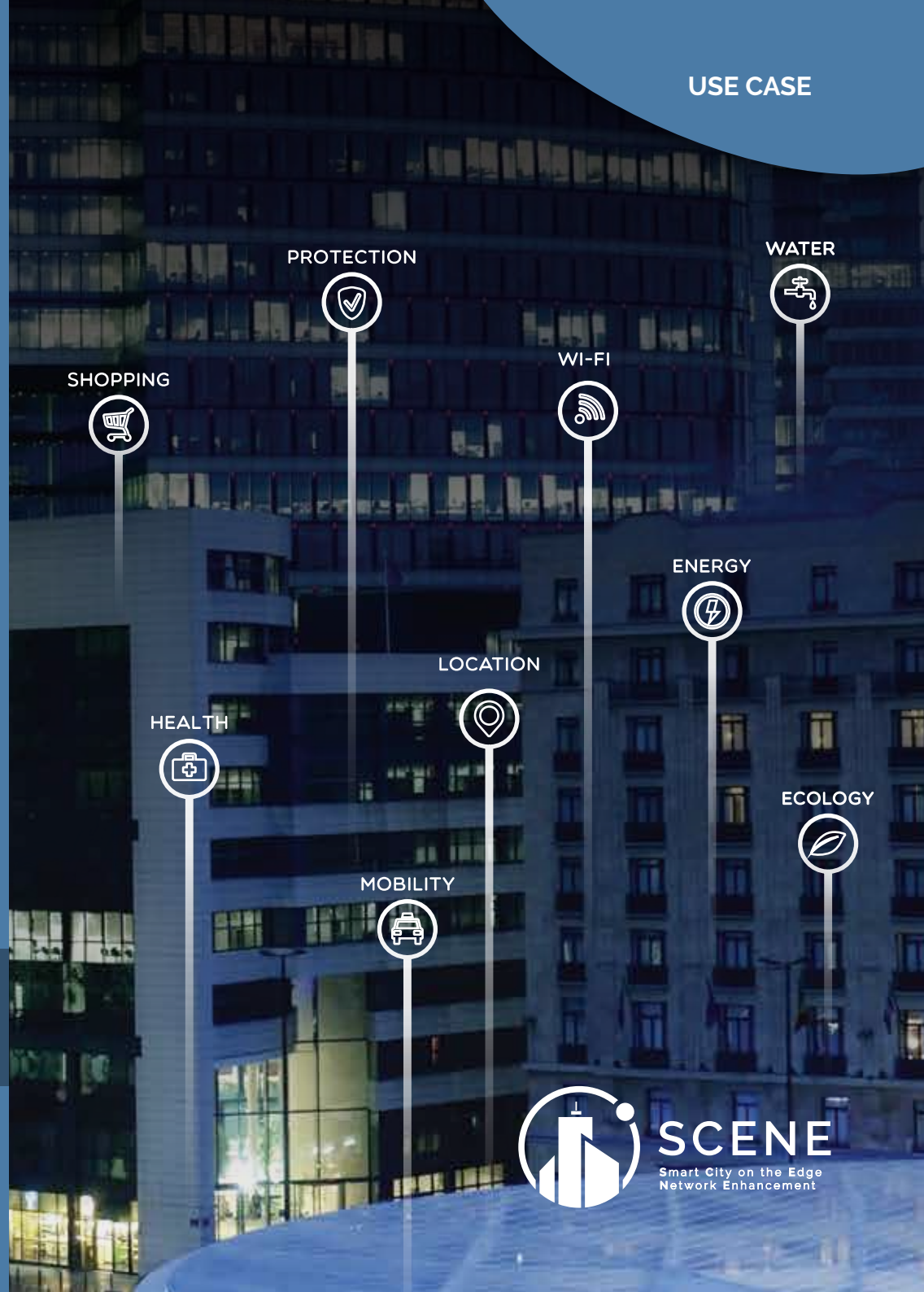


Contact us:

-  [contact@scene.fr](mailto:contact@scene.fr)
-  +33 2 28 46 71 24
-  France, Italy, Portugal
-  <https://scene-project.eu>
-  @scene\_project



This project has received funding from European Union H2020-EIC-FTI-2018-2020 call, grant agreement n° 831138.



# What does SCENE offer?

- Innovative IoT Smart City Services Infrastructure Solution
- Mobile and scalable IoT connectivity
- Edge computing capability
- Affordable IoT Smart City Services realization
- Content Delivery Solution

## Components

- Low-cost • Low-power
- Wi-fi Communication Protocol
- Bluetooth Communication Protocol
- BLE Communication Protocol
- LoRa Communication Protocol

### Sensors



### Content Delivery



- Download content
- Internet Access
- Content caching
- Prefetching techniques



### Intelligent Gateways



- Mobile (bus or other vehicles)
- Able to reach remote areas
- 4G Communication System
- Edge Computing

- Collection and Safe Storage of data
- Performance of Advanced Analytics
- API Layer for customer access
- Dashboard

### Central Service Platform



## The SCENE Platform has been tested and validated with following:

### French Use Case

Goal: Smart Environment

Concern: air quality

**How?** A sensor fixed in local buses will be able to measure, collect and store data on air quality/pollution. In case the sensor isn't already fixed in the Intelligent Gateway, it will wait for an Intelligent Gateway to come within the communication range and transmit the information. The Intelligent Gateway will relay this information to the SCENE Service Platform for further analyzes and decisions.

### Italian Use Case

Goal: Smart Security

Concern: urban infrastructures and building safety

**How?** A set of sensors (accelerometers or IMU units) that measure displacements vibrations and rotations will be able to monitor some specific parameters of urban infrastructures and building (e.g. the effects of an earthquake on the usability of the infrastructure or parameters on the state of the art of ancient and artistic buildings/monuments due to traffic vibrations, etc.). Such sensors will collect those data and store them in their own internal memory. They will wait for an Intelligent Gateway to come within the communication range and transmit the information to it. The Intelligent Gateway will relay this information to the SCENE Service Platform for further analyzes and decisions.

### Portuguese Use Case

Goal: Smart Mobility

Concern: abusive double parking

**How?** A fixed sensor (camera) will be able to detect a double-parked car, take a picture (evidence) and store additional information such as time location and the license plate number. After a pre-determined and programable time, the system will take another picture of the same area and if the car is still parked then the system registers the event as a double-parking violation. Otherwise, the first picture will be deleted. The sensor will wait for an Intelligent Gateway to come within the communication range and transmit the event information and evidence. The Intelligent Gateway will relay this information to the SCENE Service Platform, without keeping any copies after successful transmission. To protect privacy, other license plates and any human faces will be blurred in the sensor.

