



MINISTÈRE
DU LOGEMENT,
DE L'ÉGALITÉ
DES TERRITOIRES
ET DE LA RURALITÉ

MEASURING INSPIRE COMPLIANCE OF REGIONAL SPATIAL DATA INFRASTRUCTURES

30/09/2016 ADELINE COUPÉ

MEASURING INSPIRE COMPLIANCE OF REGIONAL SPATIAL DATA INFRASTRUCTURES

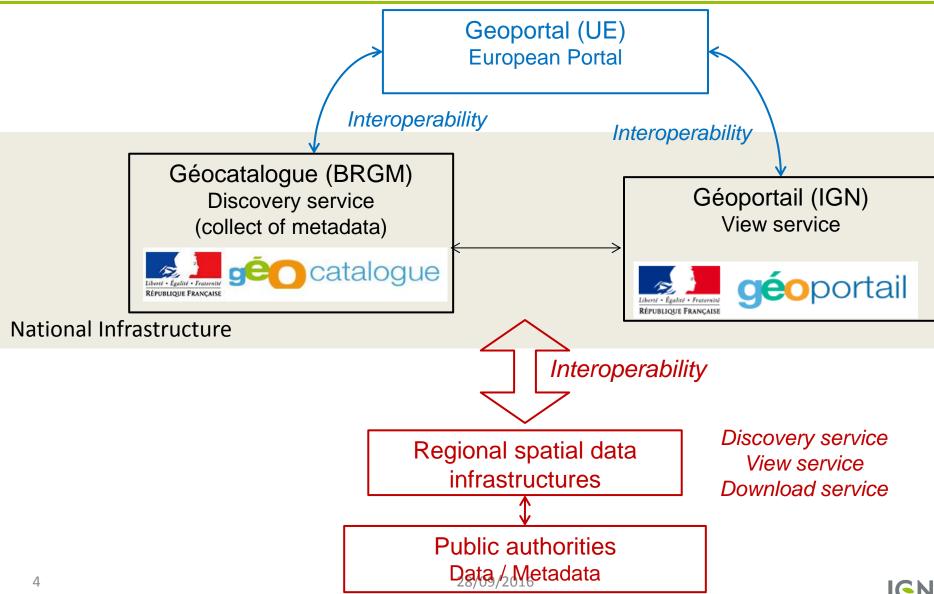
- IMPLEMENTATION OF INSPIRE DIRECTIVE IN FRANCE
 - French national infrastructure
 - Role of the national Institute of Geographic and Forestry Information
 - Inspire and French regions
- MEASURING INSPIRE COMPLIANCE OF REGIONAL SERVICES



IMPLEMENTATION OF THE INSPIRE DIRECTIVE IN FRANCE



INSPIRE INFRASTRUCTURE IN FRANCE



INSPIRE AND IGN

- THE NATIONAL INSTITUTE OF GEOGRAPHIC AND FORESTRY INFORMATION AND INSPIRE:
 - Participation in European Projects, in specifications writing
 - Support in France for the Ministry of Ecology
 - Formation to Inspire Metadata for French regions
 - Formation to Data Model Transformation
 - Measure of service compliance for regional spatial data infrastructure
 - Help with reporting to the European Commission
 - Implementation of the French National Geographical website
 « Géoportail »
 - Concerned as a reference data producer

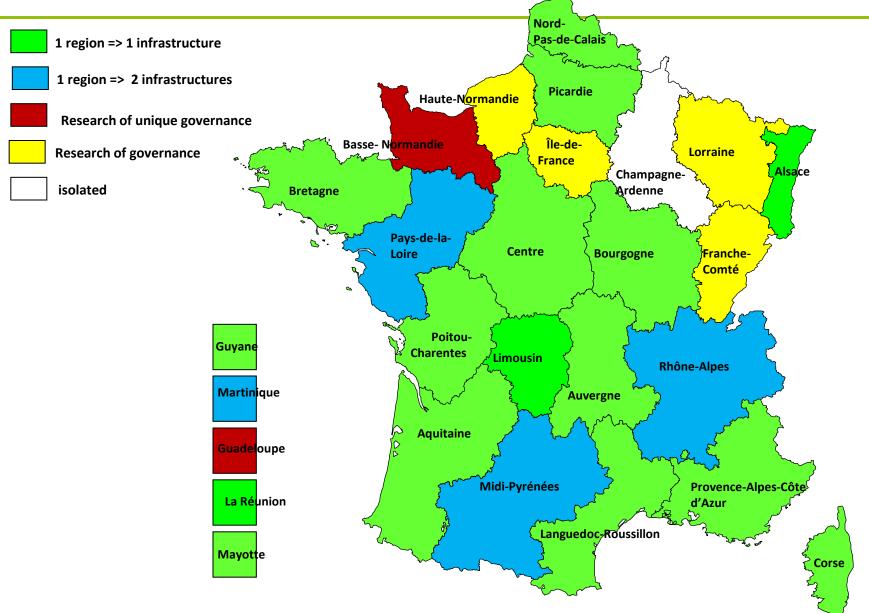


FRENCH REGIONS

- REGIONS ARE A KEY ACTOR IN FRENCH INSPIRE INFRASTRUCTURE:
 - Collect data and metadata from territorial authorities
 - Send metadata to the national discovery service (Geocatalogue)
- IN MANY REGIONS, SPATIAL DATA INFRASTRUCTURES HAVE DEVELOPED
 - Implementation of view, download and discovery services
 - Help for local actors in the implementation of Inspire Directive



REGIONAL SPATIAL DATA INFRASTRUCTURE IN 2014



REGIONS IN 2016

A CONTEXT OF EVOLUTION

From 22 to 13 regions in metropole





MEASURING INSPIRE COMPLIANCE OF REGIONAL SERVICES



ANALYSIS OF WEB SERVICES COMPLIANCE

- IN SUPPORT OF THE MINISTRY OF ENVIRONMENT, IGN OFFERS FREE ANALYSIS ON WEB SERVICES OF REGIONAL SPATIAL DATA INFRASTRUCTURES
- WHAT KIND OF SERVICES?
 - WFS
 - WMS
 - WMTS
- WITH WHAT TOOLS?
 - Spatineo
 - Inspire metadata validator







WHAT IS TESTED?

- With Spatineo
 - Presence of mandatory operations : GetMap, GetCapabilities...

Objectifs de conformité aux normes pour ce service

Ce service est actuellement validé en utilisant les ensembles de tests de standardisation suivants :

Services de consultation INSPIRE, profile INSPIRE de la norme ISO 19128:2005 (WMS 1.3)



Résultats de validation (18/5/2016 13:30)

Valider à nouveau



Services de consultation INSPIRE, profile INSPIRE de la norme ISO 19128:2005 (WMS 1.3): échoué Tests de conformité XML général

1 test réussi

1 test échoué

Validation du schéma

Le document de capacités doit passer la validation mécanique avant le schéma XML

ligne 145, emplacement 9: string value " does not match pattern for xs:NMTOKEN

ligne 170, emplacement 9: string value " does not match pattern for xs:NMTOKEN

ligne 197, emplacement 9: string value " does not match pattern for xs:NMTOKEN

linne 222 emplacement 9: string value "idnes not match nattern for xs:NMTOKEN



WHAT IS TESTED?

- With Spatineo
 - Verification of the result of the requests

Temps de réponse

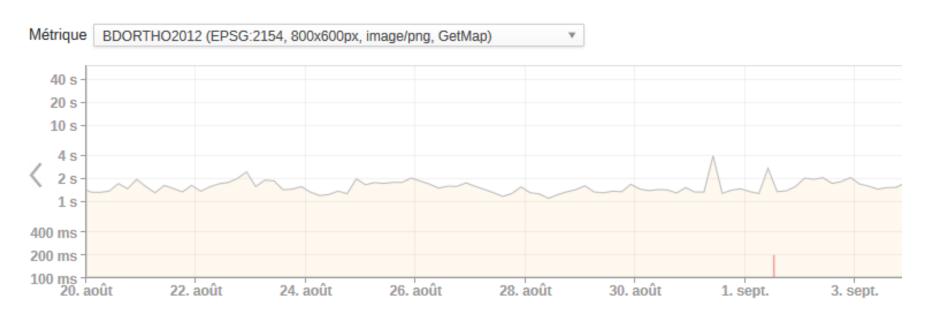
Temps de réponse (ms) †	Heure des requêtes	Résultat	
17552	11/9/2016 22:40	√	Afficher les détails
12849	5/9/2016 22:38	√	Afficher les détails
12059	20/8/2016 22:37	✓	Afficher les détails
11973	2/9/2016 22:43	√	Afficher les détails
11965	21/8/2016 13:32	✓	Afficher les détails
11935	25/8/2016 22:38	√	Afficher les détails
11889	22/8/2016 22:42	✓	Afficher les détails
11371	18/9/2016 22:41	√	Afficher les détails
11231	22/8/2016 22:37	✓	Afficher les détails
10931	21/8/2016 22:37	√	Afficher les détails

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WHAT IS TESTED?

- With Spatineo
 - Performance

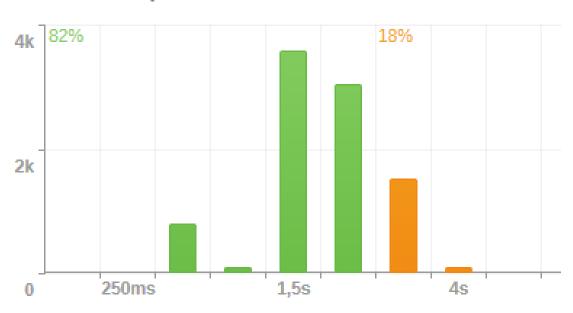




WHAT IS TESTED?

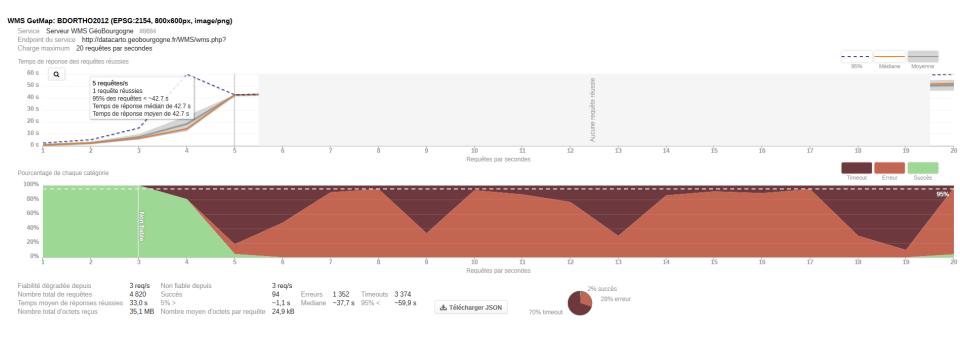
- With Spatineo
 - Availability

Disponibilité du service 99,9% de la période sélectionnée



WHAT IS TESTED?

- With Spatineo
 - Capacity





WHAT IS TESTED?

- With Inspire validator
 - Service Metadata compliancy

Schema Validation Issues

Please note that schema validation issues could likely be at the origin of the issues reported in the 'Inspire Validation Issues' section below.

Relevant documentation:

• See INSPIRE Metadata Implementing Rules: Technical Guidelines based on EN ISO 19115 and EN ISO 19119 (Version 1.2)

Validation Schema(s) used for validation: 19139 XSchemas TS RC (2006 May 4)

In content of element <SV_ServiceIdentification>: The content model does not allow element <Q{.../srv}coupledResource> to appear immediately after element <Q{.../srv}operatesOn>. Expected <Q{.../srv}operatesOn> or nothing. at column 31, line 2239

Inspire Validation Issues

- Information on the degree of conformity with the implementing rules on interoperability of spatial data sets and services is required

 Relevant documentation:
 - See TG Requirement 28 in INSPIRE Metadata Implementing Rules: Technical Guidelines based on EN ISO 19115 and EN ISO 19119 (Version 1.3)
 - See Metadata for spatial data services in Commission Regulation (EC) No 1205/2008 of 3 December 2008 implementing Directive 2007/2/EC of the European Parliament and of the Council as regards metadata

Expert documentation

• UML Requirement Diagram



CONCLUSION



CONCLUSION

- FIVE REGIONS IN THE PROCESS OF BEING ANALYZED.
- FIRST OBSERVATIONS:
 - Service metadata are often absent or don't respect Inspire requirements
 - Performance and capacity on big data layers such as imagery don't reach Inspire requirements.

