

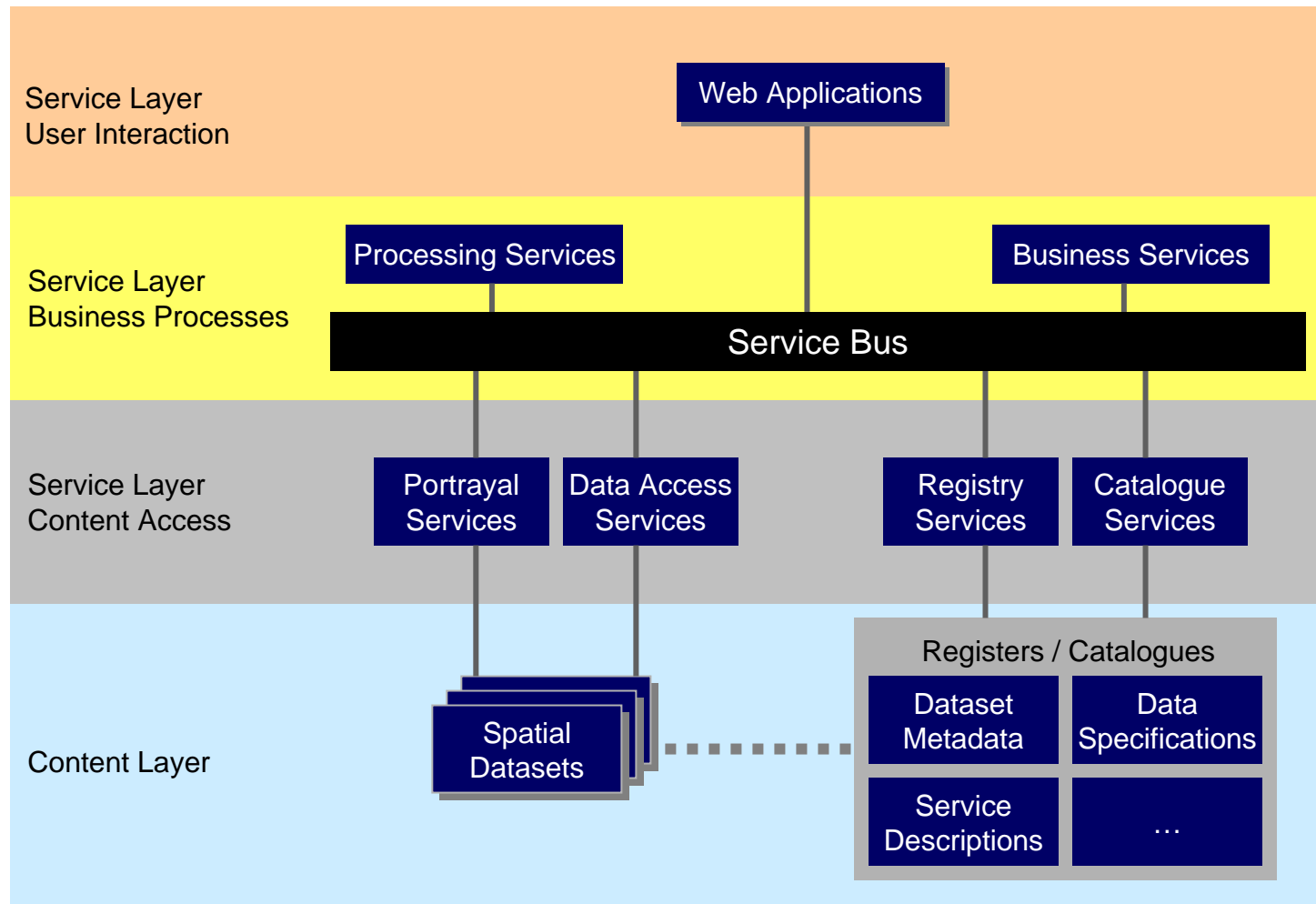


# The Danish SDI: A Technical Perspective

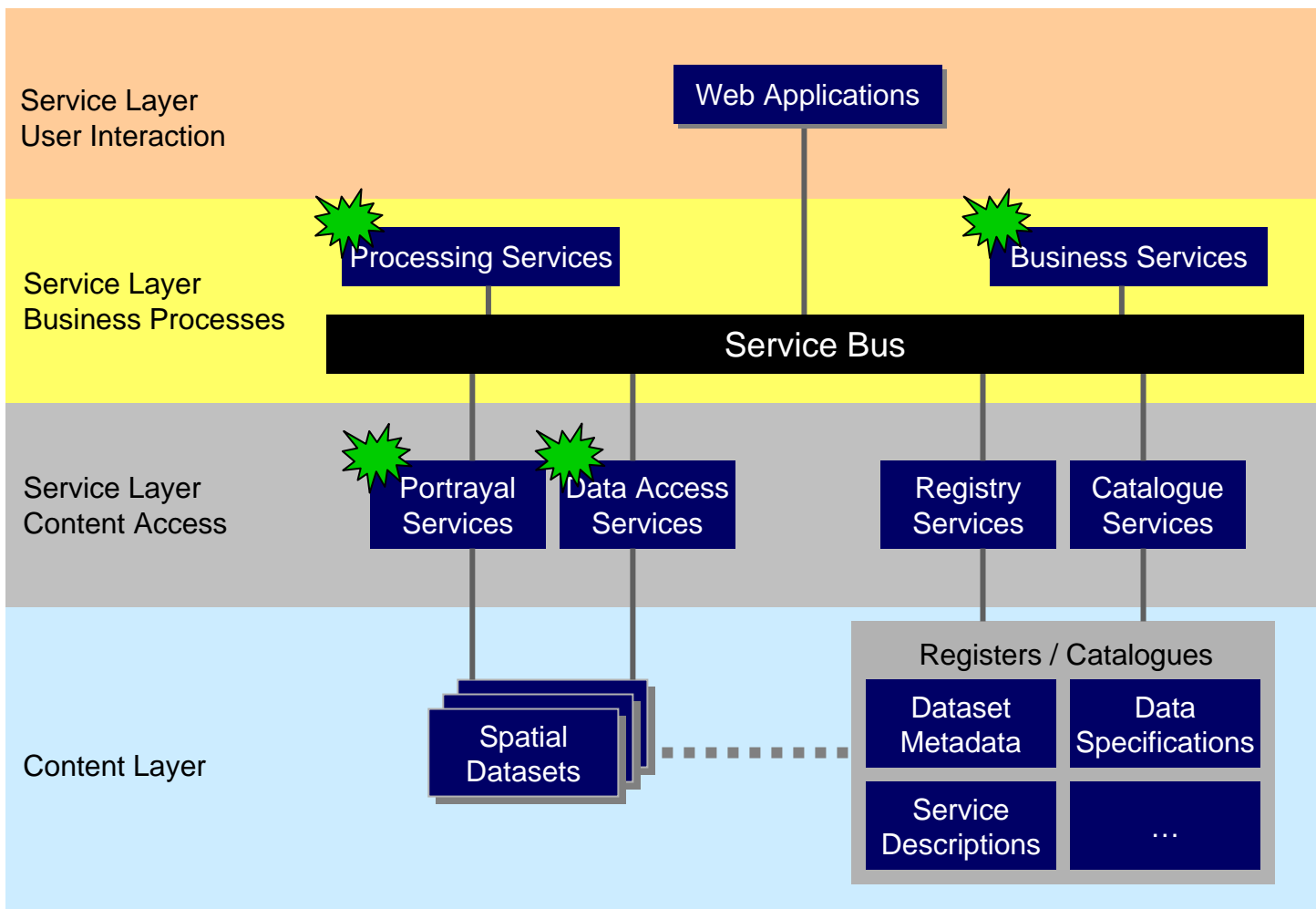
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## A Conceptual View of an SDI



## Existing Services in KMS

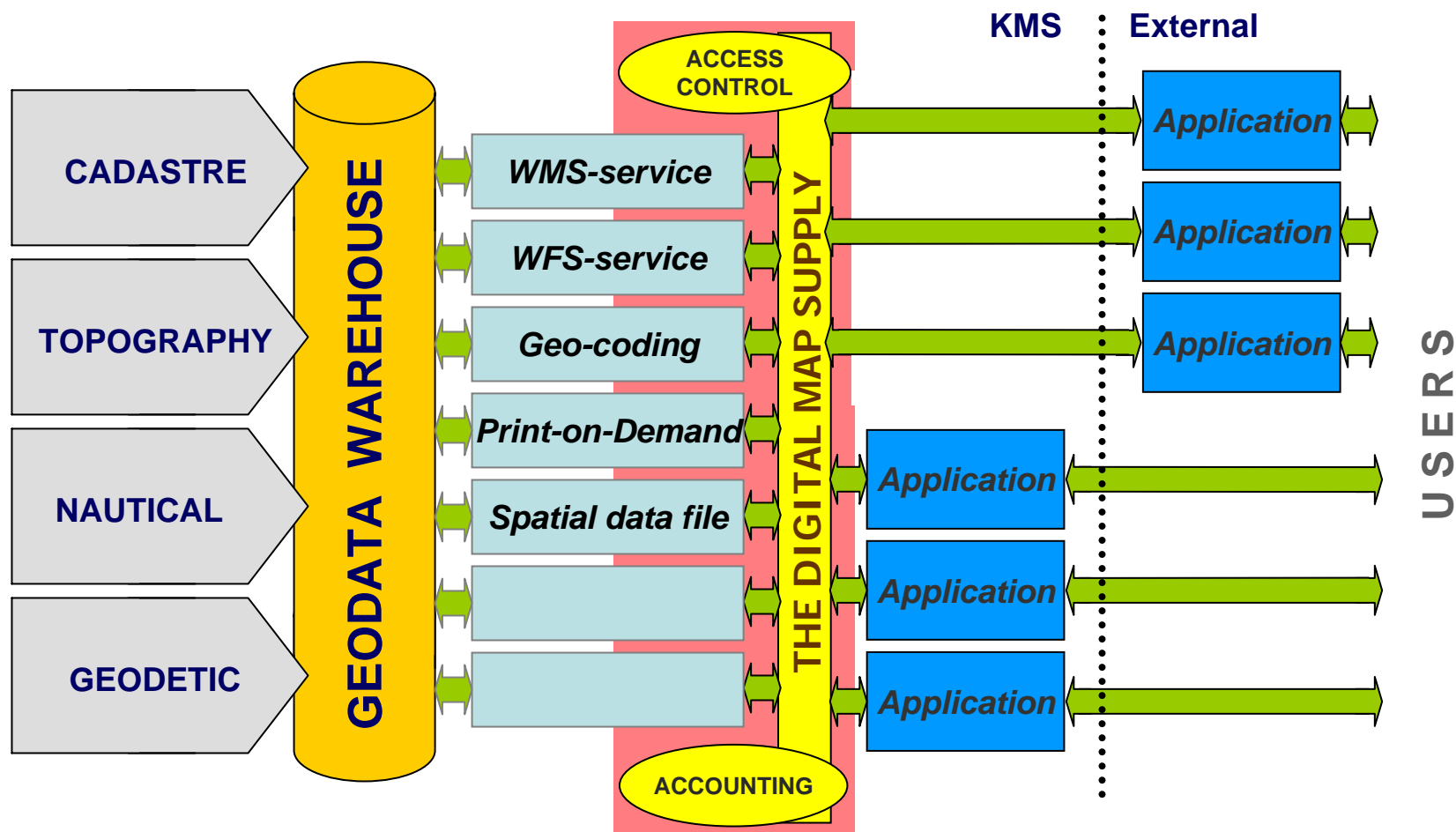




## The Digital Map Supply

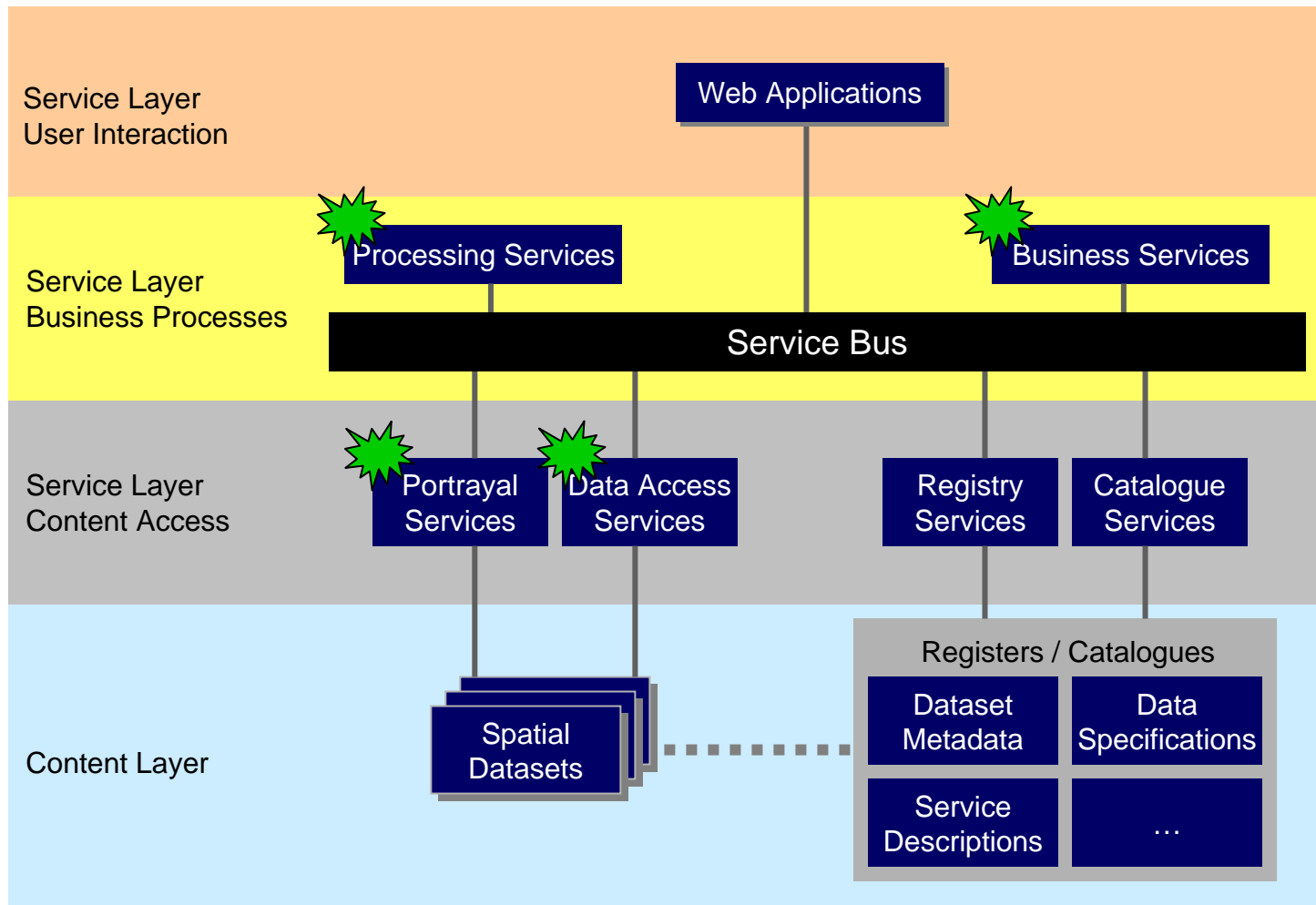
- The Digital Map Supply is the framework used by the National Mapping and Cadastre to share spatial information via the internet
- The Digital Map Supply addresses both technical and business issues for sharing
  - National Survey and Cadastre, Denmark – Focus Areas 2004
- Interface between the SDI and its utilization
- Launched in 2001 – in full service since 2002

## The Digital Map Supply – Data and Functionality

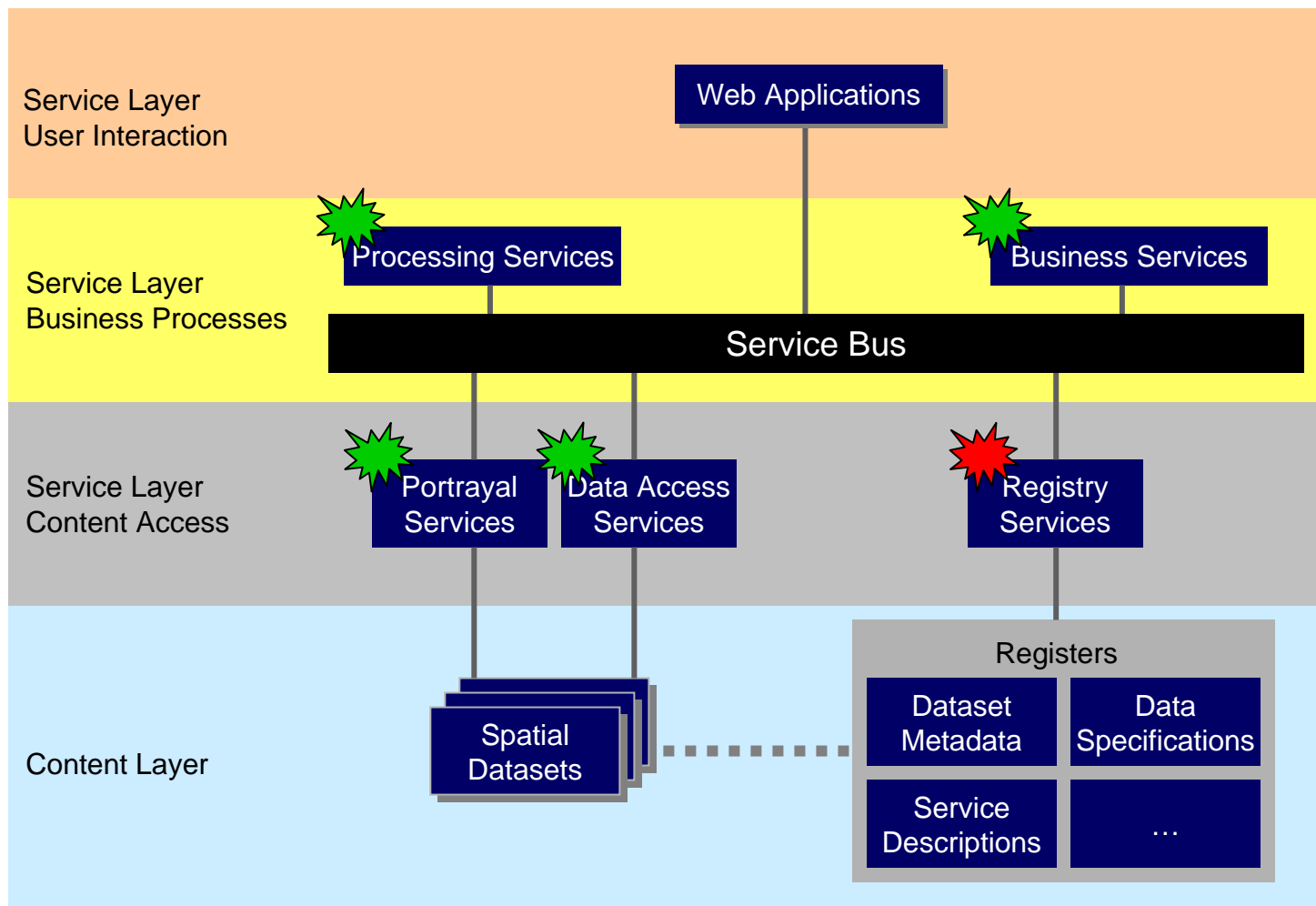




## Planned Services in KMS



## Planned Services in KMS





## Why Registers Instead of Catalogues?

- Initial attempt: Implement INSPIRE compliant metadata solution
- But
  - INSPIRE Implementing Rules not finished
  - INSPIRE Metadata Implementing Rules do not fulfill Danish requirements

 Investigate standards and their relations





## Catalogue vs. Register

- No formal definition of catalogue
- Register definition in 19135 does also apply to OGC CSW concepts
- Attempt of new definitions:

*catalog*

*set of metadata entities, which contain identifiers and descriptions of associated items*

*register*

*an authoritative catalogue*



## Catalogue vs. Register

- Registers require support of
  - well-defined registration processes
  - provenance and audit trail
  - versioning
  - security enforcement at several levels

 KMS requires registers



## Standards for Registry Services

- OGC CSW-ebRIM and OASIS/ISO ebXML RegRep
  - Both do not yet support all required functionality
  - Extension packages / ebXML RegRep profiles needed in any case
  - ebXML RegRep provides extension mechanisms while CSW does not explicitly



## But what about **INSPIRE**?

- Most likely CSW-ISO will be the choice
- JRC study on CSW interoperability
  - CSW-ISO can be simulated on top of CSW-ebRIM
- GEOSS registry
  - UDDI and CSW-ebRIM interfaces can be build on top of ebXML RegRep



## Further Comparison

- Spatial operators: ebXML allows support of *any* query language
  - OGC Filter?
  - But not necessarily needed: Stored queries
- ebXML allows integration into the general IT infrastructure
  - geospatial metadata can be made available in *any portal*
- ebXML RegRep is a Danish standard and recommended from the Danish eGovernment initiative
- ebXML RegRep products aiming at the geospatial community are available





## Summary

- KMS's part of the SDI will be governed by an ebXML RegRep
- In a first version, 'classical' metadata (19115/19119) will be registered
- Other types of resources will follow
- The INSPIRE interface will be provided, at least read-only
- All Danish data and service providers will have the possibility to register their resources as well