

FOTdanmark

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National Survey and Cadastre
 (KMS)

Hjørring Kommune
 (Danish municipality)

Representing FOTdanmark

FOTdanmark's goal:
 To establish a common
 spatial data infrastructure
 for eGovernment in Denmark

Administrative and financial benefits:

- Homogeneous and seamless data collection
- High quality and updated spatial data
- Efficient access to the infrastructure for all parties, including third parties.
- Large-scale data production

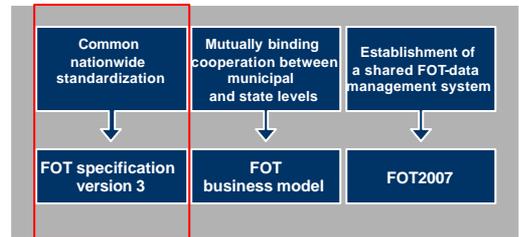
FOT → Common object types

The project has

- a technical approach (paper 826)
- a business model approach (paper 827, version 2)

This presentation highlights:
 Updating at the source

FOTdanmark: Fields with high priority



Business related changes = "Real time updating"

Actuality – Updating FOT at the source

-  Monthly ⇒ Instantly
-  Yearly ⇒ Instantly or often
-  Yearly ⇒ Instantly or often

Actuality in FOT is achieved by linking FOT-data to existing tasks in public administration

National infrastructure for geodata
Case: Building

Spatial Data Service Community
Serviceforbælskab for Geodata
Project FOTdanmark
common spatial infrastructure

- Coherence: Register and map
- Links: Geographical object and administrative object
- Standardization and harmonizing across different levels of administration

Registration in BDR/
Planned building in FOT

Building approved in BDR/
Accurate measured building (new version)

Provisional building

Final building

FOT - a common base map...
a precondition

FOT as a common base map for public authorities at all levels

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FOT-specification, version 3,
changing scope from map dataset to a geographical administrative dataset

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- Two scopes:
 1. A dataset for "traditional map use"
 2. A dataset which is linked to public registers
- Includes definition of essential geographical objects to be used in municipality and governmental administration levels. Two existing map datasets are merged together
- Ownership of FOT-objects: Objects are "owned" by the authority that permits the change
- Includes:
 1. About 60 feature types
 2. Ortho photo in 10, 20 and 40 cm
 3. 3 classes of accuracy and level of detail (10 cm to 1 m)
 4. Links to public registers (e.g. the Danish building and dwelling register, and national road registers)

FOTdanmark: Fields with high priority

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The proposed business model

Fundamental principles:

- Common public cooperation
- Nationwide, based on voluntary participation
- Common intellectual property rights to data
- The parties engaged do not increase their mapping expenses

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FOTdanmark – proposed organization

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Local FOT cooperation

Data production

A local FOT cooperation:
Has responsibility for data production, including:

- inviting to tender for periodic photogrammetric updating
- collecting supplementary local claims
- ensuring the data quality

Consists of the municipalities in a specific geographic area and the National Survey and Cadastre.

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Denmark
total area
43.000 km²

Local FOT cooperation:
The country will be divided into 5-10 regions

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The set of agreements

Agreement of cooperation

Local Government Denmark
and
National Survey and Cadastre

Agreement of entry

The local government, National Survey and Cadastre
and
FOTdanmark

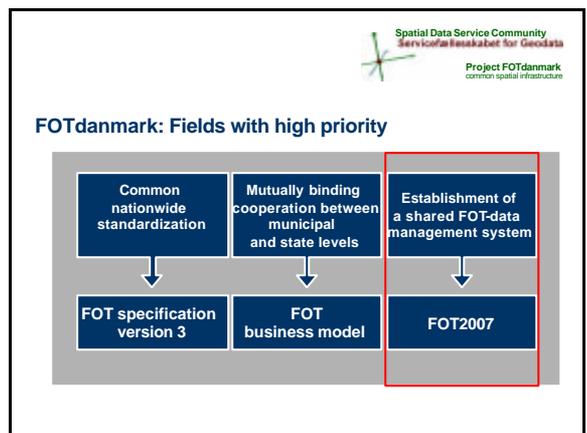
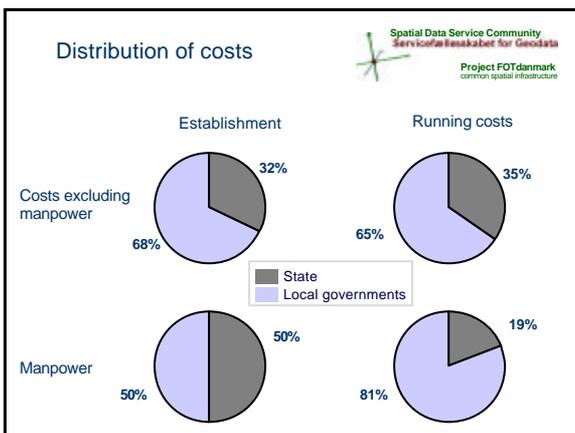
Agreement of local FOT cooperation

Local governments in a specific area
and
National Survey and Cadastre

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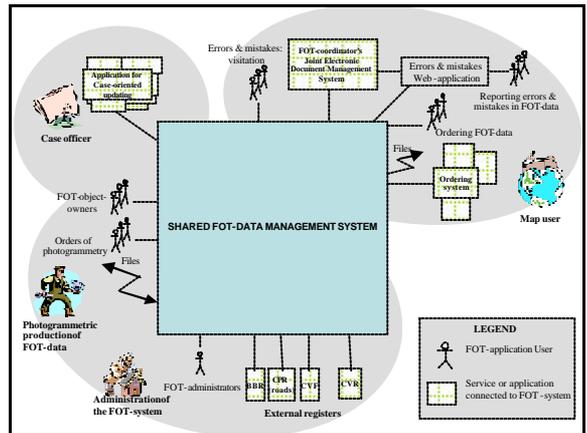
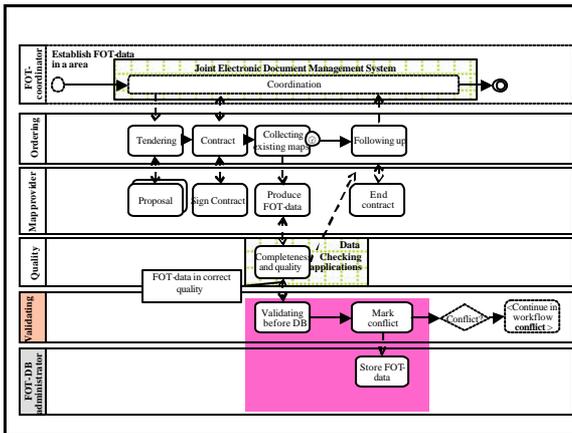
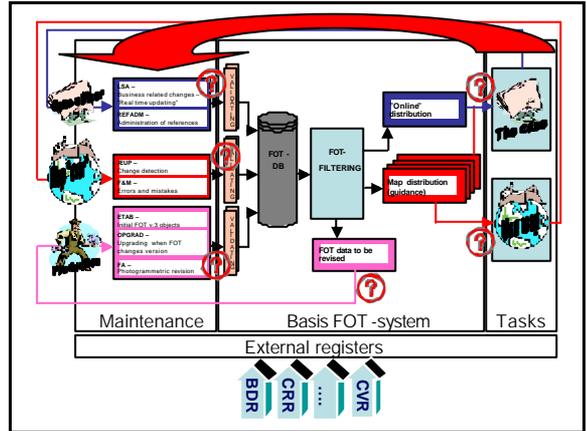
Distribution of costs

	Local governments	State
Photo and orthophoto	50%	50%
Data production	rural 50% urban the rest	50% about 20%
Data handling system	75%	25%
Secretariat	50%	50%
Other common tasks	50%	50%



The shared FOT-data managing system

- Determine the demarcation, and to decide the overall architecture
- Activities and terminology follows best practice given by the Danish Ministry of Science, Technology and Innovation (www.OIO.DK)
 - +Interoperability +Security +Openness
 - +Flexibility +Scalability
- Input to the process:
 - FOT specification, version 3
 - A provisional sketch of the FOT-data managing system
- The overall purpose of the FOT-system:
 - Quality checks and validation in one system
 - FOT-ID



Stocktaking and future milestones:

- FOTv3. endorsed March 2006
- FOT data managing system January 2007 (FOT2007)
- Production in two local FOT-groups
- Business model approved March 2007
- FOT completed end 2010