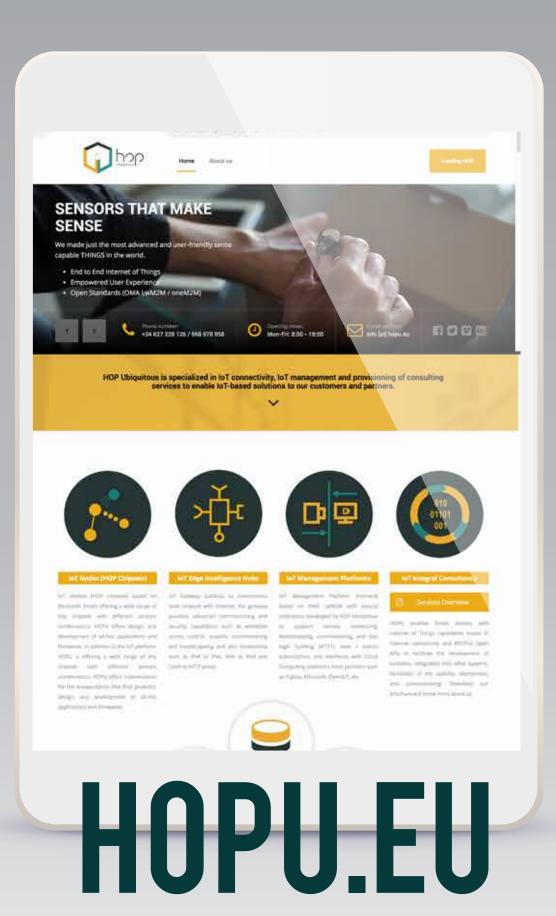
### SAARTCITES A different way to understand B your environment





# 

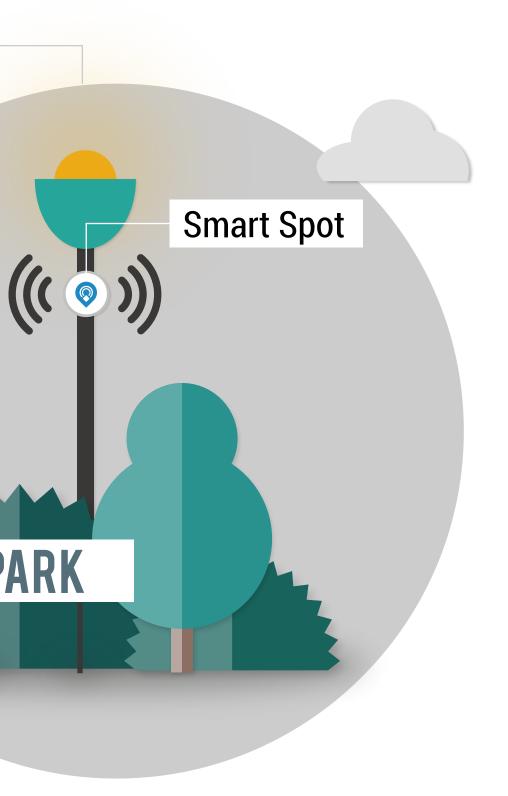
We create innovate cities with the goal of improving the quality of life thanks to the customized design and deployment of Smart POIs (Smart Point of Interacction), through the action of citizen co-creation processes, tourism experience management, city monitoring and intelligent systems integration.

# SOLUTION OVERVIEW: SOLUTION OVERVIEW:

They have the capacity to create an area of interaction for citizen and visitors.

People can discover an online content since the Smart Spot sends out a URL by Physical Web, so people can find and take advantage of digital services (bookings, purchase and pay, participate, etc.. ) in physical places.

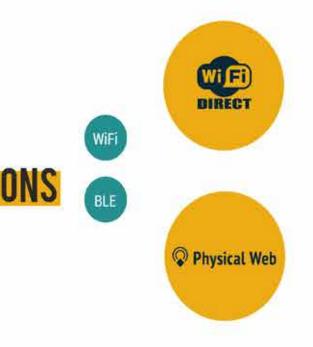
Also, the Smart Spot has other functions such as measuring air quality levels, temperature, humidity, energy, noise and it can count people who have their Smartphones Wi-Fi switched on in an area (Crowd monitoring).



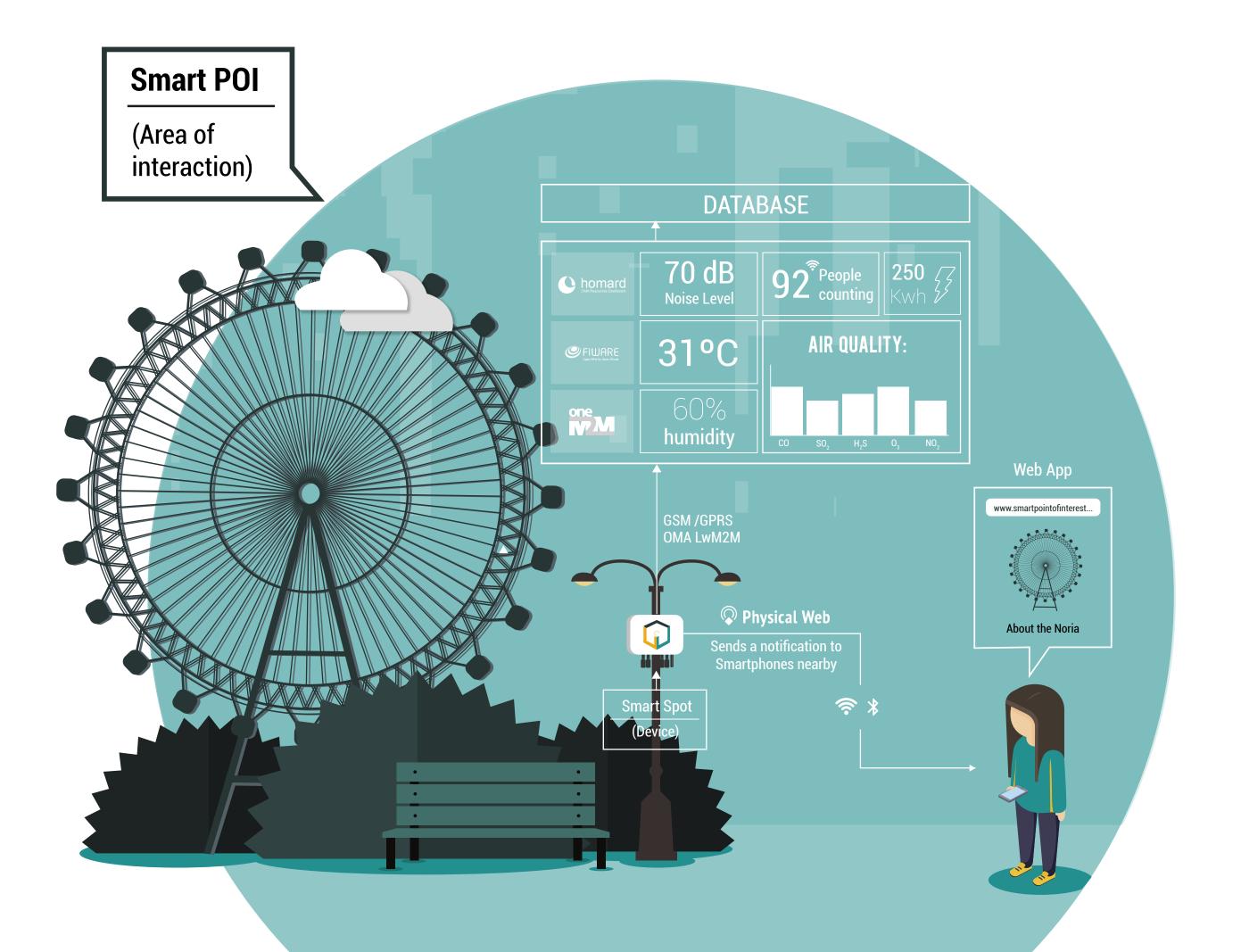
**Smart POI** 

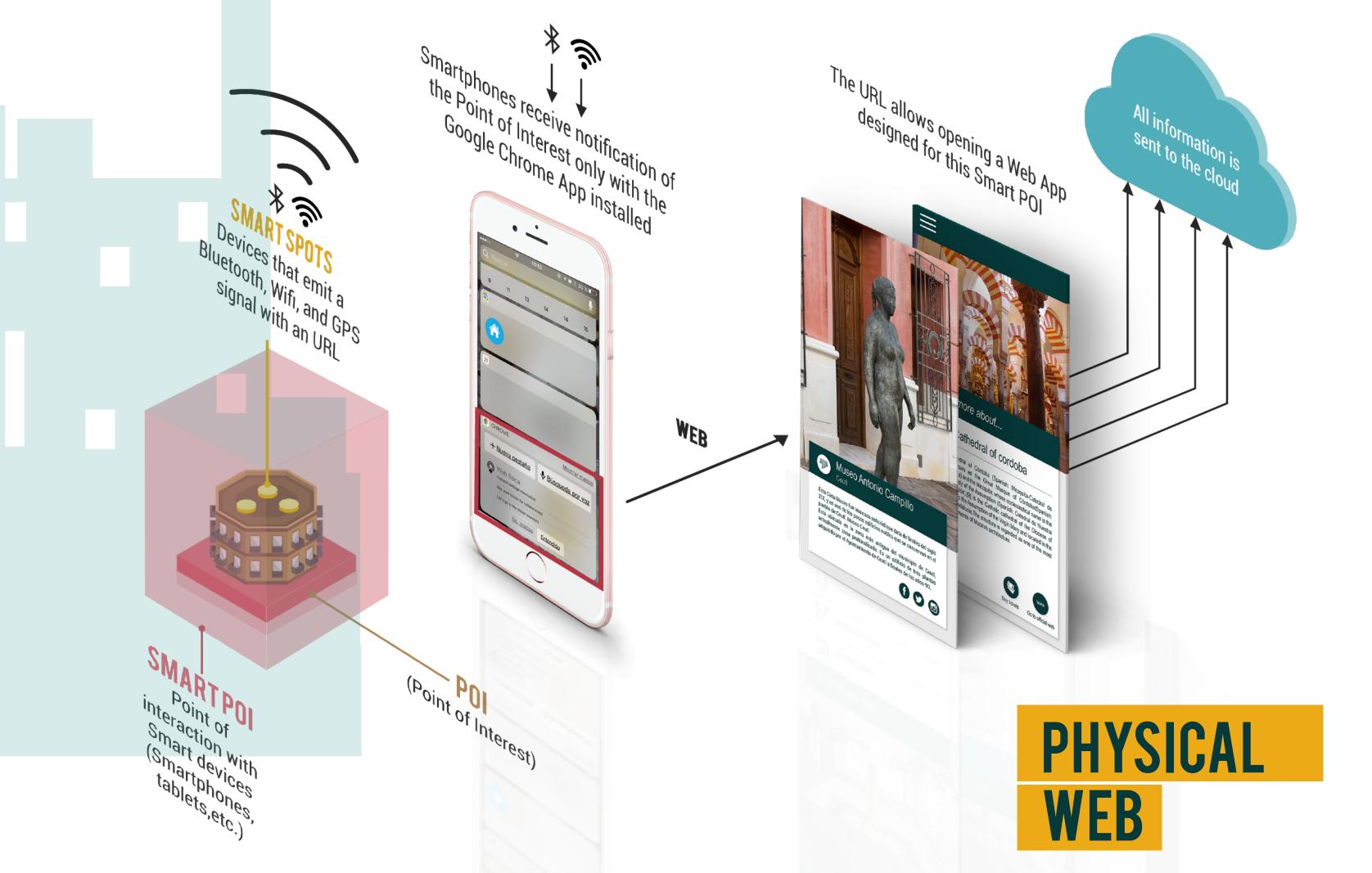
### **SMART SPOT USES**











SOLUTIONS SMARTTOURISM CITIZEN ENGAGEMENT ENVIRONMENTAL MONITORING

SMART CITY



# SMART TOURISM

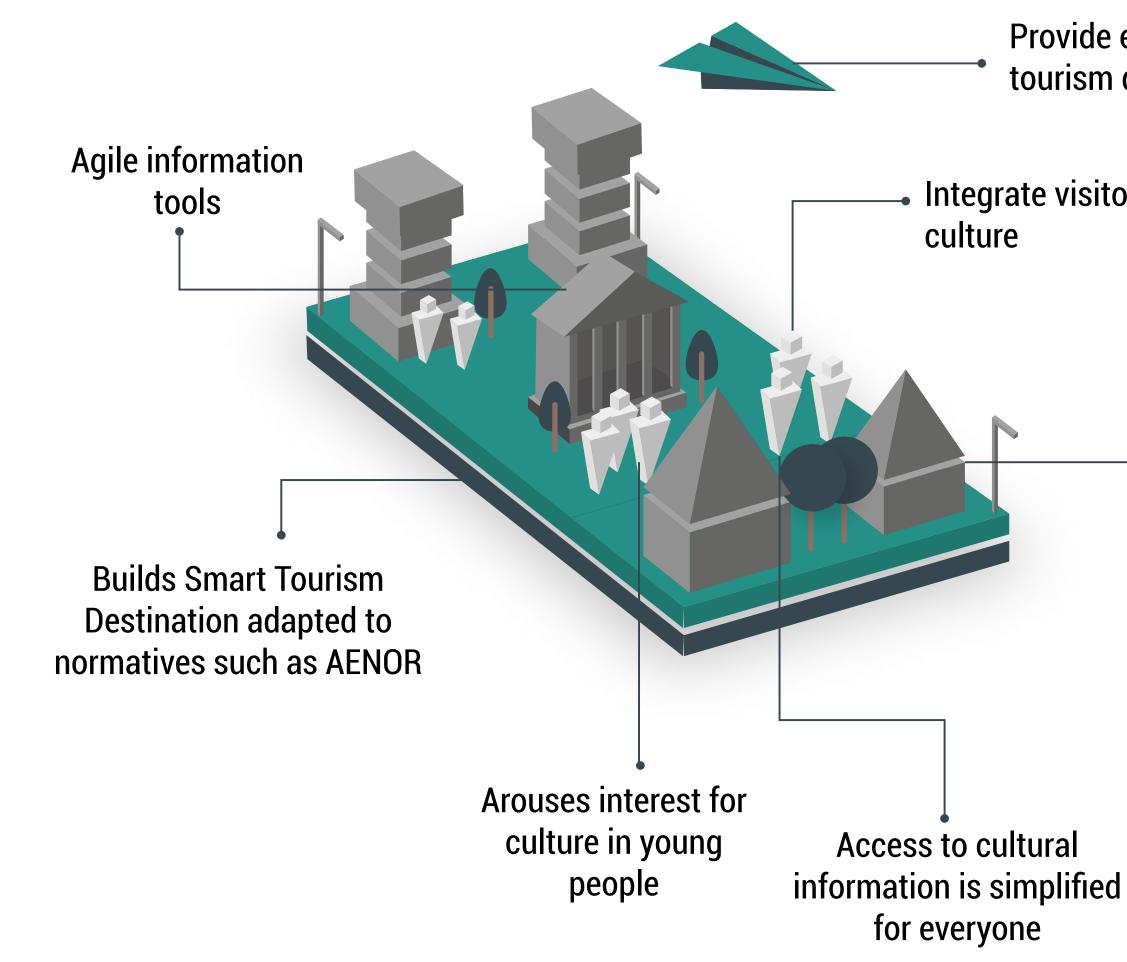
Turn tourism in an agile experience

Provide information about culture

Contribute to publicize tourism

Develop Smart Points of Interaction (Smart POIs) for visitors

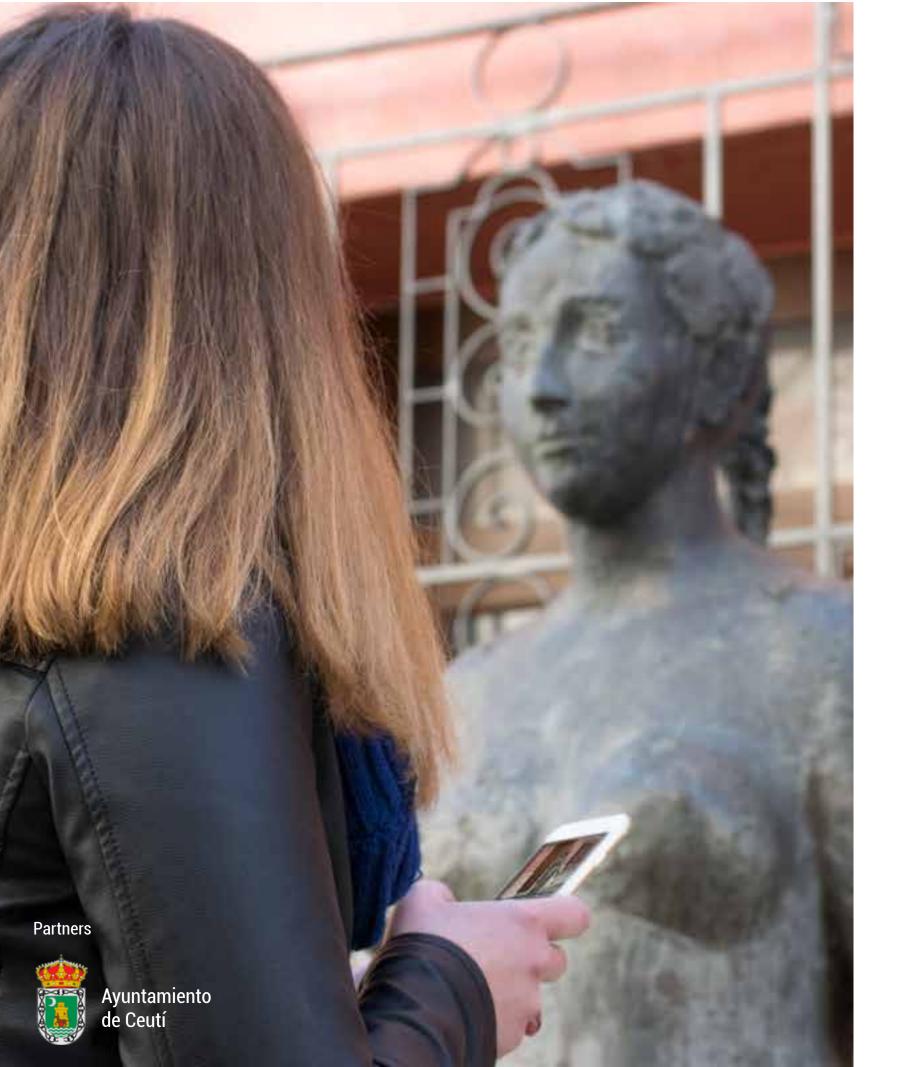




#### Provide easy information about tourism destinations

Integrate visitors into the city

#### Tourist routes are adapted to individual preferences



# SMART CEUTI

16 Smart Spot deployed



Creation of experiences





#### **Content adapted** to the destination



Design and develop the Web App

#### Smart Destination-Ceutí, Murcia

- 1. Escultura a la entrada del Museo Antonio Campillo
- 2. Mural de Torregar
- 3. Museo 7 Chimeneas
- 4. La Conservera
- 5. Iglesia Santa M ª Magdalena
- 6. Ruinas árabes
- 7. Ermita de San Roque
- 8. Noria del Boticario
- 9. Mural de Ouka Leele
- 10. Mural de Belzunce
- 11. Plaza del Ayuntamiento
- 12. Mural de Antonio Maya (barrio de las vacas)

13. Escultura de Manolo Valdés

the local division in which the local division is not the local division of the local dinted dintere division

- 14. Escultura Miguel de Cervantes junto a Biblioteca 15. Homenaje al Emigrante – Plaza Nueva
- 16. Escultura de Pedro Chillida Parque del Mercado





### TRANSFORMING CEUTI INTO A Smart destination



### Necessity

Ceutí has a wide artistic, cultural and intangible heritage needing new tools in order to broadcast the offer and new interactive information about it that connects its citizens and visitors with the culture.



#### New tool

We are designing a specific solution for this village using our Smart Spot to disseminate information about its principal points of interest.



#### New information

We are working with the citizens of Ceutí to co-create new content about the points of interest that explains the history as told by people who have lived experiences around this heritage.



#### Our solution

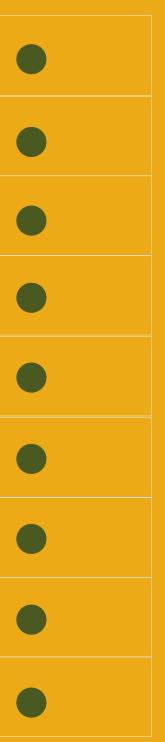
All these stories have been collected in short time videos that upload to different web apps that have been sent by Smart Spots through Bluetooth and Wi-Fi signal to Smartphones nearby without the necessity of a native app installed.

#### Our solution to Smart Destination is adaptated to your needs

	Basic	Pro	
Smart Spot (hardware)*			
M2M Connection			
Data Broker Cloud			
Open APIs			
Device Management platform: Homard			
oneM2M platforms conectivity			
Format and consulting			
Tourism Web-App design			
CARTO/FIWARE data visualization			

\*The numbers of Smart Spot depends on the project

#### Full



# CITIZEN ENGAGEMENT

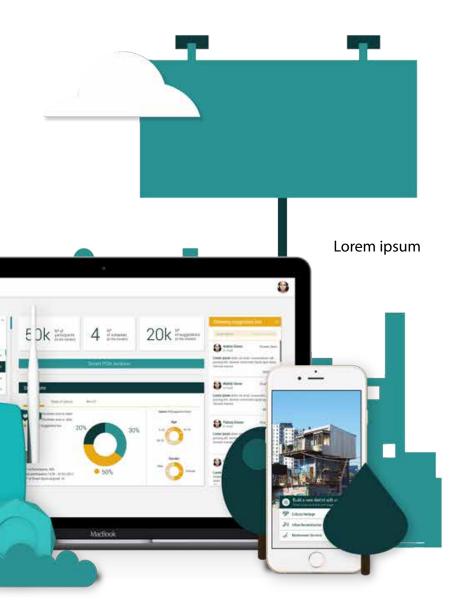
Develop ideas

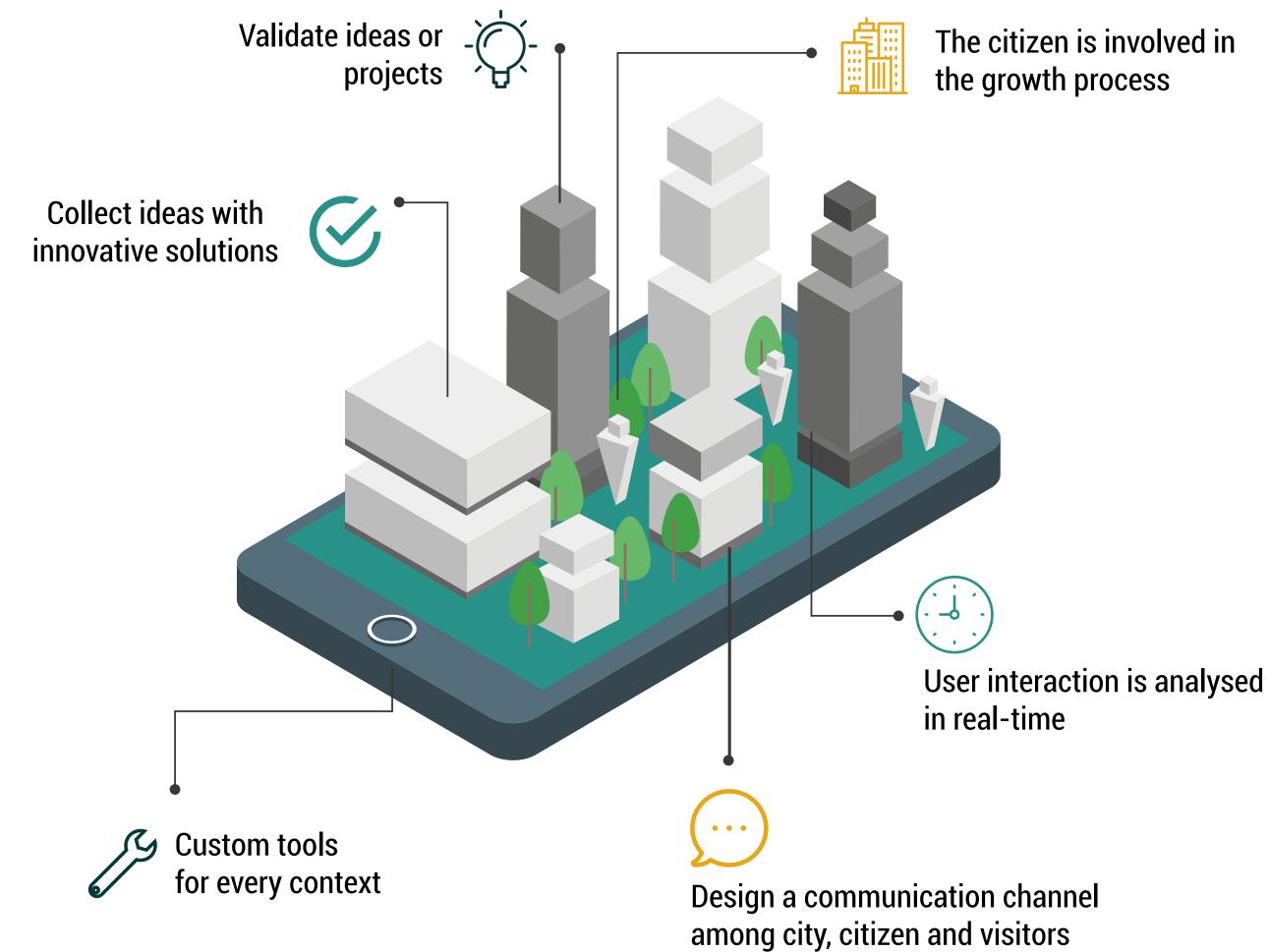
Validate and test project

Analyse people interaction in real-time

Customize tools for the city

Develop communication channels between users and city







### SIDI **IN AARHUS** (DENMARK)



•	

Creation of experience

Web app develop and design



RR.SS. campaign



Platform of data visualization

Partners









19 Smart Spot deployed



150 posters & flyer distributed



Improvement experience



Analysis of results

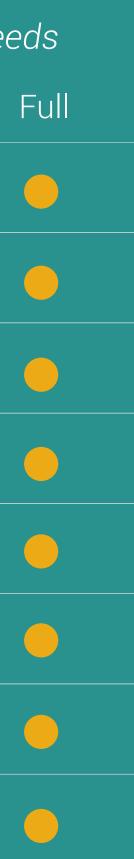




#### Our Co-creation solution is adaptated to your needs

	Basic	Pro	
Smart Spot (hardware)*			
Device Management platform: Homard			
M2M Connection	-		
Data Broker Cloud	-		
Open APIs			
Format & Consulting	-		
oneM2M platforms conectivity	-		
Co-creation Web-App			
CARTO/FIWARE data visualization			

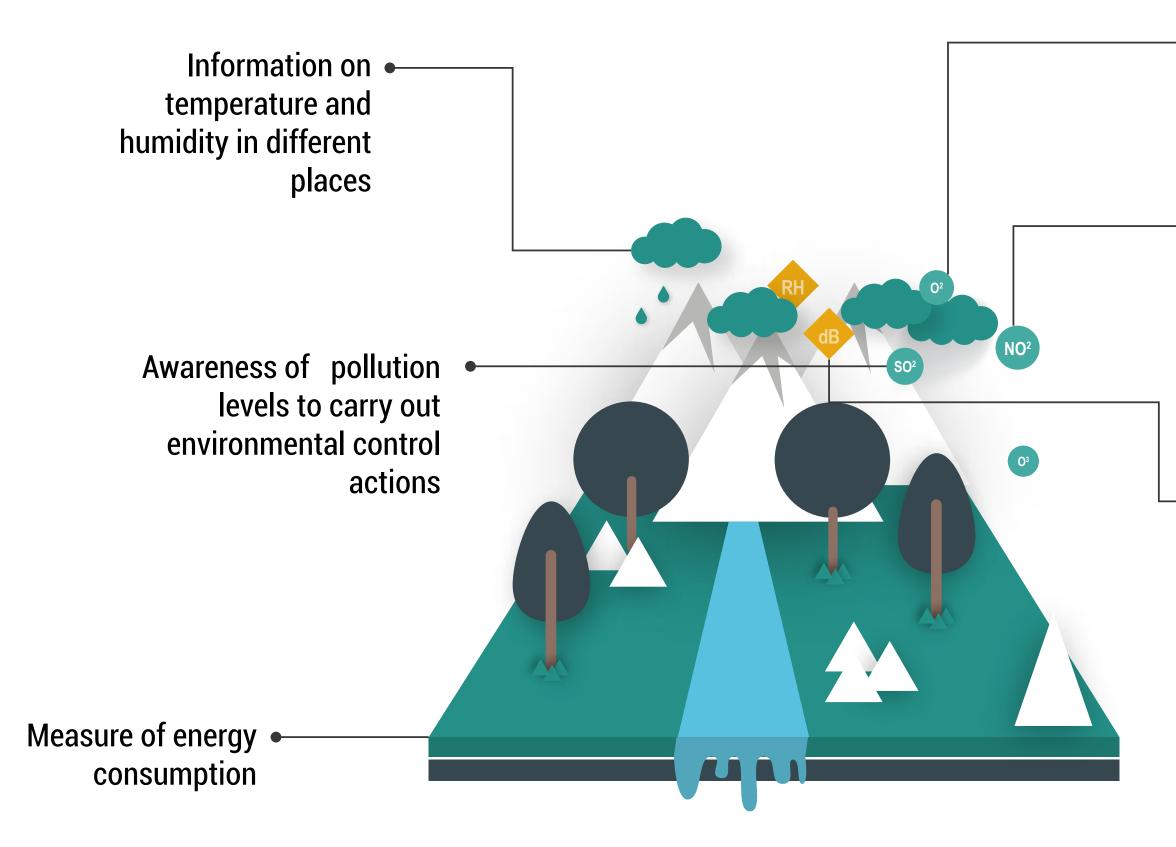
\*The numbers of Smart Spot depends on the project



## SENSORIZE YOUR CITY

- Temperature
- Humidity
- Air quality  $(NO_2, O_2, SO_2, O_3)$
- Energy
- Noise
- People counting (crow monitoring)

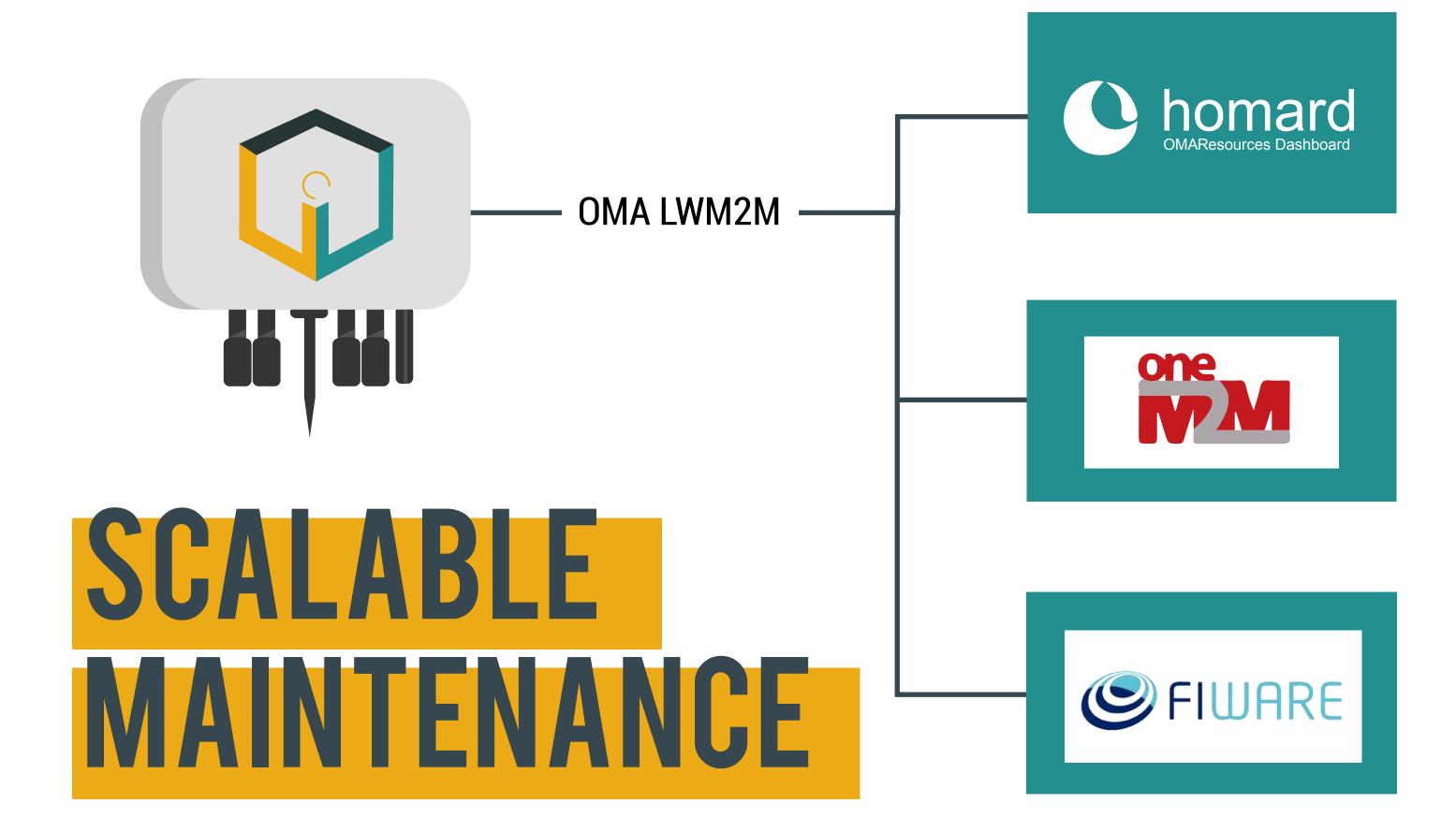




Real-time data

Pickup data on different gases NO<sub>2</sub>, O<sub>2</sub>, SO<sub>2</sub>, H<sub>2</sub>S,O<sub>3</sub>,

 Inform about noise level in different city places







#### **Software Management:**

Enabling the installation, removal of applications, and retrieval of inventory software components already installed on the device and the most relevant firmware upgrades over the air.



#### **Diagnostics and Monitoring:**

Enabling remote diagnostic and standardized object for the collection of the memory status, battery status, radio measures, QoS parameters, peripheral status and other relevant parameters for remote monitoring.



#### **Connectivity and security:**

Bluetooth, cellular connectivity), proxies, list of authorized servers for remote firmware upgrade and also all the relevant parameters for enabling secure communication.



#### **Device capabilities:**

Allowing to the Management Authority to remotely enable and disable device peripherals like cameras, Bluetooth, USB, sensors (ultrasound, temperature, humidity, etc.) and other relevant peripherals from the nodes.

Lock and Wipe: Allowing to remotely lock and/or wipe the device, for instance when the device is lost (relevant for devices in open ocean, air etc.), or when the devices are stolen or sold. It enables the remote erase of personal / enterprise data when they are compromised.

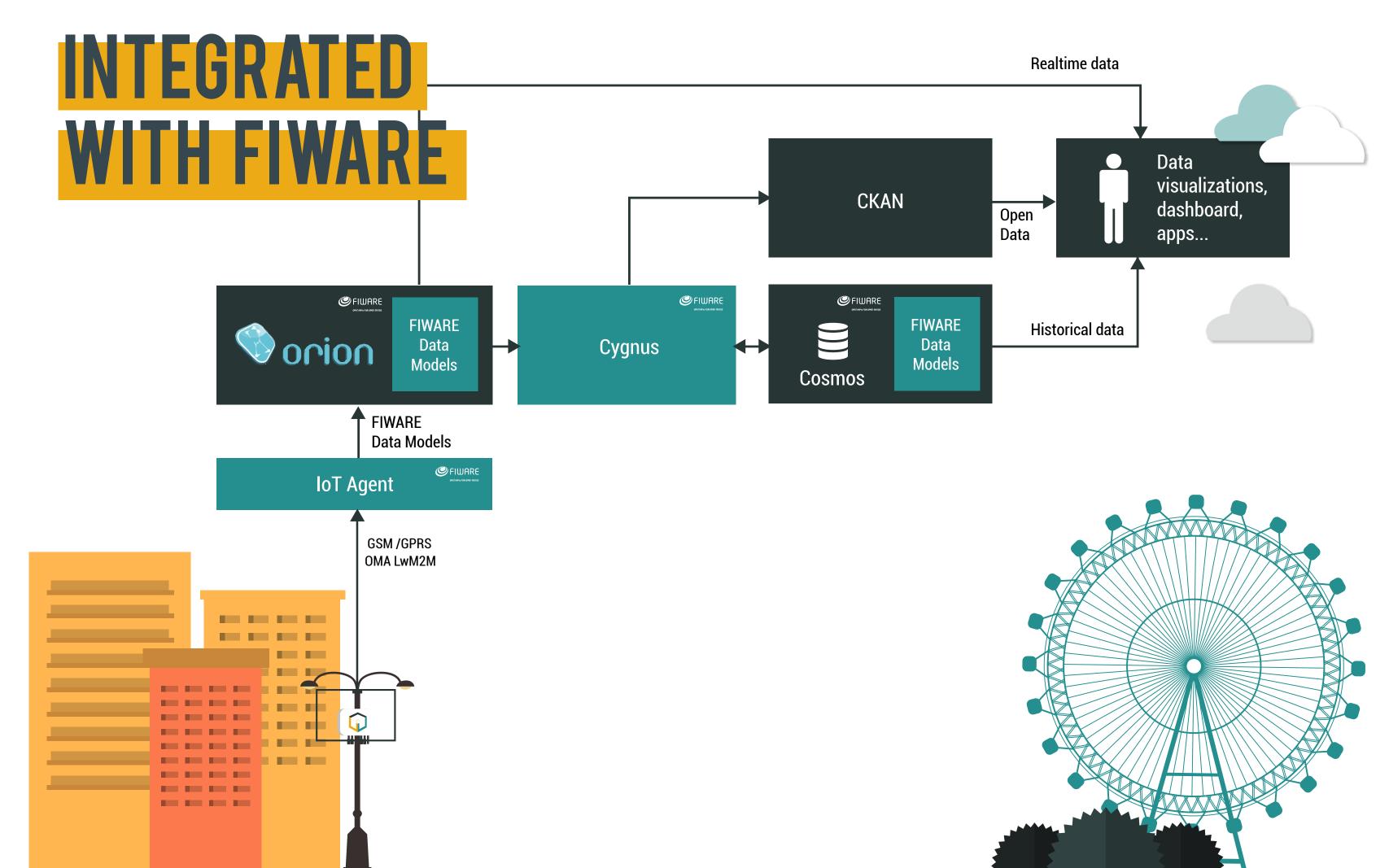
Allowing the deployment on the device of policies which the client (node, device, sensor) can execute and enforce independently under some specific conditions, i.e., if some events happen, then perform some operations.



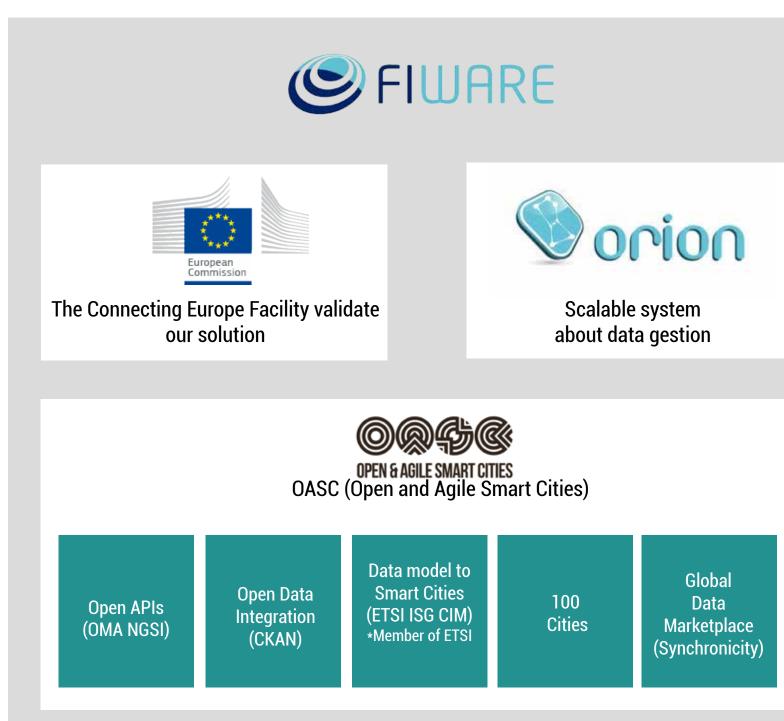




#### **Management Policy:**



### **OPEN STANDARDS& OPEN PLATFORMS**



- Multiplataform connection
- IoT devices and M2M with scalable integration

- Devices with remote control
- Software and firm actualization
- Efficience maintenance
- FIWARE & OneM2M integration



- Integration and interworking with Continua Alliance, OMA, Alljoyn, etc.

- Data models and Semantic (W3C SSN XG - W3C Web of Things)



