A WFS PROFILE FOR THE NATIONAL URBAN PLANNING WEBSITE

Marie.lambois@ign.fr
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Why do we need a national urbanism website and infrastructure?

To access urbanistic rules on local area:
- **Until now**: go to the competent authority head office
- **In 2020**: all urbanistic rules will be available on [www.geoportail-urbanisme.gouv.fr](http://www.geoportail-urbanisme.gouv.fr).

**Simplify access by citizens to the urbanistic rules and maps**
**Facilitate urbanism stakeholders jobs**
**Apply INSPIRE directive**
Digitalizing and gathering urbanistic data

- Currently, urbanistic data are:
  - Produced by municipalities or state services
  - Often still paper based

- French strategy on urbanistic data is incorporated in the law (ordonnance 19th December 2013)
  - The competent authority has to digitalize the data between 2016 and 2020
  - The digitalization must respect the **national CNIG standard**
  - From 2020, urbanistic data must be published on the national urbanism website
What is the national CNIG Standard?

- THE CNIG (NATIONAL COUNCIL OF GEOGRAPHICAL INFORMATION) BRINGS TOGETHER THE REPRESENTATIVES OF:
  - Ministries
  - Public institutions
  - Territorial authorities
  - Experts of geographical Information

- THE NATIONAL CNIG STANDARD SPECIFICATIONS ARE CLOSE TO INSPIRE DATA MODEL BUT:
  - More easy to understand from local actors points of view
  - Are updated in line with French law evolutions

- IN THE WEBSITE:
  - The producers have access to a CNIG standard validator
Uploading urbanistic data

- The producers can upload their data:
  - by zip file (CNIG Standard)
  - by Atom feed (Atom Profile)
  - by WFS (WFS Profile)
WFS PROFILE
Based on Inspire TG

- No duplication of efforts

- BUT GPU profile repeats Inspire requirements
Define GML encoding

- **Issue**: CNIG standard was based on Shape and defined a ZipFile structure.
- **Solution**: Define a GML encoding based on CNIG standard
Define GML encoding

« Données géographiques » is a directory of shapefiles, transformed in a GML structure
Define GML encoding

- « Pièce écrites » directory, containing documents would be zipped and a URL pointing to this zip file added in the GML.
Define GML encoding

- Metadata is also enclosed so a URL pointing to the metadata file is added in the GML.
Define update mechanism

- When should data be harvested again?
  Solution based on updateSequence attribute of the GetCapabilities

  updateSequence = 3

- Then harvest only new elements based on identifiers
Precise content of GetCapabilities

- Abstract SHALL contain a specific text
  - « Ce service implémente la version 1.0 du profil CNIG Basic WFS. »
- Profile SHOULD be set to
  - `<ows:Profile>CNIG_WFS_Profile_1.0</ows:Profile>`
- Specific keywords SHALL be added
More info

- Latest version of WFS profile is available here:
  - [http://cnig.gouv.fr/wp-content/uploads/2016/08/Profil-WFS-Donn%C3%A9es-Urbanisme-V0.9.3-1.pdf](http://cnig.gouv.fr/wp-content/uploads/2016/08/Profil-WFS-Donn%C3%A9es-Urbanisme-V0.9.3-1.pdf)
  - [https://www.geoportail-urbanisme.gouv.fr/](https://www.geoportail-urbanisme.gouv.fr/)
  - The map is here: [https://www.geoportail-urbanisme.gouv.fr/map](https://www.geoportail-urbanisme.gouv.fr/map)