

NATIONAL REPORT OF LITHUANIA TO EUREF 2014

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National Land Service

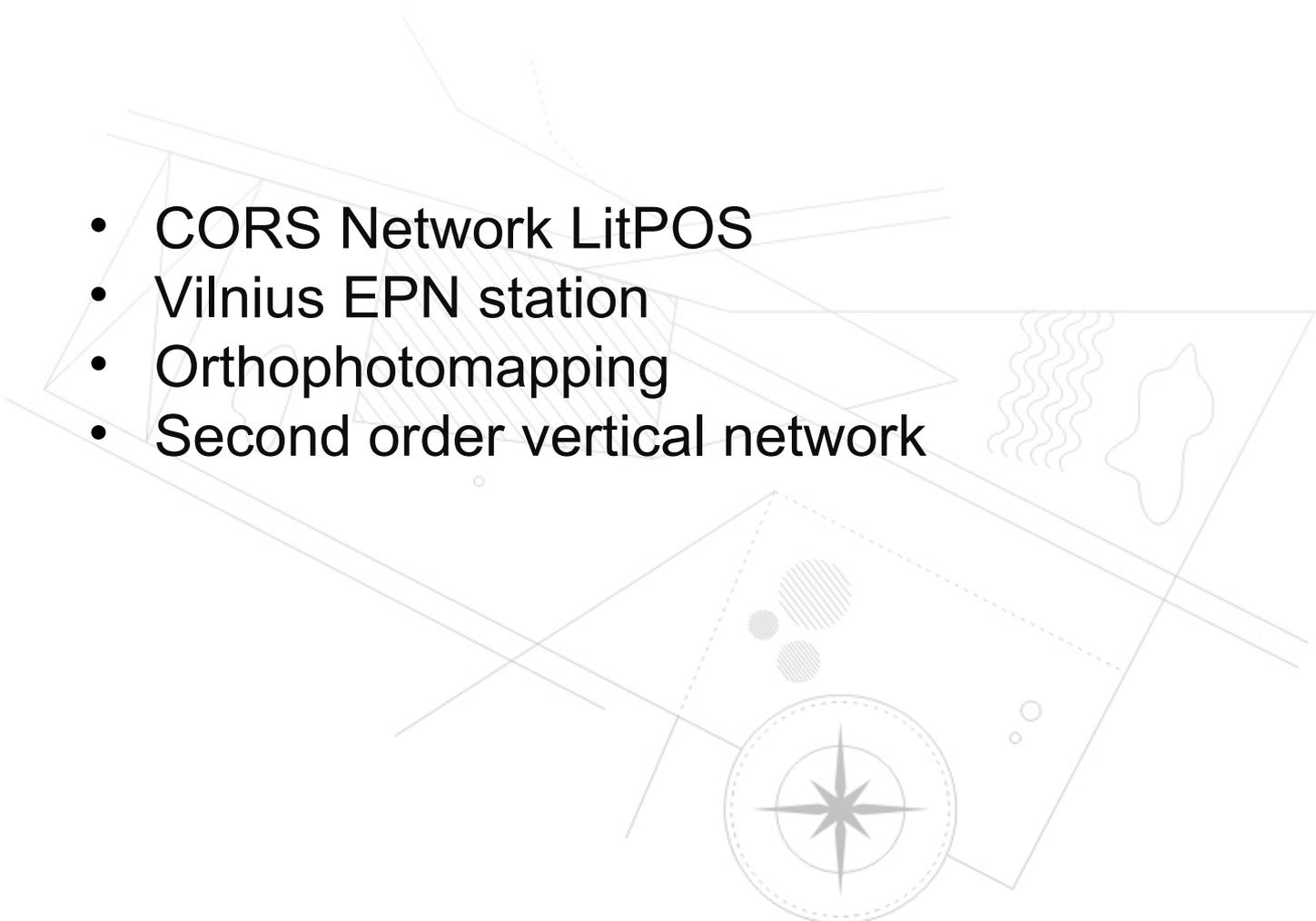
under the Ministry of Agriculture

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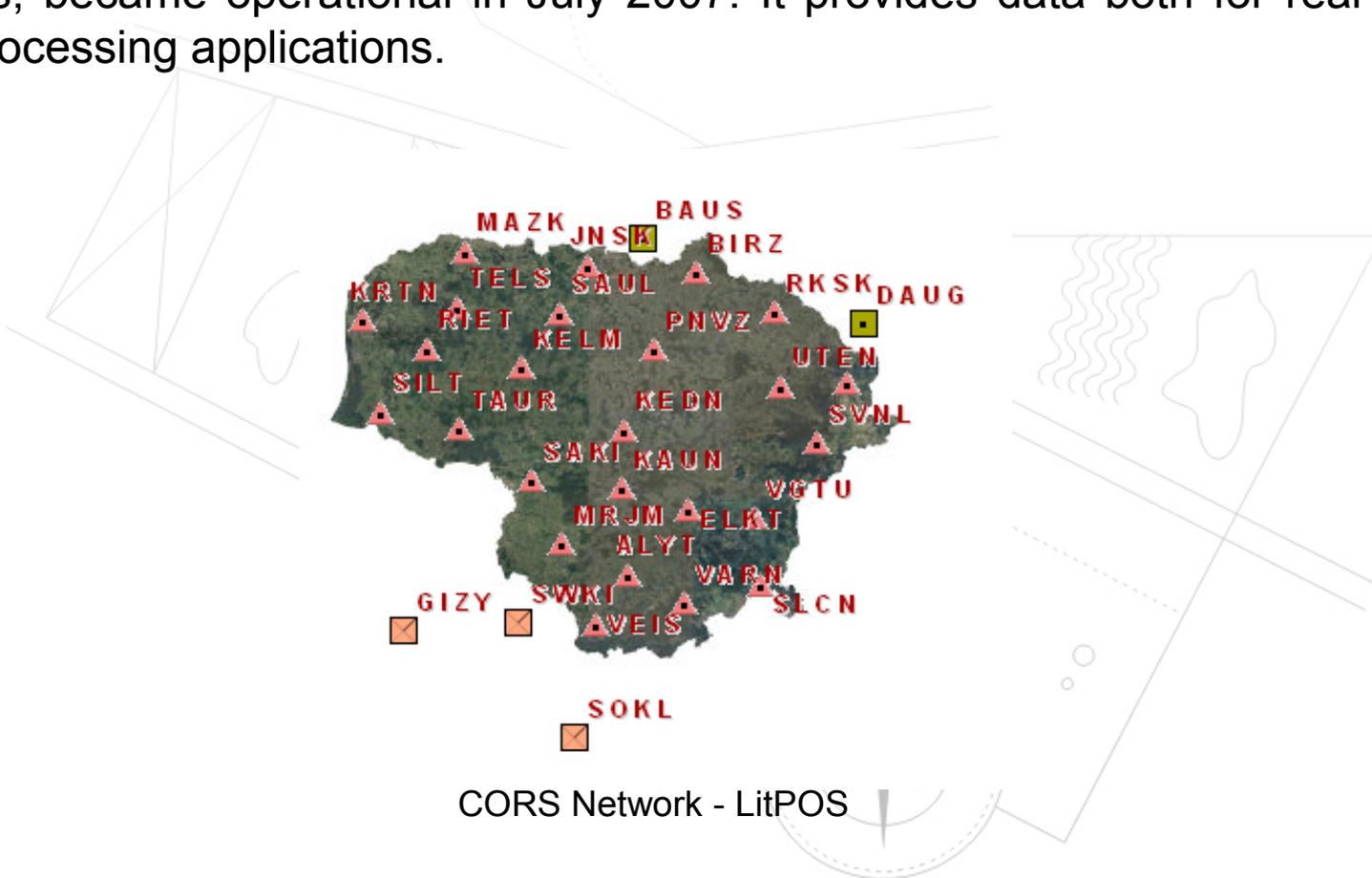
- CORS Network LitPOS
- Vilnius EPN station
- Orthophotomapping
- Second order vertical network



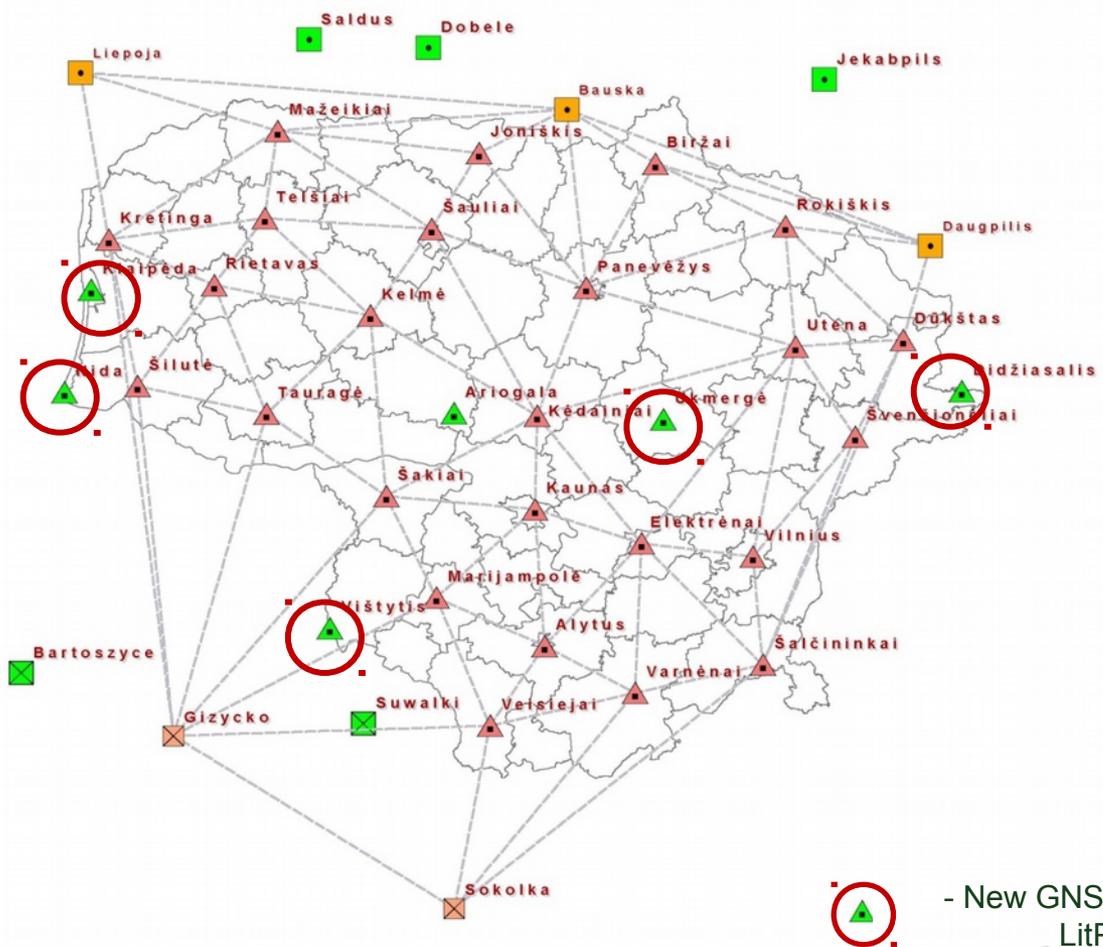
LitPOS(1):



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.



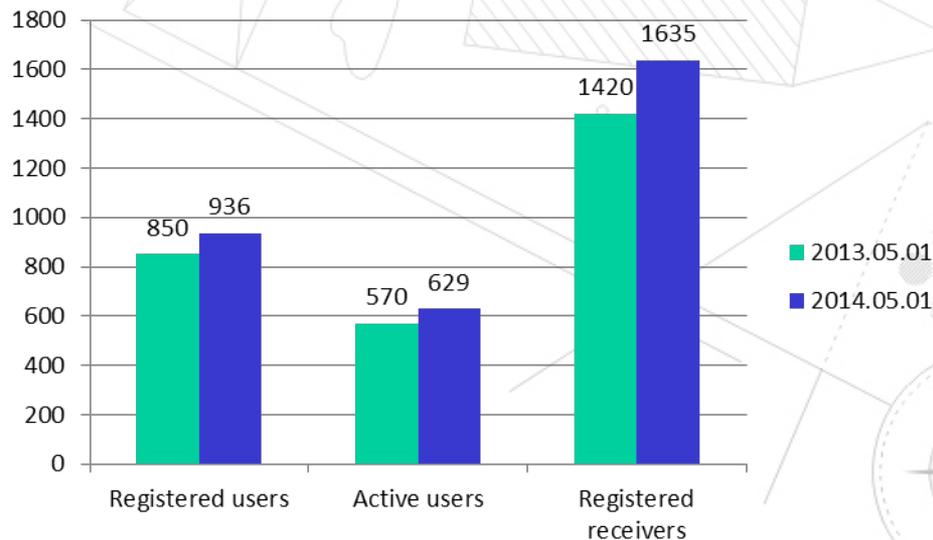
2013-2014: added 5 new GNSS stations.



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.

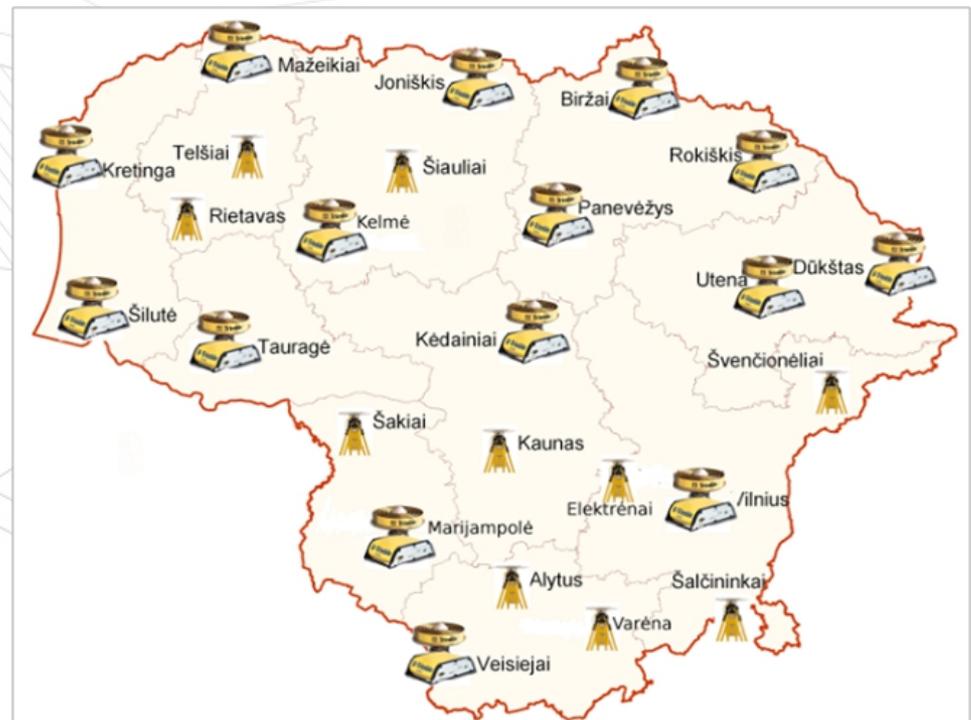
User statistics (2014-05-01):

- **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)

PICTURES



OPERATIONAL CENTRE **VGTUGI**

OTHER NETWORKS **IGS, FOS, ECGN**

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

INACTIVITY PERIODS None

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

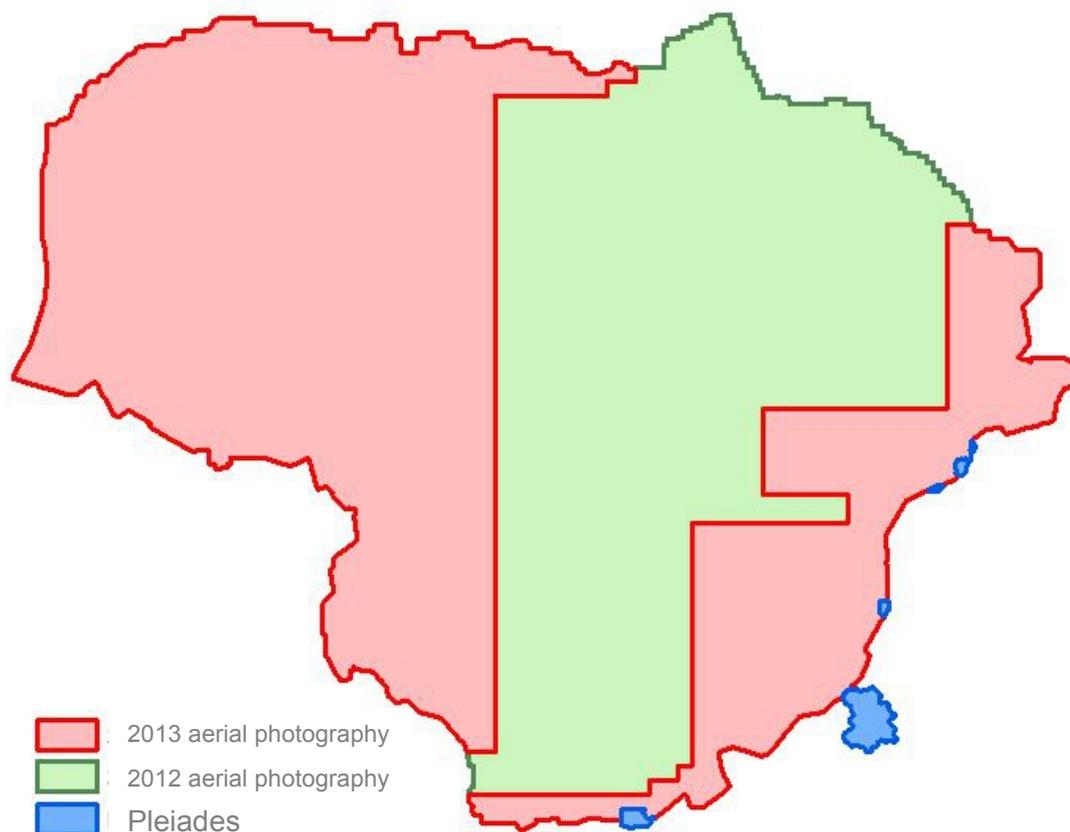
INDIVIDUAL ANTENNA CALIBRATIONS None

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);

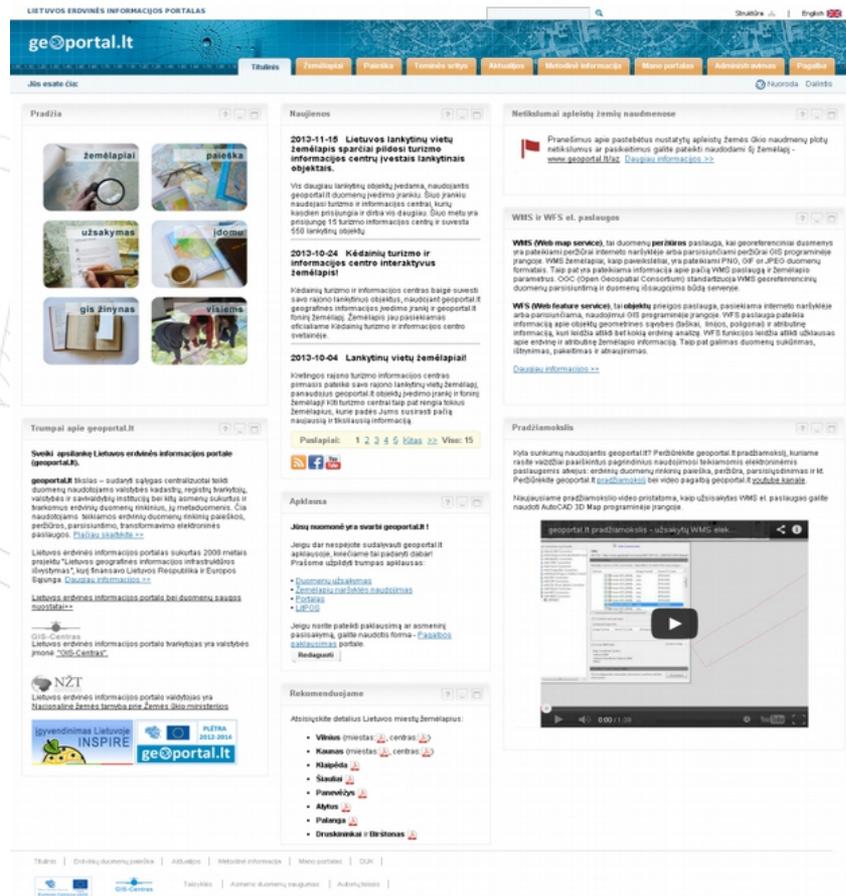
Foreseen – 2200 km (in 2013-2015);

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

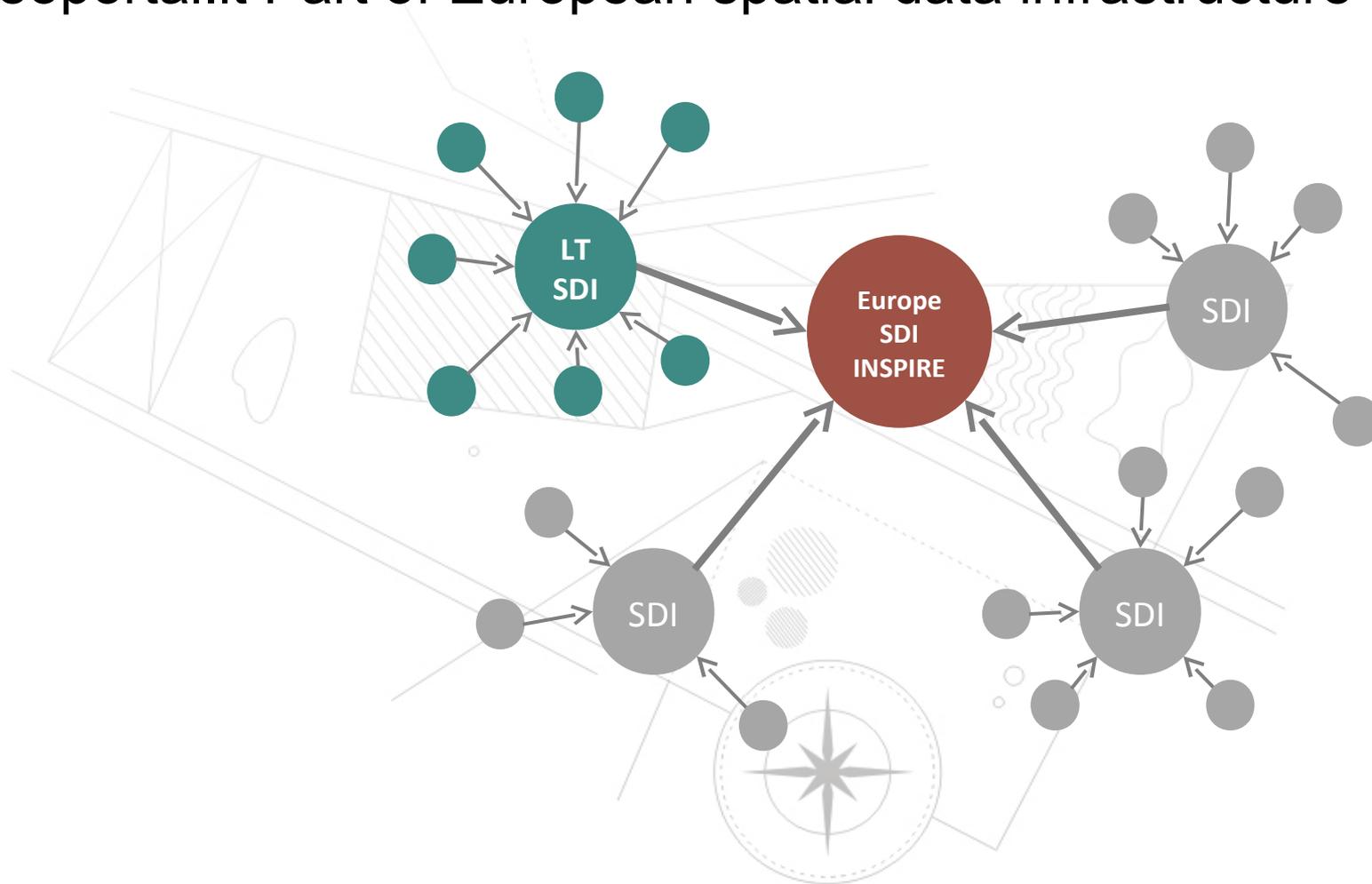
Characteristics of projected 2nd order Network

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

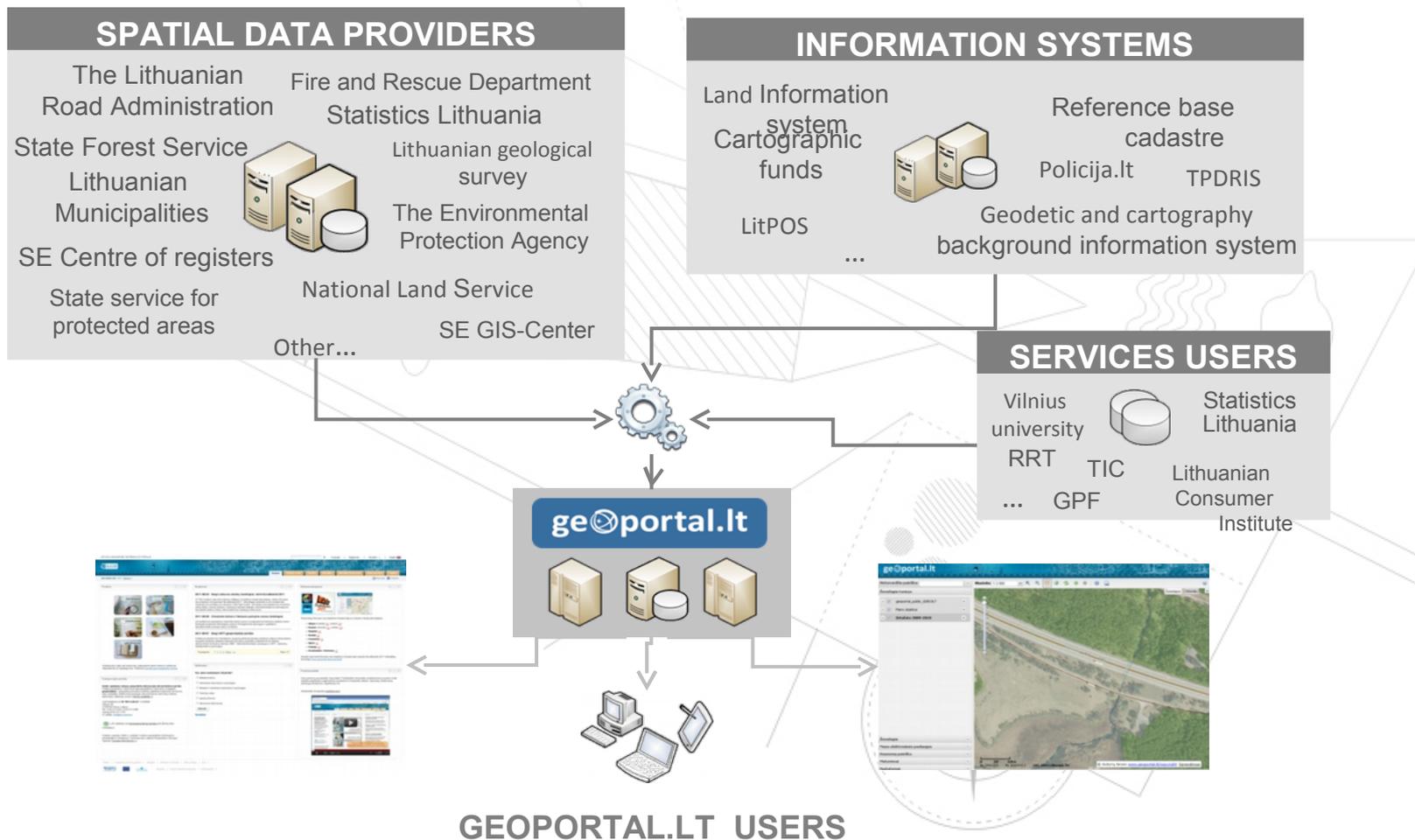
Geoportal.lt One place for national spatial data access



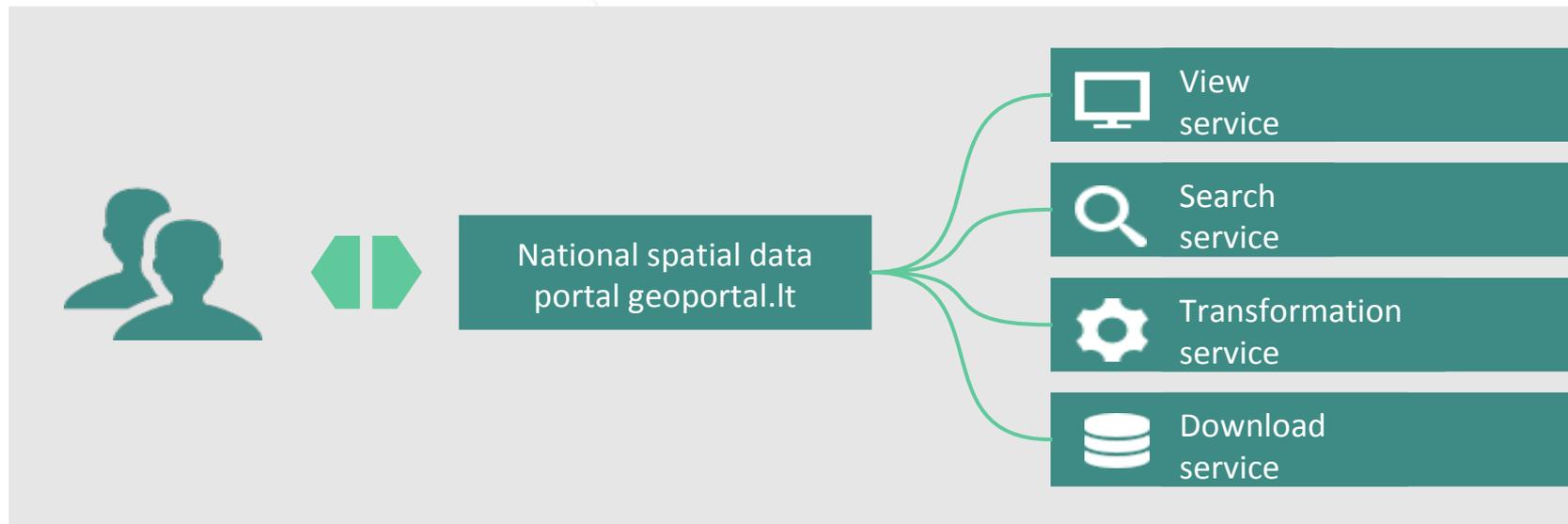
Geoportal.lt Part of European spatial data infrastructure



Geoportal.lt One place for national spatial data access



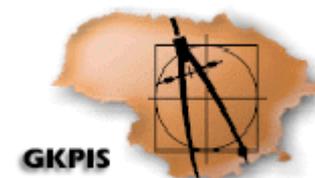
Geoportal.It Get the data you need



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

THANKS FOR YOUR ATTENTION !



LITPOS

www.gi.ap.vgtu.lt

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