From Map Libraries to Internet Catalogs

Barcelona, 18 April 2012.

IDEC
Infraestructura de Dades Espacials de Catalunya

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A quick look at the Catalan SDI (IDEC)

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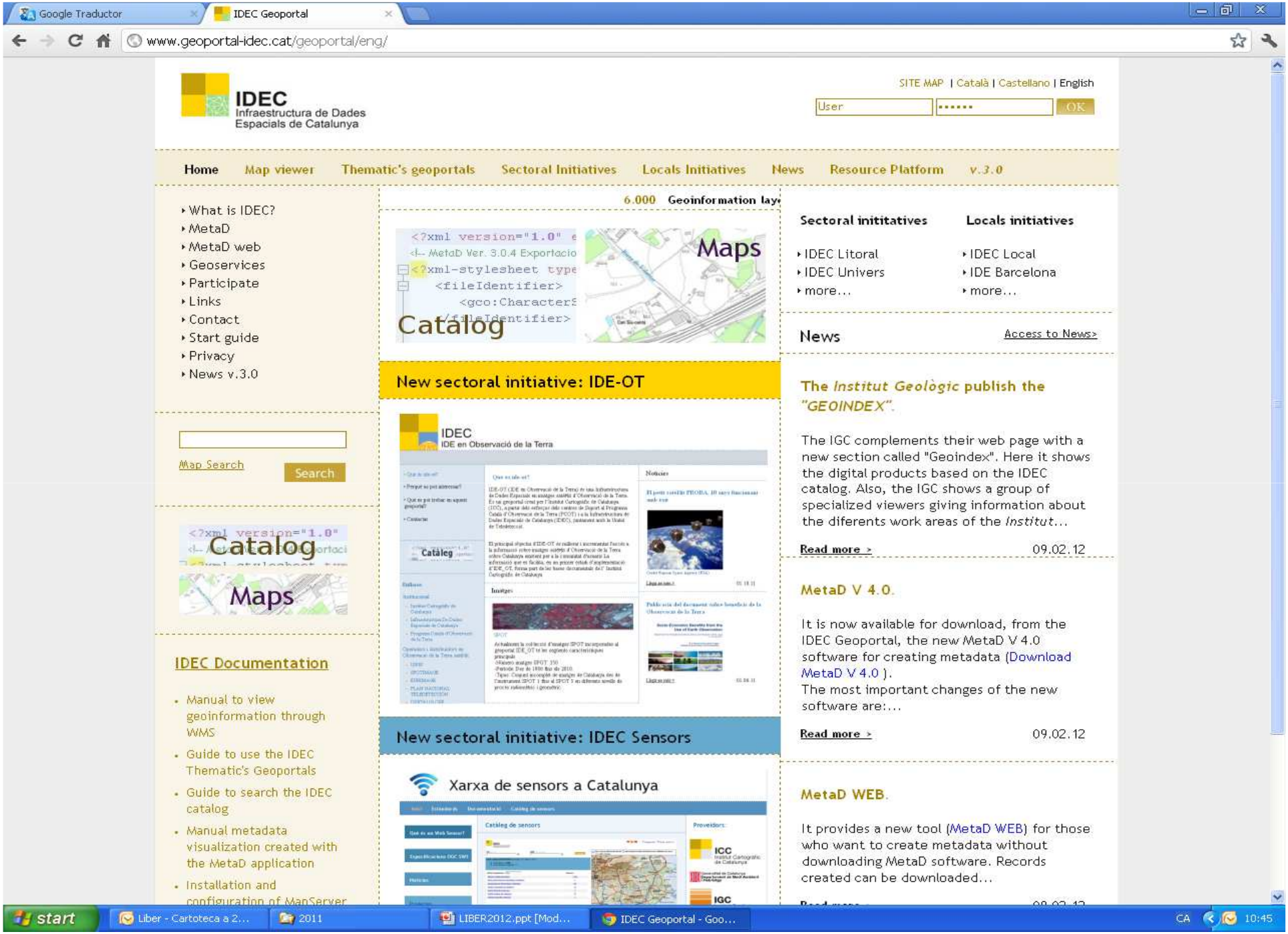
Sharing data and information: the new paradigm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New sectoral initiative: IDE-OT
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The Institut Geològic publish the "GEOINDEX".
The IGC complements their web page with a new section called "Geoindex". Here it shows the digital products based on the IDEC catalog. Also, the IGC shows a group of specialized viewers giving information about the diferents work areas of the Institut...
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Map Search
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Manual to view geoinformation through WMS
Guide to use the IDEC Thematic's Geoportals
Guide to search the IDEC catalog
Manual metadata visualization created with the MetaD application
Installation and configuration of MapServer
MetaD V 4.0.
It is now available for download, from the IDEC Geoportal, the new MetaD V 4.0 software for creating metadata (Download MetaD V 4.0).
The most important changes of the new software are:...
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New sectoral initiative: IDEC Sensors
Xarxa de sensors a Catalunya
MetaD WEB.
It provides a new tool (MetaD WEB) for those who want to create metadata without downloading MetaD software. Records created can be downloaded...
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Current assets and resources

A **NETWORK** of **180 providers, 100 servers, 500 services, 7.500 layers**

A **CATALOG** with:

42.000 *(catalan, 38.000 spanish, 36.000 english)*	Registers of data metadata *(end 2011)*
474 *(catalan, 476 spanish, 458 english)*	Services metadata registers
162	Data metadata providers
170	Services metadata providers

Acceded by **9.500 visits** / year

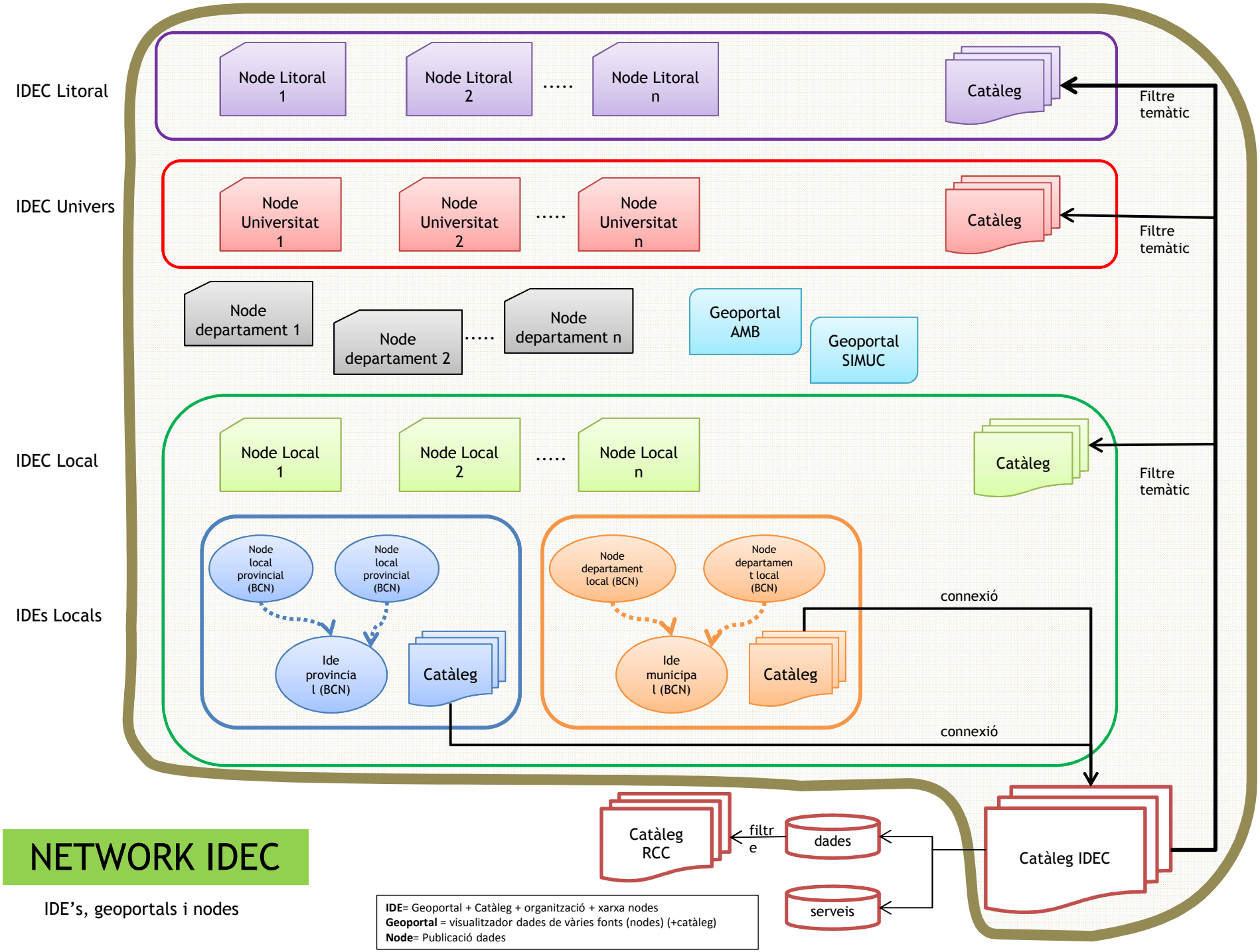
FREE ACCESS to:

474	Services
7.500	Layers *(4.000 from local entities)*

Acceded by **300.000 visits** / year using IDEC Visualization Services

Complementary SERVICES:

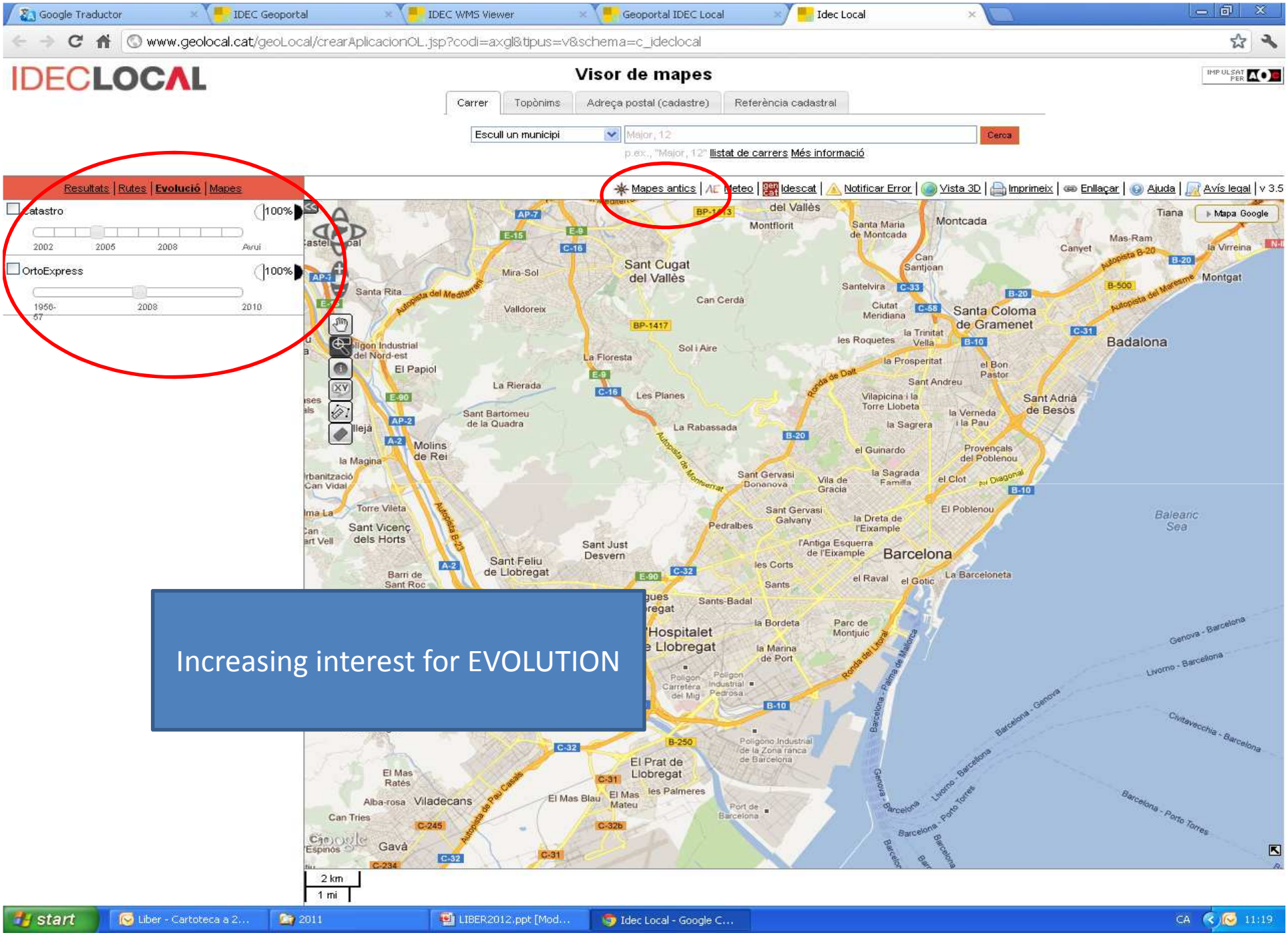
Applications: Viewers, editors, WFS editor, Thematic builder, ...



NETWORK IDEC

IDE's, geoportals i nodes

IDE= Geoportal + Catàleg + organització + xarxa nodes
Geoportal = visualitzador dades de vàries fonts (nodes) (+catàleg)
Node= Publicació dades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Common features

Similar objectives:

To facilitate the search, discovery and use (consult, copy)

by means of classification methodologies and Catalogs

Strong in Map Libraries

Strong in SDI's

Product description

by means of Metadata

To disseminate geographic knowledge

SDI: Through Internet, usign WMServices. Mainly oriented to geomanagement

Map Libraries: more physical contact & user presence

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Some differences

SDI: Functionilites are centered in the Catalog:

The way to search and discover, to analyse data product, to view and/or download data (links to the providers).
Better usability and facilities (search by text, keyword, bounding box, etc.)

Other servicies are available: Web Processing Services

Interoperability is on the focus

Geoinformation is distributed in the network, at some clicks to the user

Map Libraries: Functcionalites are centered on the storage of products

Preservation is important

More focused to research activities

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What to learn each other

SDI's:

How to better catalogue
Promote the digital preservation
Reinforce the usefulness of historic geoinformation

Map Libraries:

Internet publication, Catalog services
Easier and quicker acces to the documents (digitalisation)

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Preserving digital history: SDI contribution

- Preservation of the past (Map Libraries)

- Preservation of the present, for the future (SDI's?)
  - Every provider is responsible for its data
  - Databases and WebFeatureServices can store data and cause of modifications on the maps. So we would be able to "rebuild" a map in a specific date.
  - INSPIRE data models include fields to manage with changes
  - Connection SDI-Map Libraries

Feature versioning

Date: 2008-01-01. Insertion of a new Building feature

1. A Building feature with business ID 1 is inserted in the data repository. The business ID uniquely identifies the feature instance. All version of this feature share the same business ID. Note that the database ID can be and usually is different than the business ID. There can be an arbitrary number of additional feature properties but for simplicity

Build
Oper
Versi

Date: 2008-02-20. Modification of the Building feature

2. A modification in the Building feature leads to the creation of a new feature ve
feature version is assigned the current date as its end date. The new feature vers
previous one in the role of the current feature version for Building feature with b
is indicated via a null end date.

Building (business ID = 1)

Operation: INSERT

Version start date: 2008-01-01 Version end date: 2008-02-20

Building (business ID = 1)

Operation: UPDATE

Version start date: 2008-02-20

Date: 2008-05-25. The Building feature is modified again

3. The same approach is taken as in the previous step 2. This leads to three feature versions being available for this feature instance, two historic and one current.

Building (business ID = 1)

Operation: INSERT

Version start date: 2008-01-01 Version end date: 2008-02-20

Building (business ID = 1)

25

Date: 2008-07-31. The building is torn down and this change needs to be reflected in the data.

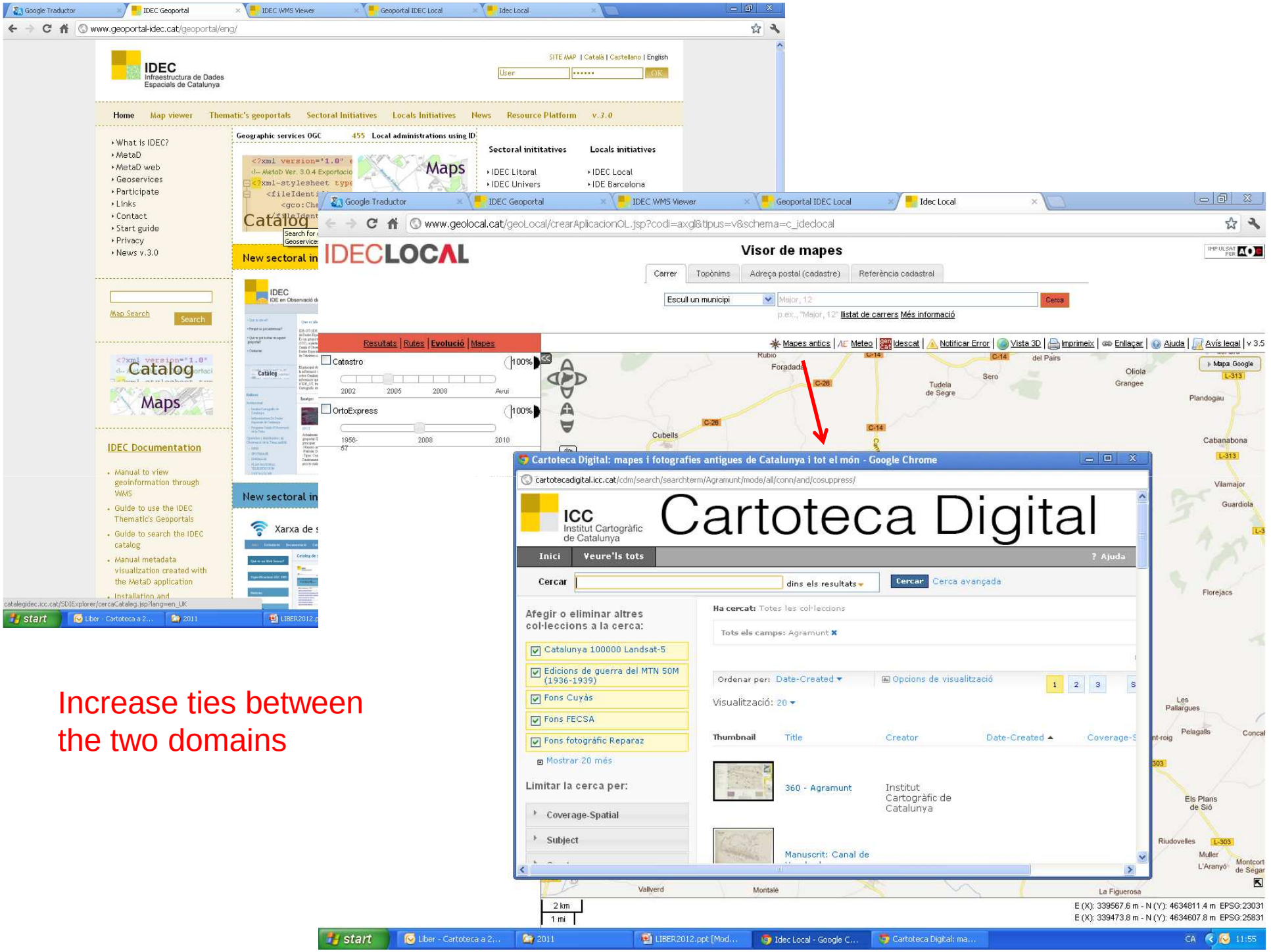
4. The same approach is taken as in the previous steps 2 and 3 except that the Operation field is set to DELETE. Deleting the feature instance would not make sense because it would delete all records of its existence. Therefore, a feature deletion is similar to a data update.

Building (business ID = 1)
Operation: INSERT
Version start date: 2008-01-01 Version end date: 2008-02-20

Building (business ID = 1)
Operation: UPDATE
Version start date: 2008-02-20 Version end date: 2008-05-25

Building (business ID = 1)
Operation: UPDATE
Version start date: 2008-05-25 Version end date: 2008-07-31

Building (business ID = 1)
Operation: DELETE
Version start date: 2008-07-31 Version end date: null



Increase ties between the two domains

Gracias

http://www.geoportal-idec.cat/geoportal/cas/