



About Lantmäteriet



Lantmäteriet, the Swedish mapping, cadastral and land registration authority.

Lantmäteriet is a knowledge-based organisation, and the leading producer in Sweden of geographic databases and maps.

Lantmäteriet has been mapping Sweden since 1628.

LANTMÄTERIET

About Lantmäteriet

The task of Lantmäteriet is to contribute to an efficient and sustainable use of Sweden's real estate, land and water.



LANTMÄTERIET

2012-12-20

7

Geodesy 2010

... is the Strategic plan for our geodetic work

Includes a presentation of the most important activities for the coming 10 year period

www.lantmateriet.se/geodesi



Strategisk plan för
Lantmäteriets geodesiverksamhet
2011 - 2020

Vår vision

är att tillgodose samhället med en enhetlig hållbar geodetisk infrastruktur
samt säkerställa dess tillgänglighet och användning.

LANTMÄTERIET

2012-12-20

8

Strategic Plan for Geodesy in Sweden



Our vision

- is to be able to meet Swedish society's needs for a homogeneous, sustainable geodetic infrastructure and to guarantee its availability and use.

Geodetic infrastructure:

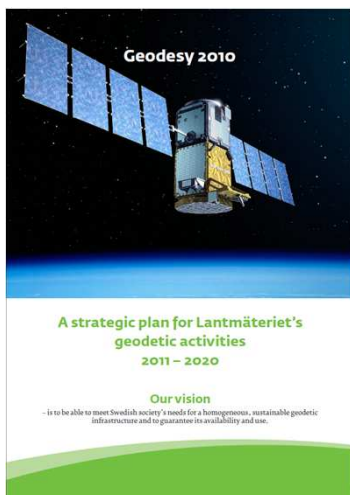
Geodetic reference systems and networks (passive and active)
Systems for the provision of data and support

LANTMÄTERIET

2012-12-20

9

Strategic Plan for Geodesy in Sweden



Third document of "10 years plans"

- Important for Geodesy at Lantmäteriet
- Important for Geodesy in Sweden

Geodesy 90

- focus on a national CORS

Geodesy 2000

- Focus on national network RTK
- Focus on national reference systems

LANTMÄTERIET

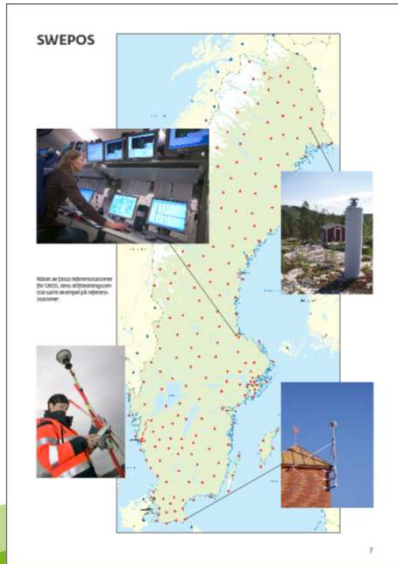
2012-12-20

10

Focus on efficient use of GNSS in Sweden

SWEPOS – The Swedish national CORS

National Network-RTK service



11

The Strategic Plan has a strong focus on the Users

- **New users:** Machine control and guidance, agriculture
- These users not so interested in the geodesy but want the "black box" to work.



Good Coordination starts with good coordinates

- All spatial data includes a position.
- A common reference surface is needed!
- In Sweden that is SWEREF 99 och RH 2000.
- The Geodetic infrastructure is a part of the national infrastructure!



LANTMÄTERIET

2012-12-20

13

We will focus on ...

Complete the transition to SWEREF 99 and RH 2000

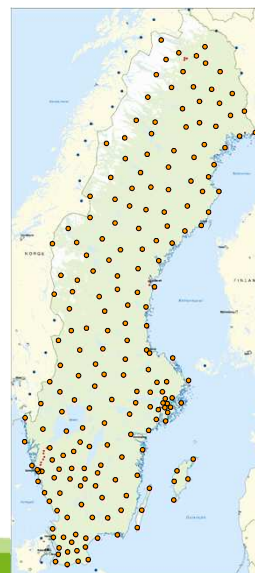
Voluntary changes!

- No legislation regarding SWEREF99, RH 2000
- Well developed cooperation and understanding between Lantmäteriet and the users

To ensure the long-term sustainability of our reference systems SWEREF 99, RH 2000 and RG 2000

More accurate heights from Network-RTK

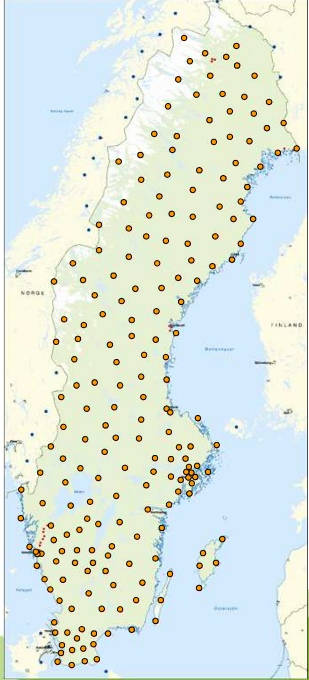
Densification of the SWEPOS network
Strive to promote an early introduction of modern GNSS



LANTMÄTERIET

2012-12-20

14



SWEPOS®

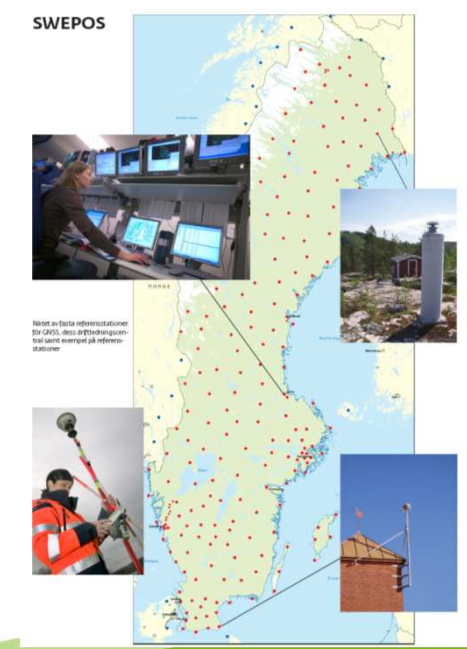
A national network of permanent GNSS stations, a part of the national geodetic infrastructure

Establishment costs financed via governmental funding

Maintenance, the running of the stations and future upgrades financed by the user community via user subscriptions

LANTMÄTERIET

2012-12-20 15



SWEPOS®

Real time services

- Network-DGPS-service
- Network-RTK-service

- SWEPOS Automatic calculation service
- Post processing data (RINEX-data)
- Geodesi 2010 mentions a densified SWEPOS to secure the availability and redundancy and increase the accuracy
- GPS, GLONASS, Galileo, Compass

LANTMÄTERIET

2012-12-20 16

SWEPOS Stations



2012-12-20



17

Our international role

- Geodesy is global and we use international cooperation to solve national issues
- National \Rightarrow Regional \Rightarrow Global
- Our national coordinate and height systems used to be national. Today they are part of international systems.
- We contribute with geodetic observations to international organisations. In return we get access to global products
- We are active in international cooperation.



LANTMÄTERIET

2012-12-20

18

Summary

- Tradition to work with a 10 year plan.
- Needs to be translated into actions
- Coming period focus on "Heighting with GNSS" as well as developing the national CORS
- Challenge: Recruiting new staff.

