

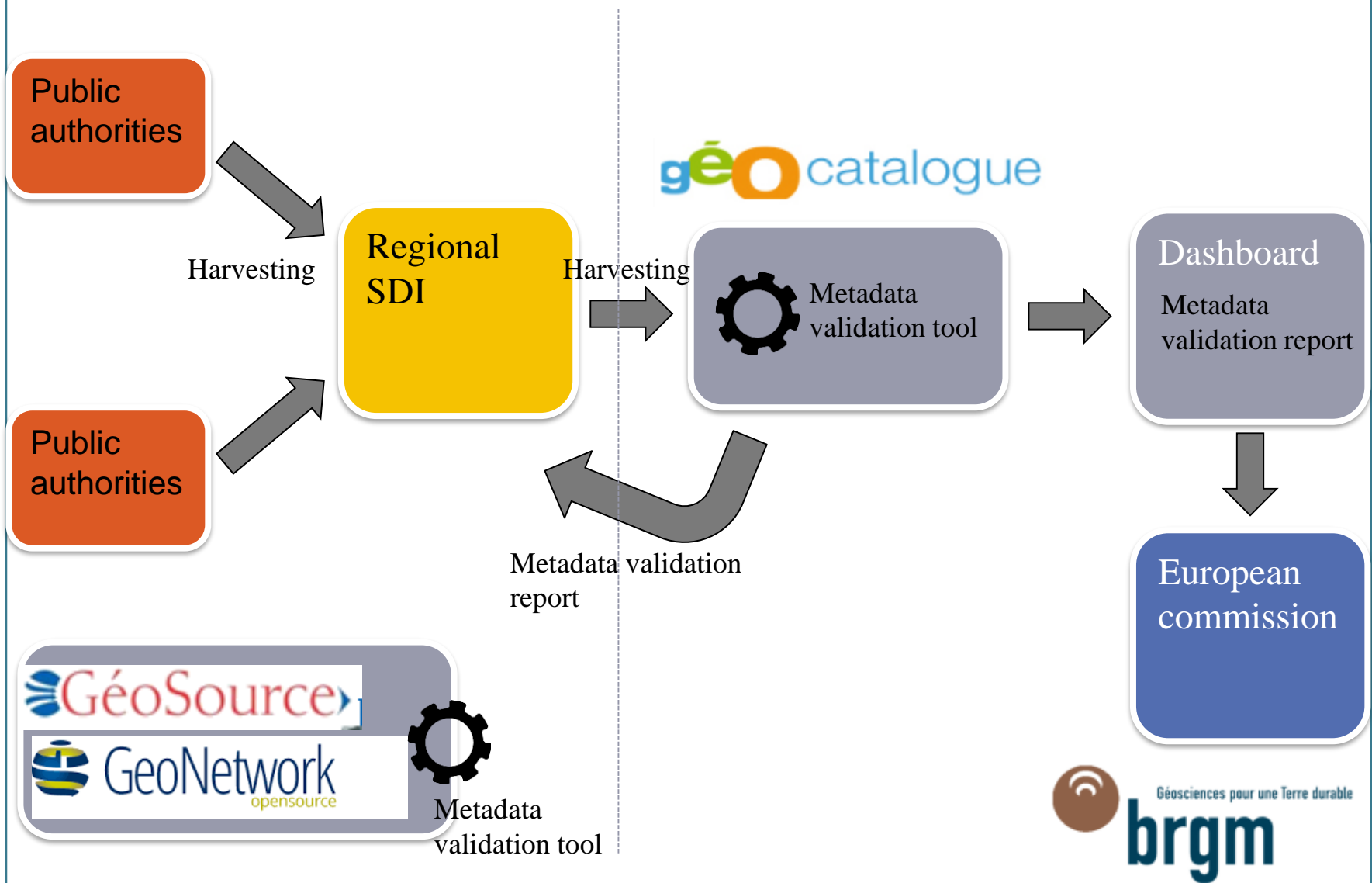
Validator for french Géocatalogue

Validation Workshop, Marne-la-Vallée, 2nd to 3rd June 2016

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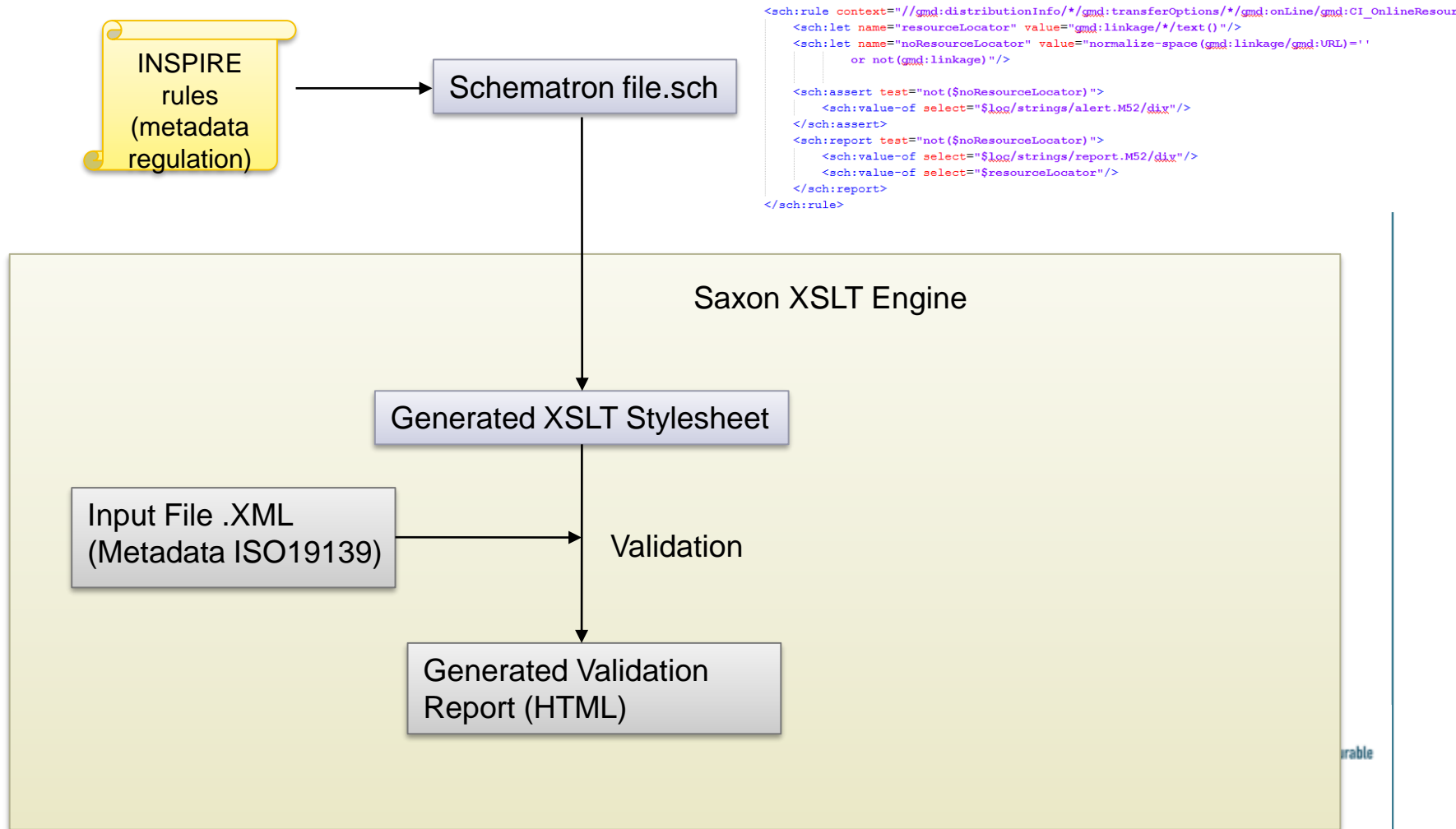
French general model for INSPIRE monitoring



Why a metadata validator in Géocatalogue ?

- > **In the beginning, the european validator was not adapted for national needs because of :**
 - Not a multi-file validation
 - Multilingual not supported (eg. INSPIRE Themes)
 - Differences in ISO 19139 schemas between Geoportal validator and Geosource/Geonetwork (eg gmd:language)
 - Differences of interpretations of the standard/rules (eg the use of thesaurus name to identify INSPIRE theme)
- > **Need to have a common interpretation of INSPIRE requirements vs standards**
 - Works of MIWP-6 group on validation (ATS)
- > **The validator can be extended according to specific rules (national guidelines)**
- > **The tool, based on schematron language is easily reusable by other applications (eg. GeoNetwork)**

Technical implementation of the metadata validator



Metadata validator in GéoSource/GeoNetwork

> Integrated in Géosource / Geonetwork in the editor sheet

- INSPIRE rules
- ISO rules
- GeoNetwork rules

🗑️ 🏠 ⚙️ ✓ Valider ↺ Annuler ➡ Enregistrer & fermer 📄 Enregistrer la fiche 👁️

▼ Ressource

Intitulé de la ressource *

ROUTE 500@ - thème administratif - territoire français

Résumé de la ressource *

ROUTE 500@ est un produit numérique entièrement dérivé de la Base de Données Cartographique (BD CARTO®), une des grandes bases de données géographiques initiées par l'Institut Géographique National sur le territoire français. Il a pour vocation de fournir le support indispensable à diverses applications relatives au transport routier et de proposer les éléments d'habillage nécessaires à l'établissement de plans cartographiques à des échelles voisines du 1 : 250 000.

Type de ressource

☒ Ensemble de séries de données
☐ Série de données

Localisateur de la ressource

http://professionnels.ign.fr/route500

Identificateur de ressource unique

-- Identifiant créé pour identifier de manière unique la série de données décrite --
http://localhost:8080/geosource/metadata/srv/185f4090-e480-42bc-8768-1028930db2c1.
✚
✚
✚ Créer un identifiant

Ressources associées ➕

🔗 Ressources en ligne ➕

http://professionnels.ign.fr/route500 ✖

Validation

Erreur 4 erreurs

INSPIRE Validation Rules 38 / 40
INSPIRE Validation Rules

ISO Validation Rules 24 / 27

Geonetwork Validation Rules 2 / 2

Terre durable

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Metadata validator in Géocatalogue

> Available in the Géocatalogue public web site

- <http://www.geocatalogue.fr/ServicesValidationMD.do>
- Upload one (XML) or a set of metadata (ZIP)
- Validation report

VALIDATION DE MÉTADONNÉES

Fichier de métadonnée : Metadata.xml

Type de fichier :

Métadonnée	Règles	Résultats de la validation
Metadata	INSPIRE	Le thème INSPIRE est manquant (mot clé issu du thésaurus "GEMET INSPIRE themes") ✖

Metadata validator in Géocatalogue

> Integrated in Géocatalogue

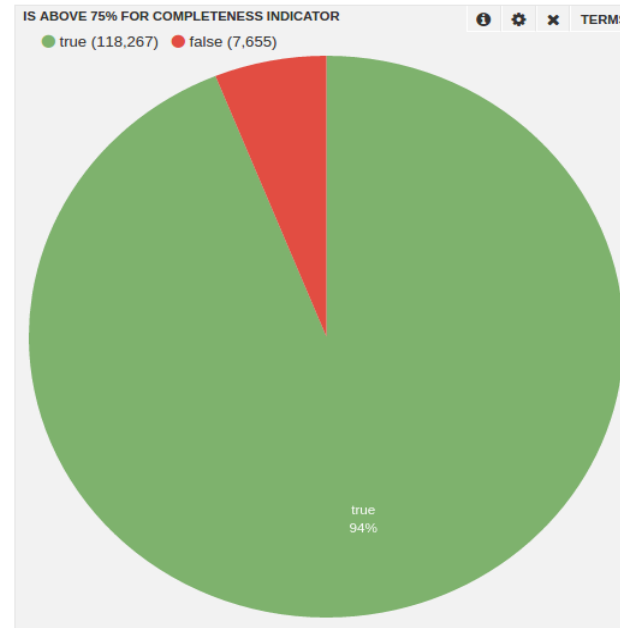
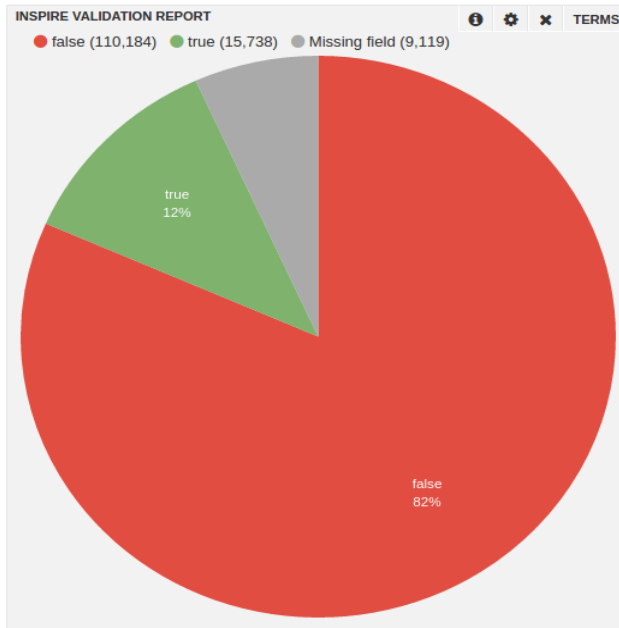
- Available only for metadata providers to check their metadata

Adhérent	Métadonnée	Résultat des règles INSPIRE	
mcc	Localisation des monuments du bien « Monuments romains et romans d'Arles »	La langue de la ressource est manquante ou a une valeur incorrecte L'identificateur de ressource unique est manquant Le thème INSPIRE est manquant (mot clé issu du thésaurus "GEMET INSPIRE themes") Une contrainte sur la ressource est requise (voir MD_Metadata.identificationInfo[1].MD_Identification.resourceConstraints) Le nom et l'email de l'organisation responsable de la ressource sont manquants La langue des métadonnées est manquante	<input type="checkbox"/>
dgfip	plan cadastral de la commune de SAINT-MARTIN-DE-VALAMAS (ARDECHE)	Métadonnée conforme	<input type="checkbox"/>
dgfip	plan cadastral de la commune de SAULX-LE-DUC (COTE D OR)	Métadonnée conforme	<input type="checkbox"/>
dgfip	plan cadastral de la commune de SAINT ANTOINE (ISERE)	Métadonnée conforme	<input type="checkbox"/>

Validation results in the dashboard

- > Based on the DAOBS application**
- > Developed for MIWP-16 group (monitoring & reporting)**
- > Integrated and customised in the Géocatalogue infrastructure**
- > Coupled with other tools for services & metadata validation (configurable with a threshold value)**
 - Services validation : ETF
 - Metadata validation :
 - JRC validator
 - **Géocatalogue database**

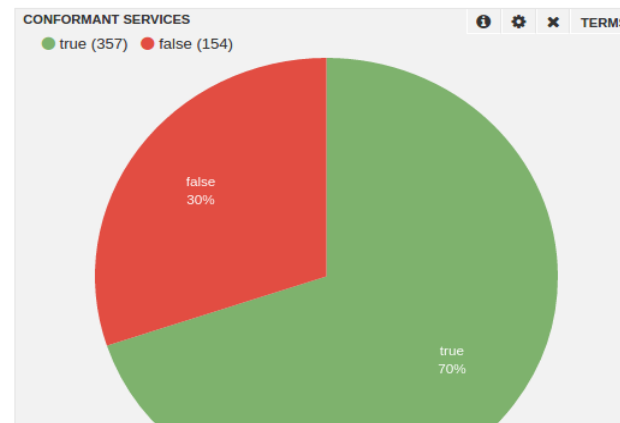
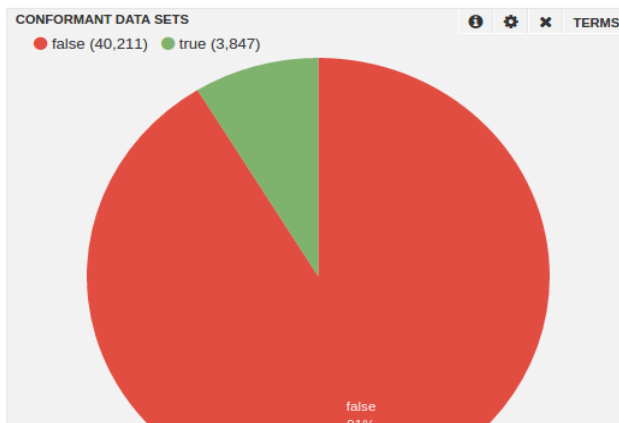
An overview of the validation reports in the dashboard



Validation is computed using the [INSPIRE validator](#).

A record is considered valid for INSPIRE if completeness indicator is above 75% (see `isAboveThreshold` field).

Even if completeness indicator is 100%, a record may be displayed as invalid in the INSPIRE validation chart due to INSPIRE validation warnings (eg. if the URL of a coupled resource point to an invalid link).



Conformity of datasets and services is declared in the metadata records.

Services validation

Service validation report

SEARCH



QUERY

TOTAL HITS

598

Load

HITS

range must



field : etfCompletenessIndicator

from : -1

to : 100

range must



field :
etfCompletenessIndicatorOptional

from : -1

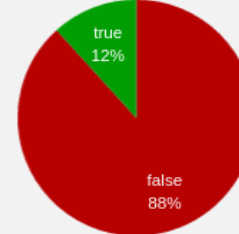
to : 100

FILTERING

ETF MANDATORY

TERMS

● false (264) ● true (35)
● Missing field (0)



ETF OPTIONAL

TERMS

● false (292) ● true (7)

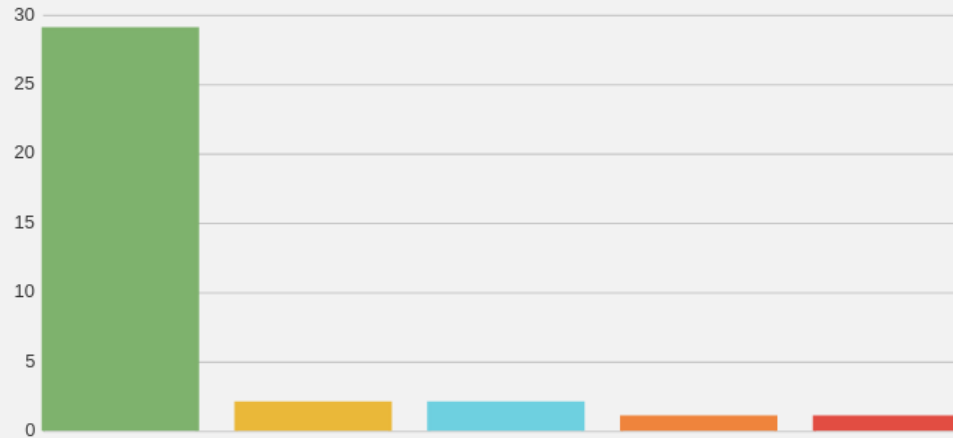


TEXT

COMPLETENESS INDICATOR

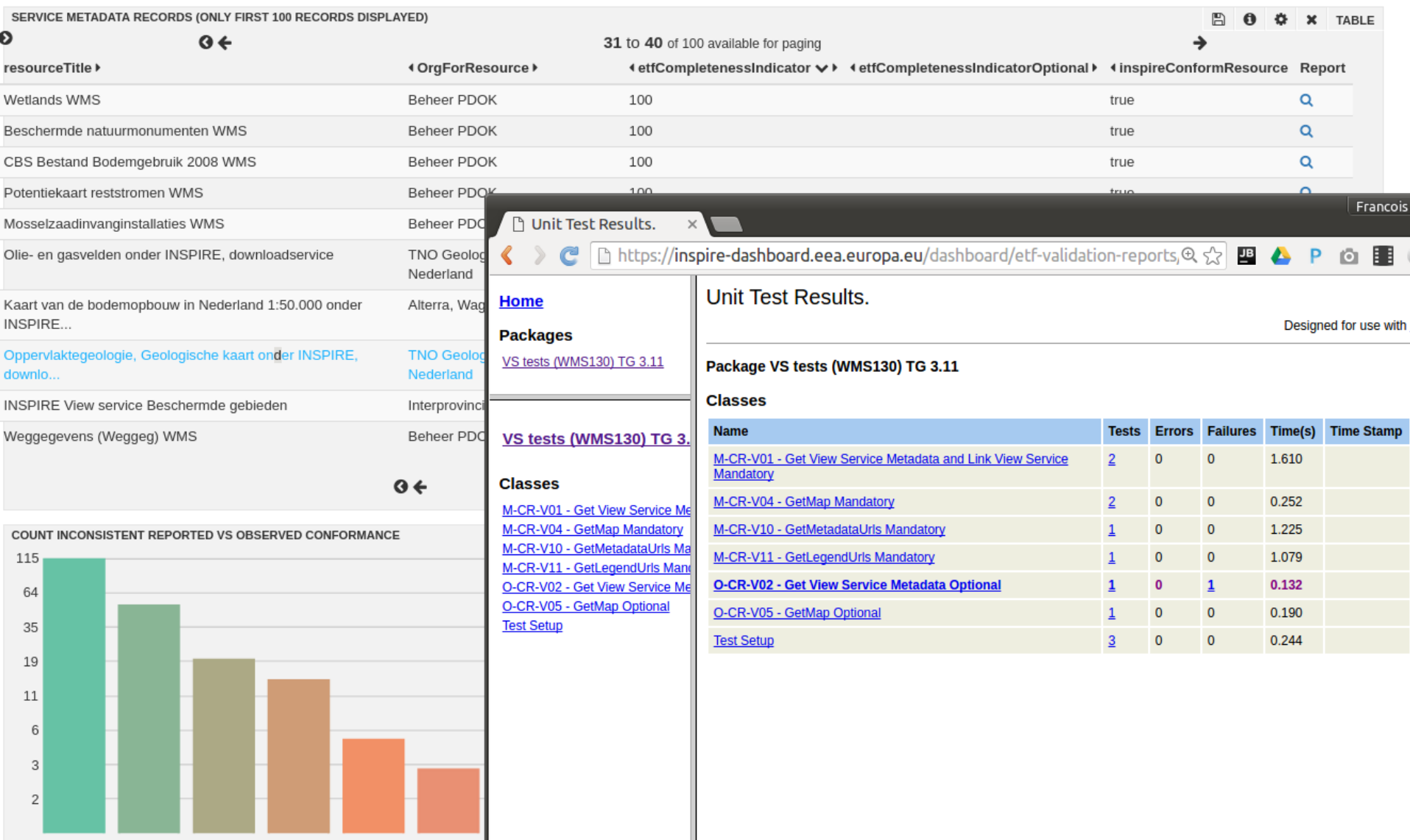
Note that the completeness indicator currently weighs all tests equally. Please, consider that failures in some tests may have much more impact as failures in other tests. So use the completeness Indicator with caution

VALID SERVICES PER ORGANISATION



Organisation	Count
Beheer PDOK	29
Royal Netherlands Meteorological Institute (KNMI)	2
Alterra, Wageningen UR	2
TNO Geologische Dienst Nederland	1
Het Waterschapshuis	1

Services validation



Conclusions

- > Metadata validation tool developped for Géocatalogue is used for french monitoring in the dashboard**
- > Integrated in Géosource/Geonetwork (widely used by metadata providers)**
- > Based on schematron language, it can be easily reused and adapted for specific rules**
- > Perspectives :**
 - Implement ATS from MIWP-6 works
 - Validate the metadata setting a CSW point (publicly available for data providers)
 - The validator to be accessible through a webservice
 - There is no tool to validate network services
 - Use of common validator (from MIWP-6) for INSPIRE rules
 - Schematron tool for specific rules ?



The background of the slide features a geological map of the Paris Basin, showing various geological units labeled with codes like 'h3a-b', 'h3c', 'Gx', 'h3b-2', 'deb', 'dr-h1a', 'h1b', 'h2', 'h3', 'h3G', 'h3a', 'de-h1a', 'h1b-2', 'h3a', 'de-h1a', 'h1b-2'. A 3D perspective is overlaid on the map, with coordinates '2113.21 6766 13.0' at the top and '-1.89 3740.46 -625.5' at the bottom. In the top right corner, there is a small inset map showing the location of the Paris Basin within France, with labels like 'Monte Regilio', 'Pozzo', 'Lava Martoria', and '881'.

Thanks for your attention! Any questions?

Etienne Taffoureau, BRGM