

## Enigma3m – trialed in Veolia Lyon

Primayer introduced its advanced version Enigma, multi-correlator, with integrated 3G / GPRS modem. Monday, April 11 2016, 10 devices have been installed in less than two hours on sites located in the city of Lyon. The devices are equipped with a roaming SIM allowing the Enigma 3M to select the best GSM network. Some holes were created in the chamber for fitting the aerial and optimize the GSM data transmission.



### Easy Installation

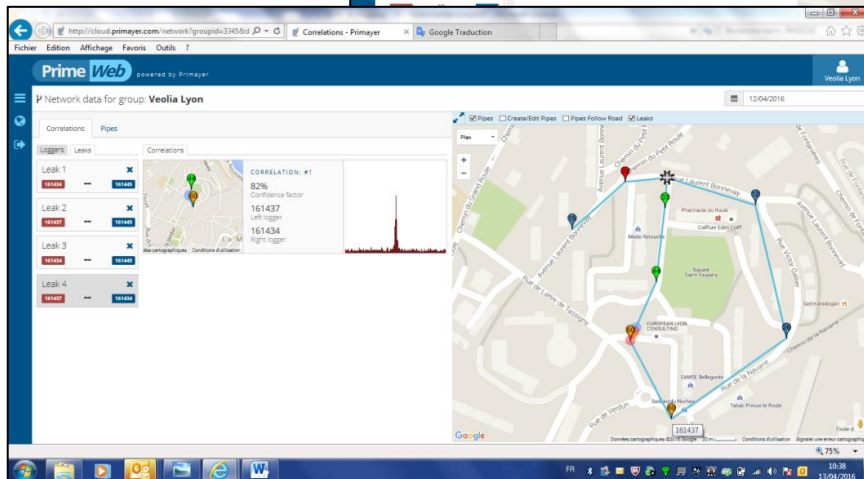
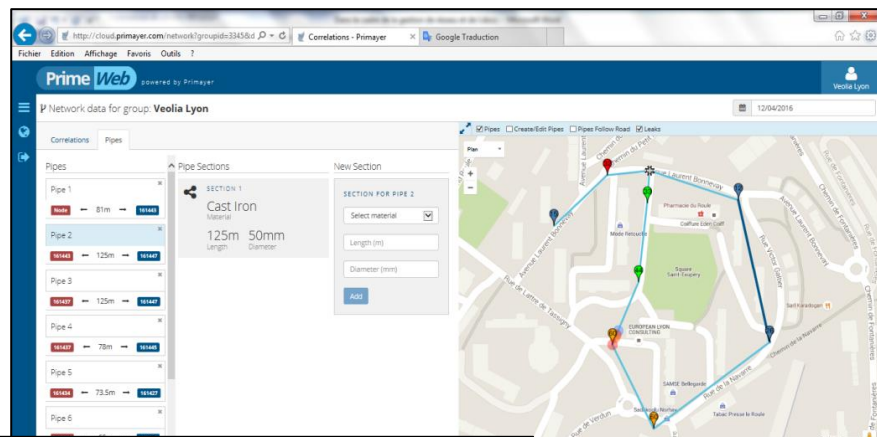
The Enigma3m loggers were installed on the network with a distance of 80 to 125 metres between devices. This position may change in the future depending on the results obtained. The programming module can directly program loggers on site and displays the serial number, battery level and device diagnostics. Once programmed, the Enigma3m sends a confirmation SMS.

### PrimeWeb interface

The next day, the devices transfer the GPS location information and sound files on PrimeWeb interface accessible from any tool connected to the Internet. The operator can then perform a network diagram and change of linear pipeline from its GIS if the distances from default Google Map prove incorrect.

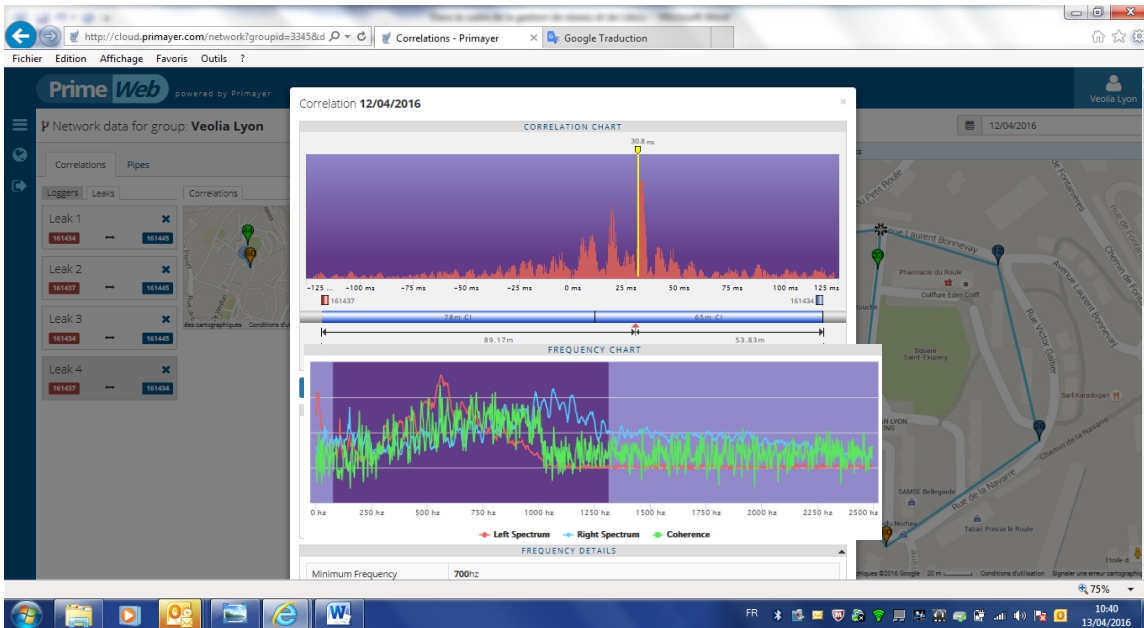
### Rapid leak identification

The deployment of the area identified a leak the next day. The information is summarized and quickly identifies the three devices that confirm the position of the leak. A confidence factor guides the user on the probability of the correlation.



Network information on PrimeWeb tools

Leak report identified on PrimeWeb



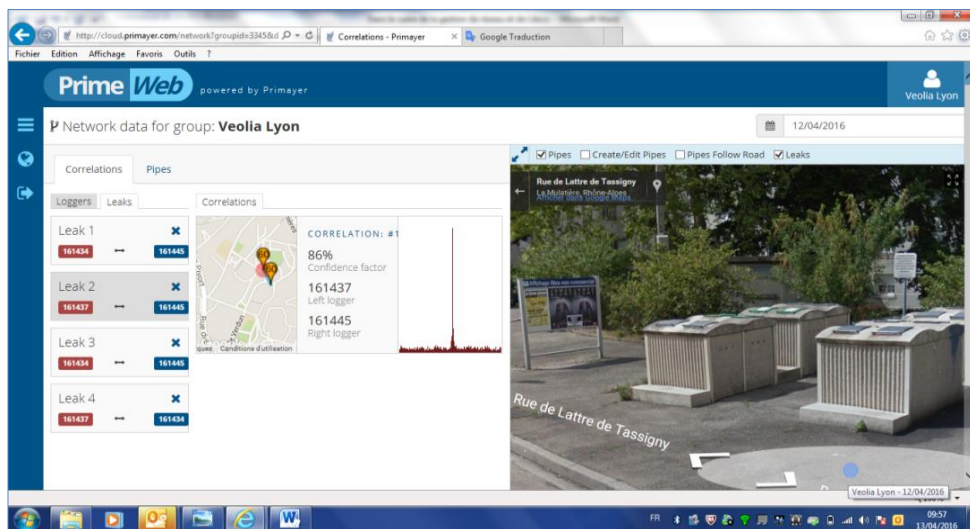
Correlation and frequency spectrum display

### Street View gives visualisation of leak position

Google Map Street View allows the user to anticipate the repair and all legal declaration for site interventions on public roads. The leak was confirmed by an on-site listening on the ground

and boundary by the roadway. Leak reports facilitate the transmission of information within the service.

Street View tool with visualization of the position of the leak



Leak identified by operator



Excavation



Leak found



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