New perspectives of using cadastral information
E-governance and The Geographic Infrastructure
By Marianne Bengtson
Casestudie on SOA solution
By Lars Erik Storgaard

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 cooperation across the public administration (the governmental authorities and the municipalities)
Digital services for the citizen, companies and the public administration

All the business processes in the public sector have been registered with information about authority, legislation and a description of the individual tasks.
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.
The Danish national enterprise architecture model—support building a common EA

- Define EA strategy for using cadastral information as a reference dataset
- Define EA structure/alignment processes for cross-public co-operation
- Public register will be based on common data standards.
- Define service reference model for geodata services

Principles and Governance

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 frequencies 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)
New perspectives of using cadastral information
Case study on SOA solution
By Lars Erik Storgaard

Characteristics of systems implemented in KMS
The advantages of "The Map Supply"

- The user always receives the most recent data directly from the server.
- The cadastral data are brought up-to-date daily, while topographical data follow a specific updating frequency.
- It is possible to integrate geodata with self-owned data and other data.
- It is based on international XML and OpenGIS standards - the user only has to have an ordinary internet-access.
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

Illegal arrangements
Extra time in getting an overview
SFDB in KMS

Spatial reference methods
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.
Thank you for your attention

Marianne Bengtson: mjb@kms.dk
Lars Erik Storgaard: laers@kms.dk