IDEC (SDI) philosophy to modify strategies and plans: Analysis of concrete cases in Catalonia

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Where Catalonia is?

IDEC INTRODUCTION

1.- IDEC Introduction
2.- Influence of SDI concepts
3.- Case 1: Hipermap
4.- Case 2: SDI of Local SDI’s
5.- Case 3: Thematic SDI Urban Land Planning
6.- Summarize

IDEC PROJECT 2002 - 2004

First year: Project arrangements
Second year: Project starting and launching
Third year: Project consolidation
2005: Applications

Generic Services
Metadata
Edition Tool
- 18,000 registers
- 3 languages: Catalan, Spanish, English
- 75 Companies (Public and Private)
- + 2000 reg. at the end of the year

Elements and basic architecture

Catalog

IDEC SERVICES / PLATFORM

WMS Client
WFS, WCS
Geoservices

Control & Security
**Thematic SDI’s**

**Catalonia Spatial Data Infrastructure**

**Corporate GIS Project**

- Led by the Dept. of Territorial Policy and Public Works
- **Goals**: To make land information available to companies and citizens.
- **How**: WMS with referenced geo-information + POI’s, government activities, statistics, etc.
- **Gathering data from other departments in a centralized proxy**
- **NOW**: Through OGC connectors to reference geodata in Map Agency and other Departments.
- **Advantages**: to avoid data duplication, to get more and more information, data sharing and, the best of all, a lower cost.

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**Case 1.- Hipermap**

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**Case 2.- Local SDI’s**

**IDEC Local Project**

- It was initiated by e-gov organization
- It is managed by IDEC. Funds for the participating municipalities.
- **PREVIOUS CONCEPT**: a generic idea about local government updating planning, promoting the use of GIS and digital land information

**NOW**: Two main changes

1. The e-gov organization will not afford funds, but is using them to provide services to municipalities
2. The main goal is not to create more data and more GIS systems but to discover the already existing information, making it available for other users. (this is the way to get more and more accurate data every day)

**Two years of SDI Local project, but probably it will last two years more.**
**Case 2.- Local SDI’s**

**Benefits for the local entities**

1. It will be affordable for them to use a customized WMS Client, to offer to the citizens their own data and data coming from regional governmental WMS (orto, street map, gazetter, public investments,...) (*results visualization policy*)

2. To share data with other municipalities and with several departments of the regional Government. (interoperability concepts introduced in the diary activities)

3. To participate in future commercial and non-commercial projects (Facilities, real state market, etc.)

**Funds:**

- 30 € per metadata record
- 2000 € to prepare WMS and to publish layers (cadastre, urban planning, environment, equipments...)

**Case 3.- Urban Planning**

**General scope:**

The Department of Territorial Policy and Public Works is responsible for urban planning, but the local administration is managing it and carries out urban planning with the Department approval. Consequently, the Department has to manage the huge volume of information in a more accurate and dynamic way, controlling and following all processes (till now the control was partial and nearly manual, implying many troubles)

**The old approach:**

To create a centralized GIS database to load and storage all information (from paper or from digital supports) issued by municipalities.

**Requirements:** to use as reference the base of Topographic Map 1:1000 (not available in all cases) trying to overlay the urban planning layer.

**Maintenance** is also required to update the continuous urban land transformation.

**Consequences:** it is near impossible and too much expensive (20 - 30 M €)

**The NEW approach:**

To promote the Local SDI asking to municipalities to load urban planning data in WMS to allow the access of WMSClient from the Department.

**Advantages:**

- Maintenance is done by municipalities.
- Generalize use of GI and WMS throughout the local administration. More chances of sharing data between regional and local administrations.

**LOW COST.** (1 M €) Future possibilities. It is a base for other projects (Utilities, real state market...).
SDI clear impacts on business, information models and others:
- It can be transformed into economic values
- How to measure values?
- We cannot apply a percentage to any budget
- Could you believe that SDI profits are 10 times higher than the cost of SDI activities?

(Example: Case 3: it cost 1 million €. In the old approach, the cost is around 18 million €, without assuring the system maintenance).