

***The Swedish Real Property Register –  
information quality and challenges ahead as to a  
smarter planning and building process***

**2018-11-21**

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# Sweden

# Challenges ahead!

Population increase

**Demands from Government**  
Increase construction and simplify the community building process



**Changed society**  
Fast, digitally and accurate information

**Real property register**  
Information quality in relation to the register

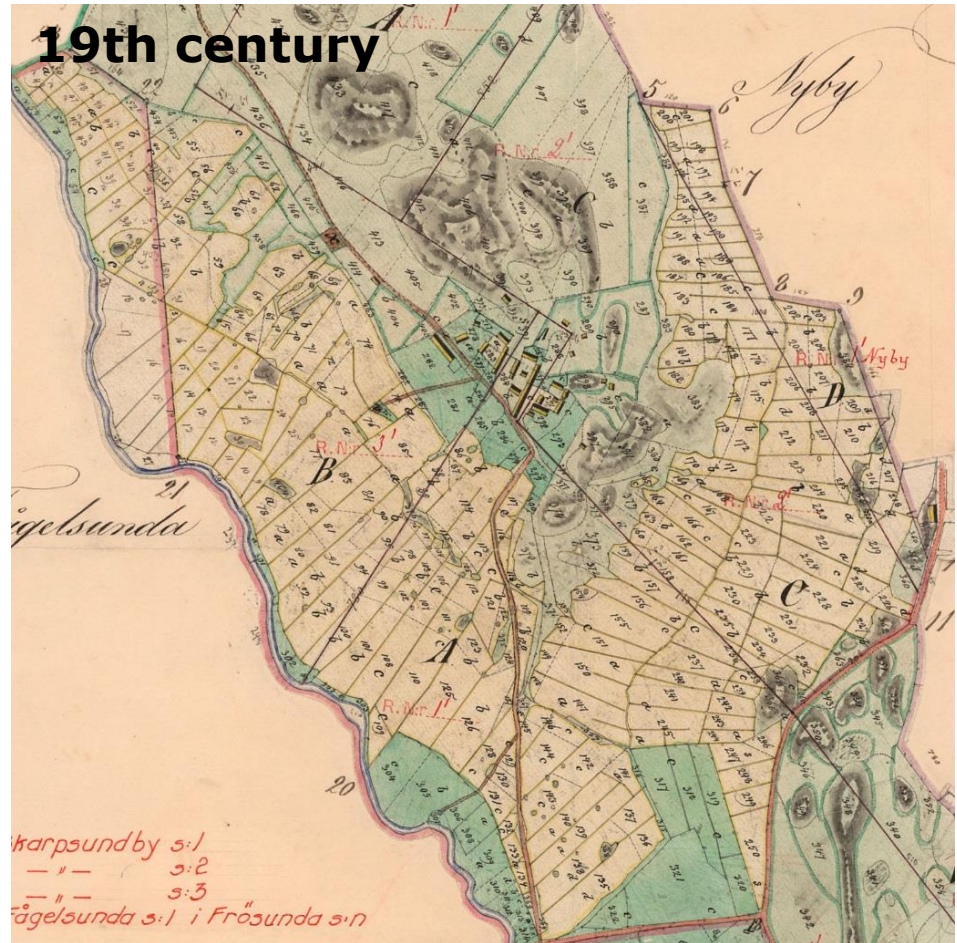
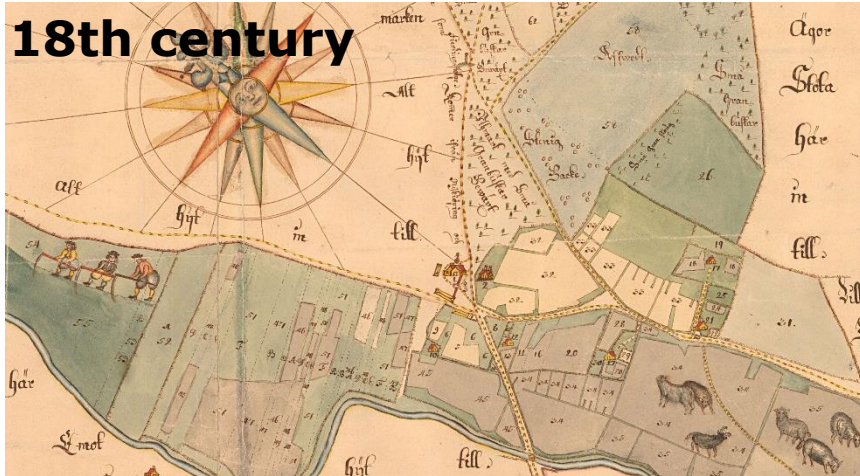


**Once upon a time...**



1628, Systematic survey of Sweden

Once upon a time...



several land reforms over the centuries

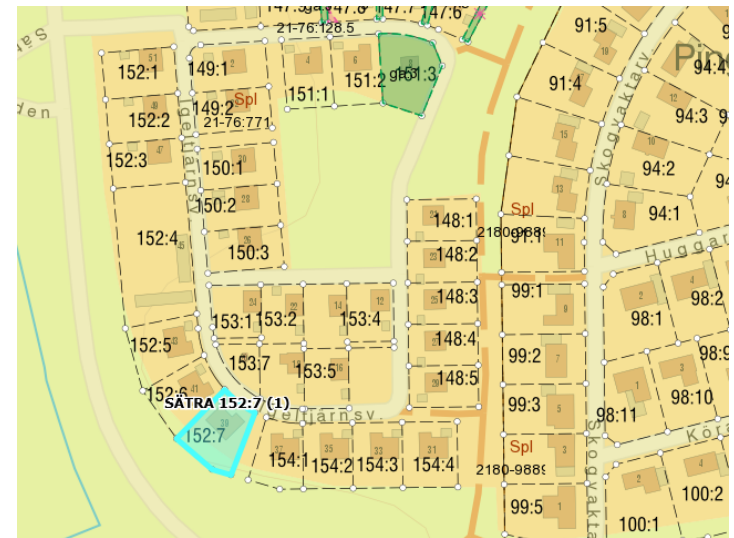
## Once upon a time...

**1995** computerized textual system for registration of all real property information was completed.

**1992** work to create a National digital map data base started (1:10 000)

The screenshot shows the Lantmäteriet website interface. The search bar contains "Gävle Sättra 152:7". The results show property details:

- Beteckning/Adress/Rättighet/Plan/Förening/Organisationsnummer:** Gävle Sättra 152:7
- Index:** Fastighet
- Adress:** Igeljämavägen 39, 806 36 Gävle
- Areal:** Totalt 831 kvm, Därav landareal 831 kvm, Därav vattenareal
- Läge, karta:** Område 1, N, E (SVERIGET 99 134) 6729434.1 614382.8 ±, N, E (SVERIGET 99 15 30) 6730450.0 182475.8
- Lagfart:** Ägare 700820-8964 Nordsejll, Ellen Susanne Adina Lise-Lott, Igeljämavägen 39, 806 36 Gävle. Köp: 2011-11-21, Köpeskilling: 247.000 SEK Gäller hela fastigheten. Överlåten från akt: 22/84



# The result of the long-term work with the information has given us a:

- complete register and map which we are really proud over!



- but
- The collection was made in many different ways with different sources therefore the registry quality needs to be improved

# The demands have changed from society

Changed society

<b>Before</b>	<b>Nowadays</b>
Manual work, mostly paper based	Digital work, applications, machine-machine interface
No big need for speed	Time is money! Need for speed
General information in the register, ex. Overview of the real property information	Accurate information
Information almost only used for land transfer and land registration	Information is used by the whole society
Authorities and municipalities were contacted for the work	Completely digital management (applications documents to descisions)




# Demands from the government

Increase construction and simplify the planning and building process by smart building environment







Digitalt först i förvaltningens verksamhet och kontakter med privatpersoner och företag

Enklare

Öppnare

Effektivare

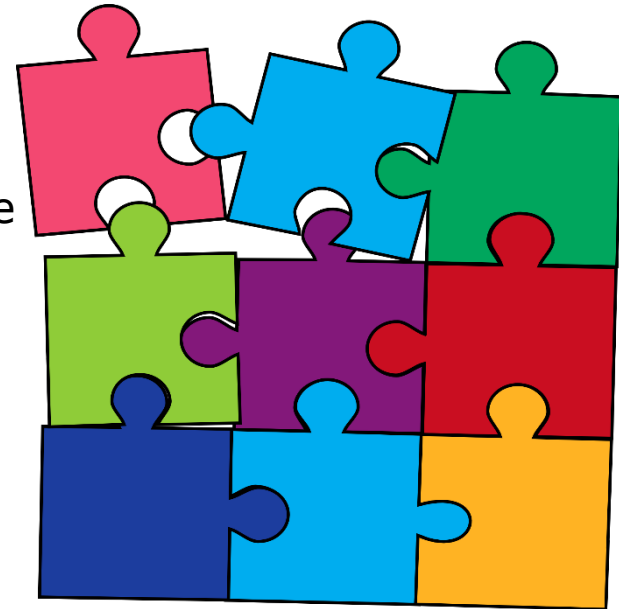
Regeringskansliet

**Digital first in the administration's business and contacts with private individuals and companies**

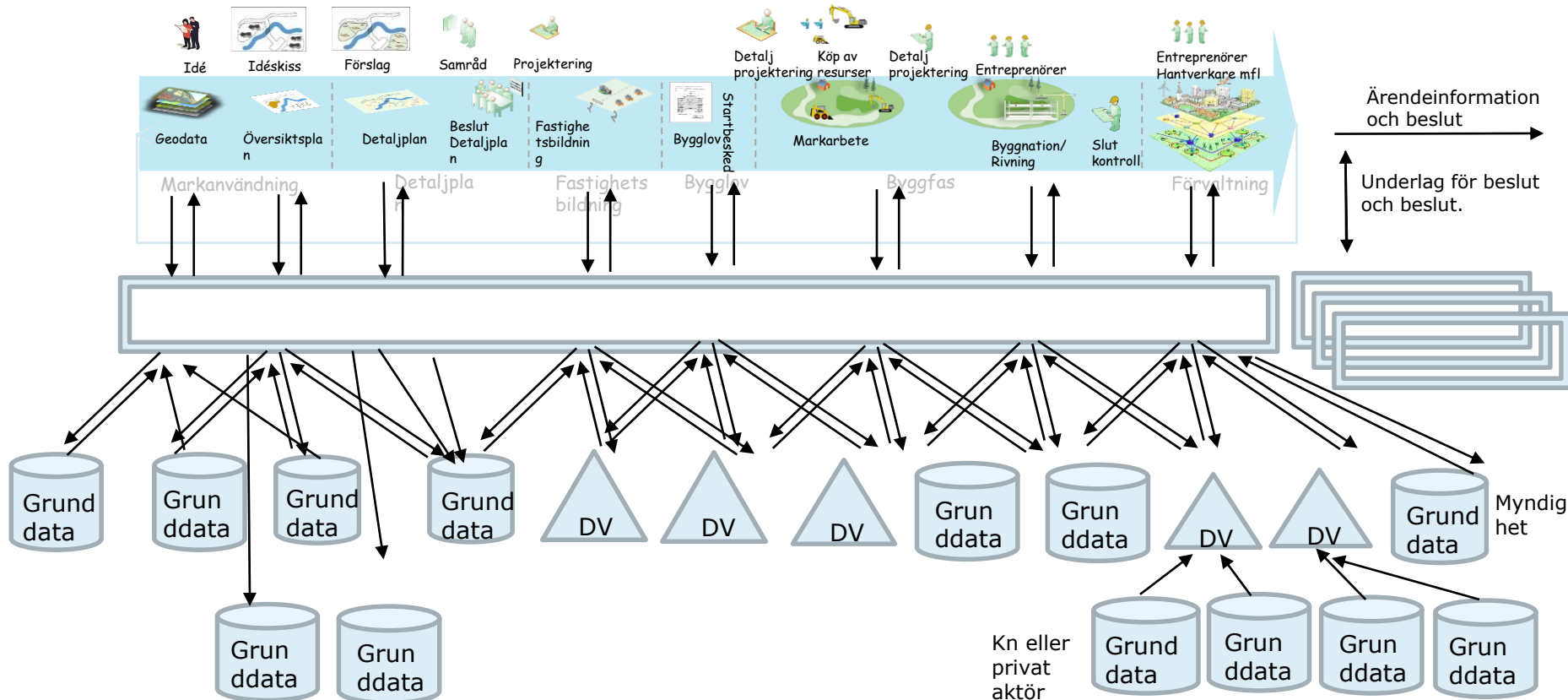
- Easier
- More open
- More efficient

## The principles of digitization

- Digital meetings start with the citizen
- Digital first
- Download the information from the source
- Digital once
- Digital = original
- Open
- Available



# Concept for distribution of data via national services (Geodata and other base data)



## User needs and community benefits

## Openness and security

## Standardization of basic data

## National cooperation in geodata collection

## National platform for Geodata

## Competence

### Användarbehov och samhällsnytta (Pär Heden)

**1a** Metoder för analys av användarbehov och samhällsnytta

Johanna Fröjdenlund  
LM

**1b** Användarbehov inom samhällsbyggnadsprocessen

Emilia Olofsson, Bov

**1c** Användarbehov inom klimatanpassning – Kust och strand

Patrik Wiberg, SjöV

**1d** Användarbehov inom de areala näringsnas ekosystem

Håkan Olsson, SLU

### Öppenhet och säkerhet (Pär Heden)

**2a** Öppna respektive avgiftsfria geodata

Anna Svedlund, LM

**2b** Informationssäkerhet och totalförsvär

Håkan Svanberg, LM

**2c** Redundans i geodataförsörjningen

Carl Erik Zetterlund  
LM

### Standardisering av grunddata (Malin Klintborg)

**3a** Riktlinjer och stöd för specifikationsarbete\*

Magnus Konnskog LM

**3b** Specifikationsarbete och implementering av specifikationer

Magnus Konnskog LM

**3c** Geodata i GD och relationen geodata-DIM

Magnus Konnskog LM

**3d** Bevarande av geodata

Karl Olsson, SGU

### Nationell samverkan i geodатаinsamling (Tobias Lindholm)

**4a** Innehåll & samverkanskoncept

Ulf Eriksson, LM

**4b** Nationella datautvalsk

Karin Bergström, LM

**4c** Teknik/arkitektur för samordnad lagring och förvaltning

Lars Hägg, LM

**4d** Visualisering av planer och utfall

Emma Söderholm, LM

### Nationell plattform för geodataaccess (Pär heden)

**5a** Koncept - Funktion & förmågor

Jenny Carlstedt, LM

**5b** Juridiska styrmedel och regleringar

Malgorzata Drewniak,  
LM

**5c** Teknik och arkitektur för den nationella plattformen

Lars Hägg, LM

### Kompetens (Malin Klintborg)

**6a** Utbildningsplaner och seminarier

Anders Ryden, LM

**6b** 10+10 WS shb chefer

Marcus Ygeby, LM

**6c** Juridiska vägledning

Linda Holmström, LM

**6d** Handbok digitala detaljplaner

SBE, Örebro

# Challenges

- Cadastral index map and detailed planning, property boundaries.
- Standard for detailed planning
- Digitalization of analogue or semi analogue material in municipalities

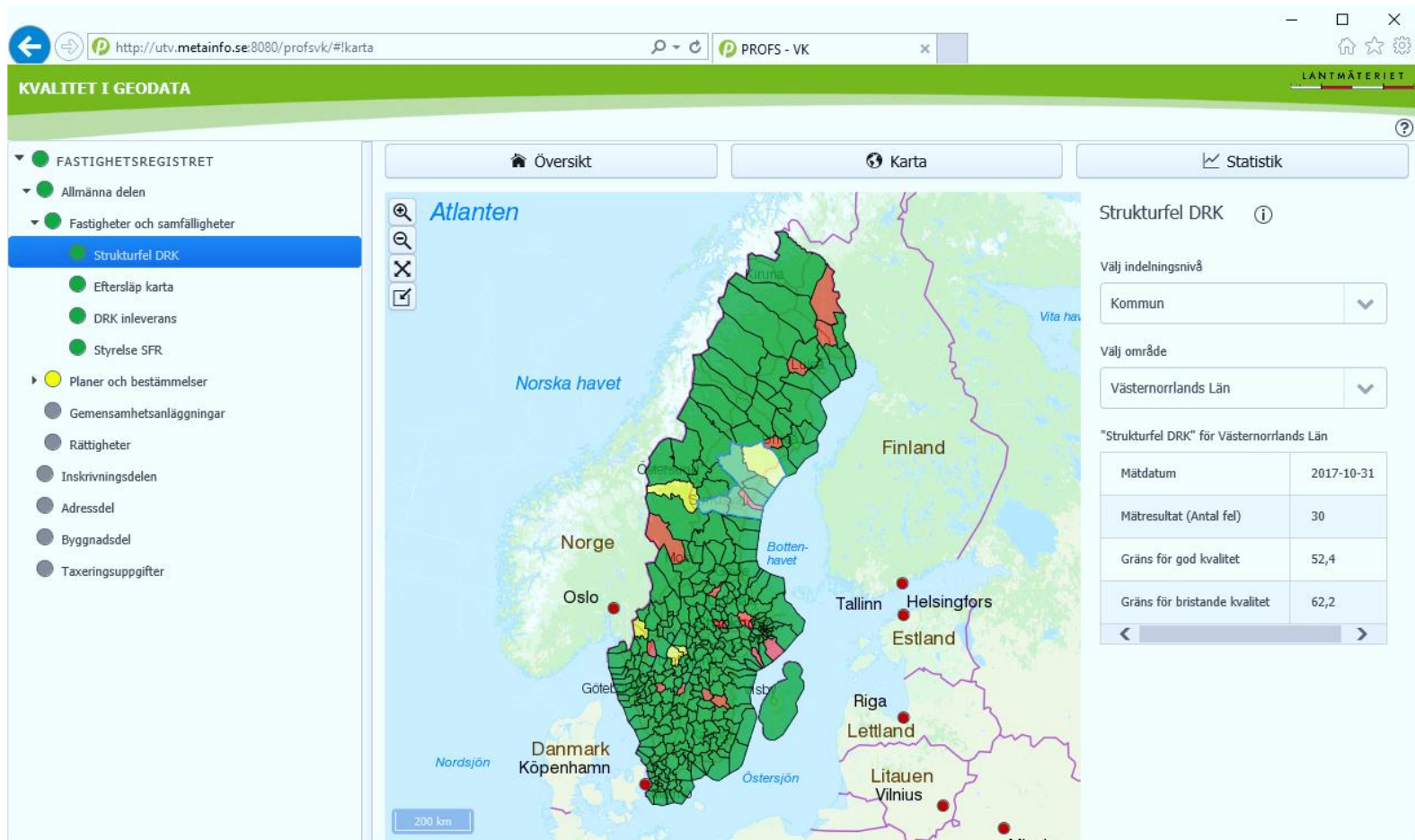
# Information quality of the Real Property Register

- Strategic goals and activities for improving the quality of the register until year 2025.
- Continuous work with the information quality according to annual plans, proactive work
- Continuous work with the information quality based on input from the users, measurements of the quality etc.
- Cooperation with other organizations

## Identified Yearly Benefits, Million Euro/Year (Cadastral services)

• Internal Benefits	Direct	Indirect	Difficult to estimate
- Processing/ handling	1,3		
- Delivery	1,6		
• External benefits			
- Lower costs for cadastral procedures	1,8		
- More secure transactions of real properties	2,8		
- Planning and building process for roads and railroads	1,7		
- Handling of building permits	0,4		
- Mortgaging as to new-built areas	2,8		
- Forestry		1,4	
- Geographic Information Technology		1,2	
- Increased democracy/ benefits for society			16,0
- Property related e-services			1,9

# Visualization (examples)





# Visualization (examples)



**Thank you very much!**

**Questions?**

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