Catalan SDI as an engine for public sector innovation

Experiences
Opinions
Suggestions
from Catalonia SDI

Brussels, 1th desember 2011.

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Content

Evolution and current situation of IDEC

Impact: users, uses, impact

Contribution to innovation

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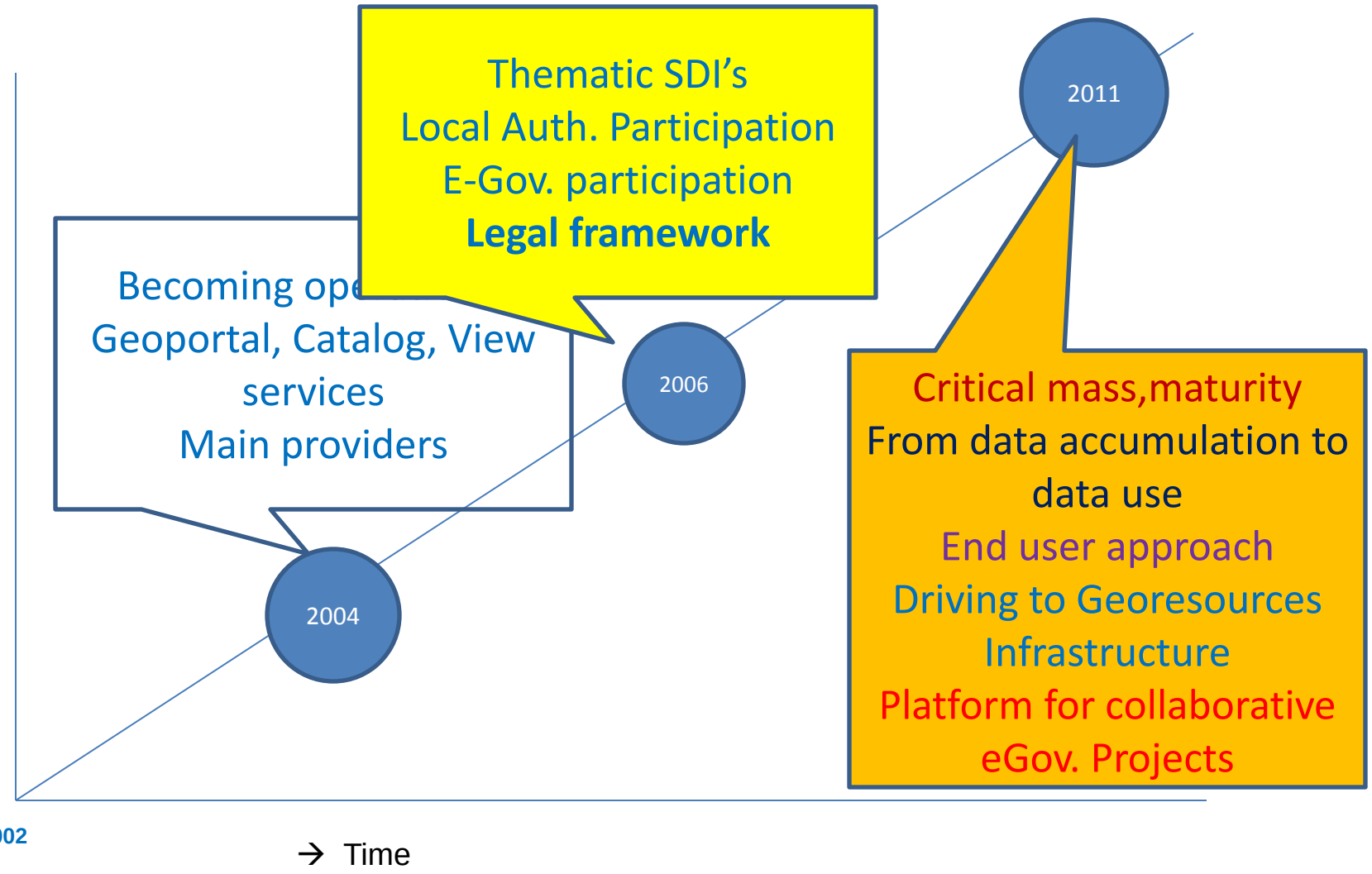
Evolution



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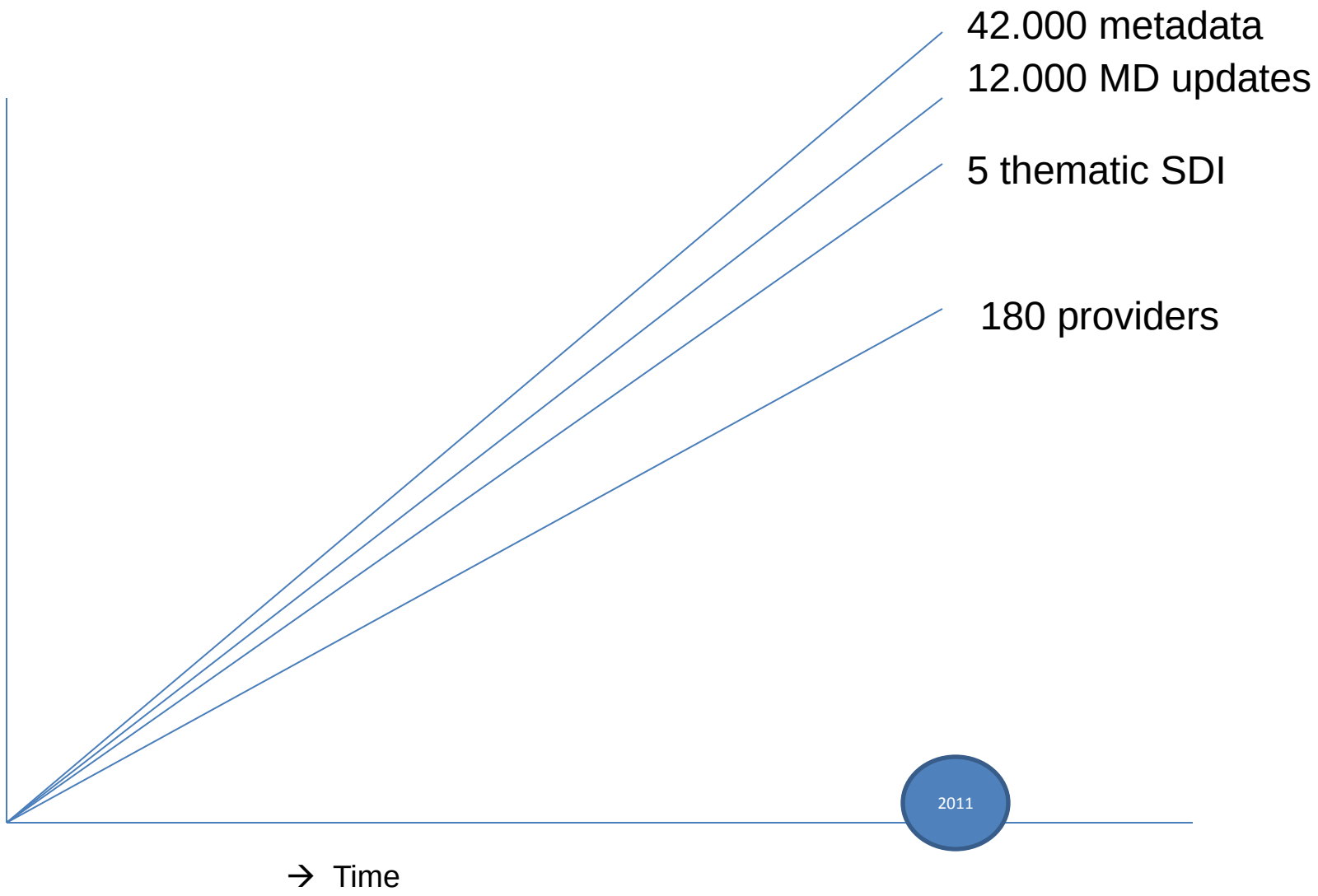
Evolution



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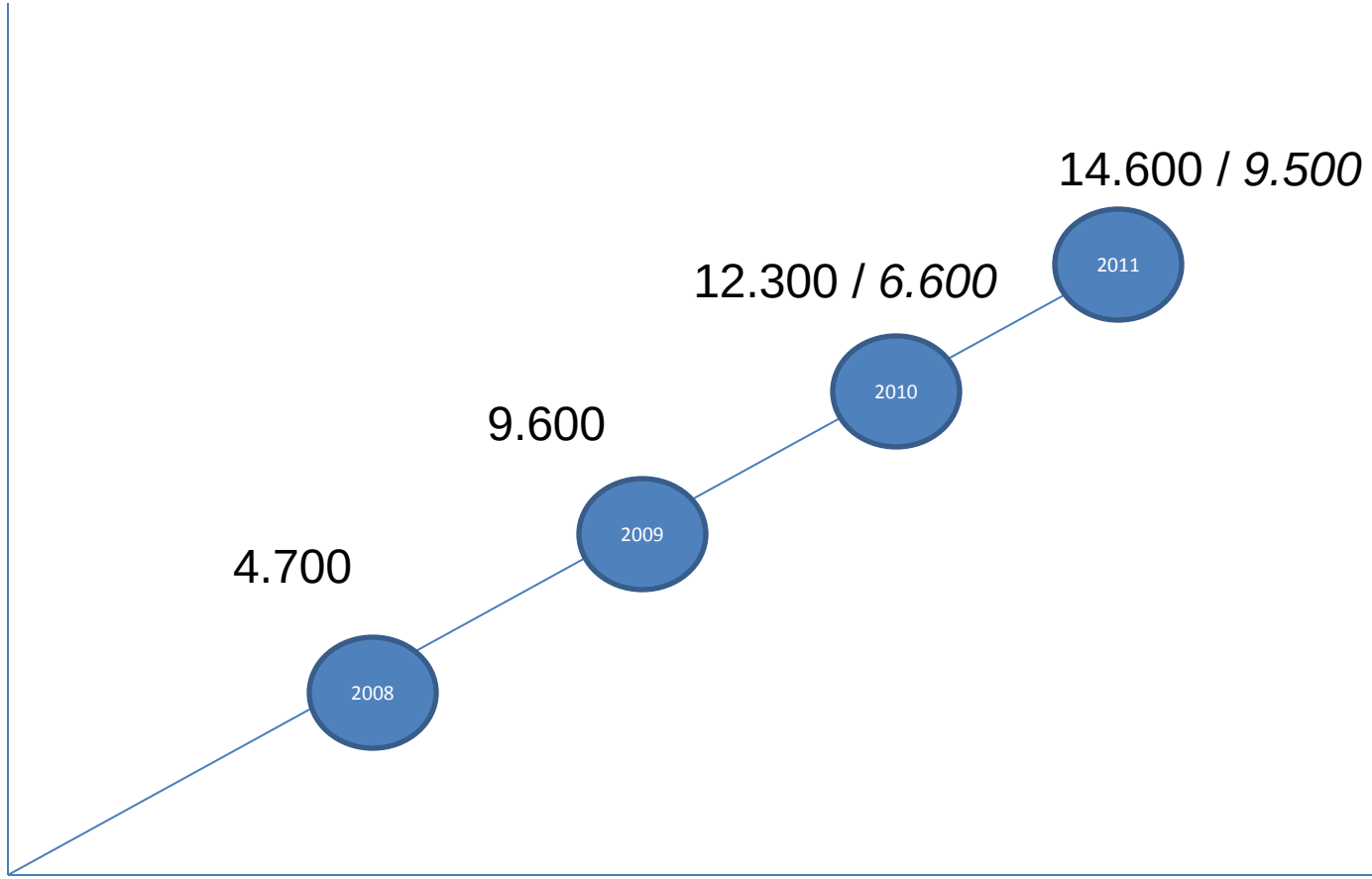
Catalog Accesses

Number of pages/*visits*: (a measure of usefulness)



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Layers Access

Statistics October 2011: (from analysis of access controled by IDEC)

600 layers accessed

7.600 visits

Most frequently visited layers:

Cadastre
Urban Plans
Touristic routes
Public Facilities
Topographic 1/1000

With thousands of monthly accesses and downloads directly to the main providers of WMS data services:

ex. ICC → 130.000 visits, 56.000 downloads

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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

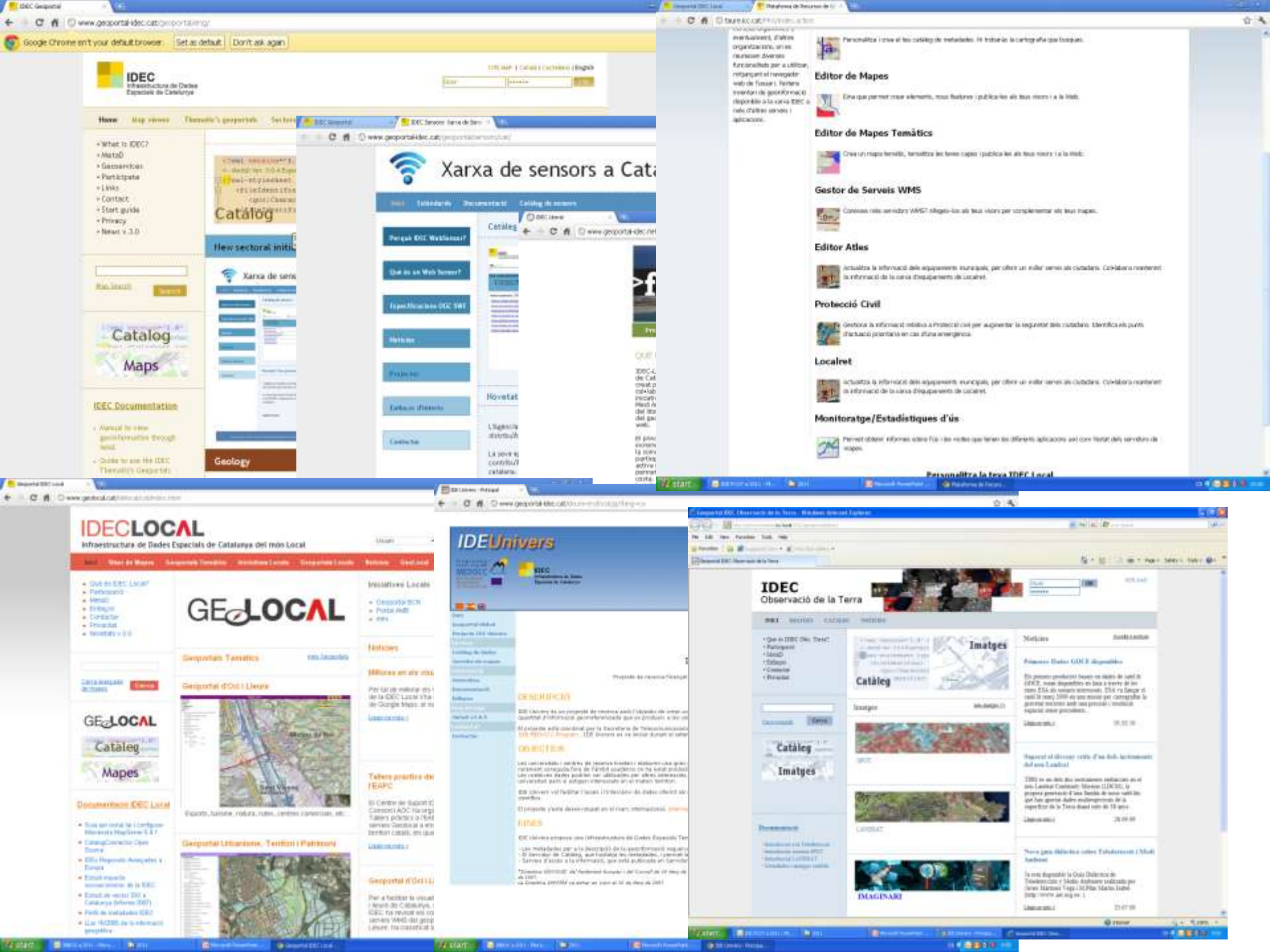
Acceded by **9.500 visits** / year

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, ...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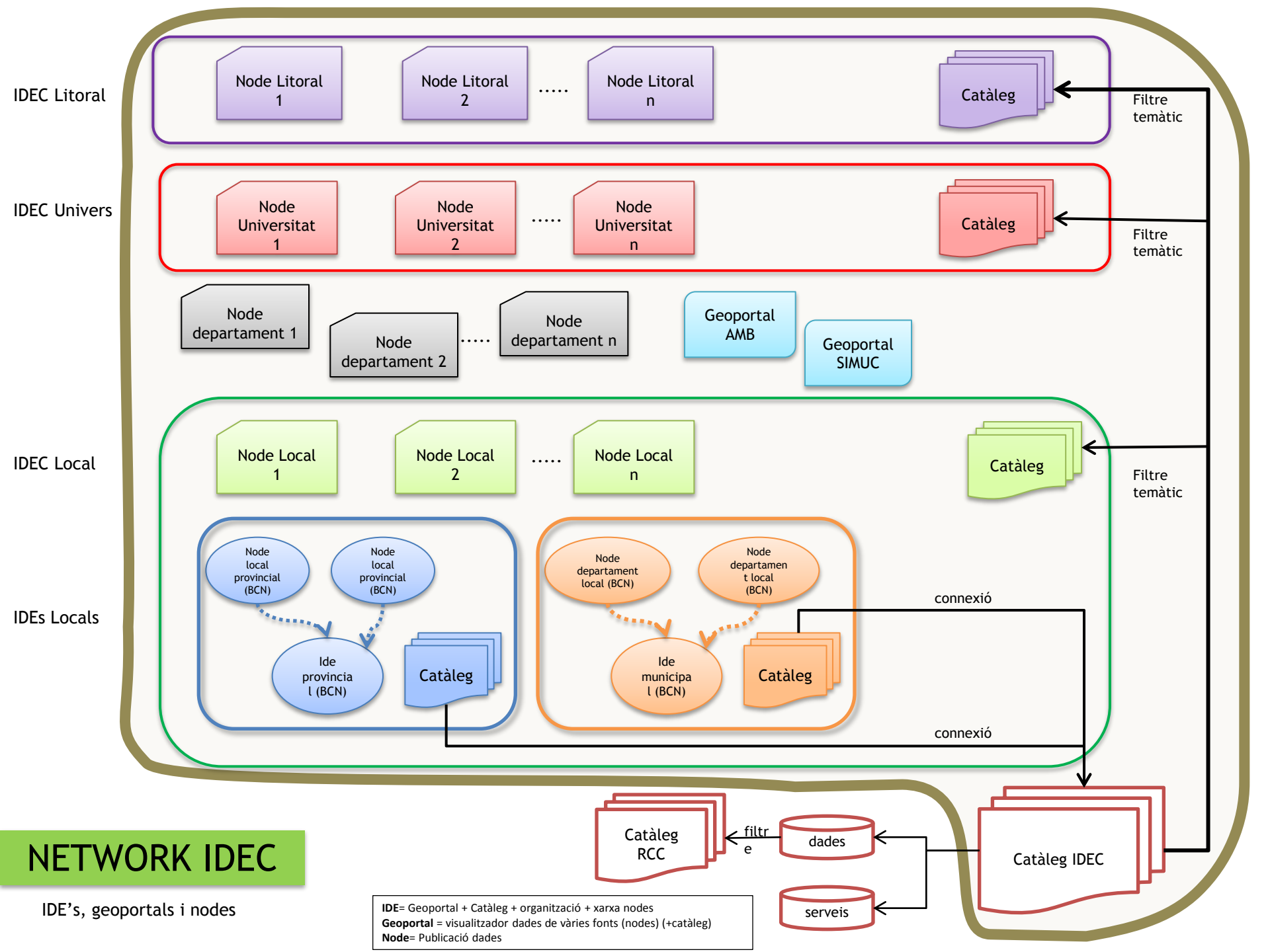
Xarxa de sensors a Cata
Catalog
Maps
Geology
Editor de Mapes
Editor de Mapes Temàtics
Gestor de Serveis WMS
Editor Atles
Protecció Civil
Localret
Monitoratge/Estadístiques d'ús
IDECLOCAL
Infraestructura de Dades Espacials de Catalunya del món Local
GEOLOCAL
IDEUnivers
IDEC
Observació de la Terra


IDEC Litoral
Node Litoral 1
Node Litoral 2
.....
Node Litoral n
Catàleg
Filtre temàtic
IDEC Univers
Node Universitat 1
Node Universitat 2
.....
Node Universitat n
Catàleg
Filtre temàtic
Node departament 1
Node departament 2
.....
Node departament n
Geoportal AMB
Geoportal SIMUC
IDEC Local
Node Local 1
Node Local 2
.....
Node Local n
Catàleg
Filtre temàtic
IDEs Locals
Node local provincial (BCN)
Node local provincial (BCN)
Ide provincial (BCN)
Catàleg
Node departament local (BCN)
Node departament local (BCN)
Ide municipal (BCN)
Catàleg
connexió
connexió
Catàleg RCC
filtre
dades
serveis
Catàleg IDEC
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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Users, uses and impacts

From a survey of 100 geoportal visitors (2008/2009) Total visitors: 90.000

Notice that IDEC.Local users&uses are not included

Are our services good enough to repeat the visit to the geoportal?

73.4% of the users had visited the Geoportal more than once.

Where are our custormers from?

42% of the respondents were from public administration
40% from the private sector
14% from universities.

How they evaluate the services?

66% value quality of all the services (Catalog of Metadata with a high interest (value 4) or very high (value 5)).

Benefits valuation:

55.7% Time **savings** **(2 - 5 hours saved by each visitor per month)**
50.8% Quality improvement
27.9% Increase better decision making

Main USES

Reports and projects ,Help to elaborate environmental audits,Teaching, presentations ,Land analysis and thematic maps

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ECONOMIC and SOCIAL impact

⇒Economic

⇒ (see the JRC report – 2007) – Local Administrations

JRC Report:	6 months R.O.I.
2006 benefit:	2.500.000 €
2002-2006 expenses & investment:	1.300.000 €
Annual expenses:	350.000 €

⇒ 2011 updating: local administrations

2011 benefit:	2.750.000 € (*)
2011expenses:	300.000 €

⇒ **Plus 11 organizations with non quantifiable value**

(*) several local adm. have developed their own GIS services

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ECONOMIC and SOCIAL impact (II)

⇒Social

⇒Disminishing the digital gap in small organizations
⇒Tools for the social capital development and users participation

⇒Organizational

⇒Influence of the sharing “concept”
⇒Accepting the fact of working with external tools
⇒Improving the own GIS resources

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Contribution to innovation

GI business is about 2,5 % of global IT business. Our influence cannot be very visible, but we bring our piece

⇒Innovation focused on:

⇒ Helping the development of e-Gov. → local entities support
⇒ Integrating Web Sensor Data into GIS
⇒Interoperability projects:

⇒Cartographic updates
⇒Street data

Indirectly: increasing interest in GI

From being an innovation to promote innovation

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Contribution to innovation

Technological:

eGov. related: Reusing applications (ex. Tracking from UPC)
Integration of eGov tools in IDEC services

interoperability: Updating ICC Topo Maps from other sources (WFS harvesting)
Local collaboration in updating streets DB (WFS-T)
Sharing web sensors data (SOS) within organizations (APB-SMC)

Organizational:

eGov. related: Emergencies
Updating public facilities
Mantaining adresses

Common resources platform
Local-regional
To work together

New institutional agreements, new simplified processes, new dataflows

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New ways of sharing data

IDEC mission is to achieve that geodata can be accessed in Internet (search, discovery, evaluation, manipulation, download..). It encourages that such information is freely available.

IDEC can control only a part of the data flows (through the IDEC viewer and other services and applications – see statistics), because the access is free and not subject to any previous formal agreement. Users access directly the WMS of the providers.

BUT many other informal-non controlled data flows are taking place between public administration. Most representative are:

Cadastre (from Central Estate Cadastre)
Ortophotos and Topographic maps (ICC provided)
Public facilities (Govern. Provided)

Almost ALL Local applications make use of these layers.

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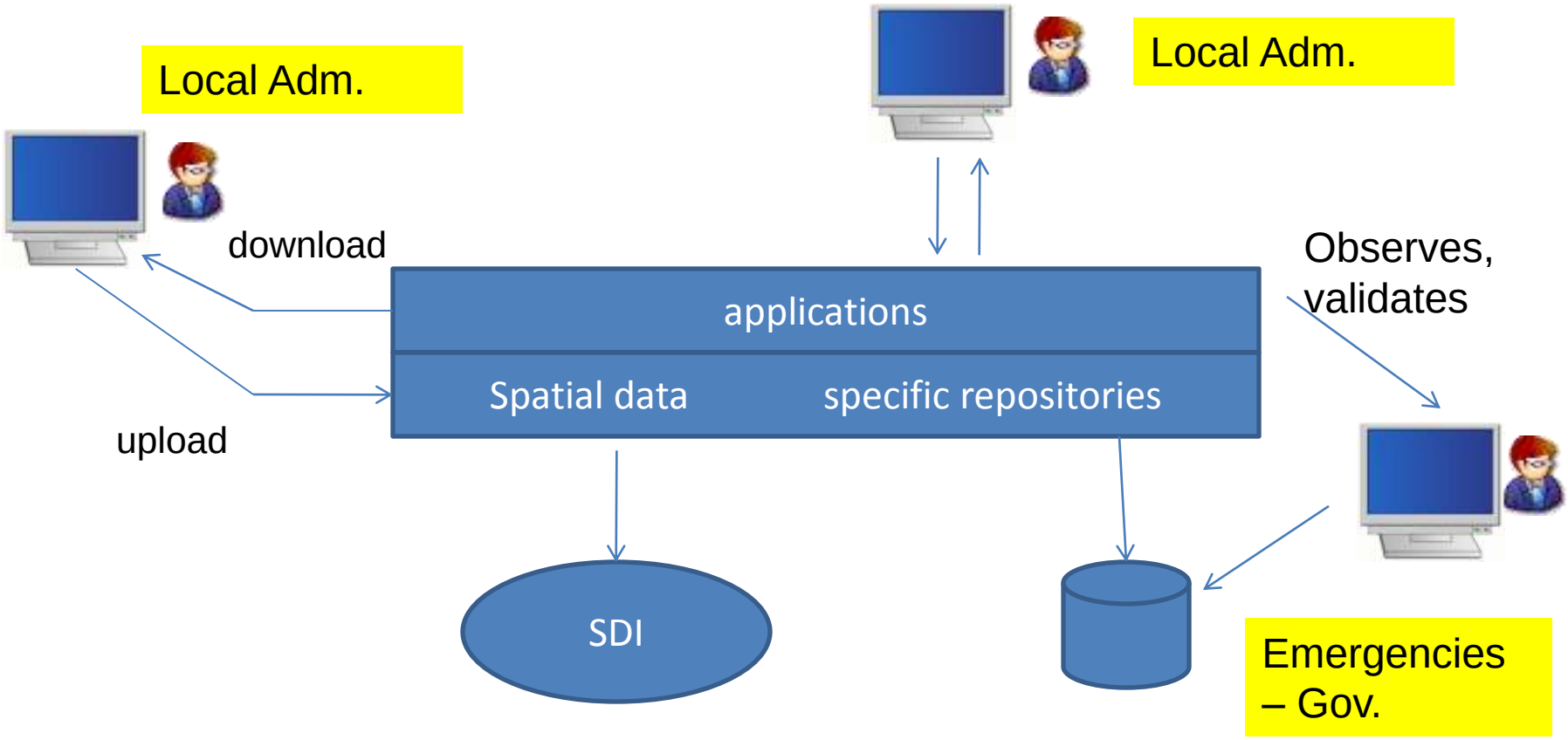
The common platform

Formal and controlled activities/projects



Applications (PRG):
Viewer, Editor, Geocodifier, thematic maps, Atlas, Tracking....

Thanks

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