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Implementation of an INSPIRE registry in France : state of progress

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Implementation of an INSPIRE registry in France : State of progress

INSPIRE Conference 2018, Antwerp

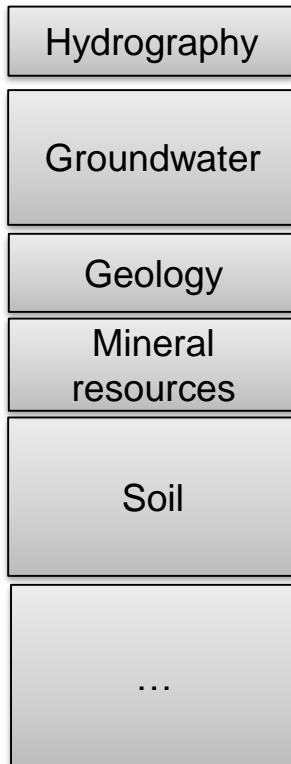
Etienne Taffoureaux

Framework

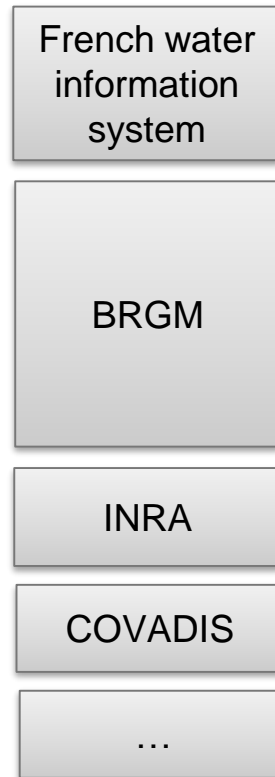
- > **Article 10** of the Directive requires that Member States ensure that **any information, including data, codes and technical classifications**, needed for compliance with the Directive **are made available to public authorities or third parties**.
- > INSPIRE includes only one legal obligation related to registers: **extensions by data providers of the code lists** mandated in Commission Regulation (EU) No 1089/2010 on interoperability of spatial data sets and services need to be published in registers.
- > However, MS and thematic communities are setting up **registers for other purposes** as well, e.g. to have a **single repository of all organizations** in a MS responsible for implementing INSPIRE, including their unique identifiers. In general, registers are useful in all situations where, by a reference code rather than free text, in data exchange, ambiguities or inconsistencies can be avoided. Also registers can facilitate the internationalization of user interfaces by providing multilingual labels
- > **This led to create of a French Registry within geocatalogue.fr**. This will provide Data Publishers with access to code lists and other reference data and schemas required at a FR level and not located at other sources, e.g. the EC INSPIRE geoportal.

Implementation of a FR registry : organization

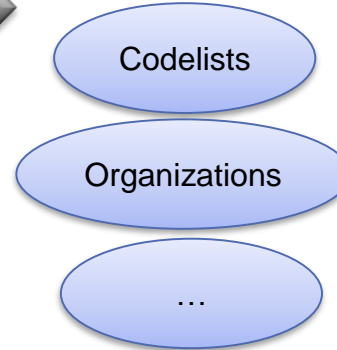
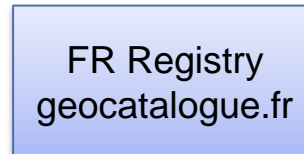
Data themes



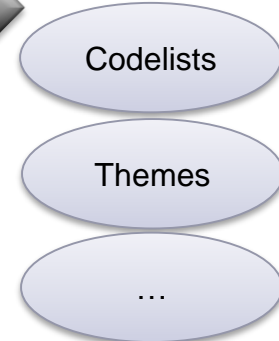
Data providers



FR coordination unit



European level



Implementation of a FR registry : roadmap

> 2017 :

- Tests of two open source softwares :
 - Re3gistry (<https://joinup.ec.europa.eu/software/re3gistry>)
 - UKGovLD (<https://github.com/UKGovLD>)

> 2018 :

- Implementation of FR registry based on Re3gistry (<http://registre.geocatalogue.fr>)
- Publication of codelists on geology theme (borehole, lithology, ...) and transport network (surface composition, etc.)
- Set up of registers for extended INSPIRE code lists (e.g. borehole purpose) and link to the INSPIRE register federation (<http://inspire-regadmin.jrc.ec.europa.eu/ro/>)

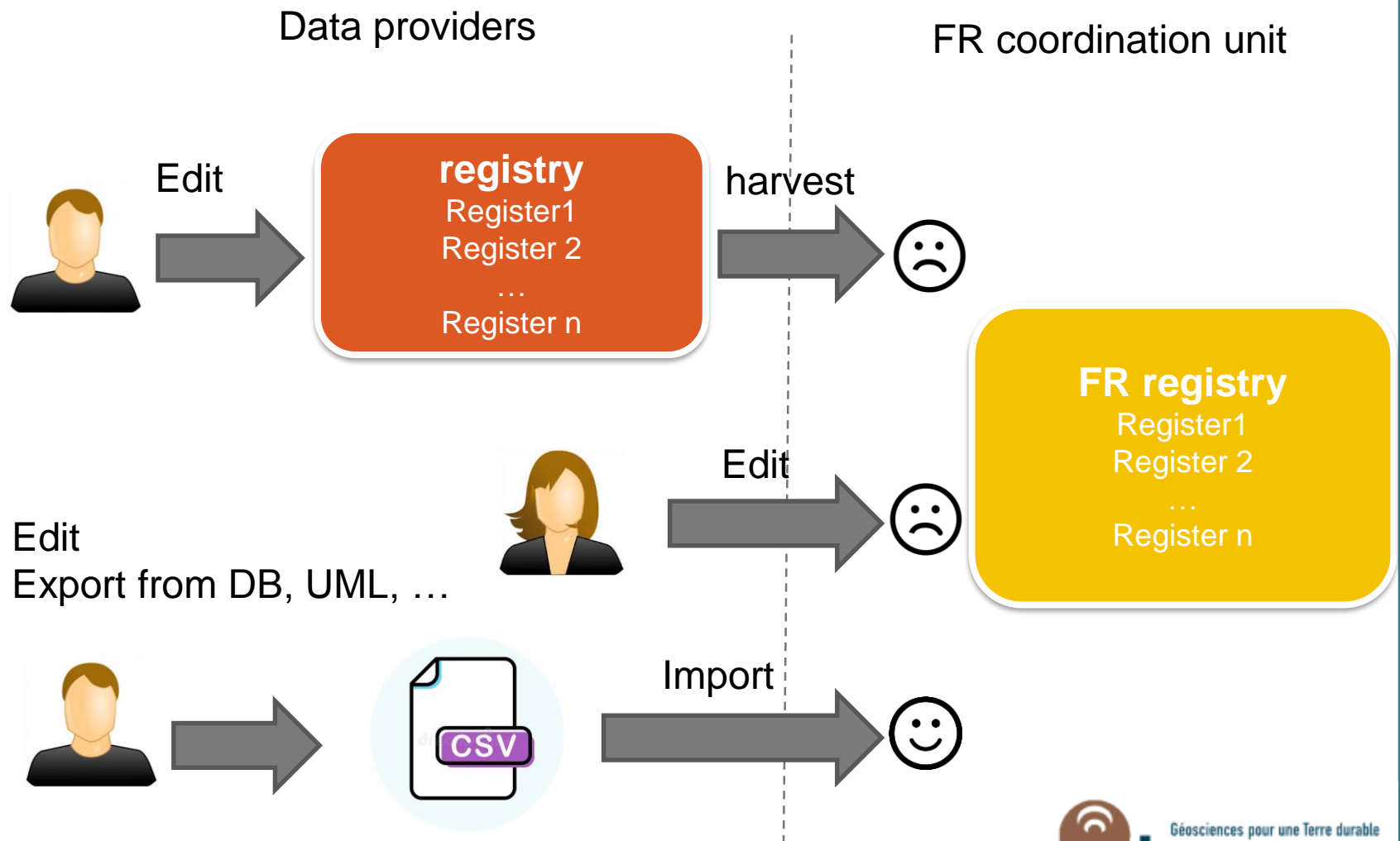


Issues / needs for register management

> An objective of the FR registry is to provide data providers a tool **to manage registers** (with URI « [- It needs editing functionalities and \(simple\) workflows for validate / publish codelists](http://registre.geocatalogue.fr/[...] »)</p></div><div data-bbox=)

> But some data providers are already managing registers in registries (with specific URI, e.g. [- FR registry can be seen as a « register federation »
- It need for synchronisation mechanisms \(harvest or distributed search ?\)](http://data.geoscience.fr/[...])</p></div><div data-bbox=)

Implementation of a FR registry : publication



Issues / needs for register access and use

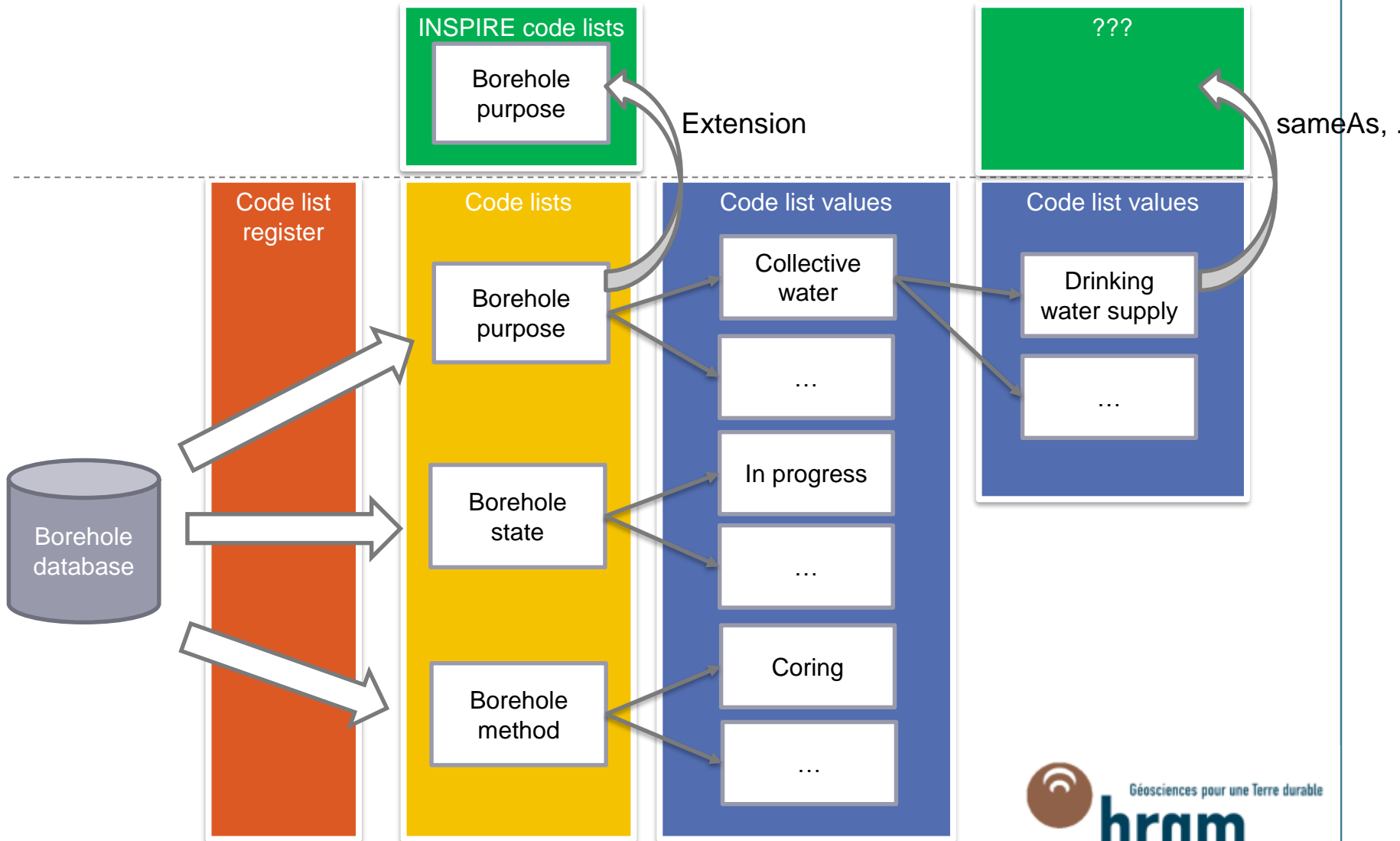
> The registers have to be **searchable through a UI** but also **by applications** (« Machine to machine »)

- e.g. to use custom UI, to select values in an editing form, ...
- Notifications when the content change (RSS, ...)
- Specify output format (RDF, ...) and protocol (SPARQL, ...)
- Performance issues

> **We need to link registers with other vocabularies**

- Using a proper **linked data approach**
- Without re-declaring concepts across registers

Structure of a register (« borehole »)



Overview of a codelist in FR registry (« Borehole purpose »)

Thèmes:

Autres formats:




Valeur de Liste de Codes

Filter Etiquette	Filter Parent	Filter Status
Etiquette	Parent	Status
ABRASIF	PRODUIT-BASE-INDUSTRIE	Validé
ABSORBANT	PRODUIT-BASE-INDUSTRIE	Validé
AEP	EAU-COLLECTIVE	Validé
AGRONOMIE	PRODUIT-BASE-INDUSTRIE	Validé
ANCIEN-AEP	EAU-COLLECTIVE	Validé
AQUIFERE	USAGES-EAU	Validé
BALLAST	VIABILITE	Validé
BOUE-FORAGE	PRODUIT-BASE-INDUSTRIE	Validé
CERAMIQUE	PRODUIT-BASE-INDUSTRIE	Validé
CHARGE	PRODUIT-BASE-INDUSTRIE	Validé
CHARGE-CAOUTCHOUC	CHARGE	Validé
CHARGE-PAPIER	CHARGE	Validé
CHAUFFAGE		Validé
CHUSSEE	VIABILITE	Validé
CHUSSEE-RIGIDE	CHUSSEE	Validé
CHAUX	LIANT	Validé
CIMENT	LIANT	Validé
COMBUSTIBLE	PRODUIT-BASE-INDUSTRIE	Validé
CONSTRUCTION		Validé
COUCHE-BASE	VIABILITE	Validé
COUVERTURE	CONSTRUCTION	Validé

Overview of registries in the INSPIRE register federation

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INSPIRE

Register Federation

European Commission > INSPIRE > Register Federation > Registries

[Registries](#) [Registers](#) [Relations](#) [Federated search](#) [Help](#)[Login](#)

Registries

Filter Label	Filter Publisher	Filter URI
Label	Publisher	URI
Système de publication de registres de l'IDG française	BRGM	http://registre.geocatalogue.fr/registry
INSPIRE registry	European Commission, Joint Research Centre	http://inspire.ec.europa.eu/registry
EEA Data Dictionary vocabularies	European Environment Agency	http://dd.eionet.europa.eu/vocabularies
Austrian INSPIRE registry	CCCA Data Centre	http://registry.inspire.gv.at
INSPIRE Italia Registry	Agency for Digital Italy	http://registry.geodati.gov.it/registry
Lithological Classification Austria - extended values	Geological Survey of Austria	http://resource.geolba.ac.at/lithology/0
IDEE registry	European Commission, Joint Research Centre	http://registro.idee.es/registry
IUGS CGI Geoscience Vocabularies for Linked Data	Geoscience Terminology Working Group (GTWG)	http://resource.geosciml.org/

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Conclusion and perspectives

- > FR Registry (based on Re3gistry) respond to the obligation of publishing INSPIRE code lists**
- > But it have to connect to other tools (like ukgovld) to foster a linked data approach and not a tool approach on the registers and register federation topics**
- > And we need to improve the system in two ways :**
 - Register management (technical but also organizational issues)
 - Register access and use (technical issues)
- > Planned in 2018 – 2019 :**
 - Upgrade Re3gistry v1.3 to v2 (early 2019)
 - Publication of codelists in other themes (Utility and Government services, Land use, Land cover, etc.)



Thank you for your attention

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