The French geoportal for Spatial plan (Géo-portail de l’urbanisme): a spin-off of INSPIRE?

François Salgé
Content

- What is the ‘Géoportail de l’urbanisme’
- Challenges for continuous and distributed updating
- Views from the computer and organisational architecture
- Conclusion
What is the ‘Géoportail de l’urbanisme’

- A one stop shop for accessing spatial plans and Public utility easments
- Part of the investment plan for housing (March 2013)
- For a greater transparency regarding spatial regulation over the French territory
- Accompanying the 3rd decentralisation wave
- In agreement with the INSPIRE directive
Legal context

December 2013 ordinance (the law)

- Equal access for all citizens to a quality and validated information
- Obligation to have and make available spatial planning documents in a (GIS) standardised digital form
  - For local governments: their spatial plans
  - For the State: the public utility easements
In INSPIRE terminology

- **Spatial plans**
  - “SpatialPlan” object type
  - “planned land use” package
  - theme 3.4 “Land use”

- **Public utility easements**
  - “ManagementRestrictionOrRegulationZone” object type
  - theme 3.11 “area management/restriction/regulation zones and reporting units”
Spatial plan

Public utility easements
Timing

- July 2015: public utility easement beneficiaries
  - Delivery of their documents in digital form according to the CNIG "géo-standard"

- January 2016: local governments
  - Delivery of their spatial plans in digital form according to the CNIG "géo-standard" as soon as they are modified
  - Internet publishing of their in-force spatial plans (free format)

- 2020: all online documents (spatial plans and public utility easements)
  - in standardised digital form will enter into force only if published on the "Géoportail de l’urbanisme"
European and standard context

- Ordinance in line with the INSPIRE directive implementation
- Facilitating factors
  - Pre-existing CNIG standards “compatible” with the INSPIRE standards
  - The french www.geoportail.gouv.fr as the INSPIRE implementation in France
  - 56% of the spatial plan already in digital form according to CNIG standards
  - Ministerial experience through GéoADS for applying the building permits instruction
What it looks like

Table de données sur l'entité sélectionnée

Zones des documents d'urbanismes

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- L'implantation des constructions doit être compatible avec les principes d'aménagement définis par l'orientation d'aménagement et de programmation.

b. Dans le seul secteur U2c:

b.1. Dispositions applicables aux unités loncières ayant une façade sur l'avenue Gérard Yvon

- Les constructions doivent être implantées :
  - à l'alignement
    - Les étages en attique, en retrait de l'alignement, sont toutefois admis sur les deux derniers niveaux,
    - ou avec un retrait de 4 mètres maximum de l'alignement
  - Les étages en attique, en retrait de plus de 4 mètres de l'alignement, sont toutefois admis sur les deux derniers niveaux.

b.2. Dispositions applicables aux autres unités loncières
Challenges for continuous and distributed updating
Target organisation (Ordinance)

- Local governments
- Spatial Plans (legal obligation)
- State government
- Public utility easements (legal obligation)
- PUE beneficiaries

Ordinance obligations
General public
3.4 LU
3.11 AM
INSPIRE obligations

MINISTÈRE DE L’ÉCOLOGIE, DU DEVELOPPEMENT DURABLE ET DE L’ÉNERGIE / MINISTÈRE DU LOGEMENT ET DE L’ÉGALITÉ DES TERRITOIRES
Users’ profiles

Géo-portail de l’urbanisme

- Data search
- Data visualisation
- Data downloading
- Identification
- Data control
- Data uploading - supression
- Data management
- Account management
- Editorial content management

- Anonymous
- User
- Sub contractor
- Component authority
- Delegated authority
- Administrator
Challenges for continuous and distributed updating

- Competent authorities in charge of uploading the “Géo-portail de l'urbanisme” with their documents at each création or updating
  - Can delagate its duties to a delegated authority
  - MUST explicitely designate its delegated authority if necessary

- Delegated authority
  - Inherits rights and duties of the competent authority that delegated
  - Could be
    - Local state governments authority
    - Sub national SDI

- Possible mechanisms
  - Automatic synchronisation (ATOM)
  - Web services (WFS)
PUE beneficiaries have Public utility easements (CNIG standard) and upload it to Delegated authority.

Local governments have Spatial plans (CNIG standard) and upload them to Delegated authority.

Delegated authority has Thematic SDI and harvests it.

Delegated authority also has Sub national SDI and harvests it.

General public, Professional public, and Géo-portail de l’urbanisme are linked.
Competent authority registration

- A PDF form
  - Pre-filled form uploaded, printed, signed by the competent authority
  - Sent to the ministerial department for validation.
- Content:
  - Designation
  - Type of account
  - Name and first name
  - Poste occupé par le demandeur au sein de la structure
  - e-mail address
  - Geographic extent of responsability (administrative unit)
  - Date
  - Signature
Views from the computer and organisational architecture
Best practices reuse

- Data standardisation
  - For upload
  - For automatic upload
- Data structure validation
- Existing data (stock) integration
- Updating data (flow)
- Data set id
- Syndication system for automatic upload
Risk log

ู่ How to avoid double dataset?
  ę For metadata
  ę For data

ู่ How to assess that data comply with standard?
  ę Many existing datasets do not already fully comply with CNIG standards

ู่ How to meet technical and legal constraints
  ę Duplicate data
    ę to ensure equal performances everywhere
    ę but ensure it is the document that is in force
  ę INSPIRE implementing rules and recommendations
Conclusion

- The “géo-portail de l’urbanisme” is on its way
  - Ordinance published, regulations and recommendations on their way
  - Key conception phase is achieved
  - Detailed specification is finalised
  - First developments are provided
  - Versions are planned
    - Version 1 end 2014
    - Version 2 mid 2015
    - (Version 3, 4, 5 etc.)

- INSPIRE was an incentive
  - During political push (with examples from abroad NL-IE)
  - During definition (reuse of INSPIRE implementation via www.geoportail.gouv.fr)
  - When 100% operational (automatic translation to INSPIRE specification)
Merci
Thanks
Tak