

NATIONAL REPORT OF LITHUANIA TO EUREF 2014

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National Land Service

under the Ministry of Agriculture

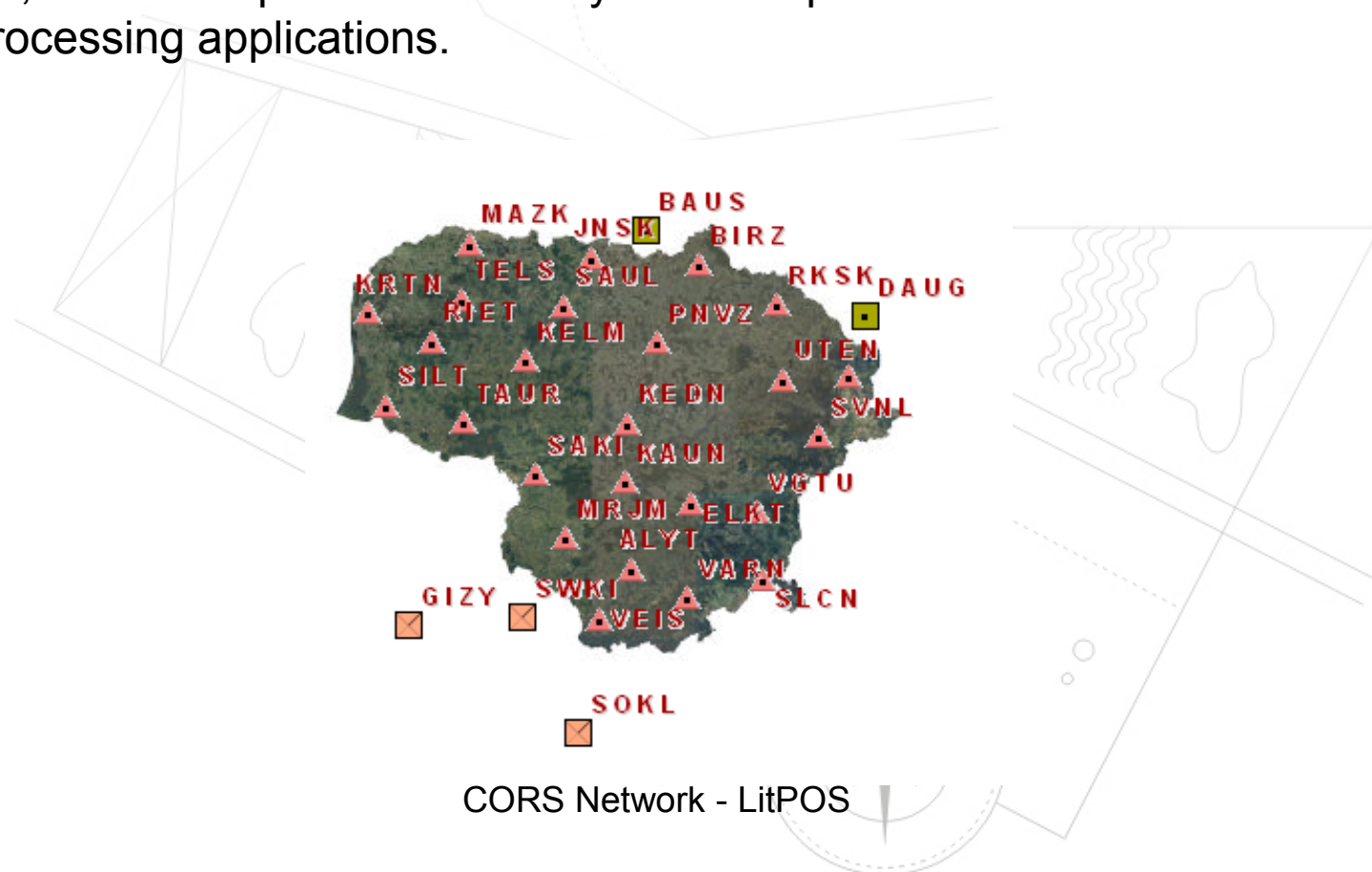
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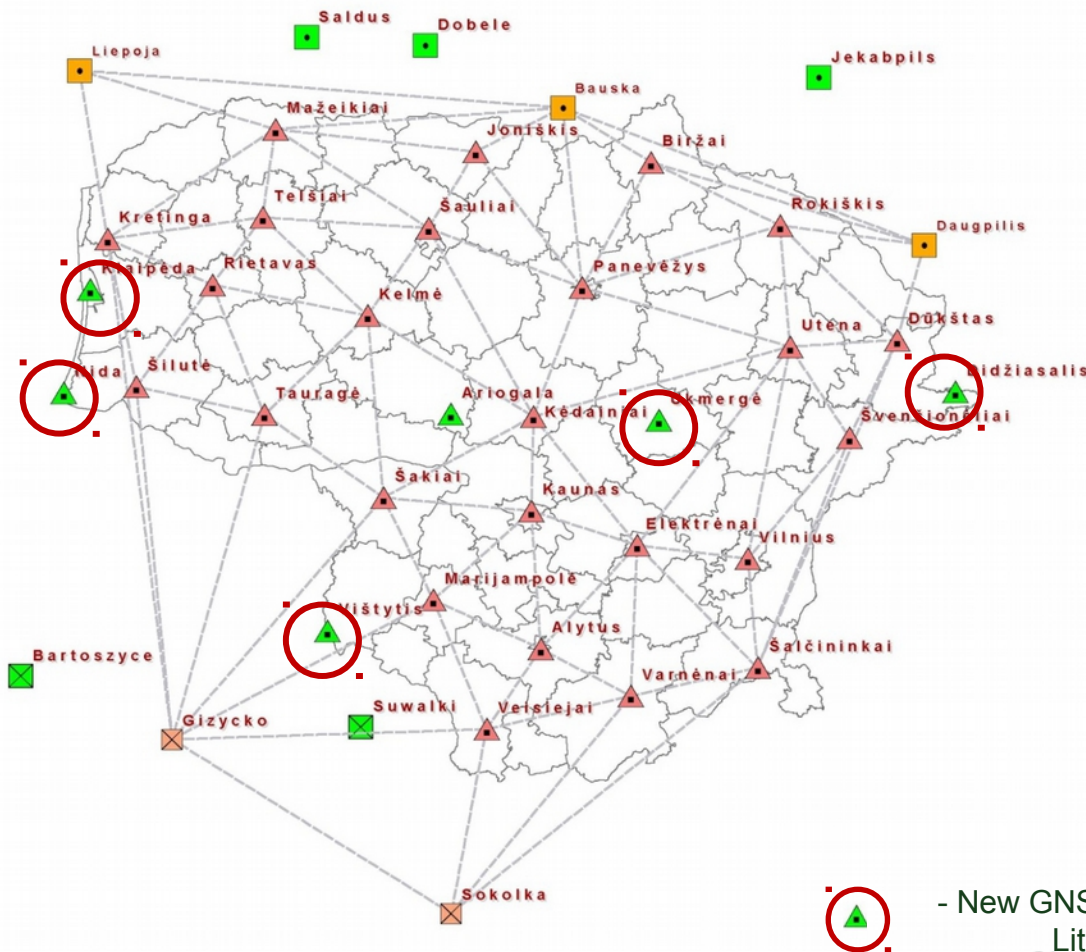
Vilnius, Lithuania

- CORS Network LitPOS
- Vilnius EPN station
- Orthophotomapping
- Second order vertical network

LitPOS (Lithuanian Positioning System), the network of permanent reference GNSS stations, became operational in July 2007. It provides data both for real-time and post-processing applications.



2013-2014: added 5 new GNSS stations.



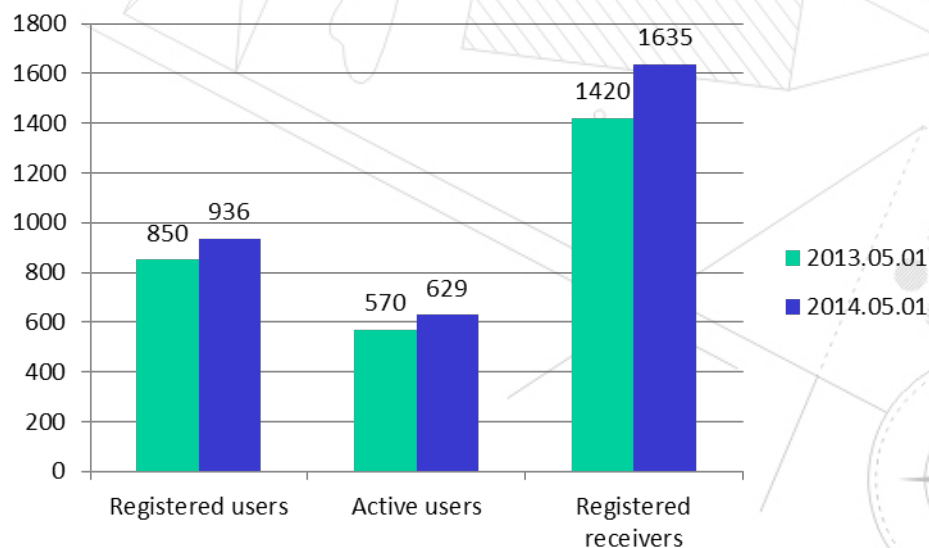
LitPOS stations cover the whole territory of Lithuania. Total number of LitPOS GNSS stations is 30. LITPOS users can use 2 ASG-EUPOS Polish stations and 6 LATPOS Latvian stations.



- New GNSS station for LitPOS

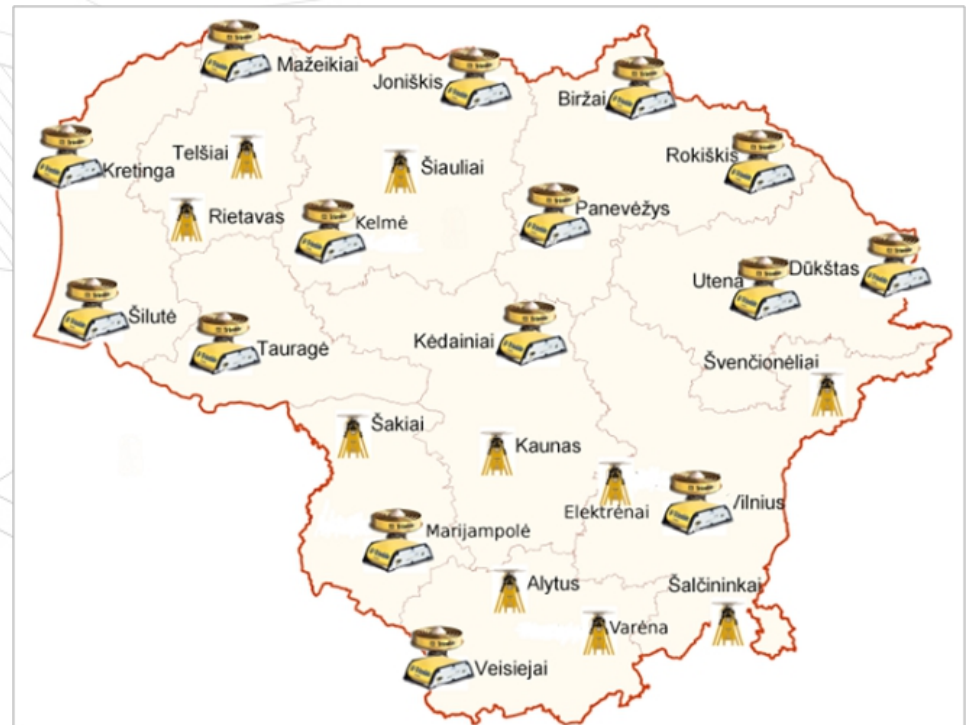
User statistics (2014-05-01):

- **Number of LitPOS registered users: 936 (+86)**
- **Numbers of active users: 629 (+59)**
- **Number of registered receivers: 1635 (+215)**



Plans for 2014-2015:

- **Renew all stations: receivers + antennas**
- **Renew software**



EPN station Vilnius (VLNS) (1)



NETWORK & DATA > STATION LIST > **VLNS_10801M001**

STATION DESCRIPTION

LOCATION Vilnius, Lithuania



LOG FILE

vlns_20131015.log (current) ▾

View

PICTURES



OPERATIONAL CENTRE **VGUGI**

OTHER NETWORKS **IGS, IGS, ECGN**

EPN INCLUSION Since 052/1999 (GPSweek No 0998).

INACTIVITY PERIODS None

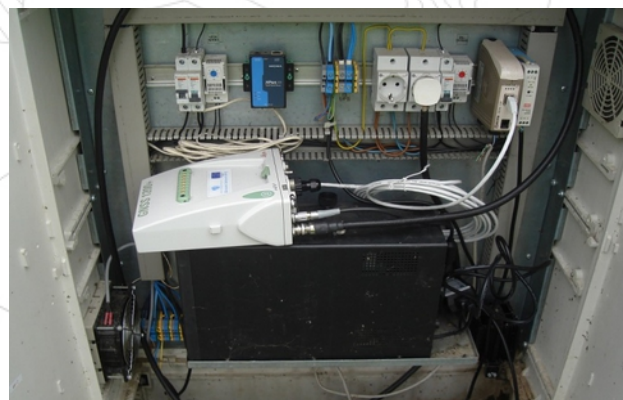
COORDINATES **Published positions/velocities in ITRS and ETRS89**

INDIVIDUAL ANTENNA
CALIBRATIONS

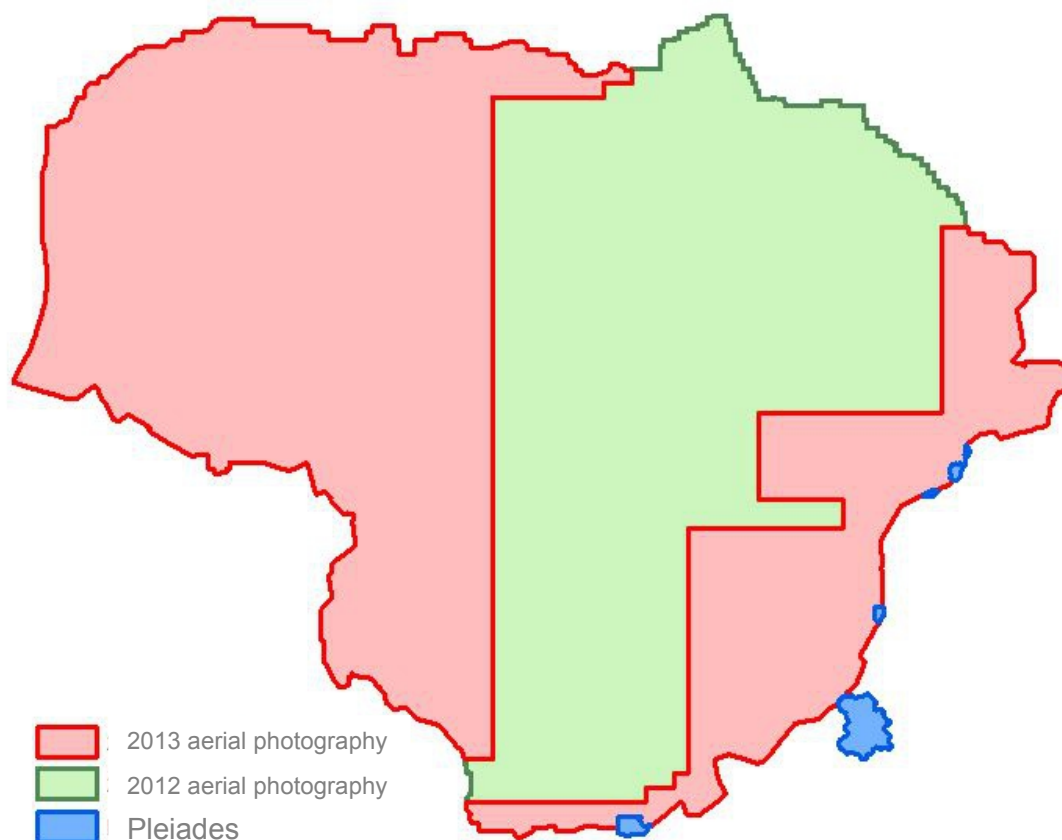
None

2013-10-01 installed new hardware:

- **Leica GRX1200+ GNSS receiver**
- **Leica AR25 antenna**



Orthophotomapping in Lithuania 2013:



Facts:

Aerial photography :

51% territory of Lithuania;

Orthophotomaps:

M 1:10 000, M 1: 5 000;

Future plans for orthophotomapping:

- 2015 - 1/3 territory of Lithuania
- 2016 - 1/3 territory of Lithuania
- 2017 - 1/3 territory of Lithuania



Vertical network (1)

2013-2015 Precise levelling (second order, 2200km)



Vertical network (2)



Precise levelling (second order, 2200km)

Total length of lines – 2800 km:

Ready - 300 km (in 2007) + 300 km (in 2012);

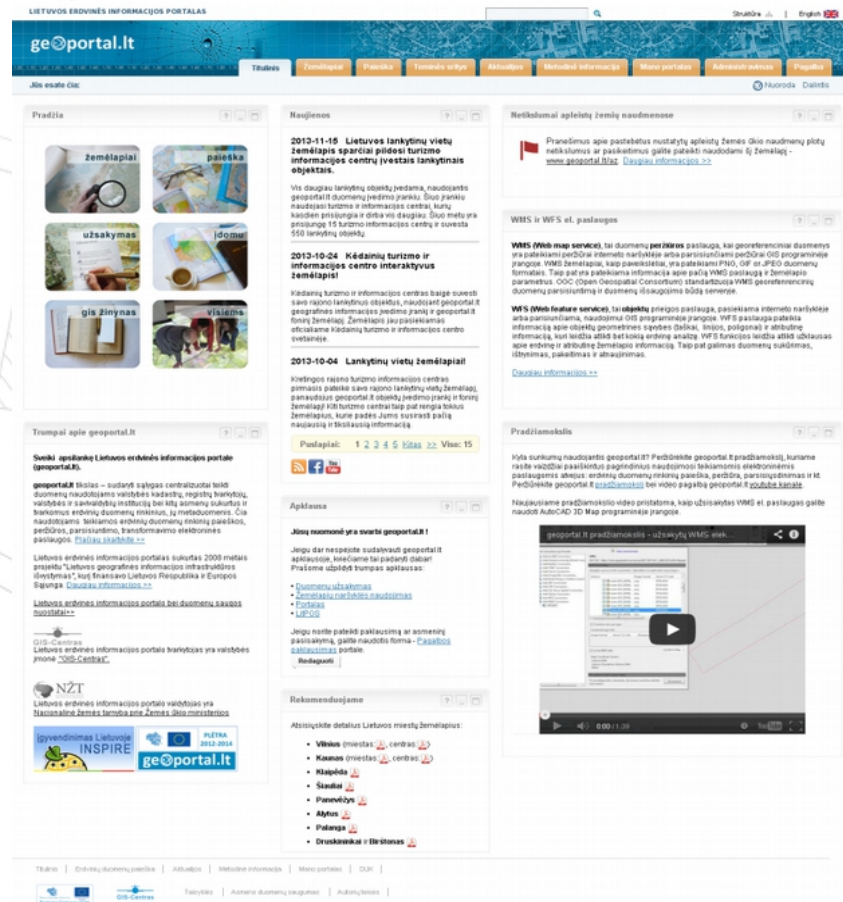
Foreseen – 2200 km (in 2013-2015);

Total number of points - 3300 (new –2800);

Characteristics of projected 2nd order Network

Region	Average length of line, km	Area, thousand km ²	Perimeter of projected network, km	Projected lines			Density of projected network, km/1000 km ²
				Number of lines	Runs which coincide with lines of old levelling, km	New runs, km	
South	27,4	12,6	958	35	692	266	76,0
East	32,8	11,5	854	26	276	578	74,3
North	29,6	15,3	1094	37	635	459	71,5
West	27,5	15,2*	1154	42	812	342	75,9
Centre	31,5	10,2	818	26	708	110	80,2
	29,4	64,8	4878	166	3123	1755	75,3

Geoportal.lt One place for national spatial data access

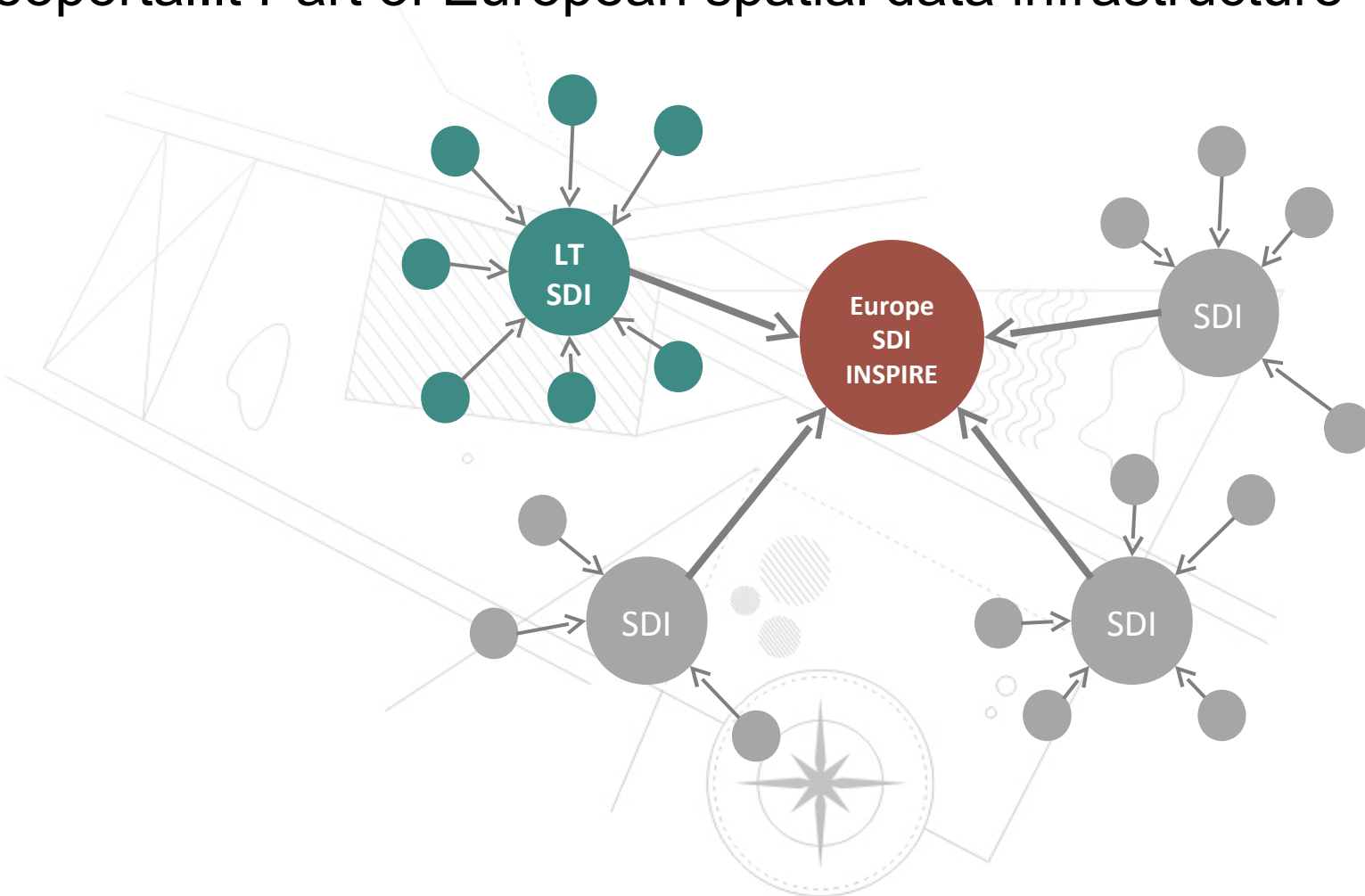


The screenshot displays the Geoportal.lt website, which is the Lithuanian Geospatial Information Portal. The interface is in Lithuanian and features a top navigation bar with various service links. The main content area is divided into several sections:

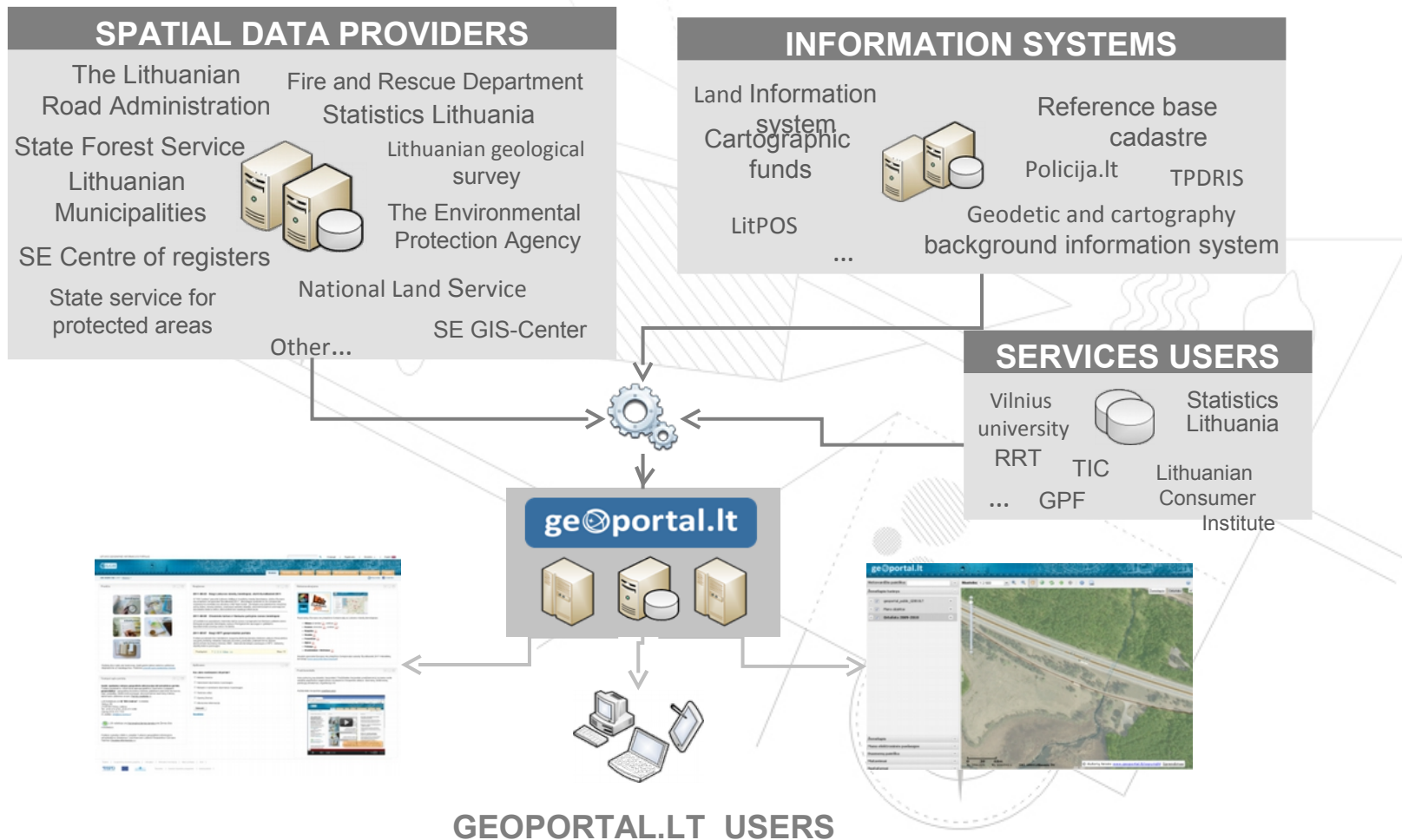
- Pradžia (Home):** A grid of icons representing different data types and services, including maps, data, and information.
- Našlesnis (News):** A section for news and updates, featuring articles about the portal's development and usage.
- Netikėtumai aplieinti žemės naudojimą (Unexpected land use):** A section for reporting and managing land use changes.
- Trumpai apie geoportal.lt (Briefly about geoportal.lt):** A section providing a quick overview of the portal's services and features.
- Apklausa (Survey):** A section for user feedback and surveys.
- Rekomenduojama (Recommended):** A section for recommended content and services.

The website also includes a search bar, a language selector, and a footer with contact information and social media links.

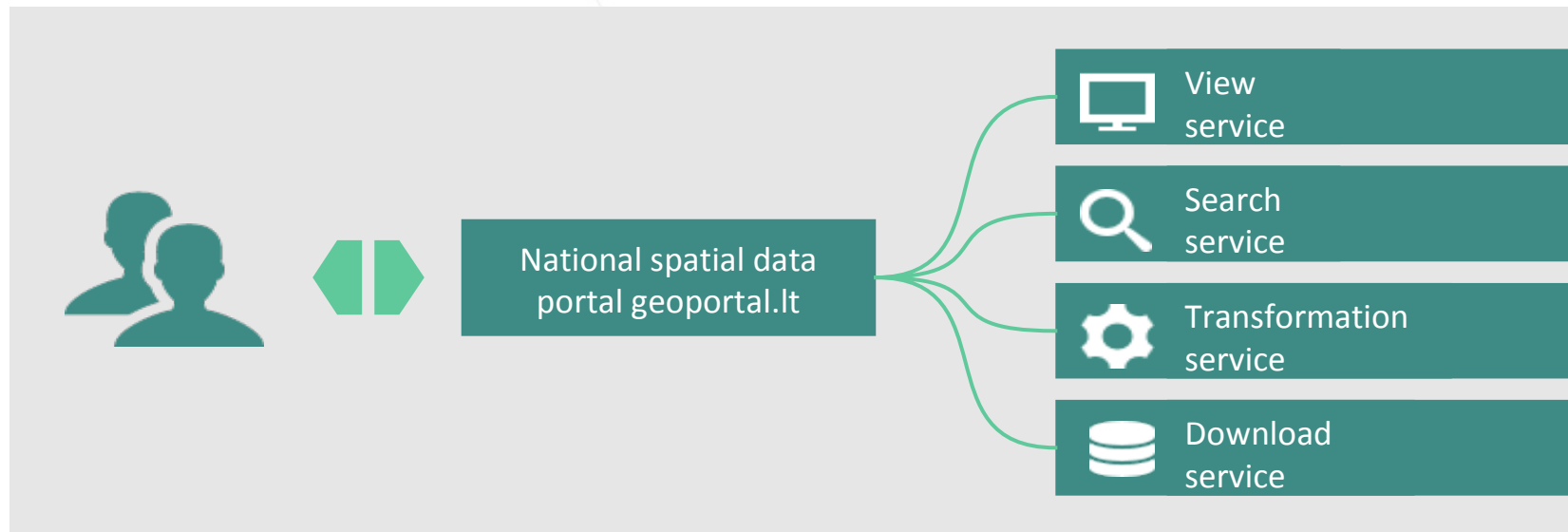
Geoportal.lt Part of European spatial data infrastructure



Geoportal.lt One place for national spatial data access



Geoportal.It Get the data you need



FIND, ORDER, DOWNLOAD AND USE DATA IN ONE PLACE

- Saving time to find data in different institution
- Saving time to order data and sign license agreements
- Everything can be done online
- Get data in format you need
- No investment in data transformation for users
- Clear data providers
- Responsibility

geportal.lt

  PLÉTRA 2012-2014

THANKS FOR YOUR ATTENTION !



LitPOS

www.gi.ap.vgtu.lt

www.nzt.lt

www.geoportal.lt

www.litpos.lt

www.zis.lt

