EUPOS-RIGA

RĪGAS PILSĒTAS
PAŠVALDĪBA

Riga City Council
City Development Department

RĪGAS PILSĒTAS PAŠVALDĪBA

System description

- **Software:** GEO++ GNSMART 1.x
- **Server solution:** Virtual Windows server
- **Supported GNSS:** GPS + Glonass
- **Data output solutions:** VRS, FKP, RINEX
- **Receivers:** (4)Javad Prego, (1)Topcon NET G-5
- **Service cost:** Free of charge

RTK users

- **Total number of users: 57**
- Users from Riga City municipality: 6
- Surveyors: 46
- Universities: 3
- Other users: 2

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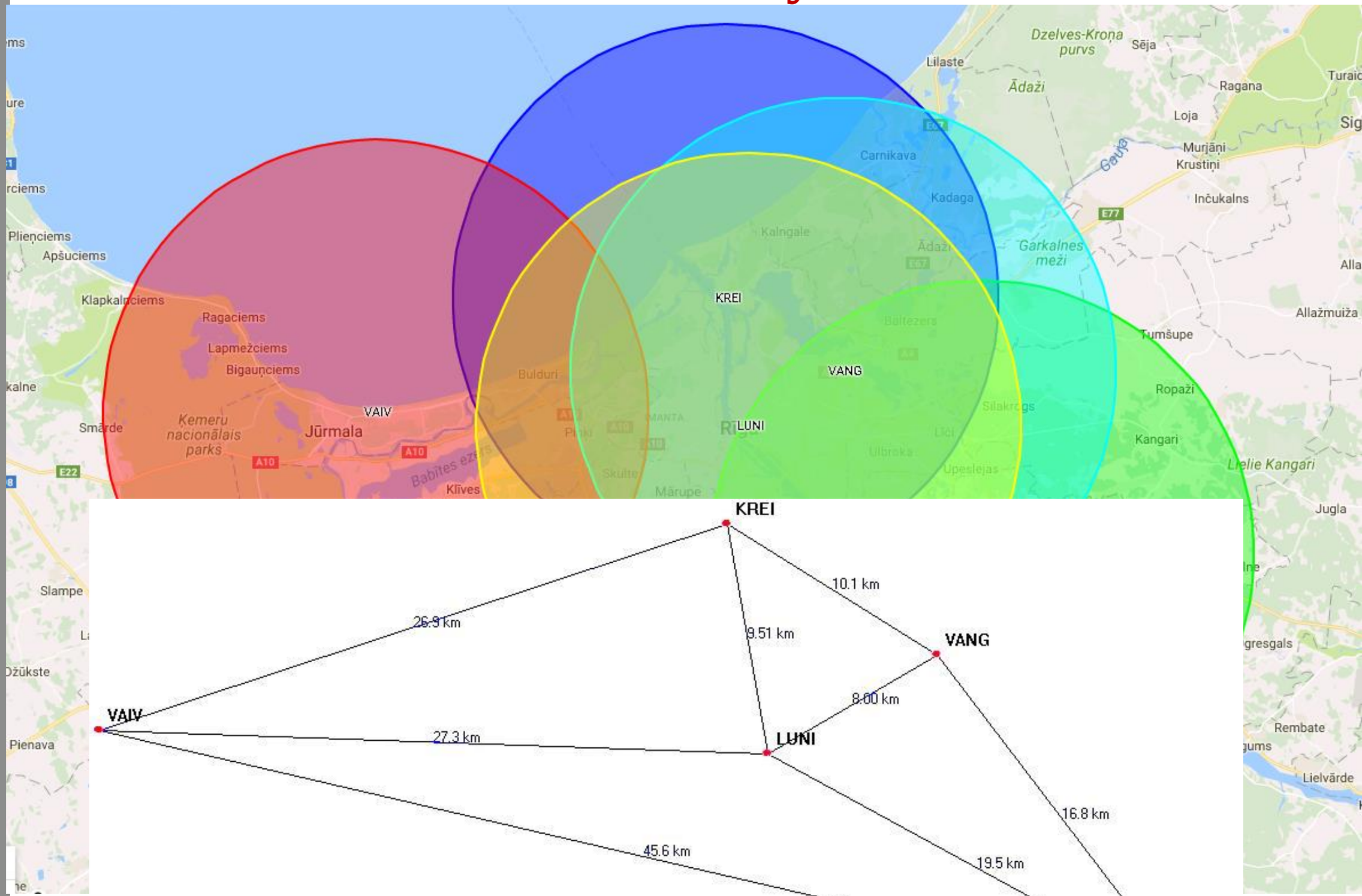
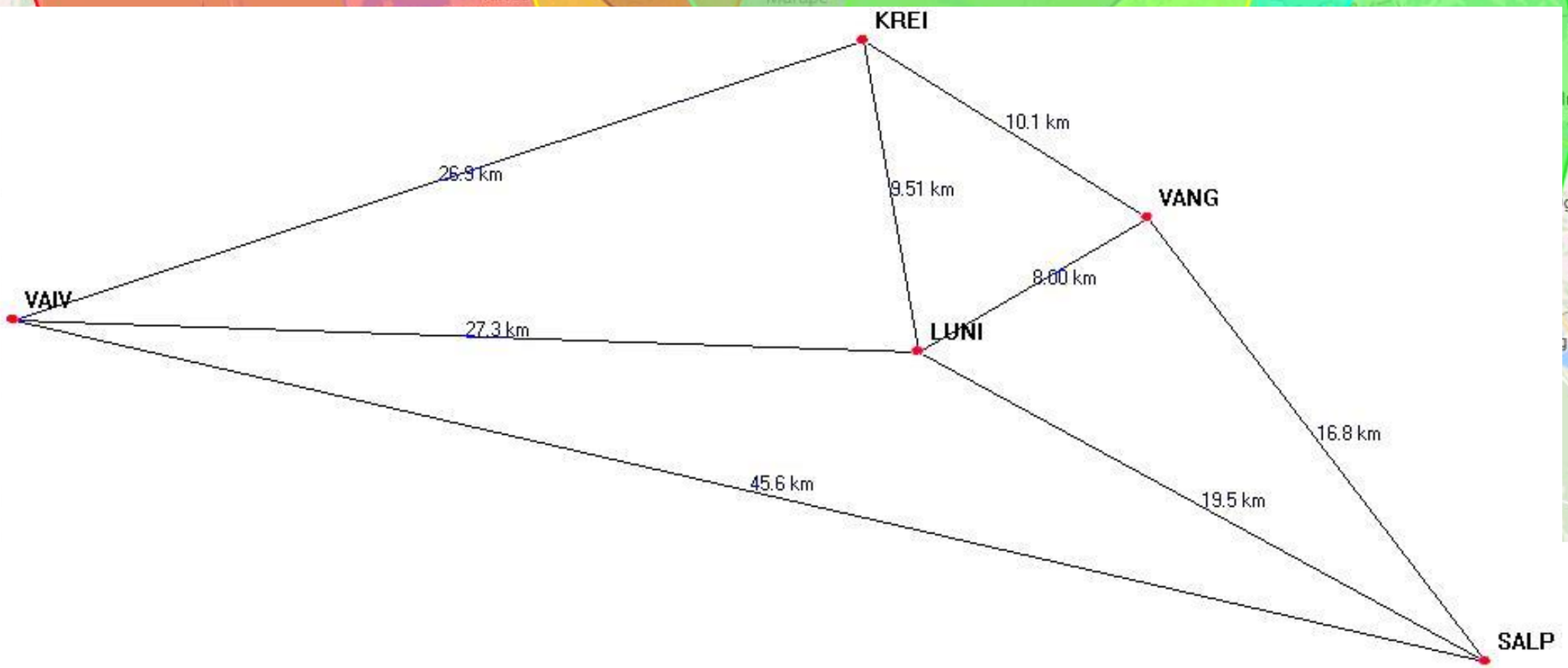
EUPOS-RIGA network today





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Developments plans for EUPOS-RIGA and Riga City

- **EUPOS-RIGA software upgrade to GNSMART 2.0**
  - Implication of Galileo;
  - Possible implication of Beidou.

- **Expansion of EUPOS-RIGA network coverage area**
  - Search for new reference station mounting location;
  - Optimising network geometry;
  - Increasing the use of RTK services on outskirts of Riga City.

- **Upgrade of Riga City quazi-geoid model**
  - Solution for insufficient geoid model LV'14;
  - Partial solution for City's insufficient level benchmark network.

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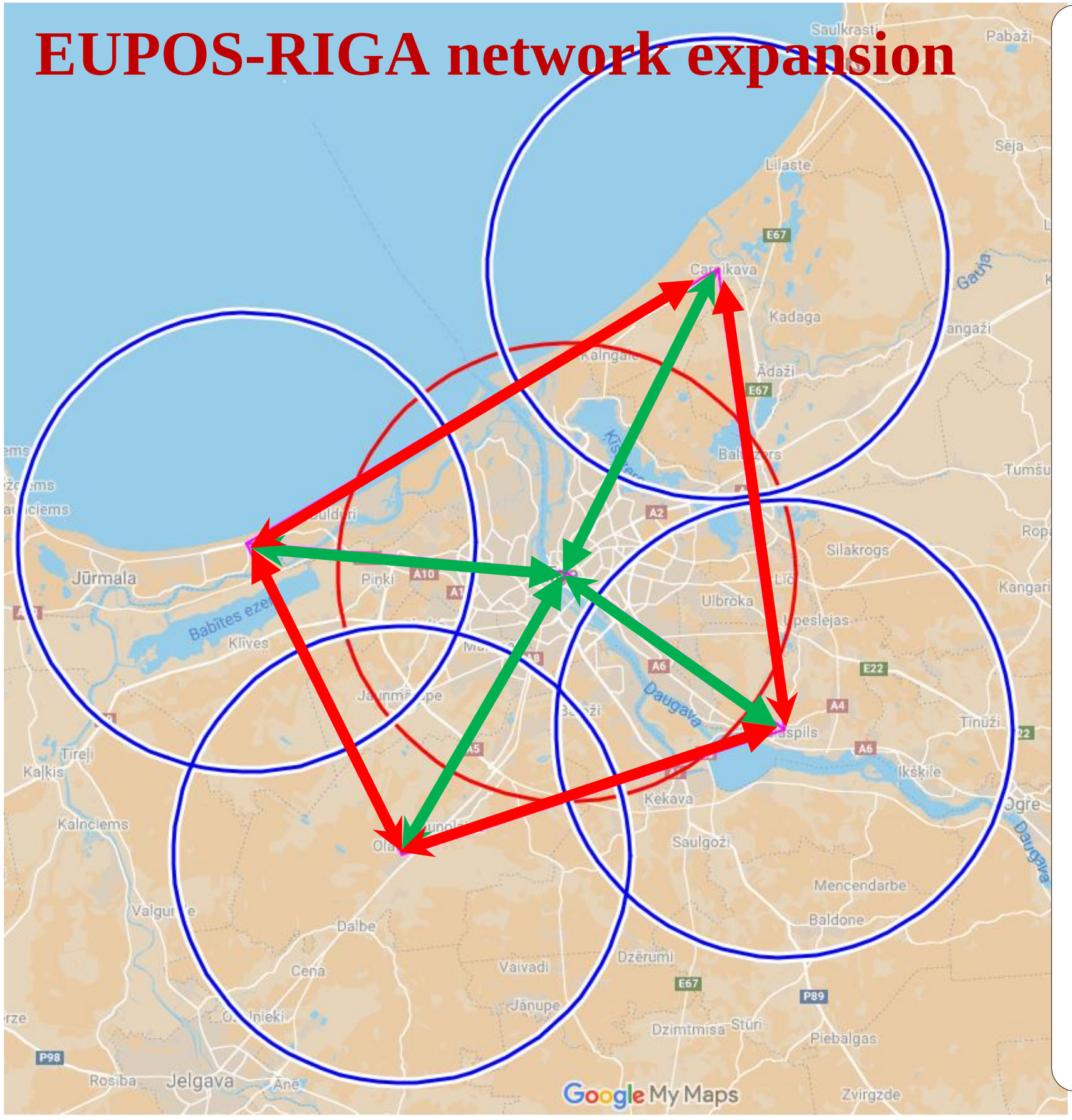
EUPOS-RIGA network expansion



- **Radius 15km;**

➢ **Outer stations - 17 to 22km from center station;**

➢ **Distance between outer stations - 22 to 30km**

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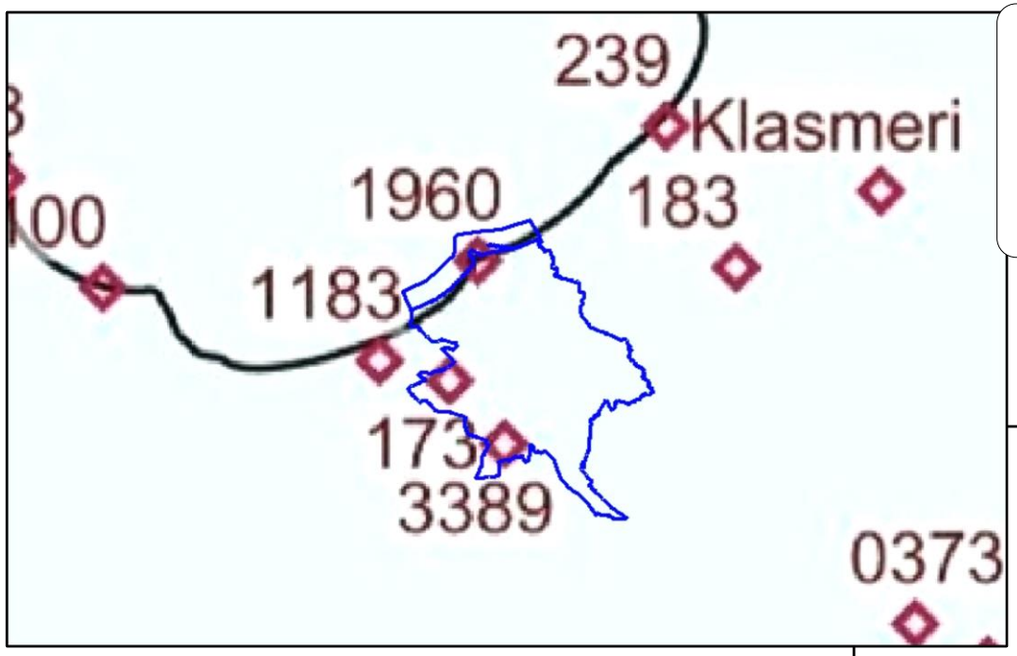
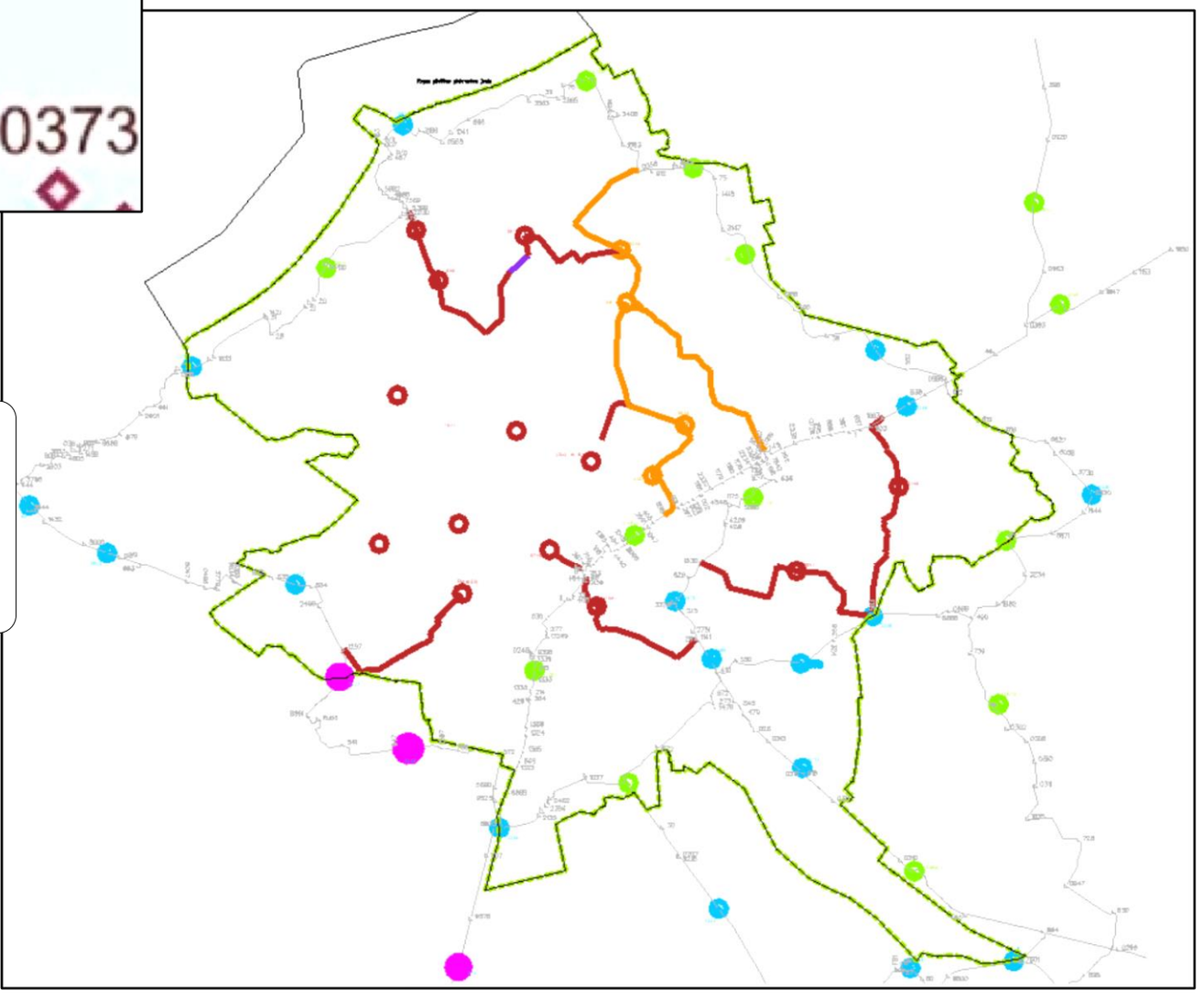
Riga City quasi-geoid model upgrade



4 ground points



40 ground points

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