The French "BANO" project story

Christian Quest - @cq94
Address data: why?

- A basic « key » dataset
- Used by many actors
- High economic impact

→ Some studies indicate a 0.5% impact on GDP!
Address data: for who?

Post Office
Address data: for who?

Emergency
Address data: for who?

Start / end point for route calculation...
Address data: for who?

Geocoding: brings non geospatial datasets into the geospatial world....
Available open data in France

A few open datasets in major cities...

Lyon, Toulouse, Montpellier, Rennes, Strasbourg, Mulhouse...

→ only 7.5 % of France coverage

OpenStreetMap addresses ?

→ Less than 10 % of France coverage

→ No global national open dataset available
Many different datasets

- Post Office (La Poste has 4 datasets!)
- National Geographic Institute (IGN)
- Electricity/Gaz company (ErDF, GrDF)
- Phone operators... (Orange, etc)
- Private companies...

→ Minimal collaboration... None of good quality!
Potential open data sources

**Land registry data (cadastre / DGFiP)**

→ Not directly available as « address data »
→ Extraction work needed to get the interesting data

In 2009, DGFiP allowed to use cadastre data to improve OpenStreetMap...
→ used so far only to extract building footprints automatically

*Why not extract **address data** the same way?*
Automatic extraction test...
BANO project starts...

January 2014 : first python scripts tests

April 2014 : BANO project explained during OSM France annual conference in Paris

May 2014 : First datasets published made of

• OpenStreetMap address data

• opendata from major cities

• Addresses extracted automatically from cadastre data (1.3M pdf files downloaded and processed in 10 days !)
BANO coverage...

OpenStreetMap
opendata
cadastre + OSM
cadastre only

Hosted by:

OpenStreetMap France
Nearly 20M locations (90 % population covered)

→ 15.2M addresses points, 3.8M named places, 1M street / municipalities locations

Data updated and published nightly by OSM-FR

→ CSV files, Shapefile, RDF (turtle) for the semantic web (W3C/ISA/INSPIRE ontology)

Data under ODbL 1.0 licence

Also available on data.gouv.fr french national opendata portal...
BANO future...

National (Open) Address Database
National Address Database
(to be announced next week in Paris)
Support from Etalab (data.gouv.fr) to go further...

- First step towards a real key national (open) dataset
- Definition of unique nationwide address identifiers
- Work closer with government agencies (IGN, DGFiP, etc)
- Web interface to simplify error reporting and fixing

BANO benefit for OSM

- Shows where streets and streetnames are missing
- More than 100,000 streetnames added since May (rate doubled thank to BANO)
Questions ?

@projetBANO / bano@openstreetmap.fr

@cq94 / cquest@openstreetmap.fr

christian.quest@data.gouv.fr