





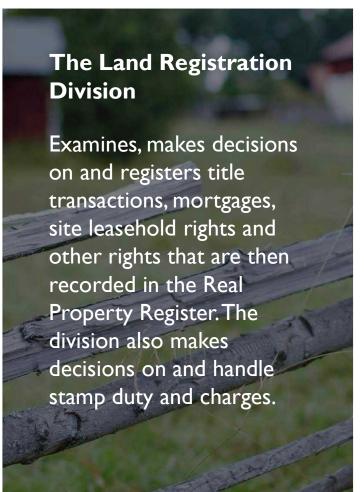
LANTMÄTERIET, SINCE 1628

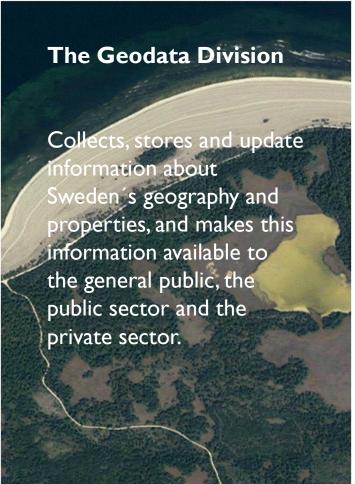
- The Swedish mapping, cadastral and land registration authority
- Belongs to Ministry of Finance.

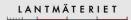
We want to contribute to a sustainable society with more efficient building and planning processes as well as economic development.

OUR CORE PROCESSES

Cadastral Service Division Responsible for property division. In other words, it makes decisions on new property units and making changes to existing boundaries. The division is also responsible for making decisions concerning joint properties, easements and rights of way.. NORRBY







WORKING TOGETHER WITH A NUMBER OF MINISTRIES

Ministry of Finance Report to. Open data Ministry of Environment Inspire, Height model

Ministry of Justice Development of law

Ministry of Education and Research
Research and Education

Ministry of Defence
military geospatial information, image and
information secrecy, disaster and
preparedness

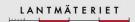
Ministry of Culture
Place names

Ministry of Enterprise and Innovation
Laser scanning for forestry

purposes

Ministry of Infrastructure digitalisation, PSI, planning and building process, broadband and access to land Ministry of Foreign Affairs
International services, national

boarders



COMPONENTS IN AN INFRASTRUCTURE! DO YOU AGREE?





A SUCCESSFUL NATIONAL COOPERATION! THE NATIONAL STRATEGY FOR GEODATA 2021-2025

Lantmäteriet in cooperation with participating authorities and organizations in the Geodata council



Goal Geodata is available Geodata is open Collaboration is Geodata is useful well developed

CHALLENGES FOR SOCIETY



Sustainable city development

Smart rural areas

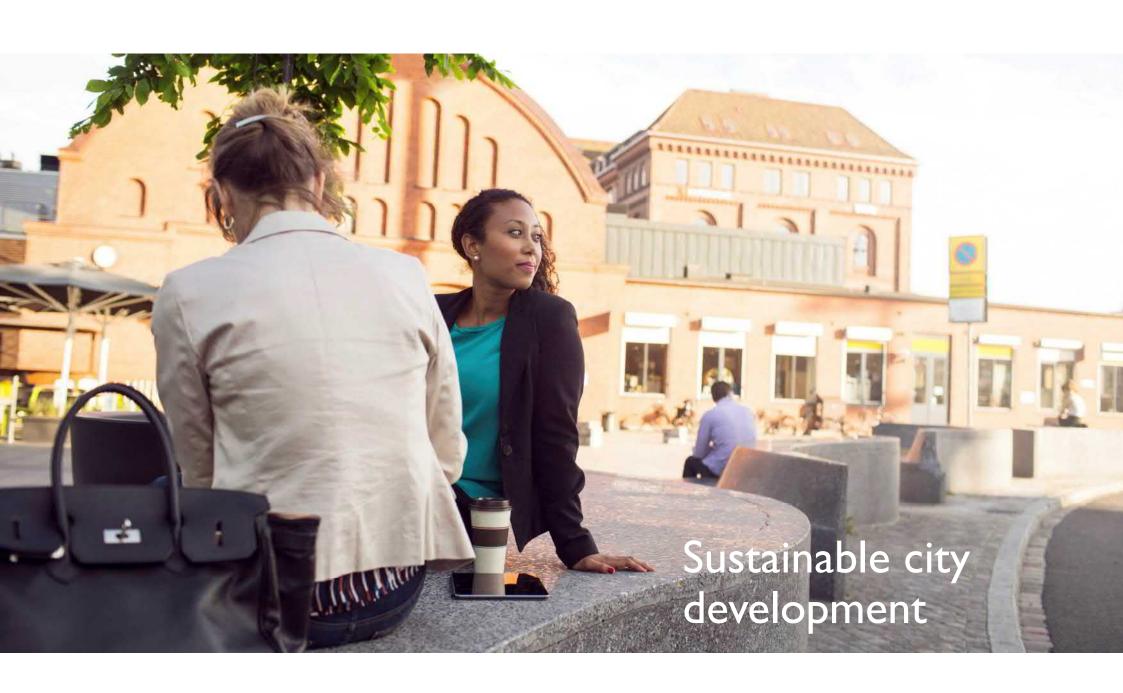




Climatization

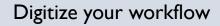
A secure and robust society





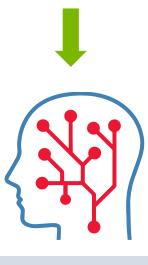
The steps towards a digital, data-driven urban planning and building process







Enables digital dialogue



Automate

Digitize, collect and structure data – secure information management

The Real Property Register - the history

- 1227 Oldest document about land transfer
- 1628 Establishment of mapping

Several different analogue registers as e.g.:

- Rural property register
- Urban property register
- The Courts The land books
- Local Tax authority Property taxation and land use
- The Municipalities Addresses and plans



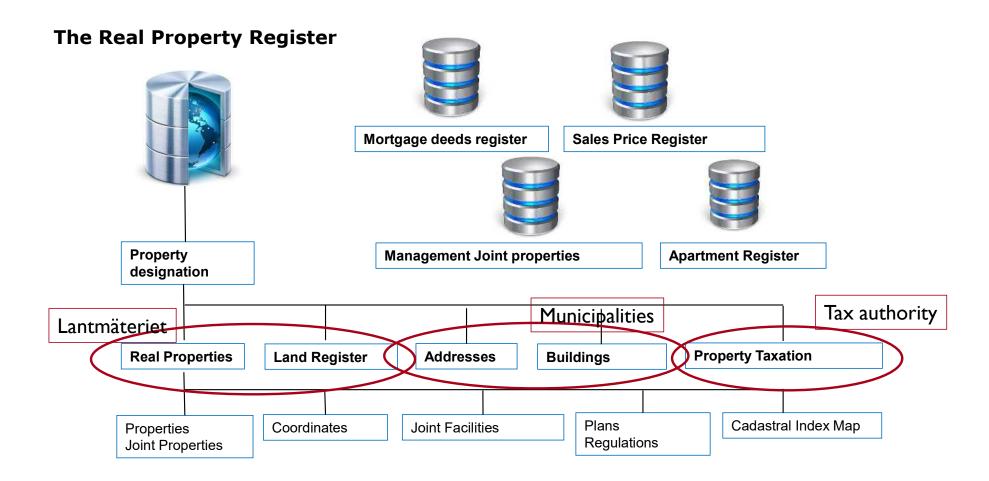


The Real Property Register - from analogue to digital

- Started in the mid 1960:s
- Several governmental investigations and committee reports
 - Legal issues
 - Economical issues
 - Technical issues
 - Integrity issues
- 1970 parliament decision
- The separate manual real property registers and land book etc were transferred to one new integrated and computerized property register
- 1976 first pilot area
- 1995 national coverage established



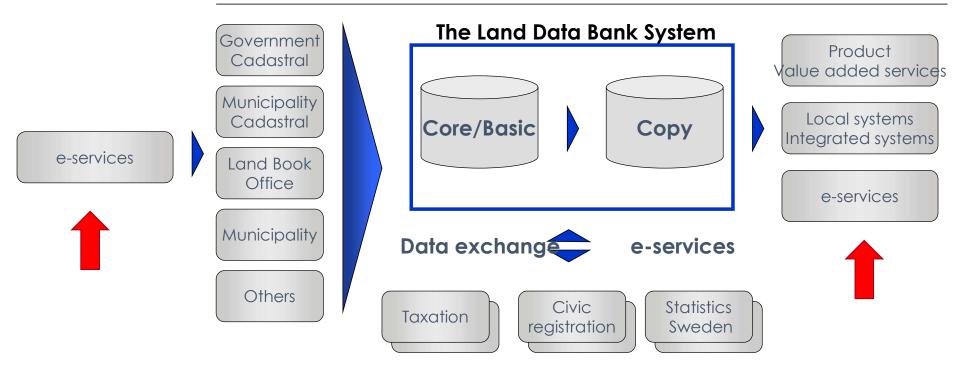
PROPERTY INFORMATION



The System Structure

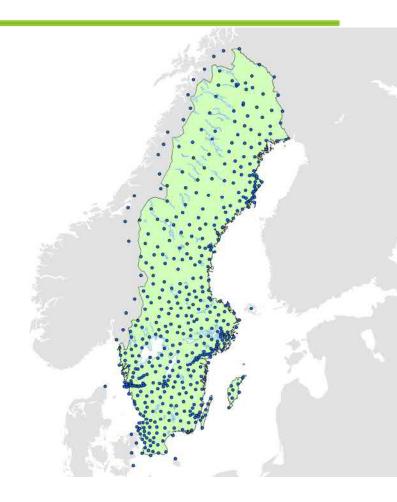


Maintenance Dissemination



SWEPOS®

- A national network of permanent reference stations and a part of the national geodetic infrastructure
- The investment is covered mainly by governmental funds
- The operation costs including future upgrades are covered by user fees



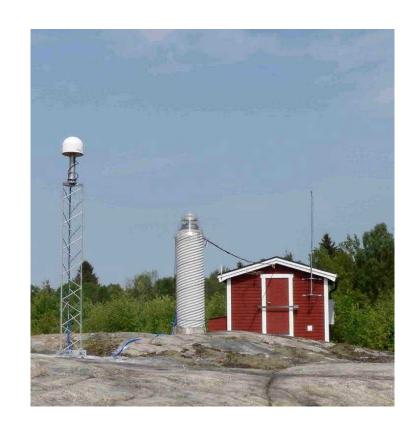
National and international partners

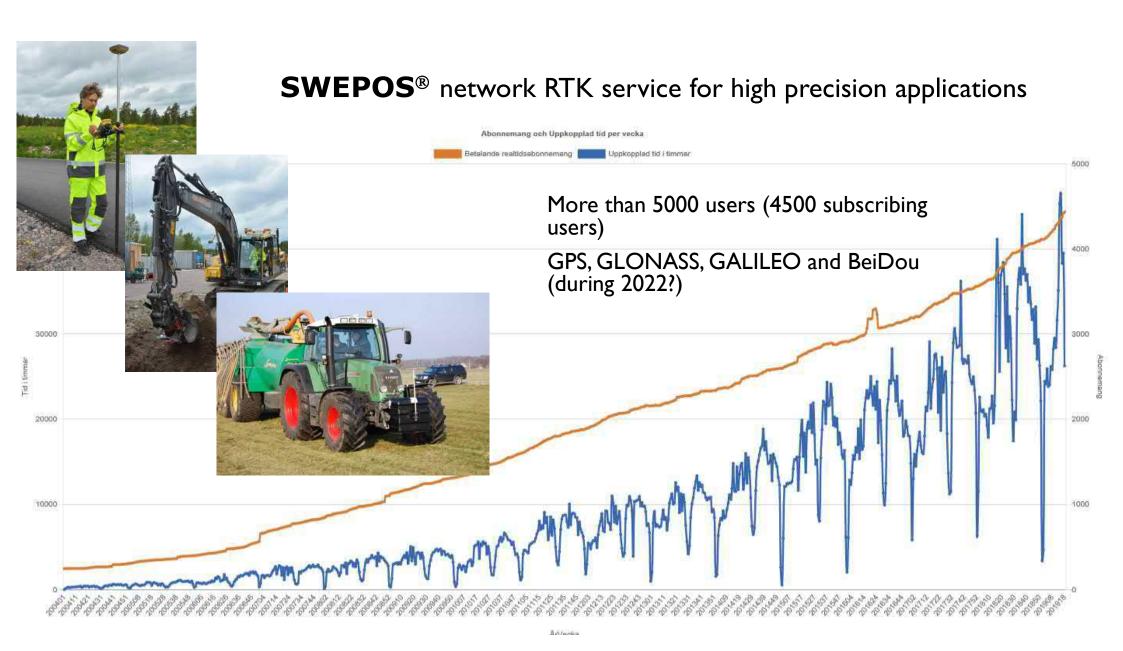
- Established in cooperation with Onsala Space Observatory/Chalmers and RISE Research Institutes of Sweden
- Partners for increased and widen use of SWEPOS data
- Cooperation with Trimble VRS now, Leica SmartNet, TopNet Live, CNH Industrial and Sapcorda to increase the use of SWEPOS data.
- One common geodetic infrastructure for GNSS, no need to finance several separate geodetic infrastructures.
- Data exchange with Norway, Finland and Denmark



A national network of permanent reference stations that provides

- Connections to the national reference frame SWEREF 99
- data for scientific studies, crustal motion, meteorology, etc.
- data to international organizations, IGS/EPN
- real-time and post-processing data for GNSS application
- 48 class A and 380 class B stations
- 24/7 service, support 06.30-20.30 weekdays. Onduty call all other time on a weekly schedule





Conclusions

Most of the work a governmental agency does in Sweden requires cooperation with other. No one can do it alone!

Governmental agencies are responsible for different parts of the national geospatial information. Lantmäteriet has taken the lead in securing an efficient use of the information to an user.

Digitalization, securing an infrastructure, standardization and more requires a government supporting the development including securing the finanzing.



If time permits - Review of the national boundary between Sweden and Norway



Introduction

- Longest in Europe. Approximately 1620 km long
- Accurately demarked 1752–1766 with 293 markers, mainly stone cairns. Today 642 markers
- 170 km of the boundary is defined in lakes or follows small rivers



National stone cairn from 1752





A clear cutting shows the boundary



Ongoing review 2020–2024. Decisions by Swedish and Norwegian governments

- National boundary commissions apportioned by the governments at Lantmäteriet and at the Norwegian Mapping Authority
- The work is divided in such a way that Norway handles the south part and Sweden the north part
- The work is controlled through common visits along the boundary and through regular meetings



Stone cairn Rr 190 before and after restoration







Painting of royal inscriptions



GNSS (network RTK) positioning







Results so far in the ongoing review

- Approximately half of markers restored
- Some stake out and clearing completed
- Challenge to pass the border during the pandemic

