

Implementation of an INSPIRE registry in France: state of progress

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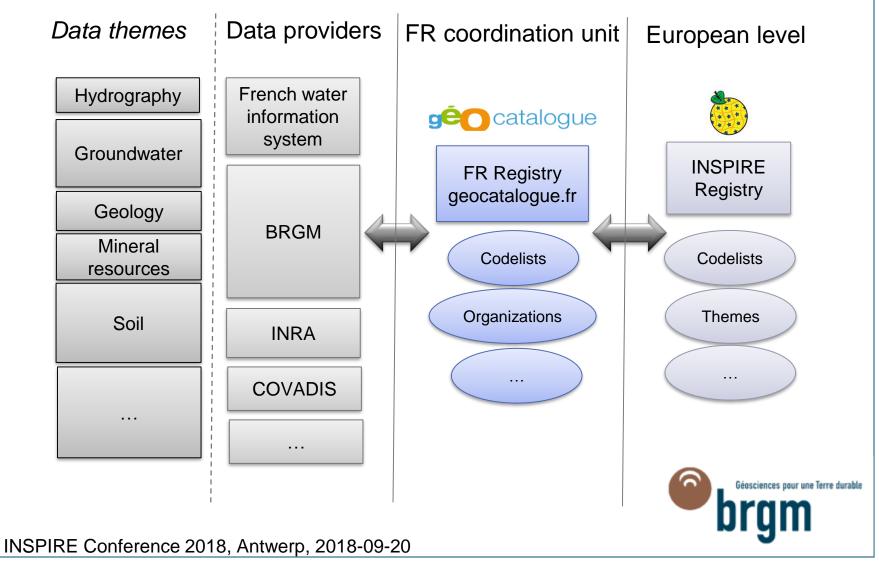


Framework

- >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



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 :

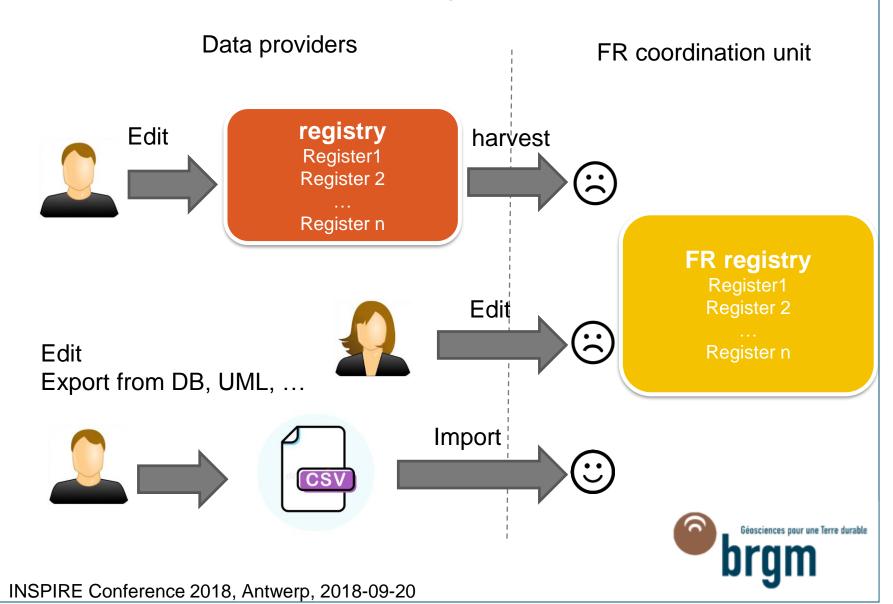
- Implementation of FR registry based on Re3gistry (http://registre.geocatalogue.fr)
- Publication of codelists on geology theme (borehole, lithology, ...) and transport network (surface composition, etc.)
- Set up of registers for extended INSPIRE code lists (e.g. borehole purpose) and link to the INSPIRE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

Issues / needs for register management

- An objective of the FR registry is to provide data providers a tool to manage registers (with URI « registre.geocatalogue.fr/[...] »)
 - It needs editing functionalities and (simple) worflows for validate / publish codelists
- > But some data providers are already managing registers in registries (with specific URI, e.g. data.geoscience.fr/[...])
 - FR registry can be seen as a « register federation »
 - It need for syncronisation mechanisms (harvest or distributed search ?)



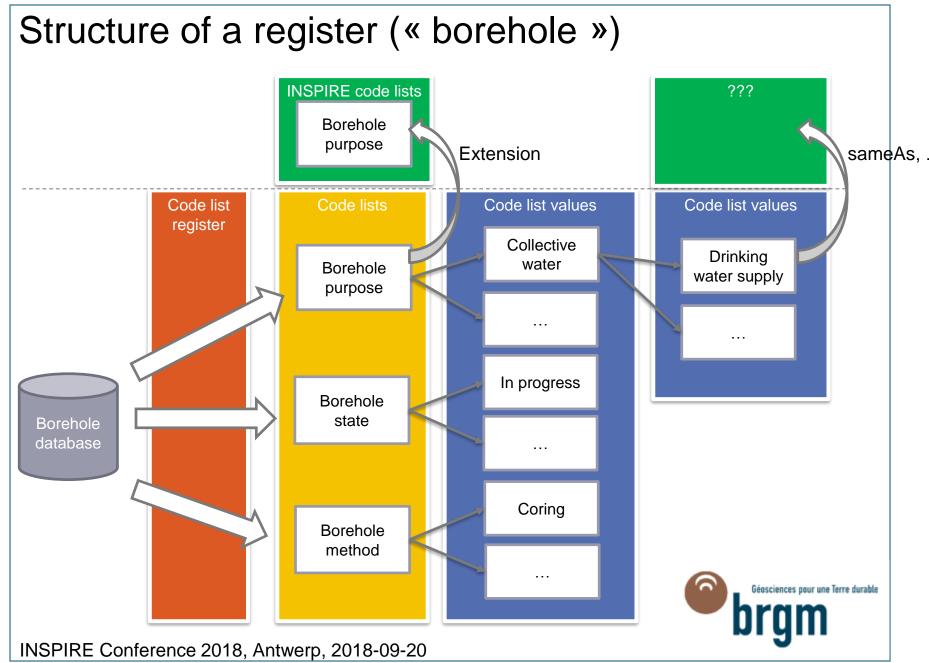
Implementation of a FR registry: publication



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, ...)
 - Specifiy 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





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

Thèmes:

Autres formats:











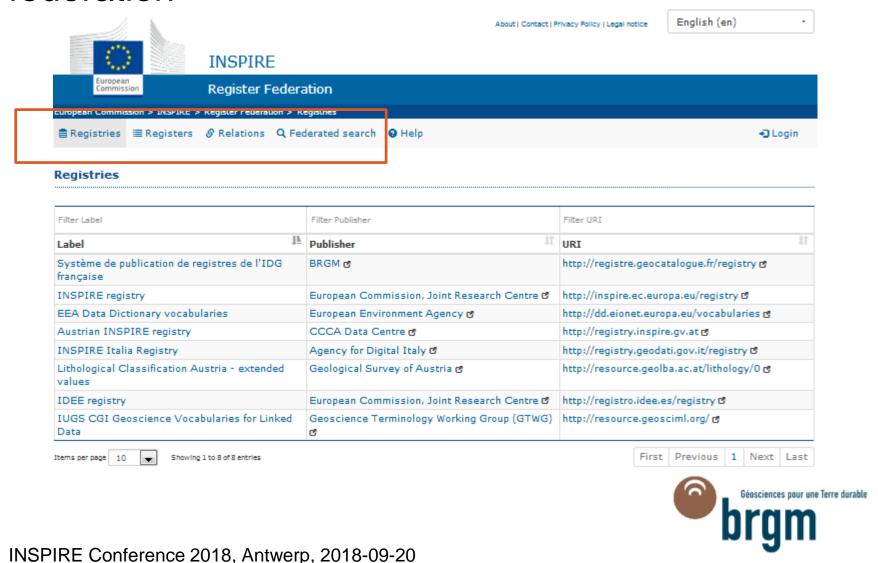


Valeur de Liste de Codes

Filter Etiquette	Filter Parent	Filter Status
Etiquette	Parent	Status 1
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 C	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 😉
CHAUSSEE @	VIABILITE C	Validé 😉
CHAUSSEE-RIGIDE @	CHAUSSEE @	Validé 😉
CHAUX @	LIANT @	Validé 😉
CIMENT @	LIANT @	Validé 😉
COMBUSTIBLE @	PRODUIT-BASE-INDUSTRIE @	Validé 😉
CONSTRUCTION @		Validé 😉
COUCHE-BASE @	VIABILITE @	Validé ♂
COLIVEDTUDE &	CONSTRUCTION &	العلنطف هـ

INSPIRE Conference 2018, Antwerp, 2018-09-20

Overview of registries in the INSPIRE register federation



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.)

