

DANISH MINISTRY OF THE ENVIRONMENT
National Survey and Cadastre

MAPS, GEODATA AND SPATIAL INFRASTRUCTURE

New perspectives of using cadastral information

E-governance and The Geographic Infrastructure

By Marianne Bengtson

Casestudie on SOA solution

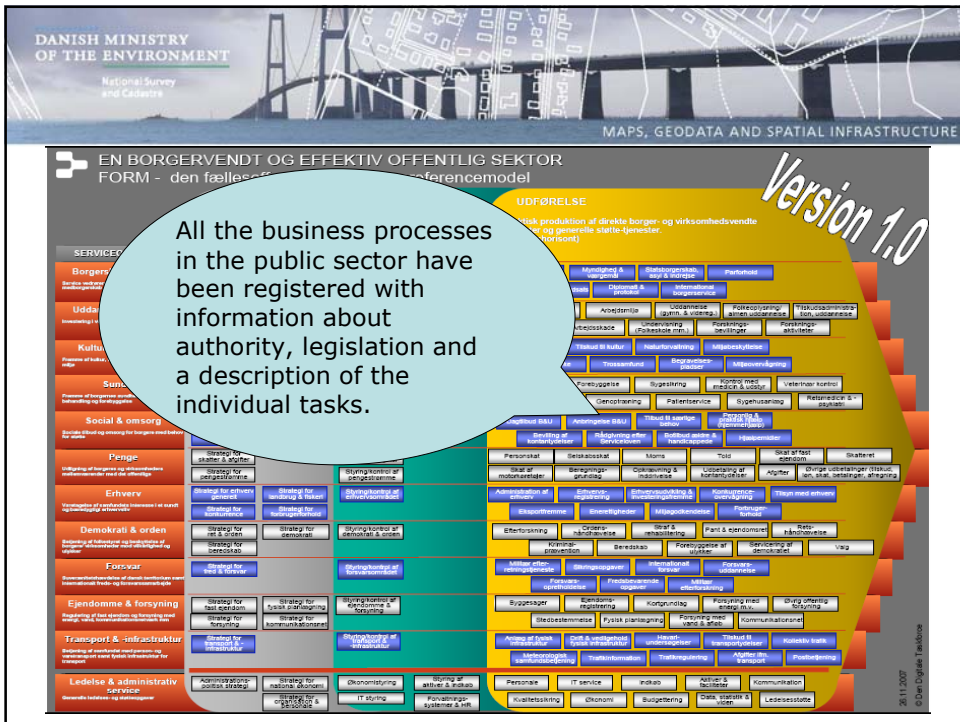
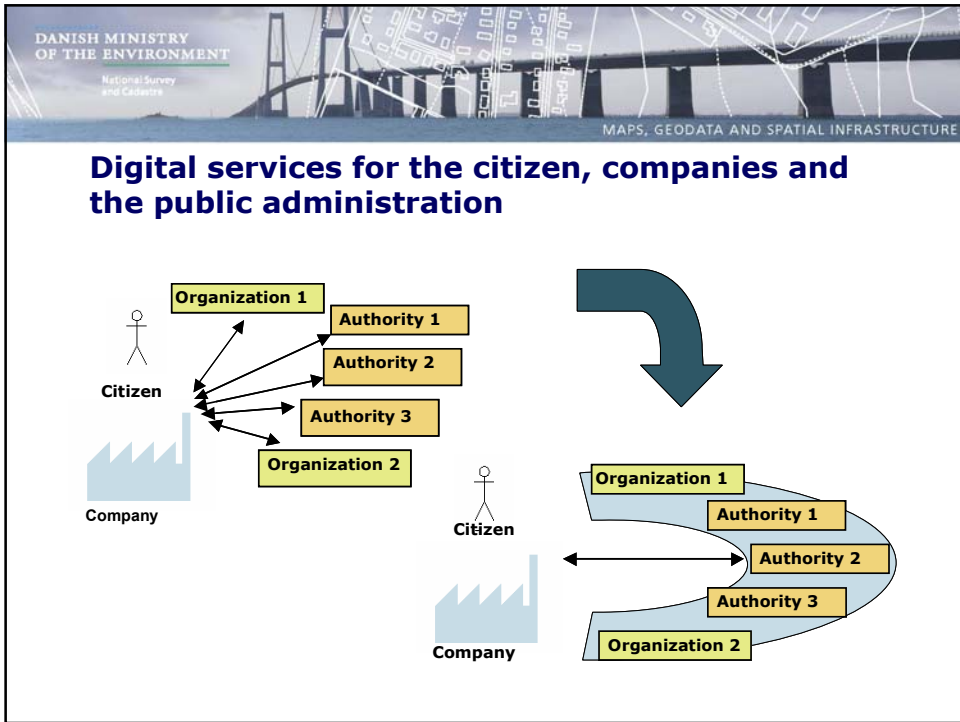
By Lars Erik Storgaard

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Digitalization of the public administration

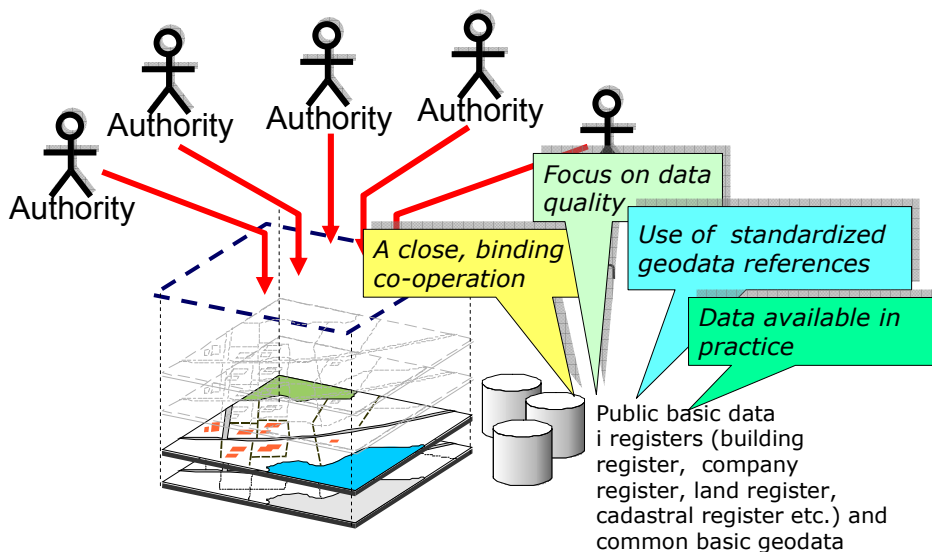
- In 2007 – A common public strategy for establishing a digital administration year 2007-2010
- Focus on:
 - The need for increased digitizing of the public administration and closer relation between the different datasets.
 - The digitalization shall make it easier for the citizen to be in contact with the public authority.
 - Establishing digital solutions, which will create increased value for the users.
- The digitalization strategy point out 3 focus areas 1) Better services for the Citizens, 2) Effective workflow and integrated processes across the public administration and 3) A binding co-operation across the public administration (the governmental authorities and the municipalities)

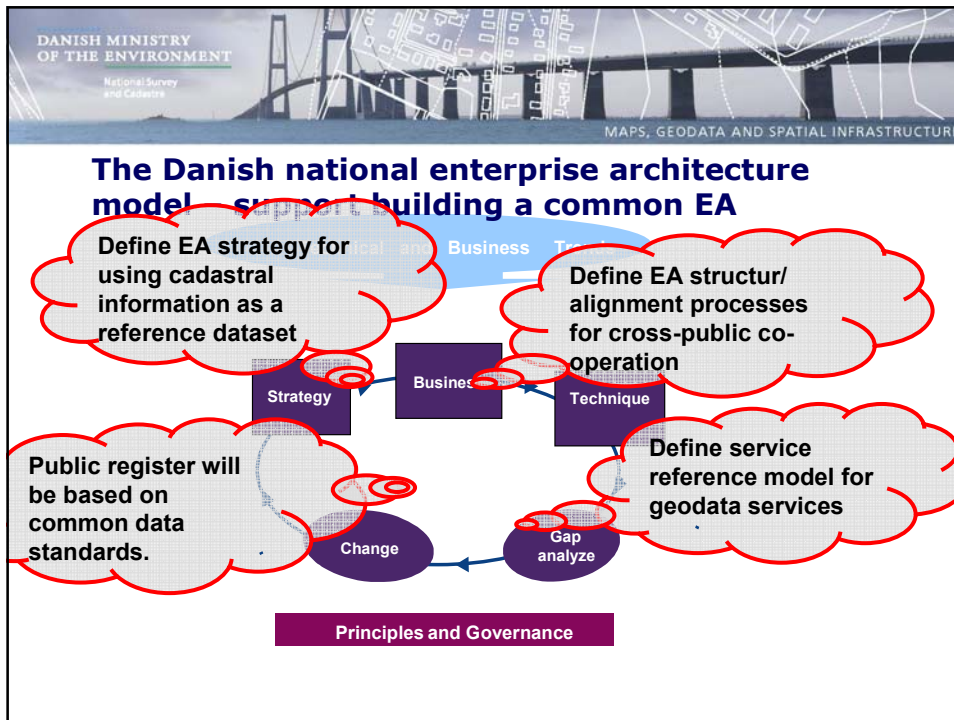


Geodata as a cross-cutting service component

The service community for geodata has set the following goals for 2008:

- Make the effort of using geodata visible across the public and private sector. Take care of any legal and/or financial barriers for an efficient use of geodata.
- Work for including geodata in still more and more new solution (supporting standardisation activities, best practise and user guidelines)
- Work for a higher access to sector specific data, which other sectors would like to use in different solutions. Clarify the future conditions related to data responsibility and rights.





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- ## New perspectives and requirements for using cadastral information
- Focus on how to use the cadastral information as reference data when building business- and it-solutions for handling future digital administration and new services for the public sector, the professional users and the citizens.
 - The “move” towards loosely joined connection between reference data and different sector specific data set up new requirements to the data foundation to meet the future needs:
 - Requirements to data quality, -accuracy, updating frequens and topology rules.
 - Connection to other public registers.
 - Requirements for new geodata services
 - Relations to selected topographic object types.
 - Handling the cadastral information at several levels (3D)

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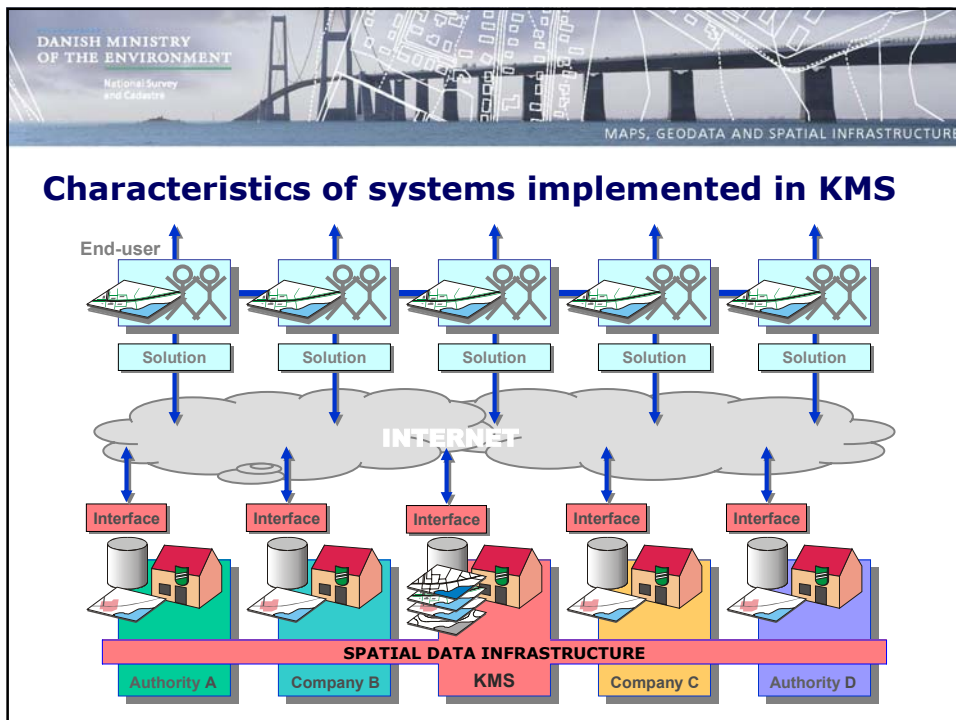
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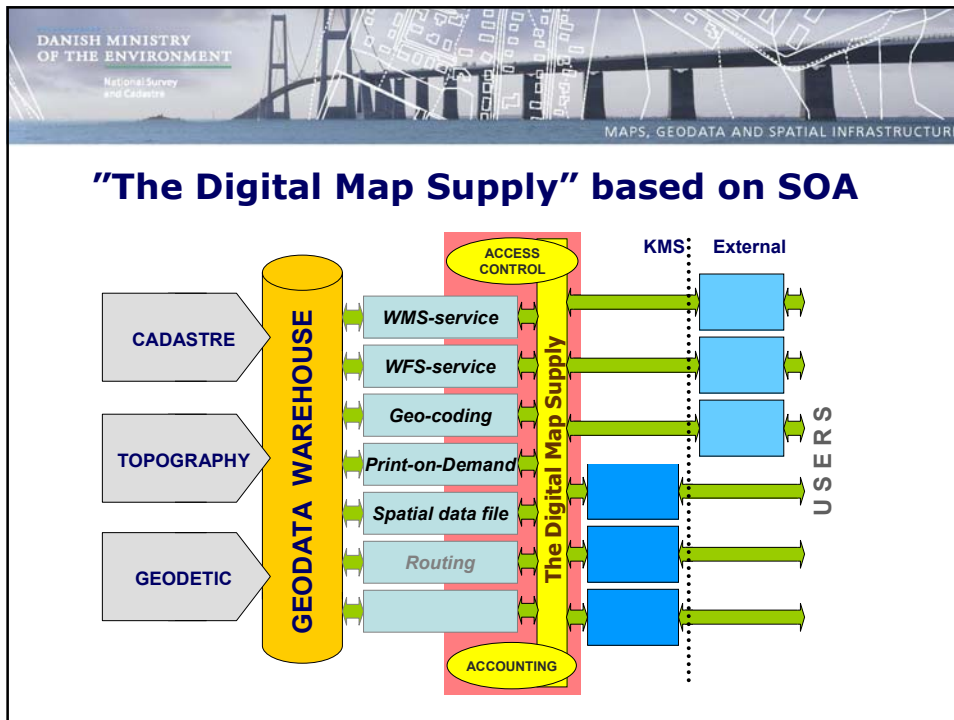
New perspectives of using cadastral information

Casestudie on SOA solution

By Lars Erik Storgaard

The image shows a cadastral map with several land parcels. Measurements include 76m, 4.0m, 2.9m, 3.7m, 88m, 89m, 89m, 88m, 78m, 111m, and 28m. There are also annotations like 'SE', 'SW', 'NW', 'NE', 'Creek', and '111m'. The map is overlaid with a grid and various colored lines and dots.



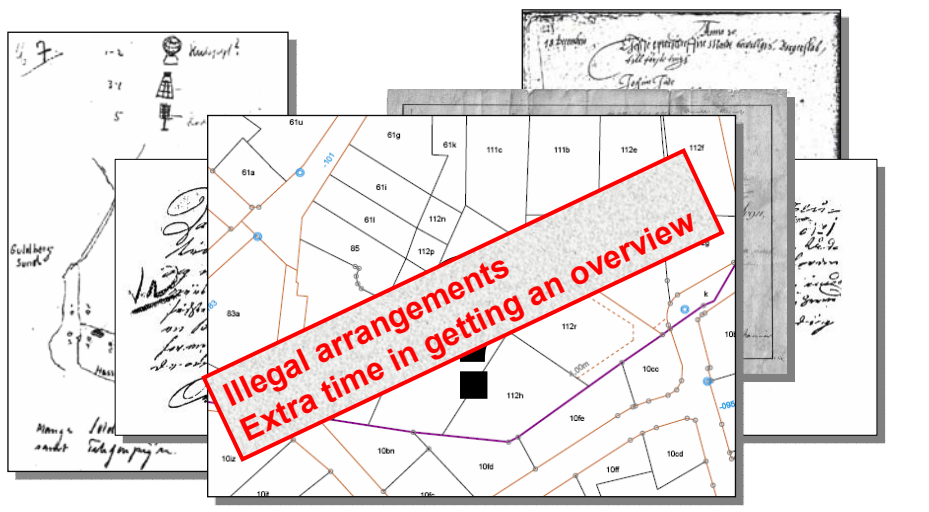


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- ## The advantages of "The Map Supply"
- The user always receives the most current data directly from the server.
 - The cadastral data are updated daily, while topographic data follow a specific updating frequency.
 - It is possible to integrate geodata with self-owned or other data.
 - The use of international XML and OpenGIS standards -> the user only has to have an ordinary internet-access.
- The Digital Map Supply is established as an element in the geographical infrastructure.**

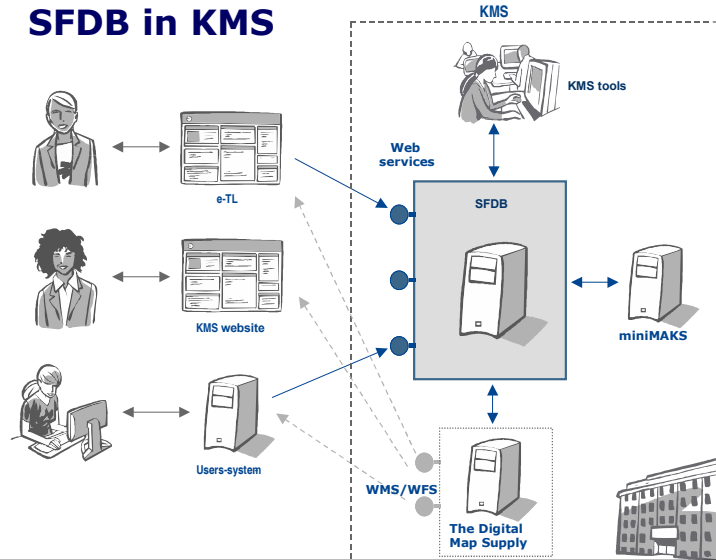
Case: Using the Cadastral map as reference dataset in a SOA solution

- KMS works on a project about the digital land registration (e-TL) where the cadastral map is used as reference data.
- KMS is, in cooperation with The Danish Court Administration, developing a system (SFDB) for the handling of spatially referred easements.
- SFDB will give an improved overview of a property's legal status by providing a national database over spatially referred easements.
- SFDB will ensure that the spatially referred easements is always up-to-date and related to the current property situation (the cadastral map).

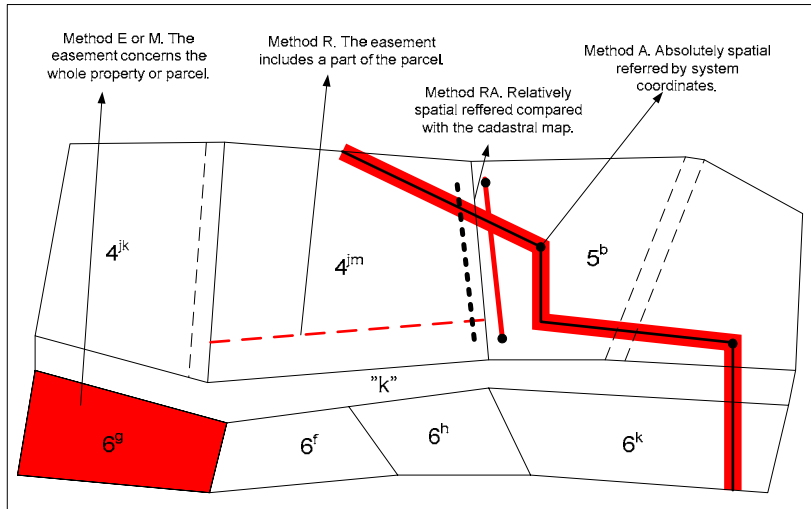
Easements are difficult to locate



SFDB in KMS



Spatial reference methods



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Categories and details

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Køb oplysninger om valgte dokumenter

Ledning

Ejendomsforh.

Tekniske anl.

Dokument om byggefelt Kategori: Ejendomsforhold
 Matr.nr.: 1h Nøjagtighed: 1 (< 20 cm)
 Ejerlav: Rønnede By, V. Egede Stedfæstelsesmet: A (direkte stedfæstelse)
 Stedfæstelsesdato: 03-06-2007

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Summary

KMS has decided to start a project with focus on the following activities:

- Look at new perspectives of using cadastral information together with other geographical data in different areas in the public sector including demands for accuracy and updating.
- Establishing business- and it-architecture model for the use of cadastral map as a reference dataset.

