

# GeoBI Initiative the open source location intelligence ecosystem

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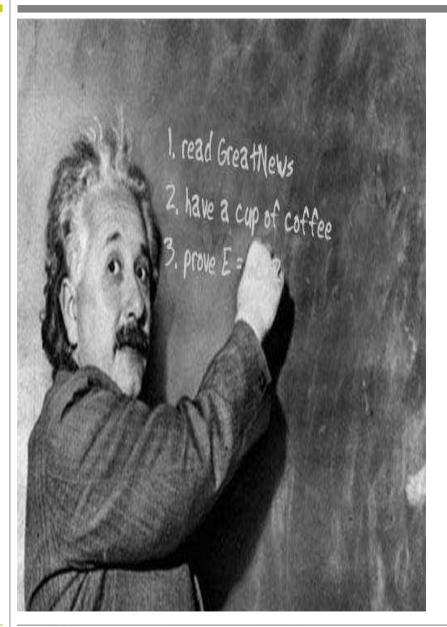
November 9, 2010 - Grenoble







#### Agenda



#### **Location Intelligence**

• Short intro

#### **GeoBI** Initiative

- What (mission & principles)
- Why (driver, barrier & goals)
- Who (members)
- When (Birthdate & roadmap)

#### DEMO

- GeoReport
- GeoOlap





#### Before to start...







**Location Intelligence** is the capacity to combining spatial data with other business data in order to gain critical insights, make better decisions and optimize important processes Ĥ  $\mathbf{C}$ and applications



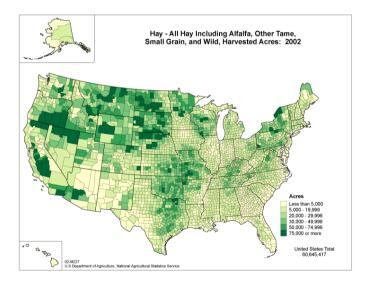
**Source:** *http://en.wikipedia.org/wiki/Location\_intelligence* 





Thematic maps are maps that tell a story about a place more than merely describe where something is located in space





**Source:** From Place to Space: The Psychological Achievement in Thematic Mapping, Barbara Petchenik. 1979 -American Cartographer 1 Barbara Petchenik (1979).













**GeoBl Initiative** is an open community (composed by companies, organizations, and individuals) built upon a common aim:

## make open source Location Intelligence adoption pervasive





# All members shares the following key principles:

- new value proposition
- separation of concerns
- incremental growth
- low TCO





Brenda Clarke on Flickr : http://www.flickr.com/photos/brenda-starr/3509344402/



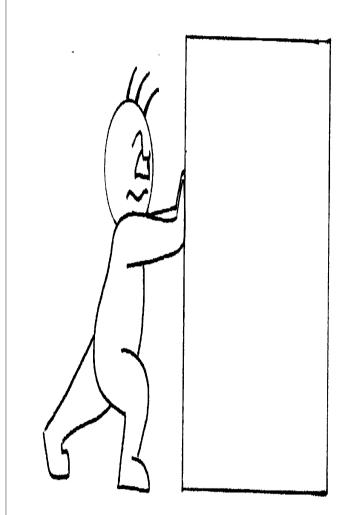








#### Internal drivers (there's the market)



# Growing **awareness** of location-enabled services

#### Spatial data are pervasive

"80% of all data stored in corporate databases have a spatial component"

An introduction to GIS: linking maps to databases -Franklin&AI.

#### **Better** business decisions

"Everything is related to everything else, but near things are more related than distant things"

First law of geography - Waldo Tobler

#### Valorize a dormient asset







#### **External drivers (there's the technology)**

| Presentation Layer | SOLAPLayers OpenLayers"<br>mapfish Solar GeoExt |  |                |
|--------------------|---|--|----------------|
| BI Suite           | Spage B1  |  | ° A            |
| Analytical Engines | GEOREPORT & GeoMondrian                         | Open Goop  | TITILITY CARTA |
| Service Layer      | GeoServer MapServer                             | in the second se |                |
| Spatial DBMS       | PestGIS<br>GE*SPATIAL<br>COMMUNITY              |  |                |
| Spatial ETL        |   |  |                |
| Spatial Data       | DenStreetMap                                    |  | $\zeta$        |







#### ...but there are also barriers :(







# Strategical barrier

#### **Cultural barrier**



#### It's not easy to balance

cooperation at the technology level

and

competition at the market level

#### Geo and Bl two world coming together (ignorance & misperceptions)



## GeoBl Initiative has been set up to

- improve the coordination work in the LI area
- disseminate BI & GIS knowledge
- promote BI & GIS integration
- strengthen connections among members
- create a research network
- turn research results into applications.

**Break LI adoption/integration barriers** 

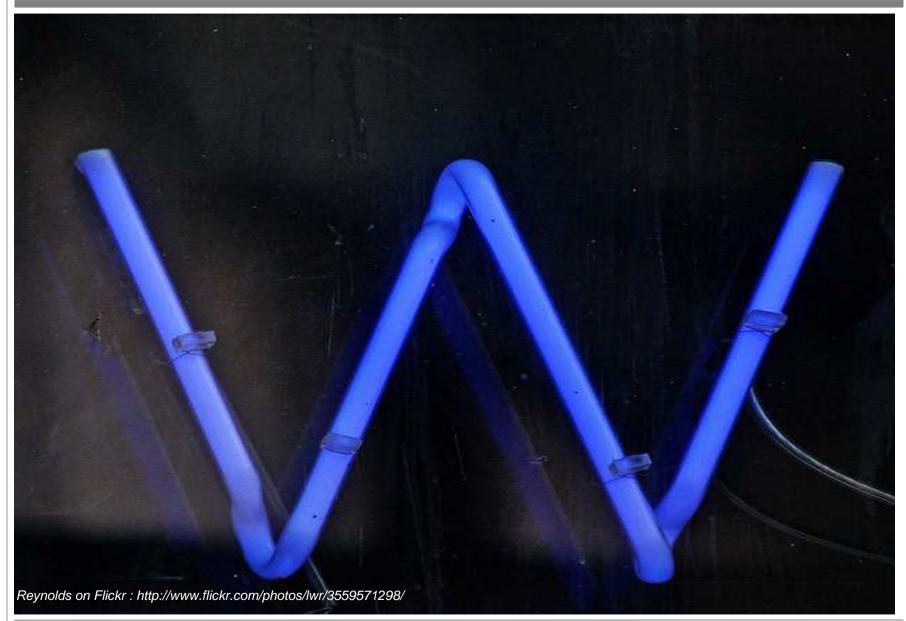
through

integration & evangelization





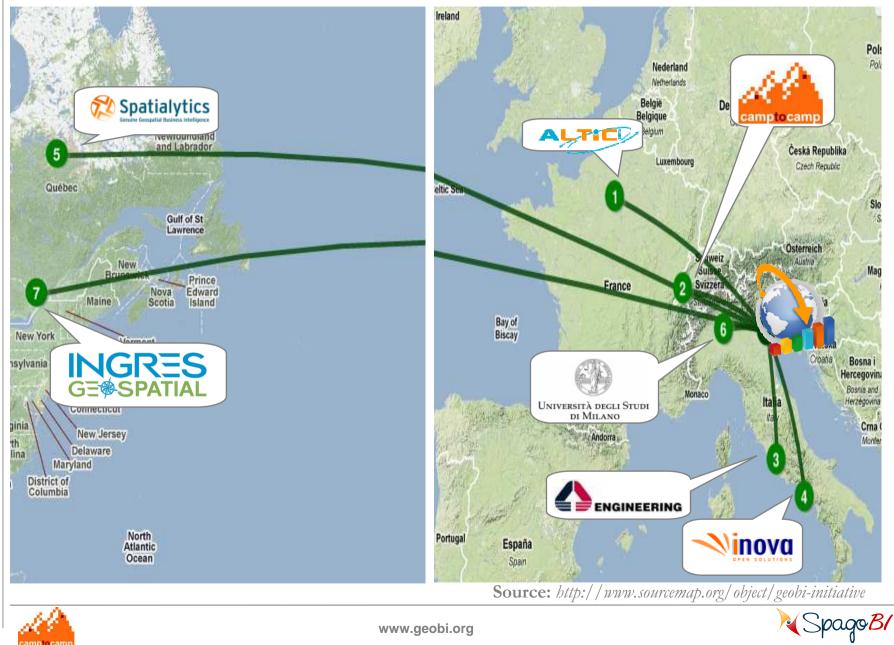








#### **Geographical map**





www.geobi.org

**Open Source Business Intelligence** 

#### **Technological map**





€SpagoB/

#### **Technological map**





€SpagoB/

#### New members are welcome!

























#### Roadmap

#### **Members:**

- GeoExt 1.0
- Ingres 10.1
- SOLAP Layers 2.0
- SpagoBI 3.0 (GeoMondrian & GeoReport)
- Gèo+

#### **Initiative:**

- Call for partecipation
- Webinars & whitepapers
- Events













GeoRreport is a geographical extension of traditional reporting systems.

It allows to plot every kind of dataset directly on a map (i.e. multidimensional data model is not required)





Originally created by INOVA

Based on Mapfish and GeoExt projects backed by Camptocamp

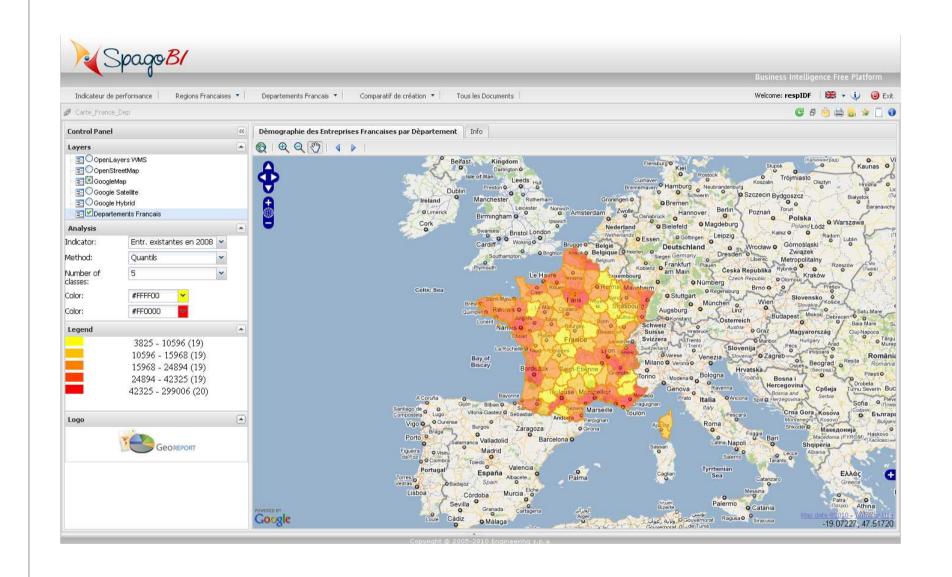
Integrated into SpagoBI Suite by Engineering

The demo I'm going to show has been made by Altic





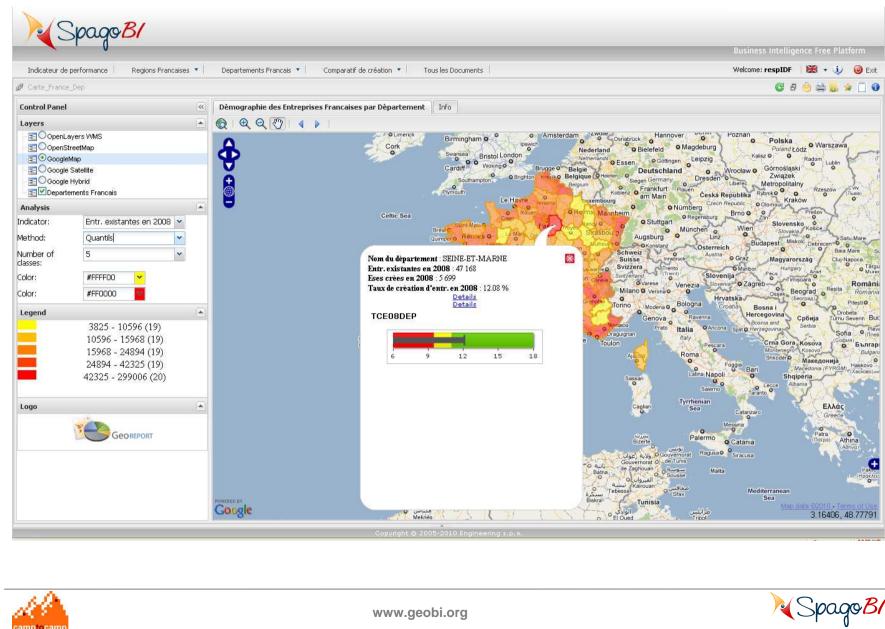
#### **DEMO1: GeoReport in action**







#### **DEMO1: GeoReport in action**





Open Source Business Intelligence

GeoOLAP is a geographical extension of traditional OLAP systems.

It allows to dynamically slice, dice and drill through data (i.e. multidimensional data model is required)





#### Demo made by Camptocamp

# Based on GeoMondrian projects backed by Spatialytics



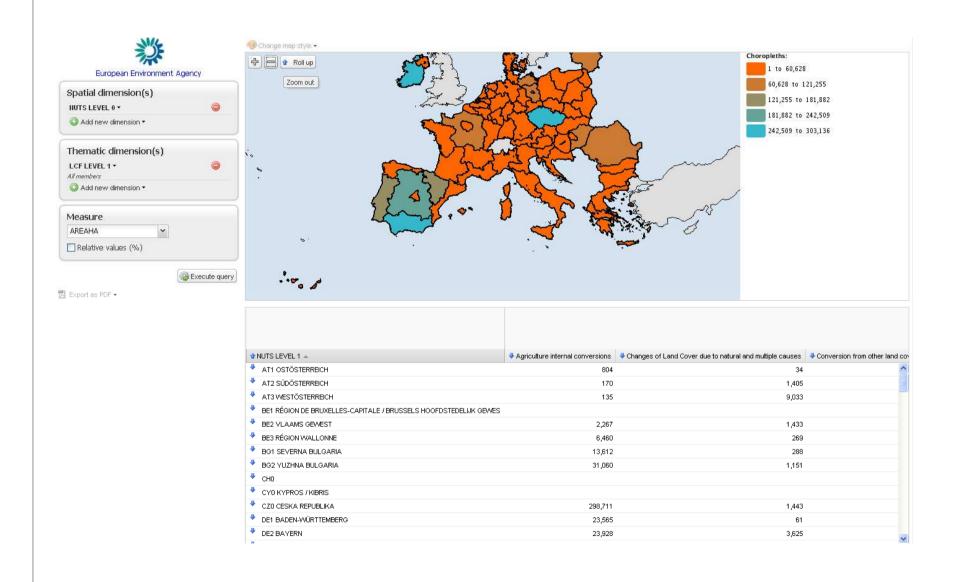


#### **DEMO2: GeoOLAP in action**

| European Environment Agency | 👴 Change map sty               |                    |  |                   | ppleths:<br>376,457 to 470,358           |
|-----------------------------|--------------------------------|--------------------|--|-------------------|--|
| Spatial dimension(s)        |                                |                    | to 12.   |                   | 470,358 to 564,259                       |
| SEA BASINS -                |                                |                    |  |                   | 564,259 to 658,160<br>658,160 to 752,061 |
| Ø Add new dimension ▼       |                                |                    | A A A  |                   | 752,061 to 845,962                       |
| Thematic dimension(s)       |                                |                    |  |                   |  |
| LCF LEVEL 1 • 🤤             |                                | *                  | For a  | 5                 |  |
| Add new dimension •         |                                | ¥.<br>?            | And when   | 2                 |  |
| Measure                     |                                |                    |  |                   |  |
| AREAHA                      |                                | *                  |  |                   |  |
| Relative values (%)         |                                | int                |  |                   |  |
|                             |                                |                    |  |                   | Measur<br>ARE<br>LCF LI                  |
|                             | SEA BASINS +                   |                    | Changes of Land Cover due to natural and multiple causes |                   |  |
|                             | Atlantic Ocean                 | 845,962            | 150,543  | 313,473           |  |
|                             | Baltic Sea                     | 444,427            | 16,689   | 8,097             |  |
|                             | Black Sea<br>Mediterranean Sea | 376,457<br>460,460 | 26,489   | 24,294<br>109,691 |  |
|                             |                                | 400,400            | 131,000  |                   |  |
|                             | North Sea                      | 621,639            | 67,090   | 28,425            | 493,397                                  |



#### **DEMO2: GeoOLAP in action**





















## www.slideshare.net /spagoworld

# www.geobi.org

#### www.camptocamp.com

#### www.spagobi.org







