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A WFS PROFILE FOR THE NATIONAL URBAN PLANNING WEBSITE

GEOPORTAIL DE L'URBANISME

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30 septembre 2016



GENERAL CONTEXT



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.



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 digitalized 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

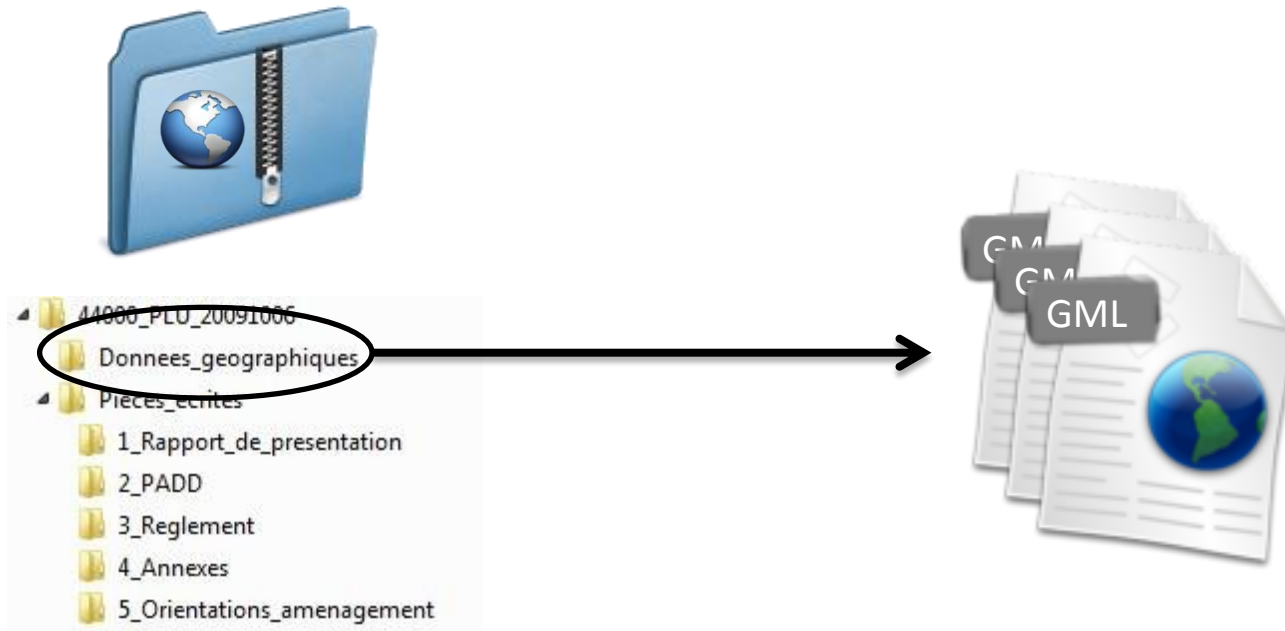


Define GML encoding

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



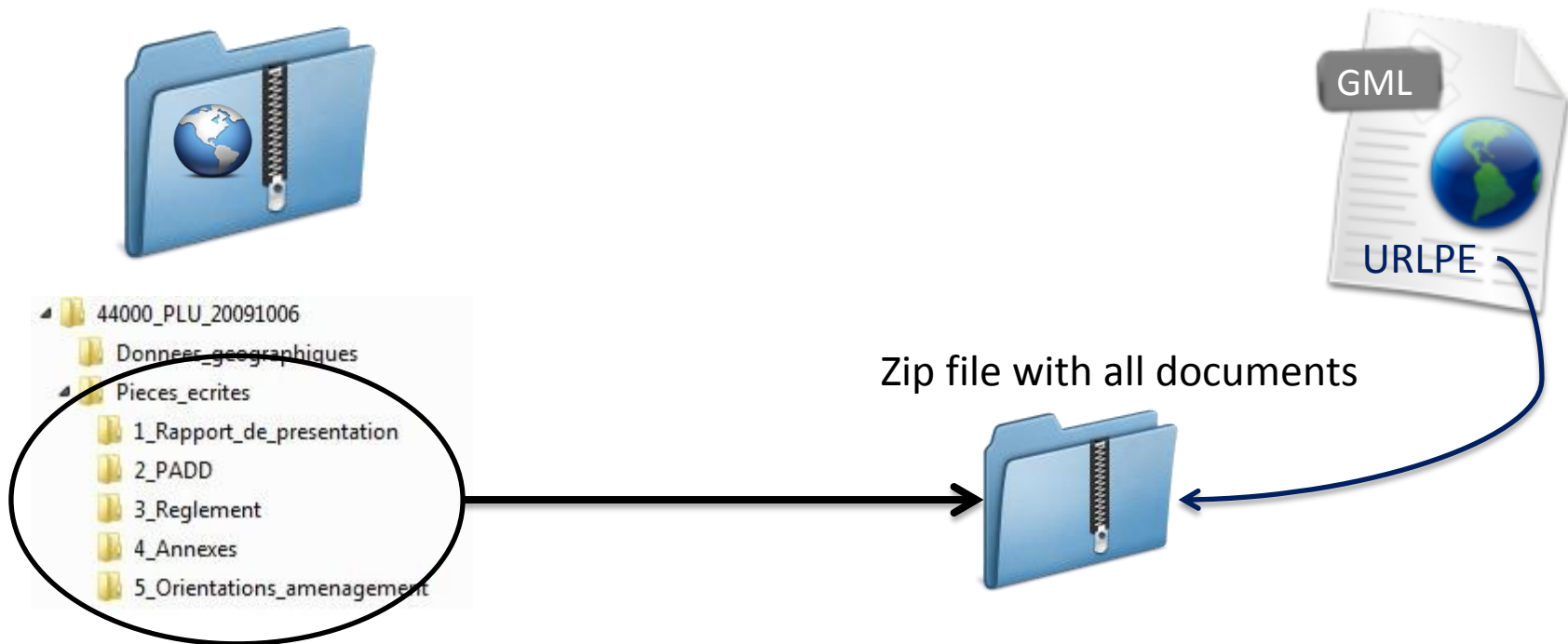
Define GML encoding



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



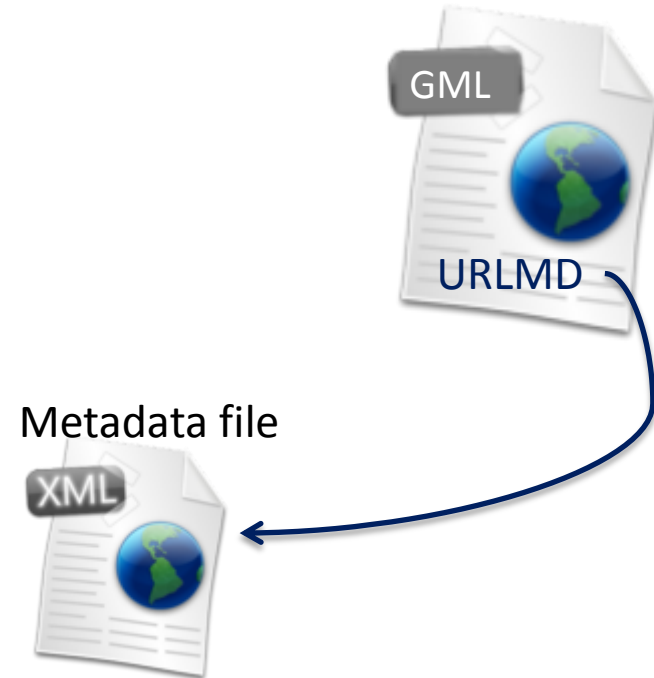
Define GML encoding



- « 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 = 

- 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>



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- <https://www.geoportail-urbanisme.gouv.fr/>
- The map is here: <https://www.geoportail-urbanisme.gouv.fr/map>

