

*European Space Agency &  
Joint Research Centre  
WORKSHOP ON DISCOVERY SERVICES AND  
CATALOGUES*

*10/2005 - ESRIN, FRASCATI, ITALY*

Conclusions and Recommendations



# Scope & Presentations

- *Discovery Services*: requirements (INSPIRE), applicable standards, emerging IT commercial solutions, issues with current implementations
- Presentations
  - Overview on INSPIRE & HMA/GMES
  - National Implementations (Austria, France, Norway)
  - Pan-European and International Implementations & Experiences (EIONET, FAO, CEOS, SPOT)
  - Standards & Technology (CS-W, ISO 19115/19 Profile, EO Profile, UDDI/WSDL)

## ***Inputs from presenters worth stressing from an INSPIRE Network Services perspective (1)***

- With WMS we are almost done
- With Catalogue there are still many approaches
- Ordering and Selling and AAA (Authorization Authentication and Accounting) services do not yet follow a common set of standards
- DC and ISO19115 are widely accepted
- Links of service registries and data catalogues are still in an early stage (CS-W/UDDI)
- Most discovery services so far are centralized: a technical or an organizational problem ?

## ***Inputs from presenters worth stressing from an INSPIRE Network Services perspective (2)***

- Redesign OGC (Web) Services to be also more suited for machine-to-machine as well as for machine-user interaction (e.g. use SOAP/WSDL)
- Organize and define service taxonomies (e.g. UDDI-3)
- Systematic use of thesaurus/I (e.g. GEMET) and gazetteer (e.g. WFS-G)
- Z39.50/GEO is not adequate for today's discovery requirements.
- Choose ONE base profile, simplify where possible

# *Conclusions/Recommendations (1)*

- Specific domains still have individual requirements, but discovery should be kept interoperable by making profile of profiles (e.g. for ESA EO profile?)
- 2 not yet interoperable ways of Cataloguing services UDDI **versus** OGC CS-W 19119, work to be done
- Standards & SW-development should take multilingualism more into account
  - Multilingualism granularity
  - Character set (e.g. ü, ö, ...)
- Need a compliance test tool/suite

## *Next Steps*

- Prove interoperability of various OGC CS-W Implementations:
- Implement a common pilot between communities of different domains (volunteers: Norway-NMA, ESA ...):
  - Define use-case and scenarios
  - Pick-up directions where stakeholder are willing to invest (&share)
  - No need to have the INSPIRE profile straight away as spec's or interoperability requirements should be maintainable and updateable and it works as long as there are no major deviations.