Cartographic issues

Eurogi, december 7th 2017

6 décembre 2017
GRDF (Gas Réseau Distribution France) was founded on 31 December 2007, and is an independent subsidiary that includes the natural gas distribution activities and is fully-owned by ENGIE.

**Our roles:**

- Designing, building, maintaining, and operating the 197,128 km of the natural gas distribution network;
- Transmitting natural gas on behalf of 46 suppliers in a completely impartial manner;
- Distributing natural gas to our 11 million customers in a completely secure manner;
- Promoting the use of natural gas and a profitable expansion of the distribution network and gas energy;
- Supporting biomethane producers and connecting them to the network.
2015 key data (12/31/2015)

The longest natural gas network in Europe

- 197,928 km
  - Natural gas network, i.e. a network that could circle the Earth almost five times!

- 277 TW h
  - Of natural gas delivered

- €745 million
  - Invested in order to develop, maintain and operate the network

- €1 million
  - Every day, dedicated to the security of the network

And energy conduits serving the French-regions

- 10.9 million customers in France

- 9,528 districts
  - Supplied by the natural gas distribution network

- 77% of the population
  - Lives in a district covered by the GRDF network

- 17 biomethane injection facilities (all network operators)

A dynamic company

- 11,431 employees

- 582 hired staff and 1,040 student apprentices
  - Will be trained in 2016

- €3,409 billion in revenues
Our goal for 2018

Being the gas energy specialist
the trusted partner for our customers, suppliers, professional outlets, and regions in the transition to a low-carbon economy.

Providing exemplary public service
both in terms of the quality of service to our customers, and of the operation of the network in a completely secure manner.

Being a gas supplier that is hailed
for its standards, its performance, and its capacity to innovate, both in France and abroad.

Being an attractive employer
that is considered a reference in its societal role.
Our stakeholders

Other actors in the energy sector

Professionals in the industry

Customers

Consumer organisations

ADEME
French Environmental and Energy Management Agency

CRE
French Energy Regulation Commission

Local authorities and concession grantors

Natural gas suppliers

Public construction works companies

Government Authorities
Any french gaz distributor must have a cartography in order to:

- locate the pipes and buried accessories
- know the exploitation framework

This cartography as to be reliable!
GRDF cartography in a slide

Staff:
- 250 cartographer
- 50 geographic surveyor

Datas:
- 14 million line segment describing pipes in the GIS
- 1.3 millions large scale maps (1/200)

Budget (2016):
- 50 millions € (includes IT systems)

50% collecting geographic data for new layed pipes
50% existing data improving

Phileas: map viewer 1,700 daily visitors out of 8,000 potential users
Anti damages rules
februar 2012

Cartographic features:

- Single portal (INERIS)
- Maps sent by network operators as an answer to DT/ DICT requests

Géo-referenced maps
Precision Classes (A/B/C)
Unique basemap (PCRS)

- Basemap owned by local authorities
-
Map extracts for DT/DICT

Precision Classes (A/B/C)
3 years project

Géo-referenced maps
10 years project

Current basemap : GRDF-owned
Many years project
PCRS, high scale basemap for network mapping:
- XML standard designed by CNIG
- Local authorities initiatives

GRDF committed to PCRS initiatives:
- GRDF database to start with
- Financial support for new LIDAR surveys
- Long term involvement for updating datas

Known initiatives september 2017