



SYSTEMATIC QUALITY WORK AND ITS IMPORTANCE FOR THE CADASTRE AS WELL AS FOR DIGITAL PROCESSES DEPENDING ON CADASTRAL INFORMATION

TESTING DIFFERENT WAYS OF WORKING FOR OPTIMAL EFFECT FROM THE QUALITY WORK

ANNA-KARIN LOWRY, QUALITY LEADER

LANTMÄTERIET

Lantmäteriet - the Swedish Mapping, Cadastral and Land Registration Authority is an authority whose mission is to secure the ownership of real properties, make geodata available in society and lay the foundation for a functioning national economy.

Lantmäteriet is also responsible for leading the digitalization of the community building process.

The division of Geodata holds the responsibility of property information



Regeringskansliet

Facts about Lantmäteriet

- We have been mapping Sweden since 1628
- The head of authority is Susanne Ås Sivborg
- We belong to the Ministry of Infrastructure
- We have approximately 2,200 employees in about 40 locations
- The head office is in Gävle
- We have a turnover of approximately SEK 1.9 billion per year
- 70 percent of the income comes from fees and other compensation, the rest is funded by grants
- There are roughly 3.6 million objects in our property register

WHY QUALITY IMPROVEMENTS?

The property register is:

Basis for public and private actors' decision-making processes.

The basis for an efficient real estate market and secure ownership.

Society's needs today:

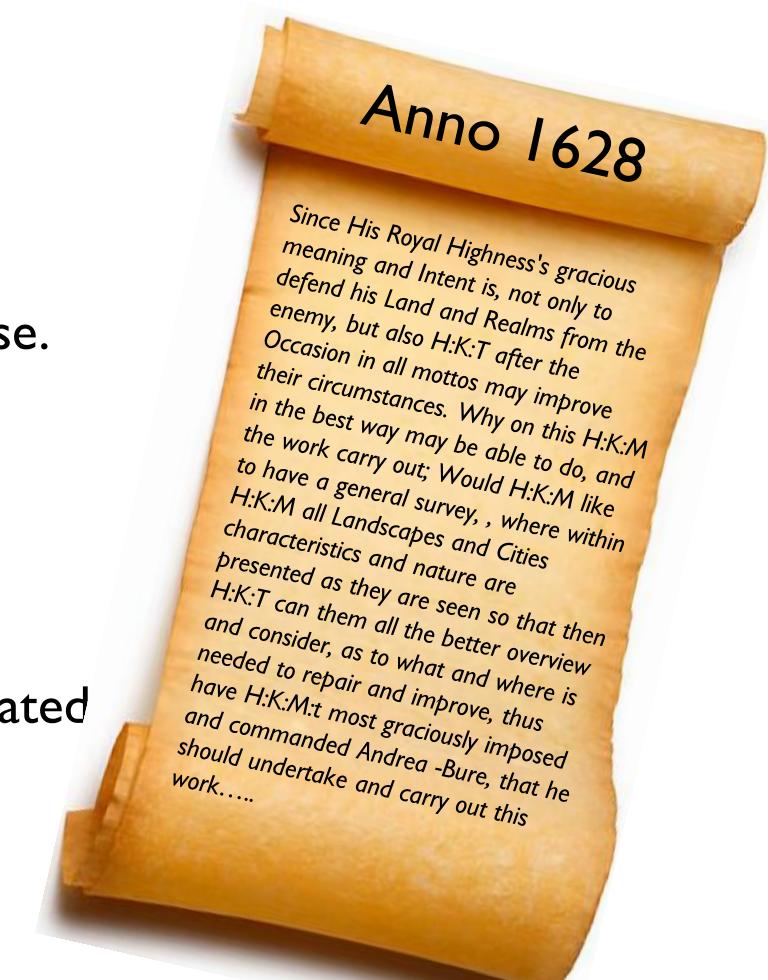
Digital dissemination and technology enable new applications and areas of use.

Leads to new and increased demands on the quality of the information.



The starting position:

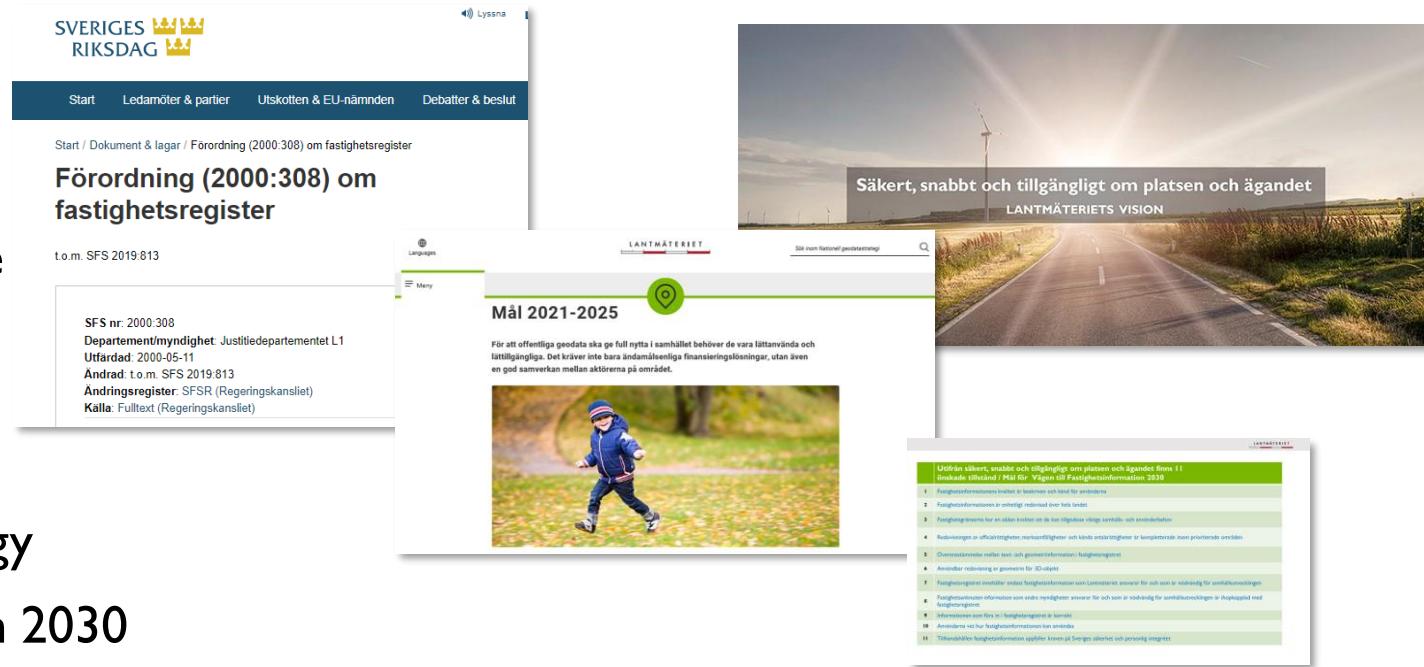
The property register including the register map have been built up and updated during a long period of time with a variety of rules, systems and methods.



SYSTEMATIC QUALITY WORK

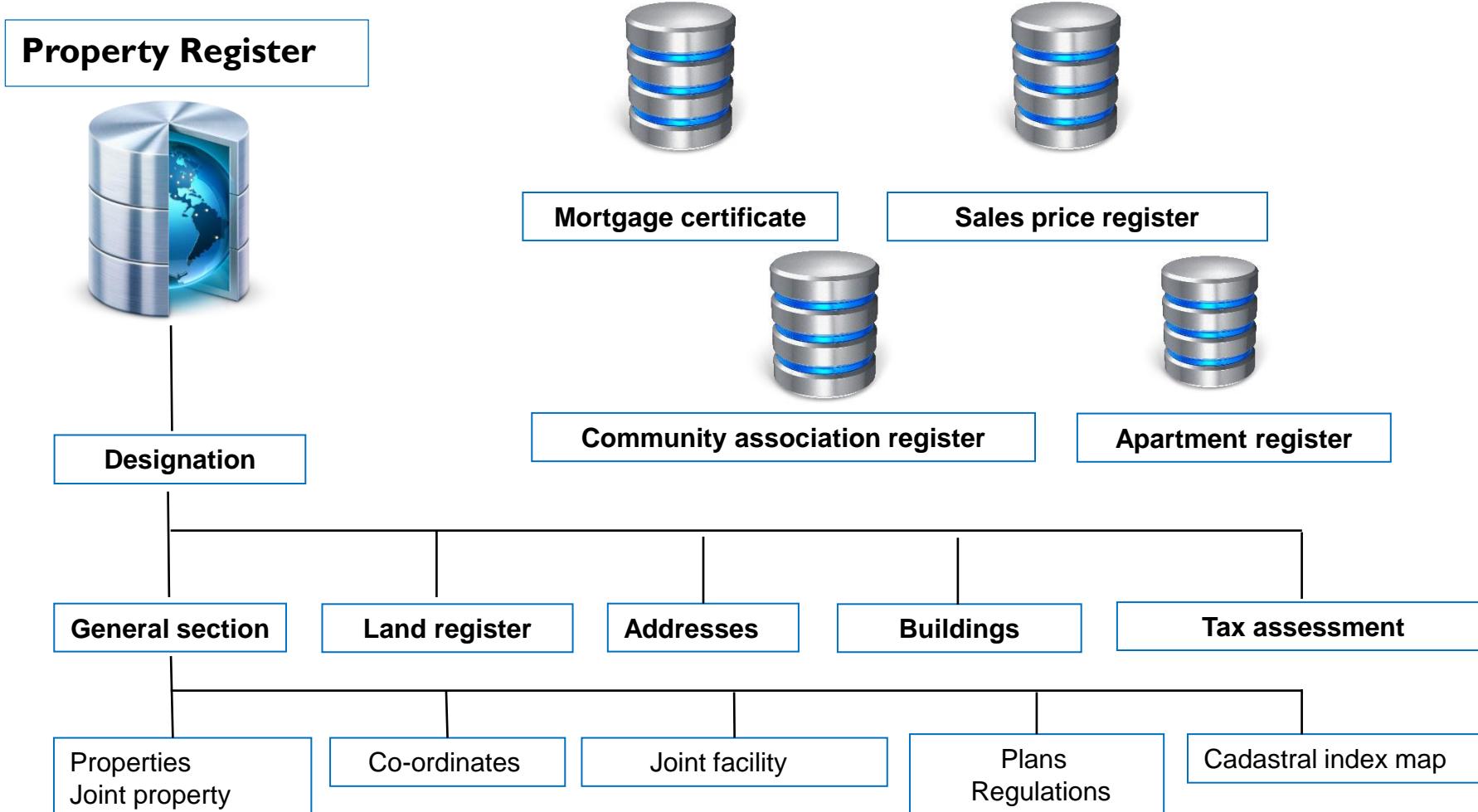
Lantmäteriet's strategic work to systematically improve the quality of the information in the Real Property Register

- The Real Property Register Law (2000:224)
The Real Property Register Ordinance (2000:308)
- Lantmäteriet's strategic document
- Authority-wide targets:
The Swedish National Geodata Strategy
- The Path to Real Property Information 2030



Funding: carried out within the financial framework that exists based on income from the sale of real property information. Discussion of open data is ongoing but requires another form of financing.

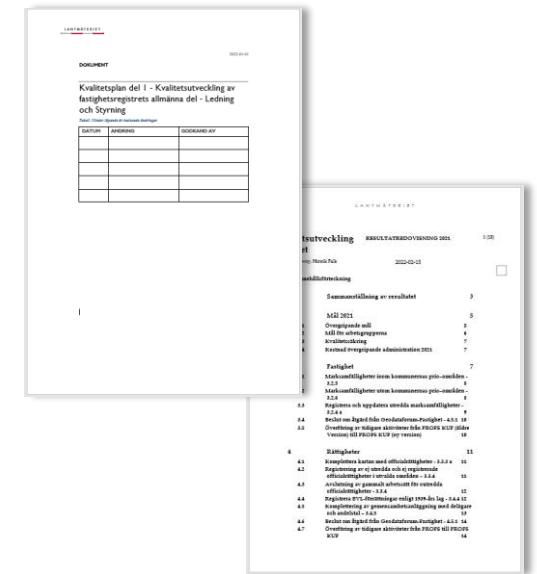
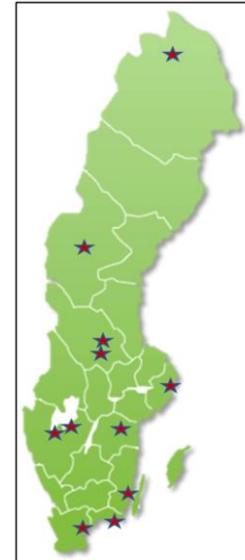
REAL PROPERTY INFORMATION



THE REAL PROPERTY REGISTER – SYSTEMATIC QUALITY IMPROVEMENT

- Aim that the register being enhanced; more **correct, complete, up-to-date and reliable**
- The strategic target terms are the yardstick against which we measure
- Specific group for quality development
- National scale with participants from both The Cadastral Services Division and the Geodata Division
- The work is done in accordance with a yearly **quality plan**

Strategiska måltermer				
•	Aktualitet			
•	Fullständighet			
•	Korrekthet			
•	Kvalitetsmärkning			
•	Metadata			



ANNUAL QUALITY PLAN

How do we develop the content of the annual quality plans?

The strategic goals are broken down into activities with clearly set goals



Annual follow-up and evaluation

- Monthly follow-up of progress, identification of technical or legal obstacles, quality checks
- Management of prioritizations



Annual Report



MARKSAMFÄLLIGHETER INOM KOMMUNERNAS PRIO-OMRÅDEN - 3.2.5

- Arbetet består av att fullständigt utreda och registrera marksamfälligheter i ett helt skifteslag samt att utreda och registrera samfälligheter som endast finns kartredovisade som oregistrerade ytor i registerkartan. I aktiviteten ingår även att utreda tidigare ofullständigt registrerade samfälligheter inom prio-området.
- Aktiviteten hanteras de marksamfälligheter som finns bildade och redovisade förrättningsakter (enskifte, storskifte, laga skifte) samt behandlad vid sekundärdelelling (hemmansklyvning). Alla oregistrerade områden i kartan (S i kartan) med o-identitet hanteras.
- Samfälligheter inom prio-områden utreds fullständigt även för fastigheter som ligger utanför dessa områden. Det är samfällighetens läge som styr utredningens omfattning.
- Registrering sker med korrekt berörkrets och andelstal. Vid komplicerade utredningar sker registrering på enstaka fastigheter eller som sista alternativ på skifteslag.
- Samfällida vägar och diken som utretts och registreras kartredovisas i sin helhet, huvudsakligen som linjeobjekt.
- Undantag för hela aktiviteten är samfält fiske, samfält vatten och järnvägsfastigheter.
- Urval av kommun och områden att arbeta i, sker med hjälp av prioriteringsverktyget. 3 kommuner/ län är prioriterade årligen för nationell spridning.

MÅL 2022

650 objekt KLAR-märkade (genomgångna).



3.3.4 REGISTRATION OF NON INVESTIGATED AND UNREGISTERED OFFICIAL RIGHTS

- Registration of non investigated and unregistered official rights -**

3.3.4

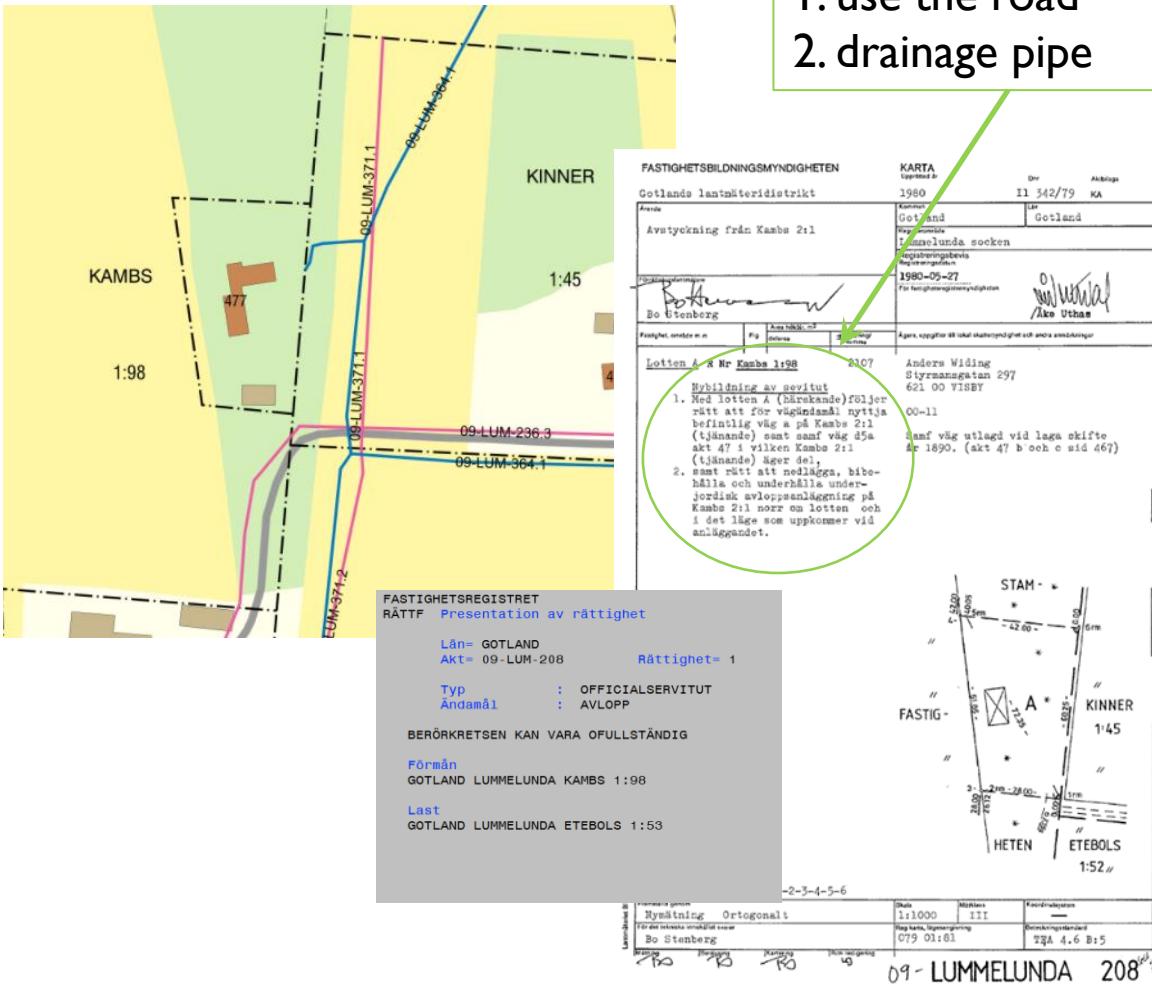
Unregistered official rights that are only found in administrative documents in Arken are supplemented in Property Register's map and text section.

Selections are made from subdivisions formed after 1927 and before 1972 and where no official rights are reported on the subdivision in Property register. Follow-up is done on the number of inspected objects/easements and how many of these have been registered in Property Register's map and text section.

Selection of municipality and areas to work in is done with the help of the prioritization tool. 3 municipalities/counties are prioritized annually for national distribution. The completion is carried out in prioritized municipalities' priority areas. Metadata is registered in PROFS (production follow-up system).

Target 2021: The real property register has been supplemented with additional official rights, approx. 6,400 KLAR-marked (reviewed) objects/easements.

A right to
1. use the road
2. drainage pipe



RESULT

Registration of non investigated and unregistered official rights



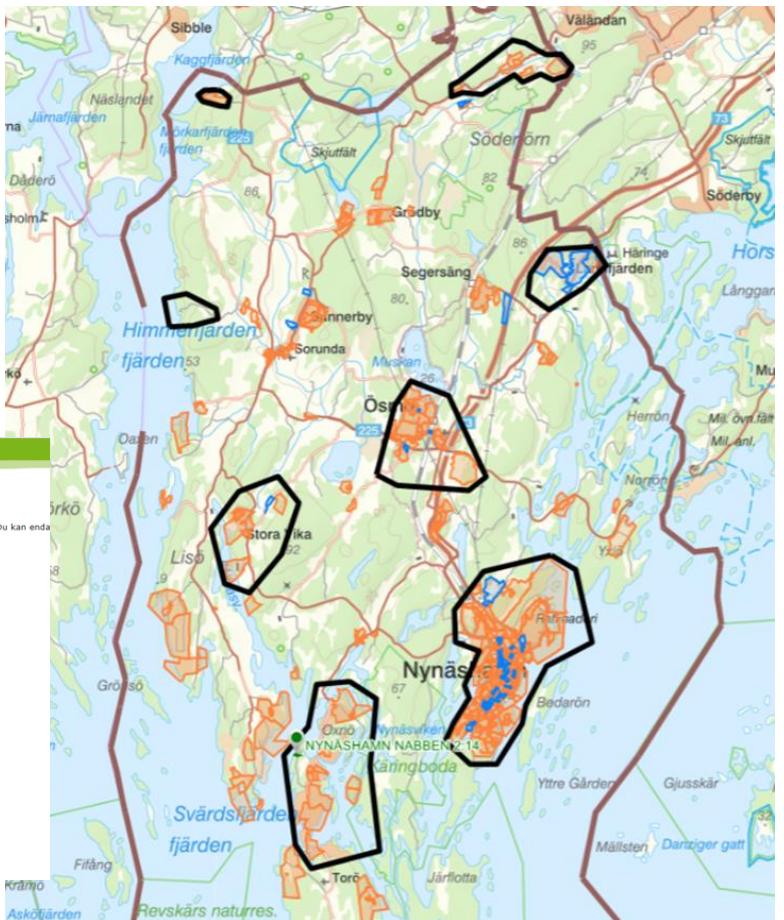
Avancerad sökning
Här söker du direkt i de olika arkiven. Stjärna (*) markerar obligatoriska fält. Du kan enda

Arkiv: *	Lantmäterimyndigheternas arkiv
Län: *	Västmanland
Fritext:	
Ärta från:	
Ärta till:	
Ätgård: Välj ätgård	
<input type="checkbox"/> Enbart akter ej registrerade i FR	
Sök Rensa	

Tidigare sökningar

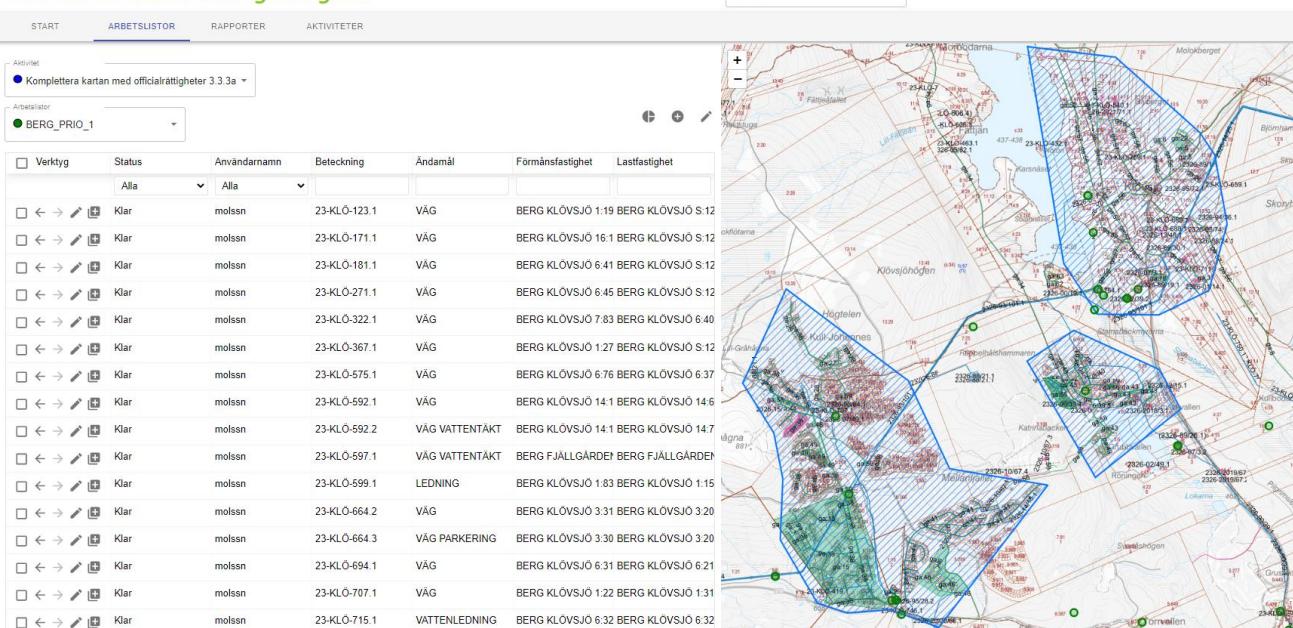
Välj tidigare sökning
2021-10-25: Södermanlands län, allmänna registret
2021-10-25: Södermanlands län, arsta
2021-10-25: Södermanlands län, runtuna, arsta
2021-10-25: Södermanlands län, runtuna, segerstad

Sök



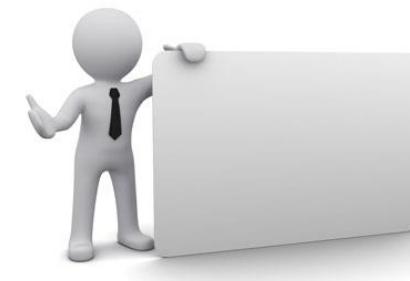
Kommun för akt	Trakt för enhet med akt	Ätgård(er) (L2:3)	Datum akt	Akt	Antal servitut tillstånd i aktén	Sta. sute registreras	Fremm och last sammna	Vägverket på vägmarkn. & plan eller på gata	Juridiskt tillgångsätt	Andelsverksrat, faltit	Karta registreras	Kartredovisas	NEJ i FR	Oktoberisrat	Antal registrerade sv	Anmärkning	Mindre i aktén/sökt	Klär	Handikappare
KARLSKRONA	HASSLÖ	AVST: :	19441019	10-HAS-461							x	x	x						
KARLSKRONA	HASSLÖ	AVST: :	19441019	10-HAS-445	1						x	x	x						
KARLSKRONA	HASSLÖ	AVST: :	19450908	10-HAS-473	1						x	x	x						
KARLSKRONA	HASSLÖ	AVST: INI:	19451011	10-HAS-468	2	x					x	x	x						
KARLSKRONA	HASSLÖ	AVST: 19490113	10-HAS-502	10-HAS-502	2	x	x	x	x	x	x	x	x						
KARLSKRONA	HASSLÖ	AVST: 19490113	10-HAS-500	10-HAS-500	1	x	x	x	x	x	x	x	x						
KARLSKRONA	HASSLÖ	AVST: 19490311	10-HAS-506	10-HAS-506	2						x	x	x						
KARLSKRONA	HASSLÖ	AVST: 19520920	10-HAS-703	10-HAS-703															
KARLSKRONA	HASSLÖ	AVST: 19540116	10-HAS-730	10-HAS-730															
KARLSKRONA	HASSLÖ	AVST: 19550122	10-HAS-740	10-HAS-740	2	x	x	x	x	x	x	x	x						
KARLSKRONA	HASSLÖ	AVST: 19570416	10-HAS-785	10-HAS-785															
KARLSKRONA	HASSLÖ	AVST: SME:	19580628	10-HAS-810	1						x	x	x						

PROFS-Kvalitetsutveckling fastighet



LESSONS LEARNED:

- Considerably more questions than expected regarding the interpretation of the formation of rights made with older legislation and by different land surveyors.
- Determining boundaries for the activity could not be done before the activity started properly despite tests beforehand.
- Changing the documentation program has meant that employees have had to start up twice.
- Despite tests, many differences and new issues arise when you work in different municipalities/counties/part of Sweden.
- It requires a lot of time and effort to start up a new activity.



OTHER ACTIVITIES AND PILOTS...

- Utility easement administered by the municipal association **Norrvatten**.

The association's organization is designed in the same way as in a municipality.



- Norrvatten's task is to produce and distribute drinking water of the highest quality and ensure that the water reaches the customer in a secure and efficient manner at the lowest possible cost in Stockholm region.

Objective: The aim is to find the legal right and a correct registration in the cadastre of an already existing utility easement.

Startup

- ✓ Origin and quality marking is set according to agreement, Origin: geodetic measured, other technology. Average error: 0.3 meters
- ✓ Delivered documentation had to be clear and of good quality
- ✓ In case of doubt in matters concerning delivery, the owner of the Utility is contacted

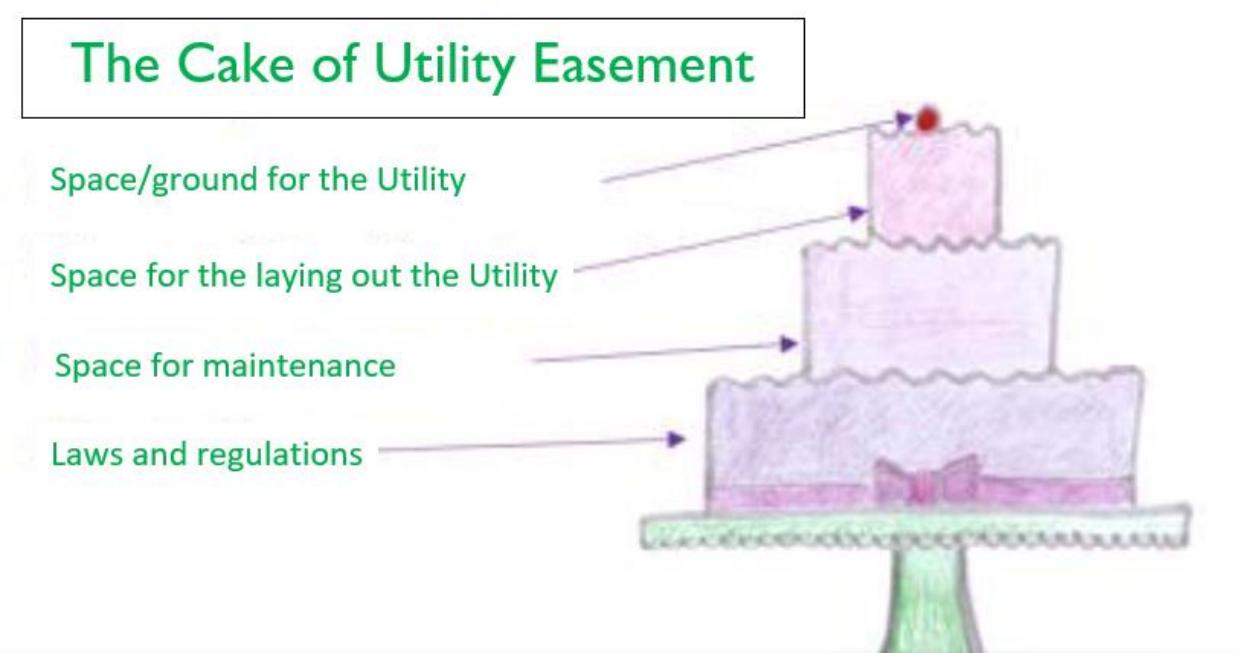
Description of the work

- ✓ Delivered documentation is compared with what is decided in the cadastral dossier, the width of the utility easement and encumbered properties.
- ✓ The Utility easement is only registered, in the cadastre, on properties that are servient (property unit) according to the cadastral dossier or that have become encumbrances in later utility easement procedure.
- ✓ Discrepancies between delivered utility easement and cadastral dossier are documented and sent to the manager at Norrvatten.

UTILITY EASEMENT ADMINISTERED BY NORRVATTEN

Objective: The objective is to find a legal right and a correct registration in the cadastre of an already existing Utility easement

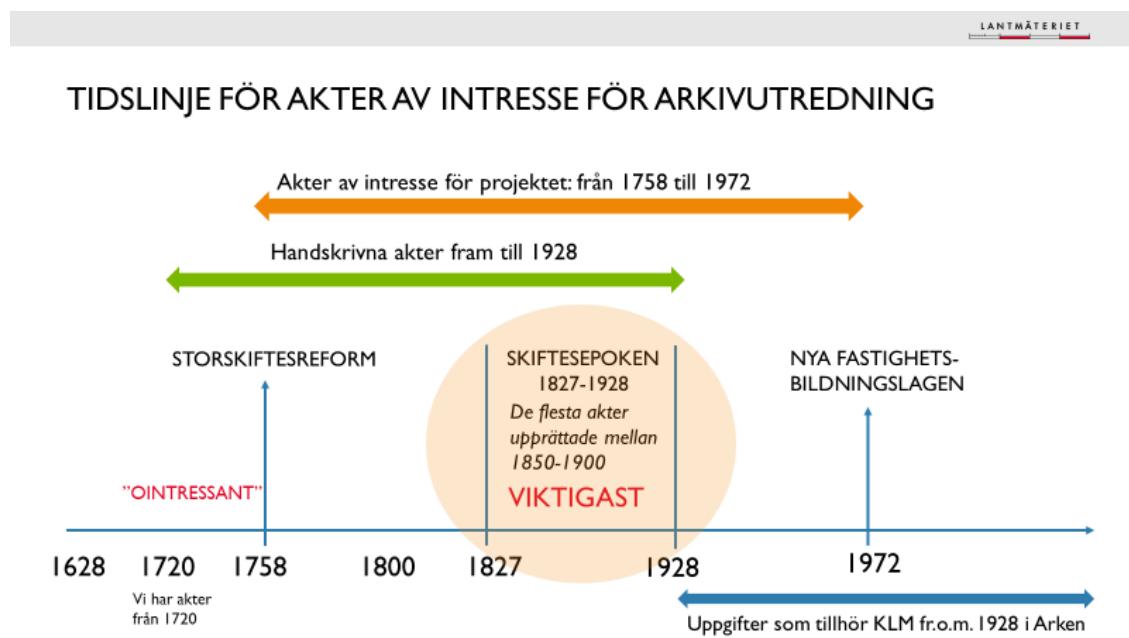
- ✓ Most cadastral plans are on a scale of 1:10,000 and provide a poor basis for how a utility easement should be reported.
- ✓ The utility easement is usually registered as a line object in the cadaster. No consideration has been given to the width of the utility easement which would result in other properties being encumbered.
- ✓ Joint property units in the register cadaster are deficient, which means that allocation of joint property units have not been registered.
- ✓ Poor location accuracy of property at registration in the cadaster has not been noticed by the cadastral surveyor and taken into consideration before registration.
- ✓ The challenge of displaying the utility easement from a legal point of view: The cake of Utility Easement



AI TEXT INTERPRETATION

Developing a mechanical ability to read archived administrative files/dossiers to facilitate the work with archive investigations

- The machine capabilities are developed to facilitate archival investigation and to ensure the ability to read and interpret our files over time.
- In a first phase, the focus is on files from the Shift era - the years 1828-1928. The long-term goal is to include files from 1728 to the present.
- The human competence will continue to be irreplaceable and will also be required based on, for example, the perspective of legal certainty.
- Trained investigators carry out tracing in executive files by using various elements of AI text reading and search



THANK YOU FOR LISTNING!

CONTACT

anna-karin.lowry@lm.se

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www.lantmateriet.se

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