The Integration of **Natural and Built Environment Data**

The Experience of Europe with a Focus on Denmark

Prof. Stig Enemark

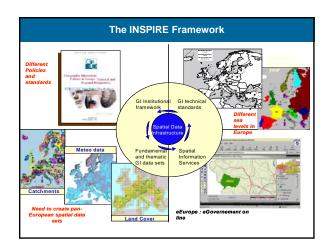
Aalborg University, Denmark Vice-President of

THE SEVENTEENT UNITED NATIONS REGIONAL CARTOGRAPHIC CONFERENCE FOR ASIA AND PACIFIC, BANGKOK, 18-22 SEPTEMBER 2006



The INSPIRE Concept

The INSPIRE Concept INSPIRE is ambitious. The initiative intends to trigger the creation of a European spatial information infrastructure that delivers to the users integrated spatial information services. These services should allow the users to identify and access spatial or geographical information from a wide range of sources, from the local level to the global level, in an inter-operable way for a variety of uses. The target users of INSPIRE include policy-makers, planners and managers at European, national and local level and the citizens and their organizations. Possible services are the visualization of information layers, overlay of information from different sources, spatial and temporal analysis, etc.



The INSPIRE Time Schedule

Time schedule for implementation:

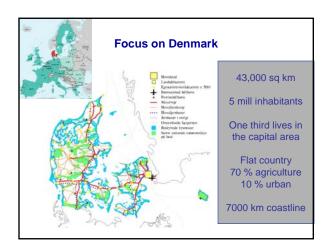
- End of 2008: Implementing rules for metadata, network services, monitoring, and reporting
- End of 2011: Implementing rules for the use of spatial data and data sharing between public bodies
- End of 2013: datasets as described in the Annexes will be available
- End of 2014: INSPIRE will be fully operational.

INSPIRE works on two parallel lines:

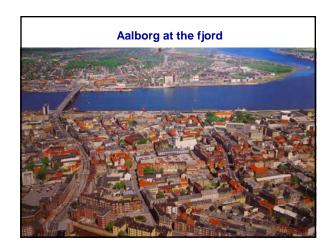
- A top-down European approach A bottom-up GI sector approach

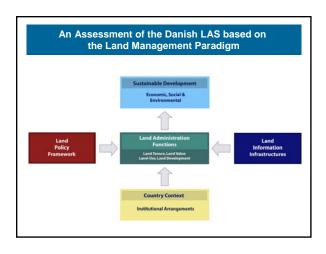
Key European Trends and Characteristics

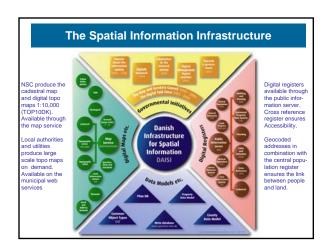
- Environmental concerns seems to be the key political driver for INSPIRE and also for National Spatial Information Infrastructures.
- Most European cadastres are complete and highly accurate allowing their utilization in a range of management and planning activities
- Most European countries have developed authoritative, government administered registers to manage people, location and land-use activities.
- Institutional issues seems to be the major barrier for achieving comprehensive and integrated solutions

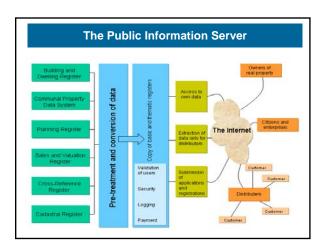




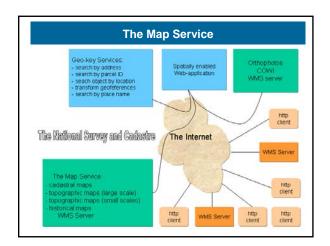










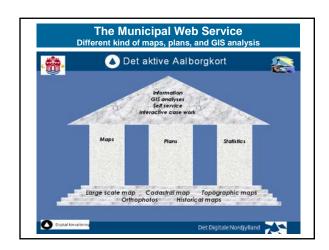


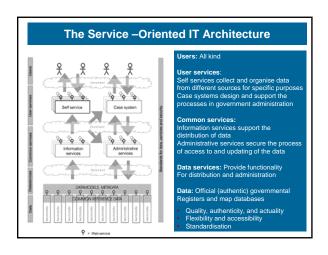


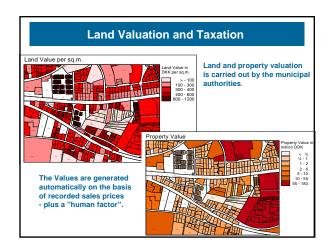


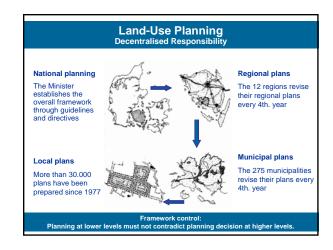


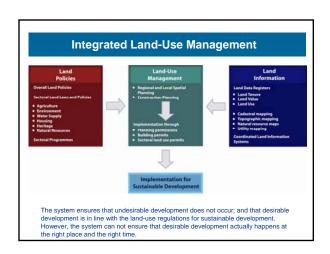














Challenges and New Initiatives New initiatives Challenges and Barriers • No overall Land Policy ? The ICT architecture No national policy for the • The Land Book Spatial Data Infrastructure ? • The Property Concept · Implementation of The Cadastral map e-government? Merging of the Cadastre and • The Multipurpose Cadastre The Land Book? • Implementation of the new • 3-D and Marine Cadastre? administrative reform The Property Concept?

