WFS/WMS as a base for national portals
GIS & ICT

Who are we?
- 45 employees in DK
  (~100 in NL)
- IT-specialists, engineers, planners
  - Consultants, Project managers, System developers

Key Areas
- Geographical Information Systems
- Maps, Geo data and Property Information
- Environment
- Utilities
- Planning and Logistics

Consultancy, System development, Own products
See everything a little different
DK: some projects

- **Forest Agency, Ministry of Environment**
  - Planning, budgeting and administration of Danish State Forestry (4% of DK)

- **Danish Nature & Environmental Portal, MOE**:
  - Spatial information, [http://kort.arealinfo.dk/](http://kort.arealinfo.dk/)
  - Nature Database (Terrestrial) [http://Naturdata.dk](http://Naturdata.dk)
  - Surface Water Database
  - Concept for webservice (SOA)
  - Concept for common user administration (single sign-on) for environmental solutions
DK: some projects

- Structural reform 2006 - Consultancy examples
  - Ministry of Business Affairs
    Consultancy Roads and Addresses
    Building Register
  - Organisation of Danish Municipalities
    Guideline for GIS use end implementation
    in Danish Municipalities

- Denmarks Spatial Planning Database,
  http://plansystem.dk
CBMap & SpatialEdit Online editing

- Web GIS – Info system : CBmap
- Web GIS – Online editing : SpatialEdit
National portals based on standards

- Denmarks Spatial Planning Database, http://plansystem.dk
Danish Environment Portal

- Nature information
- Protected areas
- Water

http://miljoeportal.dk
Online editing - why?

- WFS-T
Architecture of a portal

Download and upload
Online editing
Digital Map Supply
National WMS/WFS

SOAP
WMS/WFS
Web - Presentation
Desktop GIS

Core system
Benefit of standard interfaces
Demo

Danish Environment Portal
References

• Danish Environment Portal
• Denmark’s Spatial Planning Database
• Greenland Homerule
• Municipalities
• Danish base map