



# GEODATA IN SWEDEN COOPERATION AND DEVELOPMENT

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TERRESTRIAL, MARITIME AND CADASTRAL DOMAINS,  
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# IMPORTANCE OF GEODATA

- In society and for the use of land and water.
- A central component for digital transformation and a sustainable society.
- Secure, fast and available; location and ownership



# MARITIME INFORMATION



Sweden has developed three marine spatial plans for its territorial waters and EEZ.

- Gulf of Bothnia
- Baltic Sea
- Skagerrak and Kattegatt



- Importance of a good knowledge and planning base.
- Importance of comprehensive planning processes which encompasses land, coastal area and the sea. Overlapping planning instruments.
- Visualization of boundaries between private and public water
- Disposition rights
- Marine Cadastre



Boundaries in water; examples.



Maritime plan and digital cadastre map

**Cooperation between authorities!**

Proposed joint initiative on coastal mapping and measuring



# MARINE CADASTRE

- Who?
- Where?
- What?

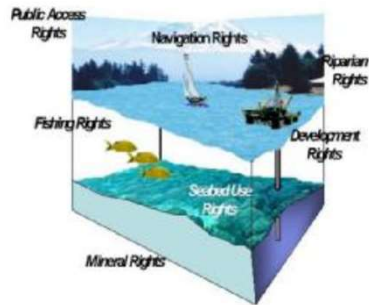


Figure 1: The Marine Parcel (after Sutherland, 2001)



- Territory of Sweden in the Real Property Register, today only includes water that is part of the cadastral division; i.e. water not part of cadastral division but part of the territory is not included in the register.

# NATIONAL STRATEGY FOR GEODATA

- The strategy is developed by Lantmäteriet in cooperation with authorities and organizations in the Geodata council.
- Members of the council are appointed by the Government.
- A focus for the strategy is its contribution to the Swedish implementation of Agenda 2030.

## Participating authorities





# GEODATA FOR A SUSTAINABLE SOCIETY

- Geodata is part of our everyday life, e.g. map services, apps, decision support systems.
- Digital geodata is a necessary cornerstone.
- The need for information about our surroundings and our physical environment runs like a common thread through almost all of our challenges
- These include the supply of water and energy, transport and road systems, safety and risk prevention, climate adaptation and the development of land, city, coast and sea.



# CHALLENGES FOR SOCIETY



Sustainable city development



Smart rural areas



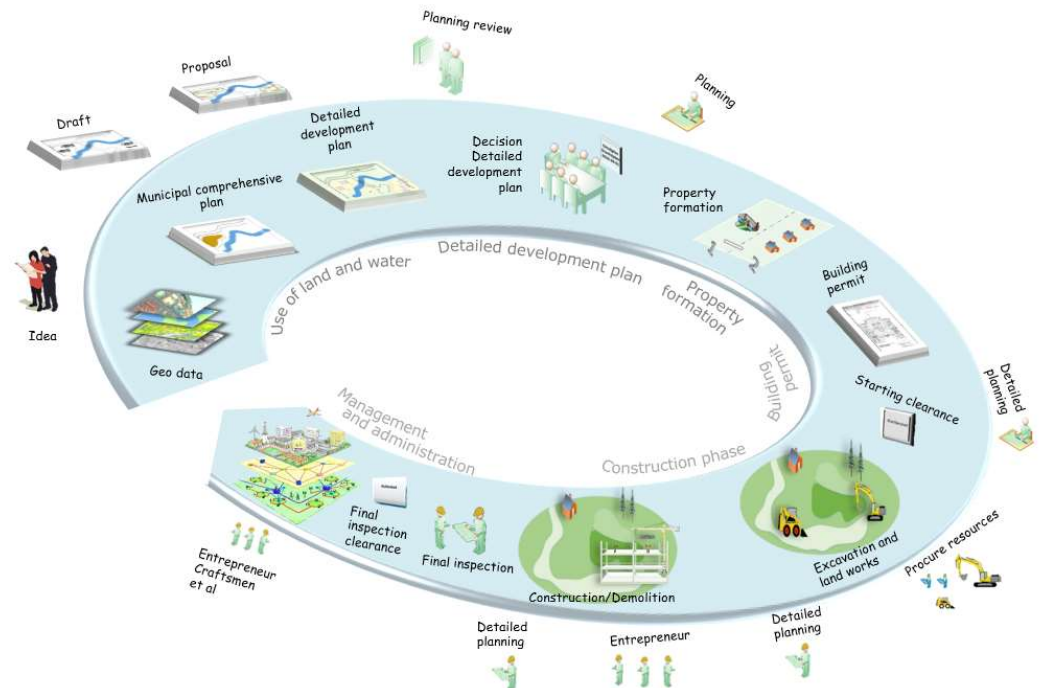
Climate adaptation



A secure and robust society

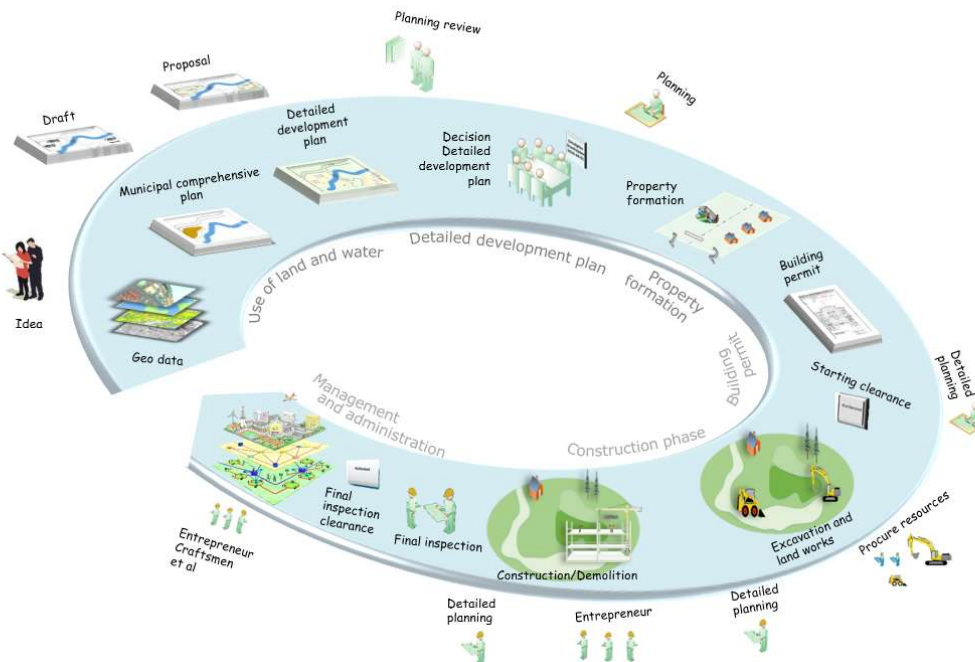
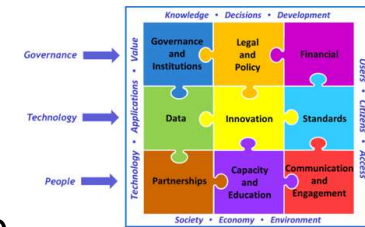
# SMARTER PLANNING AND BUILDING PROCESS

- Lantmäteriet leads the development in co-operation with others.
- Aims to create a simpler, more open and more efficient planning and building process for the benefit of citizens, companies and other actors.
- A prerequisite is accessibility to nationally uniform and open information for all actors in the process.





# SMARTER PLANNING AND BUILDING PROCESS – SOME FOCUS POINTS



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1. Co-operation – the first choice
2. Work actively with legislation
3. Open up
4. Create transparency to internal processes
5. Reuse and learn from others
6. Ensure that information and data can be transferred
7. Focus on the user
8. Make digital services available and inclusive
9. Make them secure
10. Find the right balance as to personnel integrity
11. Use language understood by the users
12. Keep the administration simple
13. Keep an overall view of information management

# NATIONAL PLATFORM FOR GEODATA – ESTABLISHING A DIGITAL INFRASTRUCTURE

- In the National Geodata Platform, consumers of geodata will be given access to data sets from a variety of geodata producers. The goal is a smarter planning and building process, where everyone has access to nationally standardized digital information.
- The first set of data to be made available in 2021 are detailed plans with Sweden's municipalities as producers. From January 1st, 2022, there are legal requirements that all new detailed plans should be made available in digital form by municipalities.
- A national specification for how they should be designed digitally has been developed.
- The second theme that will be made available is extended building object.
- Discussions are on-going as to the themes that will come next.



# EUROPEAN UNION

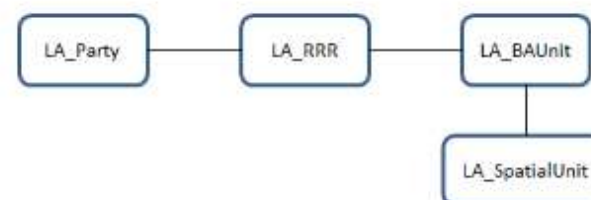
- Lantmäteriet co-ordinates the national implementation of Inspire and is Sweden's contact point to the European Commission on issues relating to INSPIRE
- Inspire – search, viewing and downloading services, 34 themes
- PSI-Directive (public sector information)
- Single Digital Gateway
- Land Register Interconnection



# LADM

- The Land Administration Domain Model is a conceptual model for land use and land ownership.
- Provides a basis for the development and refinement of efficient and effective land administration systems, based on a Model Driven Architecture.

- Lantmäteriet participates, follows, take part in current development.
- At present, e.g. restructuring of LADM document in different parts, e.g. part 3 marine, ISO 19152-3 Geographic information Part 3: Marine georegulation ( ISO/TC 211 N 5714)



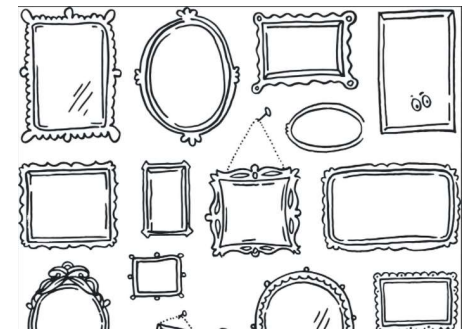
Ett förenklat exempel är:





# A NATIONAL FRAMEWORK FOR BASIC DATA

- In order to clarify responsibilities; and increase standardization of basic data, it is proposed that a national framework for basic data is established. A national framework for basic data creates conditions for increased benefits for society.
- In the proposed national framework, it is suggested that basic data is regulated in two levels:
  - Management level - principles and guidelines at national level, DIGG
  - Responsibilities for domain-wide principles and guidelines for so-called base data domains
    - Companies – The Swedish Companies Registration Office
    - Persons - The Swedish Tax Agency
    - Geodata (property- and geographical information) - Lantmäteriet



# TACK! VI FINNS PÅ...

WEBBPLATS

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