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Permanent Reference Stations

- Analysis of time series
- SINEX files to EUPOS Combination Centre
- Check commercial GNSS stations
Fig. 1. GNSS Stations Network
I order levelling

• 379 km have been levelled in year 2010.
• The inner consistency of measurements:
  – random and systematic errors are $\sigma = 0.18 \text{ mm} \sqrt{\text{km}}$, $\sigma = 0.03 \text{ mm km}$
Fig. 2. The I order Levelling Network
• The field works are expected to be finished in year 2012
  – In 2011, 6 additional lines will be monumented
  – In 2012 Levelling the last lines (400 km)
  – In 2012 Adjustment of whole network
• Project “Precise sea level measurements in Väinameri” has continuing in cooperation with the Marine Systems Institute (Tallinn University of Technology) and Estonian University of Life Sciences
  – The observations period (February 2009 – July 2010),
  – Loop 253 km
  – Misclosure 17 mm
  – Need for additional observations
Fig. 3. Sea level measurements

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Gravity activities

- Densification of network in SW-Estonia and Central-Estonia in year 2010 - 300 points
- No measurements on the ice
- New gravimetical geoid was calculated
Figure 4. Densification of gravity network
Local networks

- Only replacement of destroyed points
- 255 points destroyed
Inventory

- In East-Estonia 500 points
- Measurement distance from ground
- Photography
Legislation

• On 17 February 2011, Spatial Data Act was adopted, which creates basis for the implementation of INSPIRE directive in Estonia
Thank you for the attention!