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 INSPIRE - Infrastructure for Spatial Information in Europe

**The INSPIRE  
EU GeoPortal**

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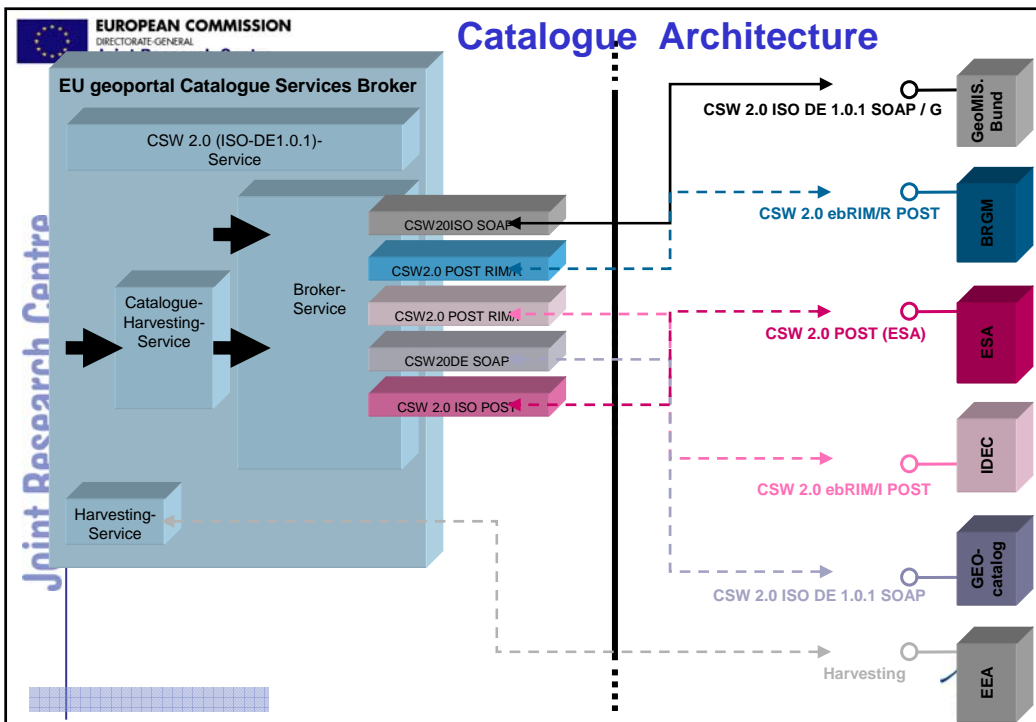
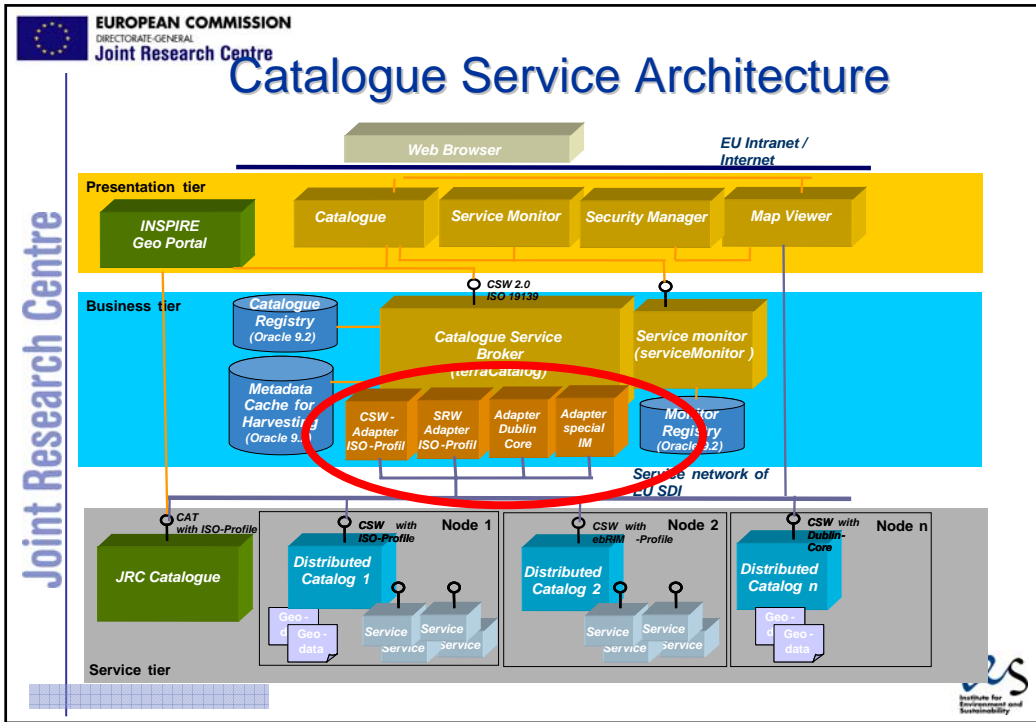
**The INSPIRE EU geoportal  
Metadata catalogue**

Provides:

- Access to distributed metadata catalogues, (incl. cascading catalogues)
  - Real time search
  - Harvesting/caching
- Interfaces compliant with the OGC CSW 2.0 catalogue service specification

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## OGC catalogue Specification Issues

- Implementations are not compliant at the OGCCORE level
- No standardised mapping from ISO AP to ebRIM and vice versa
- Specific adapters need to be implemented on a case by case basis
  - necessary to use ebRIM specific queryables
- Shortcomings in specification result in too many degrees of freedom in implementations

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## Impact (1)

### OGC Catalogue RWG (new release Feb 2007)

- interface improvements:
  - unambiguous definition of operation parameters;
    - clear definition of the relationship between typename, outputschema, elementsetname;
    - missing parameters like outputSchema of getRecordById added)
- definition of semantic, syntax and support (optional/mandatory) of core queryables
- definition of semantic, syntax and support of core return values
- more exact definition of workflows
- definition of http/xml (/SOAP) protocol binding
- revised capabilities to improve the description of supported features, e.g. provision of federated catalogues in the capabilities
- more examples.

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## Impact (2)

- Promotion of an OGC discussion to adopt ebRIM as the baseline meta-model for all OGC CS Web (CSW) implementations.
  - ebRIM becomes the preferred meta-model for future OGC CS-W Catalogue Application Profiles.
- CSW ISO Metadata Application Profile will not be deprecated. ISO and AP ebRIM AP groups shall collaborate and determine how to enable interoperability between the ISO and ebRIM Application Profiles.

## Impact (3)

### Impact on ISO/TC211

- An ISO/TC211 ad hoc group was established according to resolution 358 Catalogue services (unanimously approved at the ISO/TC 211 meeting in Riyadh).
  - The OGC/ISO Joint Advisory Group (JAG) also has to take the results into account.

# The INSPIRE geoportal International co-operation

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## GEOSS

- Clearinghouse
- Web portal

## Tri-lateral agreement

- FGDC
- Natural Resources Canada

The screenshot displays the INSPIRE geoportal interface. On the left, there is a 'Query' section with options for 'Quick search', 'Expert search', and 'Select catalogues'. Below this is a 'Your authentication' section with fields for 'Username' and 'Password', and buttons for 'Login now' and 'Forgot password?'. On the right, the 'Select catalogues' section shows a 'List of Federated catalogues' with a dropdown menu listing 'European Space Agency Collection Catalogue', 'Geoscientific Earth Observation Data Catalogue', 'Hazard maps catalogue (GeoHazData)', 'IDEC Support Center', and 'NASA Earth Science Gateway (ESG)'. Below this is a 'Search in catalogue' section with tabs for 'By title' and 'By category', and a list of services including 'CoG: OGCcatalog CS-W 2.0', 'BGM Catalogue of Geoscience data and services CSW 1.1.0', and 'Hazard maps catalogue (GeoHazData) CSW 2.0.0'. Each service entry has 'Add' and 'Details' buttons.