A metropolitan network of sensors for the Internet of Things

The arrival of the Internet of Things has led to **countless sensors being deployed in the urban area**, in particular by the Metropolitan operations department in order to improve the efficiency of the public services via digital technology.

This surfeit of network infrastructure raises questions about financial issues (duplication of telecommunication costs) and health (increased electromagnetic emissions).

An initial study resulted in triggering the **pooling of different sensor networks** between operational departments within a **unifying multi-technology secure and interoperable metropolitan network**.

This network relies heavily on the existing fibre-optic network which connects the metropolitan buildings and CCTV cameras.

Currently the Metropole Nice Côte d'Azur aims to launch a second study with Caisse des Dépôts et Consignations (CDC), in order to identify an economic model that would make it possible:

- for the Metropole to **open and commercialise its Internet of Things network** and the data collected by its sensors,

- for the CDC to **invest on the ongoing deployment of the network** in order to make it a model that can be replicated across France.

The Metropole hopes to support manufacturers in implementing this particularly innovative open network, which will be a world-first.

If a sustainable economic model can be found, this project in the form of a public-private partnership would give the Metropole a **highly-competitive digital infrastructure, to support the Smart and Connected City.**

Key figures

$50,
Sensors managed by the Metropole's departments in 2015

$250,000
Sensors managed by the Metropole's departments in 2020

Schedule

2018 Study local market, with the CDC, to **identify potential customers** (other than the Metropole's departments) for a metropolitan network of Connected Objects

2017 Technical study, with the CDC, to implement a **shared platform to manage and administer the Connected Objects** (see IoT sheet)

Objectives:

▶ **Set up a single network capable of simultaneously analysing different types of data...**
▶ **...to optimise system operations and offer new services**
▶ **Improve operational efficiency and generate a return on operational costs**

LAUNCH ONGOING