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*Social
Innovation and
new ways of
governance for
the socio-
ecological
transition*

The “WebGIS” as a Tool for Territorial Diagnostic and Dialogue Among Territorial Actors: What is the Optimal Format within a Socio-Ecological Transition Context?

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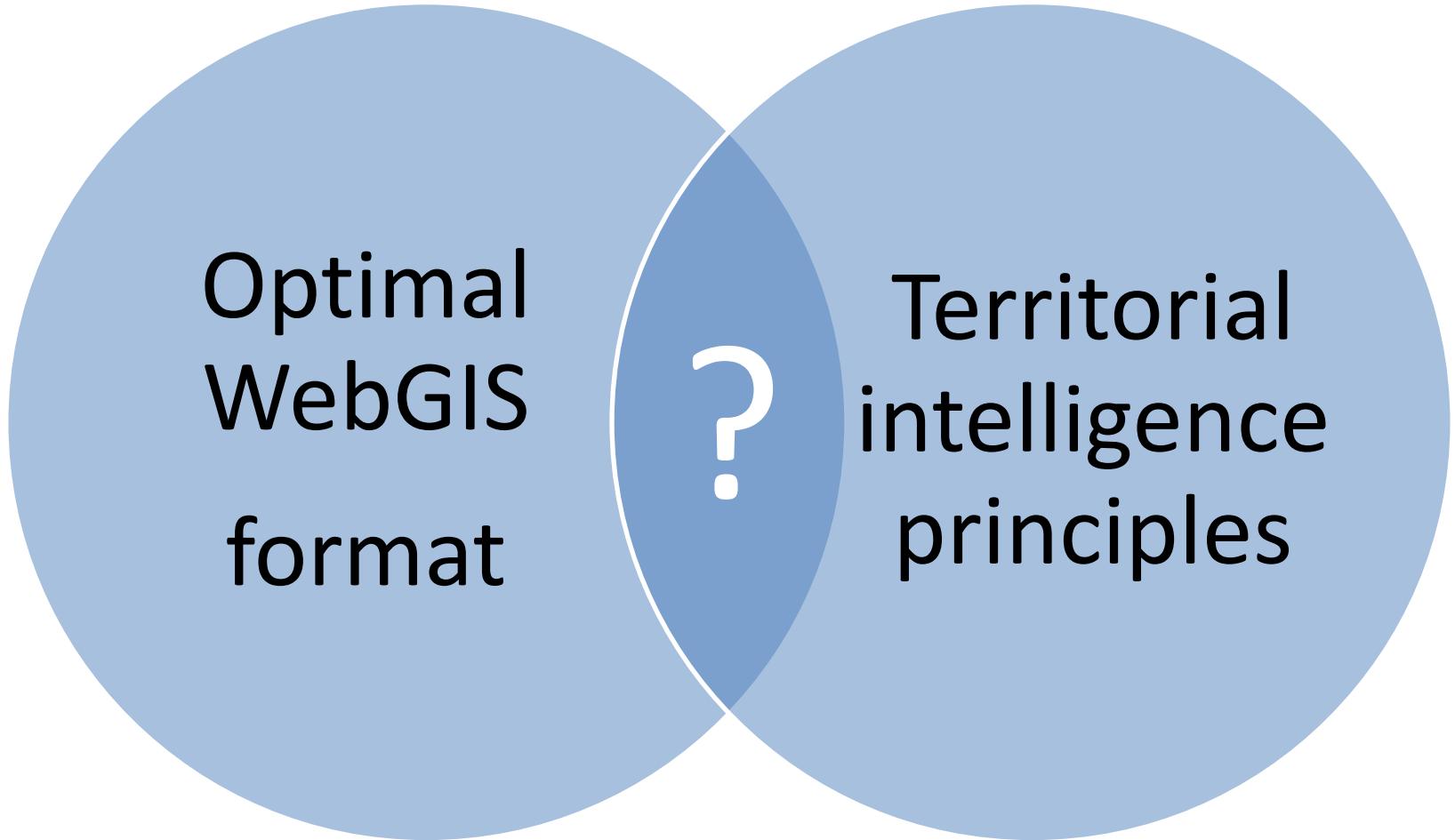
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Agenda

1. Context and Objectives
2. Framework Description: WebGIS-IT Concepts
 - WebGIS : Notions and Definitions
 - IT : Context of Territorial Actions
3. Observations and Analyses Based on WebGIS-IT Examples
4. Conclusions and Future Perspectives

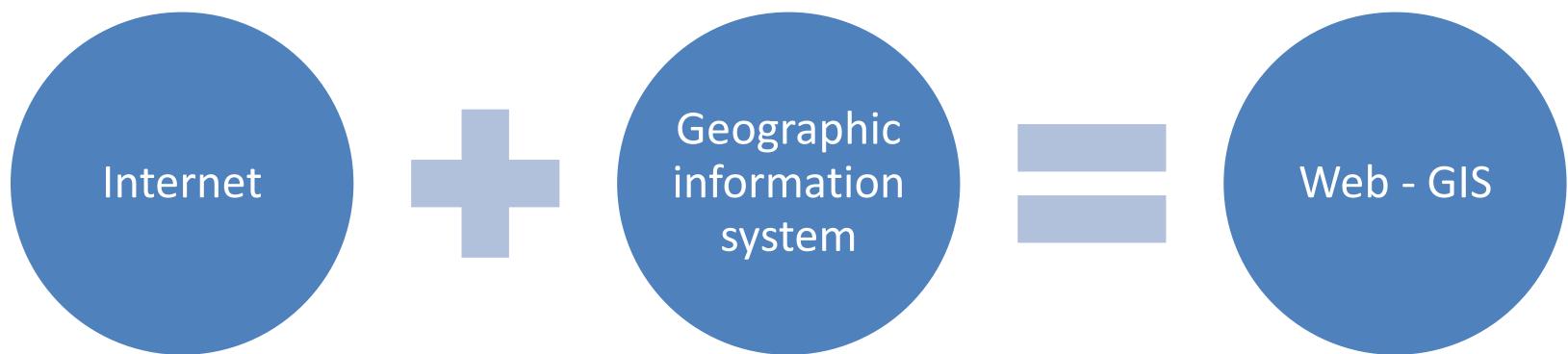
1. Context and Objectives



2. Framework Definition

- What is a WebGIS ?

“Online geographic information diffusion”



2. Framework Definition

- Spatial data server: notion of centralisation and distribution of geographic information
- Advanced open source software solutions (for example, the solution: PostGIS - GeoServer - OpenLayers)
- International standards and organisations (OGC and OSGEO)
- Many advantages (data updates, dynamic mapping; indicators combination; representation customisation; collaboration among actors...)

2. Framework Definition

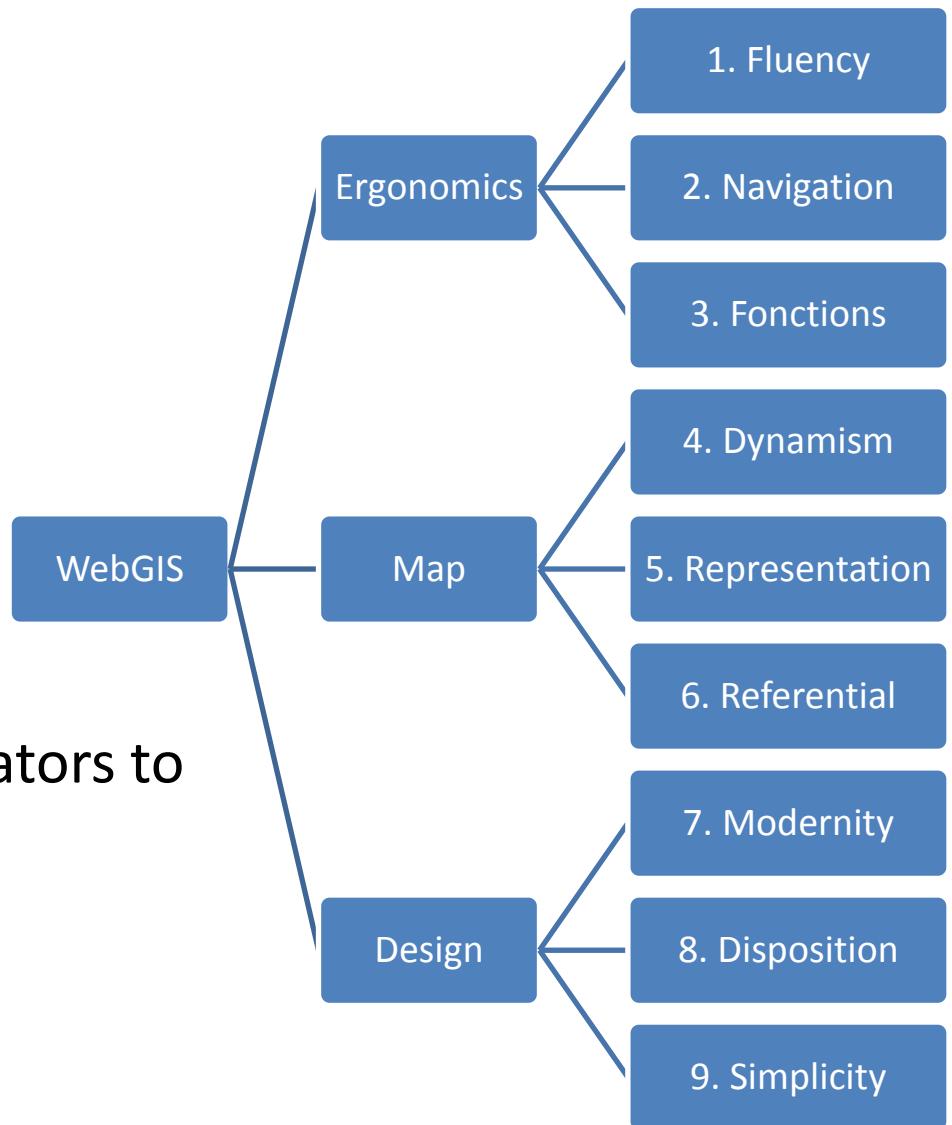
- Technical elements :

- A few key rules

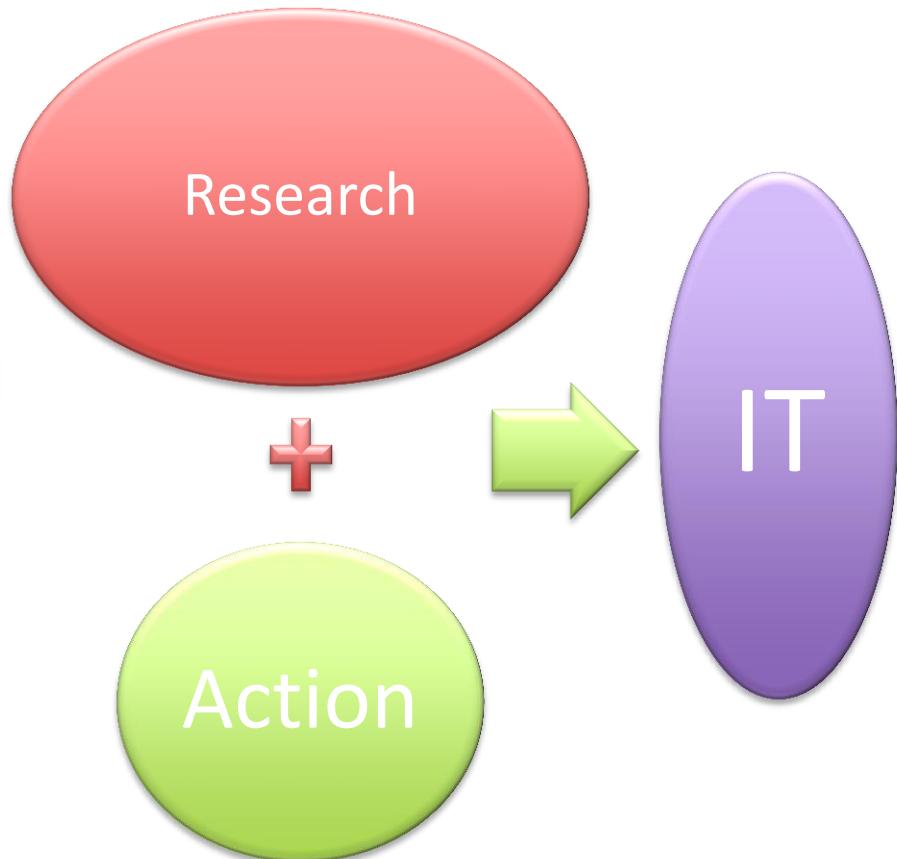
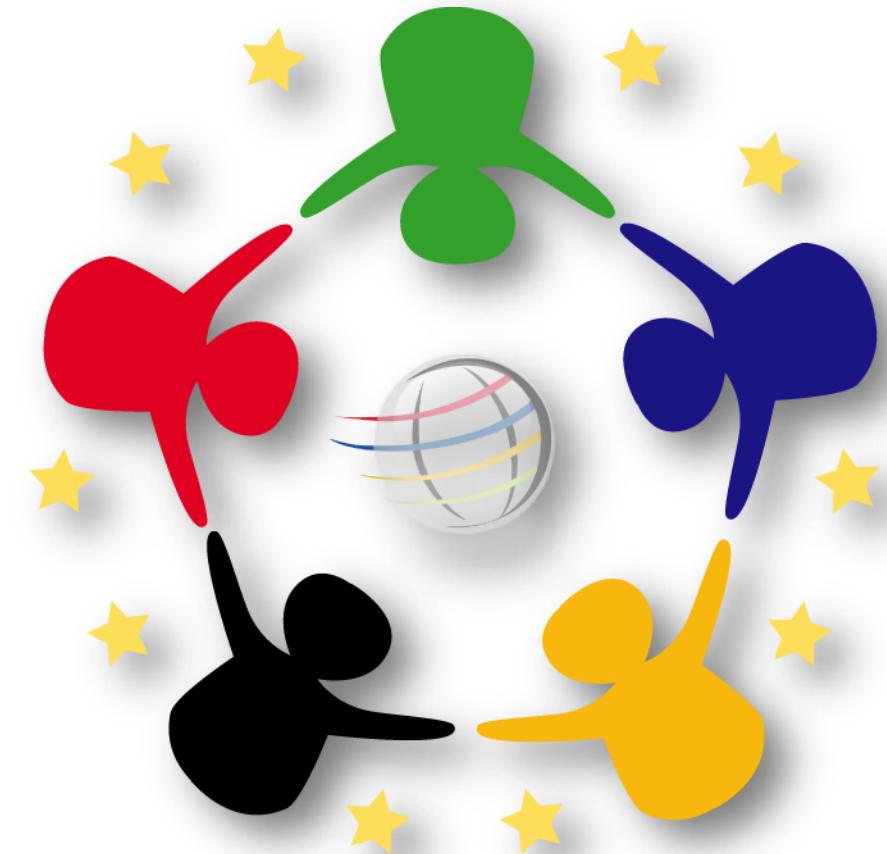
- Don't feel confused.
 - Three clicks rules;
 - A function = A need ;
 - ...

- Interface development

- Identification of 9 indicators to describe a WebGIS-IT



2. Framework Definition



2. Framework Definition

- “Territorial intelligence is a process where information technologies are organised to produce”:
 - Knowledge related to the understanding of territorial structures and dynamics,
 - Tools to be used by territorial actors to create, use and share knowledge for sustainable territorial development.

2. Framework Definition



2. Framework Definition

Territorial resources
organisation

- Seek resources of the targeted territory
- Partnership organisations

Knowledge and
competency pooling

- Multi-dimensional project
- Co-learning

Participants
accountability

- Organise collaborative project management
- Participant's deontology and autonomy

Common results
control

- Valuation of territorial impact
- Sustainability of actions

3. Observations and Analyses

- What is the optional format of a WebGIS-IT?
- An application must fulfill its objectives;
- A “User friendly” application ;
 - Satisfaction level ;
 - Usage level (Gap between the expected and actual use);
- An application integrates IT principles.

3. Observations and Analyses



Google Maps

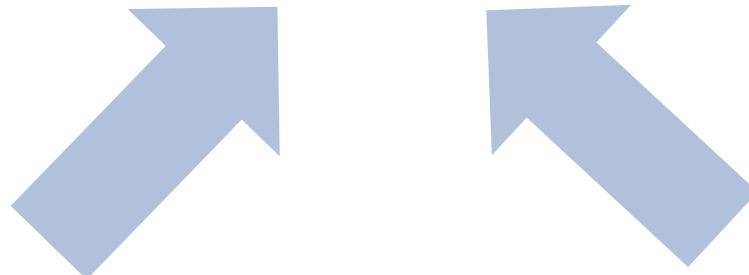


Géoportail



3. Observations and Analyses

WebGIS-IT
usage and
satisfaction



Technical rules

Users context

3. Observations and Analyses

- Users context :

- Their needs: **WebGIS-IT = a tool**

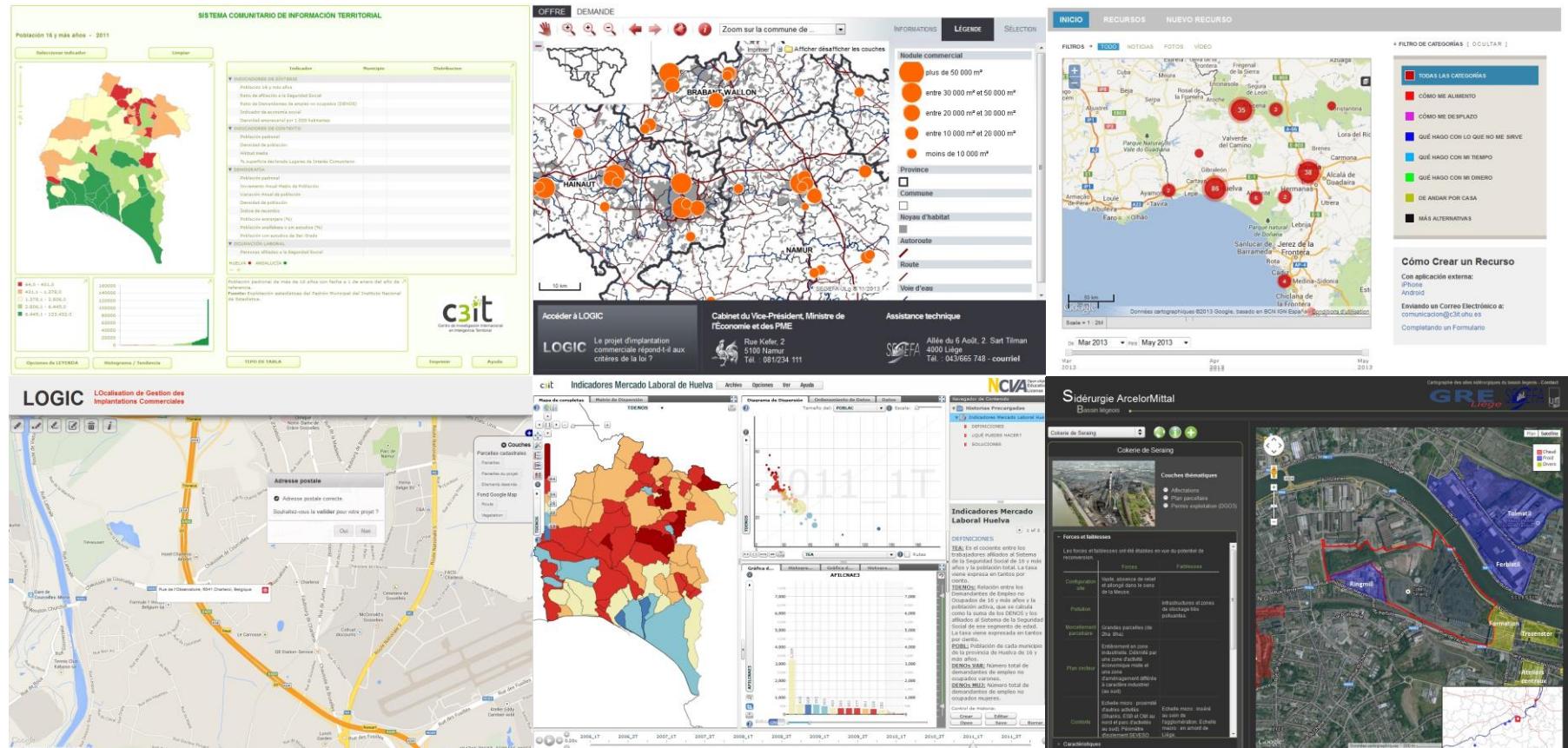
The application must be developed according to the users needs (investigation among them).

- Their efficiency : **WebGIS-IT = an opportunity**

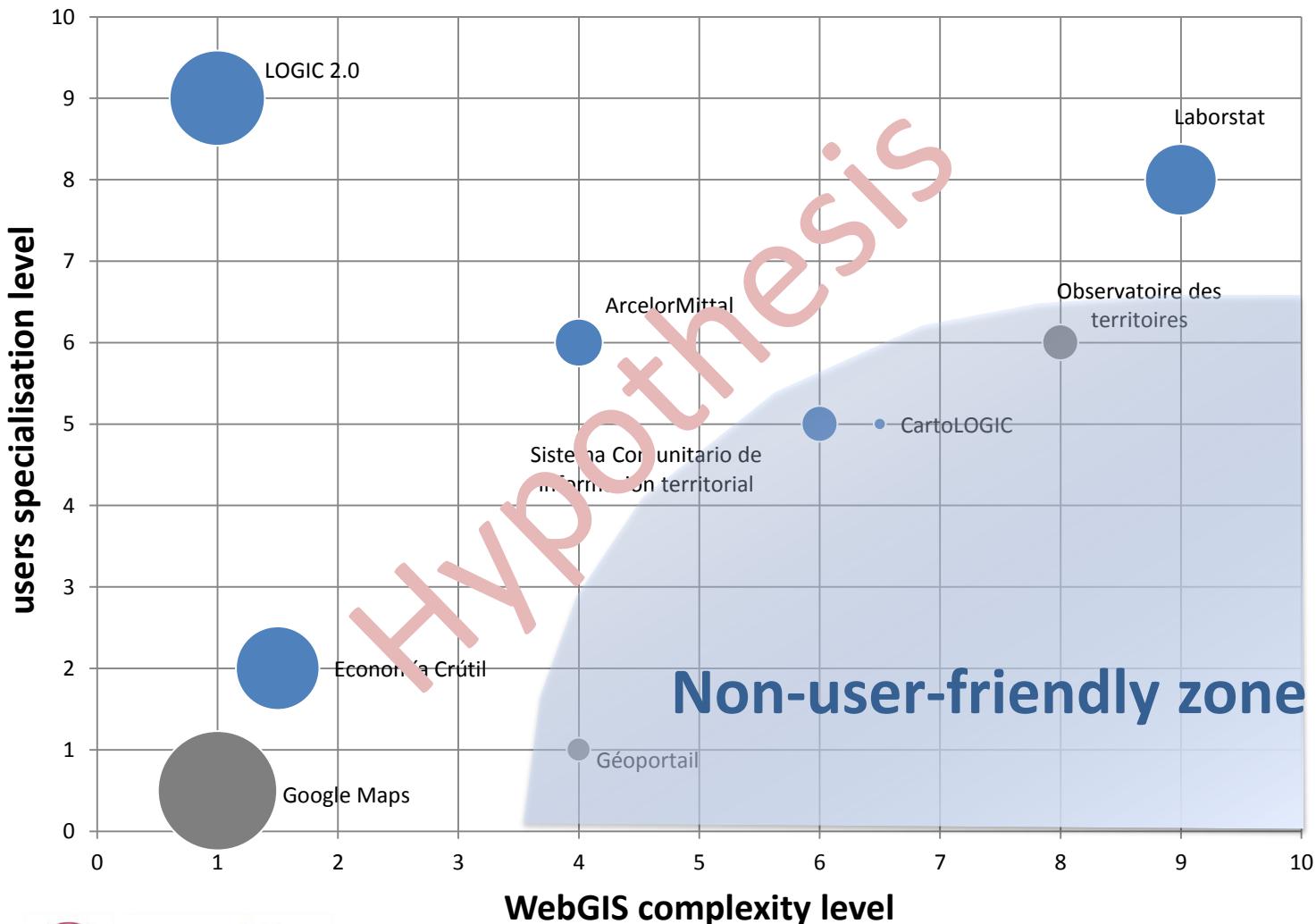
The application must reinforce users efficiency within their field of practice

3. Observations and Analyses

- 6 WebGIS-IT examples (C3IT and SEGEFA projects)



3. Observations and Analyses



3. Observations and Analyses

- Analysis and evaluation of 6 examples taking into account their finalities

Application	Laborstat	Sistema Comunitario info territorial	Economía Crútil	CartoLOGIC	LOGIC 2.0	ArcelorMittal Lieja
Level of use (%)	60	30	70	10	80	20
Ergonomics	5	6	8	4	8	6
Fluency	8	8	9	2	8	7
Navigation	3	3	6	6	9	7
Fonctions	5	7	8	4	8	4
Map	4	3	8	5	8	6
Dynamics	1	1	8	7	7	5
Representation	8	6	7	4	8	5
Referential	3	1	8	3	8	7
Design	7	6	8	4	8	5
Modernity	7	3	7	1	8	5
Disposition	8	8	8	6	8	4
Simplicity	5	7	9	4	9	7

3. Observations and Analyses

- Analysis and evaluation of 6 examples taking into account their finalities

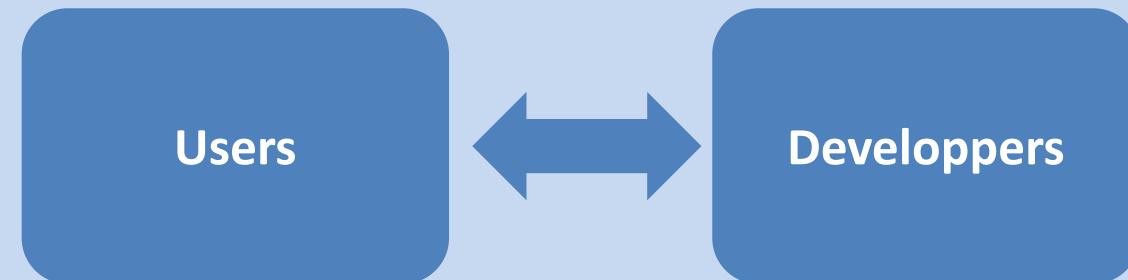
Application	Laborstat	Sistema Comunitario de información territorial	Economía Crútil	CartoLOGIC	LOGIC 2.0	ArcelorMittal Lieja
Territorial resources organisation						
Resources		X	X	X	X	
Parterships	X		X	X	X	X
Knowledge and competency pooling						
Multi dimensions	X	X	X	X	X	X
Co-learning	X		X			X
Participants accountability						
Collaborative management	X		X			
Participants autonomy	X	X	X	X	X	X
Commun results control						
Impacts evaluation	X		X		X	X
Sustainability	X		X		X	X

4. Conclusions and Perspectives

- Towards a quality agreement including rules for WebGIS-IT settings
- Examples of rules:
 - WebGIS-IT= geographic data sharing space. This requires both spatial data bases and OGC standards (WMS, WFS ...).
 - WebGIS-IT = known and recognised. Orientation must be ensure through reference maps and information search tools.
 - ...

4. Conclusions and Perspectives

WebGIS-IT

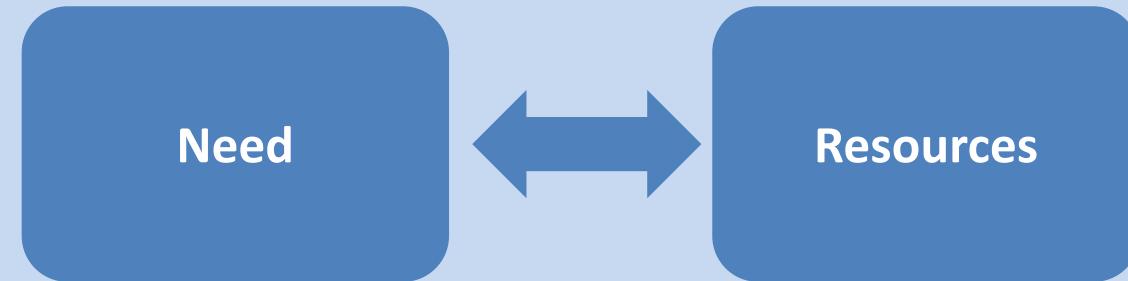


Lateral dialogue

~~Top down development~~

4. Conclusions and Perspectives

WebGIS-IT



Territorial representation