



National Report of Sweden – activities at Lantmäteriet

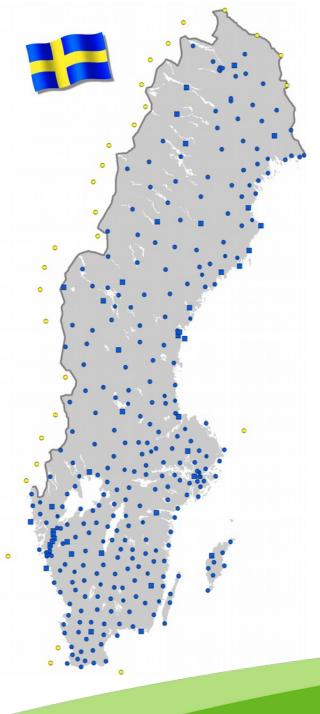
the Swedish mapping, cadastral and land registration authority

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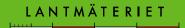


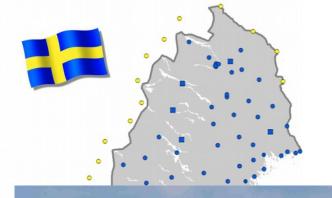




SWEPOS

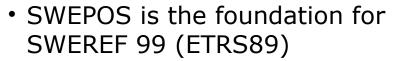
- SWEPOS is the foundation for SWEREF 99 (ETRS89)
- 307 stations
- Since 2010, 40 new stations each year (→ 400 stations in 2015)
- Some 2340 network RTK users
 (→ 220 new users since last yr)
- Densify from 70 km to 35 km
- 7 EPN stations
- In addition 20 new proposed EPN stations to be operational this year.







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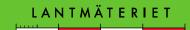


Geoid and gravity

- Today: ~1.5 cm leve geoid model (RMS)
- Goal by 2015: ~1 cm; goal by 2020: ~0.5 cm
- The NKG2014 geoid model to be completed this year
- Gravity data set improved by new measurements (~4-5 km spacing)
- New gravity system (RG 2000) to be introduced, based on absolute gravity (FG5 and A10)
- Epoch 2000.0 to be compliant to the height frame RG 2000 and SWEREF 99.



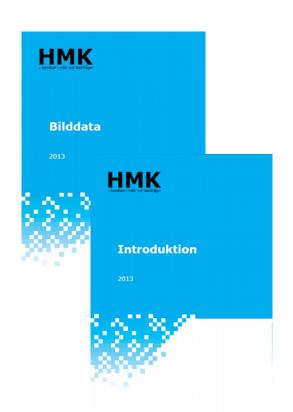








Handbook for Mapping and Surveying



- Lantmäteriet is working on a revised series of handbooks for mapping and surveying
- Involves other organizations, to get their opinions
- Geodata collection
 - Oriented aerial photography
 - Geo-referenced laser data
- Geodesy
 - Reference systems and frames
 - Geodetic surveys for photogrammetric control
 - Geodetic detail surveys







