

NATIONAL REPORT OF SLOVENIA

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Presentation topics

- Project of Modernization of Spatial Data Infrastructure
- National Vertical Reference Frame
- Other Activities

National Combined Geodetic Network (“zero-order network”)

6 stations (fully operational from 1. January 2016)



„double“ station PRILOZJE

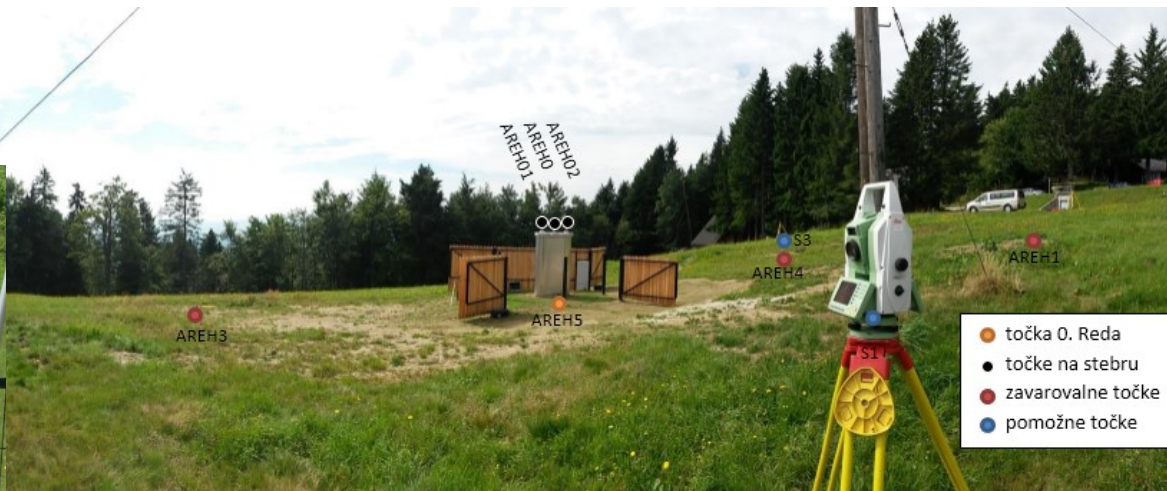


station KORADA



station SENTVID

Measurements (terrestrial + levelling + GNSS)



National Combined Geodetic Network (“zero order network“)

Aims:

- new, high-quality realization of national terrestrial/height reference systems =>

EUREF GNSS campaign in 2016

- monitoring of the geokinematics in Slovenia
- could contribute to European/other international projects (such as ECGN, EPN, IGS etc.)

New height reference system

Finally finished measurements (end of 2015)

- ~1.900 km levelled lines
- ~ 86 % benchmarks with gravity measurements
- 13 levelling loops

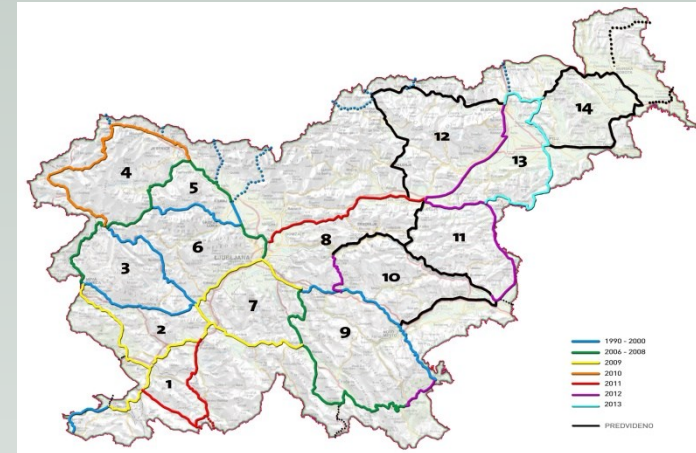
Change of height system:

*Normal-orthometric heights → normal heights

Change of height datum:

*Trieste tide gauge → Koper tide gauge

Same normal benchmark: FR1049 (established 1878)



Computation of levelling network

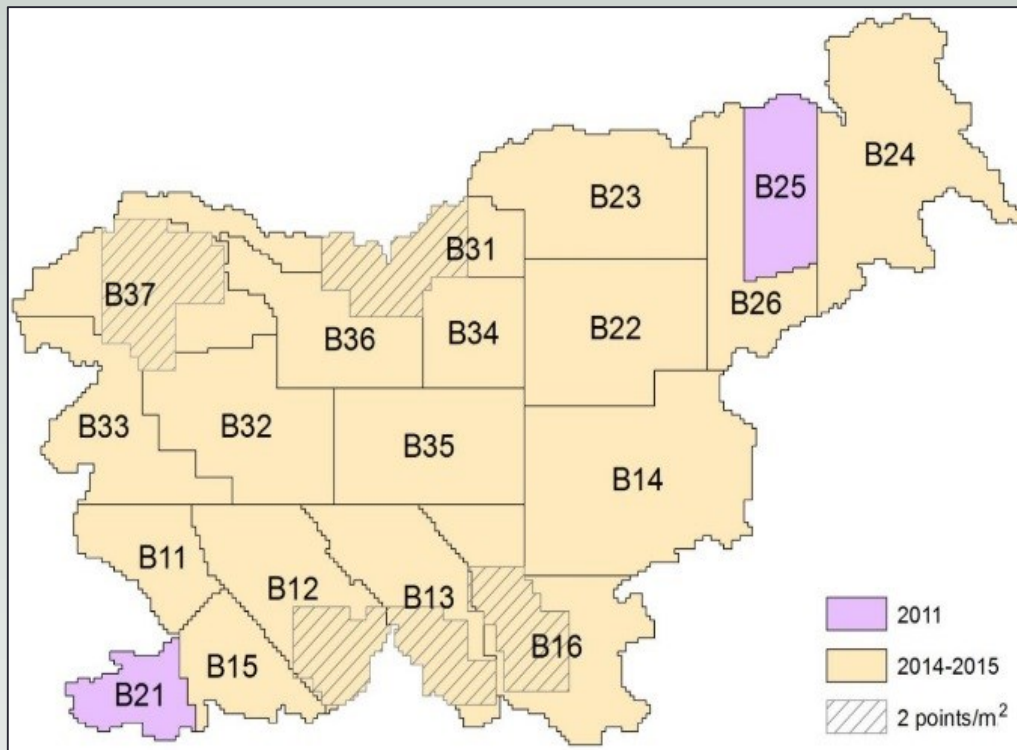
After adjustment of network (1.order):

- Accuracy of levelling loop misclosure: 0,43 mm/km
- Accuracy after adjustment: 0,50 mm/km
- Stand. dev. (on benchmarks): 1,6 – 4,3 mm, average 2,8 mm
- Shift Trieste-Koper: from 9 cm to 14 cm

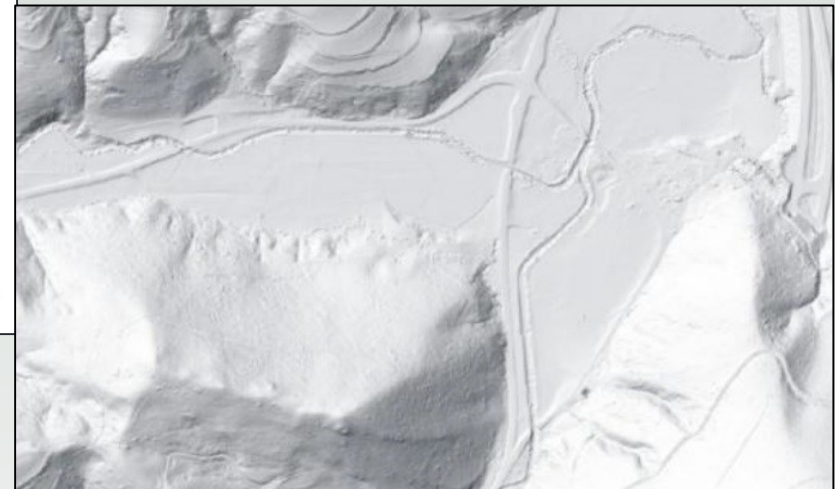
New network ready to contribute to EULN solution

Other activities

Nationalwide Aerial Laser Scanning



Covered 100% therithory of state
Density: 2-5 points/km2



Thank you for your attention