

GEOBS : TOWARD AN OBSERVATORY PROTOTYPE OF THE 65 FRENCH SDIs



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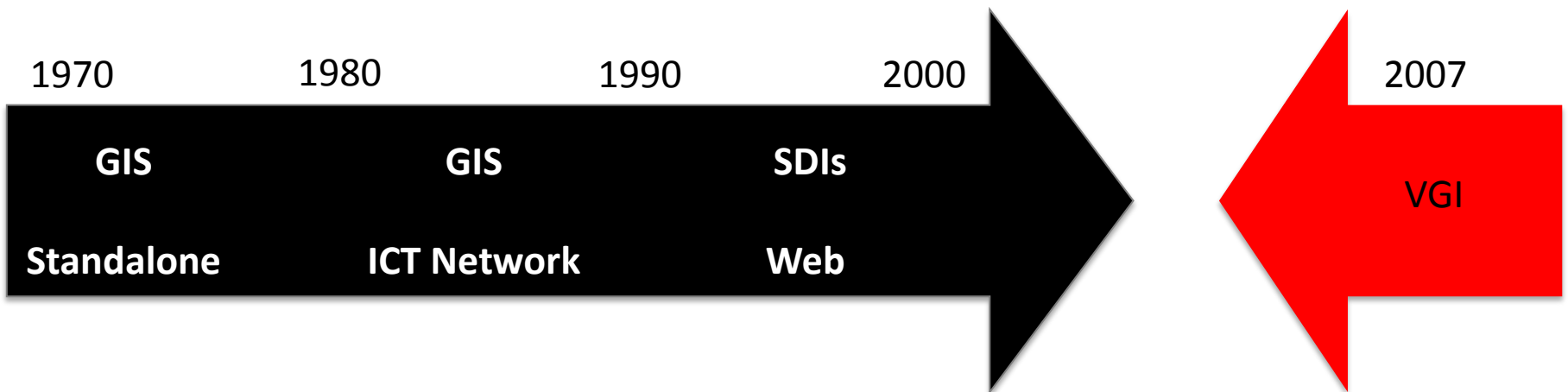
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Financial partners : Region Aquitaine, CNRS, Université de Bordeaux Montaigne

1. Context
2. Goals and scientific positioning
3. Research questions
4. Observatory prototype
5. Preliminary results
6. Outlook and conclusion

International context: democratization of geographical information



International context: multiplication of stakeholders

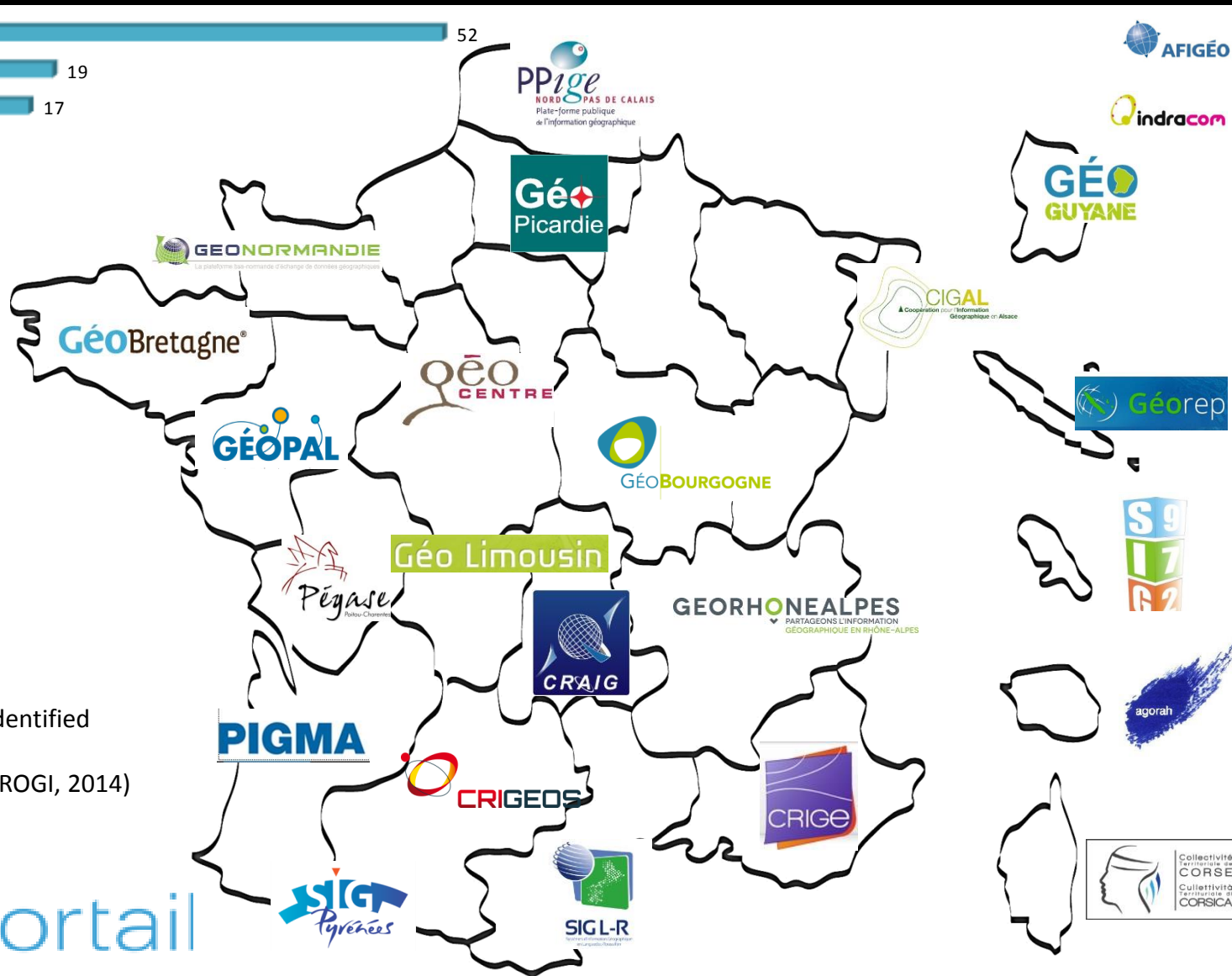


OpenStreetMap



Google

French context: numerous SDIs (multi-level and multi-thematic)



Number of subnational SDIs identified in 2009 and 2011
EUROGI/eSDI-net project (EUROGI, 2014)

French context: complexity of the informational restructuring



OPEN DATA



January 2017



Context: SDI assessment

INSPIRE Directive :

Monitoring follows a quantitative approach every year

List of spatial data sets and services

Indicators to evaluate the Conformity and the Accessibility of metadata and data sets

Even if Reporting covers more qualitative aspects (every 3 years), almost no analysis of data use and relevance

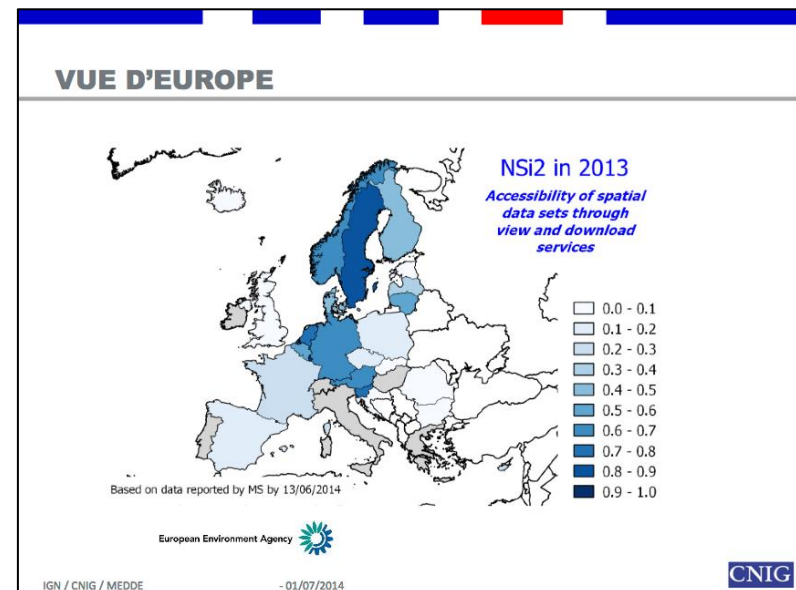


**DIRECTIVE INSPIRE :
OÙ EN EST LA FRANCE EN 2014 ?**

Conférence en ligne du 1^{er} juillet 2014

Francis Merrien, chef de la Mission de l'Information Géographique, MEDDE
Marc Léobet, président de la Commission Règles de mise en œuvre, MEDDE
Pascal Lory, chef de mission « Pôle appui institutionnel CNIG et INSPIRE », IGN

IGN / CNIG / MEDDE - 01/07/2014 CNIG.gouv.fr



GEOBS: Goals and scientific positioning

Goals : Understand new ways to produce and manage environmental knowledge by analysing the (re)positioning of public authorities in the environmental sector

SDIs :

As a research object

As sociotechnical systems (Akrich, 1993)

→ better understanding of the flows and the governance of environmental information

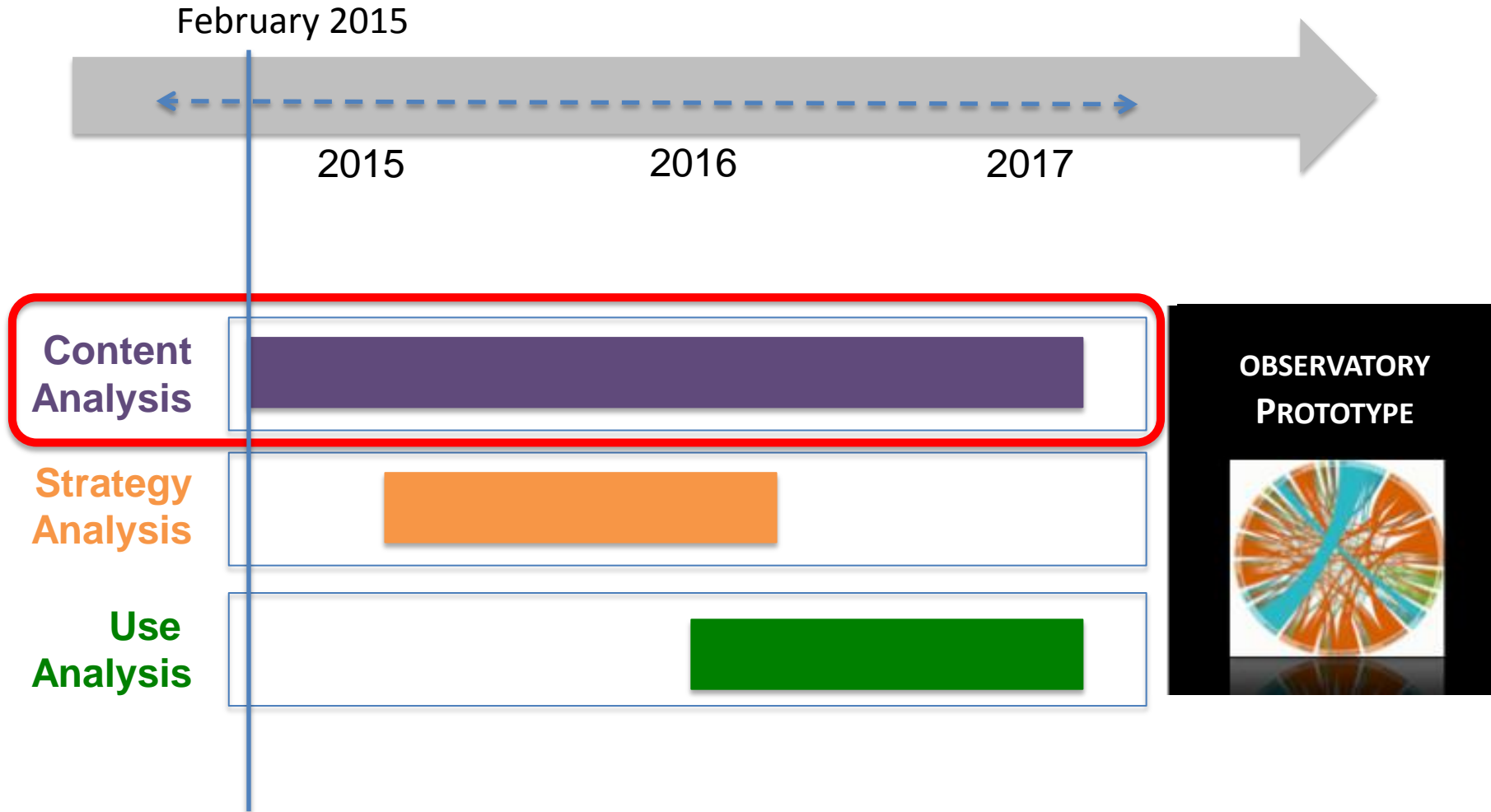
GEOBS: research questions

Question 1: How SDIs influence the ways the environment is represented

Question 2: How SDIs help to manage geographical information flows

Question 3: How SDIs facilitate the ways geographical information are used and appropriated by public bodies

GEOBS : Observatory prototype of the 65 French SDIs based on 3 axis



Preliminary results: Content analysis (Axis 1)

Geocatalogs

[geonetwork]

SDIs

Corpus of metadata

[fichiers XML]

Analysis

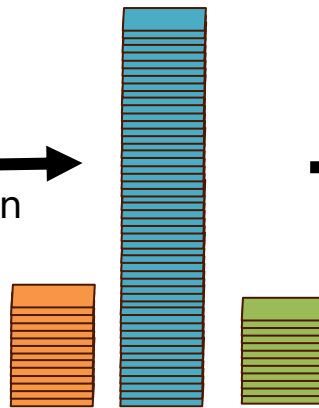
[CSV et GeoJSON]

PIGMA, PEGASE, GeoLimousin



Scraping

by Python



966

3134

504

Query

by XQuery

Who?

What ?

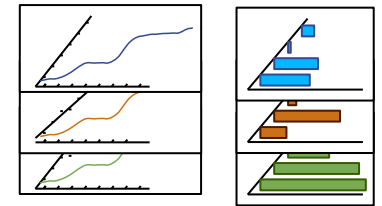
Where ?

When ?



Python

Graphics

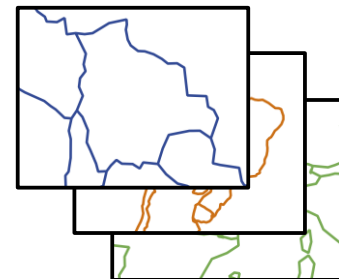


Python

PostGIS

QGIS

Maps

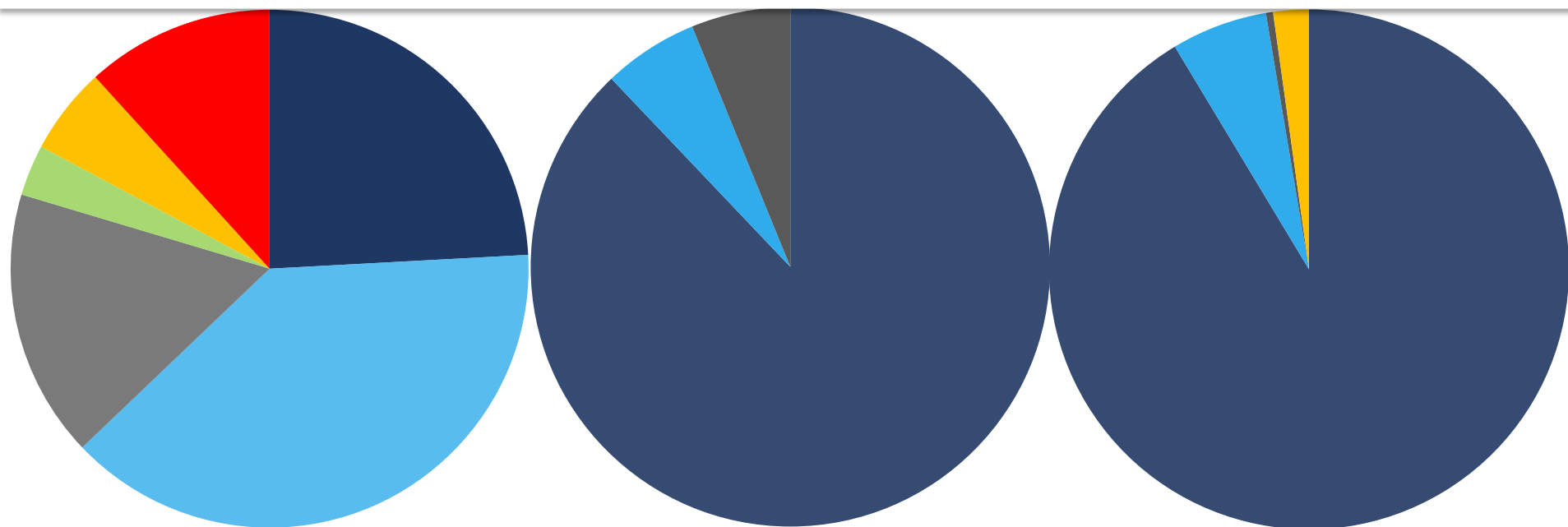


Preliminary results: Content analysis (Axis 1)

PIGMA

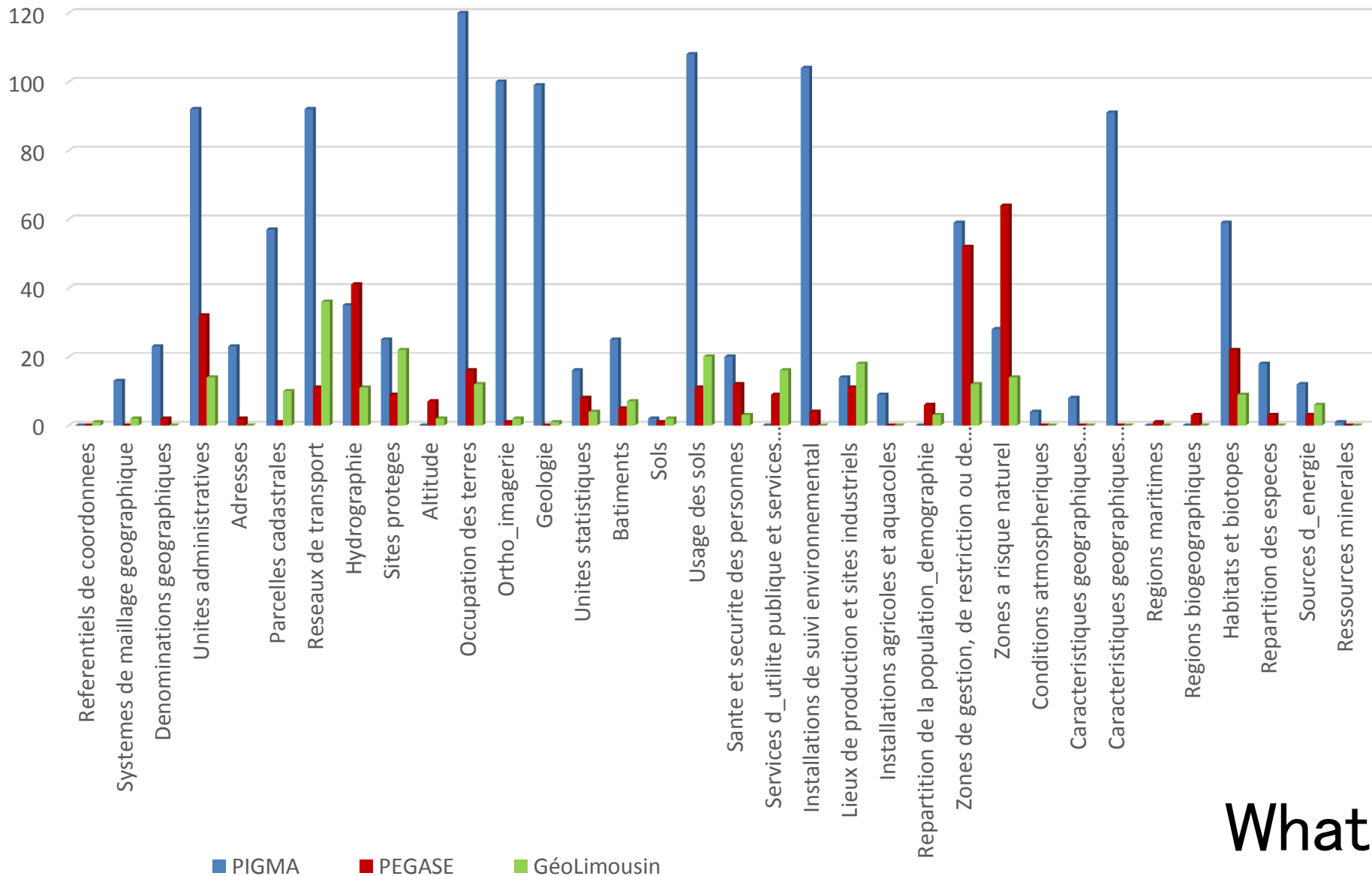
GEOLIMOUSIN

PEGASE



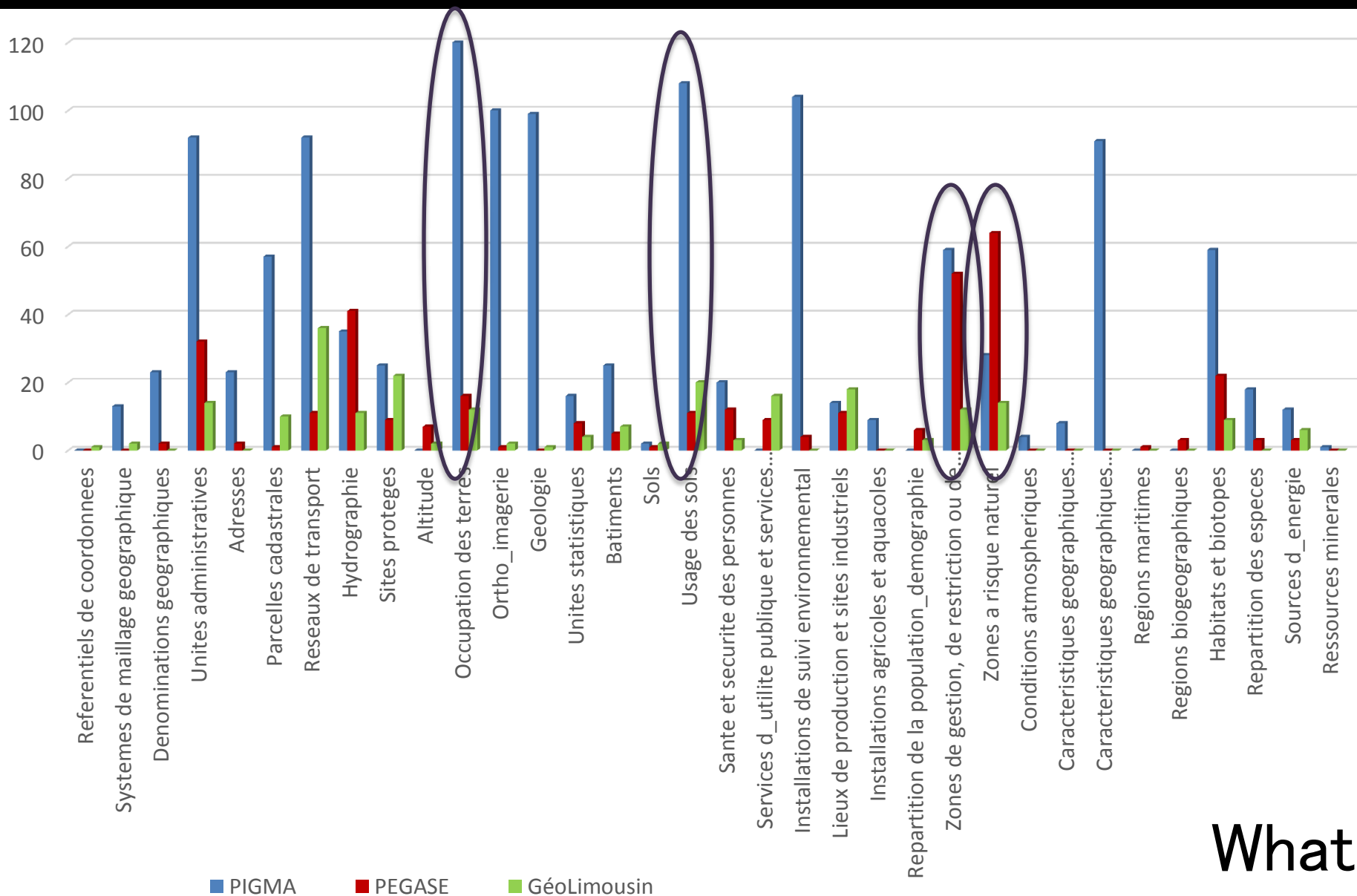
Who?

Preliminary results: Content analysis (Axis 1)



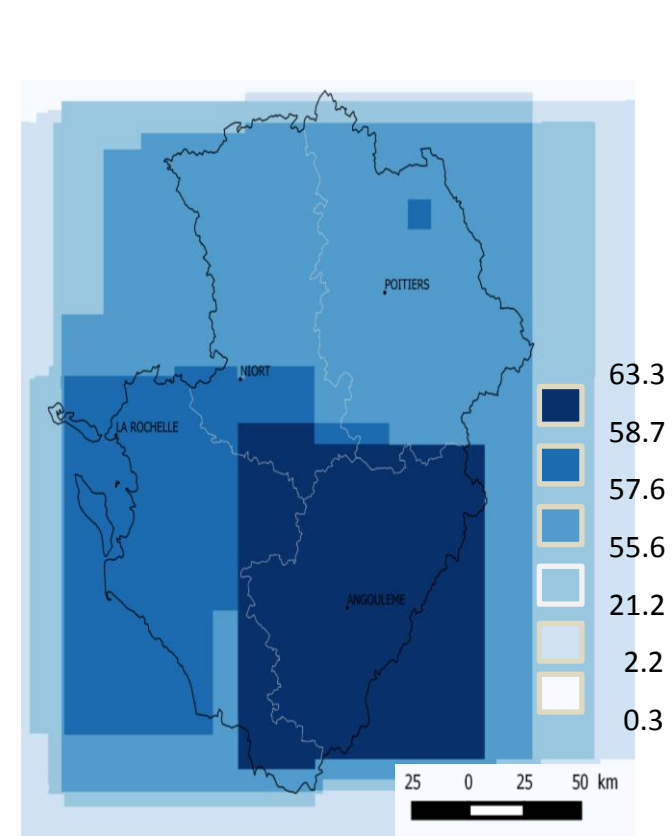
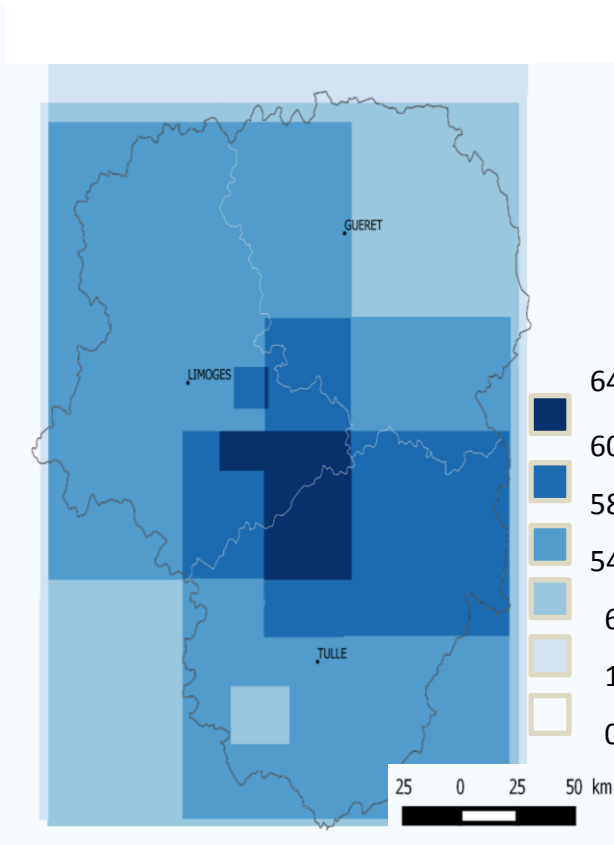
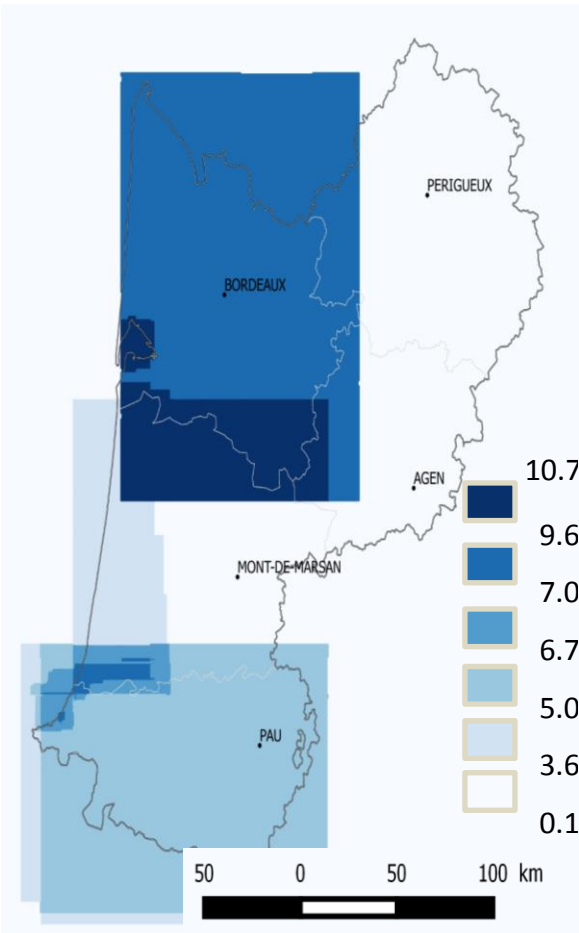
What?

Preliminary results: Content analysis (Axis 1)



What?

Preliminary results: Content analysis (Axis 1)



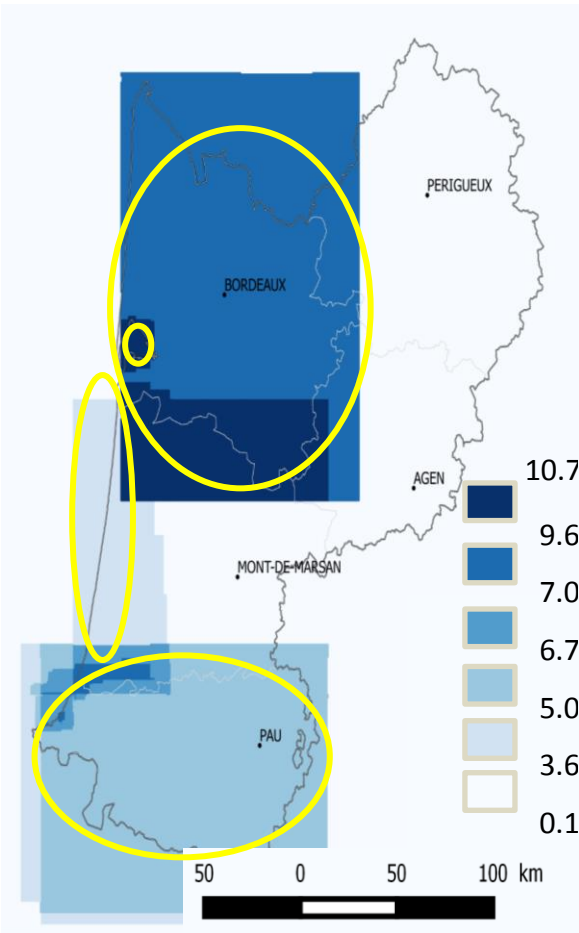
AQUITAINE : PIGMA
N = 3134

LIMOUSIN : GÉOLIMOUSIN
N = 504

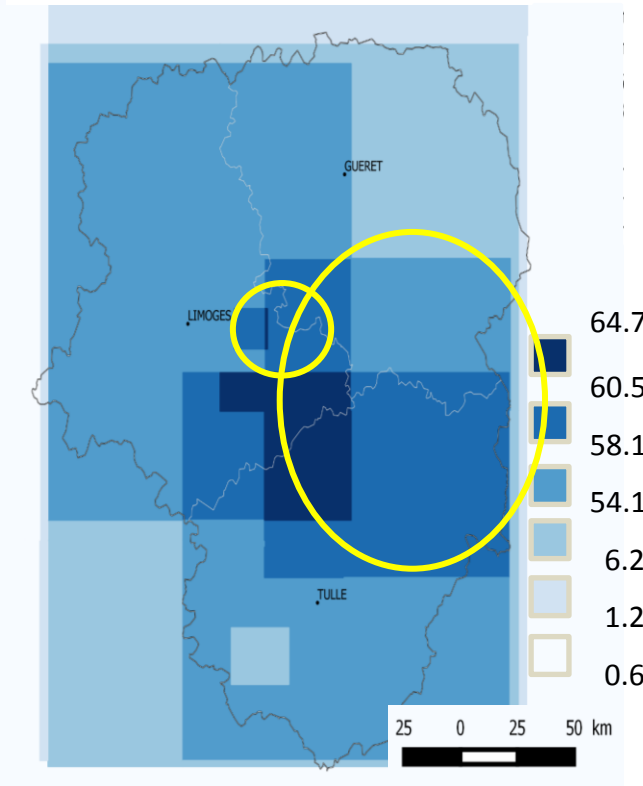
POITOU-CHARENTES : PÉGASE
N = 966

Where?

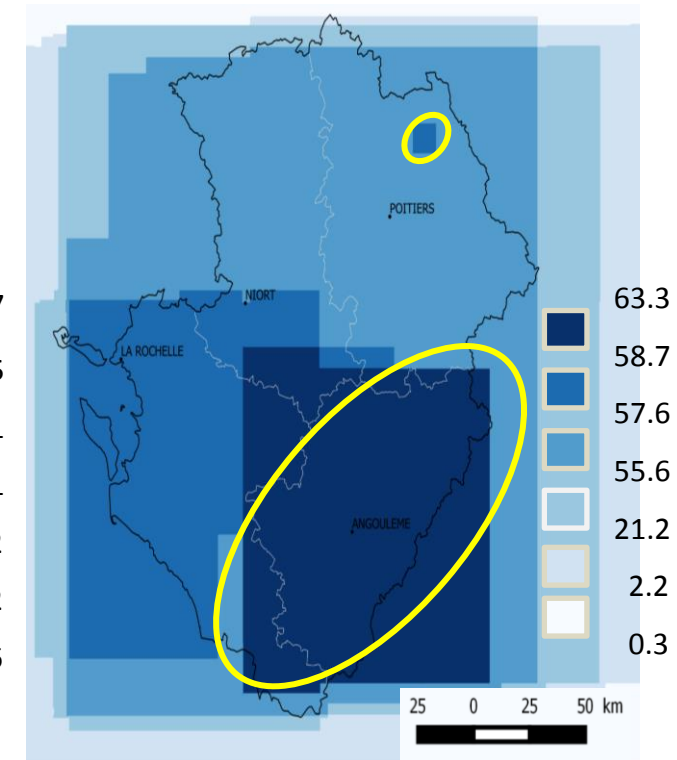
Preliminary results: Content analysis (Axis 1)



AQUITAINE : PIGMA
N = 3134



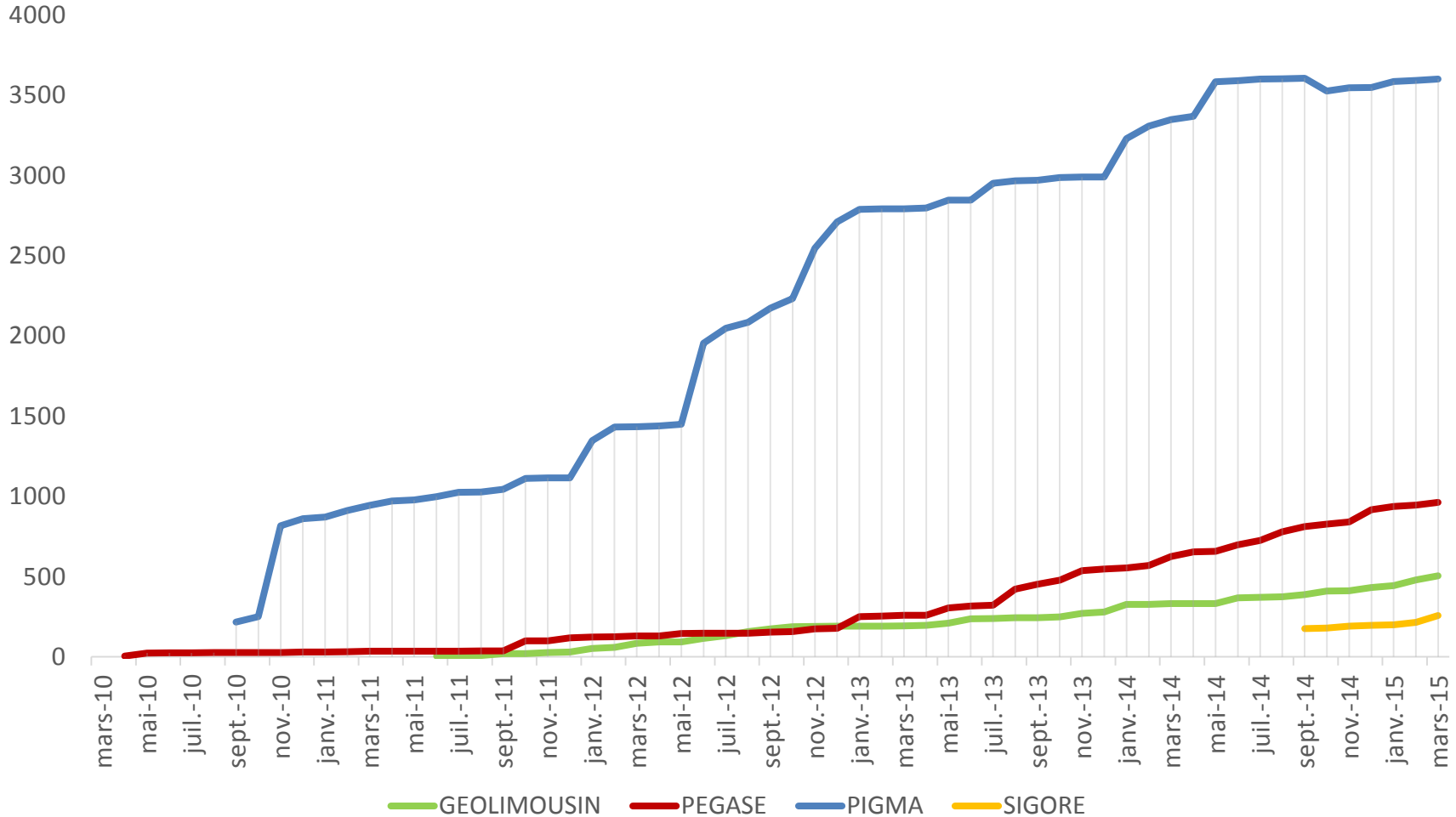
LIMOUSIN : GÉOLIMOUSIN
N = 504



POITOU-CHARENTES : PÉGASE
N = 966

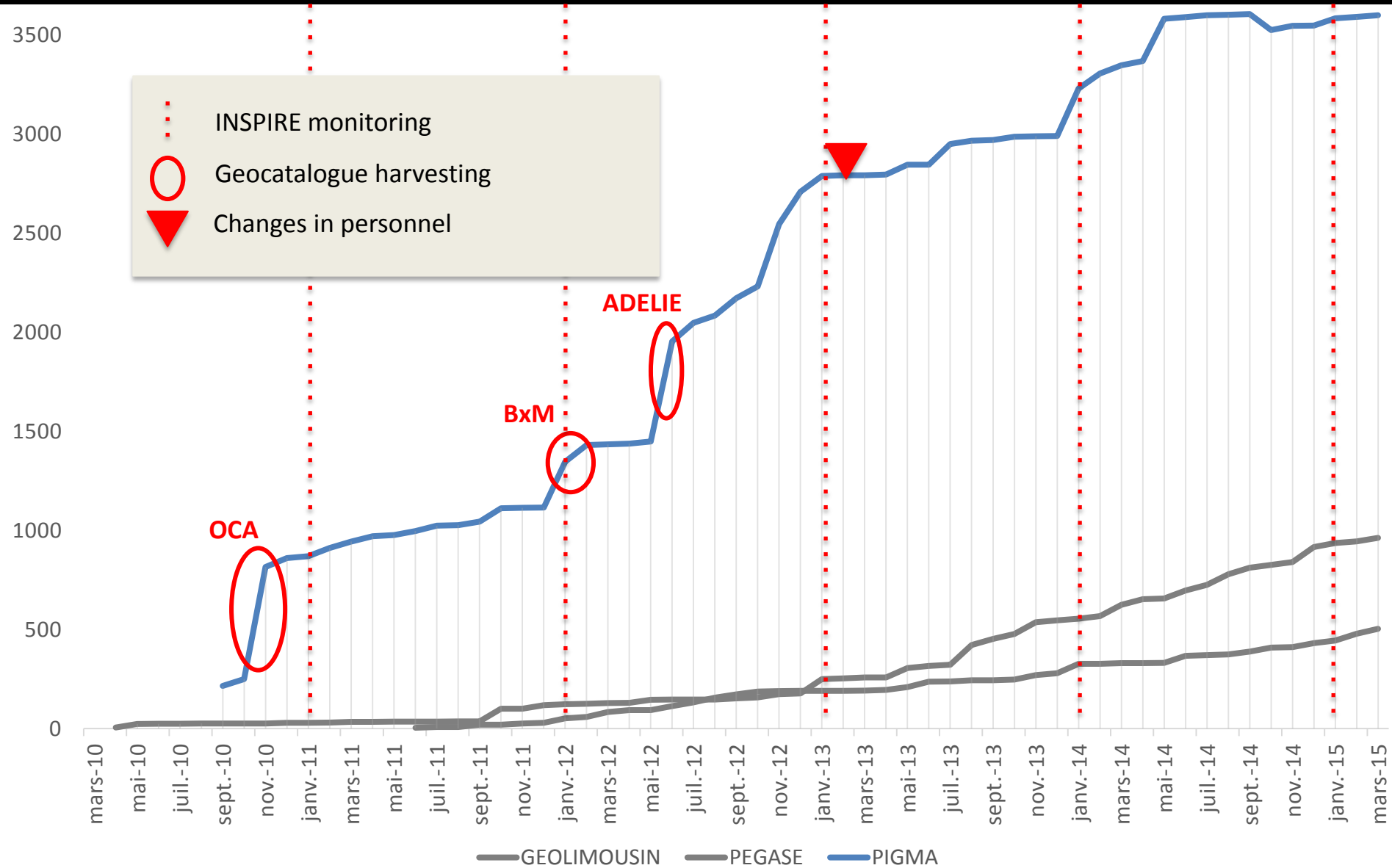
Preliminary results: Content analysis (Axis 1)

March 2010 – March 2015

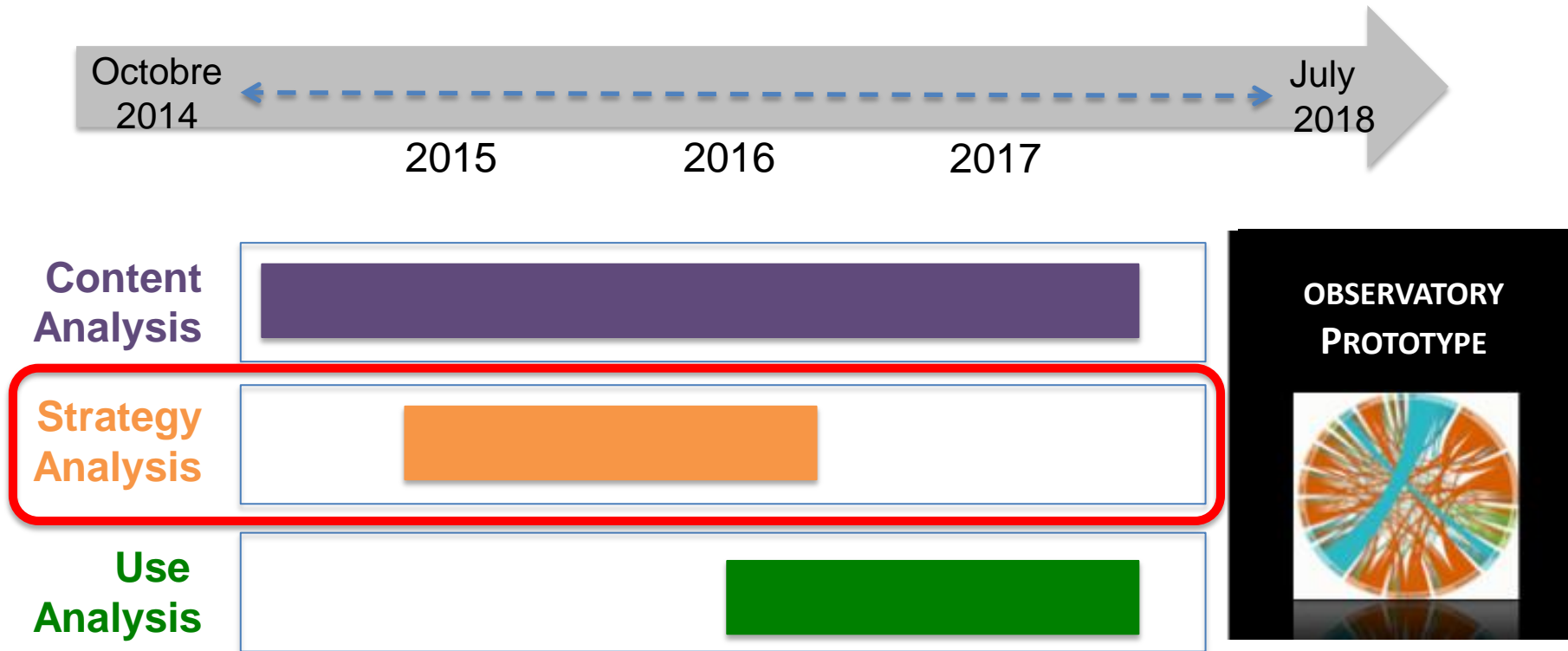


Evolution

Quand ? Quelle temporalité de montée en charge ?



Outlook: Strategy analysis (axis 2)

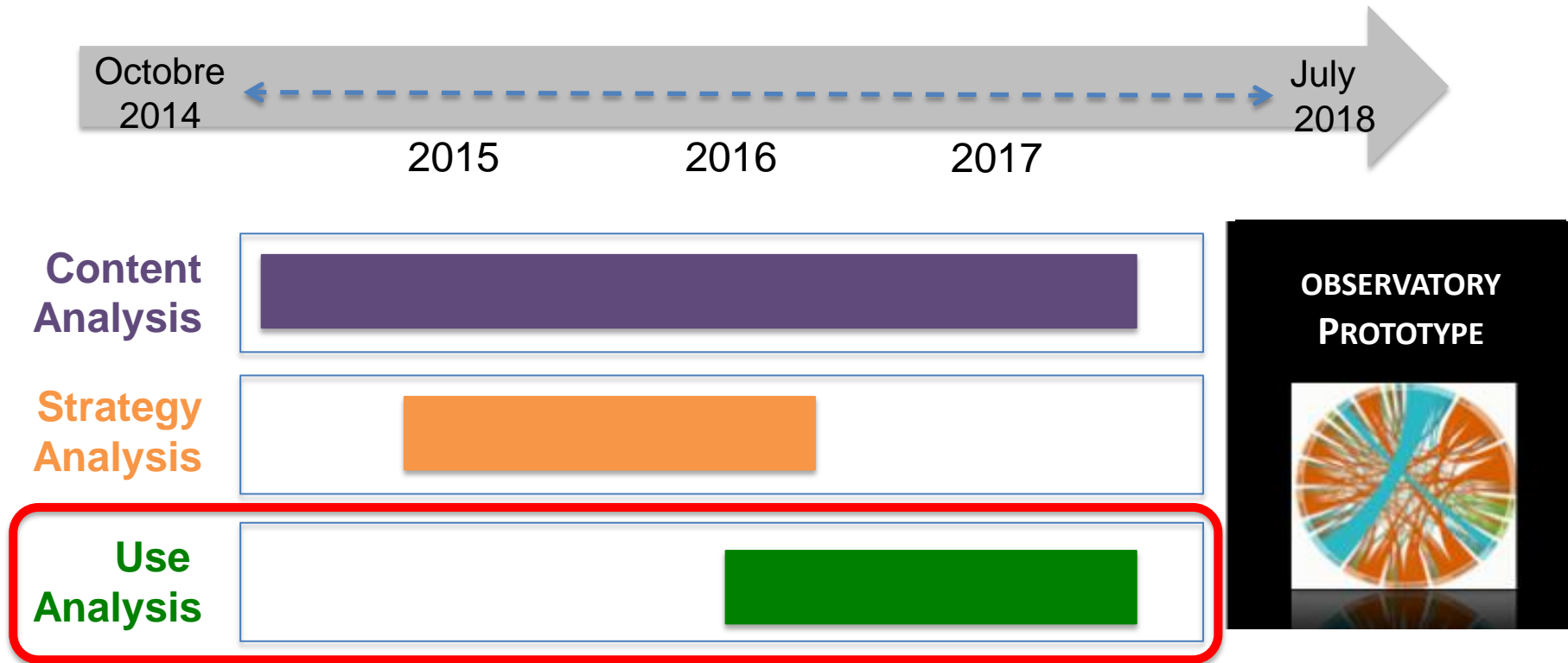


Data collection:

Web site analysis & Interviews with SDI administrators about : SDIs goals, policy, vision

Data Analysis: matrix analysis

Outlook: Use analysis (axis 3)



Data collection: online survey and Interviews with SDI users about : usefulness, effective use, information Effectiveness, etc.

Data Analysis: Integrated methodology that combines, among others, statistical and social network analysis

Conclusion

Observatory prototype → bring greater visibility to institutional geographical information

Integrating content, strategic and use-based approaches → flows of geographical information into perspective

Monitoring the changes in SDIs evolution

Bring some answers concerning the new stakes of environmental governance

THANKS FOR YOUR ATTENTION

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<http://www-ium.univ-brest.fr/pops/projects/geobs>

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