



Prime Solutions & Services
Corporate Profile
2022

About Us





About Us

Prime Solutions and Services was established to deliver innovative smart city infrastructure, ICT and IOT solutions. The Group was founded in 1999. The regional expansion was put on fast track in the past few years with offices and dealings in Lebanon, Qatar, Egypt and UAE. Prime Holding relies on a pool of experts delivering high-end tailored solutions answering the markets dynamic demands. We are in the heart of the Smart Cities transformation journey providing turnkey solutions from design to execution leveraging on our wide network of partners from hardware manufacturers, software providers in addition to our in house team capabilities for engineering and delivery.

Our Services

01



Our Services



CONSULTANCY

The choice of devices is critical to the success of any project. We provide expert specification and a well-conceived functional design tailored to the needs of the project and in turn save costly mistakes. We prepare feasibility studies to evaluate the economic viability of a proposed solution. We calculate potential cost reduction and in turn anticipated operating cost.



DESIGN

Every project has a scope to improve performance and reduce cost. We draw on years of hard gained experience to provide the optimal level of cost-effective solution. Our expert staff ensure a tailor-made design taking into consideration different aspects of the projects including coordination with existing 3rd party system providers.



IMPLEMENTATION

We are a turnkey solution provider backed up by the latest technologies to serve your project at best. We provide the local technical expertise backed up with required support for complementary services (civil works, electrical wiring...) to ensure a smooth project installation and configuration.



AFTER SALES SUPPORT

We provide the required back office and onsite resources to maintain the deployed systems (call center, software engineers, onsite technical experts). We hold a stock of spare parts allowing us a fast response and resolution for encountered problems.

Turnkey Solution Provider

02





**Turnkey
Solution
Provider**

Our team of experts core mission is to provide a cost efficient yet reliable design. We collect your requirements and transform them into material selection and layouts.

1

Sensors

After collecting your requirements, we design, supply and install the required sensors.

2

Network Implementation

We are licensed by the communications Regulatory Authority of the State of Qatar to deploy our own IoT network. We provide the required hardware from antennas, repeaters, gateways, poles... to ensure a full coverage of the requested area.

3

Backend Engine

Our backend engine uses advanced algorithms and AI for data processing and analysis. It provides all features and functions required for device management, data aggregation, processing, geomapping, reporting, analytics, business ruling...

4

Operator UI

We customize our web and mobile user interfaces to meet your requirements. We conduct intensive training for your operators so they become familiar with the platform functions and reporting tools.

Design & Engineering

03



Design & Engineering



HARDWARE TO PLATFORM INTEGRATION

Hardware to Platform Integration: we handle the complete integration process to make sure the selected devices are fully integrated with the client's existing IoT platform.



PROTOTYPING AND ASSEMBLY

We offer electronic production services both at serial production and at prototyping level thanks to the experience of the hardware design and development engineering team.



HARDWARE ENGINEERING

Wireless Communication: work on adjusting the devices communication to NB-IoT.
Customize the device (hardware) to fit the project's installation requirements.



PLATFORM TO PLATFORM INTEGRATION

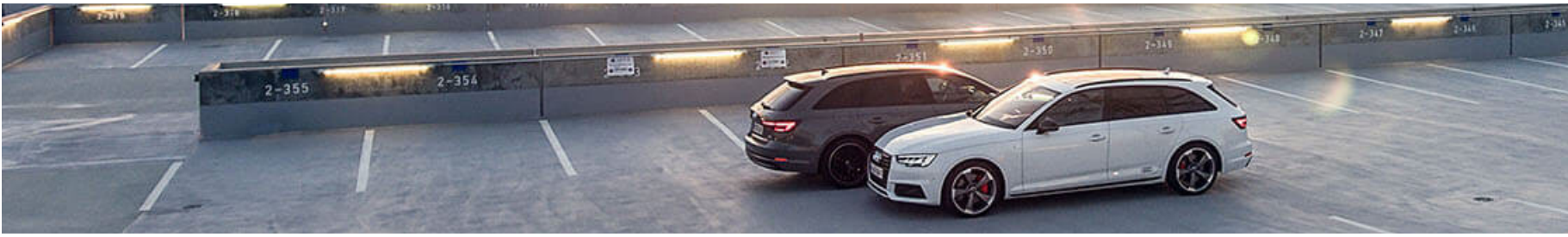
Platform to Platform integration: our software specialists develop the required API to integrate the IoT platform with others used by the clients to ensure operations optimization and efficiency increase.



Solutions

04

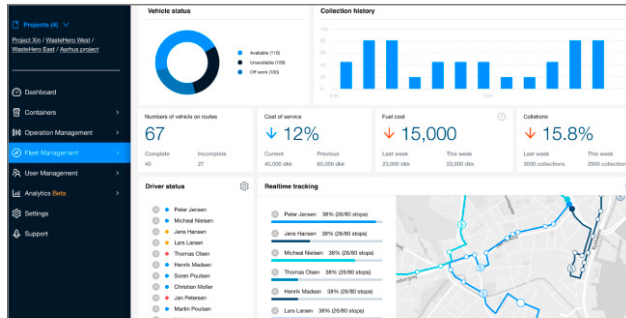




Smart Mobility



Smart City Infrastructure



Smart Waste Management



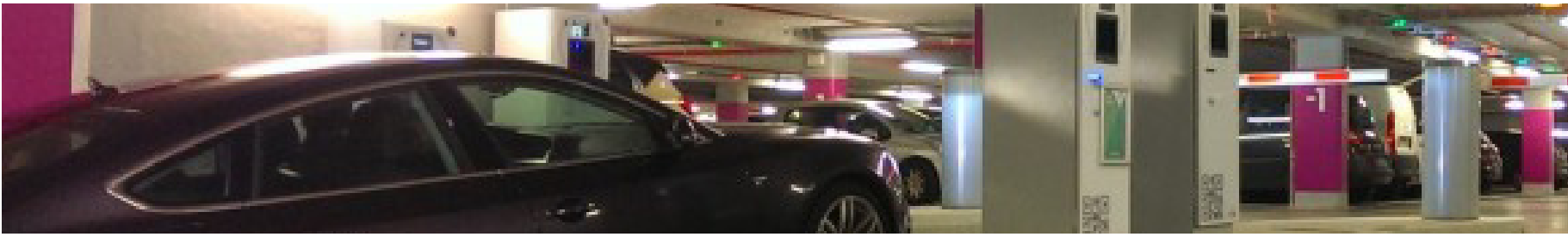
Smart Data Center Cooling - LIC

Smart Parking



5





PROBLEMS

SOLUTION: SMART PARKING



DRIVERS' DISSATISFACTION

- ◀ **Parking location** supports user's decision between own car public transport or combination of both.
- ◀ Enabled **e-Payment**



TRAFFIC CONGESTION

- ◀ **Real-time parking availability** saving 43% in time spent looking for a space & 8% reduction in traffic volume



SECURITY

- ◀ **Decreased searching for space** can reduce accidents by shrinking the time spent on parking searching



POLLUTION

- ◀ Parking optimisation **reduce 40% gases** emissions such as NO2, CO2 & CO



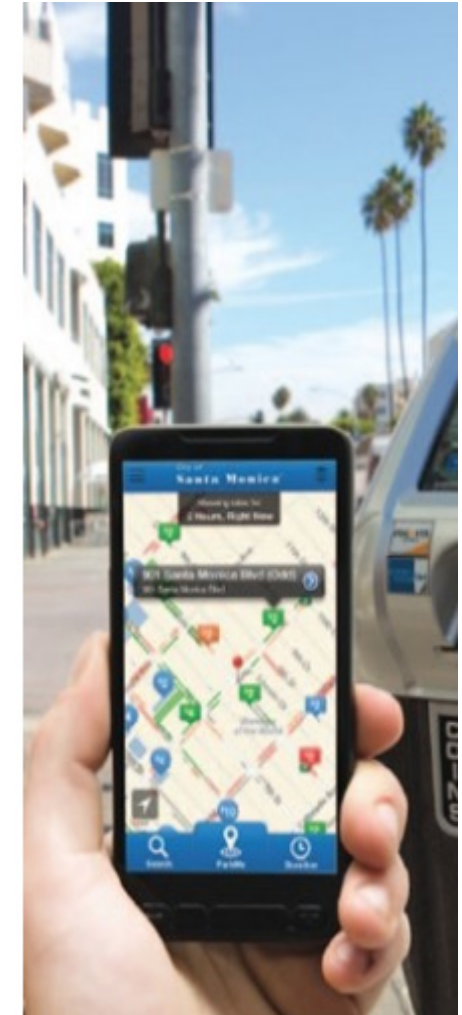
LACK OF REVENUES

- ◀ Create **efficient framework** of **parking violation** monitoring



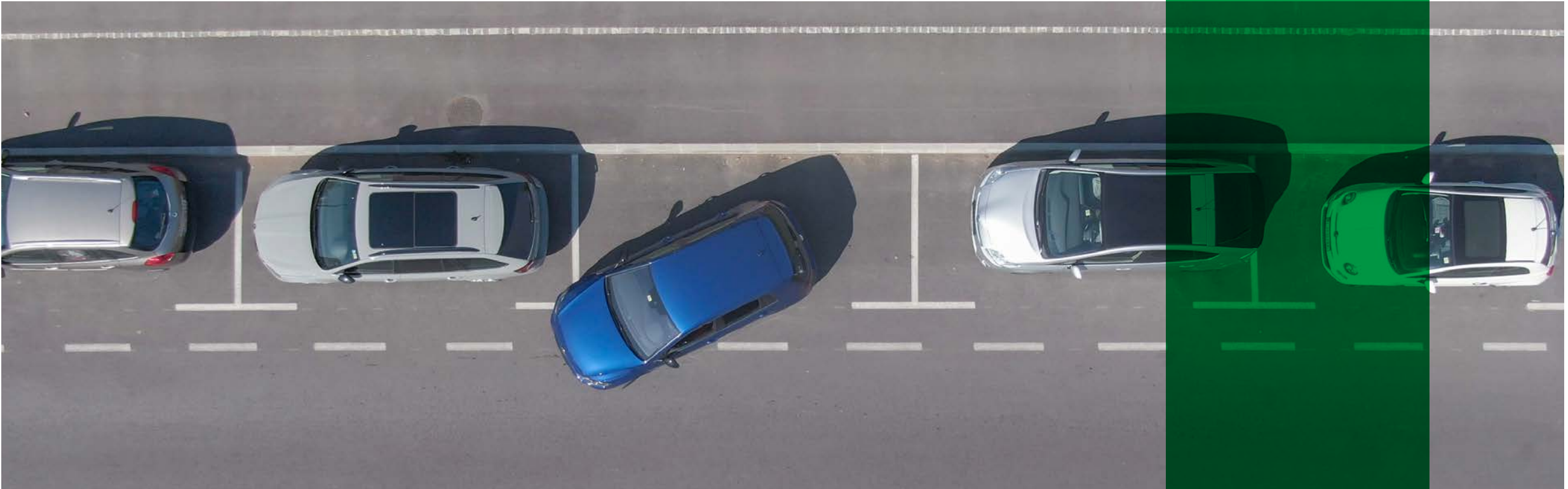
GROWING URBANIZATION SCALE & UNSTRUCTURED PARKING

- ◀ Reduces unstructured parking by **clear organization** of on-road and off-road parking locations

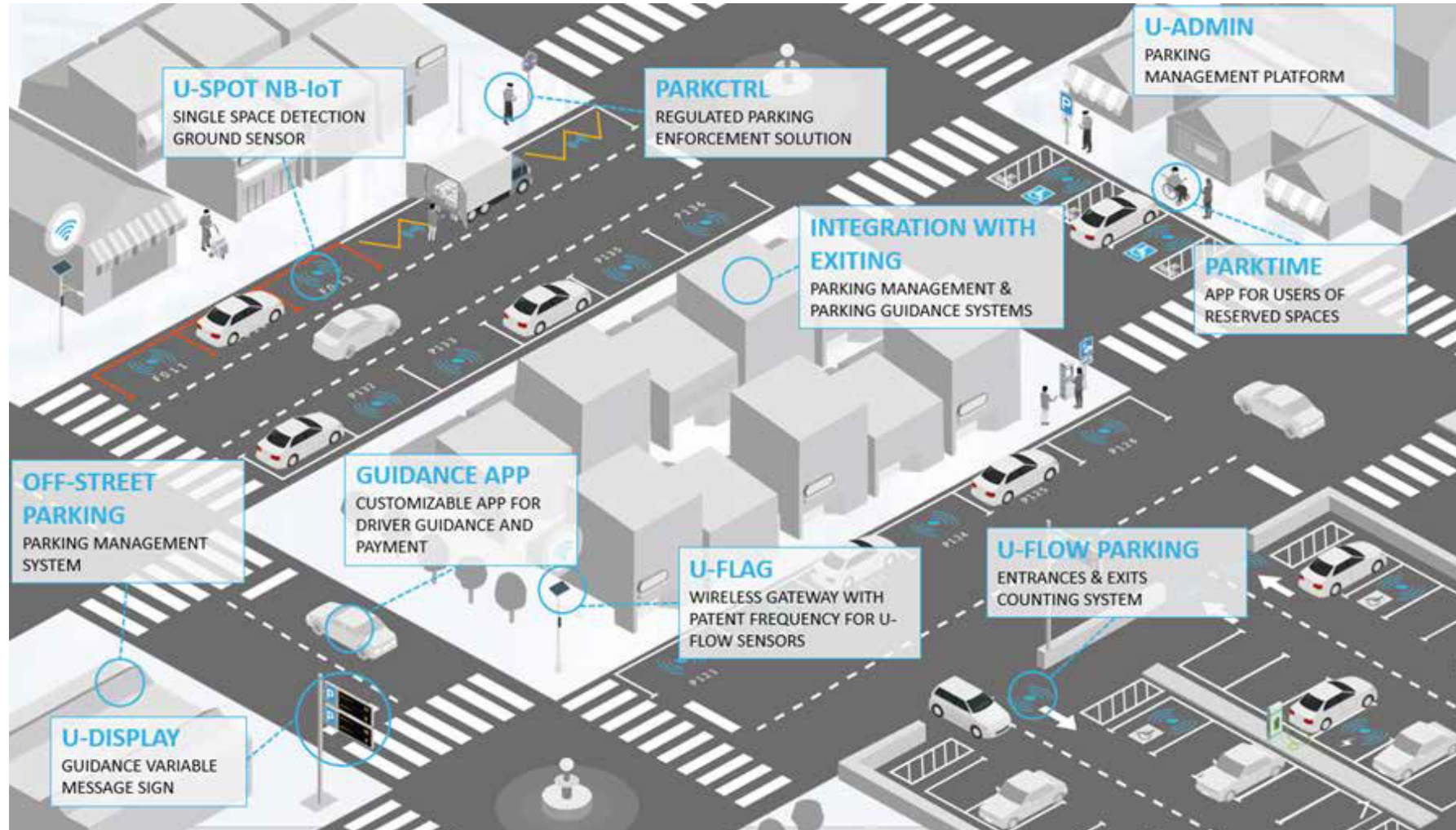


Turnkey Solution Meeting Every City Needs

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Key differentiators
from sensor
technology to
seamless
implementation



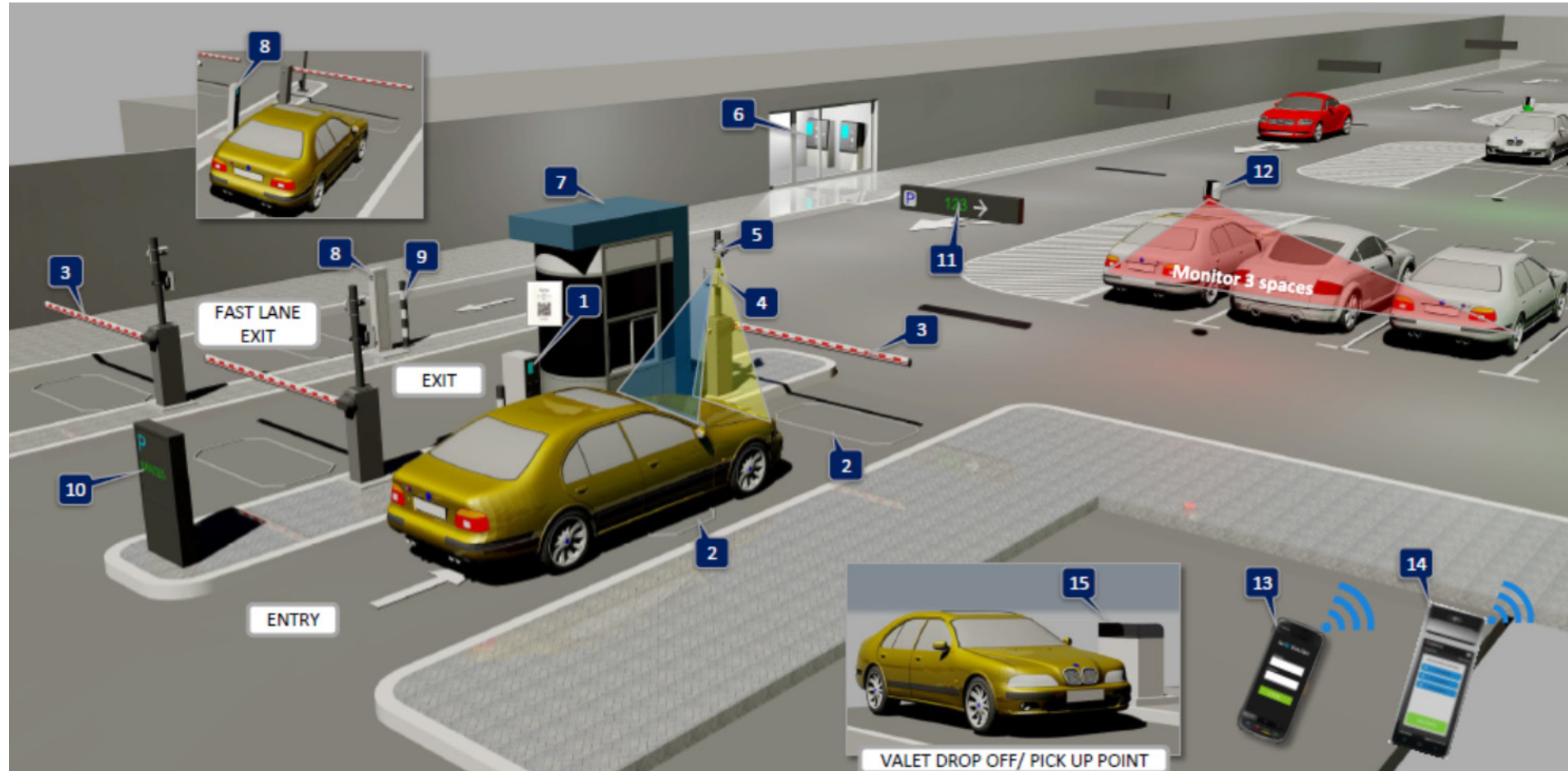
Off-Street Parking Management System

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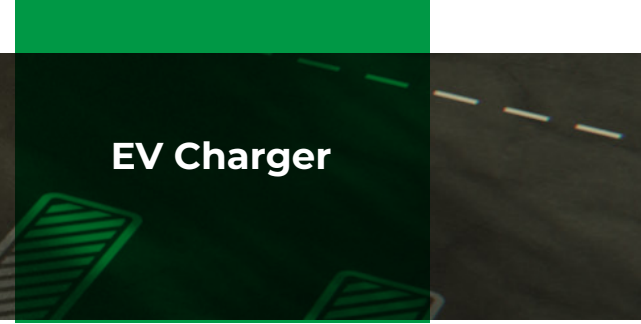
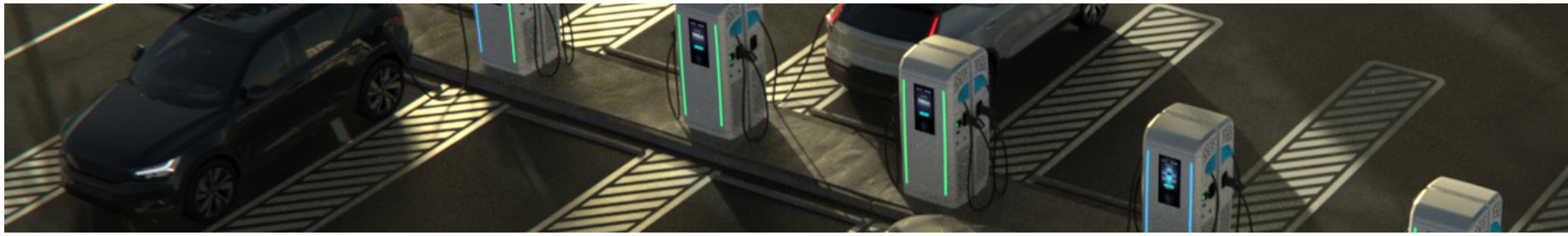
- 1 Touchless Entry Terminal – QR Code Ticket
- 2 Vehicle Presence And Safety Loops
- 3 Fast Opening And Closing Barrier
- 4 Long Range RFID Reader
- 5 Automatic Number Plate Recognition Camera
- 6 Automatic Pay Station
- 7 Cash/Cashless Cashier Station Booth
- 8 Exit Terminal
- 9 Terminal Protection Bollard
- 10 Outdoor VMS Sign
- 11 Indoor / Internal VMS Sign
- 12 PGS System
- 13 Handheld Mobile Cashier
- 14 Handheld Validator
- 15 Valet Podium



EV Charger

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VEGA CHARGERS



ALOHA Gravity



ALOHA Lander

EVBOX



**EVBox
Business Line**



**EVBox
Ultroniq**



**EVBox
Troniq 50**



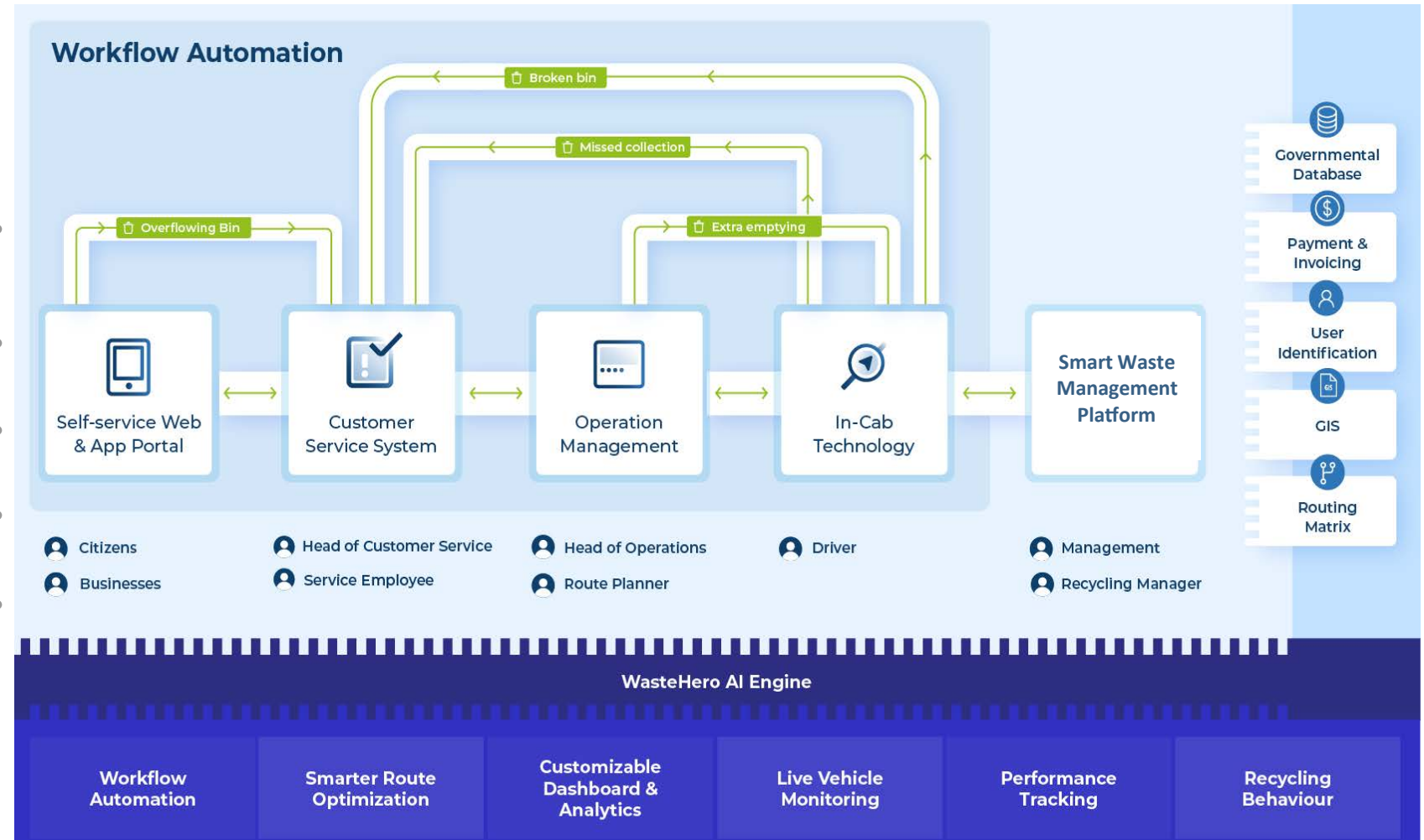
**EVBox
Elvi**

Smart Waste Management



Smart Waste Management

- 1** We integrate all processes, 3rd party systems, and hardware in one central plug-and-play ecosystem
- 2** Operating systems built as single integratable modules to be scaled as required
- 3** Enables automation of daily workflows
- 4** High-level communication and transparency into operations
- 5** Time spent documenting and managing issues reduced
- 6** Tracks all performance and results across waste infrastructure and operations



Unified Dashboard

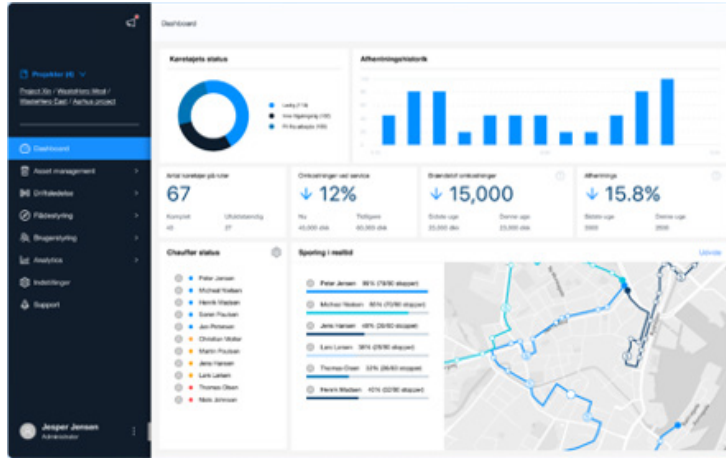
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Unified Dashboard

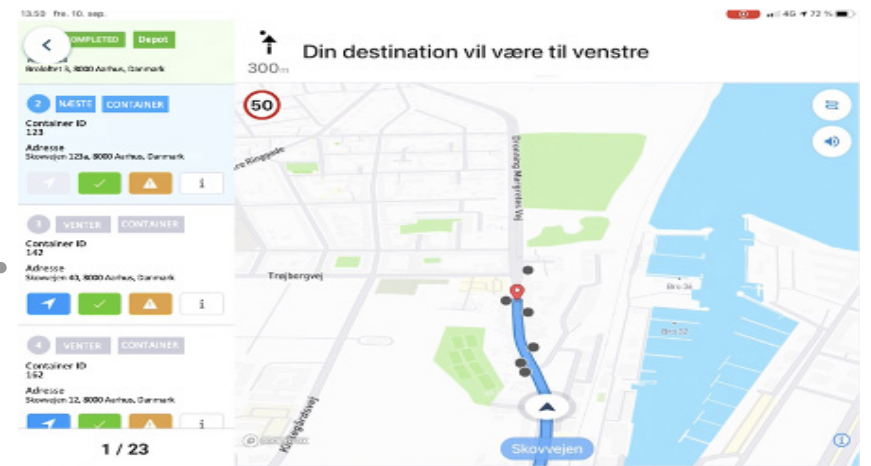
Dashboard



Driver's Navigation Image

Tickets Management

Route planning



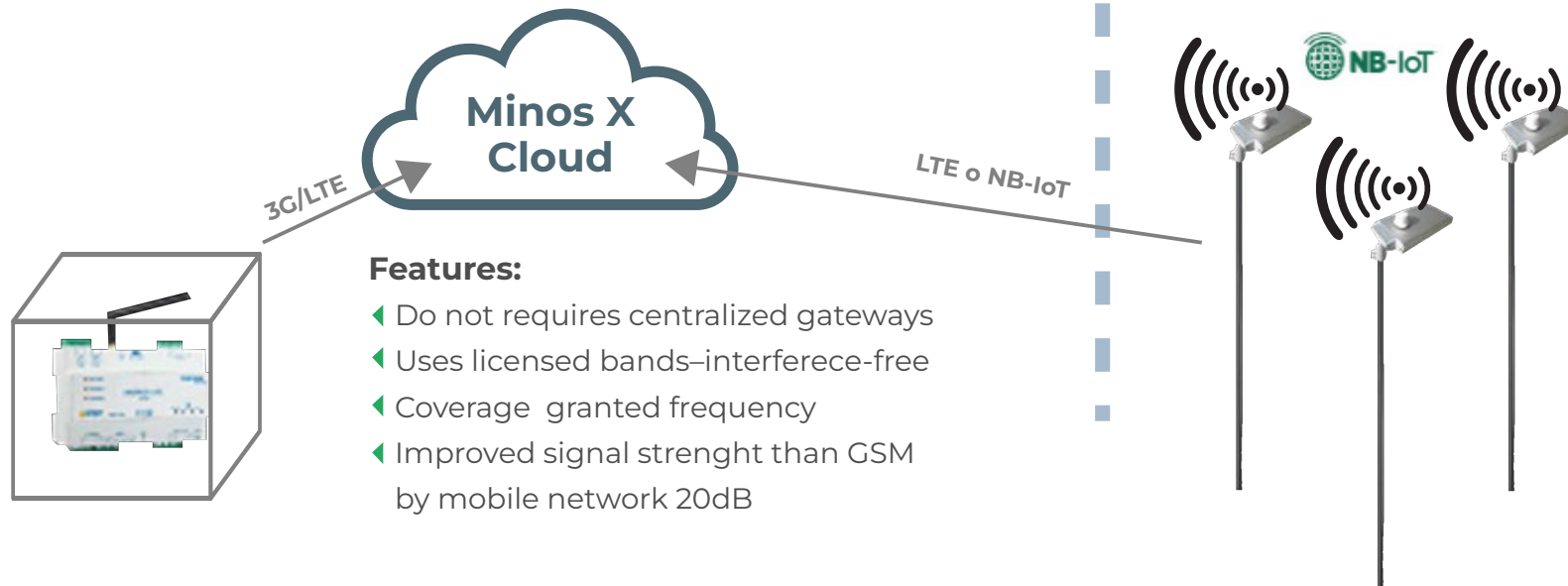
Smart Lighting

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4G LTE NB-IoT Minos System Outdoor Lighting remote management- Architecture



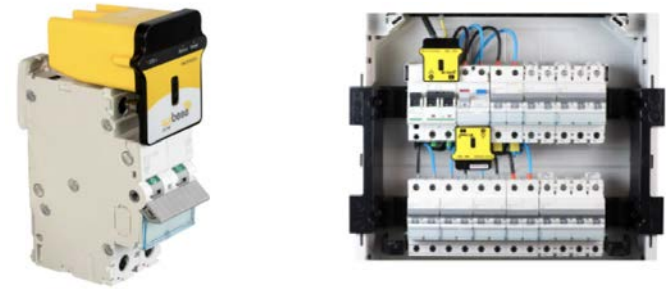
Smart Sub-Metering

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Smart Sub-Metering



The electrical parameters of each appliance have a unique digital footprint.

What Shazam makes with the music, we make it with electricity

We use machine learning algorithms and artificial intelligence to identify the digital footprint of each appliance inside the house





Smart Sub-Metering



Ultrasonic water meter is designed for accurate measurement of cold and hot water consumption in households, apartment buildings, and small commercial premises.

It is the first ultrasonic water meter with the integrated NB-IoT technology in Europe.

- ◀ Static method of water consumption measurement, no moving parts
- ◀ High accuracy calculation of water consumption
- ◀ Eliminates measuring deviations caused by sand, suspended particles, or air pockets
- ◀ Long-term measurement stability and reliability
- ◀ 9 digits, multi-line LCD. Total volume and instantaneous flow rate indication
- ◀ Sensitive and accurate in low flows, down to 1l/h

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Smart City Infrastructure Monitoring



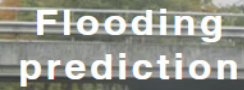
A dark blue rectangular box with the title 'Smart City Infrastructure Monitoring' in white, bold, sans-serif font. The background of the entire slide is a wide-angle photograph of a modern city street with multiple lanes, palm trees, and buildings under a clear sky.

Smart City Infrastructure Monitoring

A dark, slightly blurred photograph of a city street at night with a manhole cover in the foreground. The text is overlaid in white.

Manhole monitoring

Acts as an inventory system but also visualises the moments they were opened

A photograph of a river or canal flowing under a concrete bridge. The text is overlaid in white.

Flooding prediction

View the water level over time and compare to other levels upstream

A photograph looking down into a green circular manhole opening. Inside, there is dark water and some debris. The text is overlaid in white.

Waste water monitoring

Flow, quality and quantity, valve positions, floodgates, ..

A landscape photograph showing a green valley with rolling hills and several wind turbines in the distance under a cloudy sky. The text is overlaid in white.

Air quality

Predictive dashboard based on air quality readings

A photograph of a road construction site with various signs and barriers. The text is overlaid in white.

Roadsign management

Inventory management of all fixed and mobile roadsigns with or without a tilting and rotation sensor

A photograph of a modern, brightly lit interior space, possibly a lounge or meeting area, with several grey armchairs arranged around a table. The text is overlaid in white.

Occupancy

How many people in what area at what given time

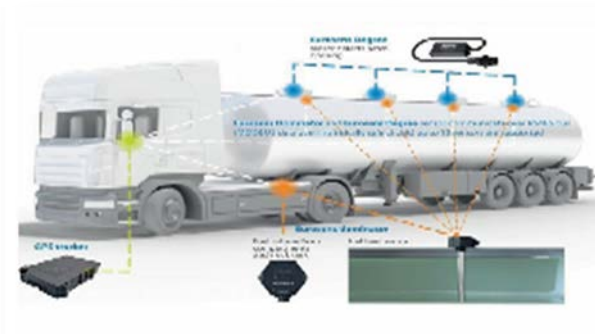
IoT for Oil & Gas

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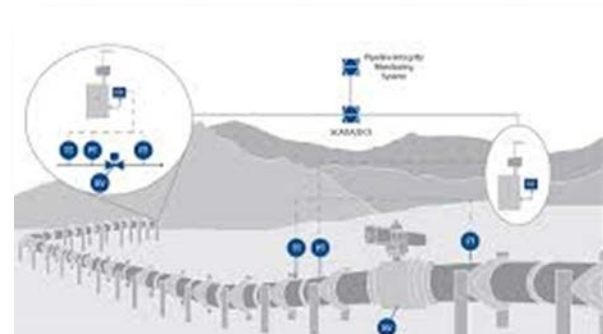


IoT for Oil & Gas



Fleet Monitoring Solution

- ◀ Monitor your fleet anytime anywhere
- ◀ Optimal Route Management
- ◀ Oil Transporter Weight Measurement
- ◀ Transport Tanker Temperature Sensing
- ◀ Fleet Tracking and Trip Management



Leak Detection Solution

- ◀ Detect leaks faster to prevent accidents
- ◀ Real-time Pipeline Leakage detection
- ◀ Methane Gas detection
- ◀ Real-time Alert System
- ◀ Remote Area Pipeline Monitoring



Oil Tanks Monitoring

- ◀ Extra layer protection for your Oil Tanks
- ◀ Monitor tank level and temperature
- ◀ Water pressure monitoring
- ◀ Remote Oil well monitoring
- ◀ Monitor Oil Tanks Remotely

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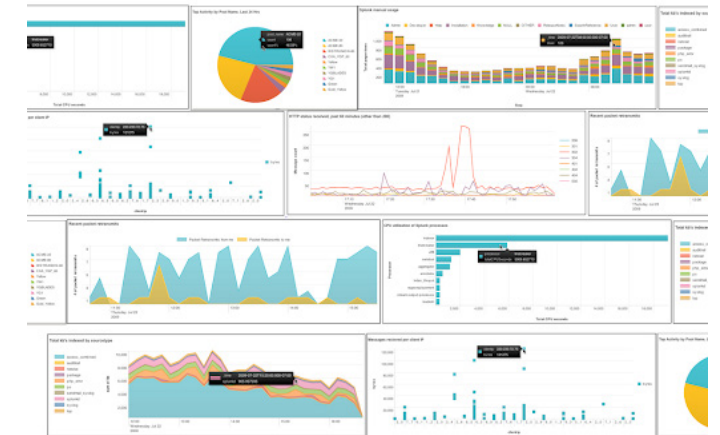
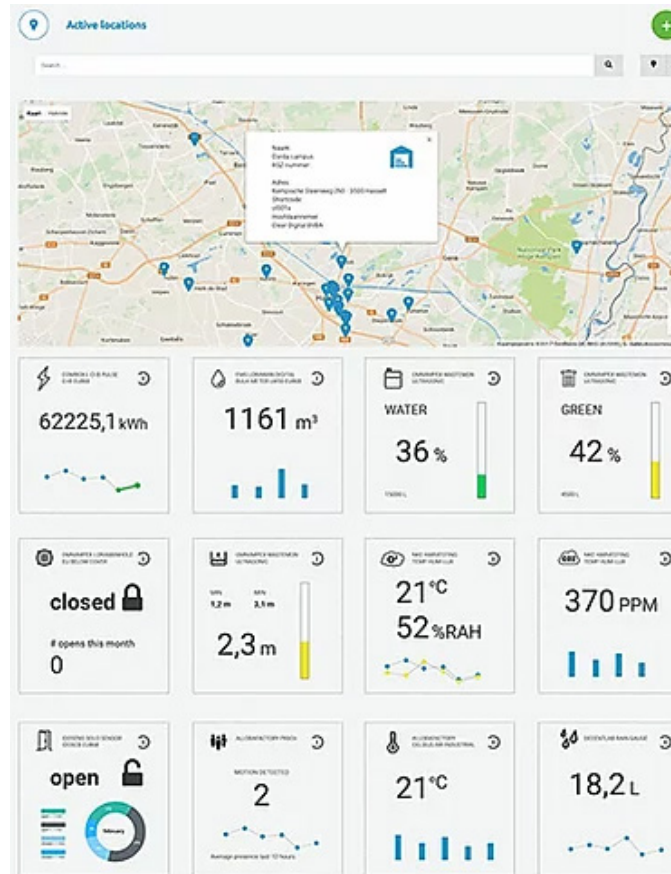


Platform and Mobile App



Platform and Mobile App

- ◀ We combine inputs from API connected systems, public communication networks, smart device apps, custom software and connected devices.
- ◀ Our system does not only collect but also processes and manages the needed data for every use case it facilitates.
- ◀ We customize your dashboard, rules, regulations according to your need.
- ◀ We tailor the user profile and access management to fit your requirements.



Smart Data Center Cooling

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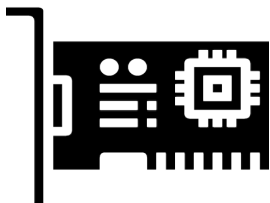
Smart Data Center Cooling



Immersion Cooling
(rack and primary cooling)



Optimised Secondary Cooling



Immersion Cooling Ready IT-Hardware: Servers, Switches, Powershelves, Backup-Batteries



Green Datacenter Consult Service & Heat-Reuse



SmartPod XL
50kw cooling / 44u capacity



MicroPod
7kw / 6u capacity



SmartPod X
50kw cooling / 21u capacity



SmartPod XL+
100kw cooling / 42u capacity


What We Achieve



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Let's Help You Become Smarter
Thank you