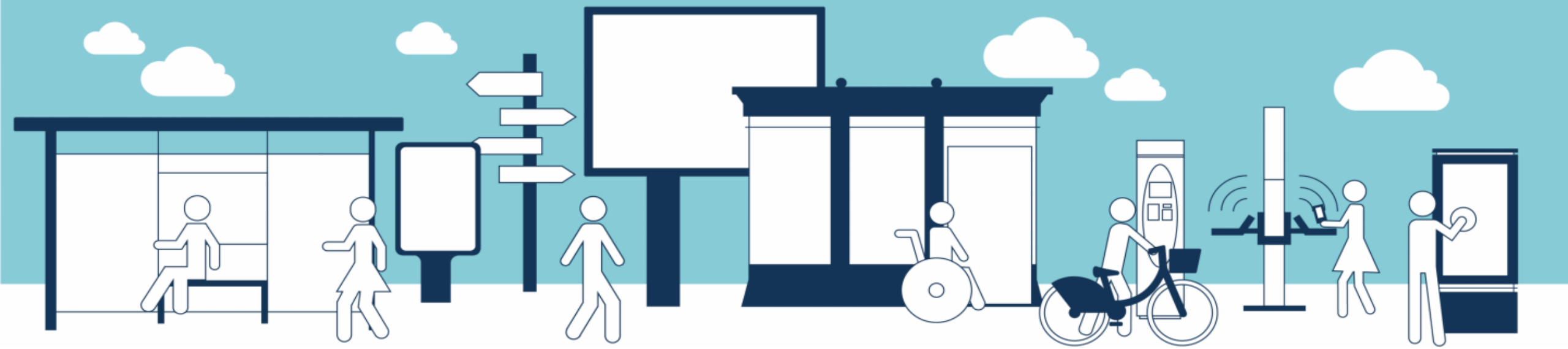
JCDecaux

MANCHESTER CITY COUNCIL

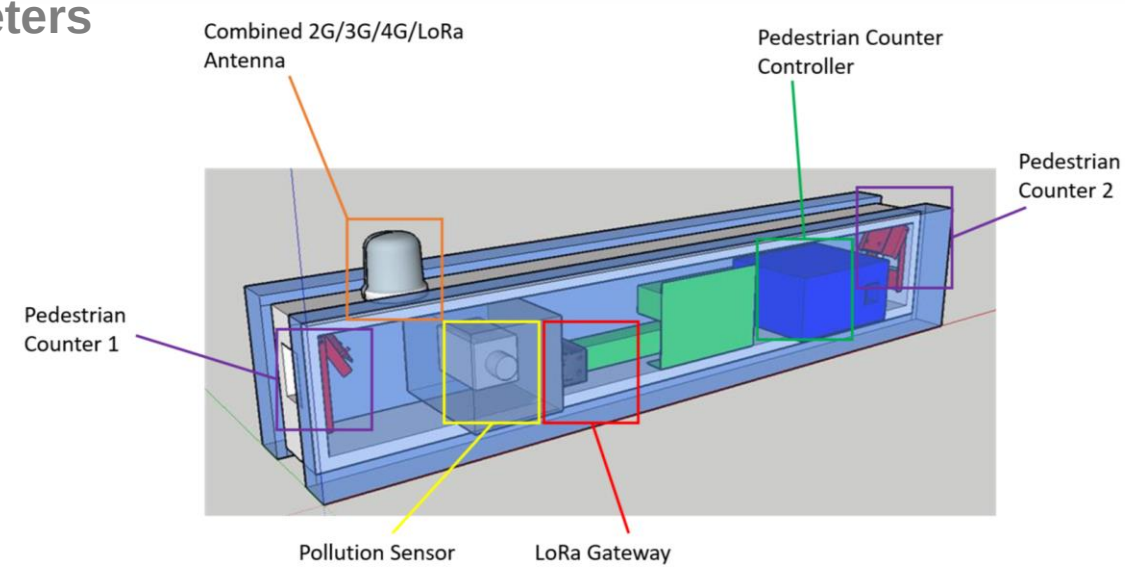
Roadside Advertising Estate

SMART CITY TECHNOLOGY



Optional Functions and Sensory Parameters

- UV / Pressure / Temperature
- Air Quality Monitoring
- Wayfinding
- Footfall Sensor
- Wifi Small Cell Enhanced 4G / 5G
- Security Camera
- Defibrillator



airly

London Air



JCDecaux

airly



An ultra-local network of Airly sensors provides real-time air quality data

Airly would provide the service through collaboration with JCDecaux, utilising our existing and proposed roadside infrastructure

AIRLAB SOLUTIONS POUR NOTRE AIR

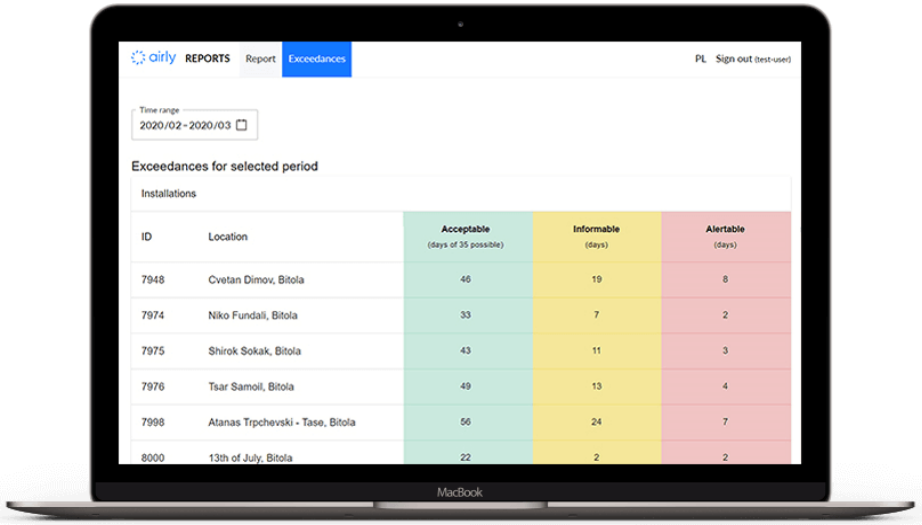
The Best Outdoor Sensor according to AirLab, Paris 2019

AIR PARIF

JCDecaux

SENSORS INTEGRATED INTO SMART CITY BOX

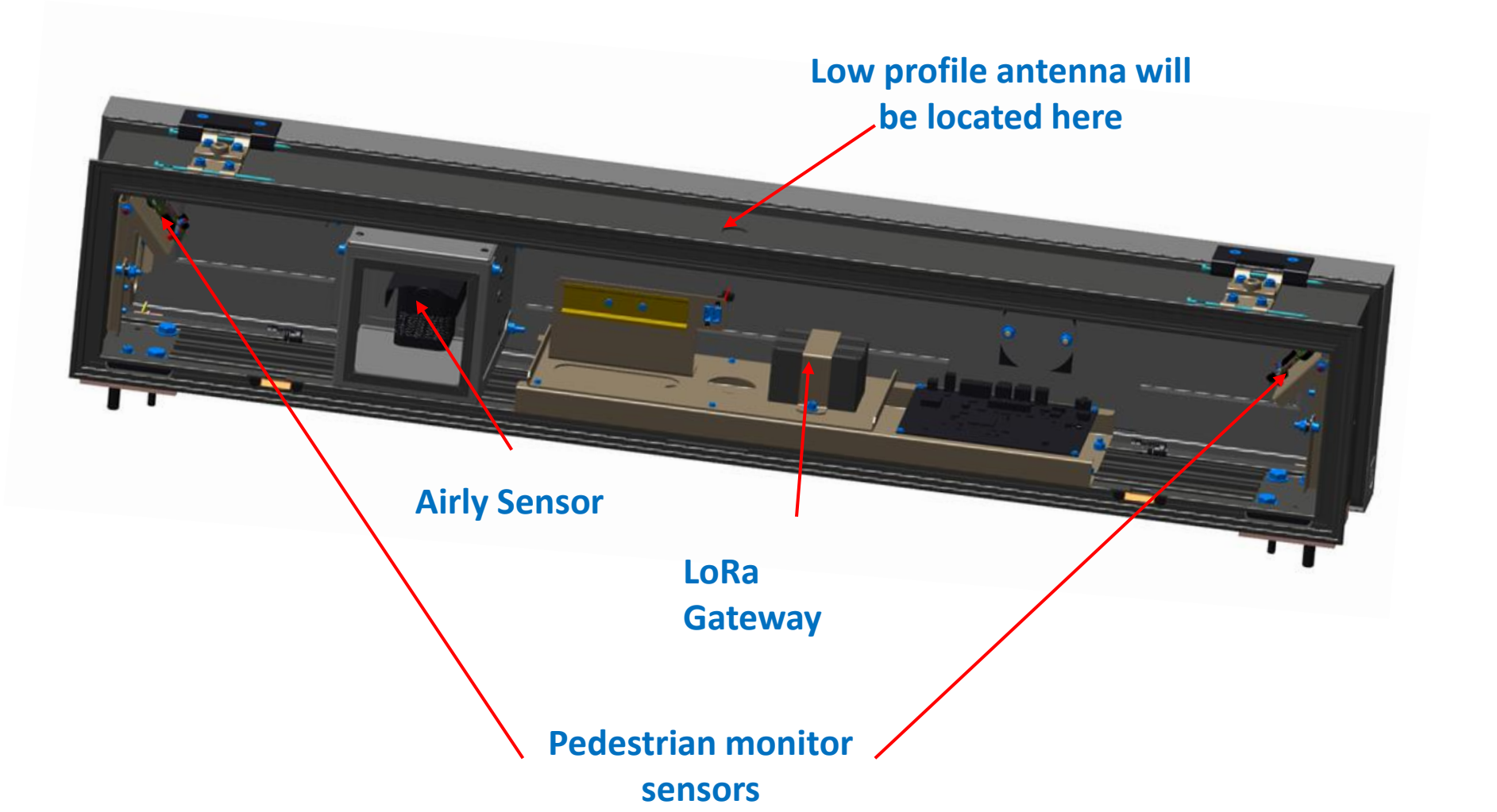




- Small (size of iPhone)
- Easy to install plug & play devices
- Measurements are made in real time (every 10-15 mins)
- Data is automatically sent to cloud for calibration and interpretation
- Secure API access provided to designated users
- Able to access current and historical data
- Easily integrated with analytical applications

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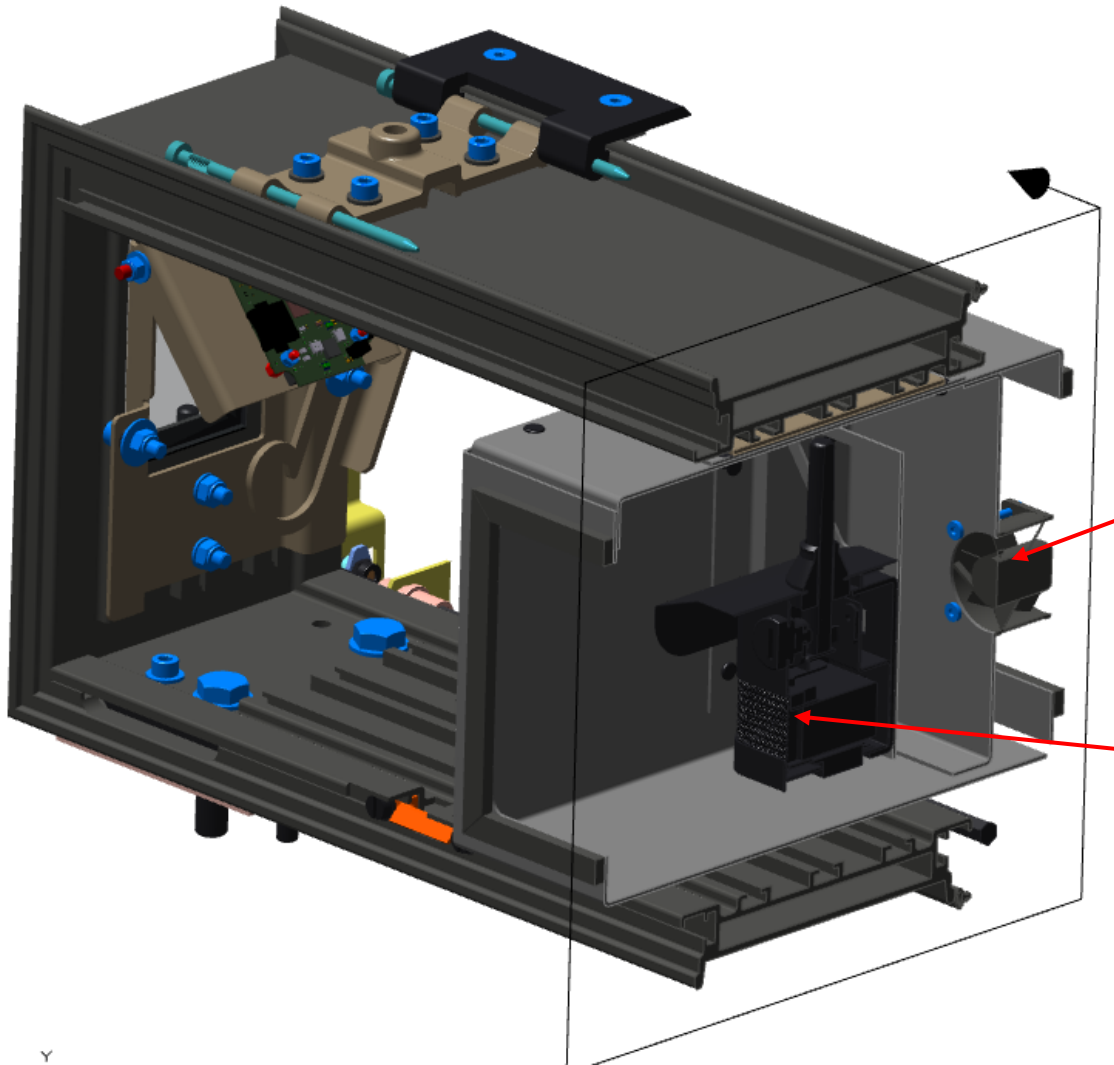
TOP HAT COMPONENTS



JCDecaux

TOP HAT COMPONENTS

Cross Section



Fan for controlled ventilation

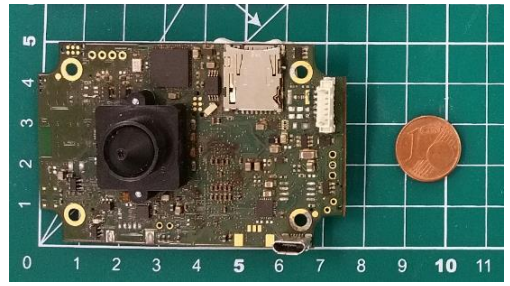
Airly sensor

JCDecaux

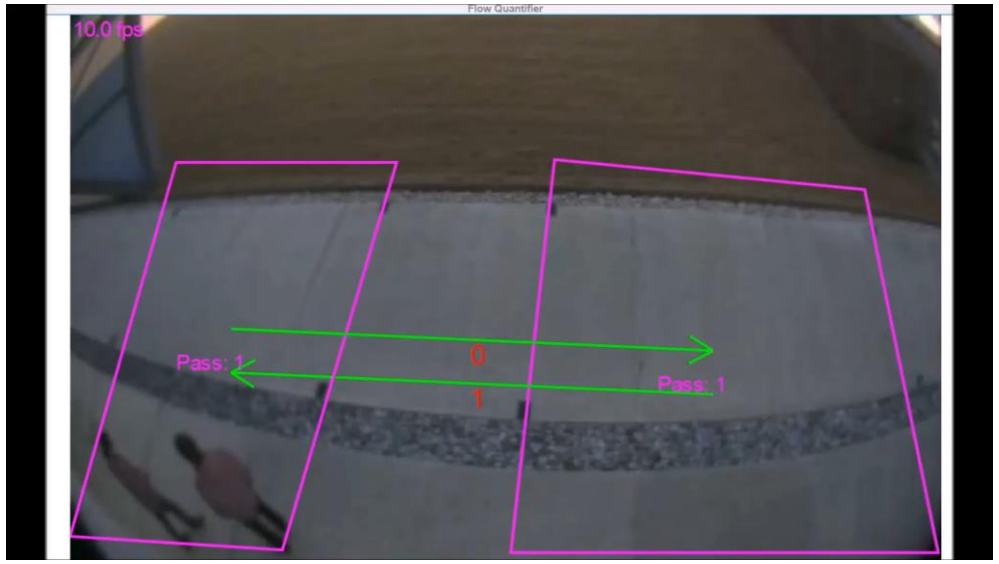
TOP HAT COMPONENTS

Pedestrian Counter

- Pedestrian Monitors provided by Corp
- Left video shows standard camera view
- Right video shows anonymised pedestrian monitoring
- In line with GDPR regulations



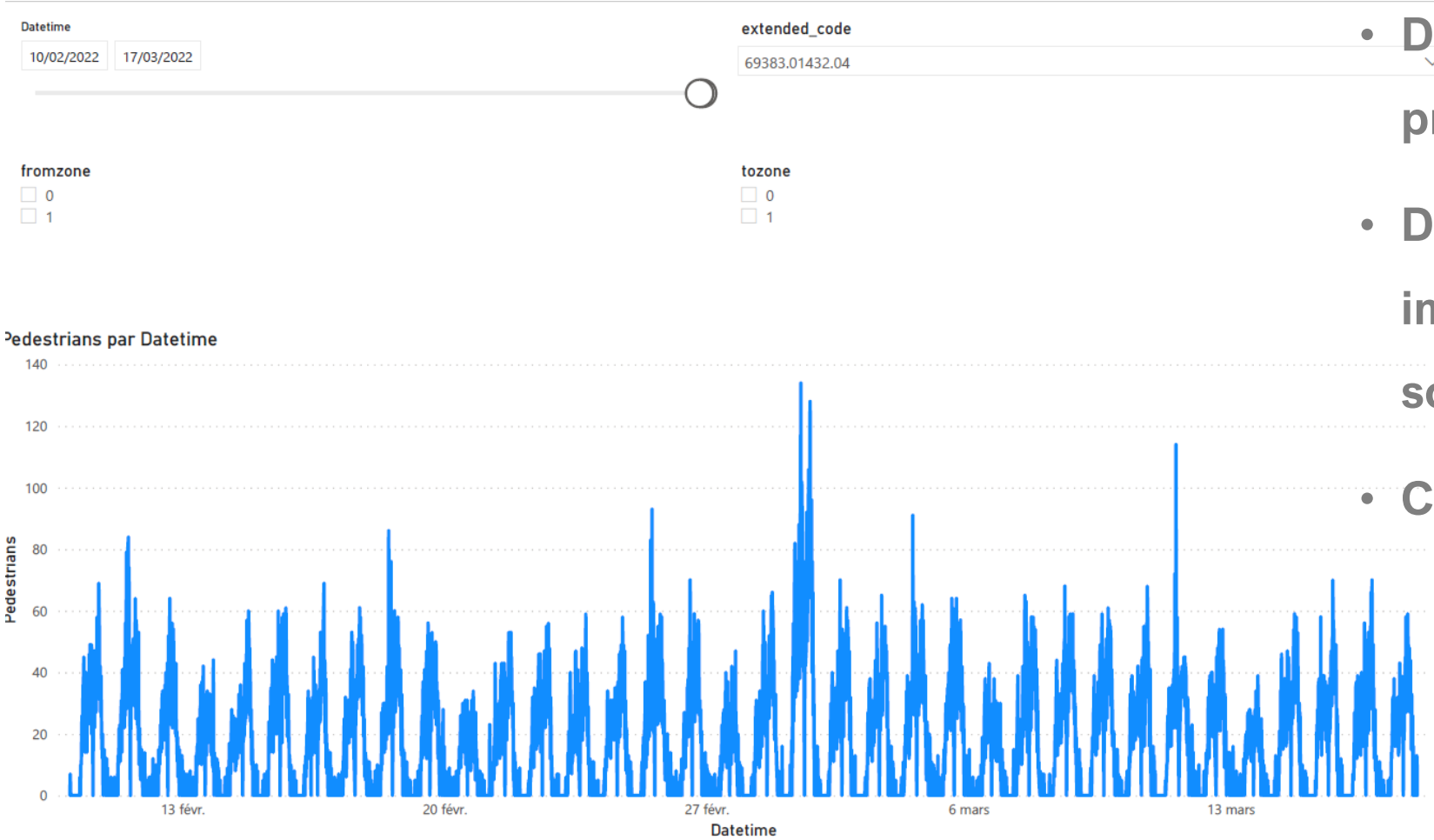




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TOP HAT COMPONENTS

Pedestrian Counter



- Data is collected and provided via a dashboard
- Discussion to be had about importing data into Council software
- Current format shown below

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TOP HAT COMPONENTS

LoRa Gateway Supplied by Helium

Providing connectivity to send data collected from Pedestrian Monitor and Air Quality Monitor

Antenna Supplied by Maxtenna

Single antenna will provide connectivity for all items

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TOP HAT COMPONENTS

Pedestrian Counter

Components	Quantity per top hat	Function	Supplier
Pedestrian Monitors	2	Anonymously monitoring pedestrian movements to provide data to Local Authority	JCD Corp
Air Quality Monitor	1	Provides accessible data on air quality around Town or City centre	JCD UK (Airly)
LoRa Gateway	1	Provides connectivity for the assets to be able to send data being collected	JCD UK (IT)
External Antenna	1	Single antenna from Maxtenna for use with the Air monitor and LoRa	JCD UK (IT)


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