Why CSW INSPIRE compliant services are important for the development of real market applications
• Catalogue Service for the Web
• Let’s build an INSPIRE app
• How to keep it working?
• Conclusions
Catalogue Service for the Web

Catalogue services support the ability to publish and search collections of descriptive information (metadata) for data, services, and related information objects. (OGC)
Operations with CSW

- OGC Service
  - GetCapabilities
  - GetRecordById

- Discovery
  - GetRecords
  - GetDomain

- Manager
  - Transaction
  - Harvest
Operations with CSW

- **GetCapabilities**
  - Operation to get the capabilities of the Service and the metadata of the Service. How it works, version, etc.

- **GetRecordById**
  - Operation to get the metadata of a specific register. It is necessary to know the ID of the register.

- **GetRecords**
  - Operation to get a list of registers that match specific conditions. Here we can get the records’ ID.
Let’s build an INSPIRE App

1. Territory analysis
2. Connect to 35 web services (WMS,WFS)
3. 3 different scenarios, with different needs
4. 105 connections to web services
5. Different data providers (7,200 in Europe)
1. Never change the URL of the Spatial Data Services. URL shall never reflect the internal changes of the organization

2. Do not change the name of the layers, unless there are really powerful reasons to do it. For sure there are projects that invoke them.

3. Offer a really stable and operating Service. Reduce maintenance stops and make them short.

   Because there is not a second chance for a non working spatial data Service.
Spatial Data Services are dynamic

- URL
- Authorization
- Versions
- Style
- Licenses

5-15% of monthly changes
How can we keep it working?

Without CSW

1. SDS
2. APP
3. Failure
   Missing data
4. Manual correction
5. APP
How can we keep it working?

With CSW

CSW → APP

Track changes

Apply
- Automatic
- Needs approval

APP
Conclusions

- CSW is needed to develop professional, up-to-date, easy to maintain and high availability applications
- Direct links to SDS are not enough
- Data providers should inform about all changes through catalogues
- There is not an easy way to discover new versions and relevant datasets
- CSW is not only for discovery applications, it is for develop production geo-applications as well
Thanks!

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