



***Geo-Business Intelligence Architecture***

**Galigeo**  
.....**Solutions**

**HOW WEBIGEO ENABLES ORGANIZATIONS TO ADD THE  
GEOGRAPHIC DIMENSION INTO BUSINESS  
INTELLIGENCE APPLICATIONS**

**Galigeo**  
.....**Solutions**

**➔ What is the need?**

**A need...**

Put back information in its spatial context in order to optimize the analysis, to make reliable the decisions, to accelerate the operations and to improve the rendered service...

**... C/S or Intranet Solutions**

Give a new Dimension to your Business Intelligence by turning the corporate business data into "cartographic" multidimensional information for interactive analyses.

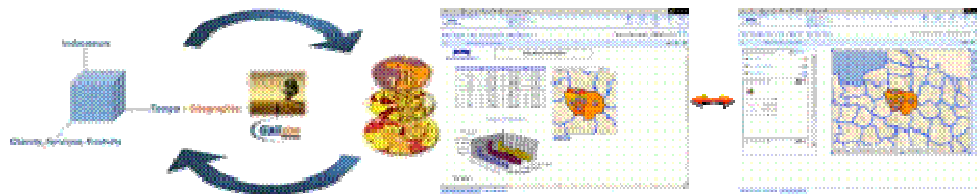
**Geo<sup>XT</sup>**

Geo<sup>XT</sup> is a C/S solution for analyses combining all the power of the Business Intelligence and cartography. This solution allows a controlled diffusion in many different formats (HTML, PDF) of intuitive analyses by grouping, in the same document, reports, dashboards and cartography.



**WebiGeo**

WebiGeo is an Intranet solution for online analyses and interactive and intuitive access with predefined dynamic reports. It gives the possibility of building specific queries and makes it possible to obtain a representation at once in their spatial context (interactive cartography) of the Measures objects in the Business Intelligence reports.



## ➔ Product Overview

WebiGeo is the only product on the market that allows to access, in a simultaneous and transparent way, to business data and geographical data, and then joining those two data sets, with only a simple web navigator.

WebiGeo provides a privileged collaborative environment that allows all the offices of a same organisation to, on one hand, share information and enhance it in its geographic context and, in the other hand, to share powerful tools in order to visualize, analyse and decide.

WebiGeo combines all the robustness of Business Intelligence and cartographic tools, then provides it to end-users to help and speed up analysis, reinforce the control level of information and make the decision-making process reliable.

Joining Business Intelligence and Cartography on the Web, "WebiGeo for ESRI" allows putting the corporate data bases information back in its geographic context:

- to map corporate data - indicators held in business documents - as cartographic thematic analyses (range values, individual values, symbols, pie-charts, bar-charts),
- to make spatial filters to refresh and visualize an existing Business Intelligence document in order to analyse terrain indicators and statistical data, to make spatial and temporal correlation of data or events, to optimize activity supervision, etc.



WebiGeo combines WebIntelligence and ESRI products, while keeping their own functionalities (create, publish, edit, visualize, navigate, analyse, refresh...). It makes it possible to dynamically map indicators contained in business documents, to make, save and provide to end-users cartographic sets of themes through intranet/extranet.

WebiGeo has three main functional modules:

- **Administration module** to define the relations between business data and geographical data; this module is available through independent interface,
- **Cartographic module** to create/consult cartographic documents; this module is available through Info view decisional portal,
- **Spatial query module** to consult business documents linked to the geographical data and refresh from a spatial selection; this module is available through interactive cartographic interface.

## ➔ Key Features

### Cartographic module



Directly embedded in the Info view portal, you can open the cartographic module with a simple button included in the WebIntelligence interface. This module gives access to the cartography functionalities and management of the cartographic sets of themes. You can then choose:

- Choice of decisional data to map,
- Choice of the cartographic view,
- Choice of the way of including the map in the report: image embedded in the report and/or interactive map in a new tab of the document.

### Interactive map and definition of the sets of themes



GIS client offers powerful cartographic tools for navigation and analysis :

- zoom +/-,
- pan,
- information,
- various selections,
- management of the visibility of the layers,
- displaying a legend,
- Etc.

The interactive map allows, with simple buttons:

- to map data report with various set of themes : colour ranges, pie charts, histograms, etc.,
- to combine several sets of themes at a time,
- the advanced user, to make a set of themes available to other users.

## Viewing and refreshing a cartographic report

All the users having the adequate profile and rights can directly access to the WebIntelligence documents mapped, in the list of the corporate documents of the decisional gate Info view.

The refresh of the WebIntelligence document involves the automatic update of the mapped decisional corresponding data in a report as in the other.

## Spatial Query Module: Viewing and refreshing a document from a geographic query



The user can graphically select geographical objects (departments, points of interest, etc.) thanks to selection tools, and refresh the current document with the selection as criterion or choose in a list the WebIntelligence documents of the repository compatible with its selection.

This functionality improves the user analysis possibilities thanks to the making of exchanges between decisional and cartography for multidimensional analysis in the whole of the system data.

## Online administration module

A WebiGeo administration module is available in the form of an independent Web application making it possible to define:

- the application's advanced users,
- the Business Intelligence - Cartography joints : link between geographical objects (ESRI cartographic layer) and Dimension objects known as geographical (ex: INSEE code, department code, etc.)
- the parameters for a WebiGeo cartographic view.

## ➔ Software Architecture



The WebiGeo components are installed on the servers corresponding to WebIntelligence on the one hand and ArcIMS-ArcGIS on the other hand.

### Requirements

<b>BI SERVER</b>	
<b>Operating System</b>	<ul style="list-style-type: none"> <li>○ Windows 2000 Server SP4</li> <li>○ Windows 2003 Server</li> <li>○ HP-UX 11i</li> </ul>
<b>HTTP Server</b>	Apache 2.0 (HTTP server must be set up to cooperate with Tomcat to interpret the servlets and JSP pages)
<b>Servlet Engine</b>	TOMCAT 4.1.30
<b>Java Environment</b>	Sun JDK 1.4.2 recommended
<b>Business Objects Server Products</b>	<ul style="list-style-type: none"> <li>○ WebIntelligence <b>v6.5 JSP</b> ("Infoview" Module &amp; "Reporter" Module)</li> <li>○ WebIntelligence <b>XI JSP</b> ("Infoview" Module &amp; "Reporter" Module)</li> <li>○ Data Access Packs (at least drivers for the various databases where BO repository and business data are located)</li> </ul>

<b>BUSINESS OBJECTS ADMINISTRATION</b>	
<b>Operating System</b>	Windows 2000 Professional or other compatible version / Windows XP
<b>For Business Objects Version 6.5</b>	<ul style="list-style-type: none"> <li>o Supervisor (for BO security management)</li> <li>o Designer (for possible modification of the universes)</li> <li>o Data Access Packs (at least drivers for the various databases where BO repository and the business data are located)</li> <li>o Business Objects Reader, Reporter and Explorer (for creating Business Objects reports)</li> </ul>
<b>For Business Objects XI R2</b>	Access to the Central Management Console Business Objects Enterprise

<b>GIS SERVER</b>	
<b>Operating System</b>	<ul style="list-style-type: none"> <li>o Windows 2000 Server SP4</li> <li>o HP-UX 11i</li> </ul>
<b>HTTP Server</b>	Apache 2.0 or IIS 5 (HTTP server must be set up to cooperate with Tomcat to interpret the servlets and JSP pages)
<b>Servlet Engine</b>	TOMCAT 4.1.30
<b>Java Environment</b>	Sun JDK 1.4.2 recommended
<b>ESRI servers products</b>	<ul style="list-style-type: none"> <li>o ArcIMS 9 with the KOGIS Framework</li> <li>o ArcGIS Server</li> <li>o ArcSDE 9 (with an ArcSDE user having writing rights)</li> </ul>

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This edition published September 2006

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