



From the crowd sourcing to the institutional sourcing: a way to cooperate between regional and local administration

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Institut Cartogràfic de Catalunya

- Public organization of the Generalitat de Catalunya.
- From its creation in 1982, it has been generating and updating cartographic products and promoting studies to improve the production workflows.
- Projects are developed mainly in Catalonia, but also in Spain and worldwide, from either public and private entities.
- 245 employees.
- Operating annual budget 25 Million Euros.

Institut Cartogràfic de Catalunya

- Activities and services:
 - Primary data capture systems
 - Positioning systems
 - Topographic databases
 - Thematic databases
 - Image cartography
 - Applications
 - Spatial data infrastructure of Catalonia (IDEC)
 - Map Library of Catalonia

Institutional sourcing as VGI

- Based on the **collaboration** between institutions providing resources and information to the network for its use and sharing
- Activities and delivered resources are **not derived from any responsibility** or formal duty, but from spontaneous initiative
- Sometimes, institutional commitments based on the **voluntary assumption** of responsibilities which in many cases implies individual engagements

Bases for institutional sourcing

- **Collaborative environment:**
 - Awareness on benefits of sharing OPEN data
 - Spirit of collaboration
 - Availability of OPEN data

- **Technological developments:**
 - Web 2.0
 - SDI's
 - Standards
 - Communication infrastructure
 - Others

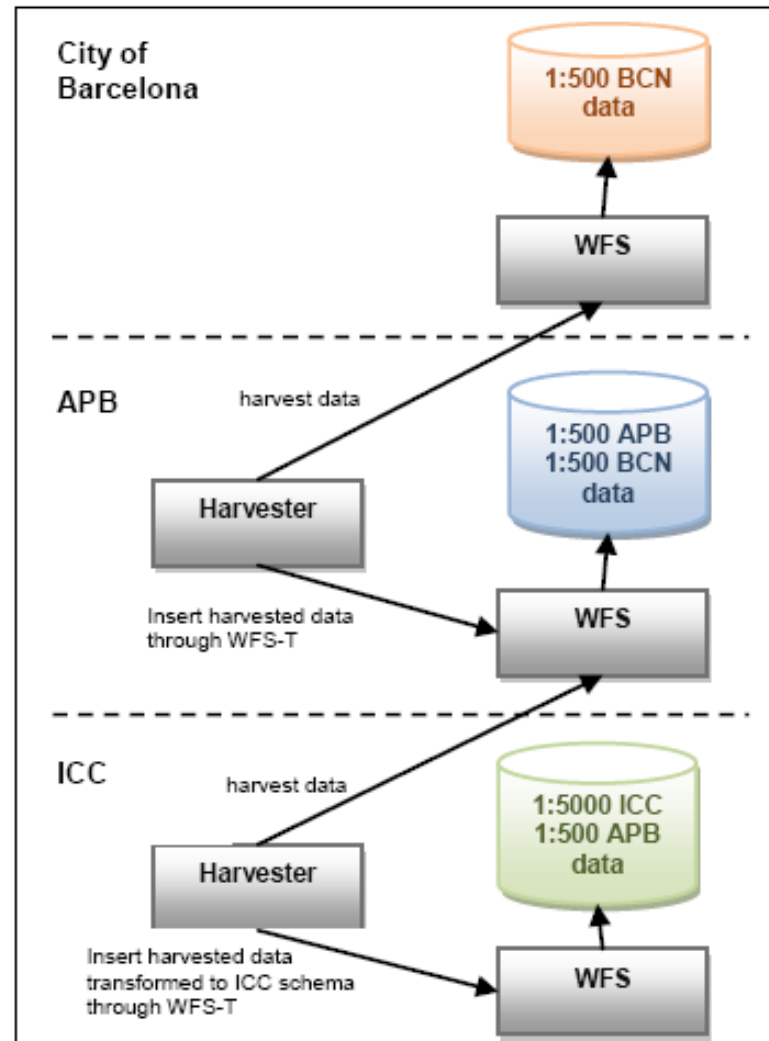
Types of collaboration -1

- Formal
 - Between institutions
 - 2 or more agents
 - Punctual
 - Specific technological framework

- Examples:
 - Updating Topographic database
 - Updating Street database

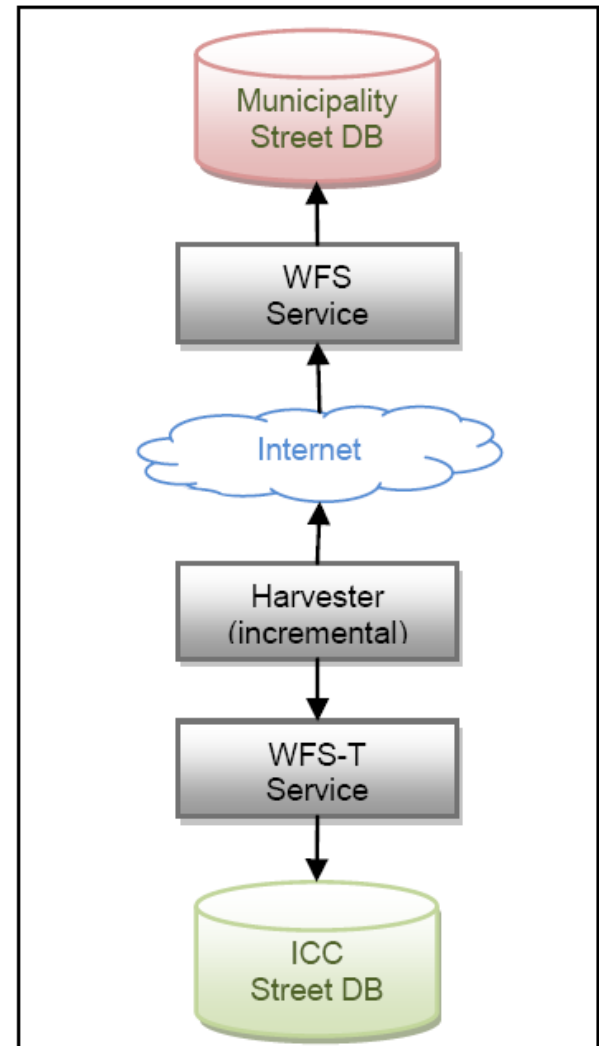
Updating Topographic database: Prototype of collaborative updating

- Overview of the mechanism to retrieve data between partners: data harvesting.



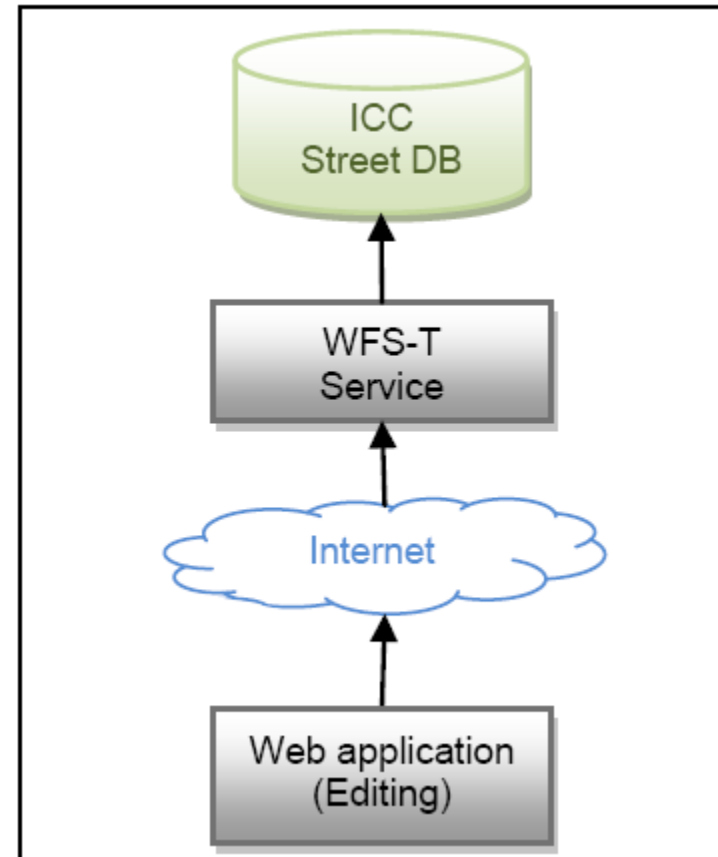
Updating Street database: Prototype of collaborative updating

- First scenario: Web based incremental harvesting of the data changes.
- Improvement:
 - substitution of the transfer of the updated data by ftp or DVD and the data model transformation,
 - by the request of automatic harvesting of the changes from the source database.
- The defined data mapping is encoded in a XSLT stylesheet.
- The data is transformed from the source to the target data model by the harvester,
 - applying the stylesheet on the source GML data retrieved from the WFS.



Updating Street database: Prototype of collaborative updating

- Second scenario: Web based updating of the database.
- Development of a Web application. The municipality introduces the updates directly in the target database through WFS-T.
- The changes are validated and then consolidated in the database.



Types of collaboration - 2

■ Informal

- More identified with VGI concept
- Free decision of any institution
- Diverse thematic information
- Massive



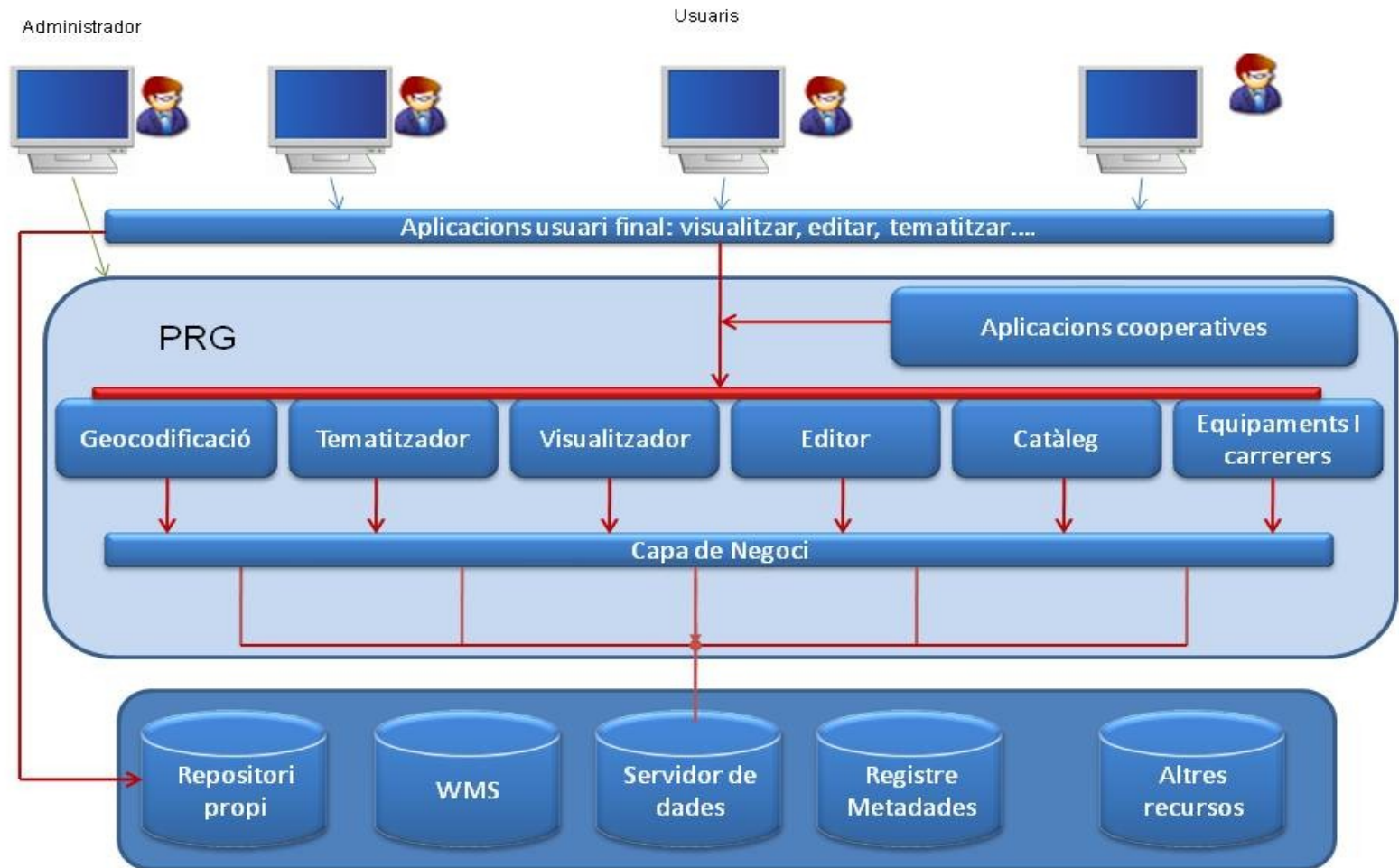
■ Requirements:

- Adequate tools (PRG: GeoResources)
- More complexity than VGI Web 2.0
- Metainformation

■ Benefits:

- Better quality
- More reliability
- Sustainability

PRG: GeoResources Platform



Tools in the PRG



Plataforma de Recursos de Geoinformació IDEC

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Aplicacions **Eines** **Les meves Aplicacions** **Ajuda** **Administració**

» Eines

Eines

Les eines són aplicacions web que permeten crear, editar cartografia o serveis cartogràfics, que es poden utilitzar a les aplicacions i visors.

Editor d'Objectes



Crea nous elements i noves capes per afegir als teus visors. Publica les teves capes en un WMS amb només un clic.

[Accedir](#)

Editor de Temàtics



Crea un mapa temàtic, tematitza les teves capes i publica-les als teus visors i a la Web.

[Accedir](#)

Editor de Servidors WMS



Coneixes més servidors WMS? Afegix-los als teus visors per complementar els teus mapes.

[Accedir](#)

Editor Atles



Afegeix un text descriptiu als teus mapes, vincula imatges i documents per crear fàcilment els teus propis Atles.

[Accedir](#)

Protecció Civil



Gestiona la informació relativa a Protecció civil per augmentar la seguretat dels ciutadans. Identifica els punts d'actuació prioritària en cas d'una emergència.

[Accedir](#)

LocalRET

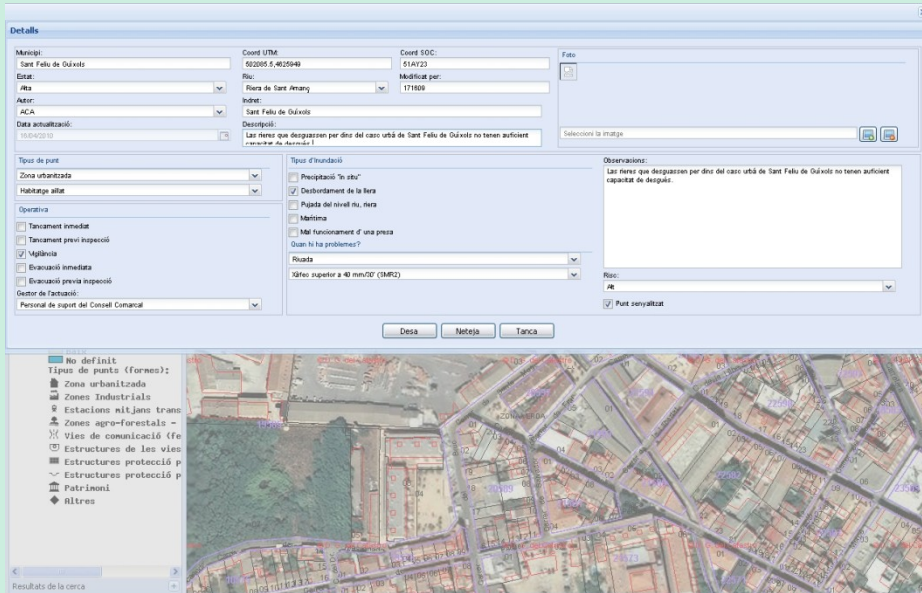


Actualitza la informació dels equipaments municipals, per oferir un millor servei als ciutadans. Col·labora mantenint la informació de la xarxa d'equipaments de Localret.

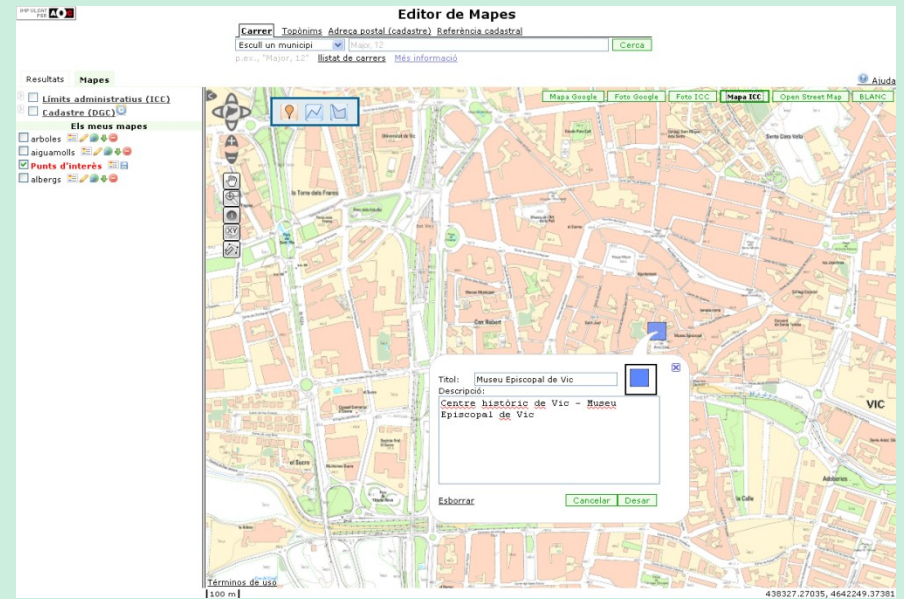
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Examples -2

Risk management

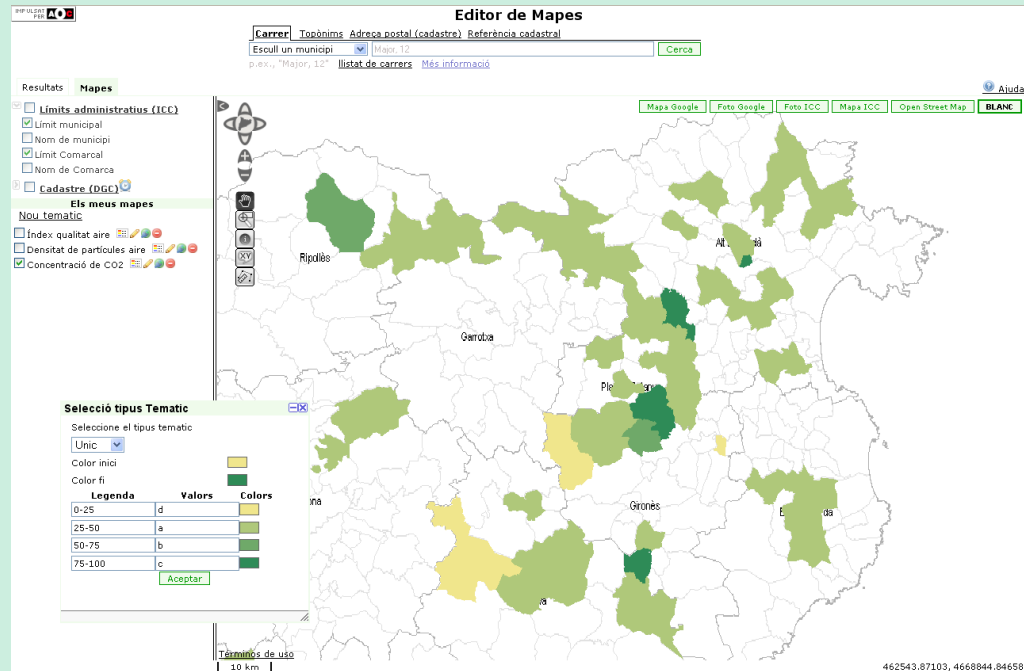


Creating new layers



Examples - 3

Thematic maps



PRG USERS:

+ 200 local authorities

+ 50 other public entities

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