

SMART DATA SURROUNDING PIPES: DUALITY URBAN / RURAL?

Exchanging of “Very large scale Core Street map” to prevent Damages on underground pipelines during pipe-works

Pascal LORY – IGN’s head of mission CNIG

This proposal consist in presenting the process which is leading to the implementation and exchanges of “**Very large scale core street map**” in France between networks operators (power, gas and public lightning) and local authorities, so as to prevent damages on underground pipelines during pipe-works.

For local authorities and State relevant administrations, the accurate knowledge of the underground pipeline network is fundamental. Yet now, most of the time, they only arrange with cartographic plans coming from diverse sources, without consistency of scale, and with different quality of accuracy, what harms in the design of projects and expose to risks during the pipe-works.

In 2012, a reform came into force, from then the contracting authorities are responsible of pipe-works’ security, the networks operators have to commit on their pipe-networks’ location, the public works companies have to give evidence of skills bound to the works they execute. The objectives are to improve the accuracy of the pipe-networks location and enhance reliability of the geo information exchanges between stake-holders.

In 2019, the gas, power and lightning underground networks in urban areas will have to be georeferenced in the national system of coordinates with 40 cm accuracy. In 2026, these requirements will be applicable for all the networks in France. The reform involves local authorities and networks operators to use the same shared data to locate the underground pipe-networks: the “**Very large scale core street map**” designed by the stake-holders themselves within the frame of the French national council for geographic information (CNIG) in 2015.

Actuality, stake-holders are steadily meeting within the CNIG to accompany the nation-wide implementation of the “**Very large scale core street map**”: rural areas, local agreements and technical choices are still important issues.