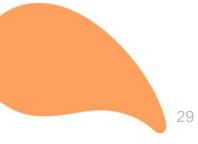


BruGIS, a webGIS for Brussels Urban Planning. Past, present and future

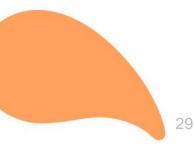
Laurence Micha & Grégoire Vandenschrick





SERVICE PUBLIC RÉGIONAL DE BRUXELLES

- Brussels Urban Development Client Presentation
- Brussels Regional Informatics Center Infrastructure and hosting Presentation
- BruGIS Solution
 - Scope, Means and Team
 - Timeline
 - Architecture
 - Uses
 - Future plans

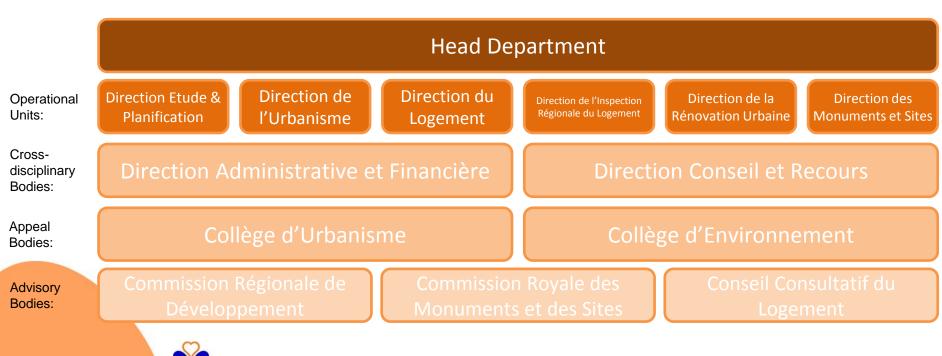


Brussels Urban Development (Our Client) - Presentation

BUD is a Brussels-Capital Region public administration responsible for the sustainable, balanced and consistent management of urban development based on social, economic and environmental needs.

Its tasks are:

Planning, **Regulations**, **Housing**, **Urban renewal**, **Building stock** BUD organigram:



Brussels Regional Informatics Center - Our Infrastructure Provider

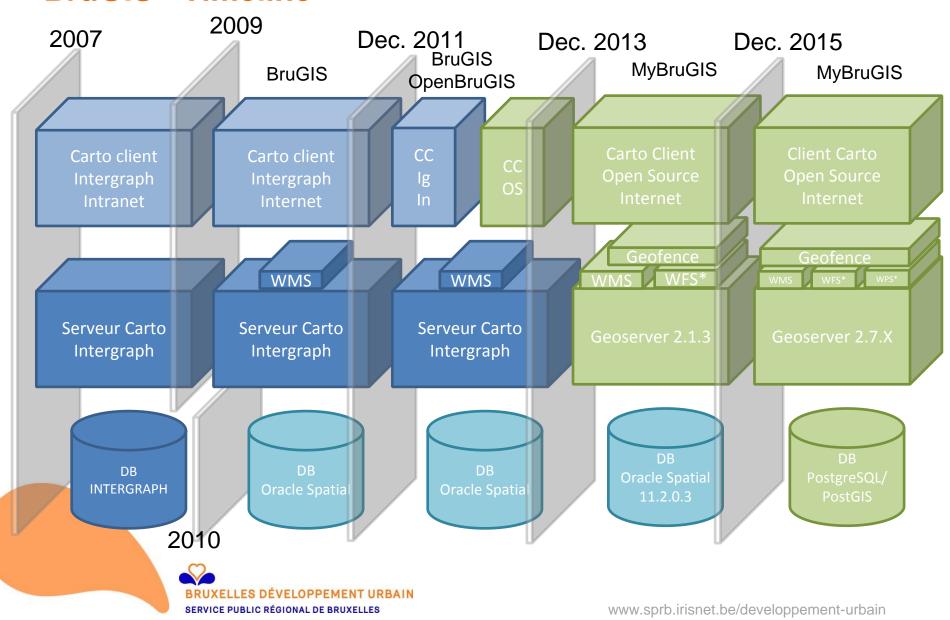
- 3 regional data centers
- Connected to each other through dark fiber
- with dense wavelength division multiplexing
- On which we have traffic IP, traffic fiber channel
- Practically every server is virtualized (x86 and Risc)
- Offering cluster and grid of windows servers and redhat Linuxes
- Offering services and maintenance, installs, backups...
- Vpn, ftp, reverse proxy...
- All our 14 windows 2008 servers are all hosted by BRIC in their infrastructure
- OS is maintained by BRIC, all applications (Tomcat, Geoserver, PostGIS...) are maintained by us.
- Provider of Urbis database, basemap and geolocation tools based on Urbis

BruGIS - Scope, means and team

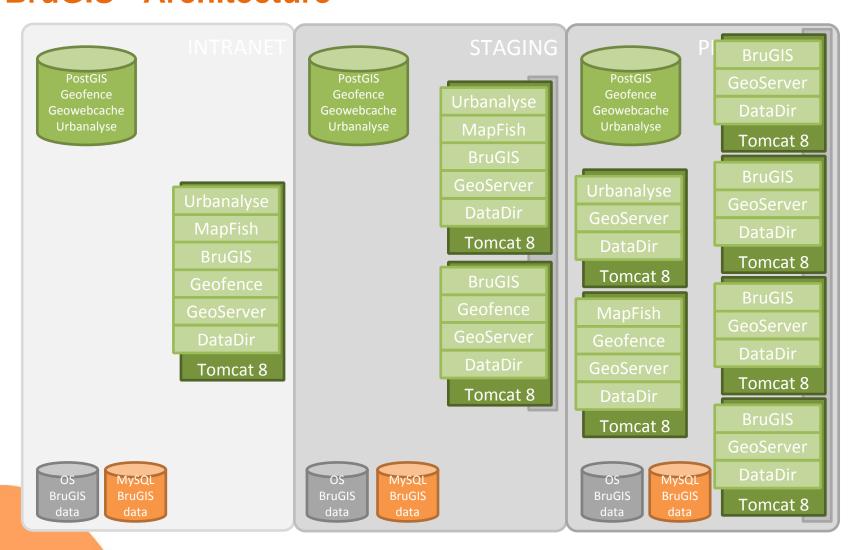
- Part of Brussels Urban Development/Public Service Organisation for Brussels-Capital Region
- Small team of 1 to 2 persons founded around 2002
- To collect, digest and integrate the different existing data(bases) at BUD into one cartographic platform where all the available data could be visualized, overlayed and interrogated.
- Evolved into a 6 persons (4 BUP + 2 BRIC) team from different disciplines and background
- That maintain and develop the entire solution
- Supported by several external private contractors/consultants (1 to 2 manday/week)



BruGIS - Timeline



BruGIS - Architecture



BruGIS – Techs and libs

4 Production Servers running Tomcat 8 with

Geoserver 2.7.2 with session replication, local data_dir MyBruGIS client built on GeoExplorer/gxp with added Uxs

•1 Production Server running Tomcat 8 with

Geoserver, MyBruGIS for INSPIRE compliant WSs

•2 Dedicated Production Server running Tomcat 8 with

GeoFence

Mapfish Print

Urbanalysis WS

1 dedicated Production Server running PostGreSQL/PostGIS for

GeowebCache DBs,

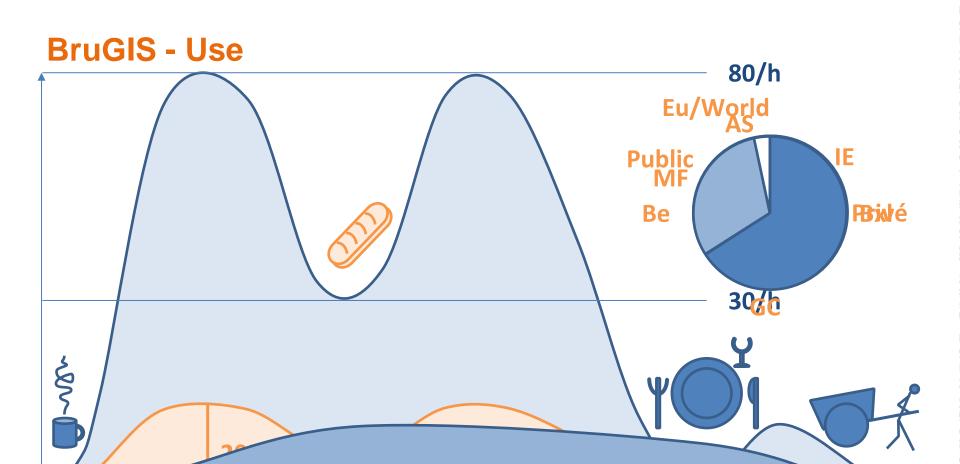
Geofence DB,

Urbanalysis WS administration DB,

Future Data DB

4 Staging servers, 2 Development servers





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BruGIS – Future plans

- Migration from Oracle Spatial DB to PostgreSQL/PostGIS DB
- Development of a responsive design client using Angular JS/ Backbone, Leaflet/OpenLayers 3...
- Development of other WS
- Integration of aerial oblique images
- Integration of 3D data and viewer

• . . .



Code Release - GitHub



https://github.com/Brugis-SPRB/BruGIS





Thank you for your attention

www.brugis.brussels

Contact: brugis[at)sprb.brussels