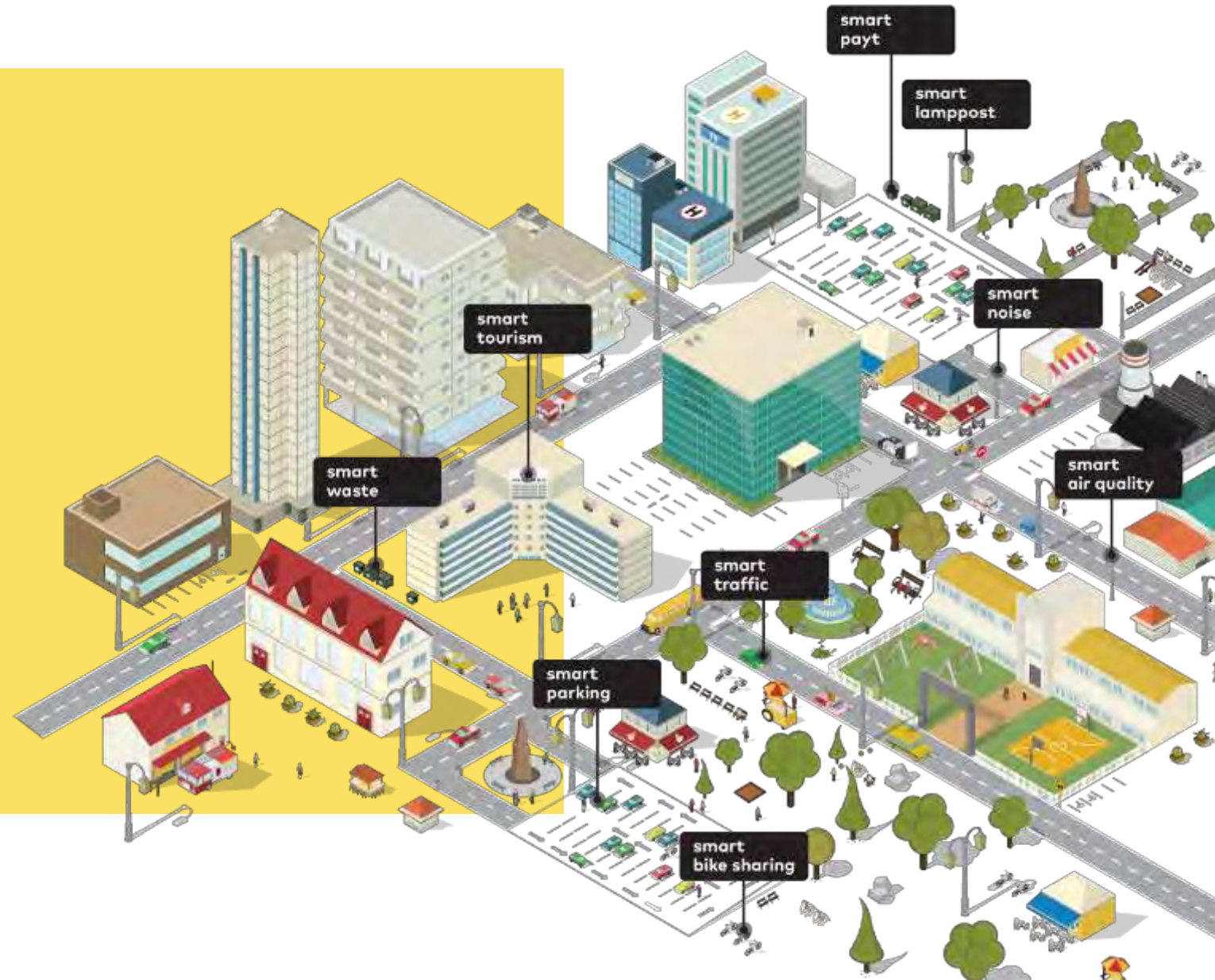


ubiwhere

Suiting the future of Smart Cities



Can you imagine your
city as a single,
integrated system?



ubiwhere

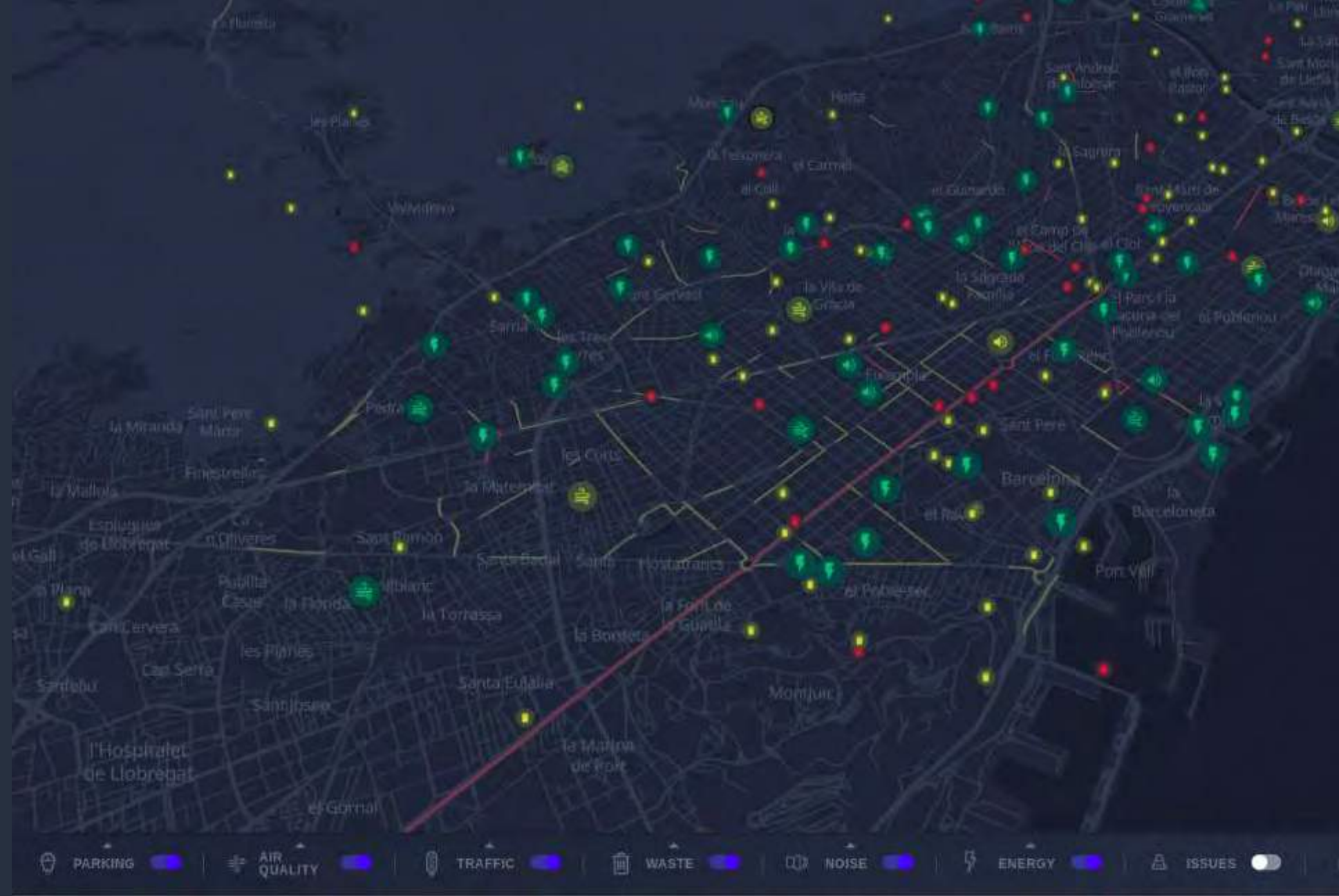
Meet the Urban Platform.



ubiwhere

Real-time status of the city

- + information from several
verticals in a single map
- + general overview of short-
term historical data
- + capability to take decisions
in real-time



Occurrences
Management

+ based on custom
workflows, in order to
make the data analysis
easier and efficient

urban platform

Live Map

Live Videos

Occurrences

Analytics

City Intelligence

Filters

Filter by keyword or id

Category

Status

Event Type

Source

Severity level

Occurrences and incidents

135 ONGOING EVENTS

Category

Location

Status

Personas

Location

Last modified

#18465

Flooding

Carrer de Pedrell, la Font d'en Fargues, Barcelona, BCN, España

Triggered Assets

John Doe

20/11/2019

20/11/2019

Triggered Assets

Assigned

Calculated Route

Received

Get direct link (16.44)

Calculate a route (16.44)

Estimated time of arrival: 7 minutes

Update

Cancel

#18464

Trabajos de construcción.

60, Carrer de Sant Salvador, la Vila de Gràcia, Gràcia, Barcelona, BCN, CAT, 08024, España

Received

-

20/11/2019

20/11/2019

#18463

Obras.

13, Carrer Castanyes, el Poblenou, Sant Martí, Barcelona, BCN, CAT, 08005, España

Received

-

20/11/2019

20/11/2019

#18462

Obras.

Amistat Beach Hostel, Carrer de l'Amistat, el Poblenou, Sant Martí, Barcelona, BCN, CAT, 08020, España

Received

-

20/11/2019

20/11/2019

UBP Filter

Day of the Week

Select [Day of the Week]

Hour of the Day

Select [Hour of the Day]

Average Noise Level

65.35

Maximum Noise Level Measured

77

Number of Noise Sensors

10

Average AQI

30.23

Maximum AQI Measured

167

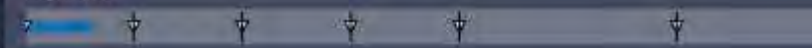
Number of AQI Sensors

98

Noise Pollution Levels



AQI Level



Noise Level Per Hour Per Week Day



AQI Per Hour of Week Day



Noise Level Histogram



AQI Levels histogram



KPIs Analysis

+ dynamic, contextual insights about the city ecosystem to foster smooth operations.

City Indicators



Economy



Education



Energy



Environment



Finance



Fire and
Emergency
Response



Governance



Health



Safety



Shelter



Solid Waste



Telecommunica-
tion and
Innovation



Transportation



Urban Planning



Wastewater

20 $\mu\text{g}/\text{m}^3$

Fine Particulate Matter (PM2.5)
concentration

9 $\mu\text{g}/\text{m}^3$

Particulate Matter (PM10)
concentration

2 t/capita

Greenhouse gas emissions measured
in tonnes per capita

51 $\mu\text{g}/\text{m}^3$

NO₂ (nitrogen dioxide) concentration

4 $\mu\text{g}/\text{m}^3$

SO₂ (sulphur dioxide) concentration

29 $\mu\text{g}/\text{m}^3$

O₃ (ozone) concentration

52 %

Noise pollution

Sustainability

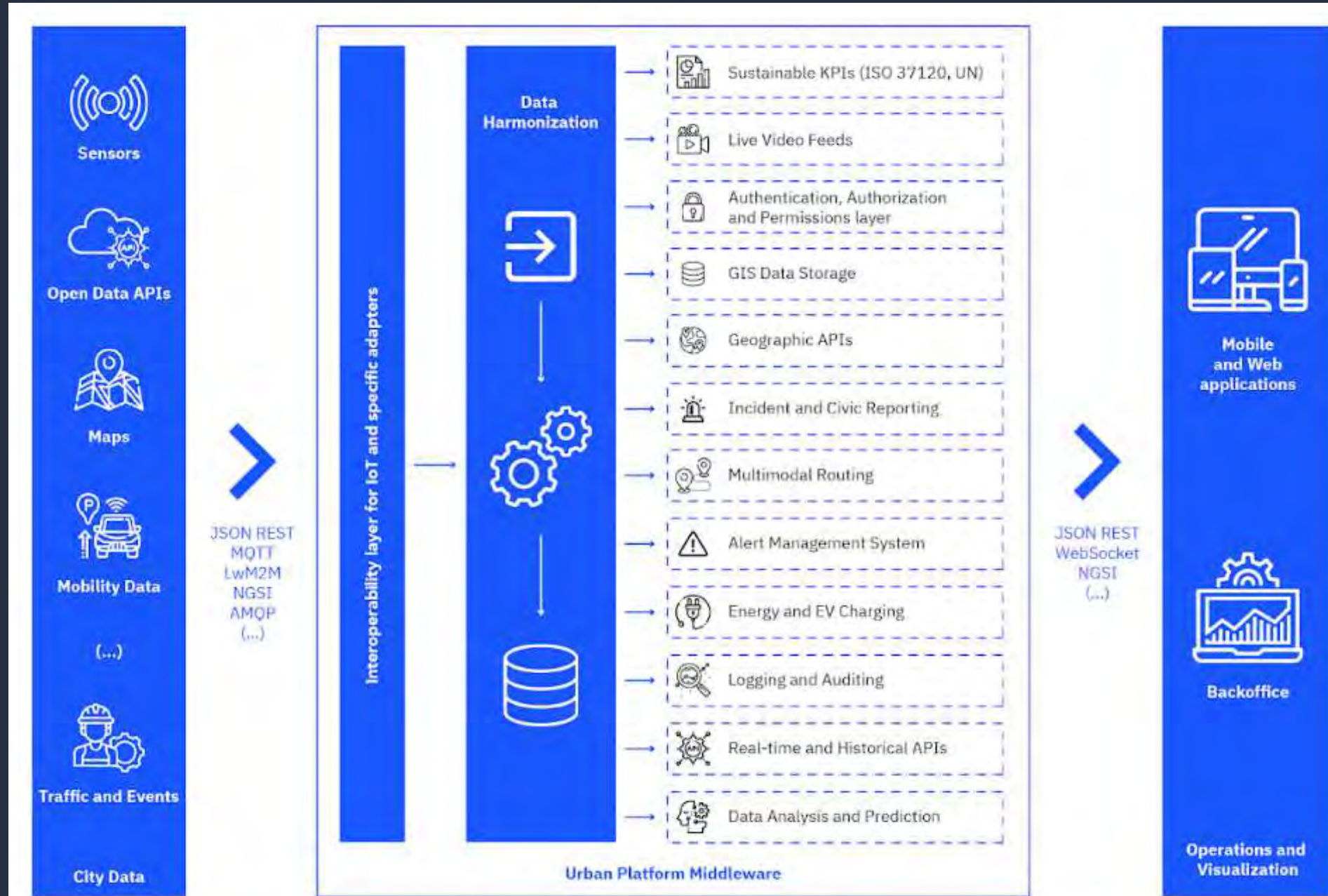
+ Well-defined metrics
to help cities benchmark
their progress towards
the Sustainable
Development Goals.

Architecture

+ Modular

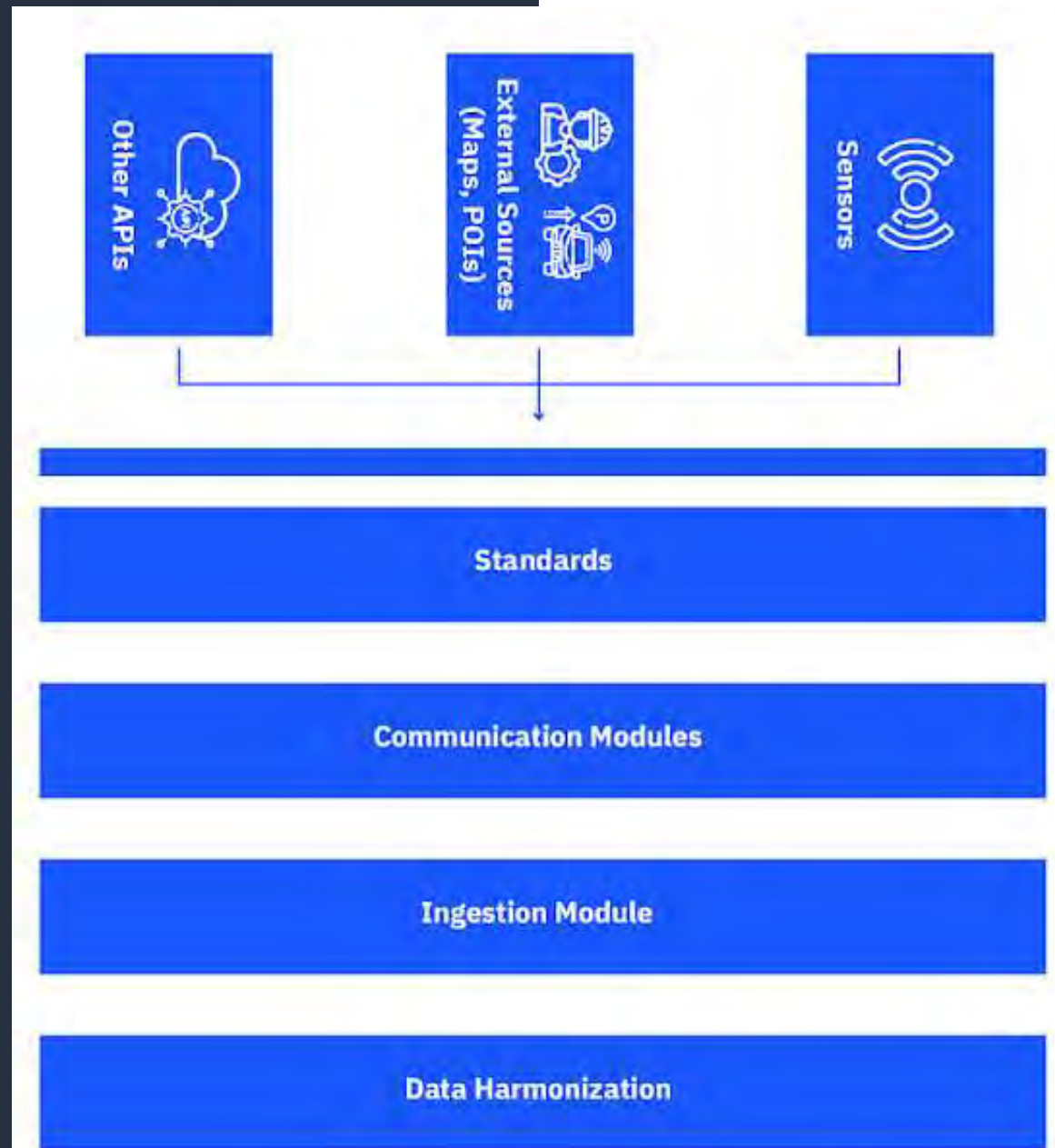
+ Makes data available using different (exposable) APIs

+ Easy to build new client applications



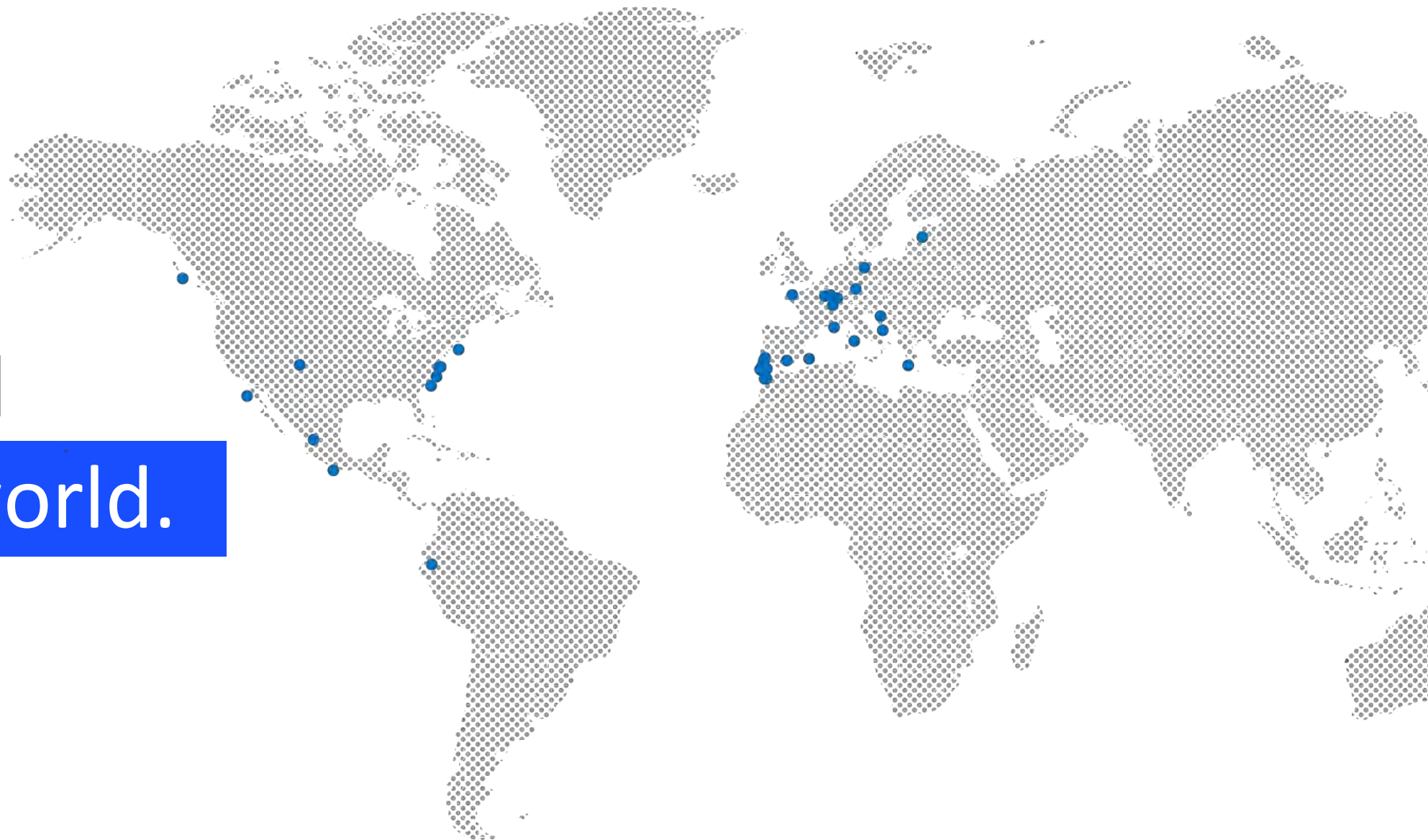
Ensuring interoperability through:

- + A modular architecture, with easily adaptable ingestion modules
- + Support for different communication protocols such as MQTT, AMQP, etc.
- + Using open protocols and standards such as NGSI
- + Data harmonization using standard data models such as the ones defined by FIWARE



ubiwhere

From
Portugal
to the world.



ubiwhere

Porto
Portugal



IoT deployments by Ubiwhere
(air quality, noise, weather) plus
open data from Synchronicity
(project funded by the EU) –
traffic flows, points of interest,
roadworks

ubiwhere

Évora
Portugal



Smart buildings, lampposts, EV
chargers, energy efficiency,
noise and air quality – towards a
sustainable city protected by
UNESCO

ubiwhere

Guimarães
Portugal



Real-time traffic flow
observations, traffic analysis,
real-time parking occupancy and
forecast, EV chargers status and
power consumption,
demographic indicators for
sustainability and quality of life,
citizen feedback about incidents

ubiwhere

SELECT4Cities

Antwerp
Helsinki
Copenhagen



Pre-Commercial Procurement with the cities of Antwerp (BE), Helsinki (FI) and Copenhagen (DK) – open-source platform handling data collection, processing, air quality measurements, weather observations, waste containers filling levels, traffic flow observations and parking occupancy, energy consumption, security and public lighting.

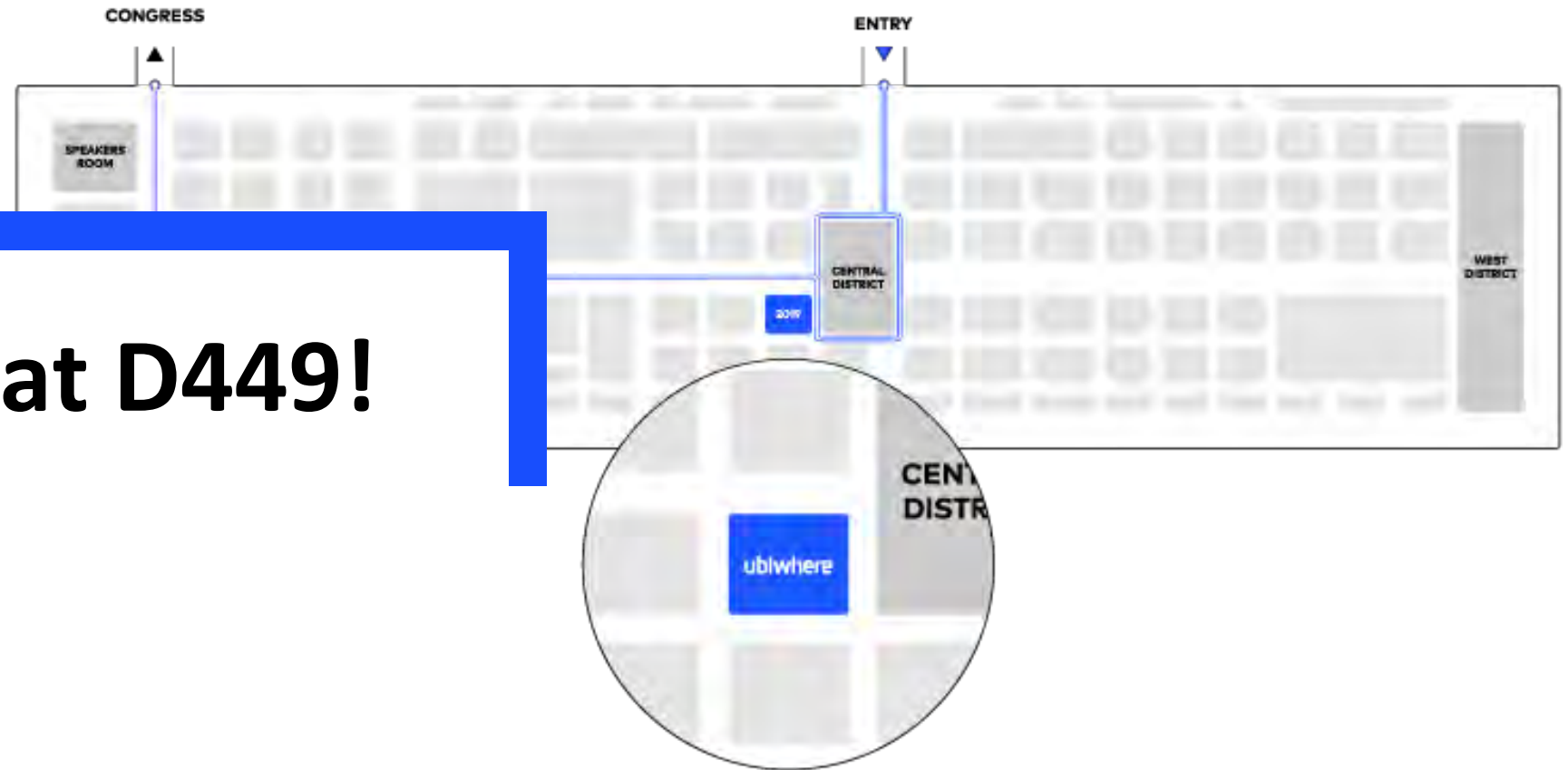
SELECT
for Cities

Visit us at D449!

Ricardo Vitorino

Smart Cities R&I Manager

rvitorino@ubiwhere.com



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