Data om miljøet i Danmark



Shared data - many users Danish Natural Environment Portal

by/ Jens Jakob Nørtved Bork, Enterprise Architect



What is Danish Natural Environment Portal?

Containers of shared natural environment information

Provider of services for maintaining the natural environment information



Background

- The Structural Reform abolished the county level in Denmark, and the responsibility for data collection were divided between local and national authorities.
- The 14 Danish counties held the majority of environmental data.
- They had established a number of systems for processing, storing and reporting data – basically 14 different set-ups.
- Thus, a need for a common share point for data.
- Result: Co-operation on establishing the Danish Natural Environment Portal (DMP), launched January 2007 resulting in a partnership a cross of authorities.



Aims of the Danish Natural Environment Portal

- Give the authorities access to store, read and maintain their data
- Give the citizens and other parties access to relevant information about their natural environment



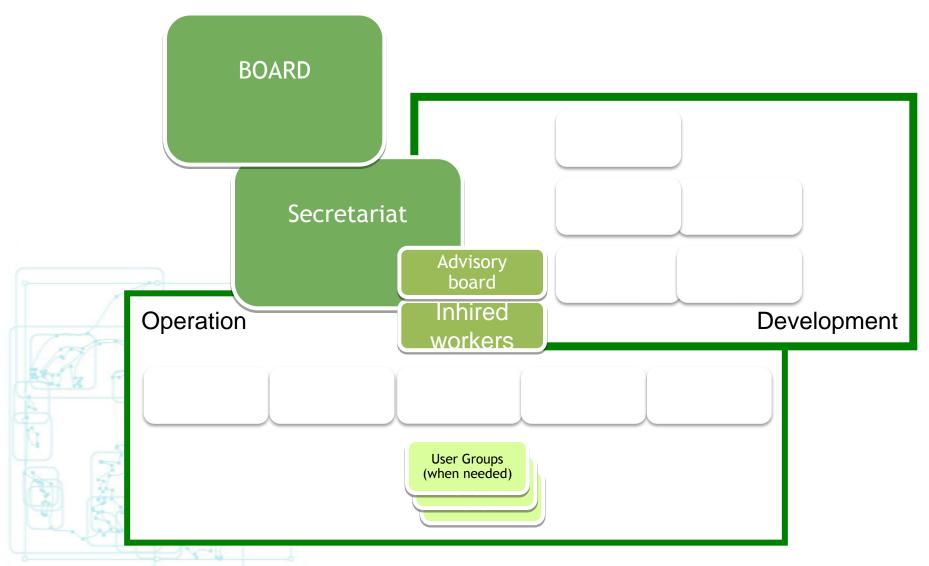
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The organisation

Based on an agreement that specifies.:

- data responsibilities <u>who, when and where</u> for over 200 different types of data
- Members of the board
- The Ministry of Environment appoints the chairman
- Budget
 - Municipalities pay 45 %
 - The ministry pays 45 %
 - The five regions pay 10 %

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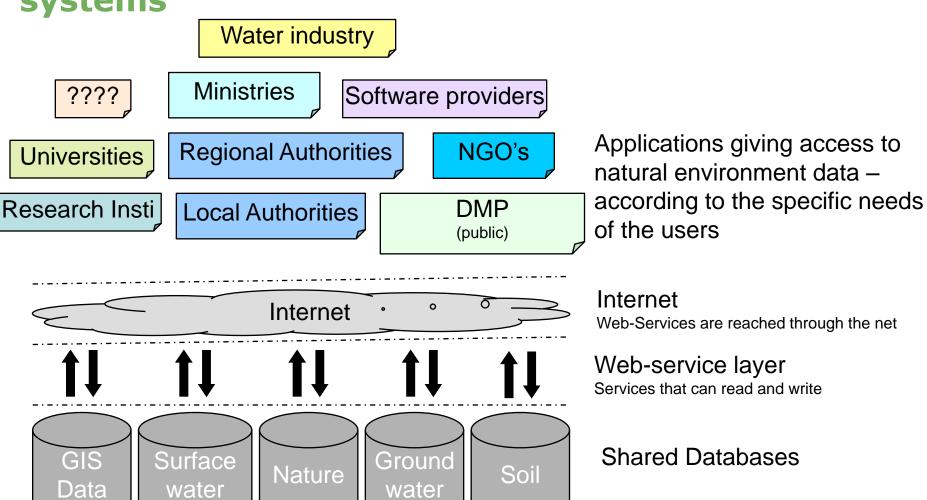
What is the content?

- Five fields of data: Nature, GIS information, Surface water including pointsources, Ground water, Soil.
- The IT-platform is a mix of inherited county systems and new developed systems
- A large scale Identity management system based on active directory federation service has been established

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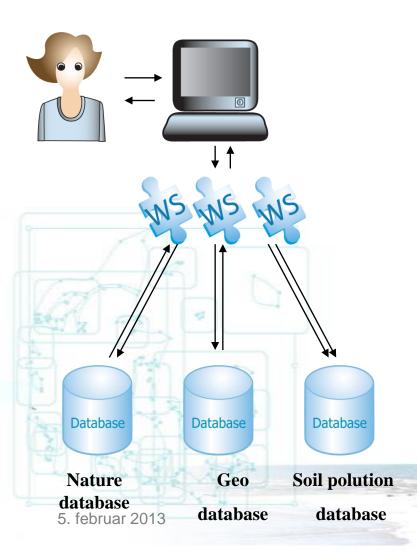
Principles based enterprise architecture Vision, Goals and Mission Lines of Business **Principles for Goals Business** Goals & Workforce processes Initiatives Principles for services Products & Principles for security Services **Dataformats** Security / Standards / Data & and Principles for data Information -standards **DS-484** Systems & **Principles for Applications** Technology **Applications Networks &** Principles for infrastructure Principles for Technologi Infrastructure OIO-standards. Choise of technology SLA and standards

Danmarks Miljøportal – Architecture and systems



Danmarks Miljøportal

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Geodata

Implemented geodata architecture.

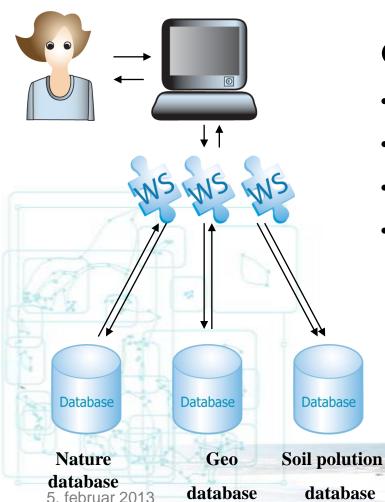
- •Geodata assembled in one database
- •Geodata integrated with environmental data using UUID.
- •Based on identity managed Soap-services

Opportunities.

- •Large possibilities for integrations between different types of natural environment data.
- •Minimal extent of redundancy in data
- Possibilities for sharing of geodataobjects with other than envionmental authorities

Miljoeportal.dk 1

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Geodata

Challenges

- •Possibilities for inconsistency in data.
- •Major requirements for the server operations.
- •Orchestrated services are challenging.
- •Important requirements for building services.



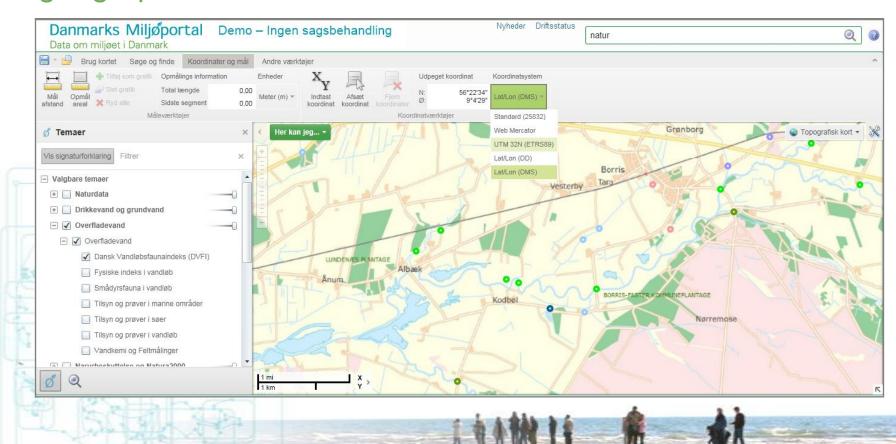


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5. februar 2013

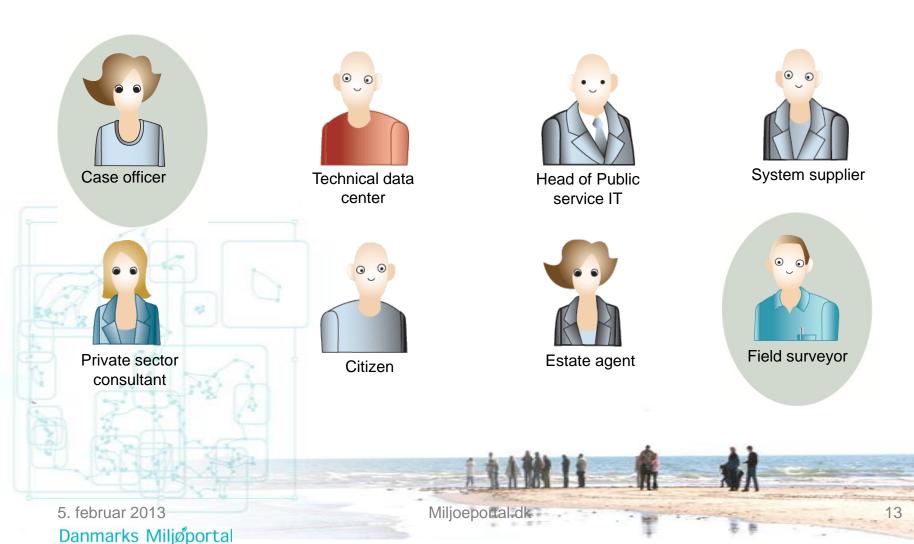
Our presentation of natural environment data with geographical references - Arealinformation



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Who is using Danish Natural Environment Portal?

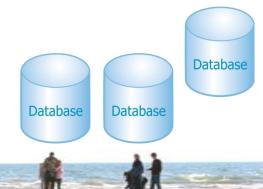


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What are our challenges?

- Many databases
- Many systems
- Many needs
- Many users
- Several authorities and other partners must colaborate







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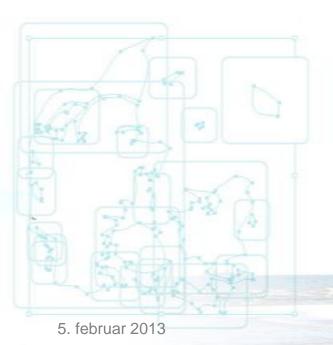
Future

Focus areas:

- 1. Consolidation of the data content
- 2. Consolidation of operational environment
- 3. Inclusion of new areas
- 4. Effecient digital workflow
- Public information

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Questions







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Thank you!

