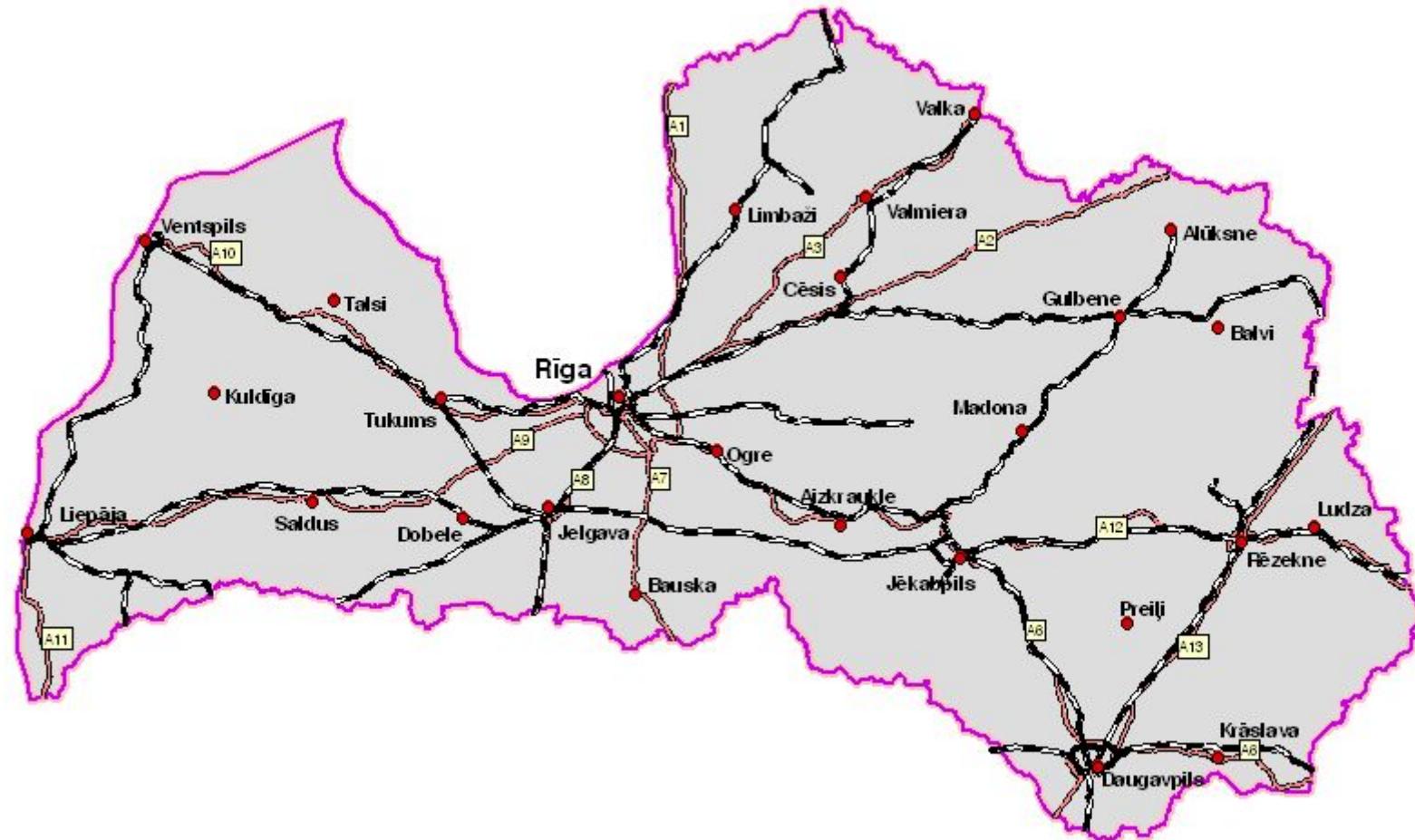


Riga Multifunctional RTK Network – Subset of UPOS®.

G.Silabriedis¹, ¹,

G.Silabriedis – Rigas GeoMetr SIA

J.Balodis – University of Latvia







European Position Determination System

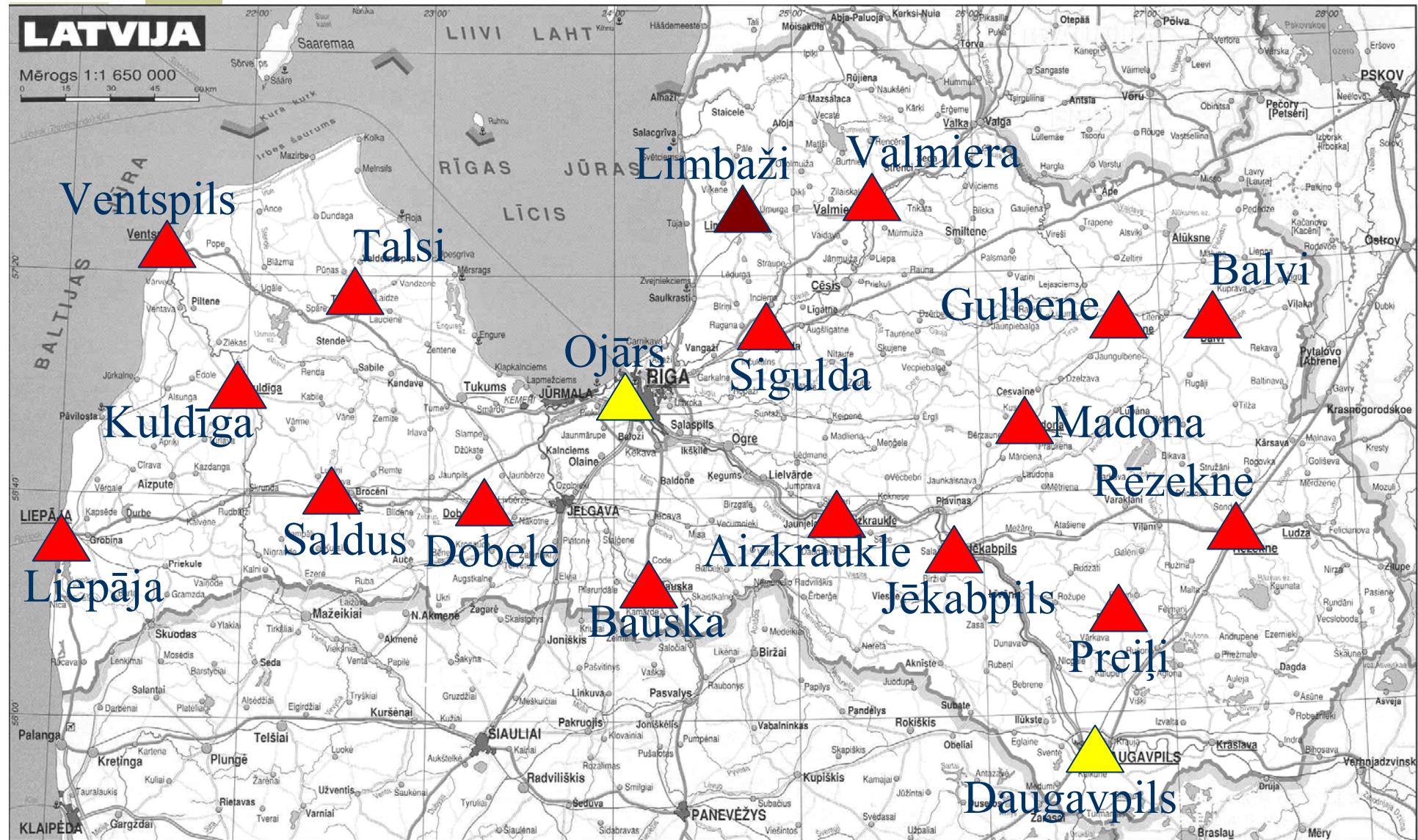


Topically: June 2004

LATPOS

Uztver: NAVSTAR (ASV)

GPS stacijas:



Riga city



*Gunārs Silabriedis,
RD PAD
Geomātikas pārvalde*



Rīgas GeoMets main tasks

- ◆ to perform the historic map data for land reform and land privatization;
- ◆ to manage the Address Register;
- ◆ to perform land use planning and cadastral surveying in Riga city; to perform land use planning;
- ◆ responsible for the geodetic infrastructure to perform surveying and mapping in Riga city;
- ◆ regularly update and monitor the large scale maps of Riga city ,
- ◆ participation in the project *EUPOS®* with Riga multifunctional GNSS positioning system.

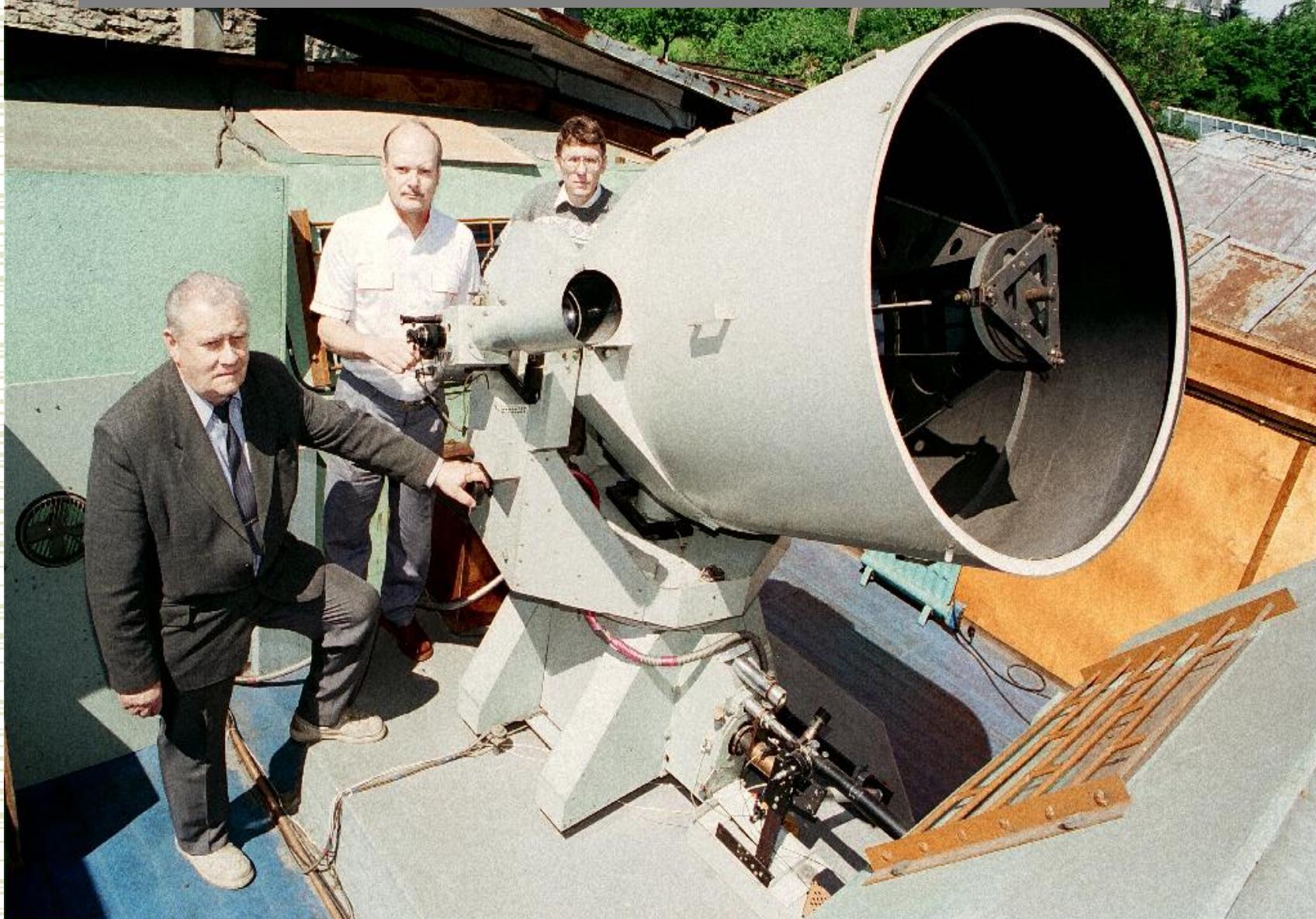




36



Riga-1884 laser telescope with operating staff from left to right
Kazimirs Lapushka,Igors Abakumovs, Valdis Laposhka.





Institute of Geodesy and Geoinformation

- ◆ 1. Satellite Laser Ranging Systems:
 - ◆ PSLR
 - ◆ SLR for LEO satellites
 - ◆ Capabilities for Galileo
 - ◆ Zenith telescope
- ◆ 2. Network RTK - EUPOS®
- ◆ 3. Geo-information

PSLR



PSLR



PSLR



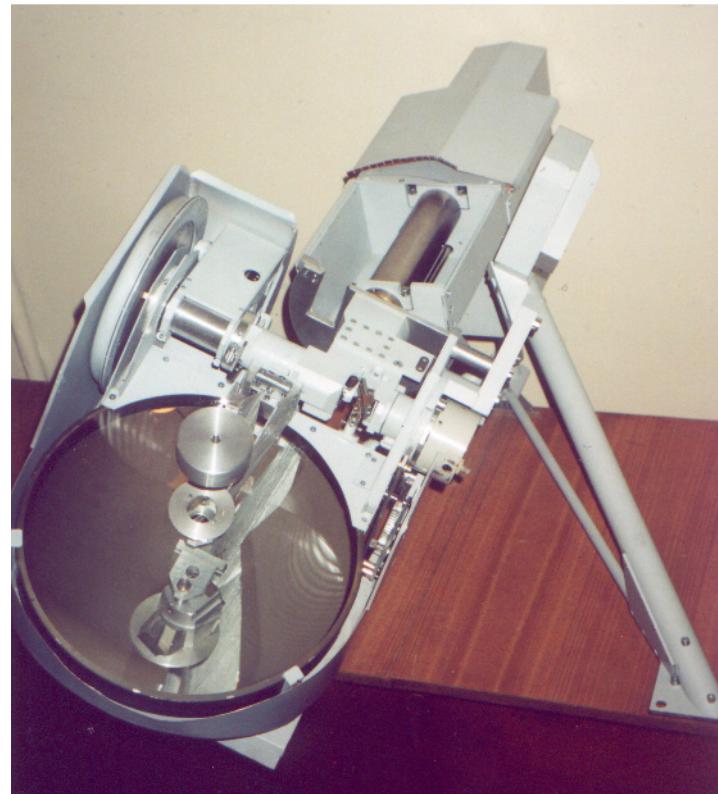
SLR for LEO Satellites



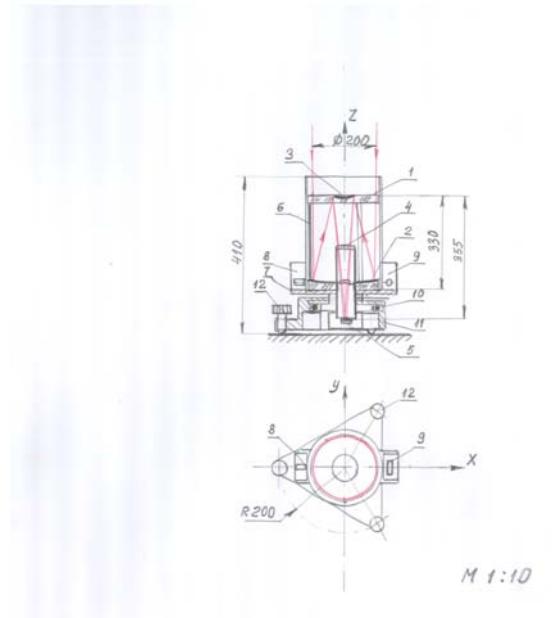
SLR for LEO Satellites



SLR for LEO Satellites



Zenith telescope



1.zīm. Zenitteleskops geoda pētišanai.

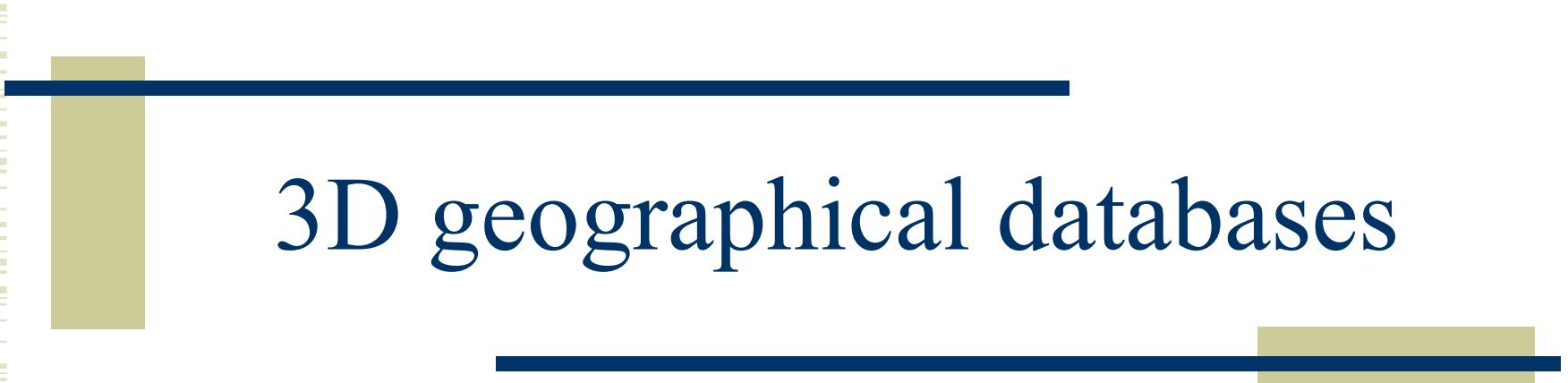


Geo-information



2D geographical databases
digital overview map of Latvia – database with
11 thematic layers, scale 1: 200 000

geographical database of Riga city – database
with 6 thematic layers, scale 1: 5 000



3D geographical databases

digital terrain model of Latvia
(raster size – 500 m, 200 m, 100m, 50m, 25m)

digital elevation models of Riga and other
cities: terrain, buildings, vegetation
(raster size – 10m or 5m)

RIGA TECHNICAL UNIVERSITY

Department of Geomatics
Prof. J.Strauhmanis

