

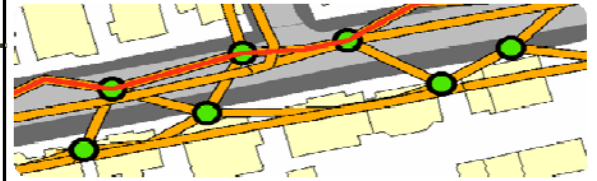
GreenIS

digitizing the world of telecommunications



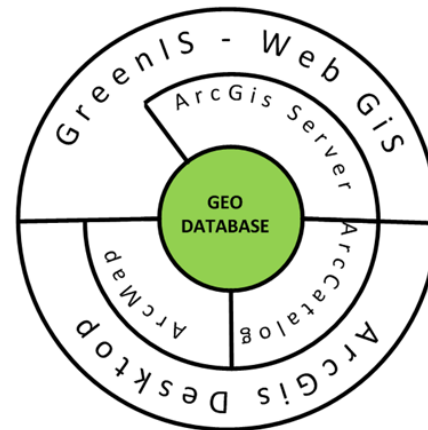
WEB GIS

Web Based application, accessible from any browser, based on ArcGIS ESRI 10.1 as map server and a relational database with geo-spatial support, Postgres 9.2



ESRI – ArcGIS Server

Server component used for publishing map services. These are used both by the WebGIS and Desktop GIS components .



Desktop GIS

Composed from the ESRI suite for administering and advanced processing of geospatial data (**ArcCatalog**, **ArcMap**)

Geo Database

A relational database Postgres, 9.2, modified for compatibility with the geospatial data processing.



What is GreenIS?

A multi component complex system, with both Web and Desktop interfaces for advanced processing, graphic analysis operations and GIS reporting.

Usage?

At the present moment it is used for more than 10 major operators infrastructures and telecom networks

GreenIS Overview

Users

ANCOM – Romanian National Authority for Management and Regulation In Communications

Why use it?

Integrates the inventory process management, analysis and planning of electronic communication networks, associated equipment and the infrastructure holding structural elements of the electronic communication network.

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Data levels

Modeled concepts by the system are used in map type services in which all concepts are organized in a distinct layer.

Modeling concepts regarding the Electronic communication network

- **Network Segments:** Fiber Optics, coaxial cable, Ethernet cable, Twisted Pairs
- **Equipment:** Switches, Telephone Stations
- **Infrastructure:** Cabinet, Pole Pylon, Pipeline

Validation and advanced GIS processing

- **Network Modeling**
- **Imported data Validation**
- **Automated Transformation**
- **Conflict Solving**
- **Publishing map services**

Online access by Communication operators

- **Online Web interface**
- **Viewing, uploading and updating data by the operator**
- **Custom access for each operator**

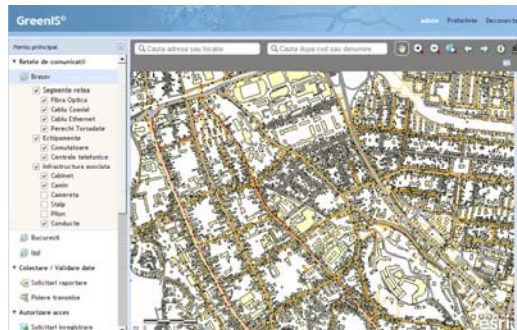
GIS calculating

Operating on a graphic level on the map, for calculation of minimal routes between two points, areas, distances, data selection regarding the defined perimeter address search or searching elements by code.

GreenIS functionalities

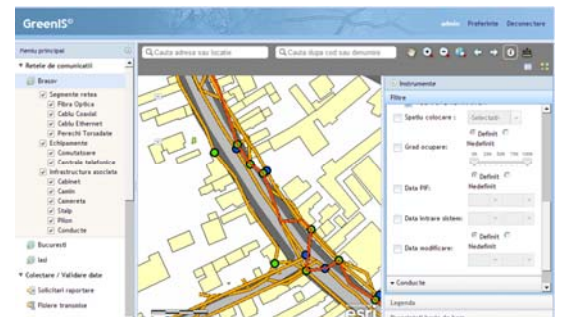
Loading / Updating data

- **Importing data** using standard formats Shape File, CAD, XML
- **Automated conversion** between import formats
- **Workflow** dedicated to the loading / update process
- **Publishing data** in the geospatial database after validation mediating



Information displayed on the map is organized by layers and groups of layers

GreenIS offers a variety of filters and most important it gives you the option to create and save custom filters.

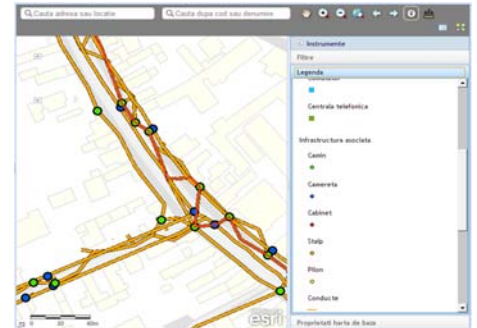


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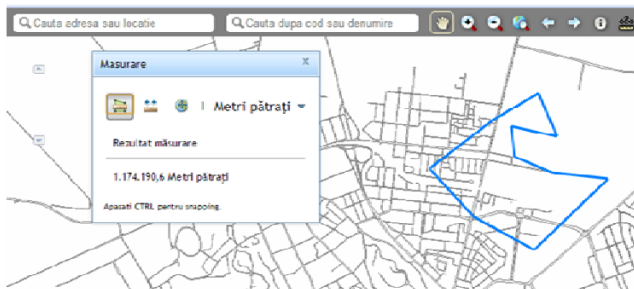
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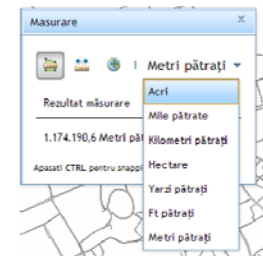
The map's legend is interactive, as it changes once the information displayed on the map changes. The user can choose the basemap's level of transparency.



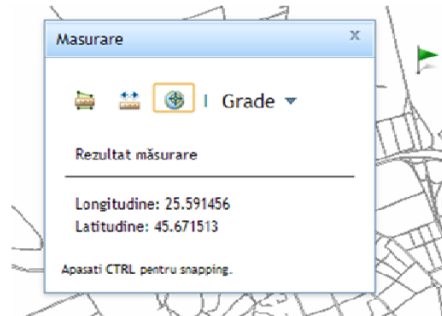
Aria measurement



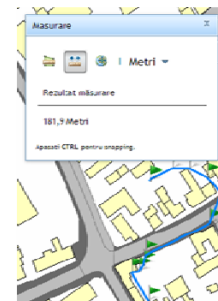
Different Measurement Units



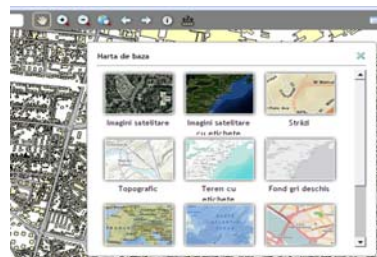
Identifying coordinates



Distance measurement

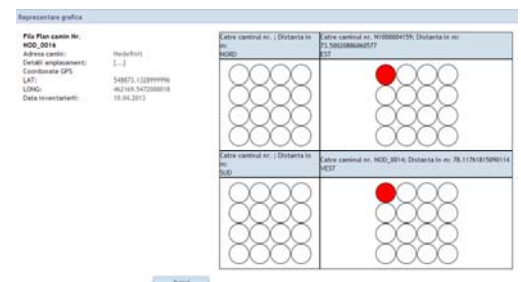


GreenIS offers tools to measure distances and areas on the map in different units.



You can choose the basemap on which information will be overlaid from a gallery of basemaps.

Users can see detailed graphic sections of manholes. Each feature's information can be further visualized in tabular form. Furthermore, the feature's relationships with other features are presented.



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