



# SMART STATIONS IN SMART CITIES

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## IoT for Lively Stations : case study in France

Etienne Burdet  
Smart City Officer AREP  
4b: Smart Facility Management

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## What most people do when they start an IoT project

- ❖ First : Find a new fancy connected device
- ❖ Second : Wire the station so that **the device** works
- ❖ Last : Try to drive engagement around the device

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Wrong  
Order

Everything is centered around making the specific connected device work. Budget exhausts before the IoT object solves a real problem.

## First: Life

- ❖ Go on the field: interview people, initiate workshops etc.
- ❖ You don't need any IoT device yet



## First: Life

- ❖ *OuiVélo Dockless bikesharing*: Ran 6 month with “human” locks.
- ❖ *Lyon Part-Dieu OpenData*: 6 month and going of workshop to define who needs which data, with what kind of privacy.

## Then: Network architecture

- ❖ From your field work with **people** a data collection and processing scheme will appear naturally.
- ❖ No needs to be specific on the hardware at this stage. Conceptual diagram are enough



## Then: Network architecture

- ❖ *OuiVélo dockless bikesharing*: chatbot on the facebook page of the station, a bluetooth lock and a backoffice.
- ❖ *Lyon Part-Dieu Open Data*: LoRa gateway on optic fiber evrywhere in the station, minimal software layer to remain agnostic.

## Last: Sensors

- ❖ Once you have a crowd, a problem, a scheme for your data, finding the right connected device is a no brainer.





## The Right Order

- ❖ Urban planning: *"First life, then spaces, then buildings – the other way around never works."* (Jan Ghel)
- ❖ SmartCity: *"First life, then network architecture, then sensors – the other way around never works."*



THANK YOU  
GRACIAS

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