



# Evaluation of INSPIRE implementation in France by computing indicators and analysing data with Daobs application

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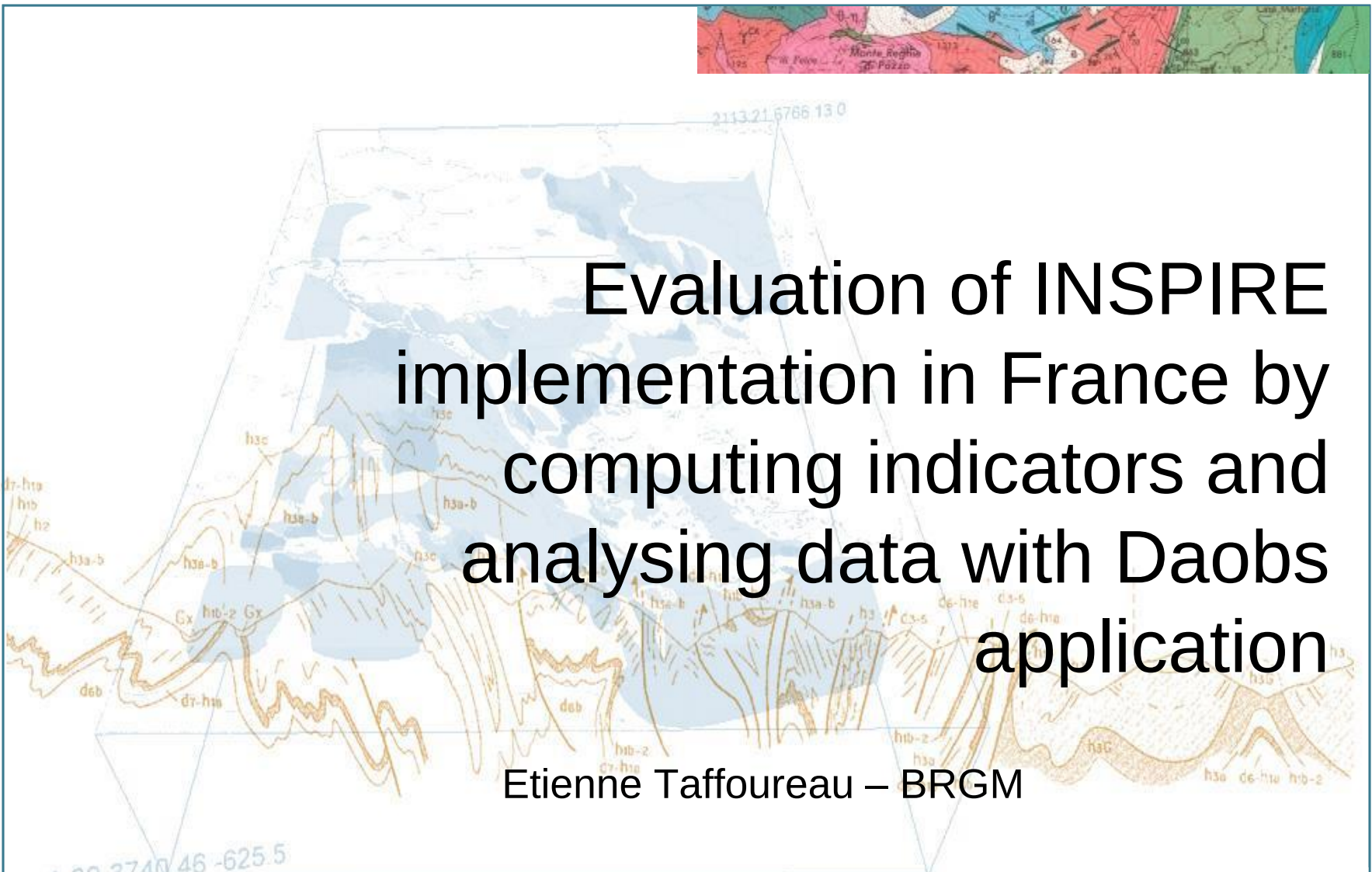
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# Evaluation of INSPIRE implementation in France by computing indicators and analysing data with Daobs application

Etienne Taffoureau – BRGM

# Context of DAOBS project

- > **DAOBS : a web application for creating & publishing dashboards**
- > **Developed in MIWP-16 (monitoring & reporting)**
  - Working group composed of experts from member states : FR, NL, DE, UK, IT, PL, ...
  - Conducted by European Environment Agency (EEA)
- > **European dashboard :**
  - <https://inspire-dashboard.eea.europa.eu/official>
- > **Based on Solr (search engine) & Banana (dashboard)**
- > **Published as open source (EUPL license) :**
  - <https://github.com/INSPIRE-MIF/daobs>

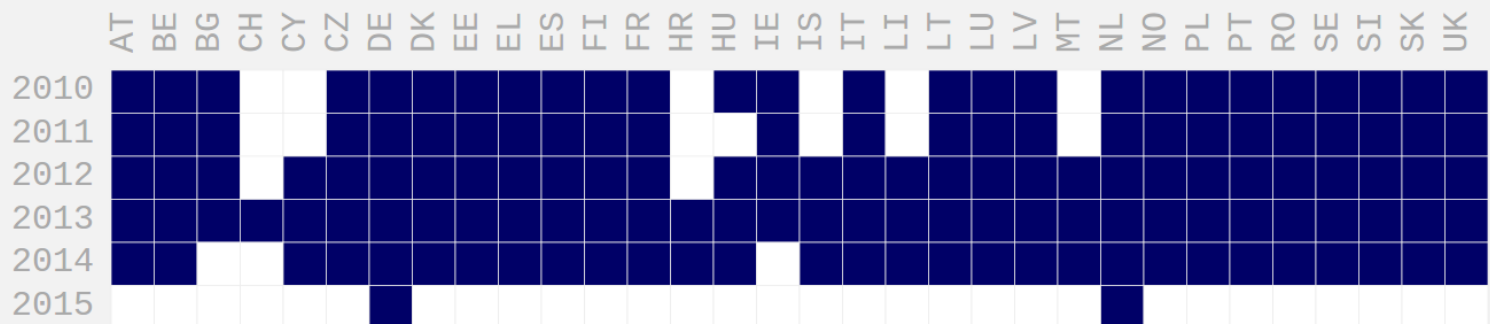
# Objectives of DAOBS project

## > Simplify INSPIRE reporting process

- Compute indicators from metadata catalogues (from MS)
- Provide XML file to European Commission

## > Show evolution of indicators in INSPIRE dashboards

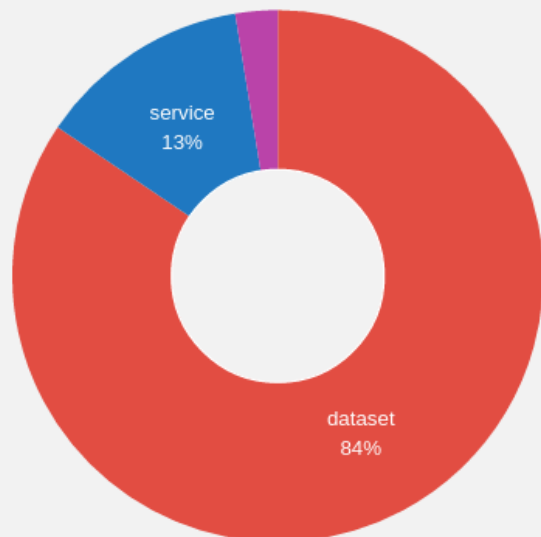
MONITORING REPORT AVAILABLE PER YEAR



# Dashboard / Statistics by resource type

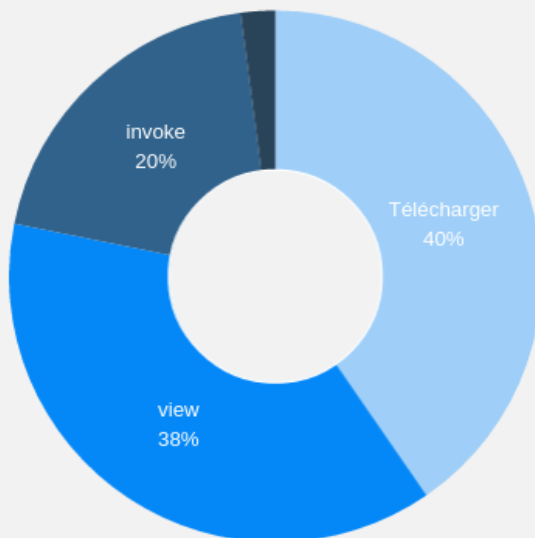
TYPE OF RESOURCES ? ⚙ ✕ TERMES

● dataset (25,700) ● service (3,950)  
● series (780) ● feature (2)  
● nonGeographicDataset (1)



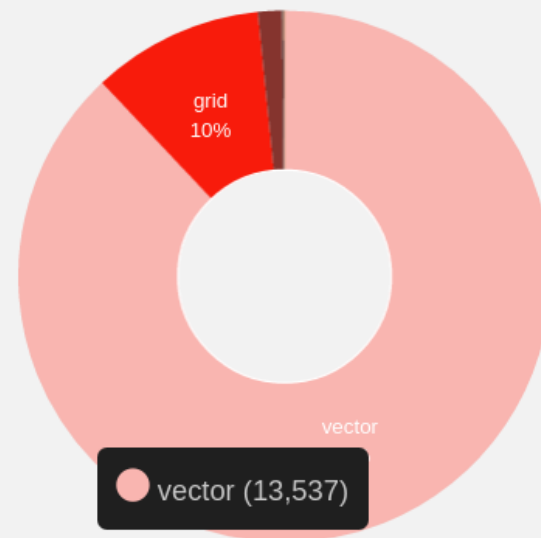
TYPE OF SERVICES ? ⚙ ✕ TERMES

● Télécharger (1,531) ● view (1,432)  
● invoke (748) ● discovery (79)

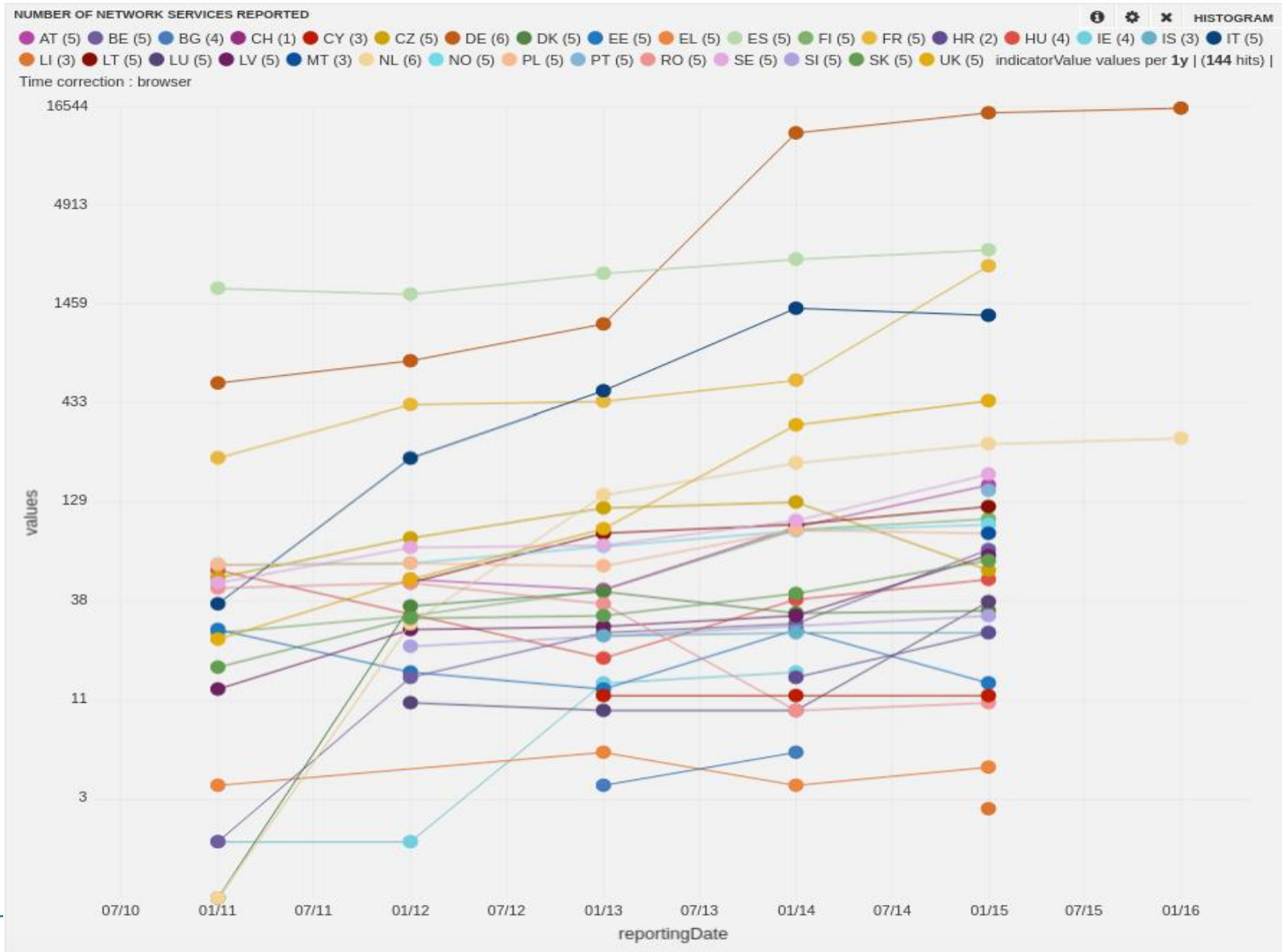


TYPE OF DATASETS ? ⚙ ✕ TERMES

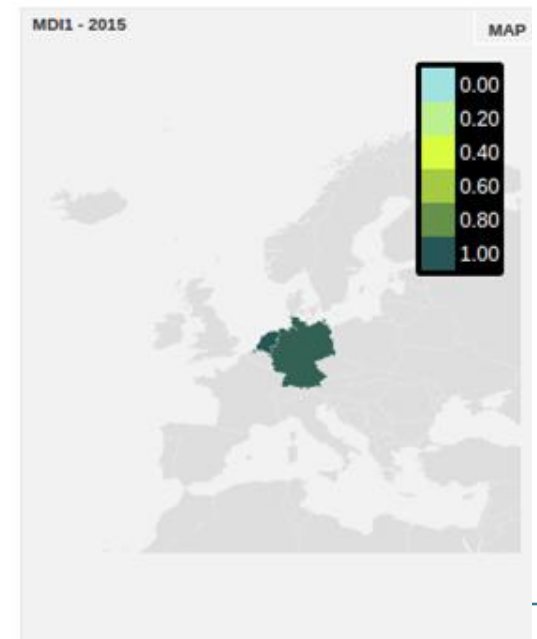
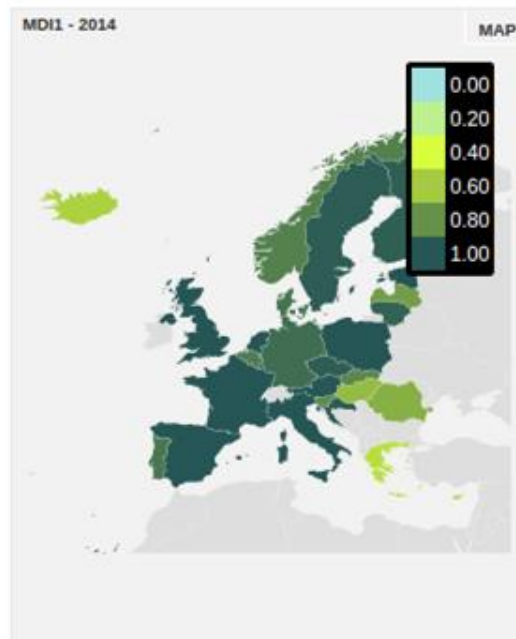
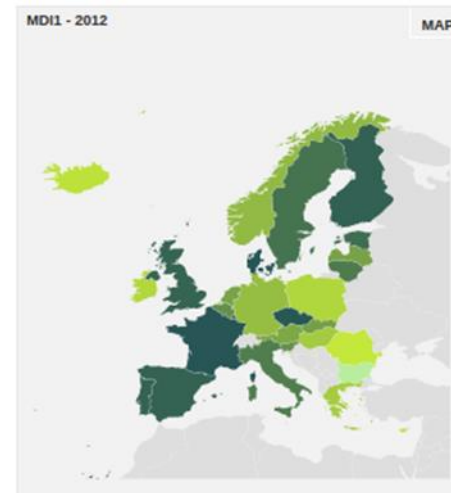
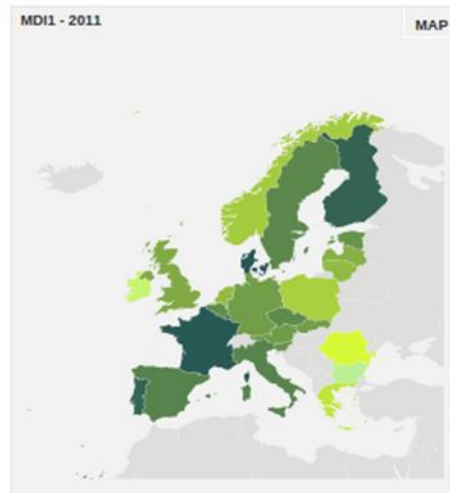
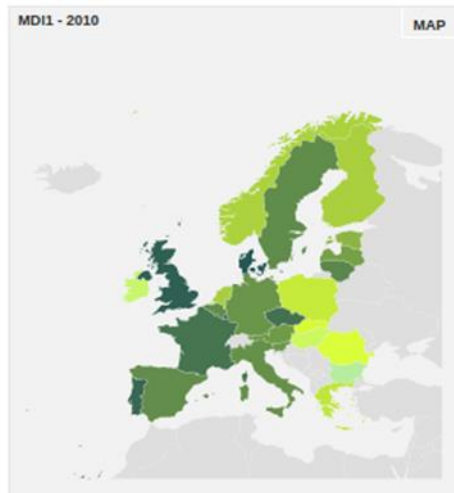
● vector (13,537) ● grid (1,602)  
● textTable (223) ● tin (18) ● Vector (6)



# Dashboard / Number of network services



# Dashboard / Existence of metadata at european level

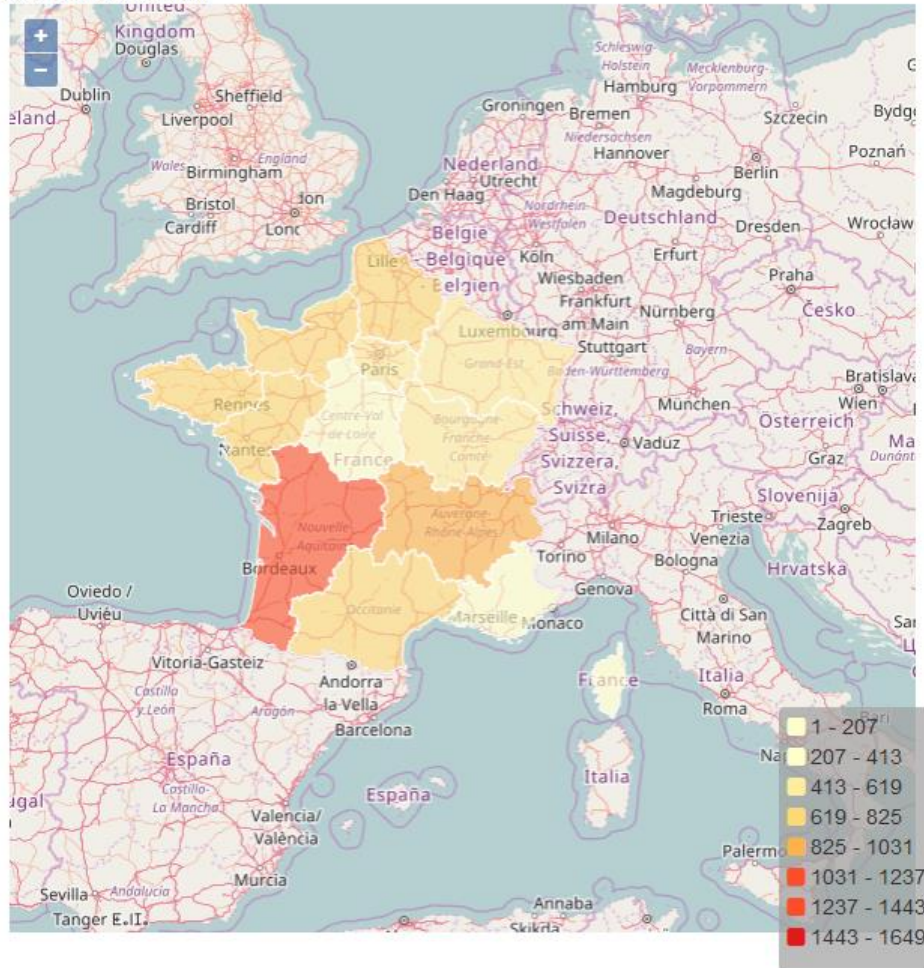


# Dashboard / Implementation in France

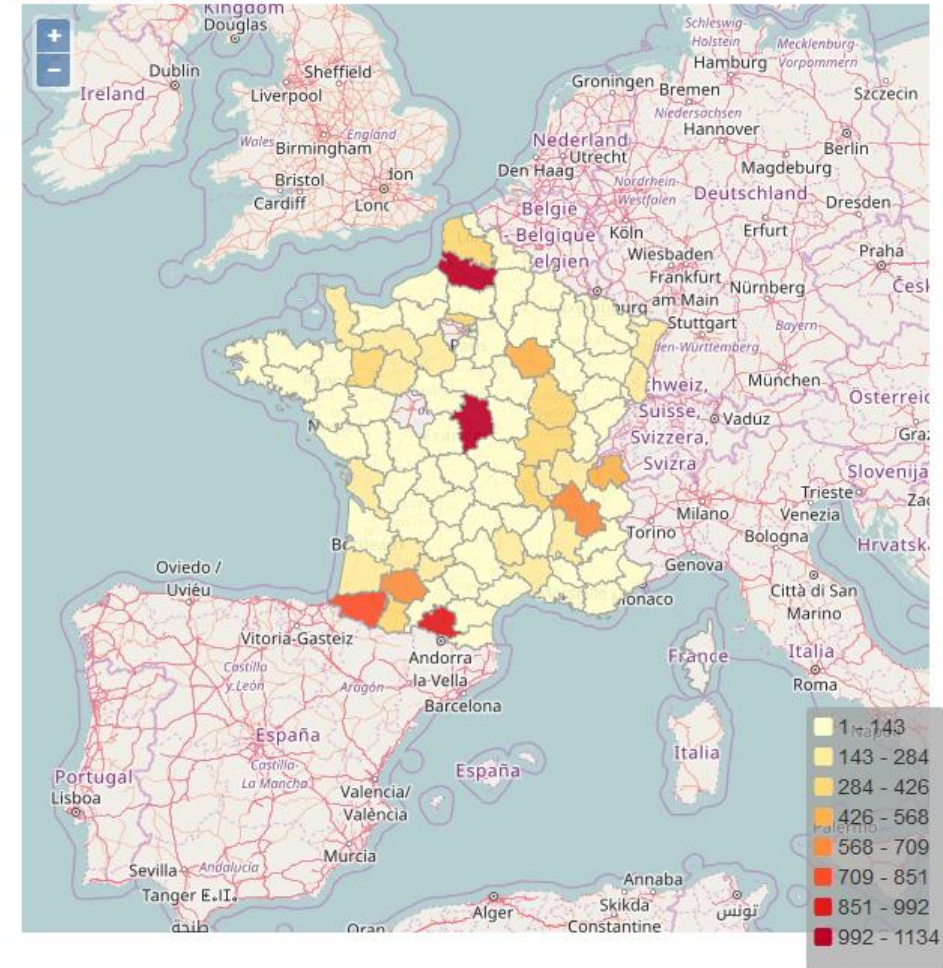
- > DAOBS has been implemented in french infrastructure (Geocatalogue.fr)**
- > The dashboard is an important tool for decision making**
- > But, we need to have specific indicators :**
  - at local level (eg. regional maps)
  - by data producers
  - by SDI (eg. Sextant)
  - Number of open data
- > ...to have their evolution at different time-scales**
- > ...and the user interface in french!**
- > So, we have evolved the dashboard**

# Indicators at local level : Existence of metadata

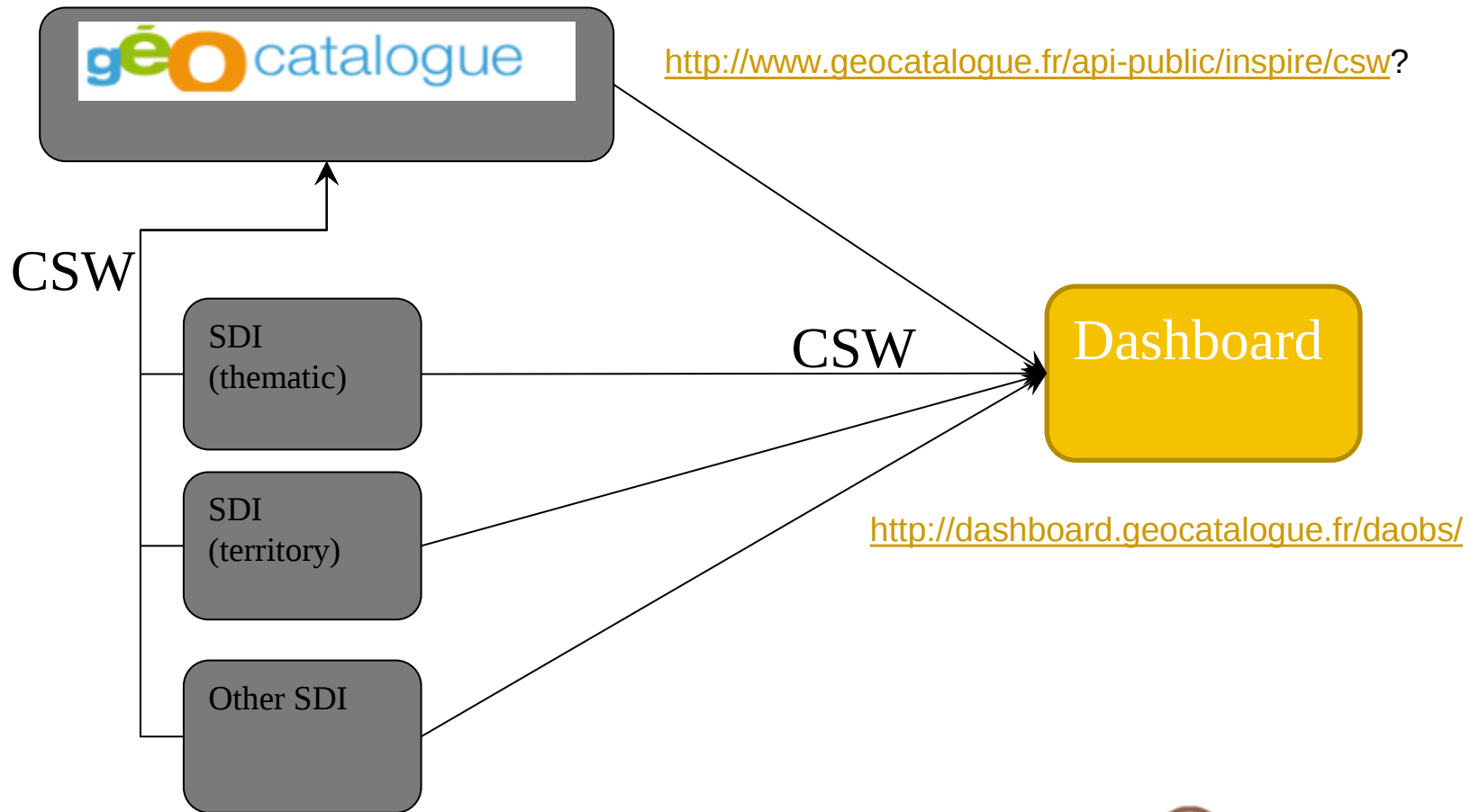
NB DE FICHES PAR RÉGION



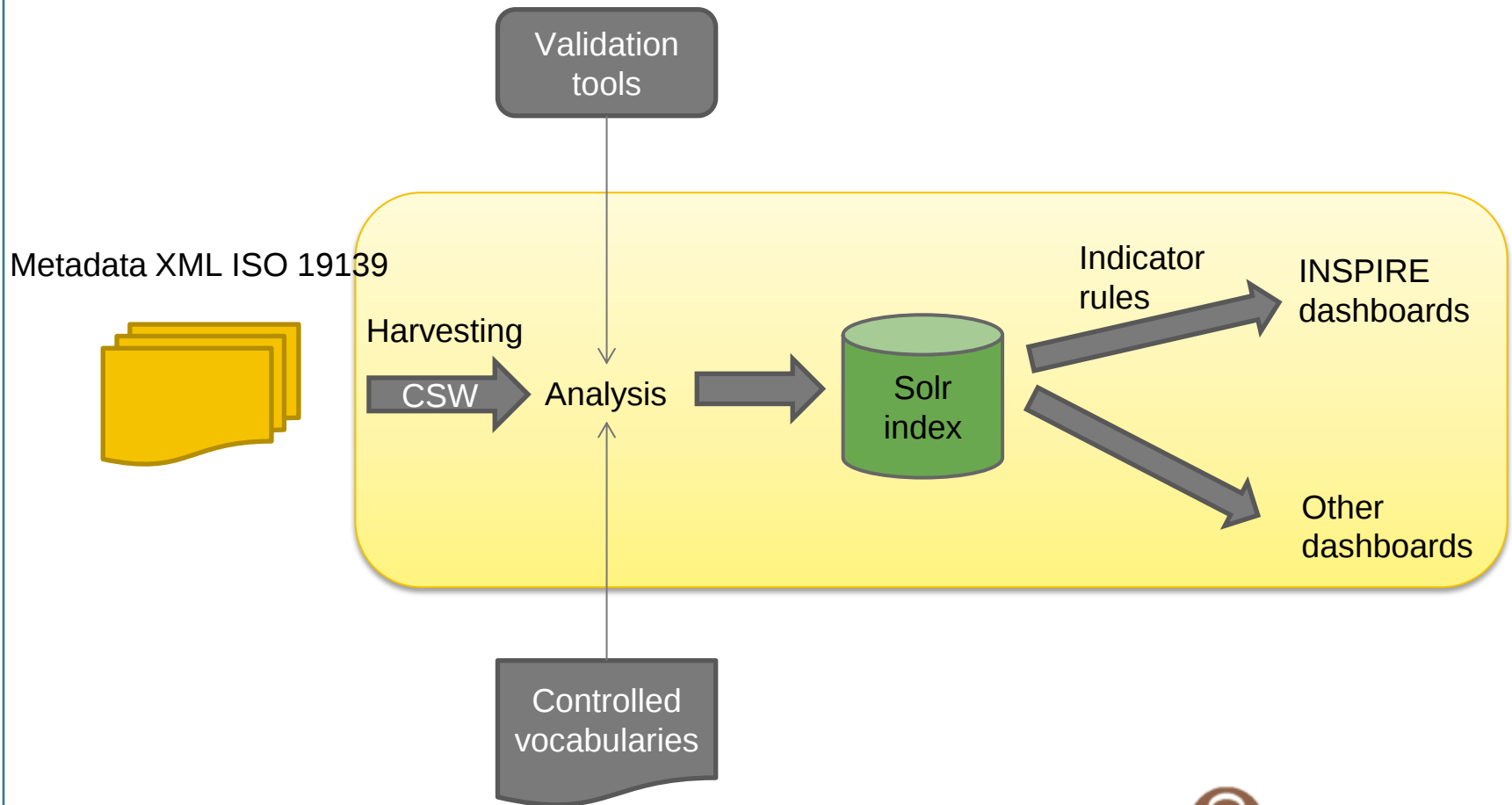
NB DE FICHES PAR DÉPARTEMENT



# Dashboard / Harvesting



# Dashboard / Analysis



# Dashboard / Analysis

- > **Each metadata element is stored in Solr index**
- > **Dashboard use Solr fields :**
  - From XML ISO 19139 metadata (e.g. gmd:title)
  - Computed from metadata (e.g. isOpendata = yes/no)
  - Link between metadata (recordOperatedBy)
  - Synonyms from controlled vocabularies (e.g. producers)

# Dashboard / Analysis

eg. INSPIRE codelists



# Dashboard / Analysis

## eg. Synonyms analysis

DDT 42

DDT42

DDT\_42

DDT de la Loire

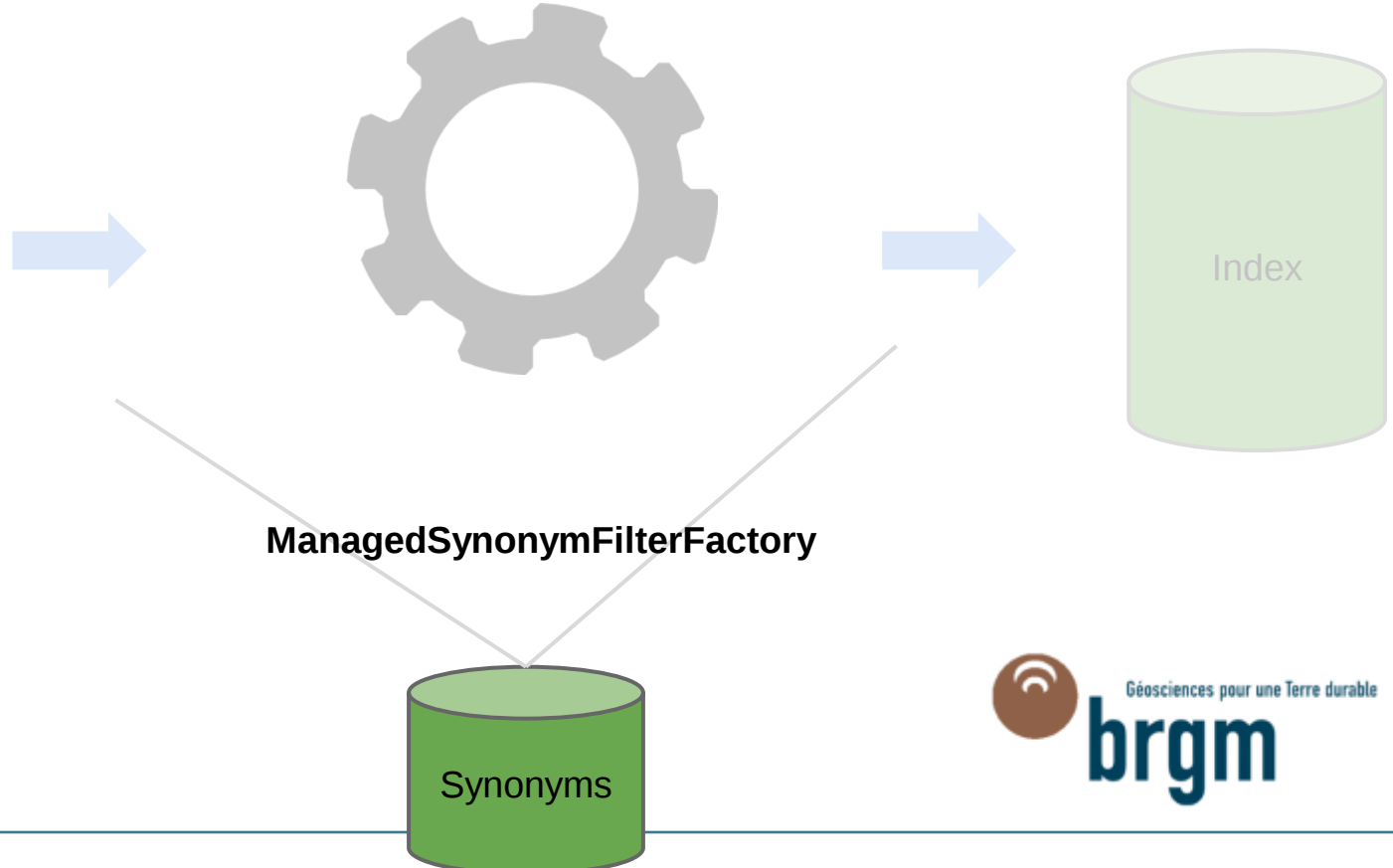
DDEA 42

DIREN de la Loire

ISO19139  
metadata  
record

➡ Direction Départementale des  
Territoires de la Loire (DDT 42)

➡ Département de la Loire (42)

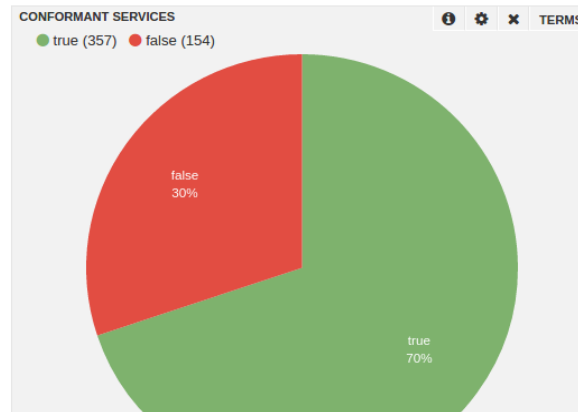
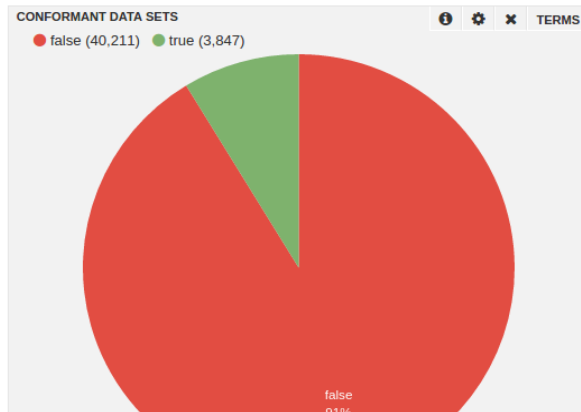
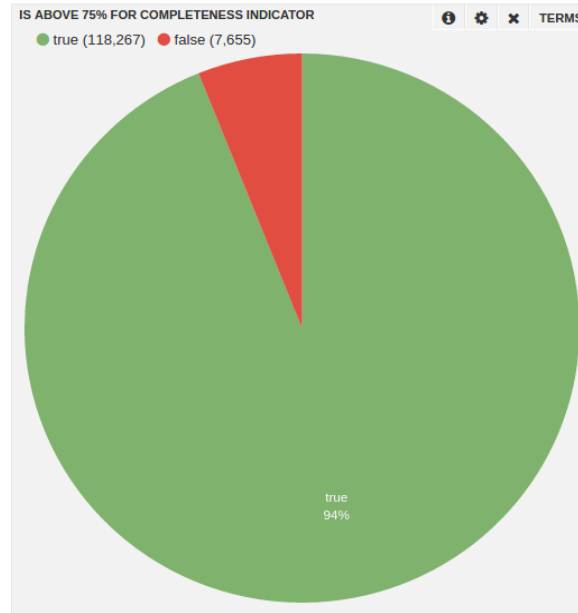
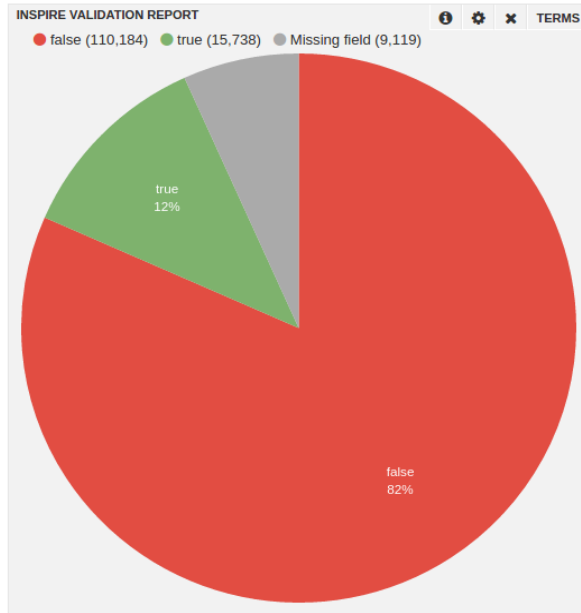


# Dashboard / Analysis

## > **Coupled with other applications**

- ETF for services validation
- JRC validator or Geocatalogue.fr for metadata validation

# Dashboard / Validation report



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

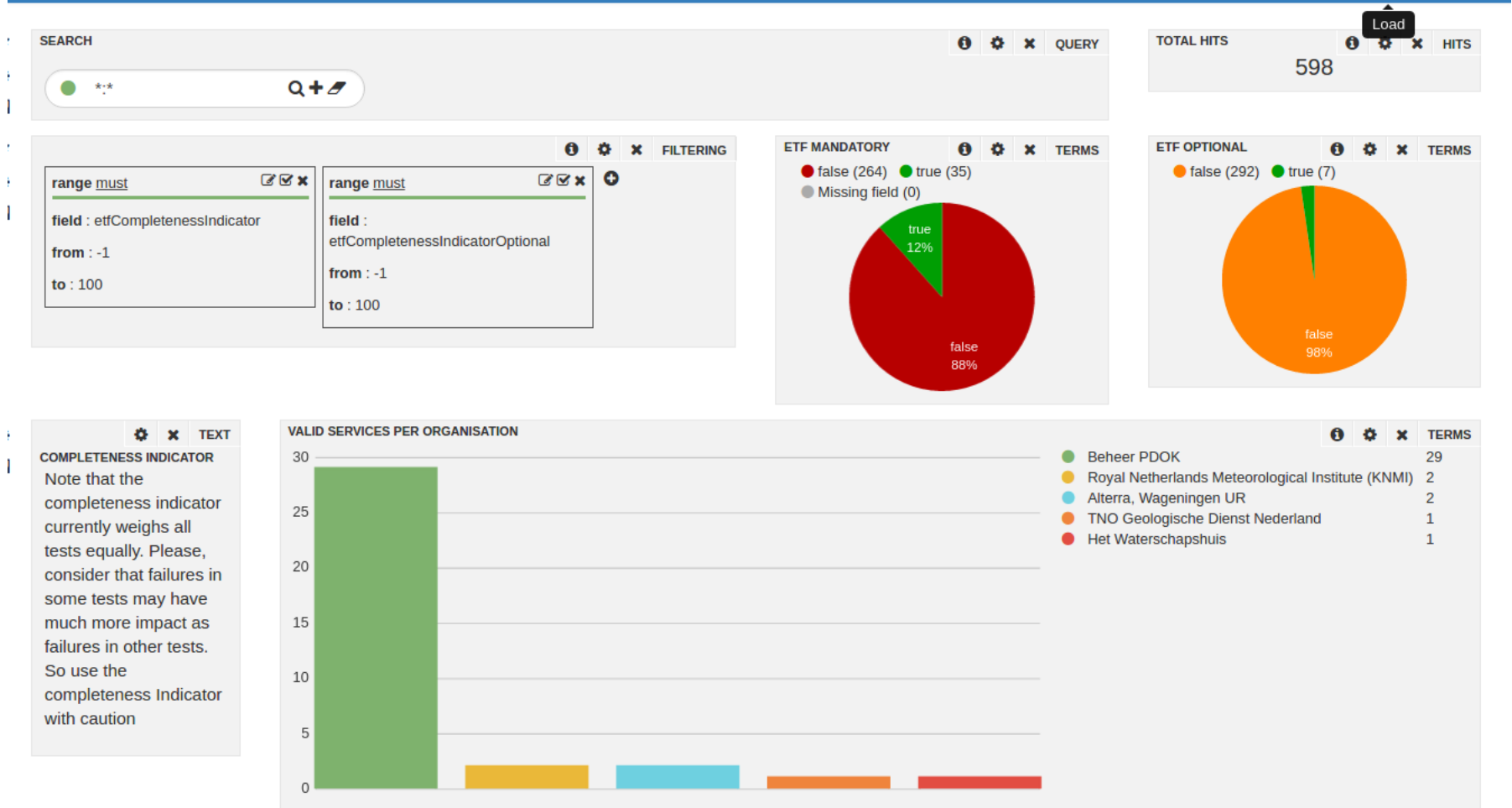
A record is considered valid for INSPIRE if completeness indicator is above 75% (see `isAboveThreshold` field).

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.

# Dashboard / Service validation report

## Service validation report



# Dashboard / INSPIRE indicators

Choose monitoring

inspire

View report rules

Choose reporting area

NL

Query filter

Contact details

org

Email

Contact informations are required when generating INSPIRE reporting to indicate report contact.

417 record(s) matching current filter.

Preview

Download

Schedule (not available yet)

## Report on **Monitoring Indicators** generated for **NL** based on **417 record(s)**

The table below shows the list of variables and indicators computed for the selected area. It may also reports any errors encountered during computation.

|         | Name                                                                      | Value |
|---------|---------------------------------------------------------------------------|-------|
| MDv     |                                                                           |       |
| MDv11   | Number of spatial data sets for Annex I that have metadata                | 55    |
| MDv12   | Number of spatial data sets for Annex II that have metadata               | 7     |
| MDv13   | Number of spatial data sets for Annex III that have metadata              | 104   |
| MDv14   | Number of spatial data services that have metadata                        | 255   |
| MDv1_DS | Number of spatial data sets that have metadata                            | 166   |
| MDv21   | Number of spatial data sets for Annex I that have conformant metadata     | 0     |
| MDv22   | Number of spatial data sets for Annex II that have conformant metadata    | 0     |
| MDv23   | Number of spatial data sets for Annex III that have conformant metadata   | 0     |
| MDv24   | Number of spatial data services that have conformant metadata             | 0     |
| MDv2_DS | Number of spatial data sets for all Annexes that have conformant metadata | 0     |

Configuration

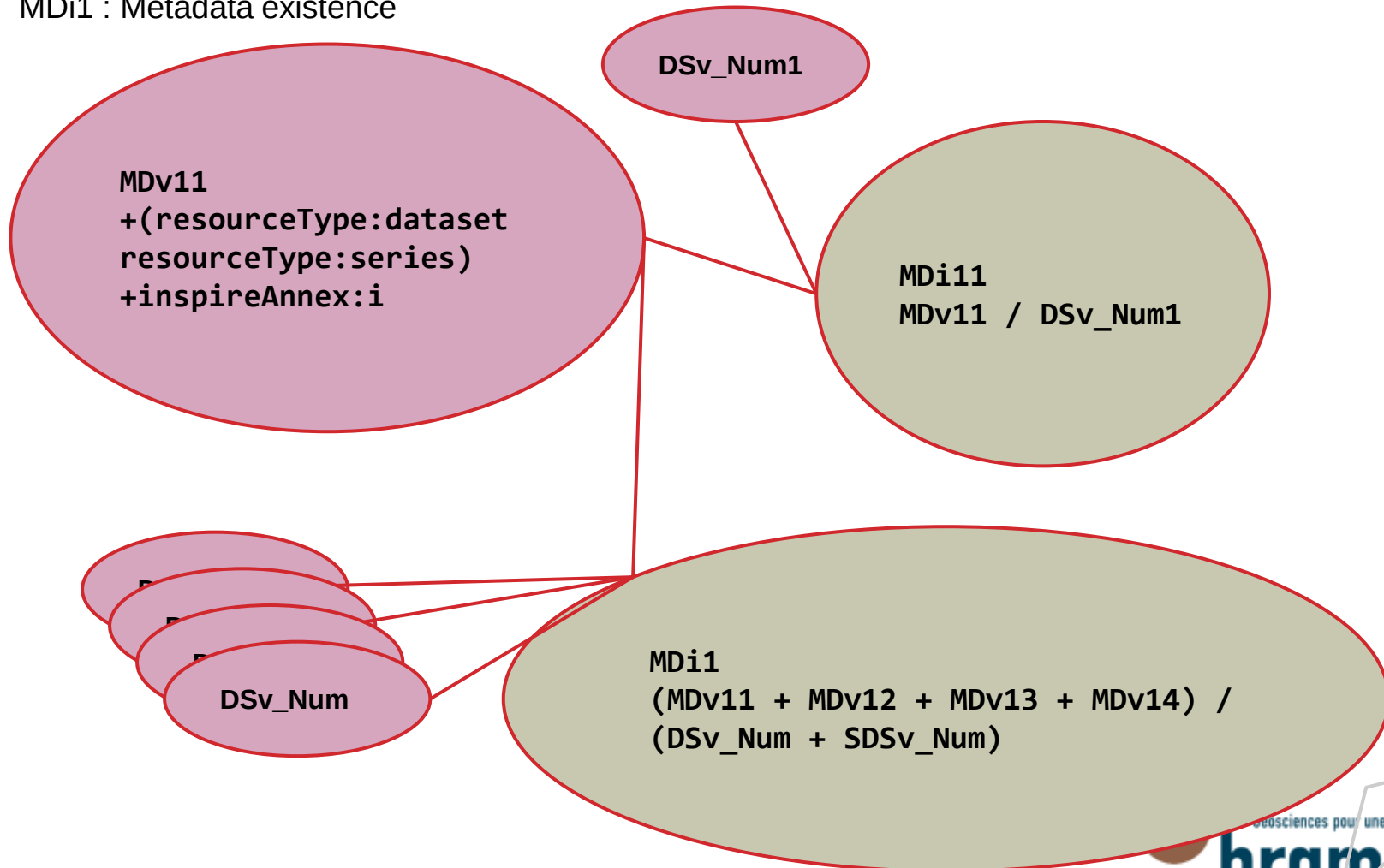
INSPIRE  
Monitoring



iosciences pour l  
rgm

# Dashboard / INSPIRE indicators

MDi1 : Metadata existence



# Conclusions & perspectives

- > MIWP-16 works leads to a prototype of DAOBS application & european “official” dashboards**
- > DAOBS has been improved and adapted in order to evaluate INSPIRE implementation and SDI deployment in France → very important tool for making-decision !**
- > Perspectives of evolution :**
  - Implementation of common validation tools
  - Improve harvesting
  - Compute indicators in « real-time »
  - Supervision of catalogues
  - Identify duplicate/similarity/differences between catalogues



# Thank you for your attention

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