

# FAQs Conectum

## 1. What is a Smart City?

Smart Cities are cities where new information and communication technologies (ICTs) are being adopted to increase operational efficiency, share information with the public and improve the quality of services, the well-being of citizens and their active participation.

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## 2. What services does Conectum offer?

Conectum provides a platform for the deployment of telecommunications networks and sensors: for example, 5G and internet in towns and villages where it is not profitable to deploy fiber. From these networks public or private services can be provided, such as:

- Healthcare
  - Social services
  - e-commerce
  - Tourist information and cultural services
  - Public services
  - Container control and street cleaning
  - Parking space management and restricted access control
  - Local traffic management
  - Sensorization of environmental parameters and information screens
  - Remote control of water meters
  - Lighting control
  - Initiatives and applications in the tourism sector
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## 3. How can WIFI be brought to unpopulated or historically protected areas?

By means of a radio link, or "aerial fiber", quality internet is brought to a point in the municipality or the cultural heritage area. From there, a quality WIFI network (speed: 100 Mbps) is deployed. As many Conectum® systems as required can be installed to extend the coverage of the network.

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## 4. What is Efficient Lighting?

The CONECTUM® device provides the sensor layer where the luxmeter is located. This measures the street lighting level in real time. The processing layer will calculate and act on the regulation of the streetlight by adapting the power supply. This device, in turn, feeds all the devices through its power layer.

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## 5. What does an environmental sensor achieve?

It succeeds in collecting information on atmospheric pollution, noise pollution, temperature or relative humidity. Processing this data offers new possibilities to manage traffic, and services to improve environmental quality.

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## 6. How can water be controlled and managed remotely?

Remote water irrigation can be controlled by sensors located in water meters. Processing the information and sending it to the company in charge of the different services makes it possible to minimize municipal staff resources needed to read water meters and monitor consumption in real time, thus enabling leaks to be monitored and detected early, with the corresponding savings in

consumption. Real readings can also be taken, preventing any fraud.

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### **7. How can the system help manage traffic in the city?**

By processing data locally, based on signals from vehicle devices and other sensors installed on the road and in the devices themselves.

The combination of the use of transponders and RF antennas provides location monitoring far superior to GPS, identifying the position of all moving and parked vehicles.

