



A sustainable, digital and connected future

IoT, Big Data and Artificial Intelligence

With the common goal of making life easier for citizens and tourists and to bring us closer to a better and more sustainable future, the companies that form **Grupo Gimeno** develop their activity in 11 different areas of activity.

More than **150** years of experience

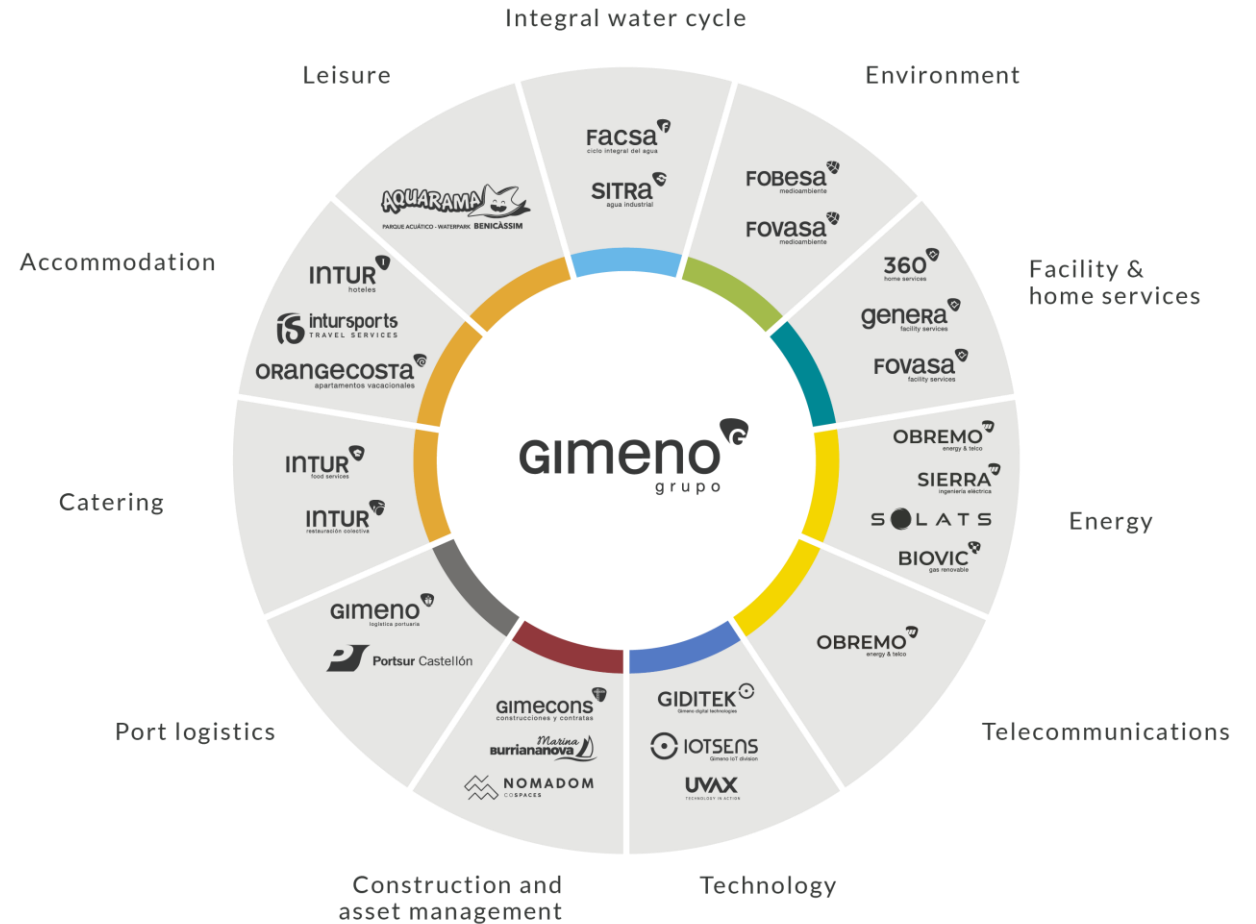
More than **90** companies

More than **7.000** staff members

More than **700M** euros in turnover

More than **4M** people helped

More than **30** customer service points



*Global solutions
for the citizen*

+ THAN
30
YEARS OF
EXPERIENCE

+ THAN
100
PEOPLE IN
THE TEAM

+ THAN
300K
CONNECTED
DEVICES

GIDITEK 
Gimeno digital technologies

GIDITEK is the company responsible for boosting technology within the Group, supporting its digitization, and generating and developing new businesses rooted in the digital revolution.

 **IOTSENS**
Gimeno IoT division

At **IoTSENS** we offer society the necessary tools to connect the physical world with the digital world through Internet of Things, Big Data and Artificial Intelligence technologies with the aim of being more efficient, digital and sustainable

Hardware IoTsens



Own Production

Design and
production of devices
according to
customer needs



Third party Integrations

Integration of
devices from other
manufacturers.

IoTsens Software Platform



Geolocation
of assets



Advanced analytics
and AI



Capability to integrate
with third-party systems



Global dashboard for
KPIs



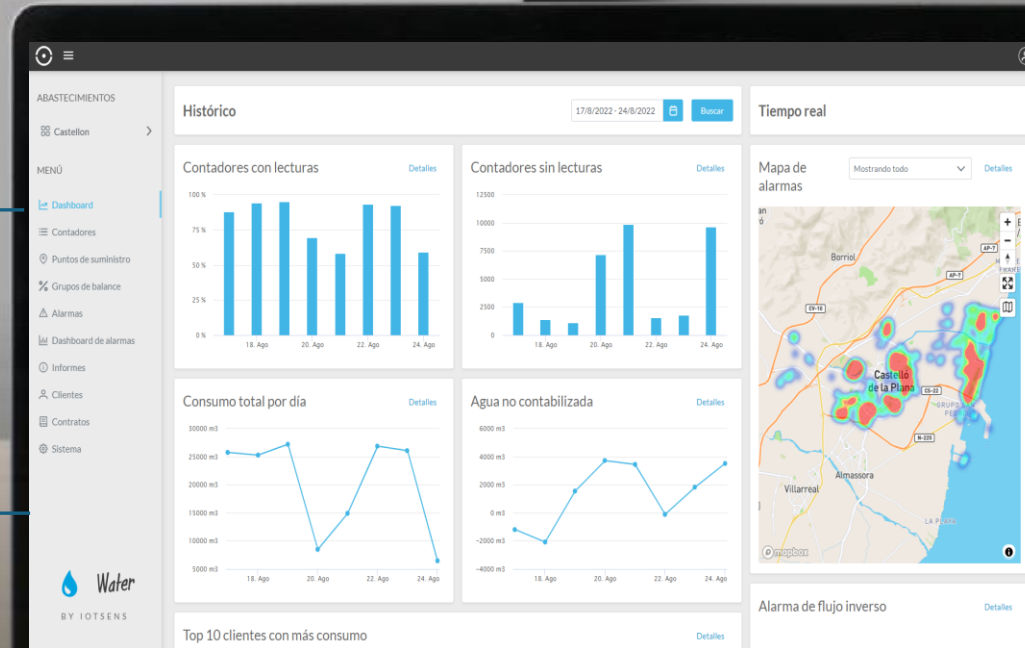
Scalability and
performance



Advanced alarm
management



User-configurable



Solutions



CITY



WATER



BUILDING

Cloud Platform

BIG DATA

Data analysis
Custom reports
Alarm generation

AI

Weather prediction
Demand forecasting
Resource optimization

SIMULATION

Digital Models
Representations
Predictions

Communications

LORA

WIFI

ETHERNET

3G/4G/5G

NBIOT

Devices





Water

Digitalization of the
integral water cycle



Digital Water Cycle

Collection

Water collection from different sources



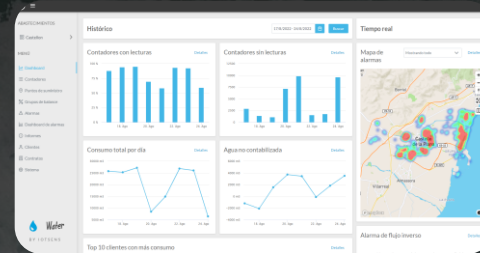
- SCADA integration
- Specific sensors
- Wells, pumping stations & tanks
- Water quality monitoring

xylem

MEJORAS
GRUPO

Distribution

Network distribution
Smart Water Metering



- A.M.R. (Automatic Meter Reading)
- Water balance (sector, apartment)
- Water leaks (N.R.W.)
- Pressure monitoring

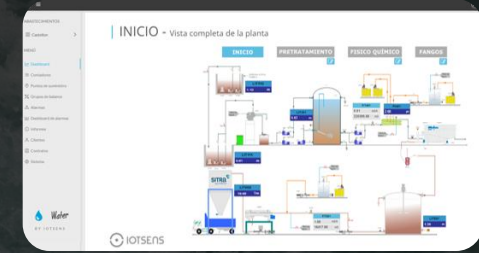
Itrón

Honeywell

DIEHL

Sewage

Network sewage
Sewage plants
Reclaimed water



- SCADAS integration
- Water relief points
- Flow rates, sewars and main collectors
- Waste water treatment plant

MICROCOM

LACROIX



Big Data
Artificial
Intelligence



Geographic
information
System



DASHBOARD
K.P.I.'s



Distribution Networks and Water Measurement

Virtual Sensor

Measurements from other sensors
System knowledge (Mathematical Model)
Data simulation

Water Quality

ORP
PH
Conductivity
Turbidity

Meteo Station

Temperature & Humidity
Wind speed and direction
Pluviometry
Barometric pressure

Deposit Regulation

Fill level
Stored M^3
Service Estimation

Sector Water Meter

Water balances
Minimum and night-time consumption
Leak detection

Pressure Probe

Mains pressure
Durability of pipes
Quality of service
Leak Detection

Individual Water Meter

Water balances
Minimum and night-time consumption
Leak, fraud and incident detection

Energy Measurement

Adjust Rates
Cost reduction
Process Optimization
Consumption forecast

Irrigation in Parks, Gardens and Crops

Irrigation Water Meter

- Minimum consumption
- Night-time consumption
- Leak Detection
- Failure detection

Soil Monitoring

- Soil moisture
- Soil Temperature

Meteo Station

- Temperature & Humidity
- Wind speed and direction
- Pluviometry
- Barometric pressure

Valve Control

- Automatic opening and closing of valves
- Management of watering periods

Electrovalves

- Opening and closing mechanism

Sewer Networks

Meteo Station

Temperature & Humidity
Wind speed and direction
Pluviometry
Barometric pressure

Water Quality

ORP
PH
Conductivity
Turbidity

Industrial Walkway

Plant & Pumping Monitoring
Data acquisition from PLCs and SCADAS

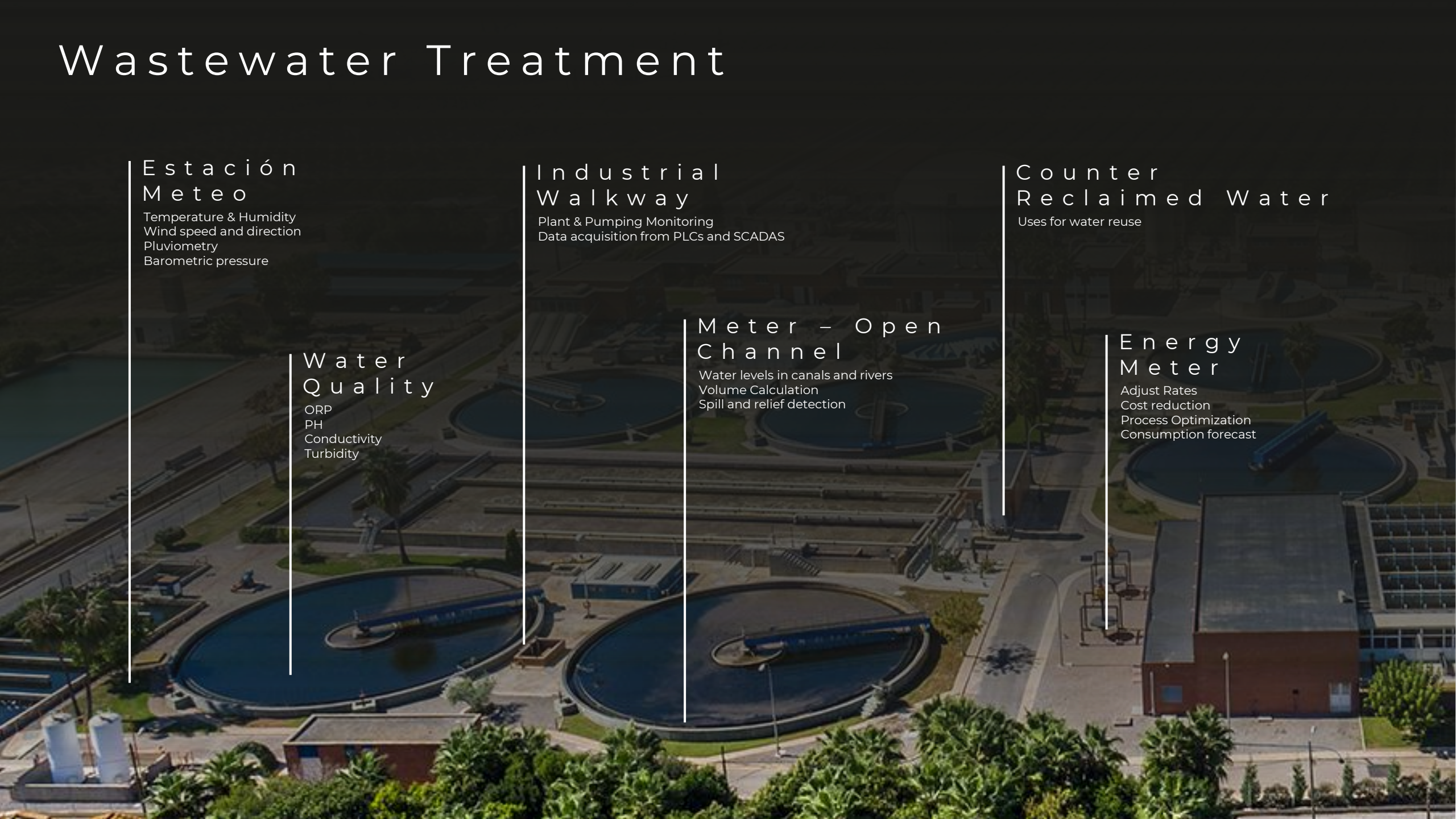
Storm Tank

Filled level
m3 stored
Protection of flood prone areas

Meter – Open Channel

Water levels in canals and rivers
Volume Calculation
Spill and relief detection

Wastewater Treatment



Estación Meteo

Temperature & Humidity
Wind speed and direction
Pluviometry
Barometric pressure

Water Quality

ORP
PH
Conductivity
Turbidity

Industrial Walkway

Plant & Pumping Monitoring
Data acquisition from PLCs and SCADAS

Meter – Open Channel

Water levels in canals and rivers
Volume Calculation
Spill and relief detection

Counter Reclaimed Water

Uses for water reuse

Energy Meter

Adjust Rates
Cost reduction
Process Optimization
Consumption forecast

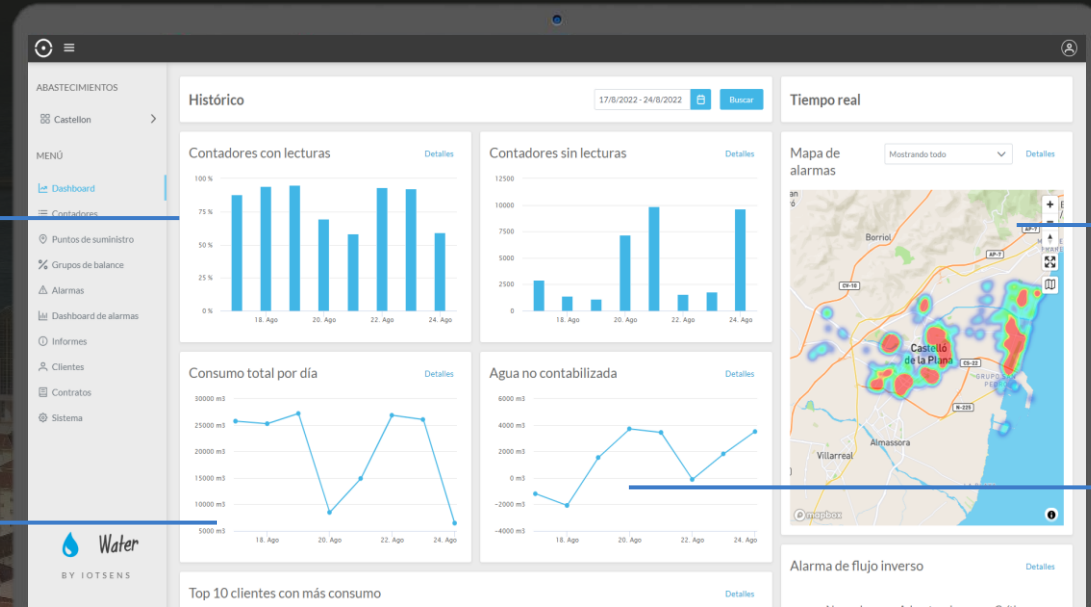
Software Water

Graphics

With consumptions,
configurable according
to needs

Alarms

Detection of anomalous
consumption



Heat Maps

Based on the
identification of
consumption patterns

Predictions

Based on the
identification of
consumption patterns

Our Work

+40

Brands/Models
Integrated

+5

Communication and
metrology systems

+1,5M

Daily
Readings
Received



Water

+100k

Deployed
Smart Meters



Building

Increased efficiency, safety and
accessibility of buildings

Building Solutions

Energy Monitoring

Adjust Rates
Cost reduction
Process Optimization
Consumption forecast

Environmental Quality

Indoor Humidity and Temperature
CO2
Gases

Water & Gas Consumption

Balance Sheets
Minimum and night-time consumption
Leak and fault detection
Individual and sectoral measurement

Structural Health

Slope of the building
Crack Monitoring
Vibration Detection

Access Control

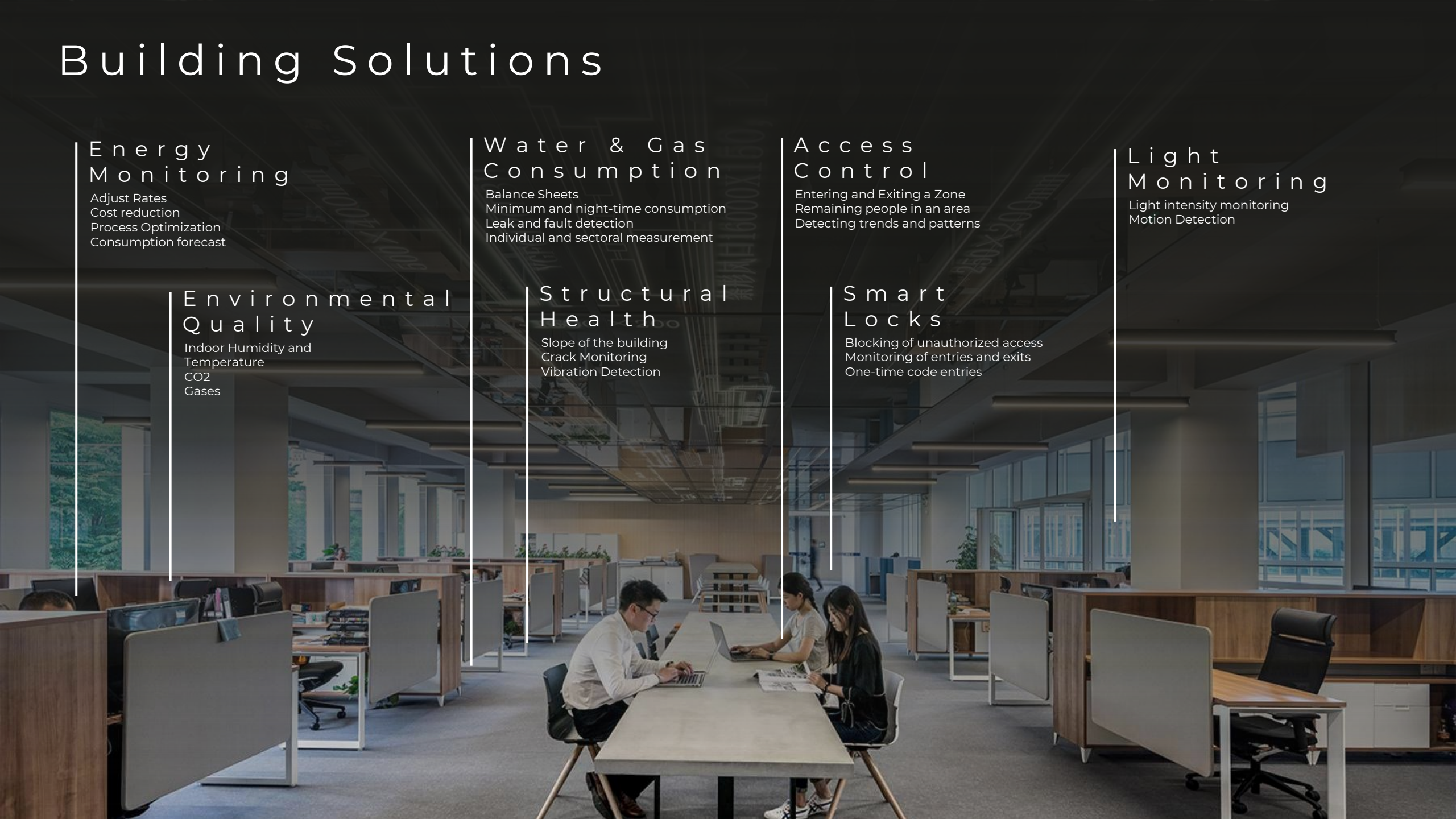
Entering and Exiting a Zone
Remaining people in an area
Detecting trends and patterns

Smart Locks

Blocking of unauthorized access
Monitoring of entries and exits
One-time code entries

Light Monitoring

Light intensity monitoring
Motion Detection



Software Building

Discrimination of energy consumption
By type and area

Alarmas
Detection of anomalous consumption



Predicciones
Based on the identification of consumption patterns

Environmental Variables
Reference values

Nuestro Trabajo

+350

Buildings
converted into
Smart Buildings

+7

Cities
Involved

+1.800

Devices installed
in buildings

+3,5M

Daily Data
Received



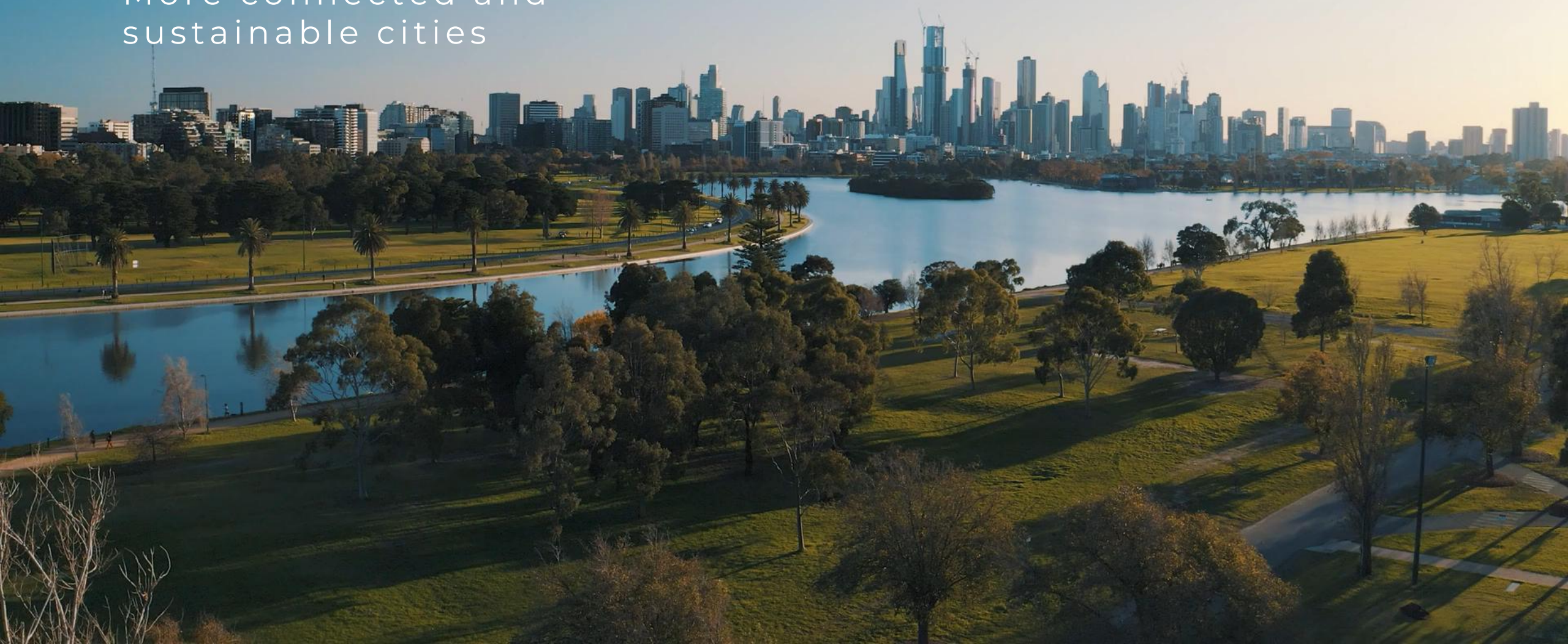
Building

+20

Different systems
installed



More connected and
sustainable cities



City Solutions

Waste Monitoring

Porcentaje de llenado de contenedores
Detección vandalismo por movimiento
Optimización de rutas

Information Panels

Real-time data
Informed Citizens

Air Quality

Particulate matter (PM1, PM2.5 and PM10)
Humidity, Temperature and Atmospheric Pressure
TVOC Index
Gases (NO2, O3, NO, H2S, CO, SO2)

People Counting

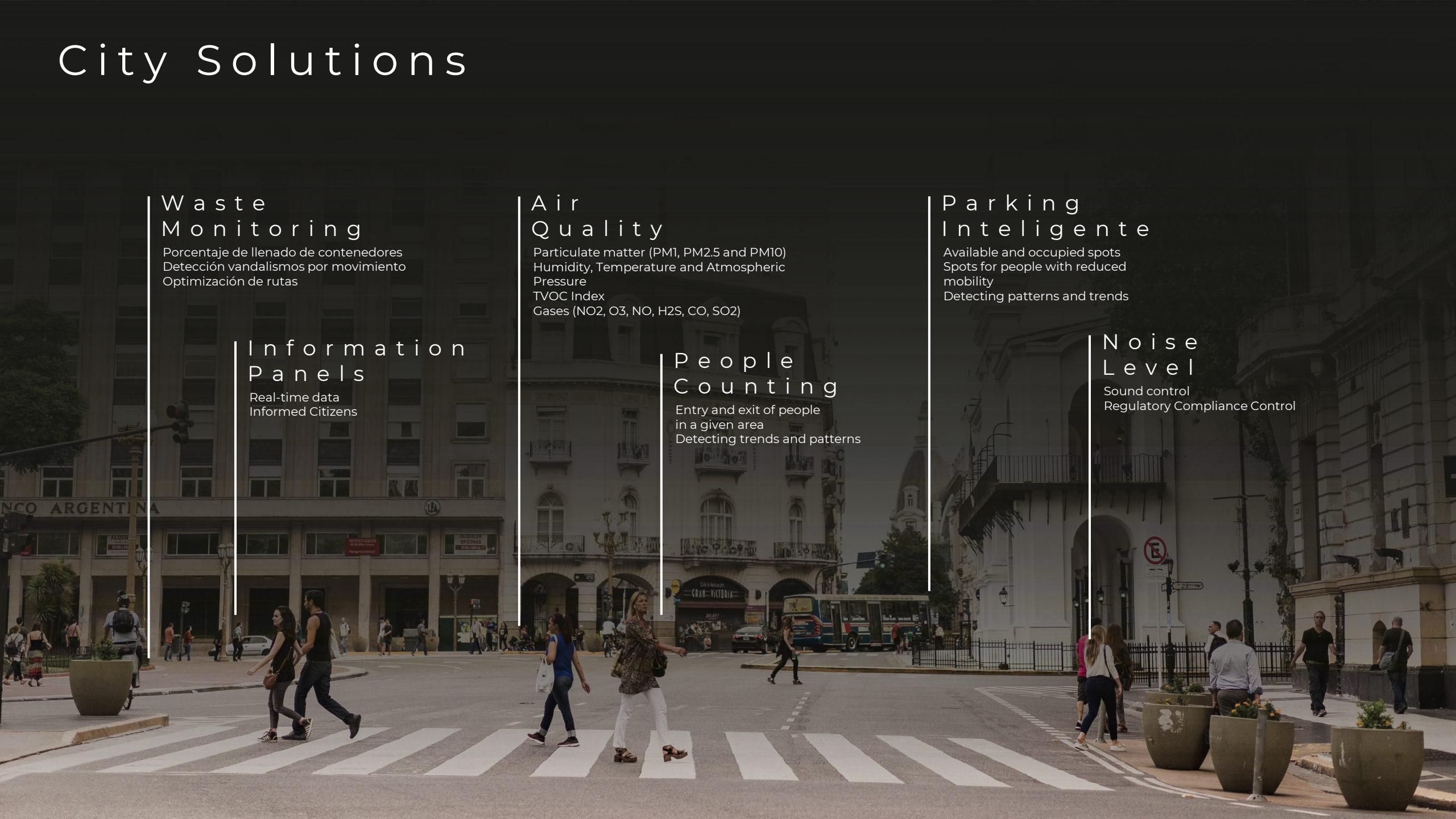
Entry and exit of people in a given area
Detecting trends and patterns

Parking Inteligente

Available and occupied spots
Spots for people with reduced mobility
Detecting patterns and trends

Noise Level

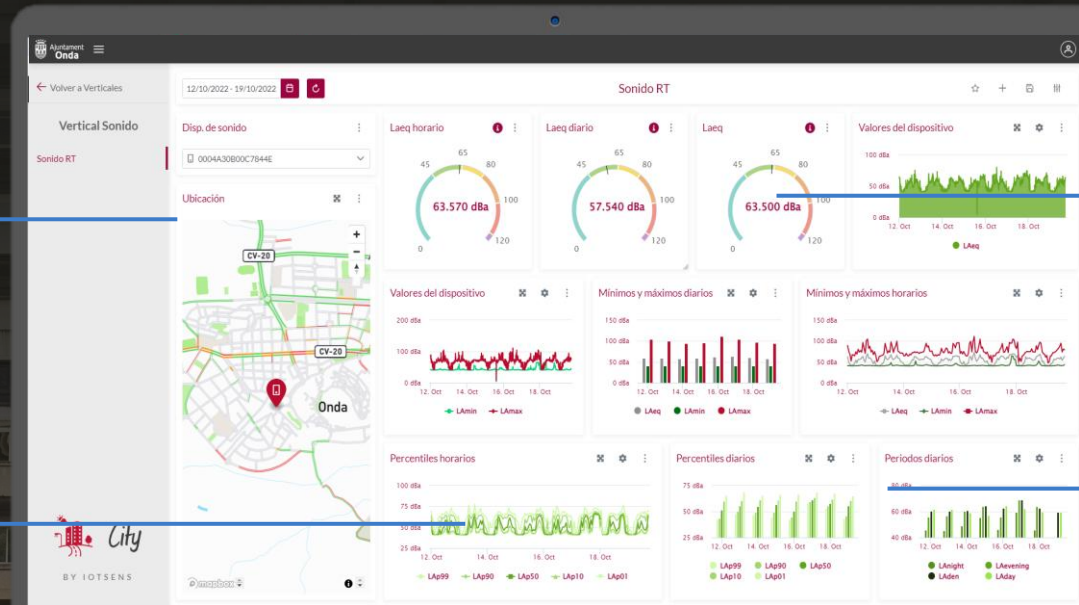
Sound control
Regulatory Compliance Control



Software City

Map
Location & Selection
of the devices

Alarms
Exceeding a certain
pre-configured
threshold



KPIs
Configurable based on
existing needs or
regulations

Graphics
With reference values to
analyze the recorded
variables

Our Work

+30

Cities with City
solution deployed

11/17

Autonomous
communities with
our solutions

+5

Communication
Technologies



City

+10

Different areas of
application

Digital water cycle



250.000

Smart water meters



Water Platform

Dashboard - Maps - Analyses
Events - Forecasts



Communication Networks

NB-IoT - WMBus
LoRaWAN
...



Clients

STC

الاتصالات السعودية
Saudi Telecom Company

شركة المياه الوطنية
National Water Company



مياه العقبة
Aqaba Water



SIEMENS



Water projects

Middle East

JORDAN

35.000

Smart water meters

Custom Hardware
development
Custom Software
App & Citizen Web Portal

QATAR

100

WMBus Gateways

Advance Metering
Infrastructure
System for +400K
Water and Energy
meters

SAUDI ARABIA

2.500

Dataloggers

Water
Optimization



iotsens.com

