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nstitut Cartogràfic

FOSS4G 2010 Barcelona SEP 6<sup>th</sup>-9<sup>th</sup>

CREAF UAS

### MiraMon Map Browser and CatalogConnector. Differential characteristics and functionalities, and the experience releasing them in *forge like* portals

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# Introduction

- This communication presents 2 open source initiatives
  - That deals with geospatial information in Internet
  - That are clients of OGC standardized services
  - That were made available in a *forge like* portals
  - That are Catalan based.
- We will present both products and will analyze their experience as Open Source projects.





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### MiraMon Map Browser



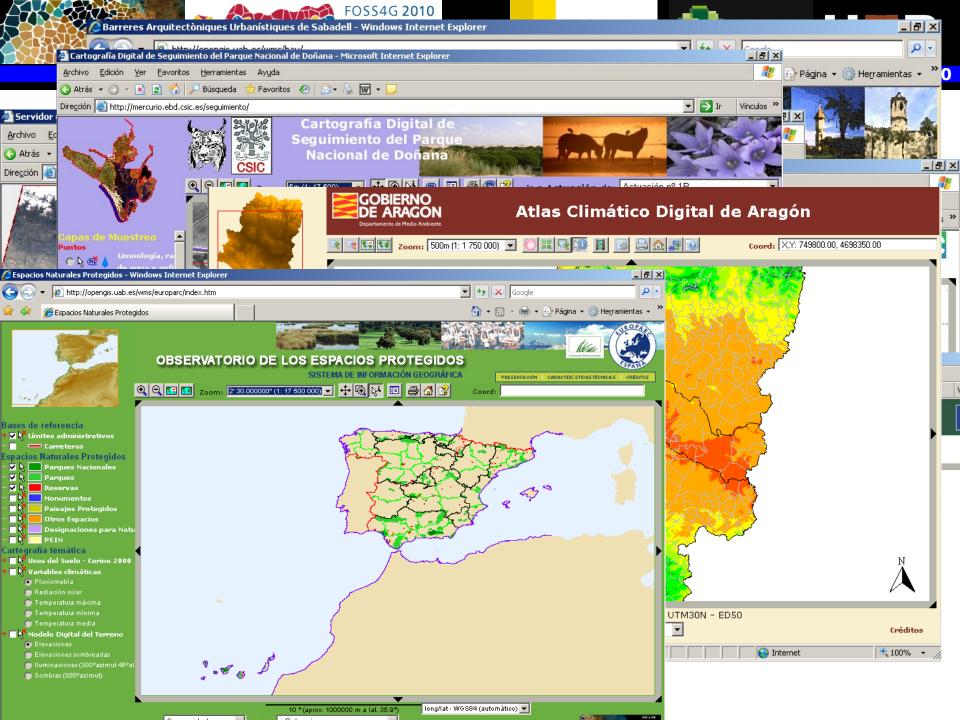
## What is MiraMon Map Browser

- MiraMon Map Browser is a web map tool
  - Map publishers can implement their personalized web map portals
  - Connects to server that are compatibles with: WMS, WMTS, WFS and WCS OGC standards
    - adding our own ideas as new requests and functionalities
  - It is implemented in JavaScript and HTML using AJAX paradigm



# That makes MiraMon Map Browser different

- Support to tiling: WMS-C and WMTS (and WMS)
- Integration of WCS as a download service
- Integration of WFS as data source that can be rendered directly on the browser and as data creation platform using WFS-T
- Integration of the MiraMon Compressed Map format (MMZ) that allows downloading several coverages and feature types, with metadata and databases, in a single file.
- Locating a specific object within the navigation area through selecting one or more attribute values
- Time and other dimensions support. Animations of time series for visual analysis
- Automatic projection selection for dispersed areas (e.g. Alaska, Hawaii, etc in the USA case)
- Multilingual: Catalan, Spanish and English







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# CatalogConnector



## What is CatalogConnector

- CatalogConnector
  - Addresses the problem that the existence of several geospatial catalogue standards and profiles makes difficult to have a universal client
  - It is a Java servlet application that sends requests to several OGC CSW catalogues, processes the responses and shows them in a unitary way.



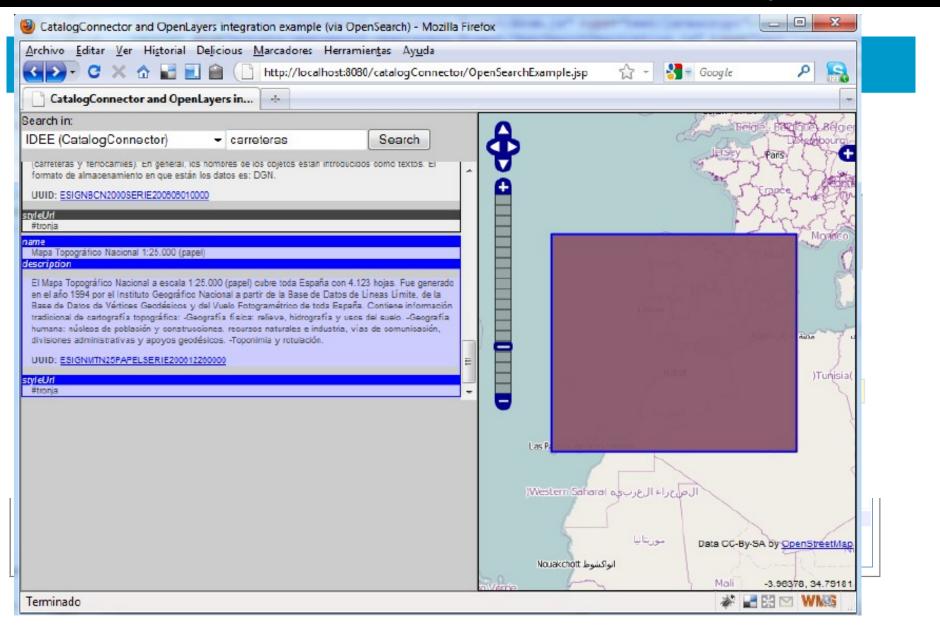
# That makes CatalogueConnector different

- Supports different CSW versions (2.0.0, 2.0.1, 2.0.2) and application profile implementations (ebRIM and ISO)
- Implements OpenSearch-Geo interface
- Very easy to extend to new CSW implementations or to generic services based on XML HTTP-POST
- Oriented to CSW vendor implementations. Supports several products such as: GeoNetwork, exCat, Geomedia, Indicio, catalogCube, conTerra, ESRI GPT, Deegree, inGrid
- New products can be very easily added using an administrative tool





# 







September 8th, 2010

## **Experience In Open Source**

- MiraMon Map Browser
  - Languages:
    - User prospective:
      - Catalan, Spanish and English
    - Developer prospective:
      - Catalan
      - Documentation, comments, code
  - Open source dissemination portal
    - La Farga (www.lafarga.cat)
      - It is a Catalan government replica of the *SourceForce* that can help the administration and the general public.

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# La Farga

- Catalan Portal to foster Open Source and Open Standards
- Promoted by the Catalan Government
  - Secretariat of Telecommunications and Information Society (Secretaria de Telecomunicacions i Societat de la Informació (STSI))
    - Technical Office for Open Source (Oficina Tècnica de Programari Lliure (OTPL))
      - Since 2004.







## **Experience In Open Source**

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- CatalogConnector
  - Languages:
    - User prospective:
      - Catalan, Spanish and English
    - Developer prospective:
      - English
      - Documentation, comments, code
  - Open source dissemination portal
    - SourceForge

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### CatalogConnector latest downloads top ten countries

DOWNLOADS 370 In the selected date range
TOP COUNTRY United States 18% of downloaders
TOP OS Windows 69% of downloaders

	Country +	Downloads *
1.	United States	67
2.	Colombia	67
З.	Spain	29
4.	Germany	23
5.	Italy	20
6.	United Kingdom	19
7.	Ecuador	18
8.	Brazil	13
9.	Unknown	12
10.	Canada	10
11.	France	8





# Analysis and Conclusions (1/2)

- English language is an important factor for the success of the OpenSource projects
  - Do it in English from the begining!
- Regional portals (like La Farga, la forja de Andalucia) are too local to get the needed critical mass to engage the community in a dynamic Open Source project
  - Use SourceForge!
  - Federated portals like OSOR (www.osor.eu) can help



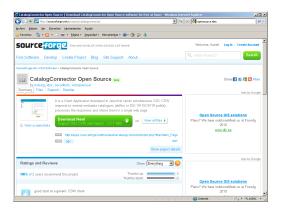


September 8th, 2010

# Analysis and Conclusions (2/2)

- Focus on a problem that is not solved
  - If it was solved, extend the preexisting project!
- To create a community is a dream. Only the best can do that
  - You will do most of the work alone
- Maintain a site project takes time
  - Reserve some money/time to do that!











September 8th, 2010

## Thanks!



