



# BUILDING A DIGITAL INFRASTRUCTURE FOR LOCAL DATA ON A NATIONAL LEVEL

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23 | 201

LARS HÄGG

# THE STARTING POINT

- New Swedish digital strategy
- Agency for digital government
- A governmental assignment “digital first” with an aim to digitalize the planning and building processes 2018
- We made a stakeholder analyze with around 300 persons from government, municipality and private enterprises

# THE RESULT

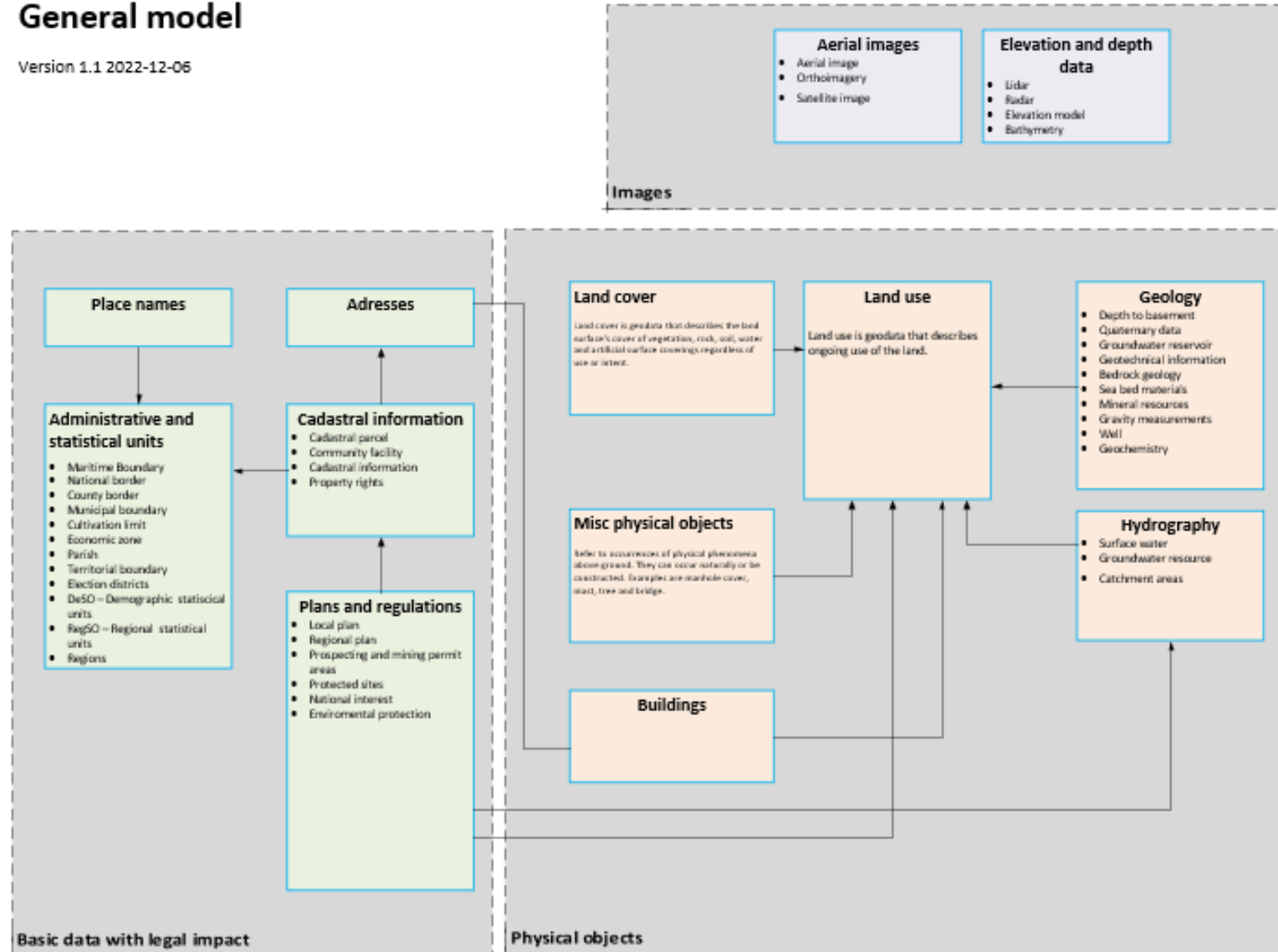
- A lack of standards
- Finding information is hard and expensive
- No central point of access
- Wide range of fragmented information and generations of legislations
- Data is in many cases not machine readable
- Missing legal support
- Minor municipality's ability to digitalize
- Unclear responsibilities

# National basic data domain cadastral and geographic information

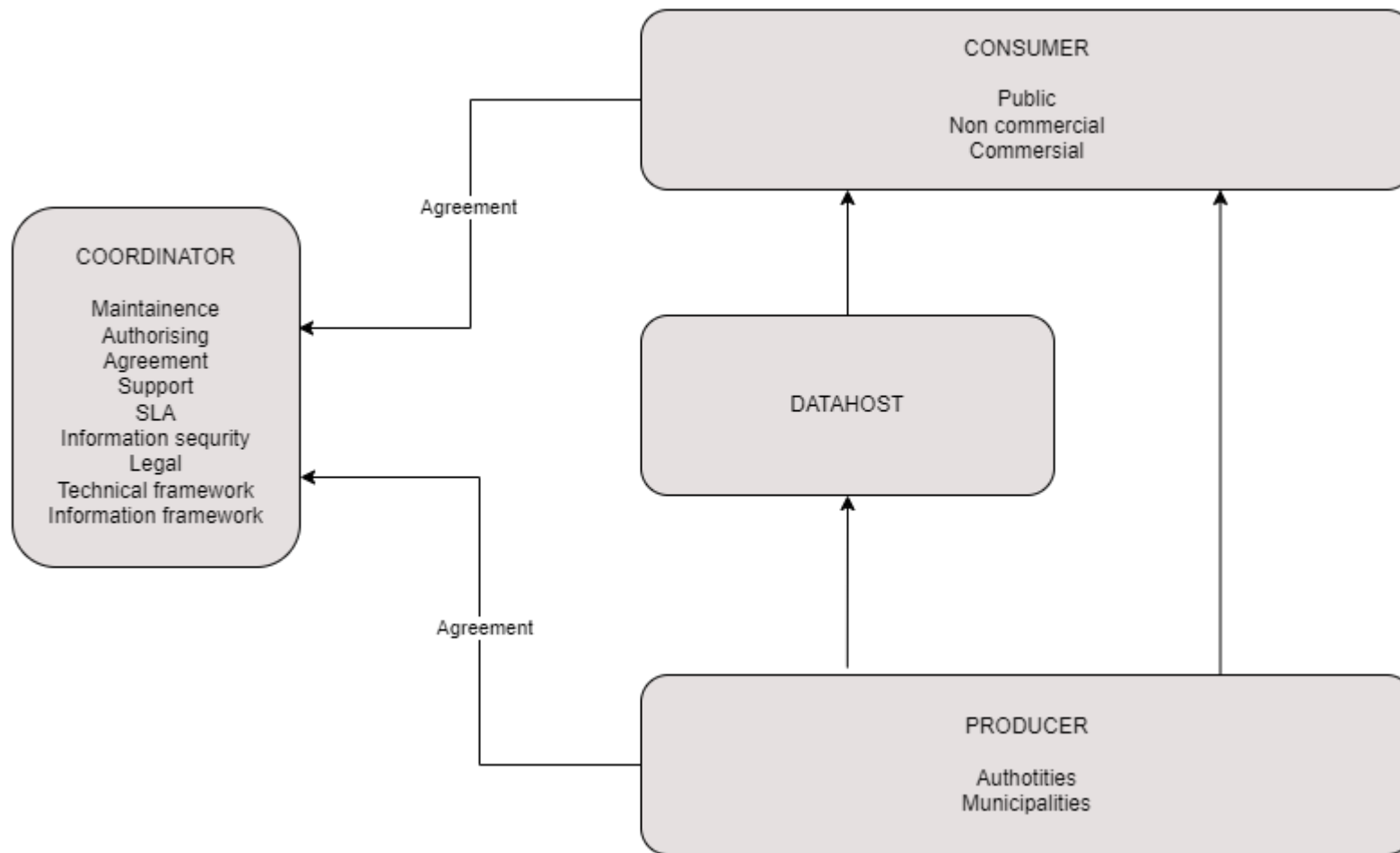
## (geodata).

### General model

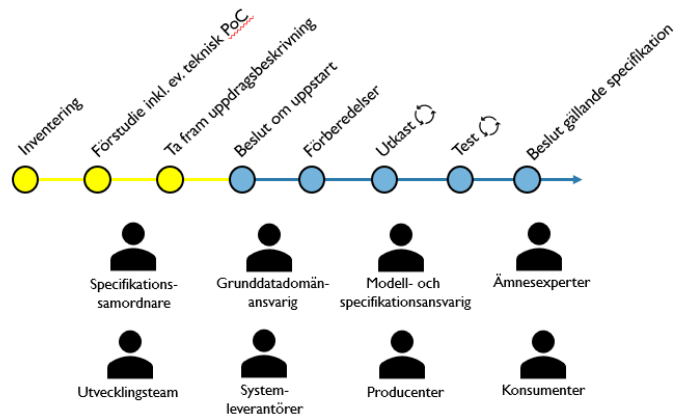
Version 1.1 2022-12-06



# NATIONAL PLATFORM



## PROCESS AND ROLES



## NATIONAL SPECIFIKATION



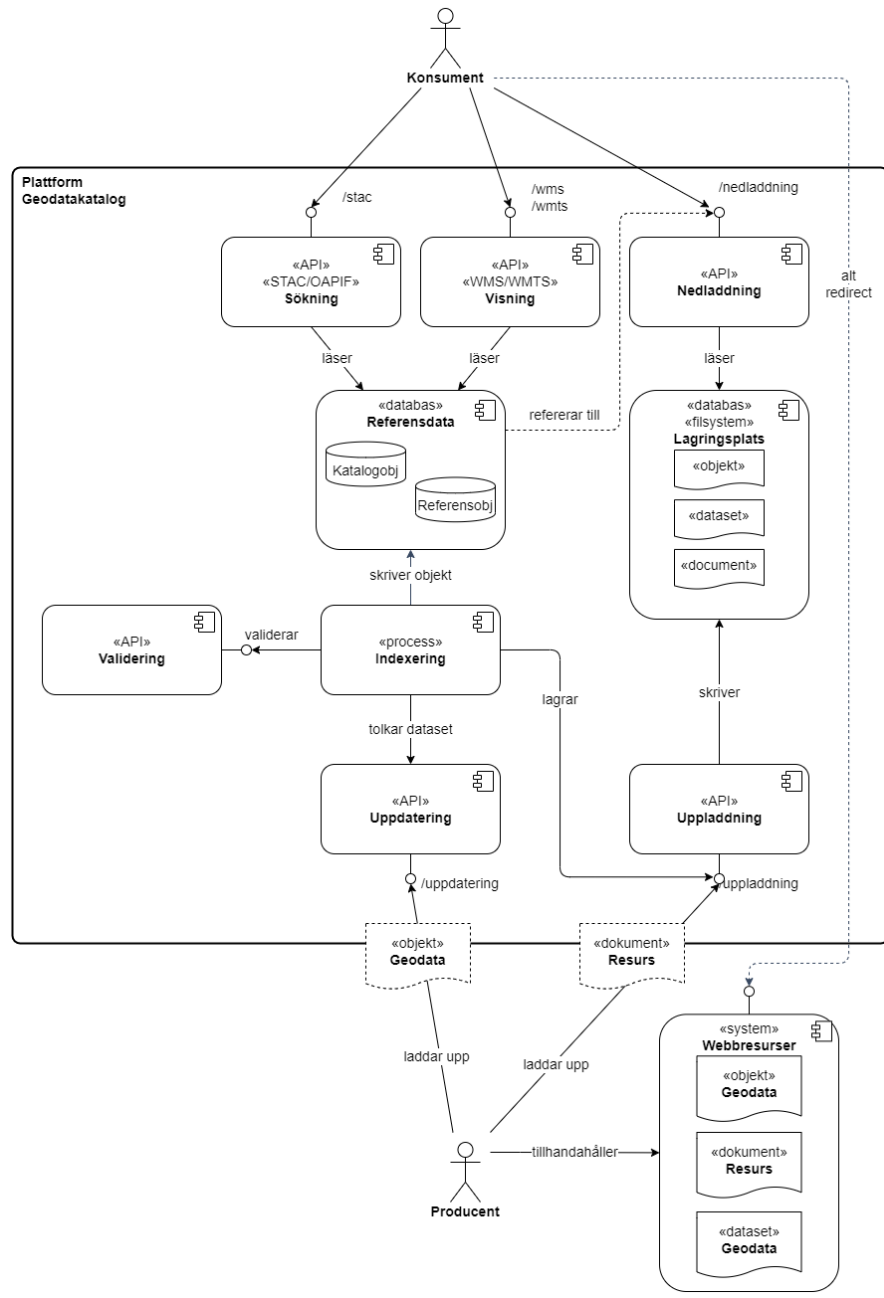
## Nationellt ramverk för utbyte av geodata

För att uppnå ett enhetlig och effektivt informationsutbyte tas ett Nationellt ramverk för utbyte av geodata fram. Alla aktörer bör läsa och ha kännedom om detta ramverk, men den primära målgruppen är producenter och systemleverantörer.

### Innehåll på sidan

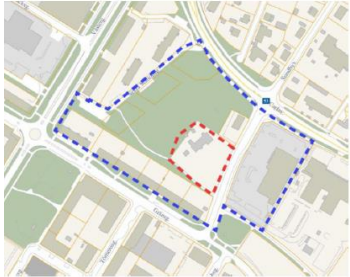
- » [Del A: Introduktion och grundläggande principer](#)
- » [Del B: Resursmodeller](#)
- » [Del C: Modellering och specifikationer](#)
- » [Del D: Teknisk realisering](#)
- » [Del E: Tillämpning av standarder](#)

# GEODATA CATALOG

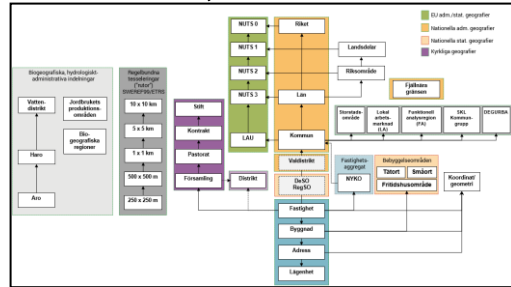


# BASEMAP

47 objects

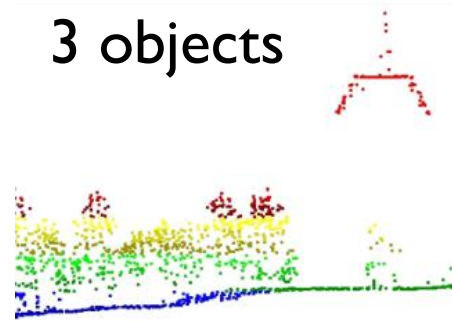


Administrative and statistical units  
~80 objects



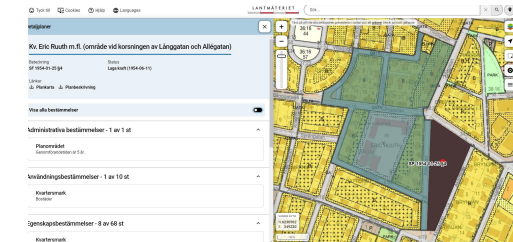
# Elevation

3 objects



# Planning

5 objects



# Land cover

<20 objects

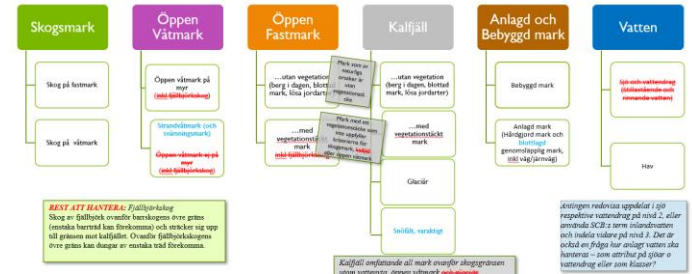
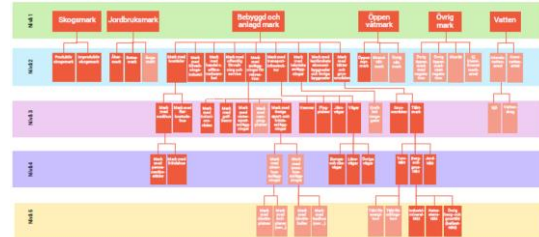
# Building

1 object



# Land use

~80 objects





## WHAT WAS THE INTENTION OF THE SWEDISH NATIONAL PLATFORM

- Help speeding up the planning and building processes
- Create national standards not only from a cadastral view but from a national need of AI-ready information in 3D
- Enable smaller municipalities to publish data on a national level
- Build producer storage for national data, not a metadata portal

# INTENTIONS FOR THE SYSTEM

- Automatic in the way of machine-machine communication between producer and consumer thru API
- **API:s and format shall go for Open Standards and de facto standards as far as possible**
- Also have an eye on the rapid development of open standards and to aim forward
- Handle different types of data in a standardized way ( ex. search, find and down load different types of data, orthophotos, laser data, vector data, documents)
- Create a single point of contact for consumer for agreement and support

# THE START – LOCAL PLANS

[Tyck till](#)
[Cookies](#)
[Hjälp](#)
[Languages](#)

LANTMÄTERIET

Sök...

Detailplaner

**Kv. Eric Ruuth m.fl. (område vid korsningen av Långgatan och Allégatan)**

Beteckning

SF 1954-01-25 §4

Status

Laga kraft (1954-06-11)

Länkar

[Plankarta](#)
[Planbeskrivning](#)

Visa alla bestämmelser

Administrativa bestämmelser - 1 av 1 st

Planområdet

Genomförandetiden är 5 år.

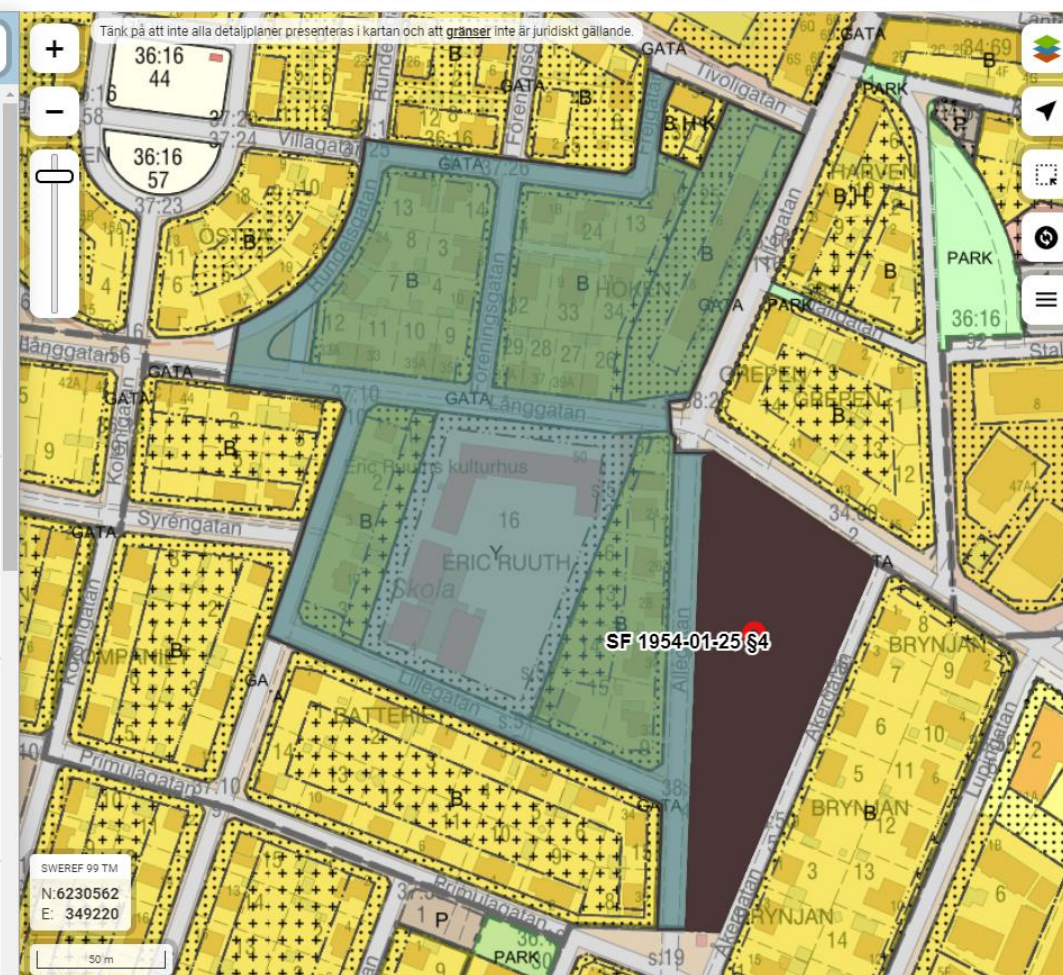
Användningsbestämmelser - 1 av 10 st

Kvartersmark

Bostäder

Egenskapsbestämmelser - 8 av 68 st

Kvartersmark



# LESSONS LEARNED

- Specifications take time
- The framework is essential
- Secure the resources before starting
- Cross functional teams (legal, technical, operational staff and end user)
- Learning by doing
- Cooperation

# WHAT'S GOING ON

- Administrative and statistical units (6 themes)
- Buildings
- Regional plans
- Infrastructural plans
- Regulations (3 themes)
- Land cover/Land use
- Geological surveys
- Geodetic surveys

# THANKS FOR LISTENING

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Swedish NMCA

[www.lantmateriet.se/en](http://www.lantmateriet.se/en)

National plattform

[www.lantmateriet.se/en/national-geodata-platform/](http://www.lantmateriet.se/en/national-geodata-platform/)