

Spatial Data Infrastructure of Catalonia News

New version of IDEC geoportal

The **geoportal** is the gateway to the IDEC, and its services are the first and basic tools to understand and use the infrastructure. It has become more usable, easier and well structured. The new version 3 represents a change in the approach of the objectives of CS IDEC, which put such emphasis on the end user and their needs, going to be focusing on suppliers to be so in the users of its resources.

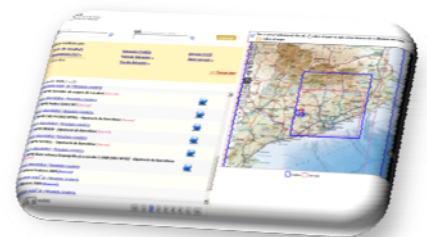
The basic tool of the IDE is the **Catalog**, which has been sought as an easy, intuitive, rapid response and consistent behaviour. We want that the geoinformation's search be a simple operation, with predefined filters, linked to visualization of described data in the metadata. To provide information services available by services metadata but also their availability and response time.

The **map viewer** is thought as a tool to visualize the described data in metadata, so it's not only a complement of the Catalog, but an autonomous tool, easy and intuitive application.

To make possible the knowledge of the many geoinformation (layers) resources available on the network IDEC, the CS IDEC has prepared several thematic geoportals, each one with a limited number of selected layers and related to specific theme.

Finally, it's important to mention a new component of IDEC resources: the **Platform Resources of Geoinformation**.

Catalogue access



Map viewer acces



Interesting links

- [Geoportal IDEC Local](#)
- [Geoportal IDE Univers](#)
- [OGC](#)
- [INSPIRE](#)
- [MetaD 3.0.5](#)
- [ICC](#)
- [Consorti AOC](#)

New contents in the geoportal

It emphasizes, for its innovation, the section of **thematic's geoportals** and the **Platform Resources of Geoinformation (PRG)**, which are explained forward.

In addition, some sections have been restructured and refined, for example the documentation, links, SDI's information and information about the IDEC. In the same left frame there are a quick start guide and a section explaining the innovation features of version 3.

The IDEC Local initiative is distinguished from other sectoral IDEs. This initiative has been included in the new section of local initiatives that refers to the IDEC Local and other local initiatives such as SDI Barcelona, BCN geoportal, the AMB geoportal, etc.

Thematic geoportals

There is a network with 150 servers, 280 services, 5 000 layers of geoinformation... resources which are available to use and operate.

Now it's necessary to produce innovative products and services to demonstrate the value of the resources of the infrastructure. And finally to make real the benefits that, from a logical and theoretical perspective, have been estimated as a result of existence of SDI resources.

To start the process, some geoportals have been created from the WMS configured services by different local and general administrations, and public and private organization. Each geoportal contains the layers classified on themes which generate different geoportals with specific thematic content. The thematic geoportals easy, fast and effective should make consultation of geoinformation within the IDEC network.

The available geoportals are:

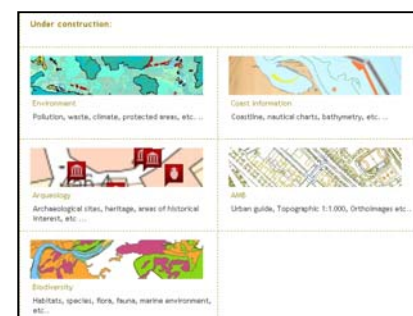
- Urbanism and land ownership.
- Infrastructure.
- Municipal information.
- Geology.
- Entertainment and Leisure.

And in preparation:

- Coastal.
- Archaeology.
- Socioeconomic information of Metropolitans Barcelona Area.
- Environment and Nature.
- Biodiversity.

Applications based in a distributed database system are a challenge. It's obvious that the system behaviour depends on every geoinformation servers that comprise it.

Users must be aware that maintaining a 98 % reliability, distributed services is not easy in the short period. But the CS IDEC will work in the good functionality of all servers to guarantee the services.



Geoinformation Resources Platform

To make data accessible via an Internet portal is interesting and necessary but not sufficient. Geospatial Web services are needed. A platform where fully interoperable, distributed geoservices website, acting as the backbone for web applications that use, combine and merge data and services available in the SDI network has been set up.

A store where users can find the applications and providers can share or sell their products is needed.

Now, IDEC has more of 5000 layers of geoinformation, which are served of around of 250 services. The platform offers:

- A kit of tools to create applications:
 - o Thematic cartography editor (features).
 - o WMS servers editor.
 - o Thematic maps editor.
 - o Geoencoder.



- A kit of easy customizable applications:
 - o Configuration displays.
 - o Embeddable version of the Viewer.
 - o Maintenance of local facilities.
 - o Maintenance data for Civil Protection.
 - o Creating thematic maps.



Initially, the use of this resource, which has its origin in the set of designed services to provide certain services to local authorities through the IDEC Local initiative (led by the AOC Consortium in collaboration with ICC), will be restricted to public administration and its organizations. But in the future, it will be extended to ONG, association and other public and private entities.

New version of Metadata Catalog

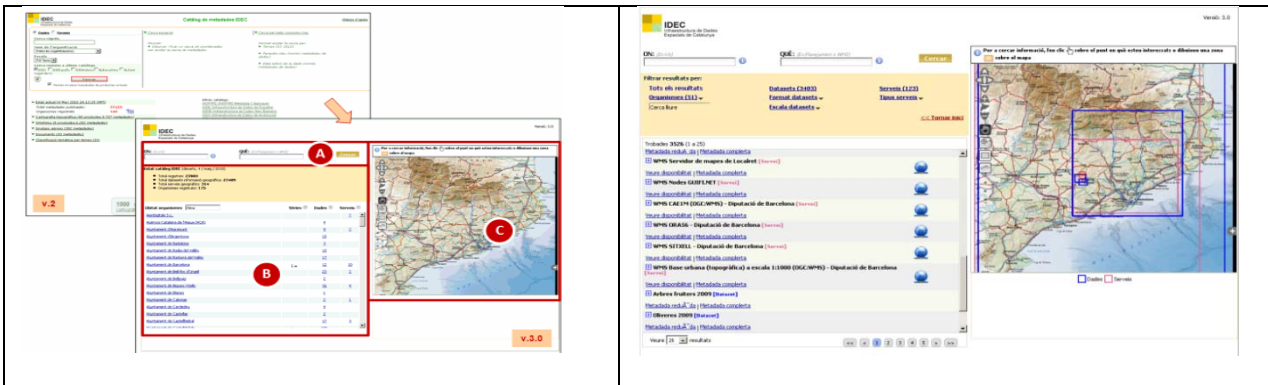
The response time of queries has significantly improved. Also, it has improved the relationship between the viewer and the viewer and the catalog.

The new application consists of three blocks in order to display information about the catalog contents and doing easier your search.

- A.** Two search boxes, a search for **place names**, which allows locating all the metadata that contained in a particular geographical area and other search box for **keywords**, which allows locating the textual information contained in the metadata.
- B.** A list that displays all organizations and their total of metadata identifying the typology of metadata: data, series and services.
- C.** A map can graphically locate metadata from a specific point or area.

The map has a double functionality: to show the geographic area of searched metadata and to allow the graphic search with a point or an area on the map. For example, the user can navigate by the map until an interest zone, and after to do a click with the mouse, which will open the map. This process will visualize all information from the catalog of the selected zone.

After the search is possible **to make different filters on the results**: by organisms, metadata typology, scale, format, services typology and free texts of the metadata contents.



Other particularities

When you can access a **download service of data**, this icon appears:



When it relates of services metadata, if there OGC: WMS services available, its layers can be viewed by clicking on the icon:



There is a new option in the services metadata: the reliability, which indicates if the server is active and its performance.

New version of Viewer

The improvements have been focused in increase the speed visualization of the geoinformation, in to offer an easier user's interface and finally in integrate the map viewer into the catalog.

The search box offers four options:

- **Streets:** Near the postal addresses of the Government of Catalonia.
- **Geo Names:** The search is performed on the geo names 1:5 000 and 1:50 000 in Catalonia, with over 152 000 geo names.
- **Cadastral Reference:** Search for cadastral reference (urban and rural) in the Direcció General de Catastro.

And, more:

Maps (specific thematic): It is based on the metadata catalog search of the text that the user has written into the box search, offered as a results the set of service's metadata for that the user select that is be more convenient, add new external layers of geoinformation at the map viewer.

It's possible to save the view to recover it in further sessions.

