


Agricultural Aspects of Side-based Monitoring: User perspective



National Land Service under the
Ministry of Agriculture

Cadastre & Geodesy Department Director
Saulius Urbanas

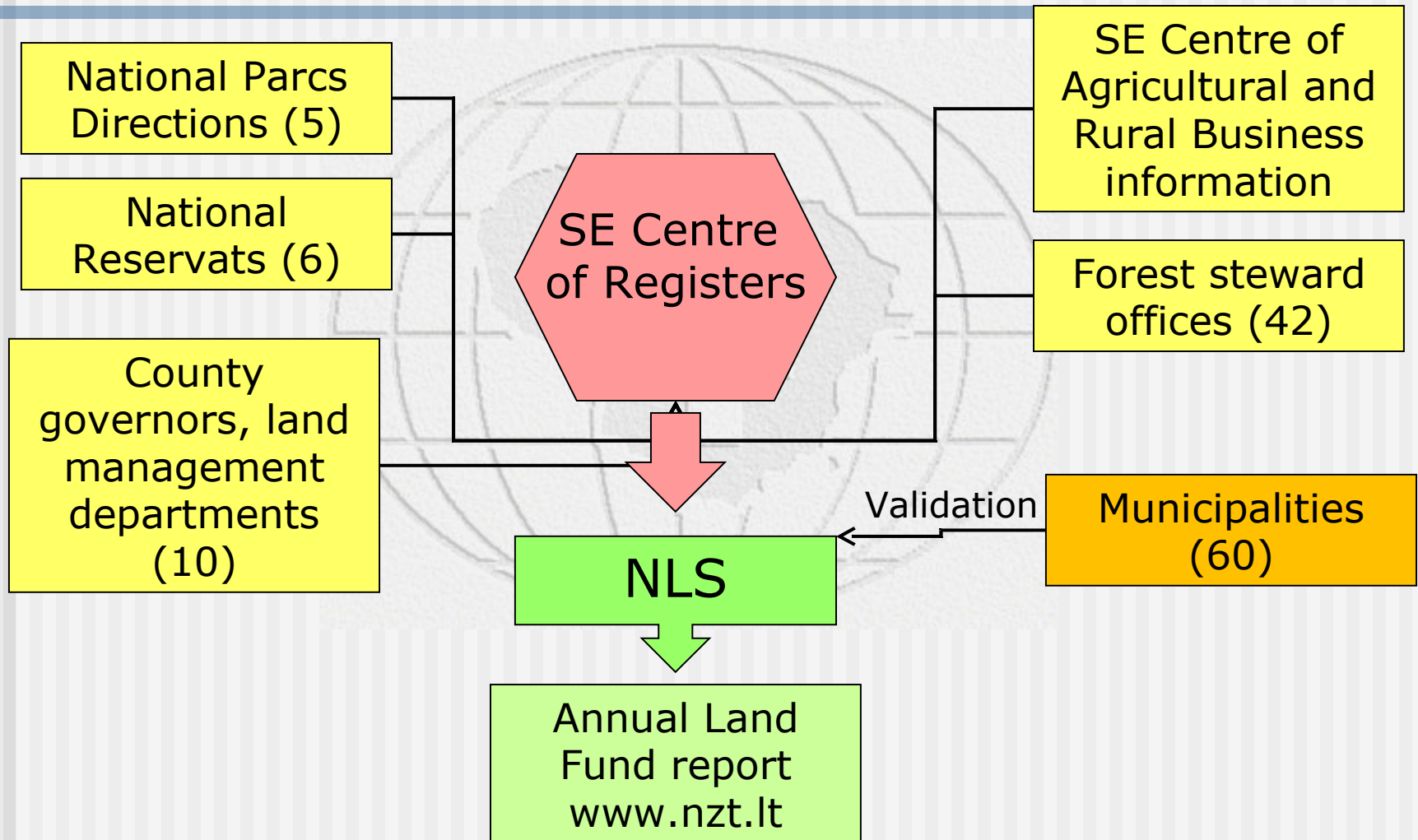
Annual land cover / land use inventory and monitoring

- Land law
 - Land Information System
 - Land Fund definition
 - Law on Statistics
 - Order of the Ministry of Agriculture on State land accounting
 - Annual Land Fund inventory rules
- 

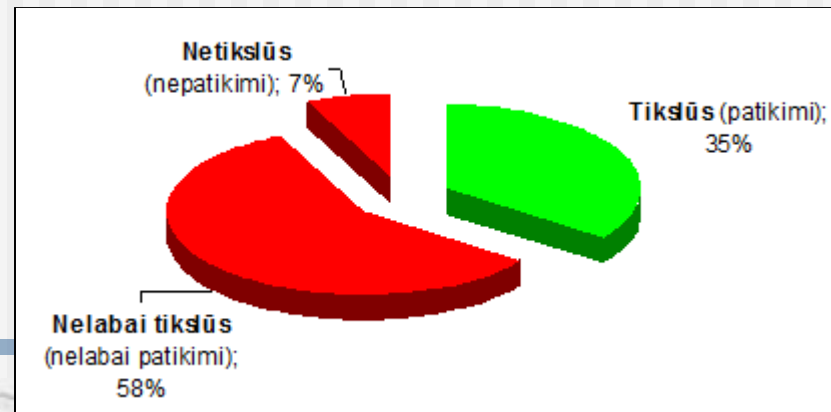
Land Fund Inventory: classification

- According to principal (legal) purpose of land use
 - Agriculture, Forest, Water, Conservative, other
- According to land user groups
 - Private (personal, juridical), State, Municipal, preserved areas, residential,
- According to land use
 - Agricultural (arable, orchards, grassland), forest, roads, build-up area, water, other (vegetation, marches, wastland, non used land)
- Statistics by cities, municipalities, counties, state

Management of data collection (124 authorities are involved)

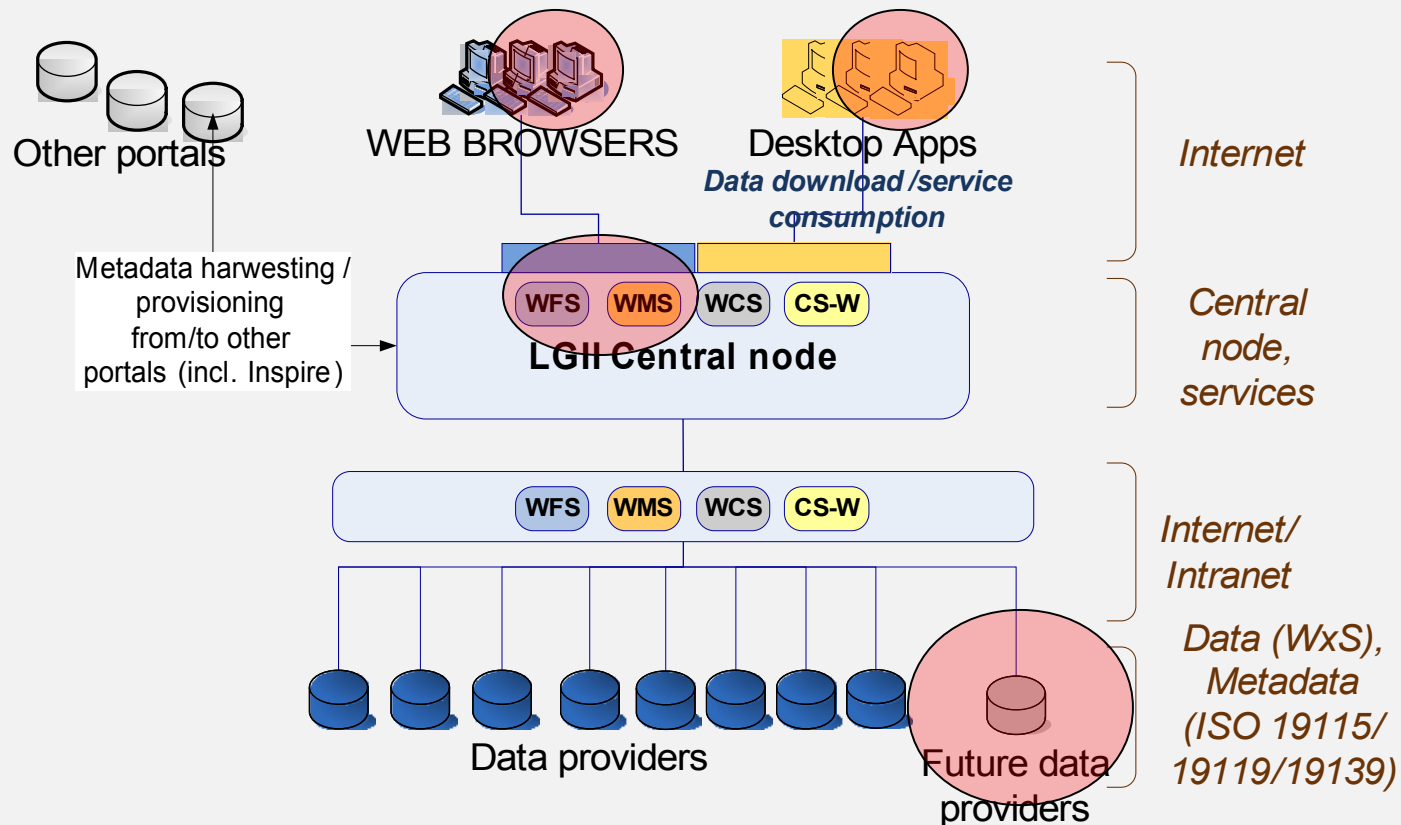


Problems

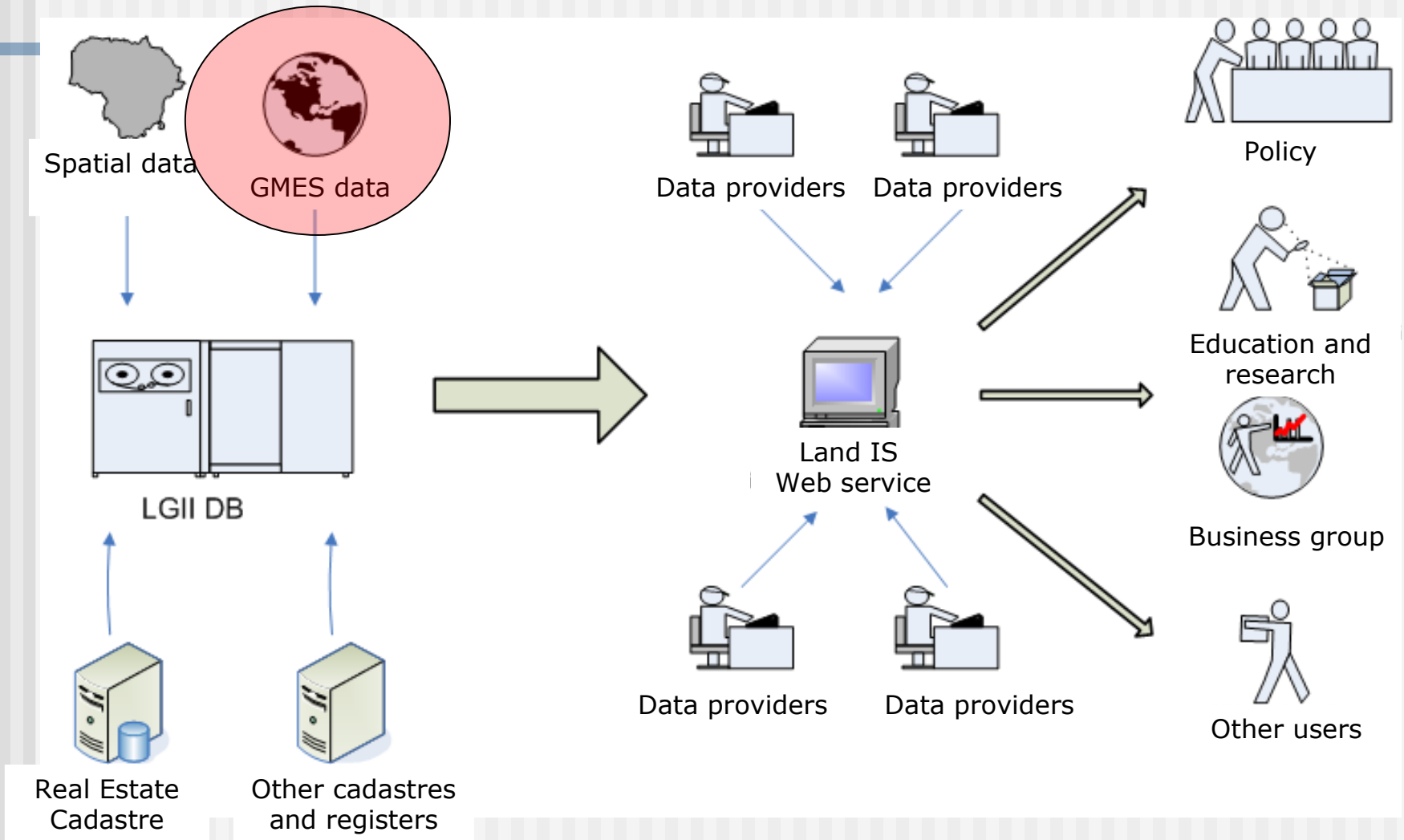


- Low accuracy
 - old data source or assumptions based on cadastral information
 - Mapping data are not in use
- Some data provision is duplicated
- Ineffective data collection / processing
- Disperse data sources
- Lack of control / cross-check

Land inventory service in the Lithuanian Geographic Information Infrastructure (LGII)



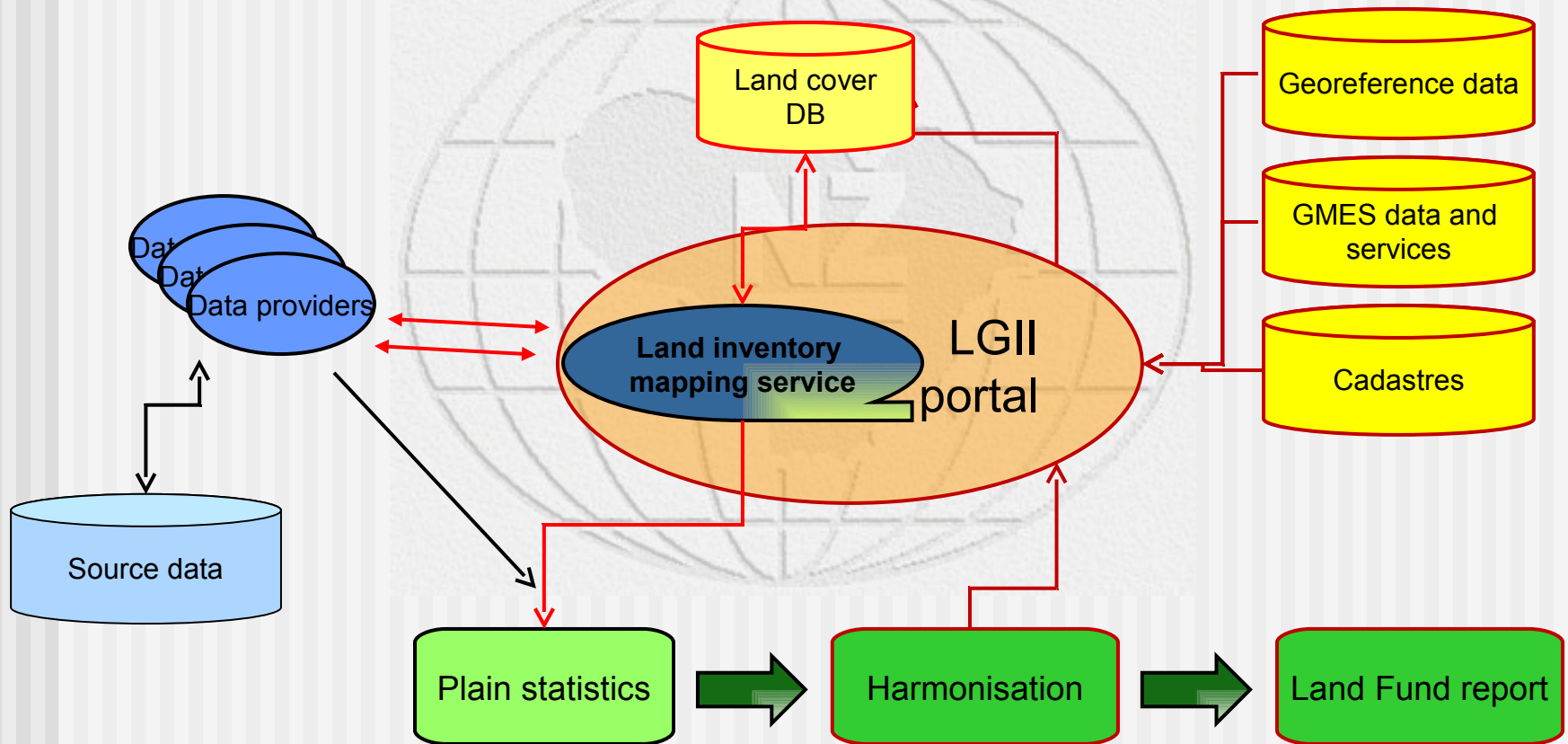
Way to go...



Prospects, case study

- Separation : legal part vs land use (land cover) data
- Simplification of the classification based on Eurostat spec
- Land fund layer in the national georeferential framework:
 - Scale 1:10 000 – 1:50 000
 - Source – satellite imagery or/and orthophotos
 - LANDSAT, SPOT, IRS, ENVISAT, etc.
 - Annual update or change detection
- Land Fund inventory application in the Land Information System
- Automated data collection from the state cadastres / registers

Land Fund inventory application



Expectation from GMES/Geoland

- High resolution and up-to-date land cover and land use satellite data
- Data delivery mechanisms (GMES Core Mapping Service)
- Know-how on sampling and automated data processing
- Change detection functionality
- Common requirements for land cover data:
 - Classification
 - Accuracy
 - Data source / processing requirements
- Harmonisation according to INSPIRE rules

Thank you for the attention...

