



### National Report of SWEDEN -activities at Lantmäteriet

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Martin Lidberg, 2011-05-24--27, Chisinau, Moldova

## **Geodesy 2010**

... the strategic plan for the geodetic activities at Lantmäteriet 2011-2020

### So, what will we do?

http://www.lantmateriet.se/upload/f iler/kartor/geodesi gps och detalj matning/geodesi/Geodesy 2010.pdf

or

http://www.lantmateriet.se/geodesi



# A strategic plan for Lantmäteriet's geodetic activities

2011 - 2020

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.

LANTMÄTERIET



2011-05-25

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EUREF 2011

#### **Common reference frame for all users!**

We will continue to help local authorities in the transition to ETRS89 and EVRS. (SWEREF 99 and RH 2000 in Sweden)

SWEPOS

Status March 2011: **SWEREF 99** ~ 220 completed **RH 2000** ~ 45 completed. of totally 290



Development in the user segment of precise geodetic infrastructure

→From experienced geodesists and surveyors to users where the precise positioning is an integrated part of the guidance or automatic control of the machine "the black box should just work and give me the support I have paid for"





#### **SWEPOS**<sup>®</sup>

 More stations ≻Today ~200 >2015, ~400 Users asks for improved vertical performance! Continuously update SWEPOS to comply to "state of the art" GNSS technology (GPS, GLONASS, Galileo, Compass?, L5, L2c etc) Users want to take advantage of the development in technology! Requires major efforts in standardisation!

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## **Improve the geoid model**

today at the 1.5 cm level (RMS) based on some 27 000 gravity points



SWEPOS

Users continuously asks for improved performance, specially in the vertical!

Geoid model at the 1 cm level (RMS) by 2015

→require renovated gravity system, quality check, and complementary gravity observations (~ 4000 field points)

Geoid model at the 0.5 cm level (RMS) by 2020.

→major improvements in geoid 201 modeling theory also needed!

**EUREF 2011**