

# INSPIRE Metadata for Dummies

## -French national guidelines for metadata-

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# A short story about French metadata guidelines

- The first French guidelines for metadata were released in December 2011
- One year later, regional feedbacks point some issues, most about “access and use”
- In 2013, a group under National Council for Geographic Information’s umbrella work to propose new recommendations.
- The most important are about:
  - Access and use;
  - Keywords
  - Coordinate reference system(s)

# Access and use : the issues?

- What is seen by users :

## Contraintes d'accès et d'utilisation

### Restrictions

Limitation d'utilisation Licence Ouverte 1.0 <http://www.data.gouv.fr/Licence-Ouverte-Open-Licence>.

### Contraintes légales

Limitation d'utilisation copyright

Contraintes d'accès **Droit d'auteur / Droit moral (copyright)**: Restriction lié à l'exercice du droit moral

Contraintes d'accès **Autres restrictions**: Restrictions non prévues

Autres contraintes Pas de restriction d'accès public selon INSPIRE

- A “limitation of use” frame refers an Open licence
    - But who reads licences?
  - A Copyright with limitations;
  - A mention “Other restrictions”
  - Completed with “no limitation of public access”
- At this stage, the users give up.

# Taking producers and developers by the hand: use cases

- For INSPIRE and ISO 19115 conformity, 6 use cases :
  - The simplest case : no licence
  - Data under open licences
  - Data with fees
  - Data with other public access restriction
  - Data with restrictions on use
  - Data type with "security constraints"
- With technical reference
  - Xpath ISO19115
  - XML example

# An example of technical reference for open licences

## Technical reference

<p>Xpath ISO 19115</p>	<p><a href="#">identificationInfo[1]/*/*resourceConstraints/*/*useLimitation.</a></p>
<p>XML example</p>	<pre> &lt;gmd:MD_Metadata&gt; ...   &lt;gmd:identificationInfo&gt;     &lt;gmd:MD_DataIdentification&gt; ...       &lt;gmd:resourceConstraints&gt;         &lt;gmd:MD_LegalConstraints&gt;           &lt;gmd:useLimitation&gt;             &lt;gco:CharacterString&gt;no conditions apply. Free use subject to mentioning the source (at least the name of the producer) and the date of last update&lt;/gco:CharacterString&gt;           &lt;/gmd:useLimitation&gt;         &lt;/gmd:MD_LegalConstraints&gt;       &lt;/gmd:resourceConstraints&gt;       &lt;gmd:resourceConstraints&gt; ... (voir exemple précédent)       &lt;/gmd:resourceConstraints&gt; ...     &lt;/gmd:MD_DataIdentification&gt;   &lt;/gmd:identificationInfo&gt; ... &lt;/gmd:MD_Metadata&gt; </pre>

# Think about users: use keywords

- More than 95% of datasets would be under an Open Licence
- The most efficient solution: to add a keyword “open data”
  - to be understood by users,
  - Found by search tools,
  - And be harvested by open data portals.

# Keywords

- Thesaurus GEMET-INSPIRE is mandatory
  - Recommendation: to attach a resource to only one INSPIRE theme
- Two optional levels of keywords are recommended:
- additional keywords by associating a keyword value to controlled vocabularies setting these keywords;
  - Bring the semantic interoperability;
- free keywords without associated thesaurus.
  - Bring reactivity (thesaurus are a bit heavy to update)

# The debate about coordinate reference system(s)

- What is the target?
  - Machine-to-machine or human understanding?
- We decided to choose a human readable information and to preserve future uses;
  - Metadata are firstly made for human, and XML is not clearly defined here;
- Recommendations :
  - The identifier of the reference system must be provided. This identifier must have a code and a namespace.
  - The codes used are EPSG codes.
  - To facilitate understanding of the user, it is recommended to also provide descriptive label of the coordinate reference system (eg ETRS89).

# Two solutions: user centric or machine centric

- **Solution 1 : easiest for users, non-machine readable**
  - Provide the character string: "text" (*the name known by users*) ("namespace": "Code")
  - Example : ETRS89 (EPSG:4258)
- **Solution 2 : machine readable**
  - Example :URL :  
<http://www.opengis.net/def/crs/EPSG/0/4258>
  - Text: ETRS89
  - Code : 4258
  - CodeSpace : EPSG

# Conclusions

- A first feedback of implementations by subnational governments
  - Less experts in standards and closer to users
- Tools (ISO19115) send a complex message about Access and use
  - when almost all French INSPIRE data are open
- Technical guidelines are too loose for interoperability
  - And led to national implementations to reach it.
- A good trigger to be more precise in the future,
- **But it will be interesting only if more users centric.**