



# **National Report of Sweden**

## **– geodetic activities at Lantmäteriet**

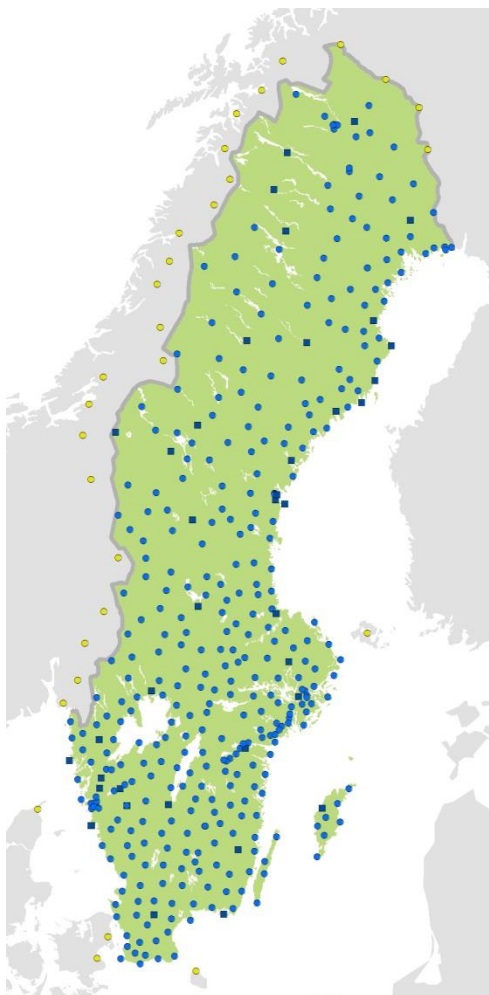
the Swedish mapping, cadastral  
and land registration authority

**EUREF 2015 Symposium**  
**Leipzig, June 3rd–5th 2015**

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Ågren, Andreas Engfeldt, Holger Steffen**  
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# SWEPOS





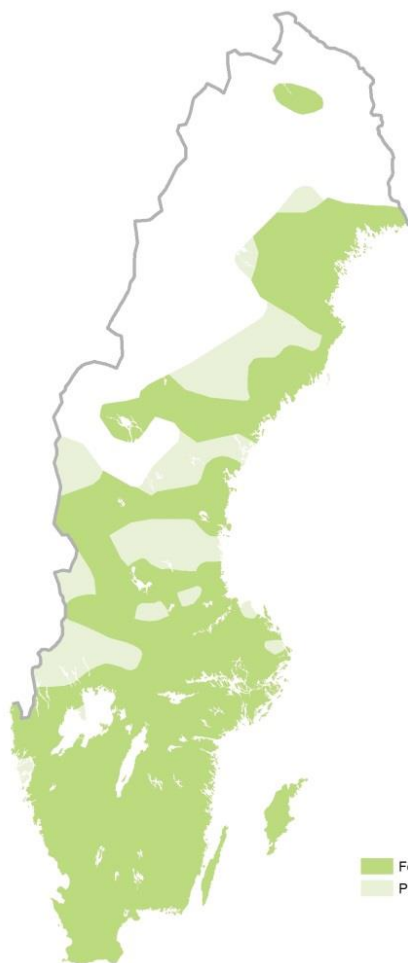
## SWEPOS – control centre







# SWEPOS



Förtätat nät  
Pågående förtätning

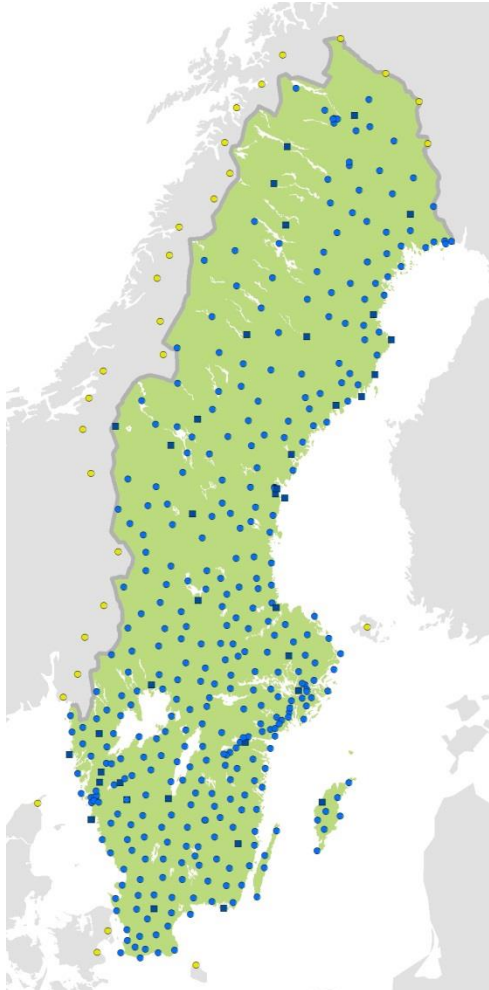


LANTMÄTERIET





# SWEPOS Network RTK Service







## SWEPOS Network RTK Service





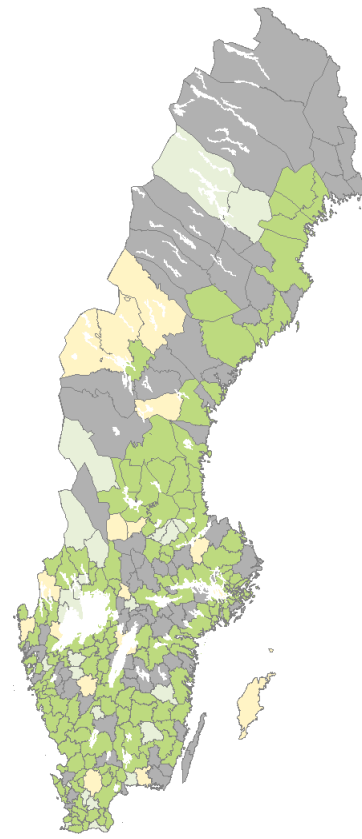
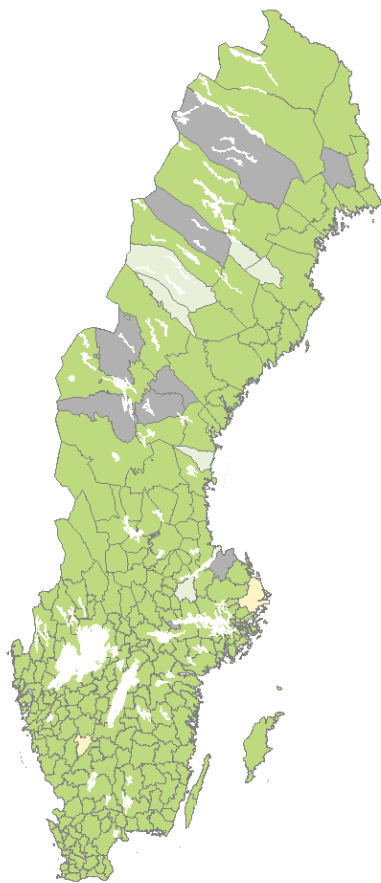
# SWEPOS Network RTK Service







# Implementation of SWEREF 99 and RH 2000







# Gravimetry





# Gravimetry







## New gravity network/system







# Geodynamics







**Questions?**



**Thank you for your  
attention!**

**National Report of Sweden  
Dan Norin et al.**

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# Back-up slides







## Summary 1(2)

- SWEPOS consists of 355 permanent reference stations for GNSS
- 24 stations are included in EPN
- Operates the NKG EPN Local Analysis Centre
- A GNSS analysis centre within NKG started
- General densification of approximately 40 stations/year
- SWEPOS Network RTK Service has approximately 2670 subscriptions
- Co-operation agreements with international GNSS service providers
- The implementations of the Swedish national reference frame SWEREF 99 and the national height system RH 2000 (ETRS89 and EVRS realisations respectively) are ongoing



## Summary 2 (2)

- 276 of 290 municipalities have implemented SWEREF 99
- 168 of 290 municipalities have implemented RH 2000
- Improvements of national geoid model through relative gravity measurements in specific areas
- New Nordic geoid model (NKG2015) is planned to be published during 2015 within NKG (the Nordic Geodetic Commission)
- Absolute gravity measurements with FG5 on 14 sites for e.g. Fennoscandian GIA
- New Swedish gravity system finalised 2016 including absolute gravity measurements by A-10 in new gravity network
- New 3D geophysical model developed within NKG, will be base for new Swedish land uplift model