

Publishing authoritative content on the Web of data – some experiences and questions from IGN

EuroSDR Linked Data working session

Saint Mandé, april 10th 2015

Bénédicte Bucher, IGN, Research in GI Science

On what resources shall we define persistent uris and how? (1/2)

■ WHAT :

Coordinate ref syst : <http://data.ign.fr/id/ignf/crs/RGF93G>

Features often used in indirect referencing : <http://data.ign.fr/id/geofla/departement/51>,

Schemas : <http://data.ign.fr/def/geofla.html>, [../geometry.html](http://data.ign.fr/def/geofla.html#geometry), [../topo.html](http://data.ign.fr/def/geofla.html#topo),

■ HOW :

- Needed anyway : translation methods from shape, Gml, .. to RDF
- Choice between :
 - **Offline conversion into RDF, possibly write data into triple store**
 - **or : proxy above WFS (on the fly conversion)**
- Prepare the 'html' format for user to visualise the data

On what resources shall we define persistent uris and how? (2/2)

- **Some remaining questions :**
- Survey what happens to these published resources (how people use them...)
- Enhanced html (link to maps)
- Strategy to select new resources to put URIs on :
 - Licensing, privacy issues (Linked Open Data)
 - Objects (incl. zones, defined based on WPS) for which URIs would be useful in : social media, legal texts
 - Metadata (incl. provenance), versioning information
 - Timelines of entities in the real world (need for a model of events)

- **What** : vocabularies, *authoritative* (different kind of authority) data sources (IGN-INSEE-DBPedia,..)
- **New kind of connection for ‘is located in’** (besides sameAs links) : connecting thematic data to geometry (Geometry ontology) and to topographical objects (nearOff links)

Some remaining questions :

- **Semantics of sameAs** (what is similar what is not)
- **Semantics of “is located in”** to facilitate visualisation and interconnection
- **Maintain consistency of the published interconnections** (i.e. find a solution for the synchronisation of interconnected datasets)

- **Standards and good practices**
- **Content providers**
- **Brokers**
- **Content consumers**
- **Scientific communities : data scientists, information scientists (sensors, signal, computational geometry, ...), knowledge representation (DL), ... ecologists, urbanists, historians, ...**

How to go from research results (data.ign.fr) to an operational solution (...data.ign.fr) ?

ORGANISATIONAL ISSUES :

- Commitment to quality of service
- Handle security issues (data integrity)
- Which actors, private-public cooperation