Swedish National Geodata Strategy

Lantmäteriet has the assignment of the Swedish government to coordinate the development of the Swedish infrastructure for access to and exchange of geodata. This is done in consultation with other authorities in the Geodata Council, Geodatalrådet.

The goals formulated in The Swedish National Geodata Strategy 2016 – 2020 are:
1. Geodata are open
2. Geodata are usable
3. Geodata are accessible
4. Collaboration is well developed

"The new strategy is based on five societal challenges for the Swedish society where geodata is expected to contribute to solutions.

- Innovation and business growth
- Digitization of public administration
- Streamlining of the urban planning process
- Climate adaptation and environmental threats
- Defence and civil contingencies"

The Swedish National Geodata Strategy is the implementation of the EU INSPIRE directive, Infrastructure for Spatial Information in Europe.

GIS Centre – Centre for Geographical Information Systems at Lund University

Lund University’s GIS Centre was officially established in 1993 to initiate a better collaboration between departments, teachers and researchers regarding the use of geographical information technology. The Centre’s main task is to encourage and facilitate the use of GIS within the university. GIS centre can provide:

- Support service for Lund University staff.
- Self-study GIS course for staff.
- Coordination, initialisation and/or collaboration in research projects involving GIS.
- Facilitating/supporting access to geodata.
- Provide site license access to GIS software (for LU students and staff).
- Advice regarding development of GIS and geodata education.
- Aerial photos from the 1940’s for download.

For more information about geodata in Sweden:
www.geodata.se
geodatasekretariatet@lm.se

Contact and information: www.gis.lu.se
Who – From – What – How

As a student or employee at Lund University you have free and easy access to both licensed and open geodata from several Swedish data providing authorities.

An agreement, the FUK agreement, covers utilization of data for non-commercial research and education at LU both for download (GET) and as web map services (WMS) for visualisation. Data providers and examples:

- Lantmäteriet (the Swedish mapping, cadastral and land registration authority).
  Aerial photographs, maps, elevation and laser data, cadastral information.
- Sveriges geologiska undersökning, SGU (Geological Survey of Sweden).
  Geodata on bedrock, soils, ground water.
- Statistiska centralbyrán, SCB (Statistics Sweden). Population and build up area definition data.
- Sjöfartsverket (Swedish Maritime Administration).
  Nautical maps.

Accredited users are staff and students with Lucat/STILL accounts.

Geodata Extraction Tool – GET

GET is a web map service, managed by SLU, for downloading geodata.

Link to service is: [https://maps.slu.se/](https://maps.slu.se/)

Your Lund University login will let you in!

- Select your area of interest by drawing.
- Select which type of data you want.
- Agree to the terms and conditions.
- Order! – You’ll get a download link via email.

Data are provided in file formats to be used in GIS software.

- Raster(image) data: (geo)TIF format.
  Can be used as map picture in a document.
- Vector data: ESRI Shape format. Requires GIS software.
- Laser data: LAS format. Special format for laser scanned data.

You may use these data for:

- Your studies and research.
- As background in published documents
- As raster background to your own data on Internet.

Web Map Service – WMS

WMS is a standardised way of connecting to a map server over the Internet. Once connected, you will have access to seamless geo referenced map images which can be combined with other data sources, on the net or on your computer.

Most modern GIS software can connect to and display WMS services.

With WMS services you can:

- Use maps or images as background for your own data in GIS software.
- Use aerial photographs for manual interpretation to create or update your own spatial data.

For access to WMS services included in the FUK agreement, you must use a university computer or the University VPN service.

Many other data providers publish data through WMS. Best place to search and preview open services is “Geodataportalen”. In English:

[https://www.geodata.se/GeodataExplorer/index.jsp?loc=en](https://www.geodata.se/GeodataExplorer/index.jsp?loc=en) or
[https://www.geodata.se/geodataportalen/servlet/catalog_search?](https://www.geodata.se/geodataportalen/servlet/catalog_search?)

Northeast Lund. Combination of Topografisk webbkarta and Höjdmodell WMS services © Lantmäteriet.