HOPU
(AIR QUALITY)
Human Driven Smart & Sustainable Cities
Dr. Antonio Jara, CEO
hopu
Smart Cities

Need: Evidences

***Penalties** for not satisfying regulations about climate change*

LUNES 04.11.2019

Diario de León

«Tendríamos que tener ejecutado el 30% del Edusi y apenas hemos llegado al 8%»

REDACCIÓN DIARIODELEÓN 17/09/19

La Unión Europea ha trasladado al Ayuntamiento su preocupación por el hecho de que el plan de Estrategia de Desarrollo Urbano y Sostenible haya ejecutado tan solo ocho millones de euros de su presupuesto «cuando a estas alturas debería de llevar ya 30 millones. Hay mucha preocupación entre los técnicos porque no se ha ejecutado nada apenas, no hay manera de agilizar los trámites y tendríamos que tener ejecutado y a un 30% de los 28 millones de euros del proyecto y apenas llegamos a ocho».

Edusi tendría que estar finalizado en 2023. Entre las iniciativas que se contemplan para impulsarlo figura un nuevo plan de alquiler de bicicletas para niños: «Hasta ahora no había un proyecto serio, solamente una serie de ocurrencias».

Lo más Visto

Otro accidente en el puente del río

Un espectador de Oviedo sufre un

CatalanNews

Society

EU to sue Spain over failure to curb air pollution in Barcelona and Madrid

After a final warning earlier in July, European Commission decides to report Spanis authorities to European Court of Justice

24 July 2019 05:33 PM by ACN | Brussels

SHARE

Brussels will take the Spanish authorities to the European Court of Justice (ECJ) on Thursday, for **not respecting air pollution limits** in Barcelona and Madrid.

Reported by El País newspaper and confirmed by the Catalan News Agency, the EU has de take legal action after issuing a final warning earlier this month.

The European Commission sent the warning on July 9, reminding the Spanish authorities measures taken to **curb air pollution** in the cities is not sufficient.

Spain has been in the EU's sights for concerns over air pollution in the cities since 2015. In Brussels threatened Spain with **legal action** if it did not take action.

However last year, Spain avoided the courts when the EU held back and said the measure adopted **"seemed adequate"** for tackling the air quality problem.

At the same time, Brussels did go ahead and report Germany, France, Hungary, Italy, the Romania to the high court in Luxembourg.

THE IRISH TIMES

NEWS SPORT BUSINESS OPINION LIFE & STYLE CULTURE

Environment › Climate Change | Heritage & Habitat

Air pollution at harmful levels in nine out of ten European cities

Government has yet to produce National Clean Air Strategy

Kevin O'Sullivan Environment & Science Editor

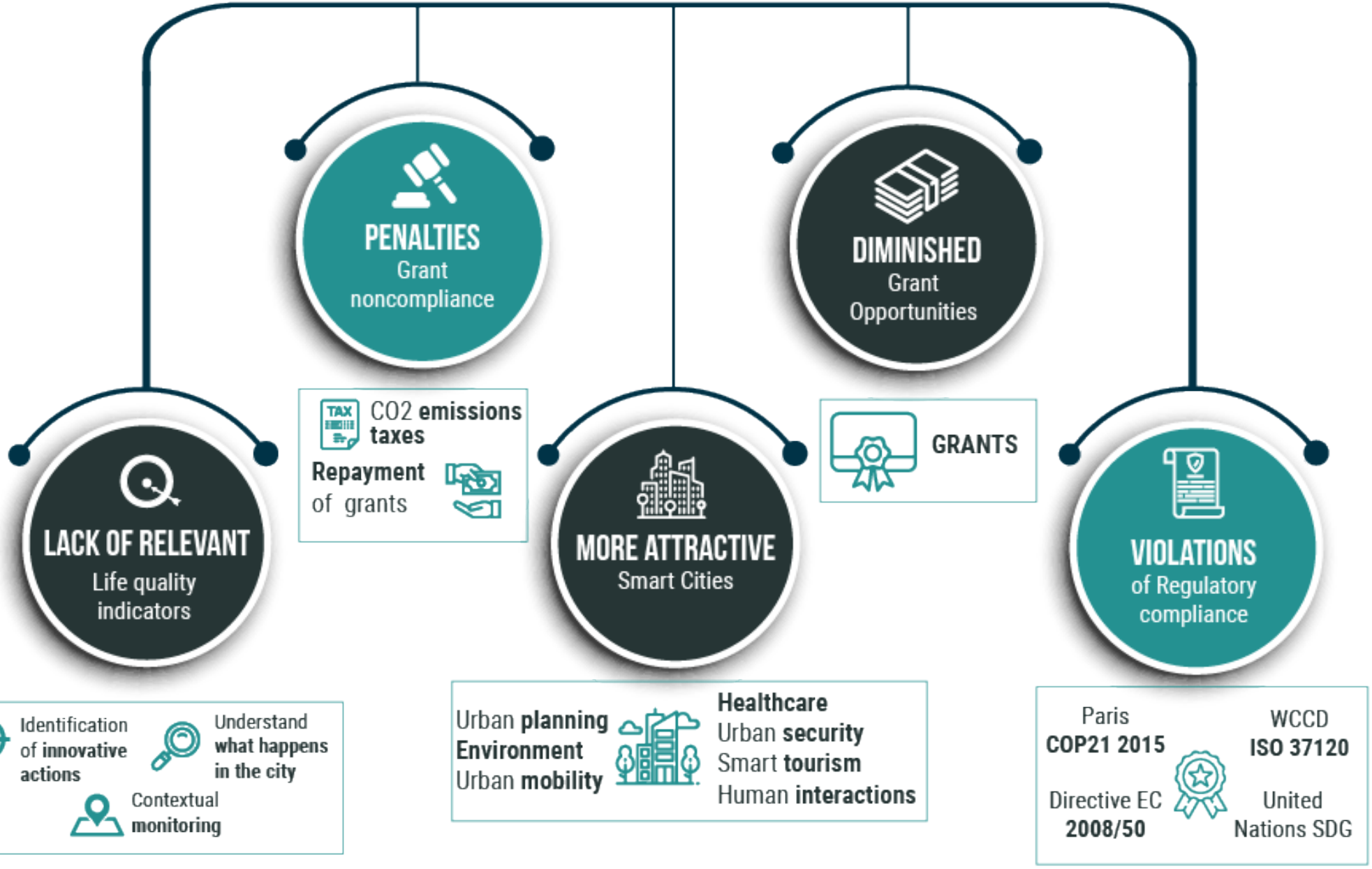
This article is more than 1 year old

UK taken to Europe's highest court over air pollution

European court of justice can impose multimillion euro fines if the UK and five other countries do not address the problem

We should have executed 30% of funds and we have barely reached 8%

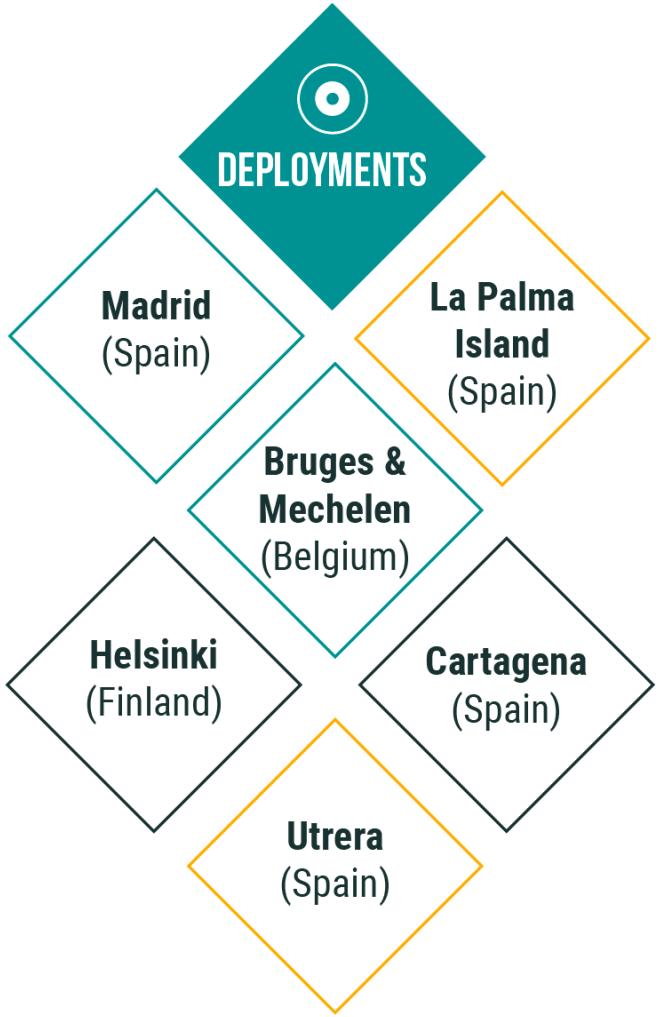
Need: City Managers challenges



Solution proposed

- Major spectrum of **indicators**
- Forecasting and modelling of **action plans**
- Evidence-based **experiences**

Develop decisions to make shorter the assisting decisions-making

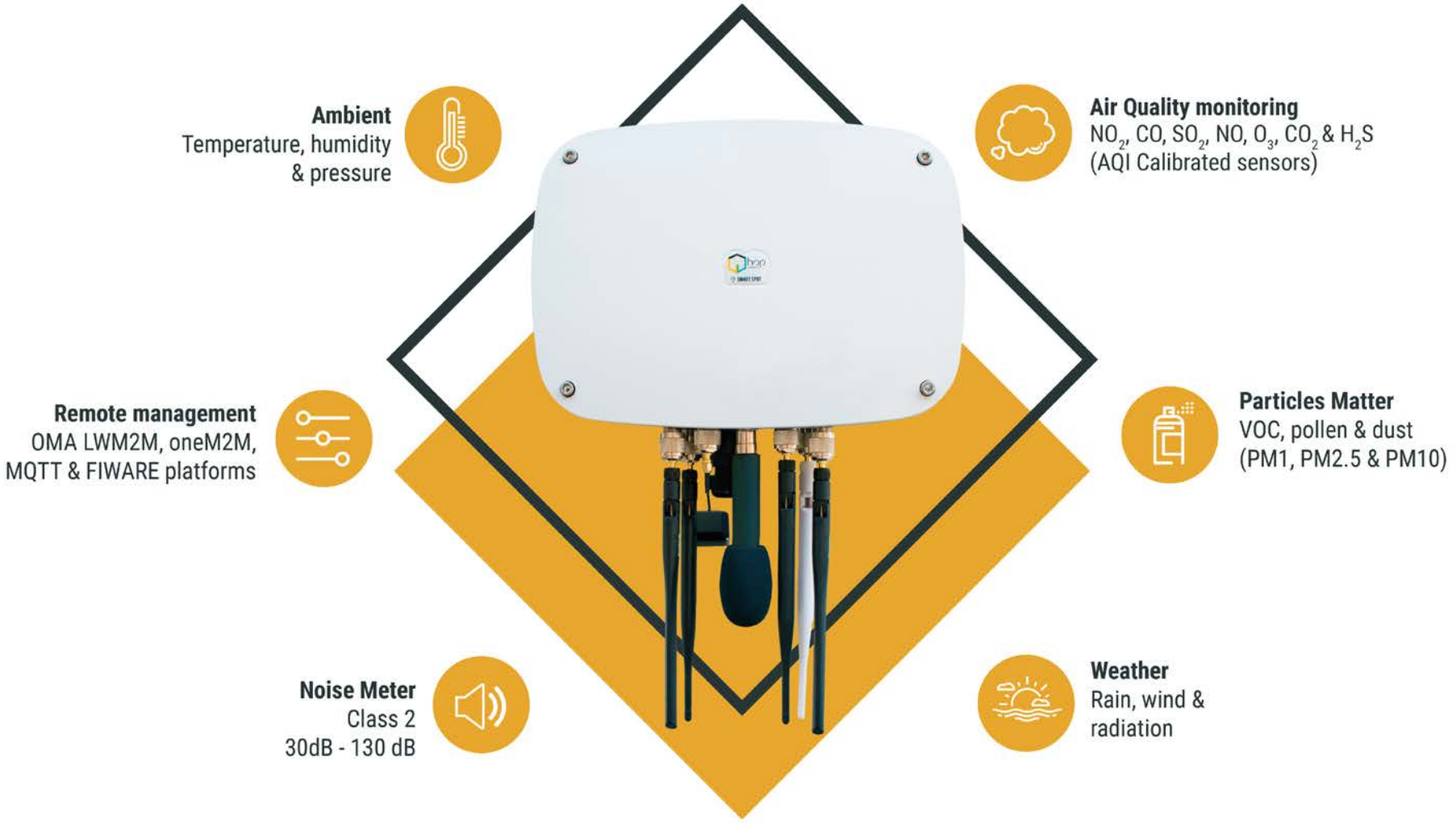


SMART SPOT

HARDWARE

Advanced Environmental assessment

- Volume of data:
  - ✓ Each sensor generates 6 to 8MB/Day (a system > 6 sensors)
  - ✓ A city deployment = 16 systems generating 3 to 3,5 GB/Month
  - ✓ 20 different parameters are monitored per device
- Over **250** units deployed and pre-ordered
- Current version: SS v1.6
- Real-time data (Stream) & Pub/Sub (Broker)



DASHBOARD TOOL

OPEN TOOL FOR DATA VALORIZATION

"Open source software for time series analytics & real time data monitoring integrating different data sources and enabling to obtain KPIs/Indicators and to support informed decision making"

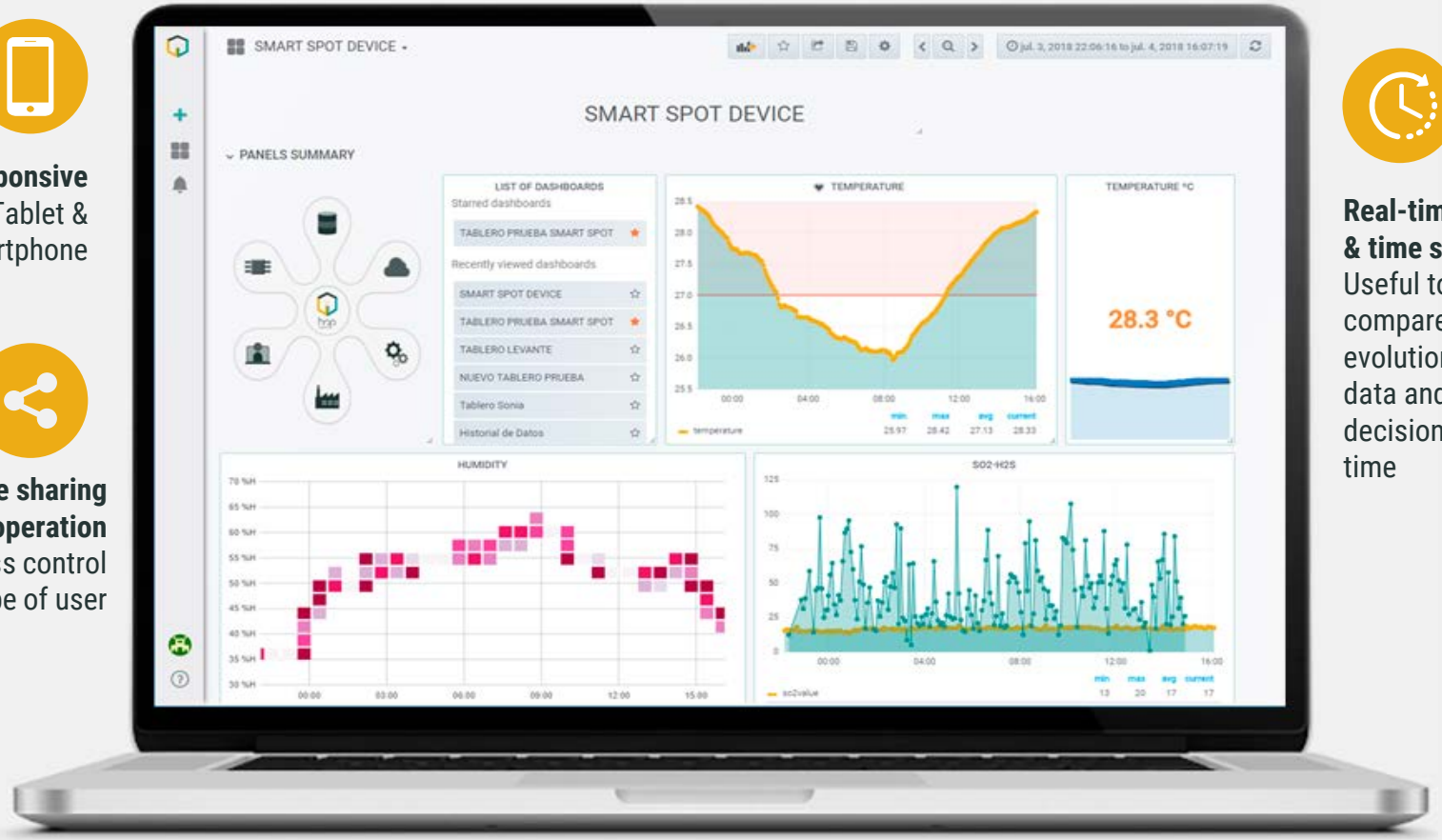
Federation
Different data sources analysed in one tool

Intuitive
Dashboards & interactive panels

Ad-hoc solutions
Multiple plugins available (HOPU's plugins for environment)

Responsive
PC, Tablet & Smartphone

Secure sharing & cooperation
Access control by type of user



Real-time data & time series
Useful to compare the evolution of data and make decisions in real time

Grafana

https://visualizer.hopu.eu

LIVE MAPS

One screen to see the full city status

"Sensors datasets visualization in real time for a general overview of city status to monitor general status"

SYNCHRONICITY

Updated maps (GIS)
Google Maps & National Institute of Geography Maps

User experience
Intuitive & customizable background and depth of information displayed on the dashboard

Location
Device deployed

Real time data & time series
20 different values monitored

Data interpretation
Added value information & recommendations

https://live.hopu.eu

ROADMAP

Real-time data Contextual environmental monitoring

AI & ML powered tools for Urban authorities

Urban sustainability consultancy

Regulatory compilance

Unique Life Quality Indicators & Forecasting

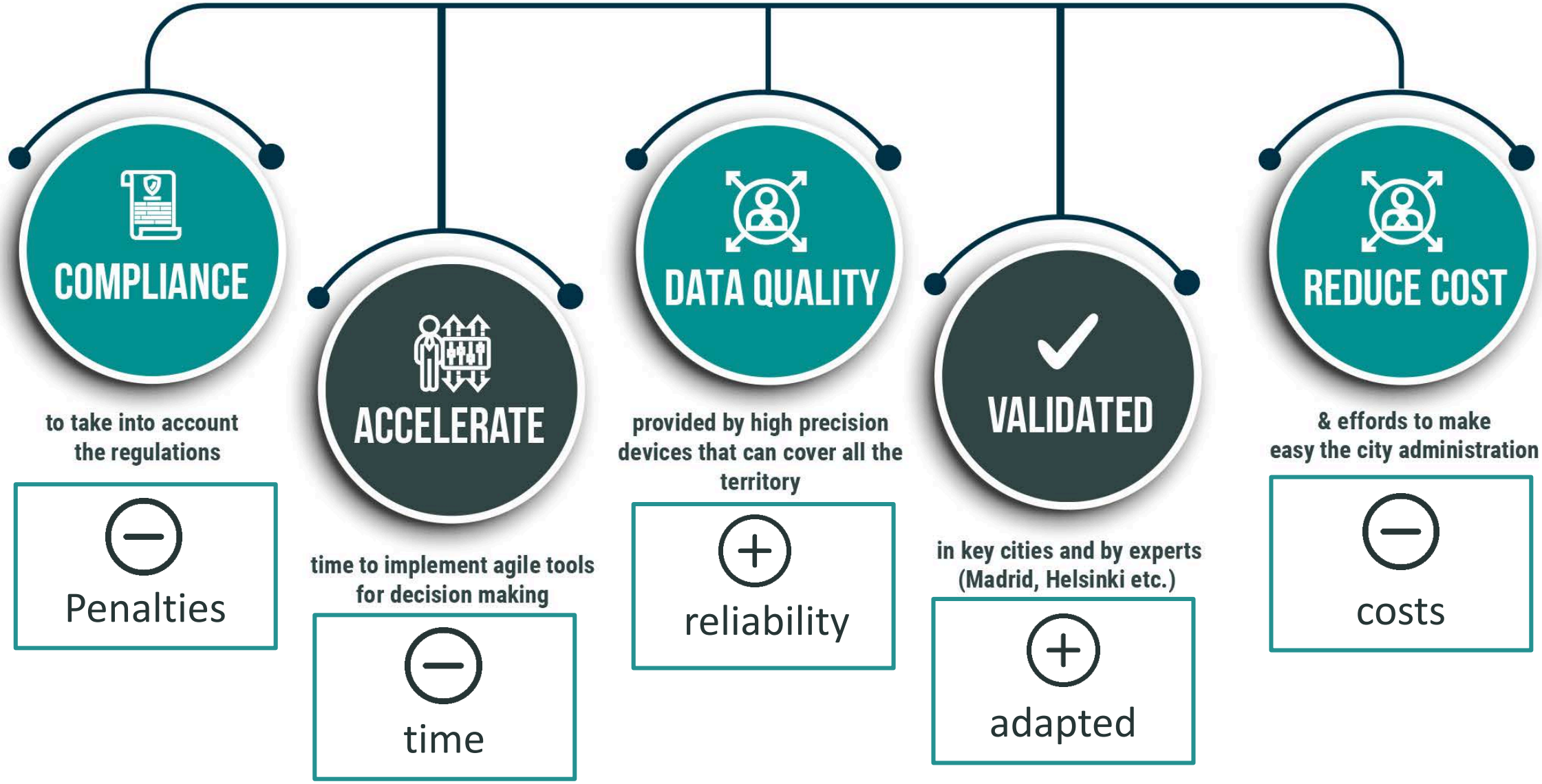
Increase the chance of success in public funding opportunities

Boost successful Smart City projects

SMART & SUSTAINABLE CITIES

Why FIWARE and sharing data models / experiences?

Develop decisions to make shorter the assisting decisions-making



Service example
POLLENS

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Service example
AQI 2.0

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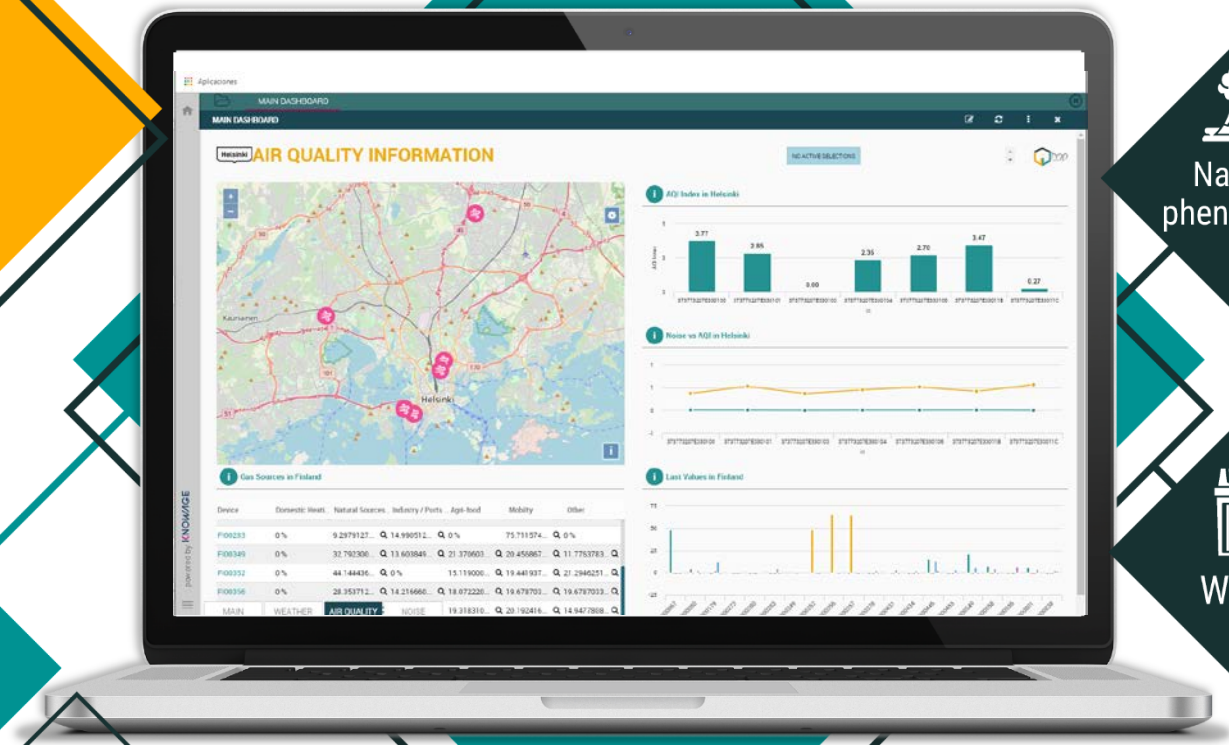
Service example
POLLUTION SOURCES

Pollution sources



Fuel combustion

Agriculture

Natural phenomena

Waste

Traffic

Industry

DEPLOYMENTS

Helsinki (Finland)

Cartagena (Spain)

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THANK YOU!

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