

Digital Geospatial Public Services in Latvia

CHALLENGES AND SOLUTIONS BY LATVIAN GIS ASSOCIATION AND ITS MEMBERS



**Latvian
GIS Association**



Maris Kuzmins

**Latvian GIS Association
JSC Latvia's State Forests**



Latvian GIS Association

LATGIS

Established in 2005, joined the EUROGI in 2016

The main objective of the organization is to unite Latvian GIS users and developers that develop, provide software, produce and use geospatial information

The main goals of the Latvian GIS Association are:

- to promote GIS technologies and it's use in Latvia
- identify geospatial information technology user needs
- develop educational programs related to geospatial information and technologies
- represent association's member and overall industry interests in Latvia and in an international level

Most active policy makers from the industry are members of the association



Availability and Accessibility of Geospatial Data

CHALLENGES

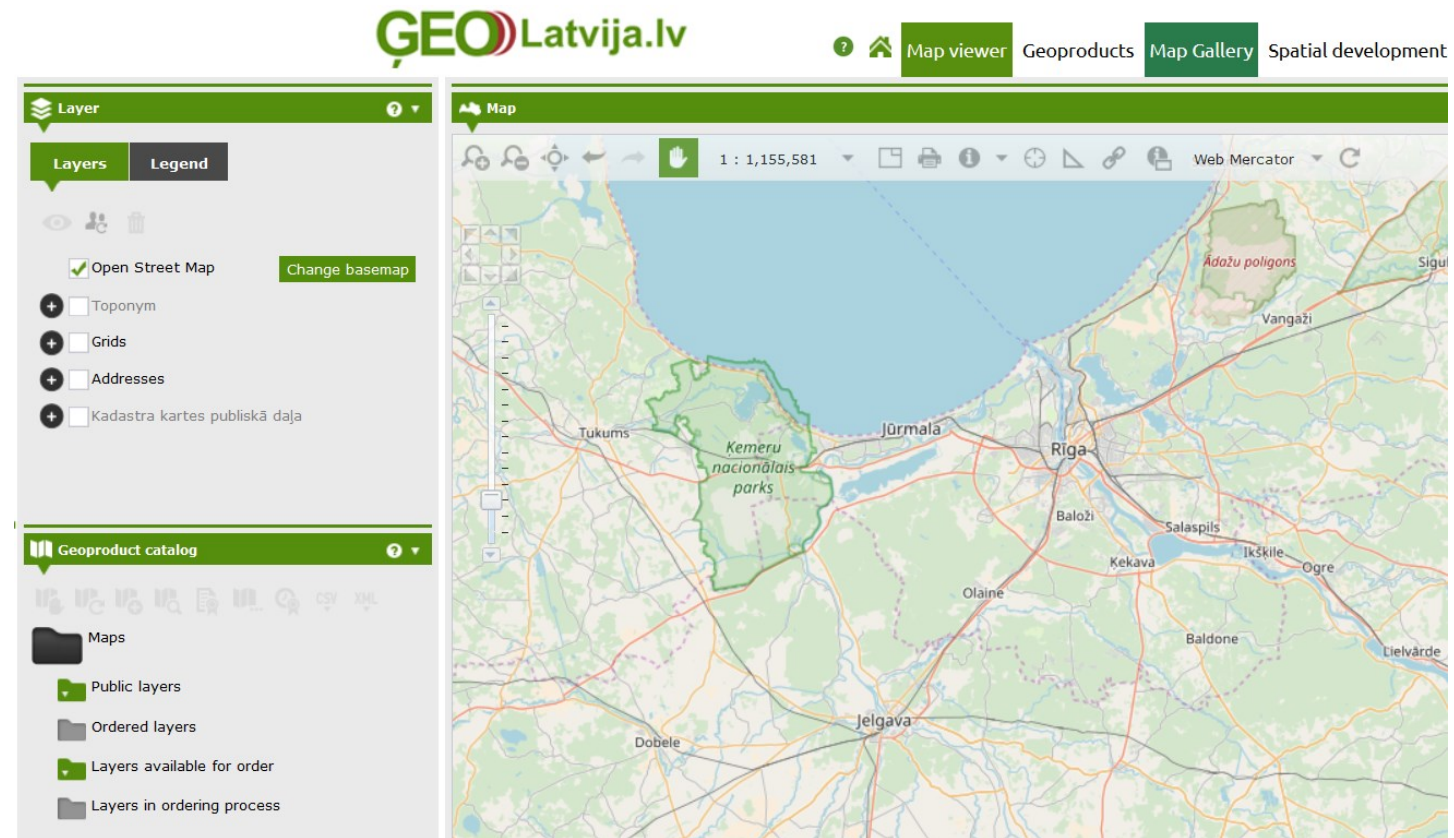
Various data providers, providing data on different terms and through different access points

Data licensing terms are not always clear, they can be interpreted

The Latvia's Geoportal is not used by all data providers

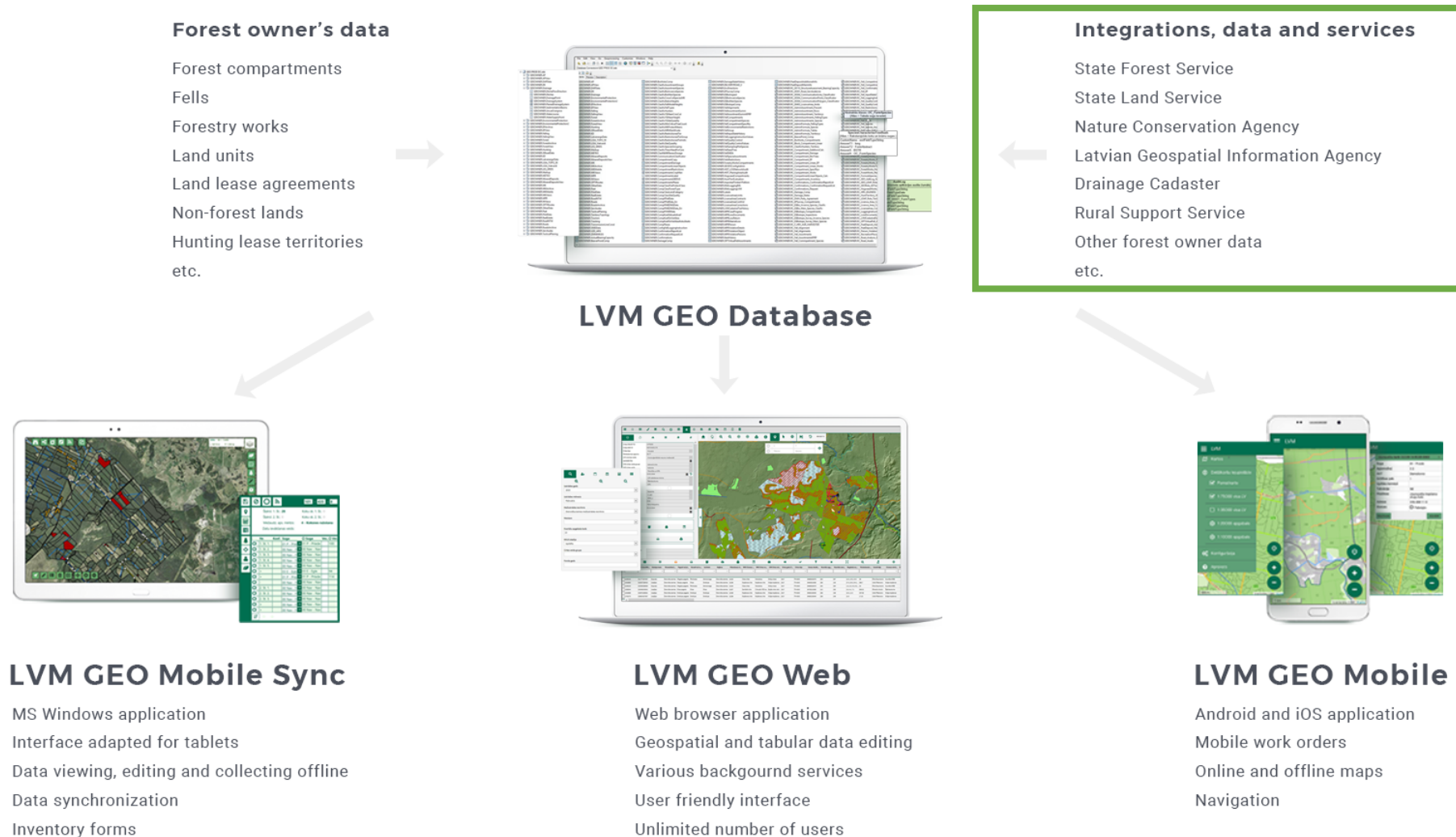
Latvia's Open Data Portal mostly contains non-spatial data

Only a few data sets are available for free, without any fee, rest are quite expensive



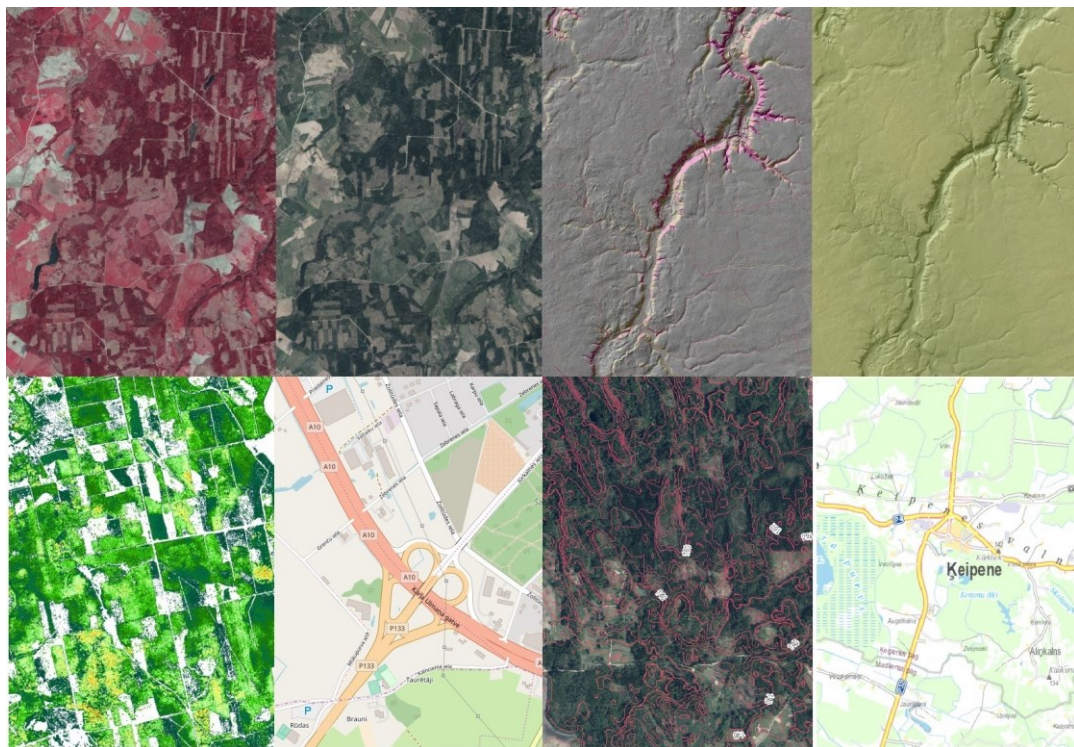
JSC Latvia's State Forests

NECESSITY OF GEOSPATIAL DATA



Open and Accessible

DATA AND SERVICES



Services

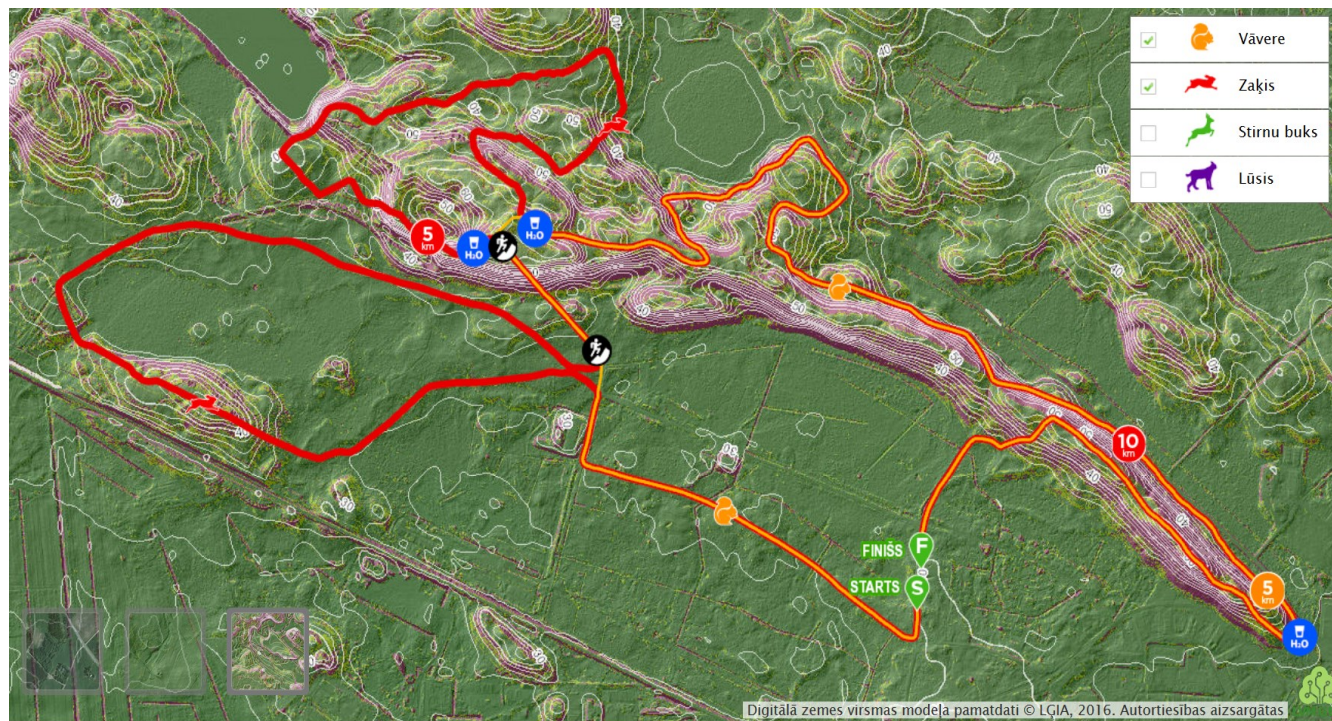
- Background maps (OpenStreetMap, Baltic maps, Forest
- Orthophoto un infrared specter orthophotos
- LIDAR digita elevation model, slope models
- LIDAR vegetation height and density models
- Topographic maps

Data

- Forest owner data (covering more ¼ of Latvia)
- Izolines
- Forest roads, bridges, forest damage risk territories, etc.
- ...

Trail Run Series «Roebuck»

PUBLIC SPORTING EVENT



Largest trail running event in Latvia

Series of 7 trail runs throughout the summer

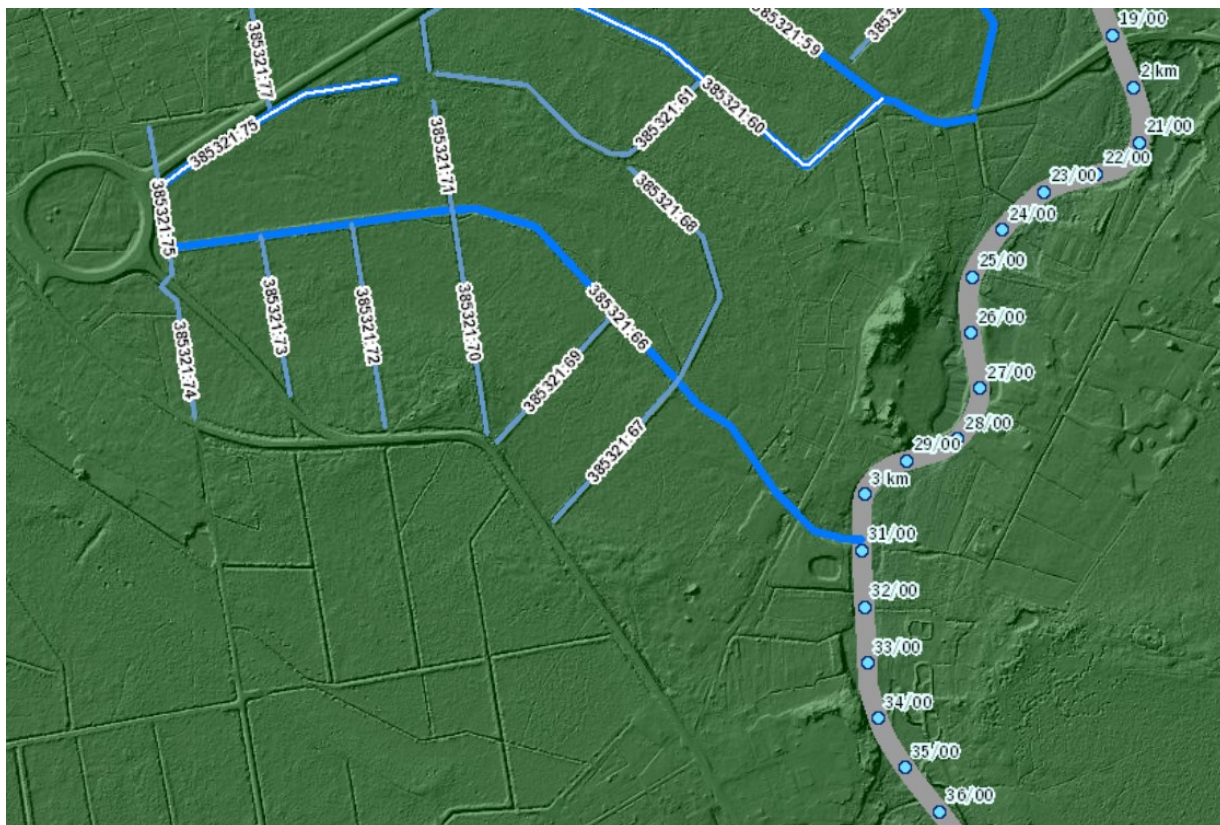
More than 4000 runners in each race

Distances available in Web and Mobile apps:

- Orthophotos
- LIDAR elevation models
- Slopes
- Isolines
- Background maps

Drainage Cadaster

REAL ESTATE PROPERTIES OF MINISTRY OF AGRICULTURE



Manages and maintains drainage cadaster of Latvia

Active development of geospatial database of drainage data

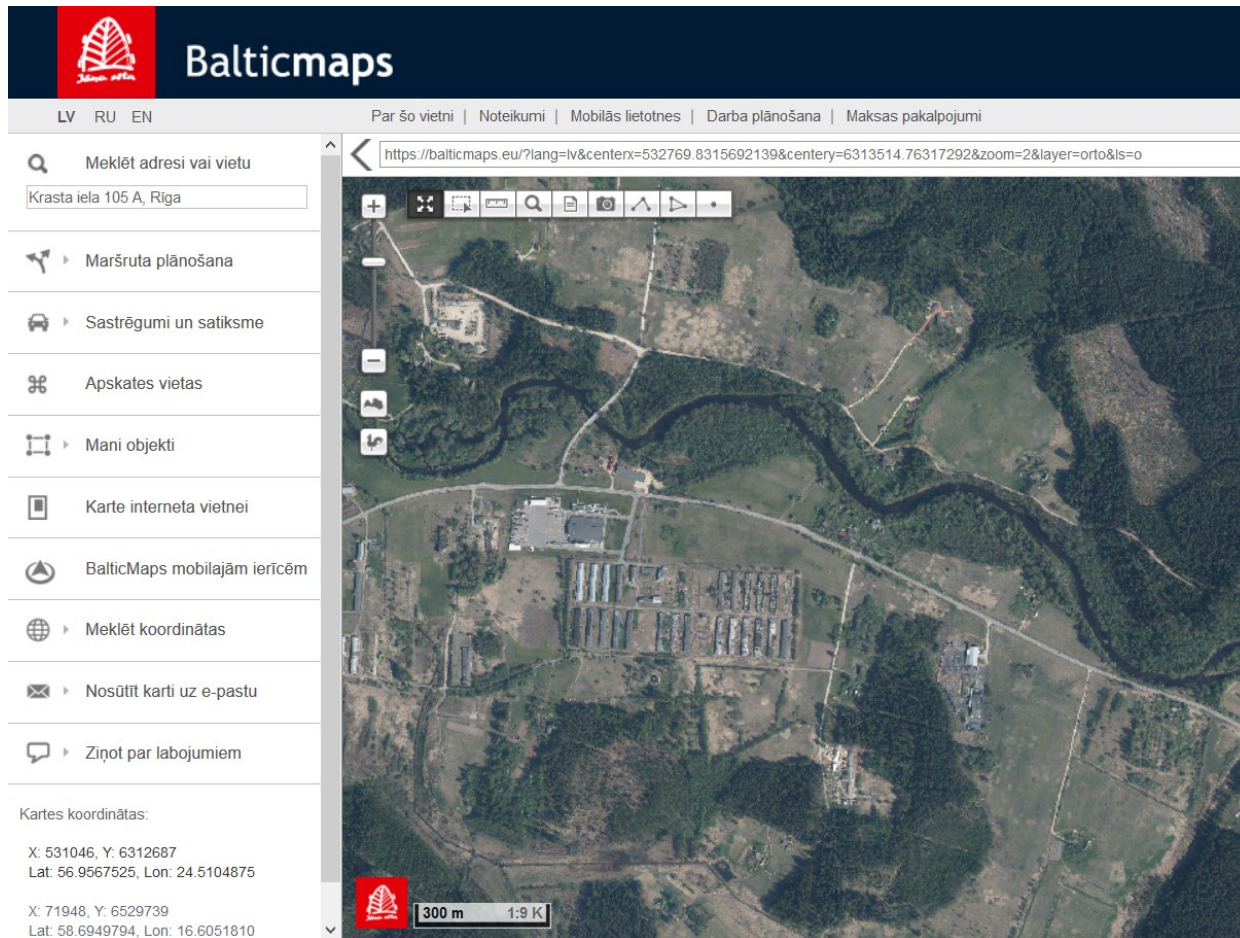
Approximately 55% of country has been covered

Didn't have resources to provide the DEM model for creating and maintaing the drainage cadaster database

Availability of LIDAR DEM with 1m resolution has significantly improved the process and quality of the data input

Private Cartography Company

KARSU IZDEVNIECIBA JANA SETA LTD



The leading map makers and publishers in the Baltics

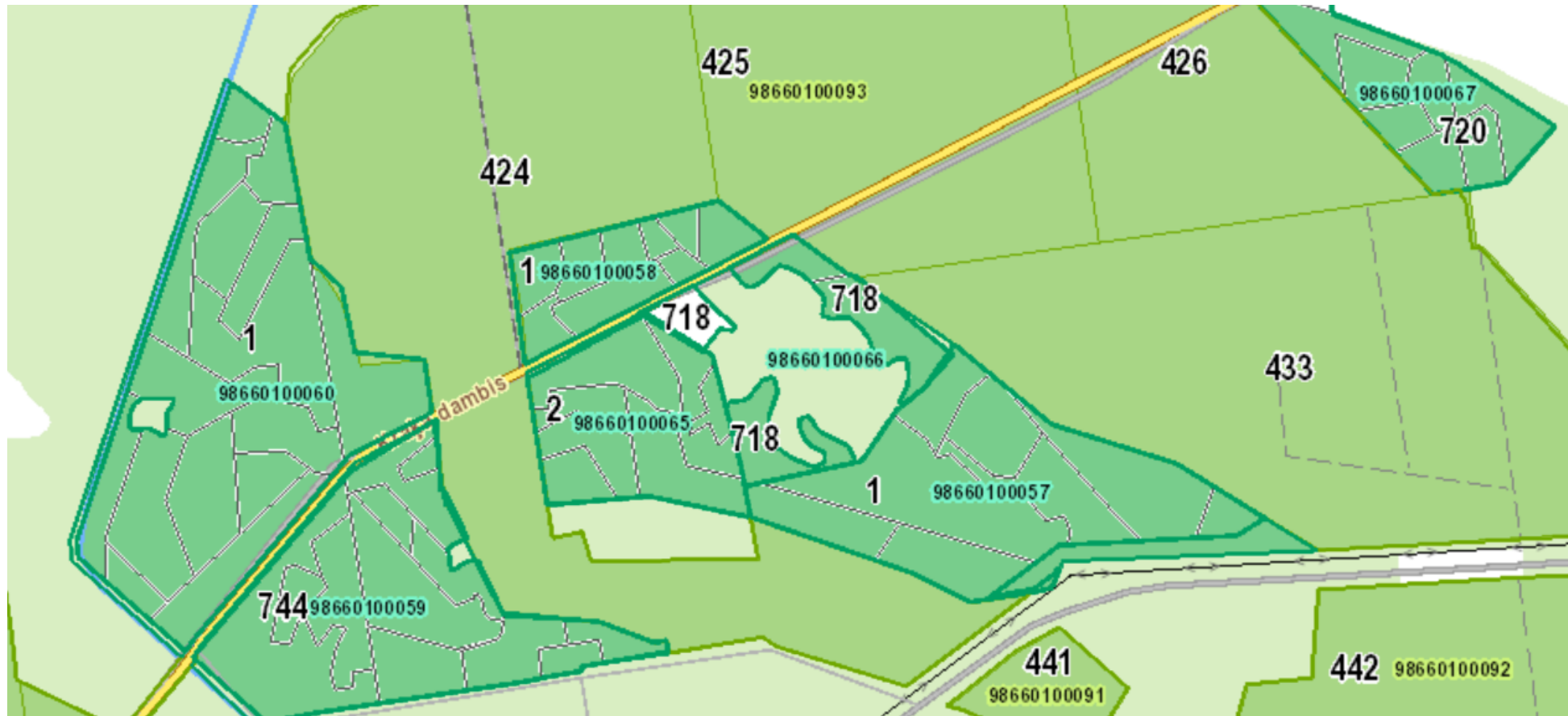
Provides the most detailed base map services in the country

Used to buy orthophoto maps, now use the open data service, provided by Latvia`s State Forests



Forest Owner Data

COMMUNICATION AND PLANNING





Latvian GIT Conference

7th of December 2018

Largest event dedicated to geospatial information technologies in the Baltics

The goal is to introduce professionals and policy makers with the latest trends in the industry, geospatial data access and usage, international and interdisciplinary projects

The number of attendees up to 400

Keynote speech by the Google's Geospatial Technologist Ed Parsons



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