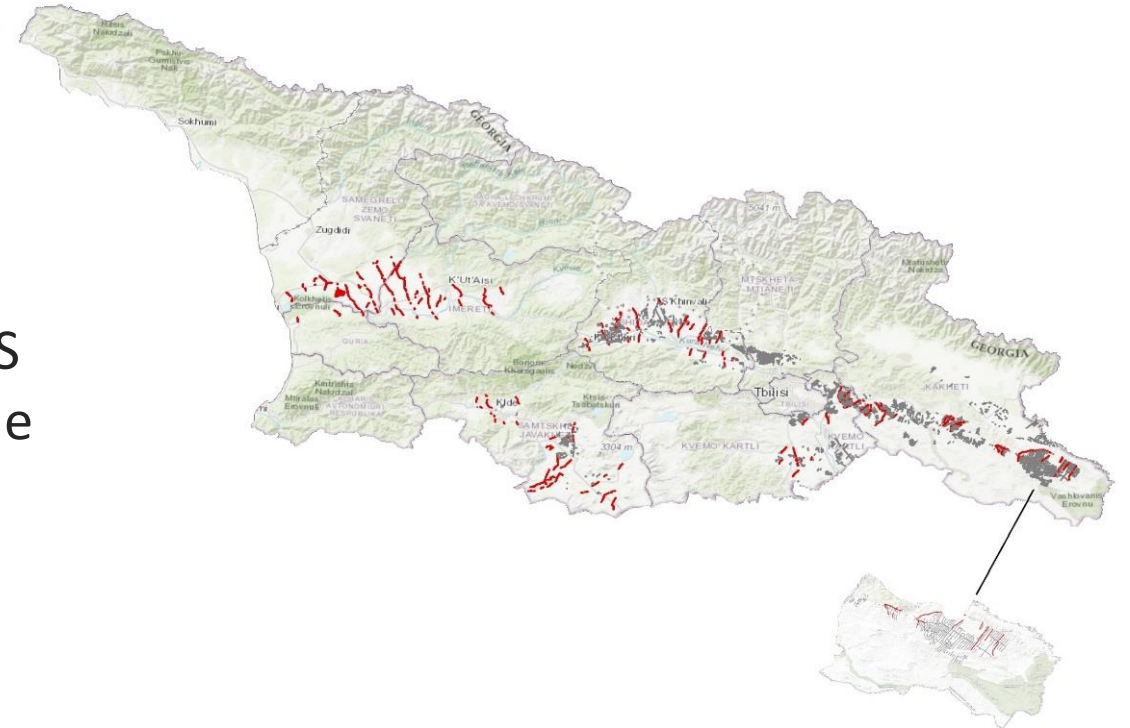






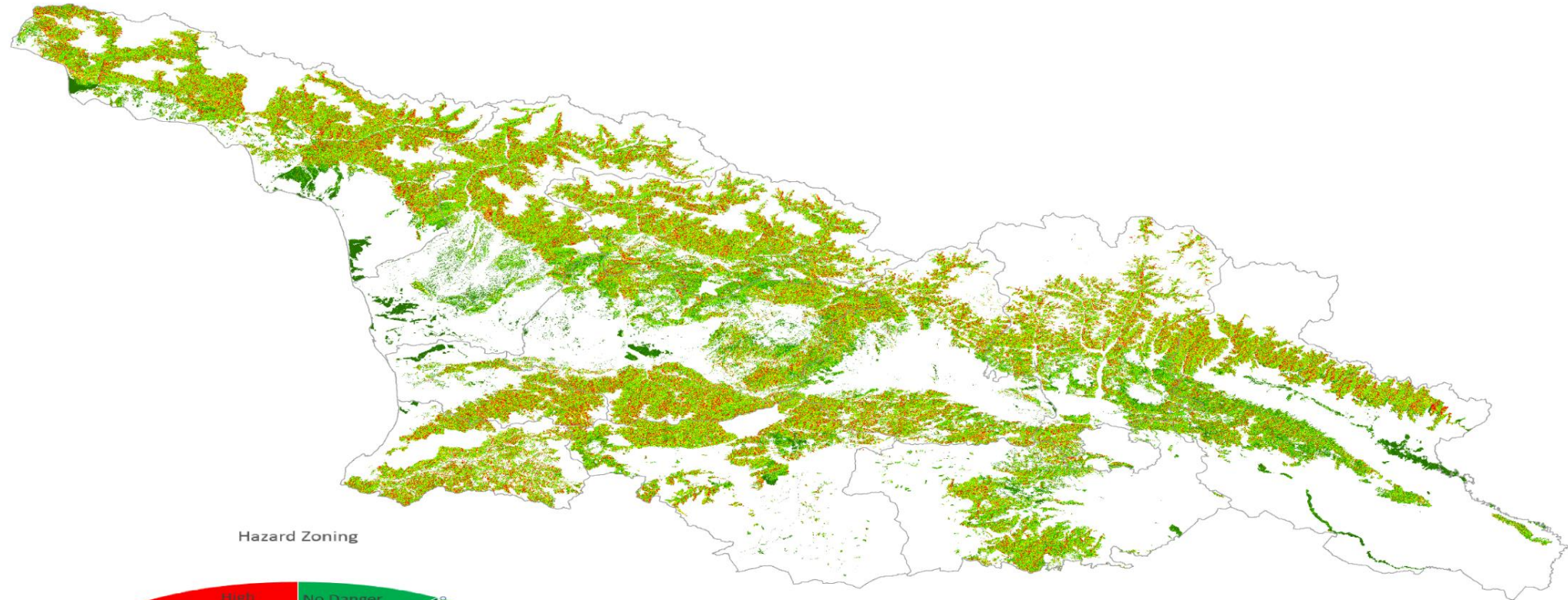


The current data is based on Google Earth and ArcGIS satellite imagery and forest inventory map used in the Soviet era for classification of windbreaks.

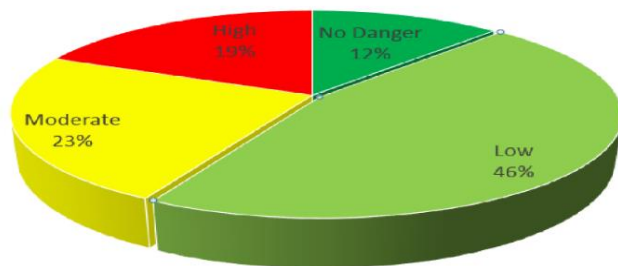




# Map of Natural Hazards and Risks in Georgia



Hazard Zoning



## Environmental Communication

- CENN mailing list and monthly bulletin
- Over **25k subscribers**



## Geoportal of Natural Hazards and Risks [rdm.cenn.org](http://rdm.cenn.org)



**Geoportal of Natural Hazards and Risks in Georgia**

Home Disaster reporting Disaster database Hazards & risks maps Hazards & risks profile Background information

Disaster reporting  
Use an entry form for entering information about a recent disaster event that has occurred. You can enter the location, address, commune, type of disaster, date, damage caused (e.g. to buildings, roads, crops) and contact information. There is a possibility to upload photos of the event. You can also report an event with Interactive map with Google Maps/Open Street map.

Disaster database  
This allows you to make queries regarding historical disaster events that have occurred in Georgia. The database can be visualized as points and you can analyze the distribution of the different types of events. You can also query by district and select types of events, and the period, and then get a map with the number of events per district.

Hazards and risks  
On this page you can display hazard, exposure and risk maps. Hazard maps are available for 10 hazard types (earthquake, floods, landslides, mudflows, rockfall, snow avalanches, wildfire, drought, windstorm and hailstorm). You can also select an administrative unit and get hazard, exposure and risk information, for buildings, population, roads, pipelines, GDP, crops, forests, and protected areas.

Community profile  
This allows you to make a hazard and risk profile of a region, district or community. For the selected unit you will then get the hazard maps for the 10 types of hazards, and will receive information both in graphical and tabular form on the exposed elements at risk, and on the expected losses within a reference period of 50 years.

Natural hazards  
This is part of the background information, and here you can download reports that explain how the 10 hazard maps have been generated (earthquake, floods, landslides, mudflows, rockfall, snow avalanches, wildfire, drought, windstorm and hailstorm). These maps will be further improved in future and users are asked to provide us with suggestions on how to improve the maps.

Disaster risk reduction  
Here you can download information on disaster risk reduction. The materials contain training materials on the use of GIS and Remote Sensing for hazard and risk assessment, and on how to use risk information in spatial planning and Environmental Impact Assessment. On this page you can also download guidelines for hazard and risk assessment.

Local case studies  
Here you can download the reports of a number of case studies that have been developed in the framework of the project "Institutional building for natural disaster risk reduction (DRR) in Georgia", implemented by CENN and ITC, and funded MATRA Programme of the Netherlands Ministry of Foreign Affairs.

Paper atlas  
This Risk Atlas contains many maps and explanatory text related to natural hazards, exposure, vulnerability and risk in Georgia. The atlas also shows the baseline maps, related to natural conditions and human conditions in the country. Maps show various types of vulnerabilities (physical, social, ecological, economic) and risks typical to Georgia's territory. The atlas can be downloaded as pdf.



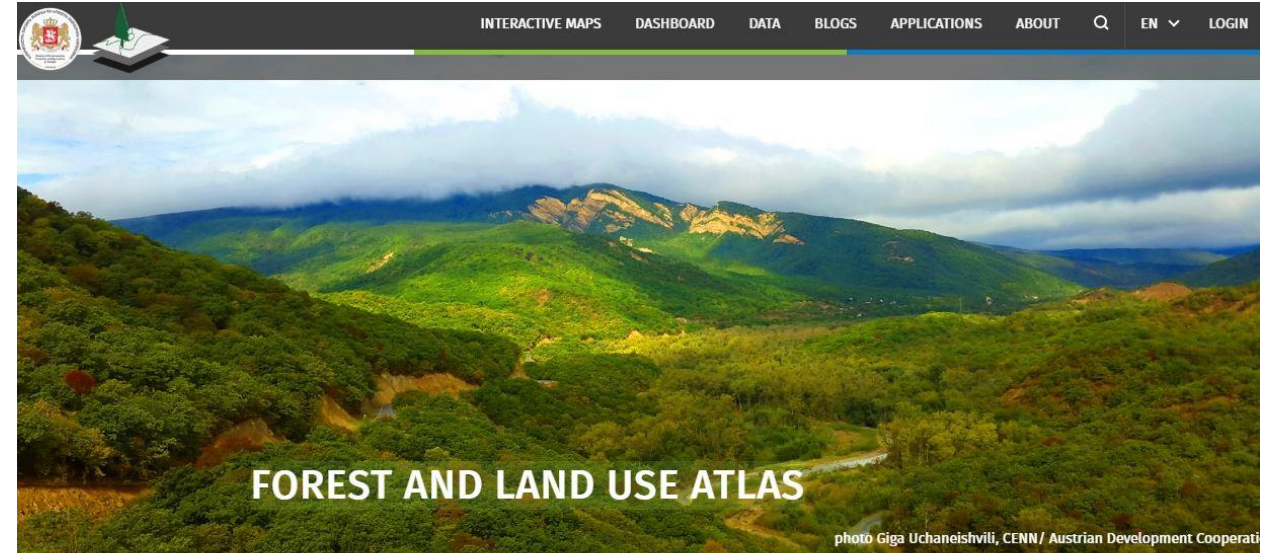






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## Forest and Land Use Atlas [atlas.mepa.gov.ge](http://atlas.mepa.gov.ge)



INTERACTIVE MAPS DASHBOARD DATA BLOGS APPLICATIONS ABOUT Q EN LOGIN

**FOREST AND LAND USE ATLAS**

photo Giga Uchaneishvili, CENN / Austrian Development Cooperation

Forest and Land Use Information and Decision Support System (Forest and Land Use Atlas) provides access to transparent and precise data on forest and land use, and also ensures active use of the information and supports planning, execution and monitoring of activities in the forestry sector.



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