The architecture and components of Geoportal of Latvia

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Agenda

1. Introduction
2. Latvian Geoportal
3. Spatial Development Planning Information System (Planned Land Use IS)
Introduction

1. The State Regional Development Agency of Latvia is an authority operating under the supervision of the Ministry of Environmental Protection and Regional Development.
2. Agency is managing some programs of state support, activities of the European Union Structural Funds and some foreign support instruments.
3. Agency has implemented the Geoportal project through European Structural Funds.

Basic information
- Project start date – 16.07.2009
- Project end date – 30.06.2015

Geoportal include public part of the section «Spatial Development Planning»
Spatial Development Planning Information System implemented as a separate project through European Structural Funds:
- Project start date - 20.08.2009 04.05.2015
- Project end date - 04.05.2015
Latvian Geoportal architecture

- Geoportal is a unified, centralized geospatial service access point
- Metadata describes the geospatial data used in geoproducts
- Geospatial data and service management
- View and download geoproducts are using services from divided access management system

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# Geospatial Data Connector (GDC)

## Metadata Catalogue
- Prepares, maintains and distributes spatial data sets metadata
- Provides INSPIRE Discovery Service

## Geospatial data an service management
- Backend solution for preparation, use, exchange and maintenance of geospatial information:
  - OGC service standard:
  - View Services (WMS)
  - Feature Services (WFS)
  - Discovery Services (CSW)
- INSPIRE standard:
  - View Service (OGC WMS + INSPIRE requirements)
  - Download Service (OGC WFS + INSPIRE requirements)

## Divided access management system
- Storing access rights for geospatial services
- User permissions validation against geospatial service access permissions, access control
- Receiving geospatial service data from geospatial service suppliers
- Providing data to user portals from geospatial services

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Geoportal sections

Map browser  Geoproduts  Map services

Embedded map  Spatial development planning  Information section
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Anonymous user → Private person
Anonymous user → Data holder
Anonymous user → Geoportal administrator
State institution → Geoportal
Types of geoprodcts

- **Downloadable file**: Geospatial data that are readable in data format as map pages and geodata are set in different formats.
- **View service**: Viewable geospatial service e.g. OGC WMS.
- **Download service**: Download geospatial service e.g. OGC WFS.
- **Offline data**: For example printouts, data on different data carriers. Geoportal data requester will see information about this type of geoprodct without option to order it.
Map browser

- Allows to use View and Download geoproducts
- Allows to combine different data from different data holders
- Basic layers as topographic map, cadastral data, address and administrative unit data are available for free
Embedded map

- Allows institutions to publish iframe maps on their web pages
- Increases the usage of the data
- Allows access to the state institution data from various web pages
- Allows to use state institution maps in different e-services
Statistical data

Geoproducts
- 2015: 17
- 2016: 26
- 2017: 57

Metadata
- 2015: 74
- 2016: 169
- 2017: 241

Services
- 2015: 8
- 2016: 31
- 2017: 84

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Spatial Development Planning Information System (Planned Land Use IS)

https://tapis.gov.lv/

For spatial planning authorities

Spatial Development Planning Information System provides:
- Predefined development process of spatial development planning document;
- Development, publication and maintenance of all planning levels documents;
- Data exchange with state information systems;
- Public discussion;
- Some public electronic services;

For Public users

Here residents and merchants can:
- search for textual and spatial information on Planned Land Use;
- participate in the public discussion on Planned Land Use;
- receive notices on Area of Interest;
- receive statements from municipalities as e services;
Predefined development processes for all level
Planned Land Use

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Development, publication and maintenance of all level Planned Land Use in one place

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Data exchange with state information systems

For spatial planning authorities

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Cadaster  Construction IS  Geospatial information  Nature protected areas
Search for all level Planned Land Use documents
Proposals on Planned Land Use

For Public users

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![Map of Jelgava](image)

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Notices on Area of Interest

For Public users

Dokumentu meklēšana un apskatīšana, līdzdalība publiskajā apspriešanā

Atvērt ČeloLatvija.lv

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What is achieved?

There are accumulated Planned Land Use (harmonized and structured) information on 14794km² or 23% of territory of Latvia.
Thank you for your attention!

Questions?