

FIG

FIG WORKING WEEK 2017

Helsinki Finland

29 May - 2 June 2017

Presented at the FIG Working Week 2017,
May 29 - June 2, 2017 in Helsinki, Finland



Surveying the world of tomorrow -
From digitalisation to augmented reality

Organised by



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From digitalisation to augmented reality

8634 - Rising Expectations

Public Institutions Facing a New Reality in a Digital Era

Daniel Janonius Löwgren (Sweden)



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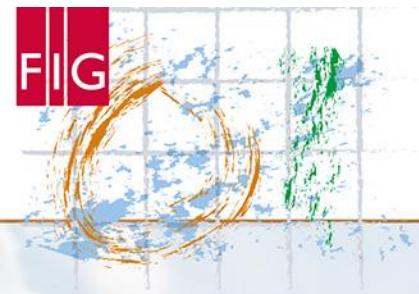


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Implications of technological development in the public sector

- ICTs bring new possibilities to improve public services.
- ICTs bring new tools for citizens to exercise influence on public institutions

⇒ Rising expectations compel public institutions to change.

⇒ This poses a great challenge for many institutions.

⇒ If institutions succeed, many positive effects can occur:

improved service, citizen empowerment, cost reductions...



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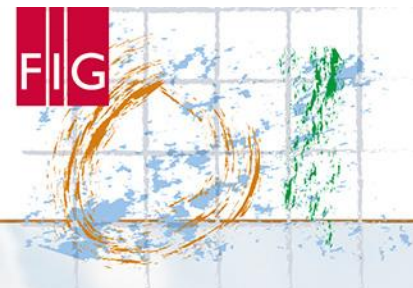


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Examples: challenges and implications

Two examples from the land management and surveying sector of Sweden.

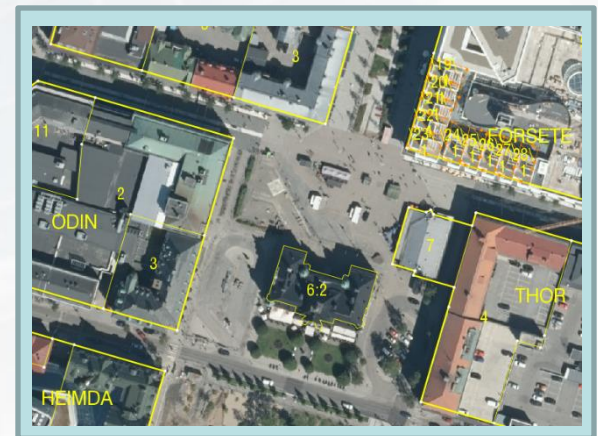
1. Public diary pages (*transparency, influence*)
2. Availability of geospatial data (*expectations, data quality*)



LANTMÄTERIET

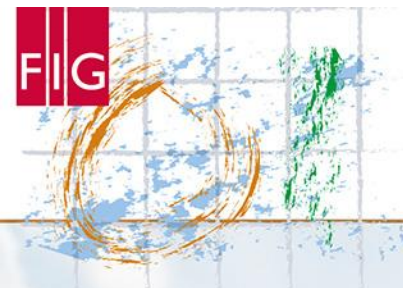
Mina fastighetsärenden

| | Översikt | Handlingar |
|----------------------------------|--|------------|
| Ärende AC16375 | | |
| Lantmätarens dagboksanteckningar | | |
| Datum | Anteckning | |
| 2016-07-07 | Ansökan inkommen. (Infört i dagboken 2016-07-08) | |
| 2016-07-07 | Överenskommelse om sammanläggning och klyvning | |
| 2016-07-07 | Följebrev till överenskommelse | |
| 2016-07-08 | Bekräftelse skickad till Peggy Stenmark och Somdee Stenmark | |
| 2016-09-12 | Behörighetskontroll, ok. | |
| 2016-09-12 | Samtliga fastigheter är fria från penningteckningar. | |
| 2016-09-23 | Beställt avtalssevitut | |
| 2017-03-09 | Ärendansvarig utsedd, förrättningslantmätare (fm) Mattias Vilhelmsson | |
| 2017-03-12 | Telefonkontakt med Tomax Lundmark som ska företräda sakägarna vid förretningen | |

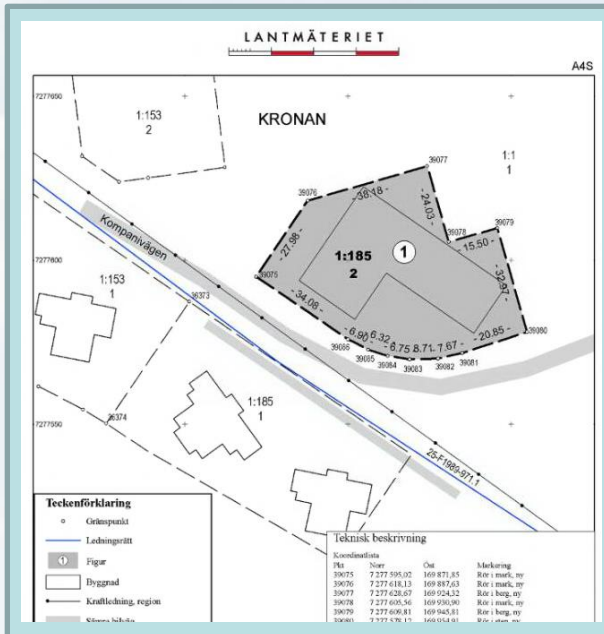


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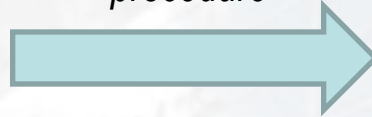




Example 1: Public diary pages (*transparency, influence*)



Property units are created and transformed through a *property formation procedure*



The procedure is performed by a public cadastral authority



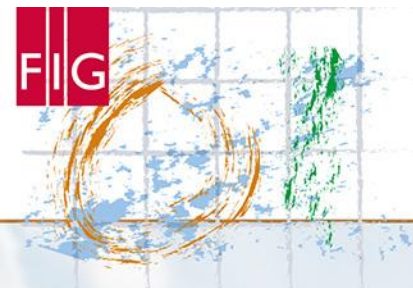


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Example 1: Public diary pages (*transparency, influence*)

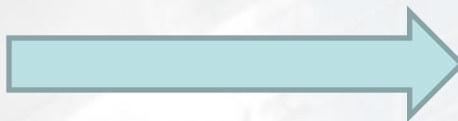
FASTIGHETSBLDGNSMYNDIGHETEN DAGBOKSLAD

ALPEN 3, TOMTEBO 2 i 1, VASTERTING 7154, 7162, 7164, 7168 Utsöd

2480 Utsöd Utsöd kommun TK, Mark & Exploatering 901 04 UREA

| Aktlösa | Datum | Följden Inget eller inkomman handling? | Anmärkingar |
|---------|----------|--|-------------|
| KA | | <input type="checkbox"/> Upprättad <input type="checkbox"/> Inne upprättad | A5 |
| BE | | <input checked="" type="checkbox"/> Fastighetsrättslig beskrivning i särskild aktlösa (BE) <input type="checkbox"/> Fastighetsrättslig beskrivning på förrättningskanten (KA) <input type="checkbox"/> Teknisk beskrivning i särskild aktlösa (BE) <input checked="" type="checkbox"/> Teknisk beskrivning på förrättningskanten (KA) | |
| A | 97-10-15 | Ansökan | |
| | 980330 | Underrättelse om avslutande | |
| PR | 980326 | Protokoll. Förrättningen avslutas | |

Legislation has not changed, the diary page is mandatory in the property formation procedure



But transparency has increased, when property owners can follow the actions taken in real-time.

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Mina fastighetsärenden

Översikt Handlingar

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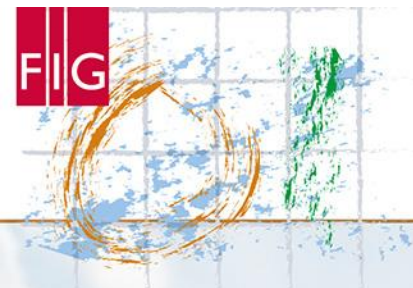


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= The service @lantmateriet (the Swedish mapping, cadastral and land registration authority) provides which give online access to documents / diary is great. When will we see the equivalent of @Domstolsverket (the Swedish courts)?
[my translation]



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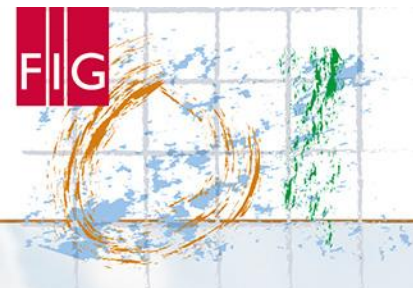


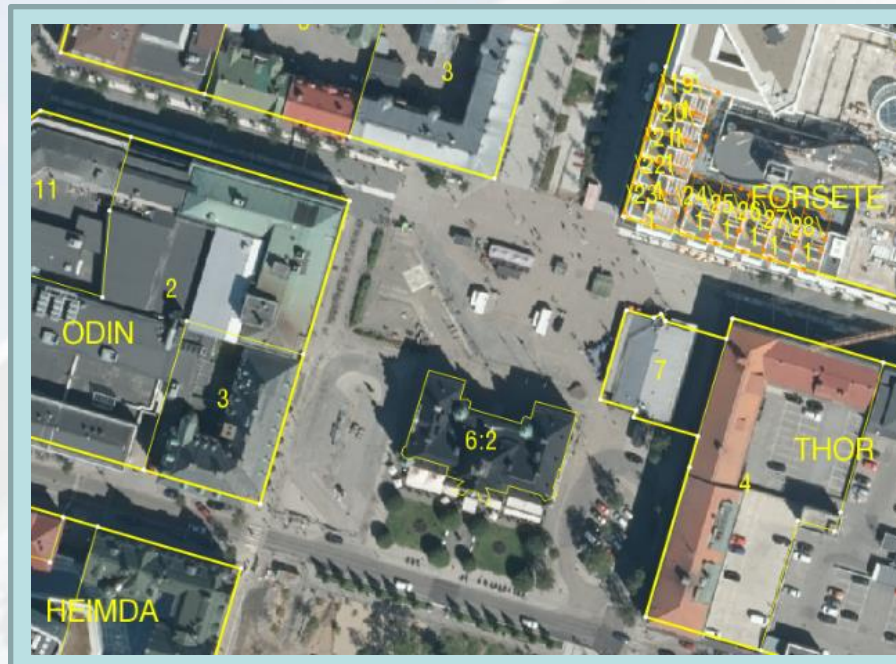
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Example 2: Availability of geospatial data (expectations, quality)



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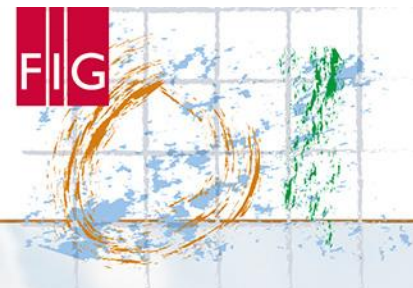


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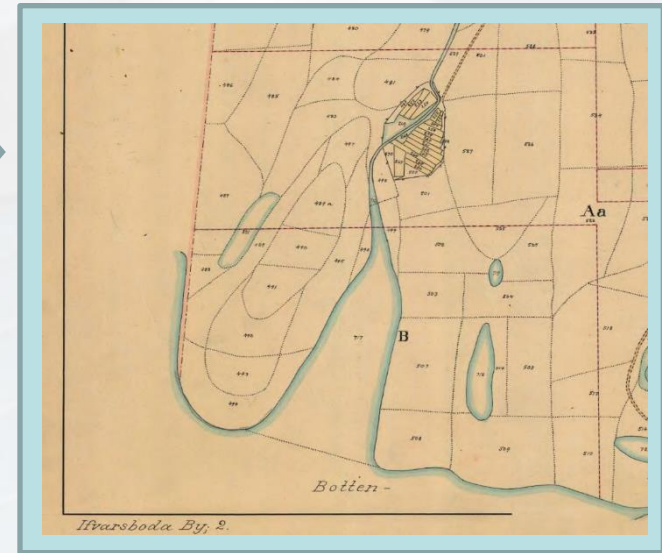
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From digitalisation to augmented reality

The swedish cadastre – a rough timeline

| | |
|--------------|--|
| ~ 1850 -1900 | A period of great land reform (<i>laga skifte</i>) |
| ~ 1960 | Economic maps were completed |
| ~ 2000 | Economic maps were digitalized |
| ~ 2010 | The digital cadastre maps became widely available |



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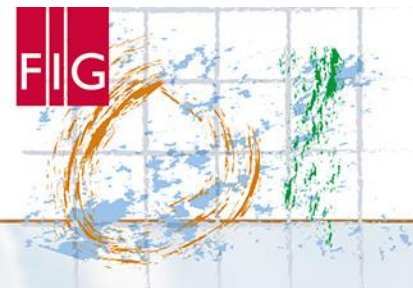


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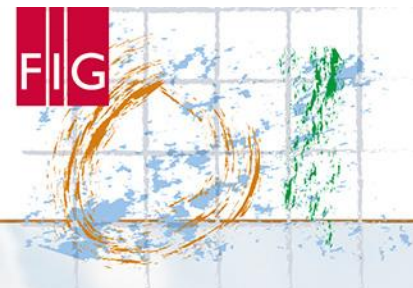


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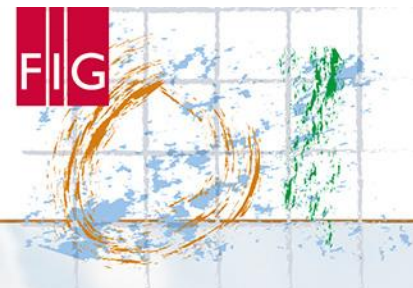
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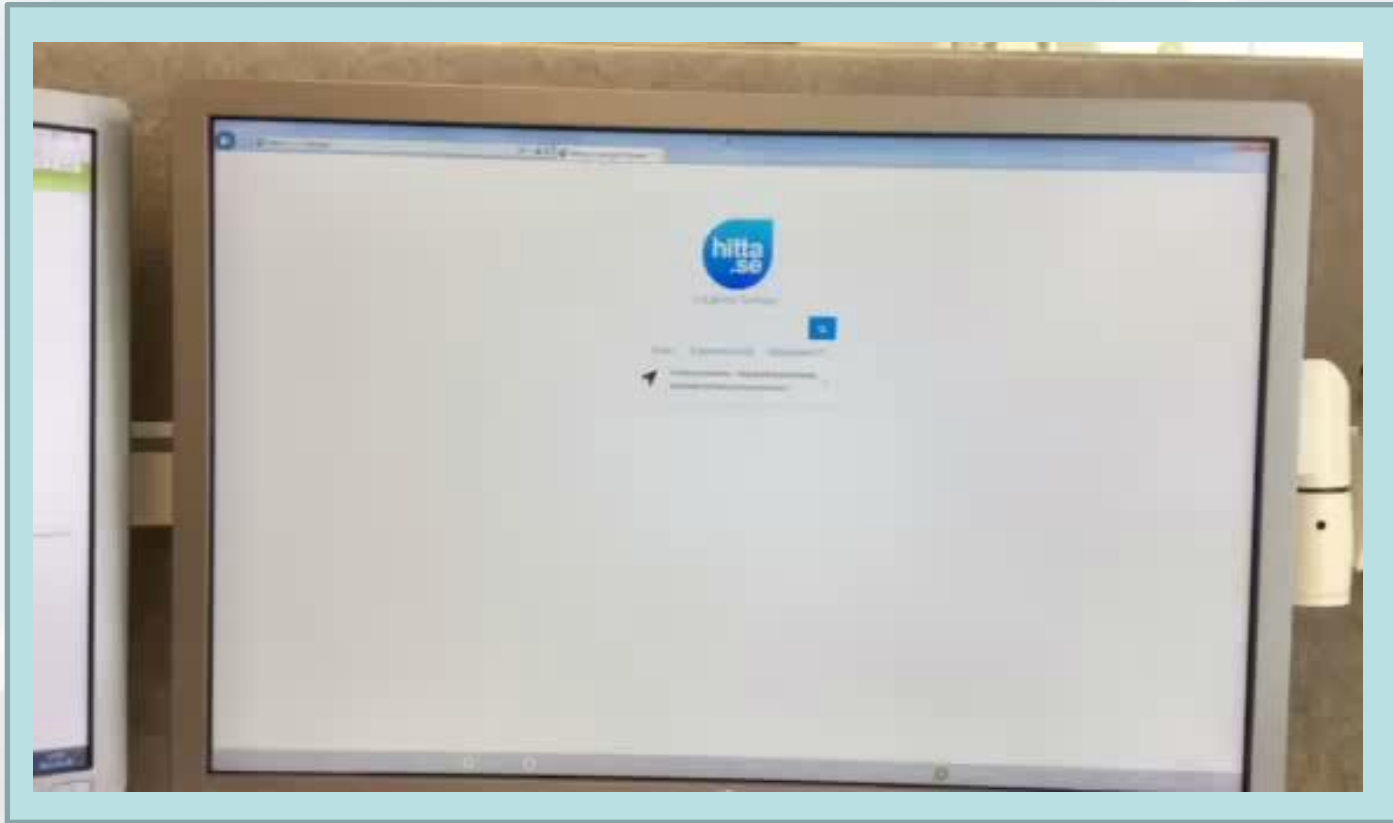
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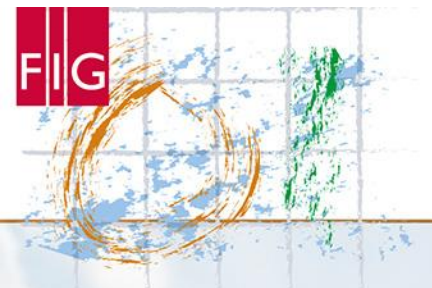


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Conclusions

- Digital technologies bring opportunities for public institutions
- Citizens and elected representatives expect them to make use of them
- For the authorities, it is only to equip themselves to face this challenge. What was enough yesterday might not be so today, and definitely not tomorrow.

Thank you for listening!

Daniel Janonius Löwgren, daniel.lowgren@lm.se



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