



ioThink[®]

Solutions

Make IoT Simple

Our Markets



Smart Building



Smart Industry



Smart City



Smart Retail



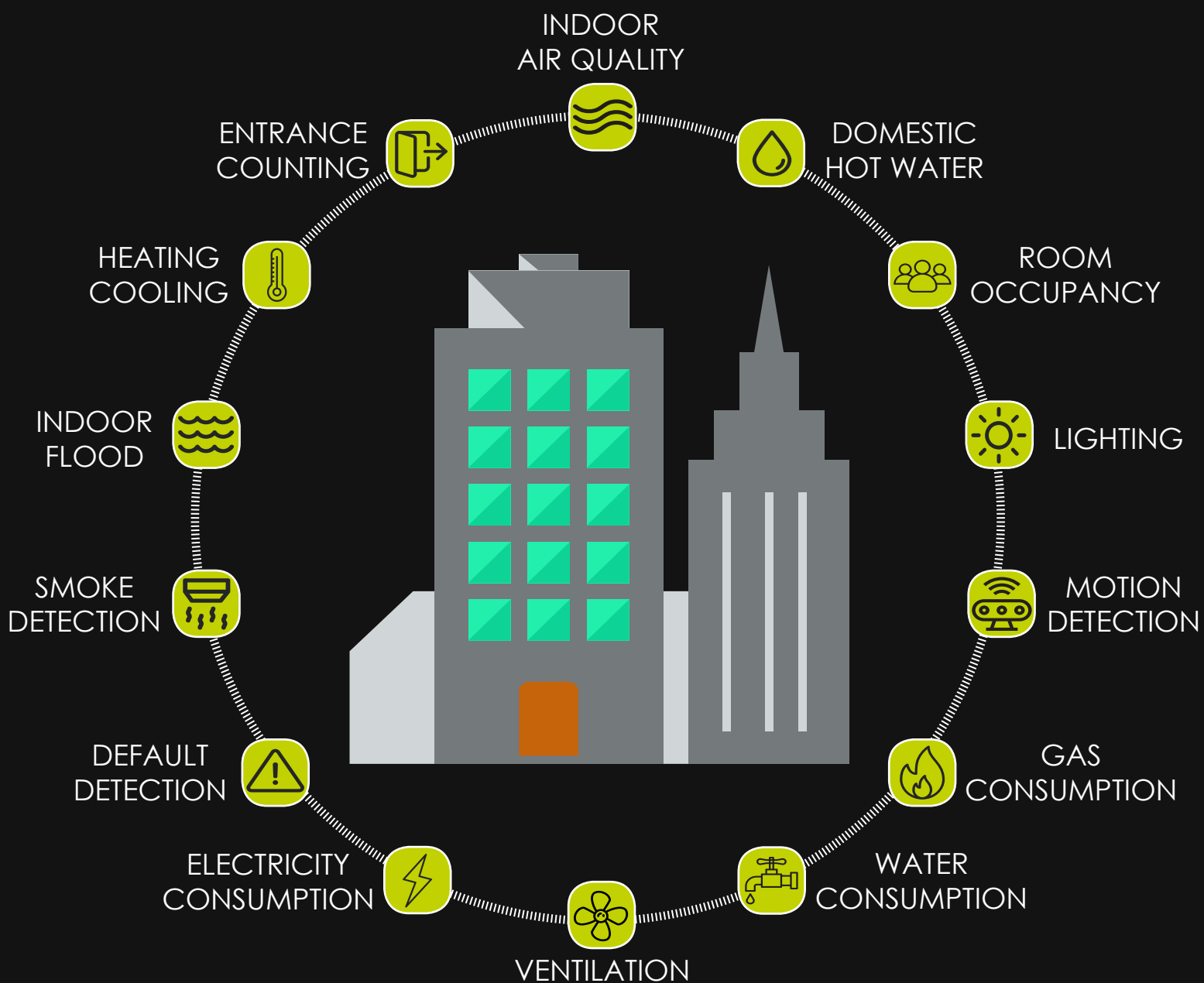
Smart Energy



Smart Agriculture

SMART BUILDING

Examples of use cases



Make IoT Simple

Indoor Air Quality



Applications:

Indoor air quality is a crucial issue today for health and the environment. Manage your indoor environment to improve the comfort of occupants.



TARGETS

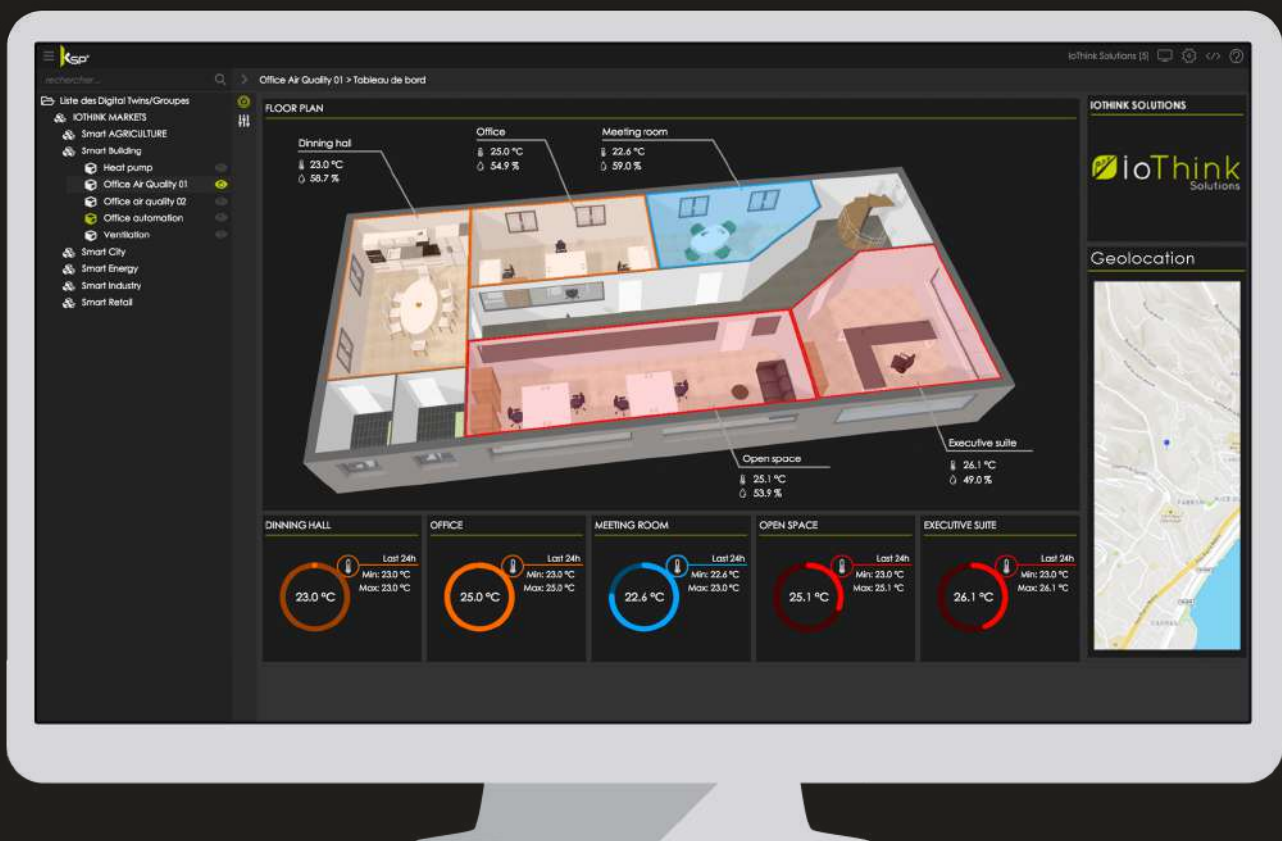
- Schools, Universities
- Offices
- Public places
- Cities
- Hospitals
- Residential homes
- Property managers
- Facility managers
- Maintenance contract managers

BENEFITS

- Occupant comfort
- Regulatory compliance
- Real time alerts on overruns
- Avoid health risks
- Increase performance, concentration of employees



Example: Office Air Quality



Domestic Hot Water



Applications:

The reliability and frequency of domestic hot water readings perfectly meets the regulatory requirements related to health problems.



TARGETS

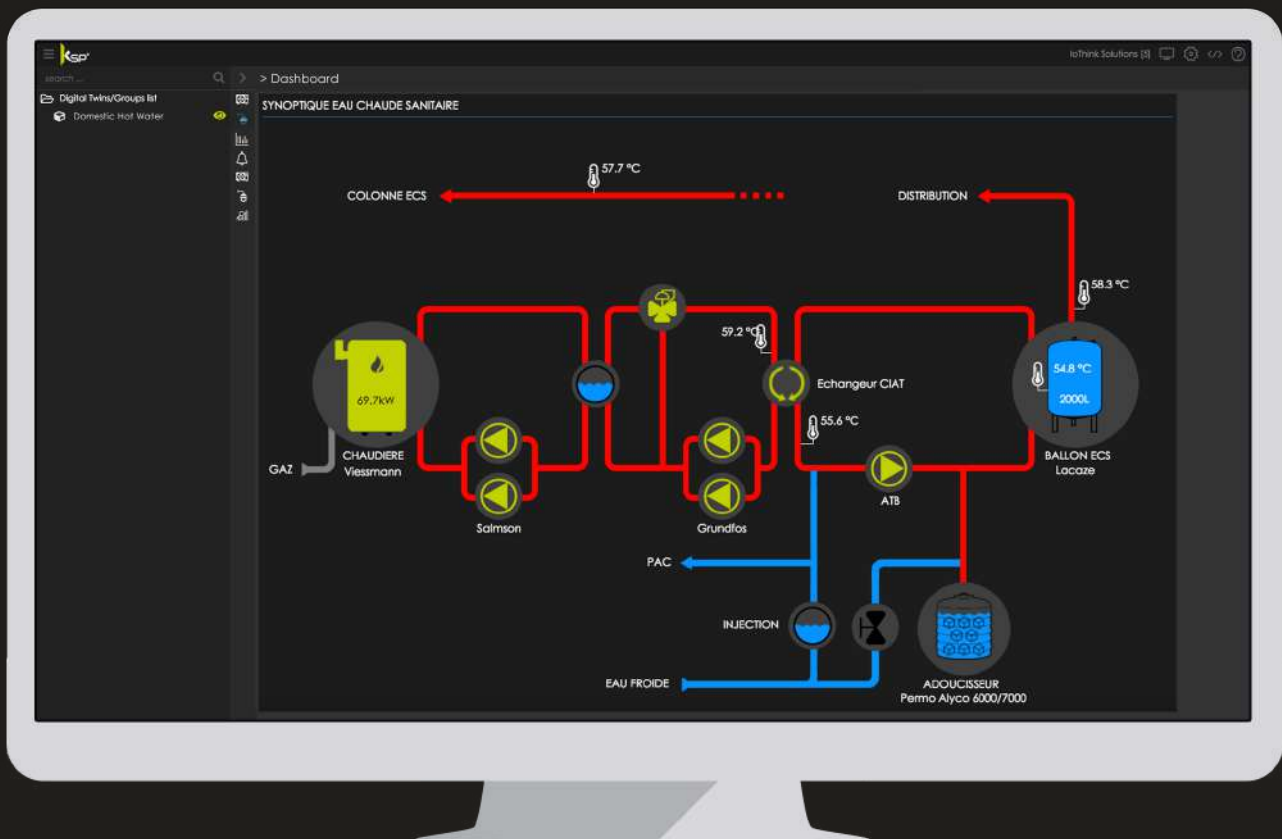
- Health institutions
- Schools, Universities
- Public places
- Cities
- Hospitals
- Residential homes
- Property managers
- Facility managers
- Maintenance contract managers

BENEFITS

- Automate your regulatory statements
- Meet the regulatory requirements
- To be alerted in case of overtaking
- Limit health risks
- Limit the risk of legionella
- Ensure occupant comfort



Example: Hotel Domestic Hot Water



Smart Building

Room Occupancy

Applications:

Space occupancy rate surveys can help building managers to improve space use, overall user comfort, and meet regulatory requirements.



TARGETS

- Schools, Universities
- Offices
- Shared workspaces
- Hotels
- Hospitals
- Meeting rooms

BENEFITS

- Optimize office space
- Reduce the energy consumption according to the presence of occupants (air-conditioning / heating / lighting)
- Improvement of maintenance or cleaning tours
- Manage the occupancy of meeting rooms
- Intrusion detection



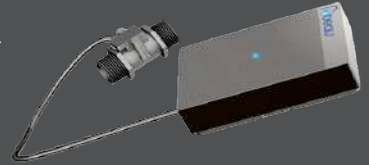
Example: School Occupancy



Smart Building

Water Consumption

LoRaWAN



Applications:

Remote meter reading allows to have a global vision of these consumption and to be alerted in real time in case of leaks or overconsumption.



TARGETS

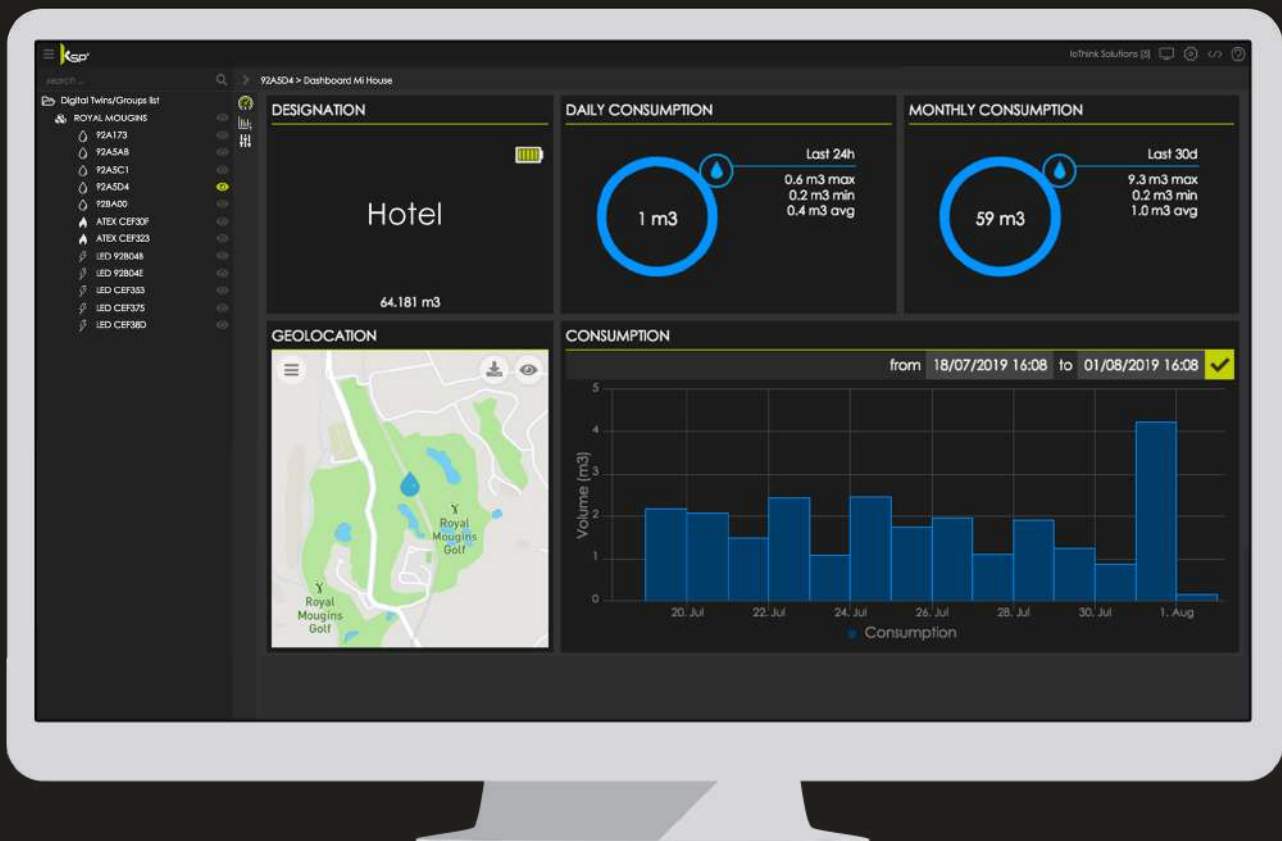
- Schools, Universities
- Offices
- Hotels, Restaurants
- Hospitals
- Residential homes
- Property managers
- Facility managers
- Maintenance contract managers

BENEFITS

- Remote meter consumption
- Leak detection
- Estimated monthly bill
- Avoid on-site visits
- Manage a legacy meters



Example: Hotel Consumption



Electricity Consumption

Applications:

Remote electricity reading allows to have a global vision of these consumption and to be alerted in real time in case of overconsumption or breakdowns.



TARGETS

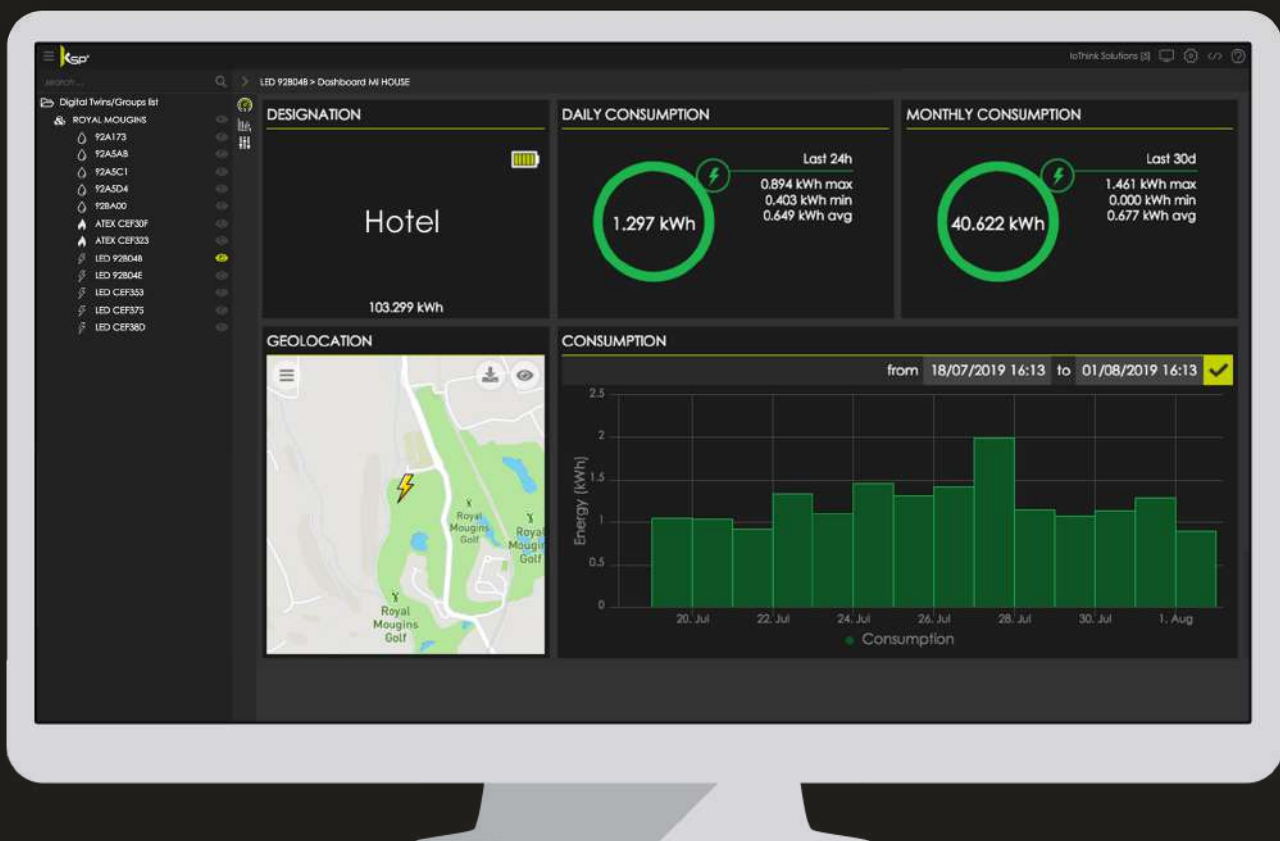
- Schools, Universities
- Offices
- Hospitals, Restaurants
- Residential homes
- Property managers
- Facility managers
- Maintenance contract managers

BENEFITS

- Remote meter consumption
- Leak detection
- Estimated monthly bill
- Avoid on-site visits
- Manage legacy meters



Example: Restaurant Consumption



Smart Building

Smoke Detection

Applications:

In case of smoke detection, it is very important to be alerted as soon as possible to avoid too much damage.



TARGETS

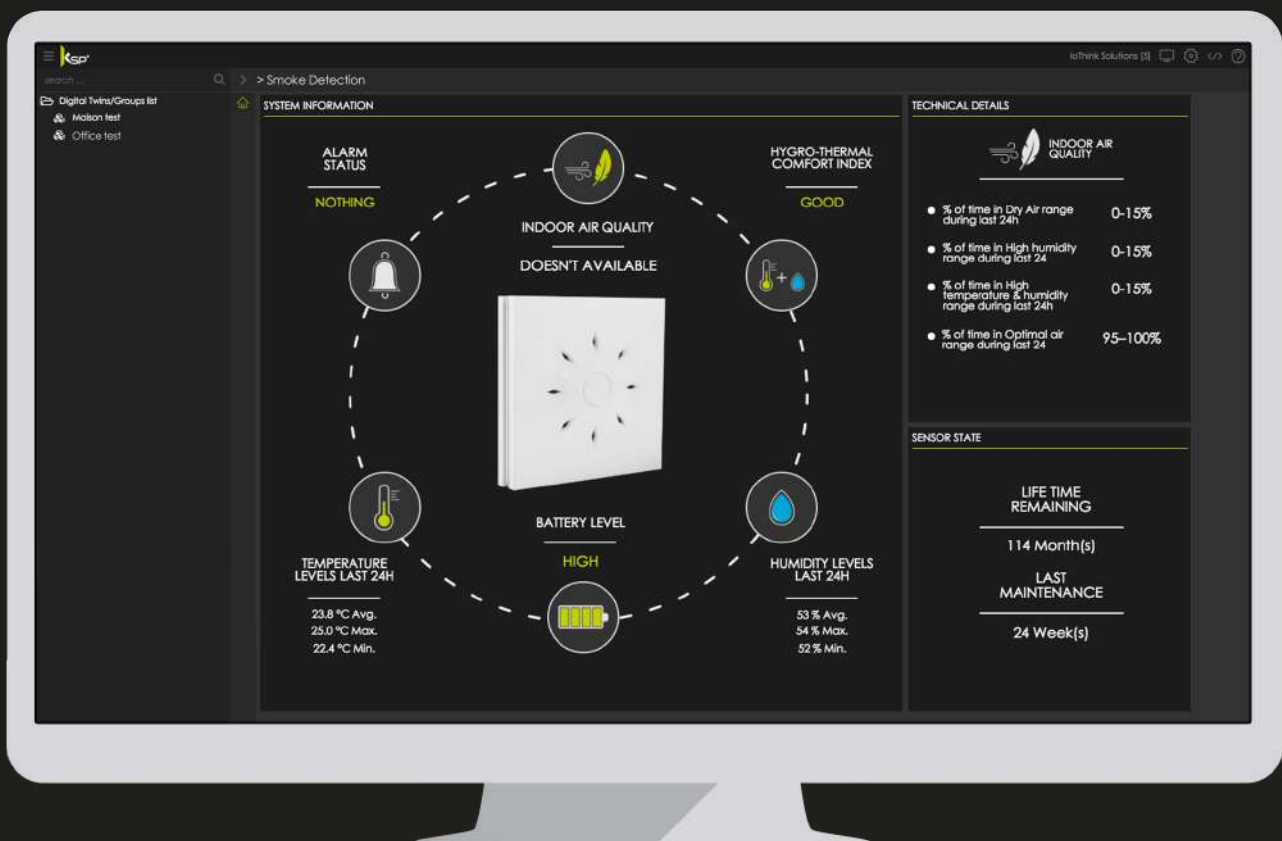
- Schools, Universities
- Offices
- Hospitals, Restaurants
- Residential homes
- Property managers
- Facility managers
- Maintenance contract managers

BENEFITS

- Remotely alerted
- Localization on plan
- Reactivity in case of intervention
- Centralized tracking of detectors
- Battery levels in real time



Example: Office Smoke Detection



Smart Building

Ventilation

Applications:

Building ventilation contributes to comfort and air quality by removing pollutants (odors, moisture, combustion products from heaters, microbes, etc.).

LoRaWAN

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TARGETS

- Schools, Universities
- Offices
- Public places
- Cities
- Hospitals
- Residential homes
- Property managers

BENEFITS

- Verification of ventilation
- Dirty filters
- Preventive maintenance
- Opening trap detection
- Monitor a fleet of controlled mechanical ventilations



Example: Ventilation Box



Smart Building

Heating / Cooling

Applications:

Remotely manage your thermal energy equipment in your building. Monitor your temperature in real time and save energy.

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TARGETS

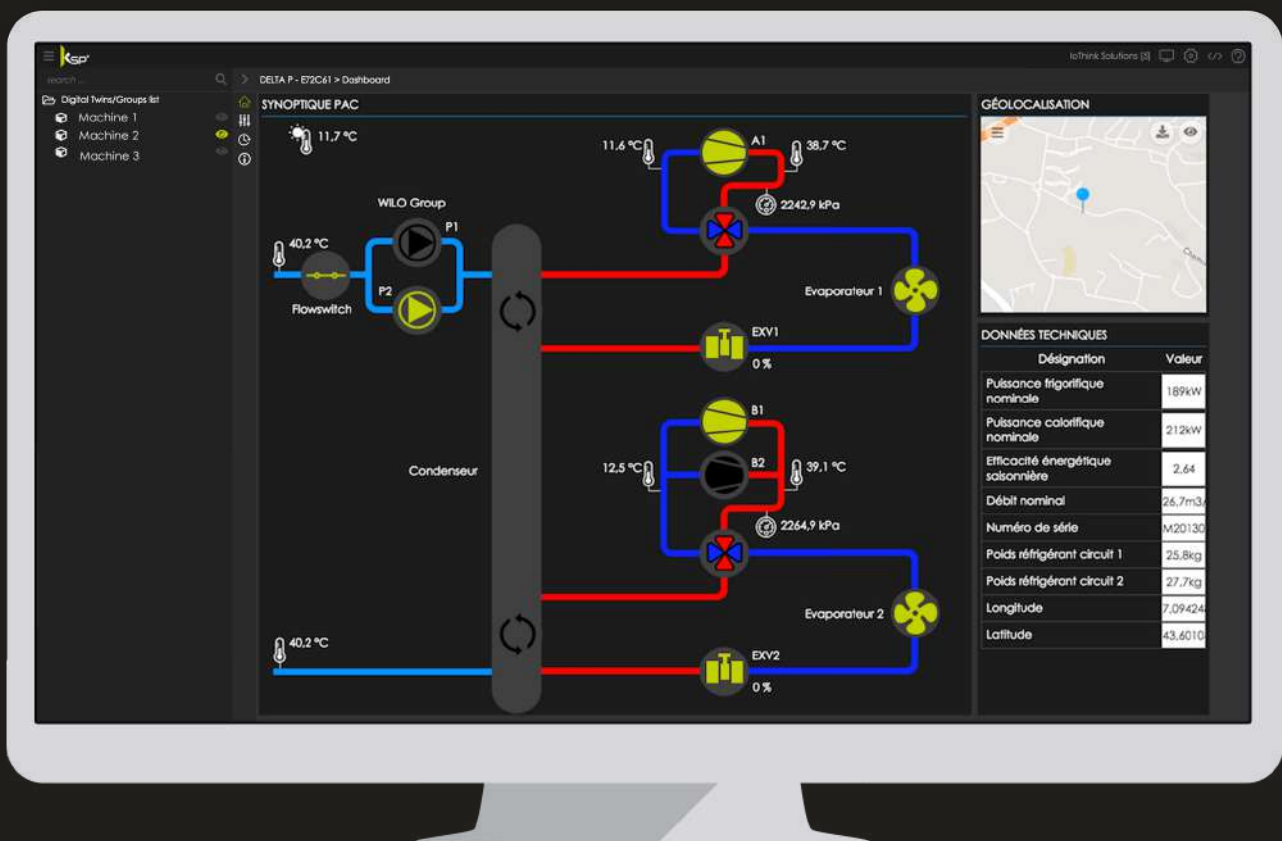
- Schools, Universities
- Offices
- Public places
- Cities
- Hospitals
- Residential homes
- Property managers

BENEFITS

- Temperature inlet / outlet
- Improve occupant comfort
- Control change over / set points
- Faults detection
- Preventive maintenance



Example: Heat Pump



SMART CITY

Examples of use cases



Make IoT Simple

Tank Monitoring



Applications:

Manage your inventory more efficiently, improve your internal organization save time for you technicians team.



TARGETS

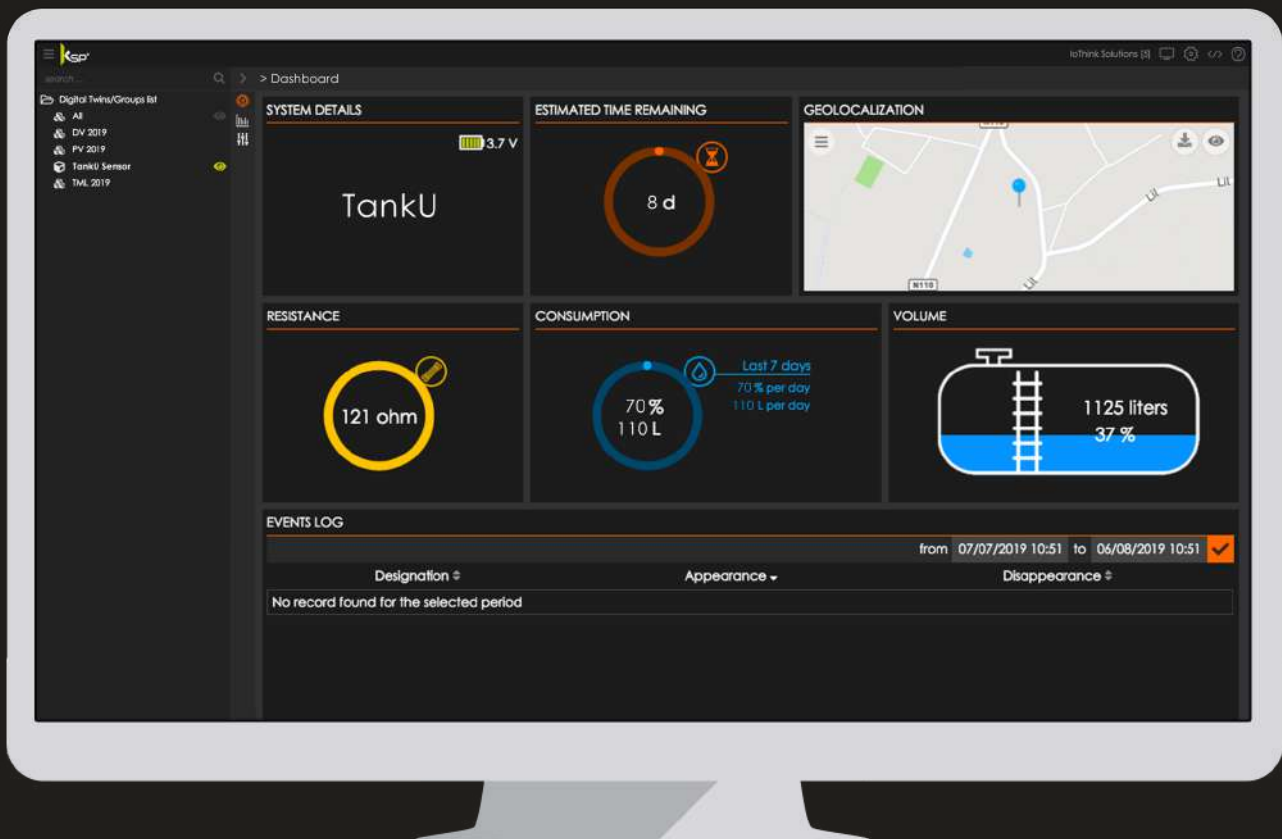
- Operators of different products (Oil, fuel oil, water, sanitation products)
- Cities

BENEFITS

- Status of legacy tanks
- Optimization of tours
- Geolocation of tanks
- Calculation and prediction of autonomy
- Volume calculation of tanks
- Reduce logistic costs
- Avoid emergency interventions



Example: Water Tank Monitoring



Smart City Tracking



Applications:

Track valuable assets and create new service opportunities. Manage inventory and improve operations with real-time information.



TARGETS

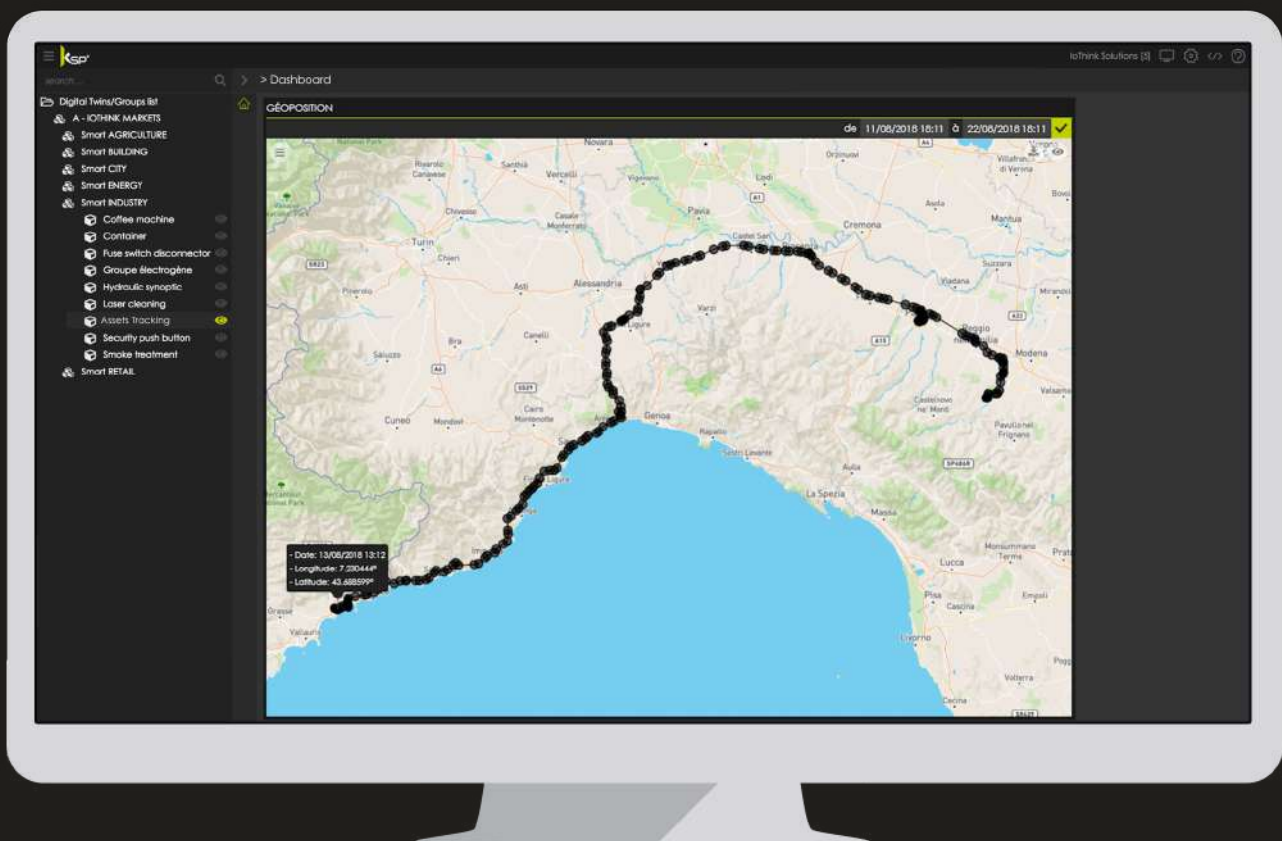
- Operators
- Cities
- Carriers
- Industrials
- Farmers

BENEFITS

- Locate assets in real time
- Geofencing / alerts
- Robbery Detection
- Shock detection
- Optimization of logistic
- Manage inventories
- Status of legacy assets in real-time



Example: Assets Tracking



Garden Watering

Applications:

Remote management of watering in public gardens, save water and improve public places management.



TARGETS

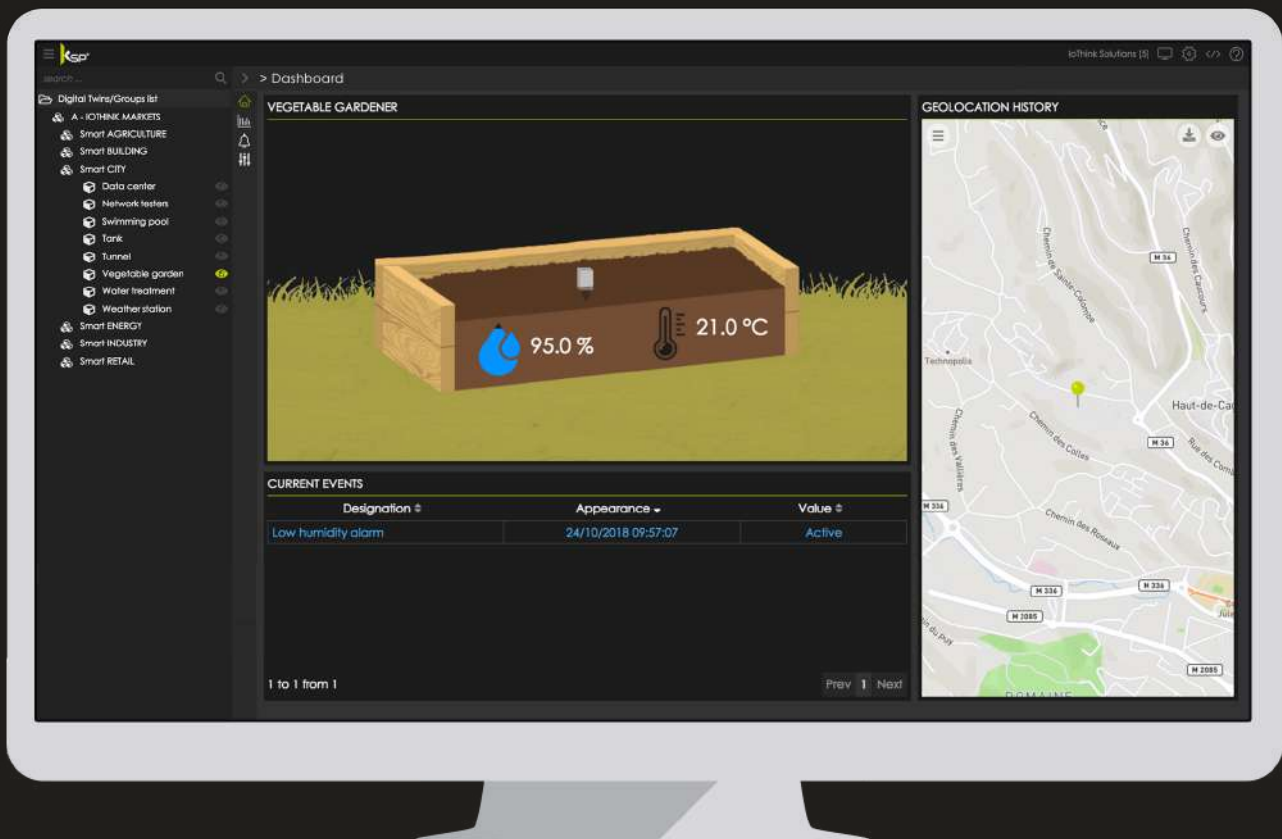
- Gardens
- Public parks
- Zoos
- Cities

BENEFITS

- Optimize water consumption
- Leak detection
- Coupling with hygrometry, rainfall
- Irrigation by zones
- Remote manual control
- Measurement of consumption
- Estimated monthly bill



Example: Public Garden Watering



Parking Management



Applications:

Visualization of the occupancy rate, manage parking and offer parking spaces in an underground car park or on public roads.



TARGETS

- Public car parks
- Shopping centers
- Cities
- Company parkings

BENEFITS

- Parking map
- Real time fill rate
- Availability of cars places in real time
- Geolocation of places
- Sharing urban space



Example: Company parking



Gas Consumption



Applications:

Remote gas reading allows to have a global vision of these consumption and to be alerted in real time in case of over-consumption or leaks.



TARGETS

- Schools, Universities
- Offices
- Hospitals, Restaurants
- Residential homes
- Property managers
- Facility managers
- Maintenance contract managers

BENEFITS

- Remote meter consumption
- Leak detection
- Estimated monthly bill
- Avoid on-site visits
- Manage legacy meters



Example: Gas Consumption



Wastewater Treatment Plan

Applications:

The connected wastewater treatment plants are able to respond to major territorial and economic issues. Remotely manage your wastewater treatment plant and detect malfunctions in real time.



TARGETS

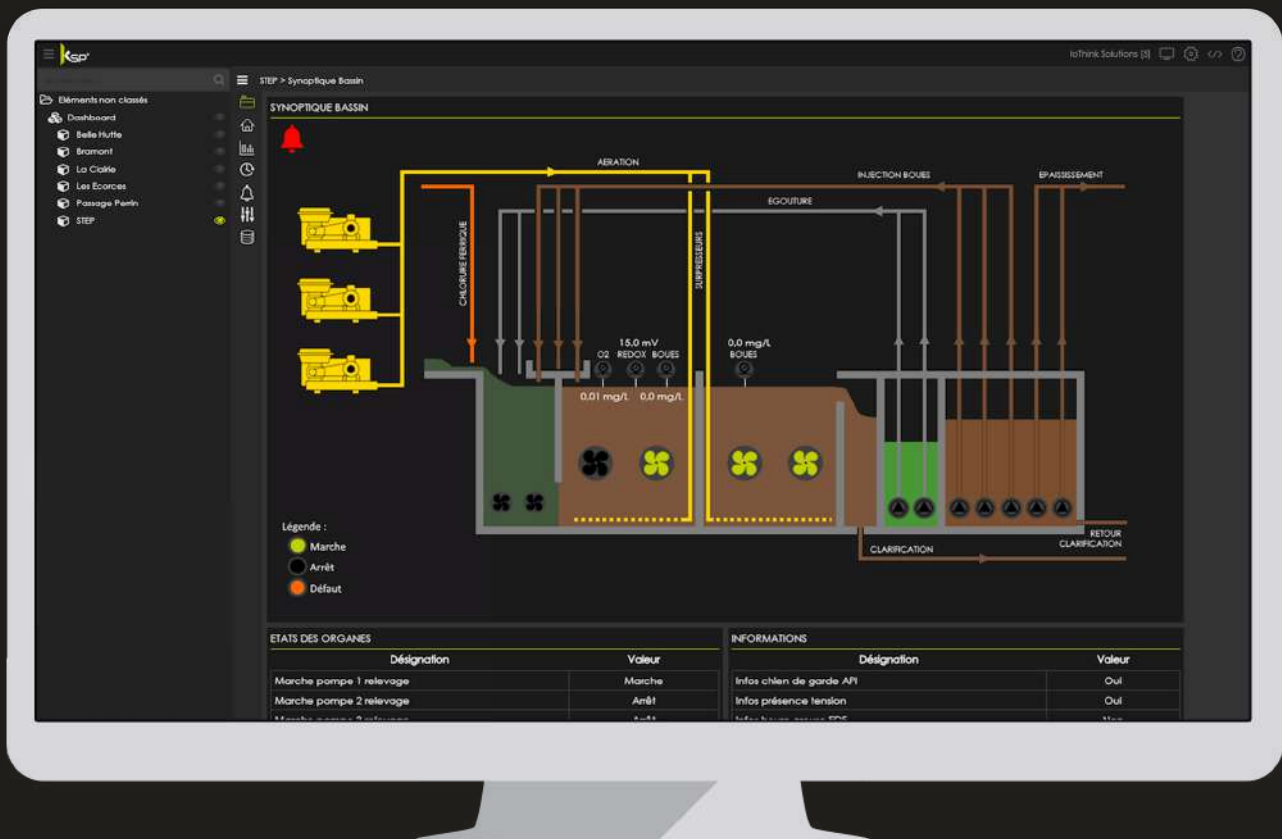
- Wastewater treatment plan

BENEFITS

- Real time status of the plant
- Remote manual control
- Faults detection
- Preventive maintenance
- On-call management
- Regulatory records
- Reporting

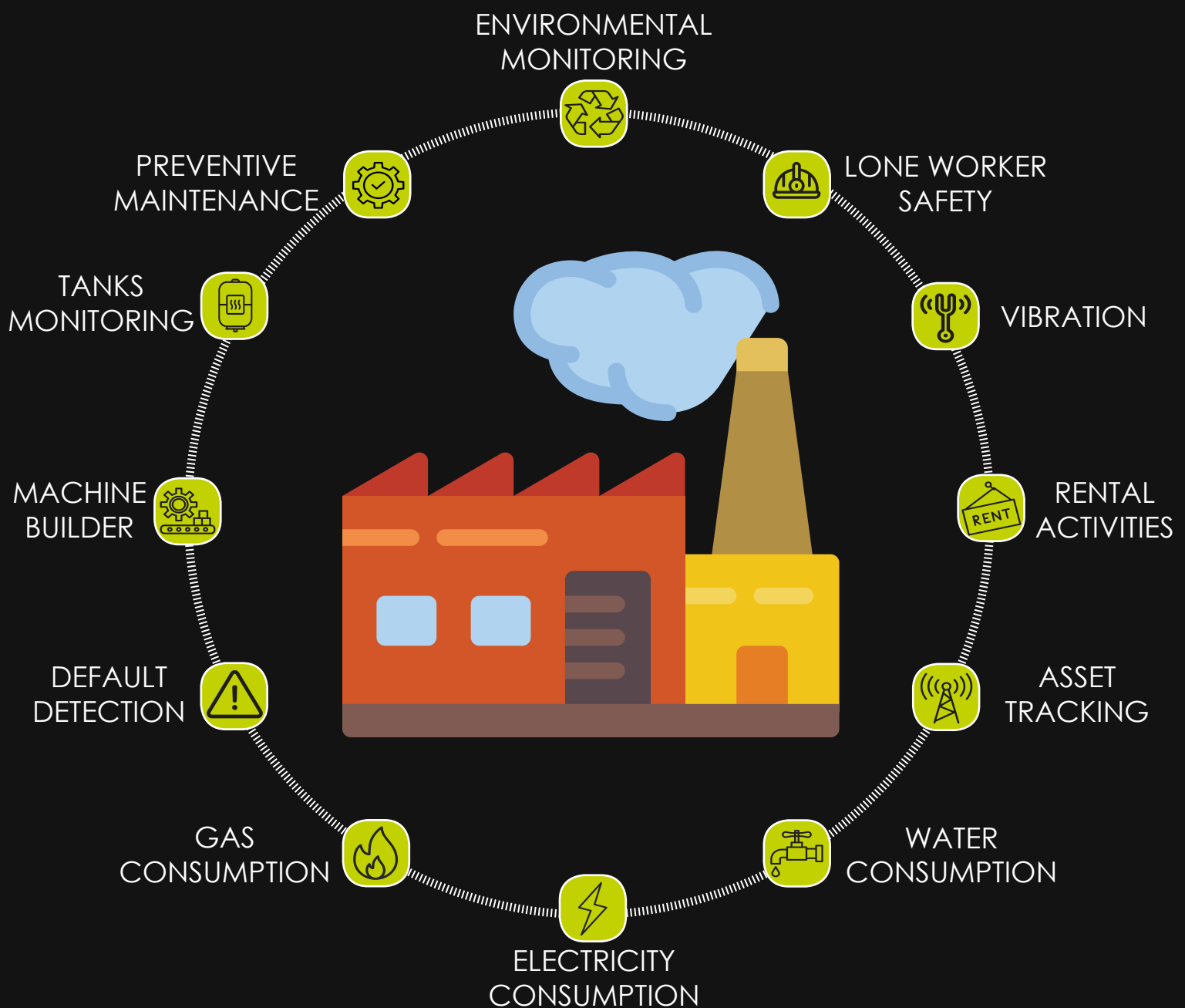


Example: Waste Treatment Plan



SMART INDUSTRY

Examples of use cases



Make *IoT* Simple

Rental Activities

Applications:

The remote management of a fleet of rental equipment is an added value for rental companies. Visualize in real time the geolocation and the operation of your equipment.

4G[®]



TARGETS

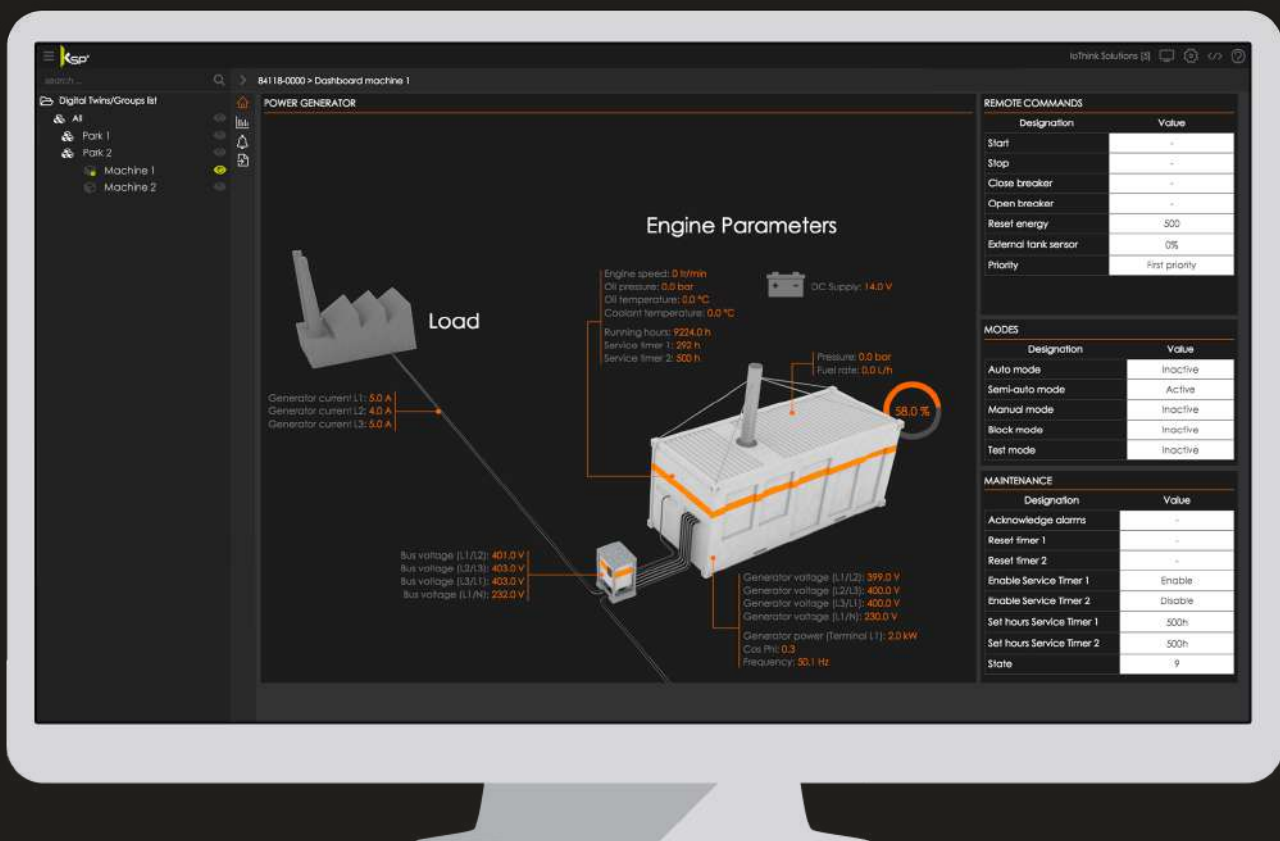
- Power generators
- Cranes
- Forklifts
- Chillers
- Pumps
- Gateways

BENEFITS

- Real time geolocation of the fleet
- Increase the machine availability rate
- Reporting at end of rental period
- Geofencing / robbery detection
- Taking remote Control
- Real time inventory



Example: Power Generators



Assets Tracking

Applications:

Define virtual barriers for your assets and be alerted in case of zone overruns.

3G

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TARGETS

- Machines builders
- Carriers
- Warehouses and logistic
- Rental machines
- Operators
- Heavy machines
- Agricultural equipment

BENEFITS

- Locate assets in real time
- Geofencing: entry / exit of authorized perimeter
- Robbery detection, shocks
- Movement detection outside allowed perimeter
- Manage inventories



Example: Geofencing



Smart Industry

Machine Builder

Applications:

The industrial equipment sector describes a diverse set of industries. Create added value by connecting your industrial machines.

3G



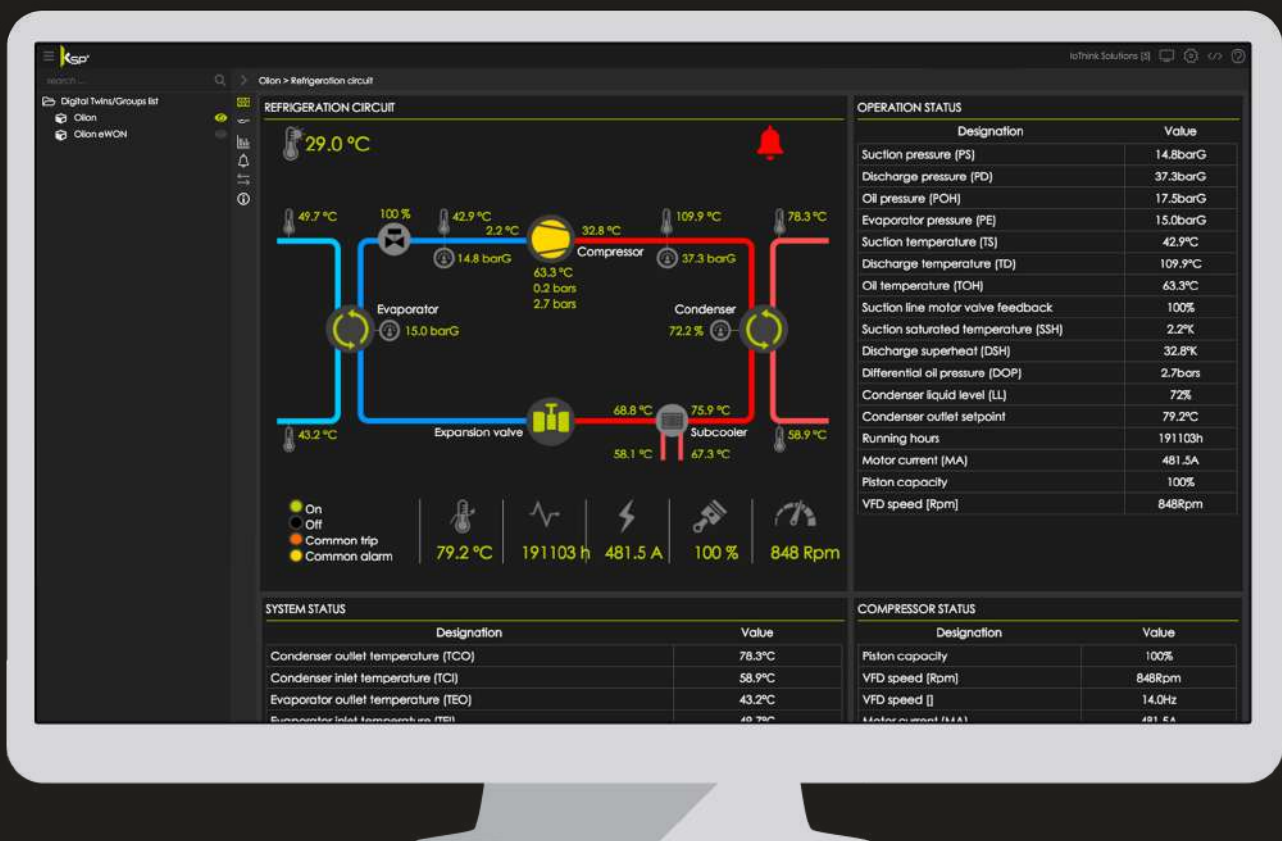
TARGETS

- Power generators
- Chillers, heat pumps
- AHU
- Rooftops
- Boilers
- Lasers cleaning machine
- Pumps

BENEFITS

- Increase availability rate
- Faults detection
- Preventive maintenance
- Operation / maintenance reports
- Remote settings
- Machine maintenance reporting

Example: Refrigeration Machine



Tank Monitoring

Applications:

Optimize the management of your fluids and monitor the filling levels remotely. Manage your single tanks and your stockyard.



TARGETS

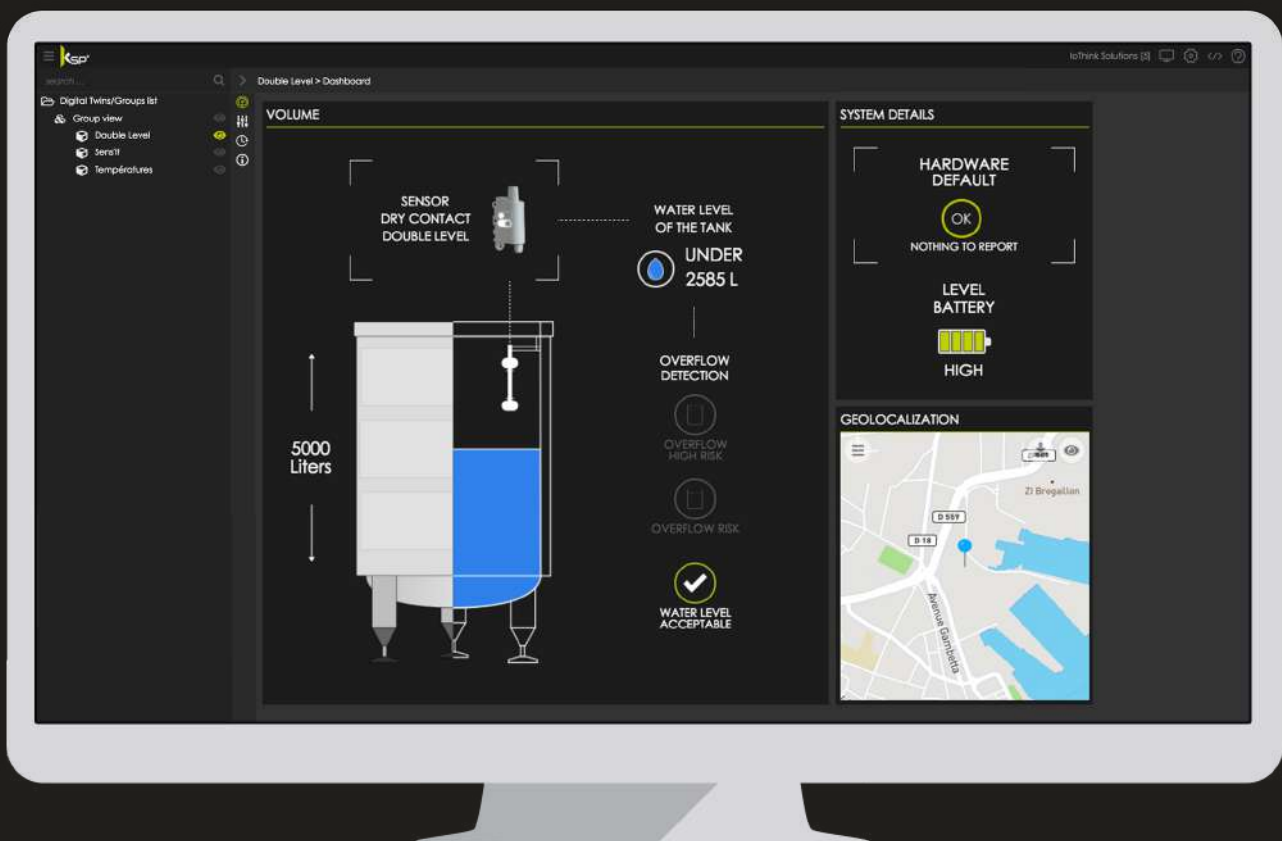
- Industrial lubrication tank
- Gas & oil bulk tank
- Cryogenic tank
- Hazardous chemical tank
- Waste oil industry

BENEFITS

- Status of legacy tanks
- Optimization of tours
- Geolocation of tanks
- Calculation and prediction of autonomy
- Volume calculation of tanks
- Reduce logistic costs
- Avoid emergency interventions



Example: Water Level



Fault Detection

Applications:

Detect in real time the faults and malfunctions of your equipment. Save time and improve the security of your facilities.

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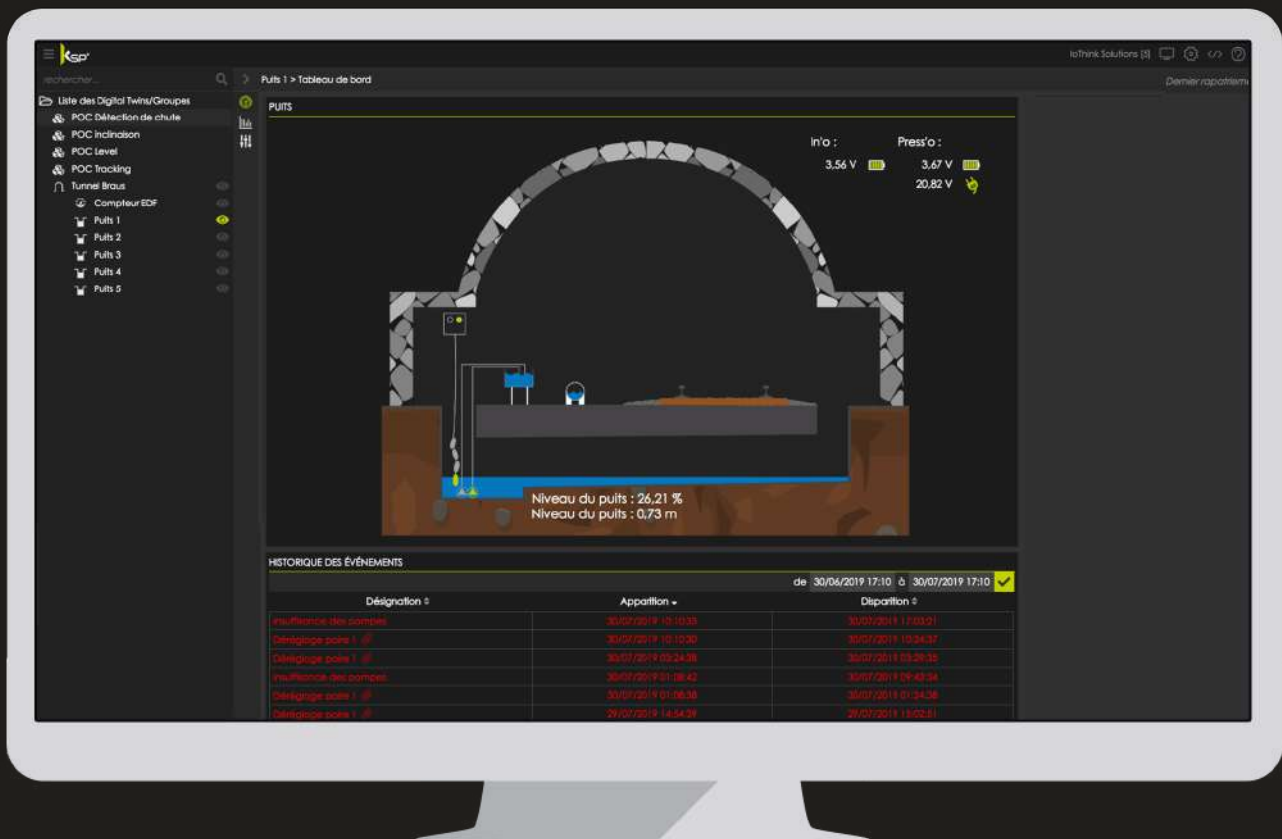
TARGETS

- Power generators
- HVAC machines
- Pumps
- Submersible pumps

BENEFITS

- Real-time status of a fleet of equipment
- Faults detection
- Quick intervention on site
- On-call management
- Increase the machine availability rate
- Geolocation of equipment

Example: Submersion Detection



SMART RETAIL

Examples of use cases



Make IoT Simple

Smart Retail

Cold Chain



Applications:

The cold chain involves the transportation of temperature sensitive products along a supply chain.



TARGETS

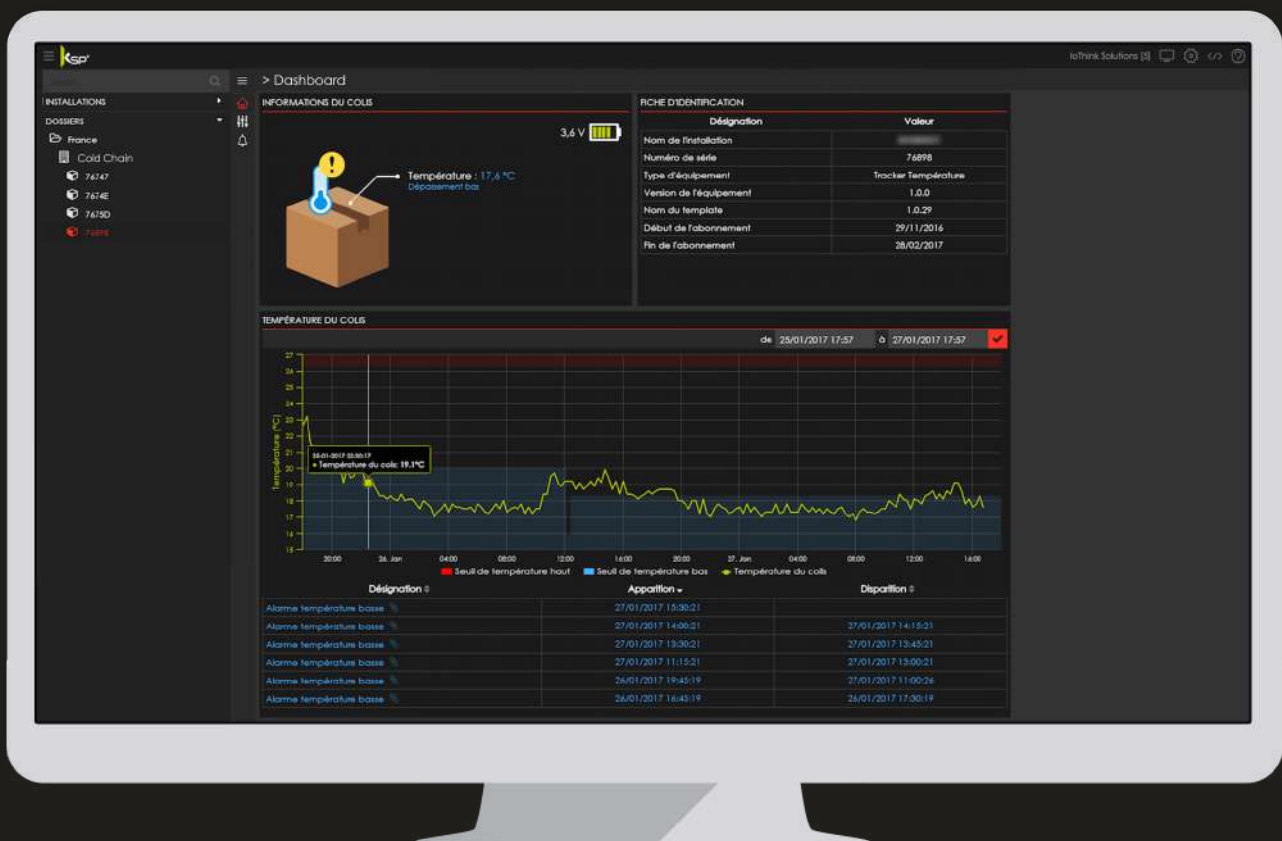
- Refrigerated packages
- Refrigerated trucks
- Carriers

BENEFITS

- Regulatory records
- Automated reports
- Traceability of temperatures
- Overrun alerts temperature
- Limitation of loss
- Fast intervention
- Real time geolocation



Example: Supply Chain



Smart Retail

Cold Room



Applications:

Monitor with accuracy the temperature and operation of your cold rooms for your food products and meet sanitary requirements.



TARGETS

- Restaurants
- Cities
- Butchers
- Florists
- Hotels
- Ice creams
- Pharmaceutical industries
- Cosmetics

BENEFITS

- Regulatory records
- Automated reports
- Traceability of temperatures
- Overrun alerts temperature
- Limitation of loss
- Door opening detection
- Fast intervention



Example: Restaurant Cold Room



Fridge

Applications:

Improve the efficiency of your fridge, remotely control your equipment and detect faults or failures in real time.

3G



TARGETS

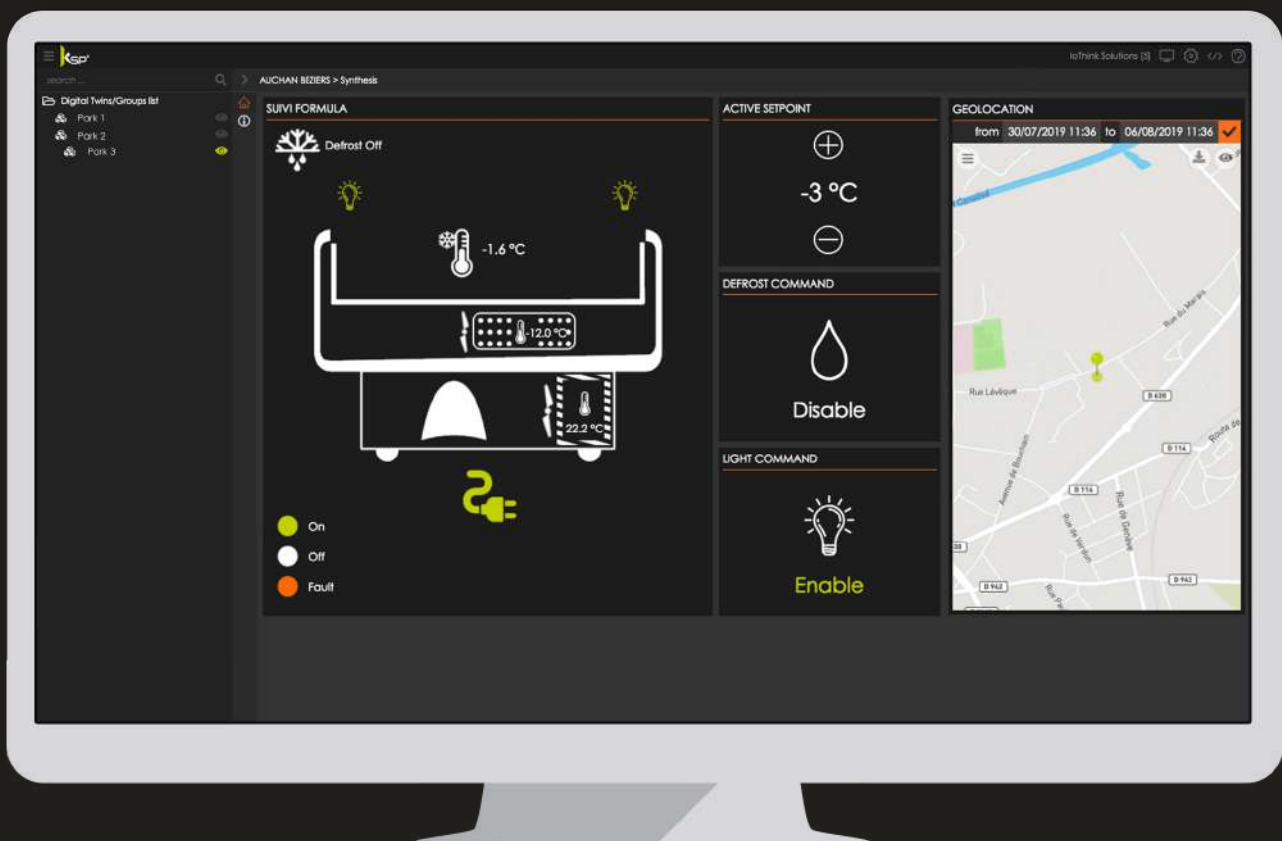
- Supermarkets, Hypermarkets
- Butchers
- Fishmongers
- Ice creams

BENEFITS

- Regulatory records
- Automated reports
- Traceability of temperatures
- Overrun alerts temperature
- Limitation of loss
- Fast intervention
- Real time geolocation



Example: Supermarket Fridge



Faults Detection

Applications:

Be alerted in real time in case of failure, malfunction of your installation. Save time and efficiency in your maintenance.

3G



TARGETS

- Supermarkets, Hypermarkets
- Butchers
- Fishmongers

BENEFITS

- Real-time status of your fleet
- Faults detection
- Quick intervention on site
- On-call management
- Increased machine lifetime
- Increase the availability rate of the machine
- Geolocation of equipment

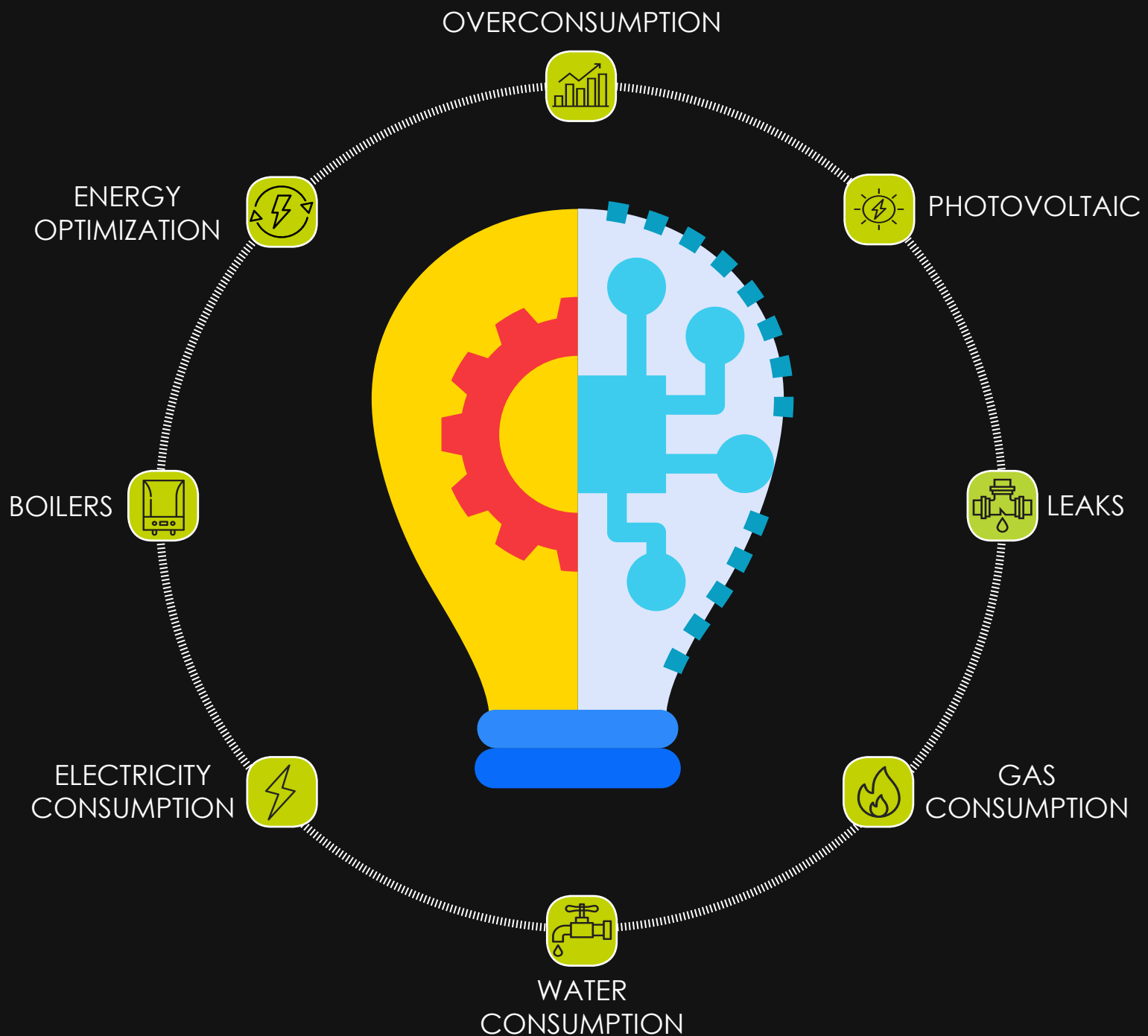


Example: Operation Check



SMART ENERGY

Examples of use cases



Make IoT Simple

Smart Energy

Photovoltaic



Applications:

Photovoltaic power generation is a global stake for the ecology and saving of electrical energy. Manage your energy production and save money.



TARGETS

- Buildings
- Property managers
- Facility managers
- Industries
- Cities

BENEFITS

- Production automatic recording
- Faults detection
- Diagnosis of breakdowns
- Revenue optimization
- Avoid on-site visits
- Manage a fleet of facilities



Example: PV Energy Production



Main Low Voltage Panel



Applications:

Protect and secure your electrical installation, follow your consumption in real-time according to your usages and detect damages or faults.



TARGETS

- Buildings
- Property managers
- Facility managers
- Industries
- Cities

BENEFITS

- Production automatic recording
- Consumption by tariff slots
- Consumer offloading
- Reduction of penalties
- Failure detection, power outages
- Manage fleet of legacy counters

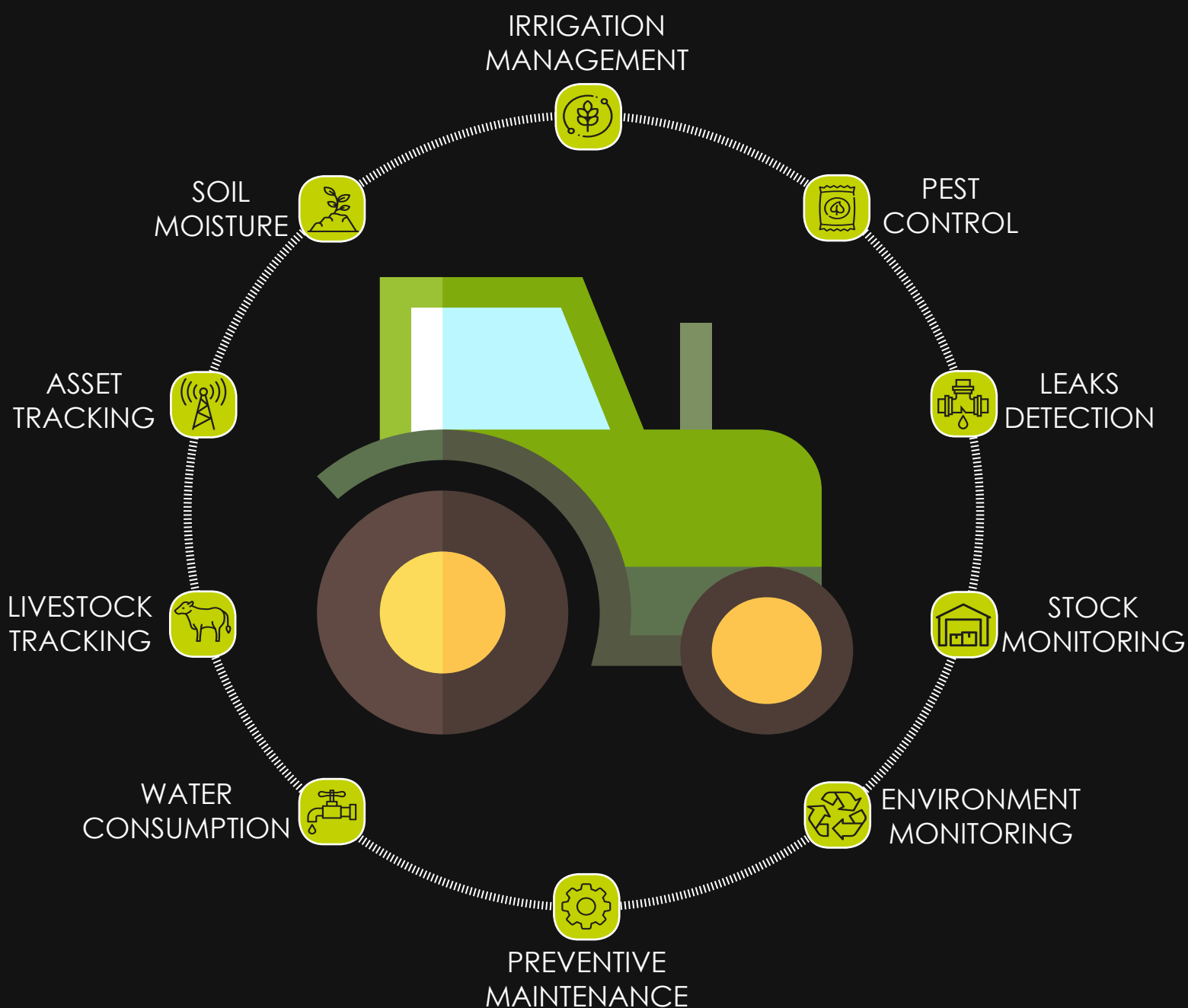


Example: Electrical Consumption



SMART AGRICULTURE

Examples of use cases



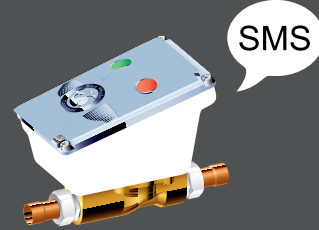
*Make **IoT** Simple*

Smart Agriculture

Irrigation

Applications:

Real-time supervision of the operation of your irrigation network. Program your irrigation cycles and remotely control.



TARGETS

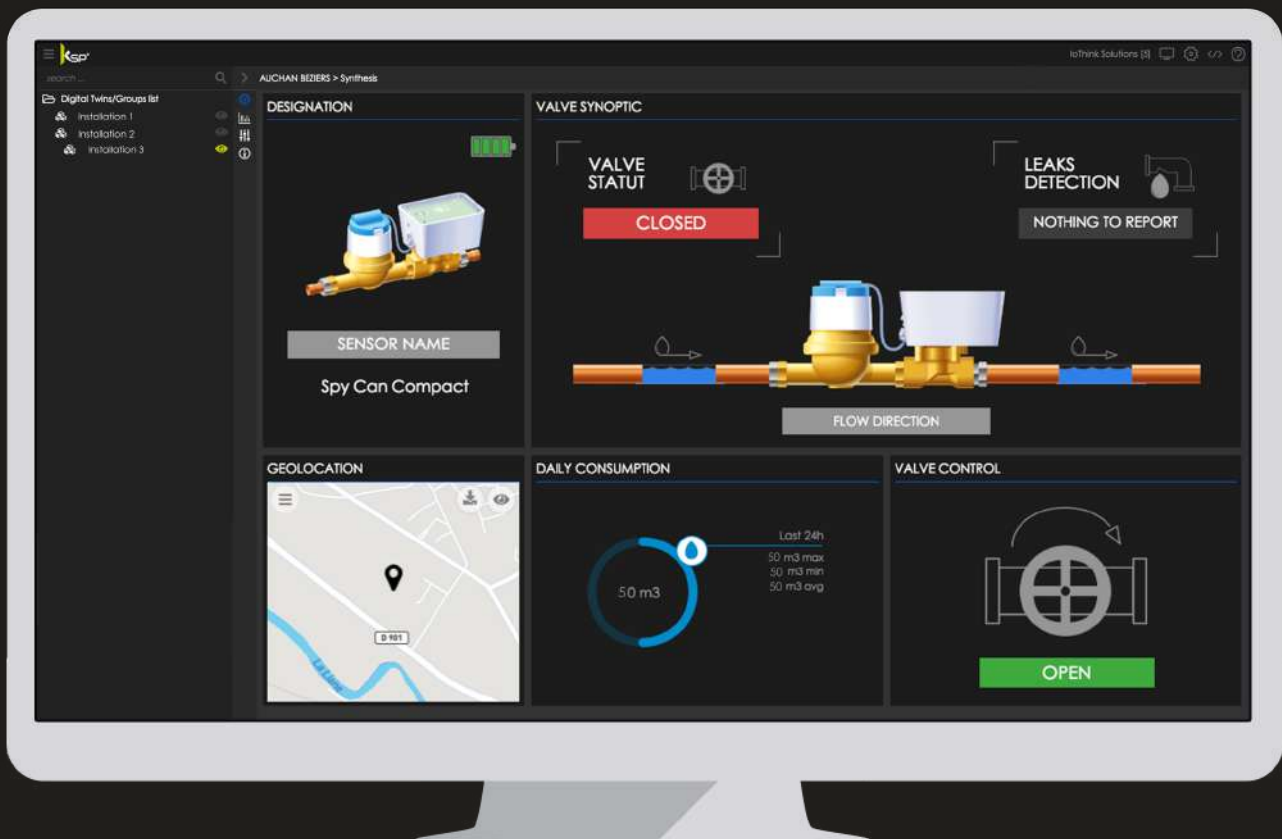
- Agricultural parcels
- Parcs
- Gardens
- Fountains

BENEFITS

- Hourly schedule
- Watering by area
- Leak detection
- Water saving
- Coupling with humidity sensor, water meter



Example: Agricultural Parcel



Smart Agriculture

Pest Control

Applications:

Limit the risk of pest intrusion. Set up control points and be alerted in case of pest trapped.

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TARGETS

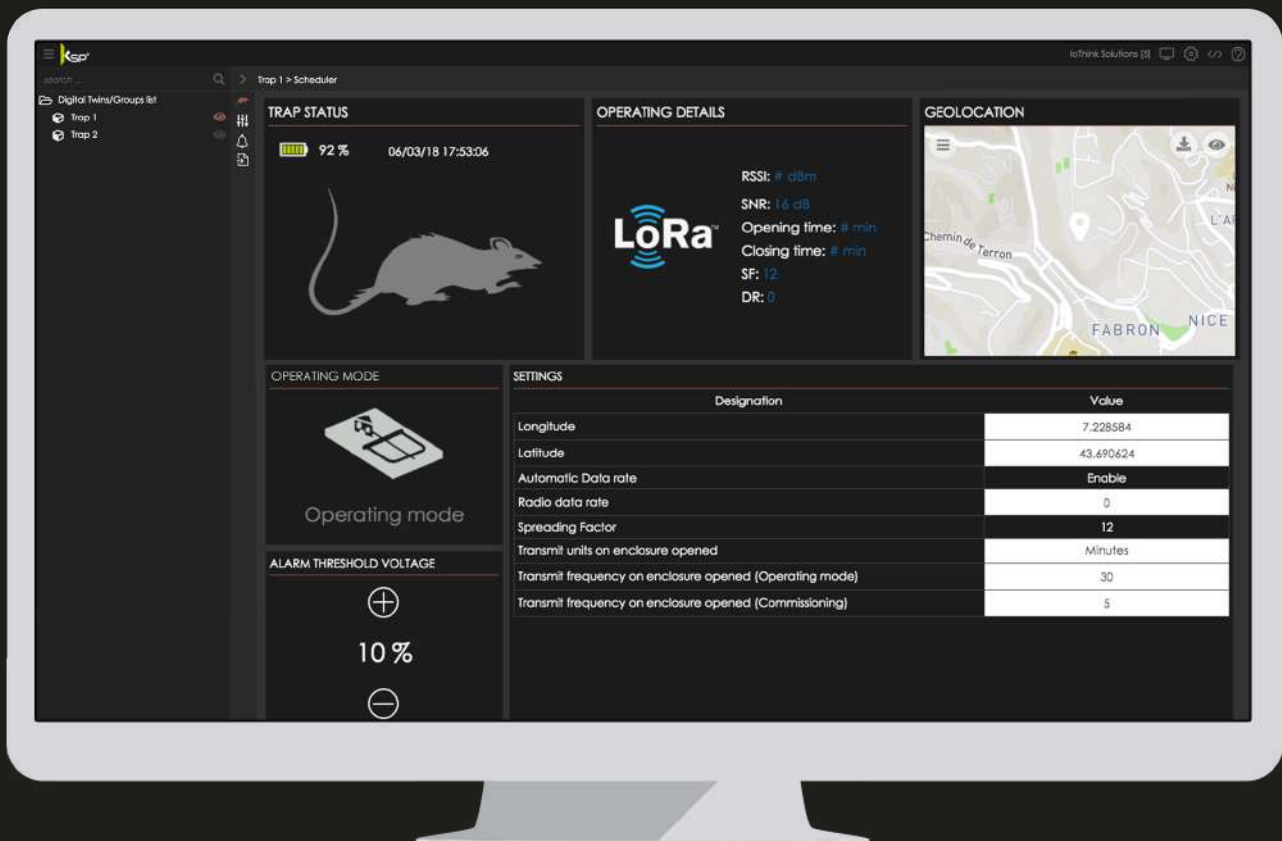
- Warehouses
- Cities
- Attics

BENEFITS

- Real-time status of traps
- Alerts if harmful trapped
- Geolocation of traps
- Reduction of the workforce



Example: Pest control



Smart Agriculture

Soil Moisture

Applications:

Remotely maintain plant quality and health with smart integrated irrigation systems.

LoRaWAN



TARGETS

- Agricultural parcels
- Parcs
- Gardens

BENEFITS

- Real-time status of zones
- Water saving
- Geolocation
- Optimization of irrigation tours



Example: Agricultural Soil



Smart Agriculture

Stocks Monitoring

Applications:

Remotely monitor and manage your storage of agricultural products.

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TARGETS

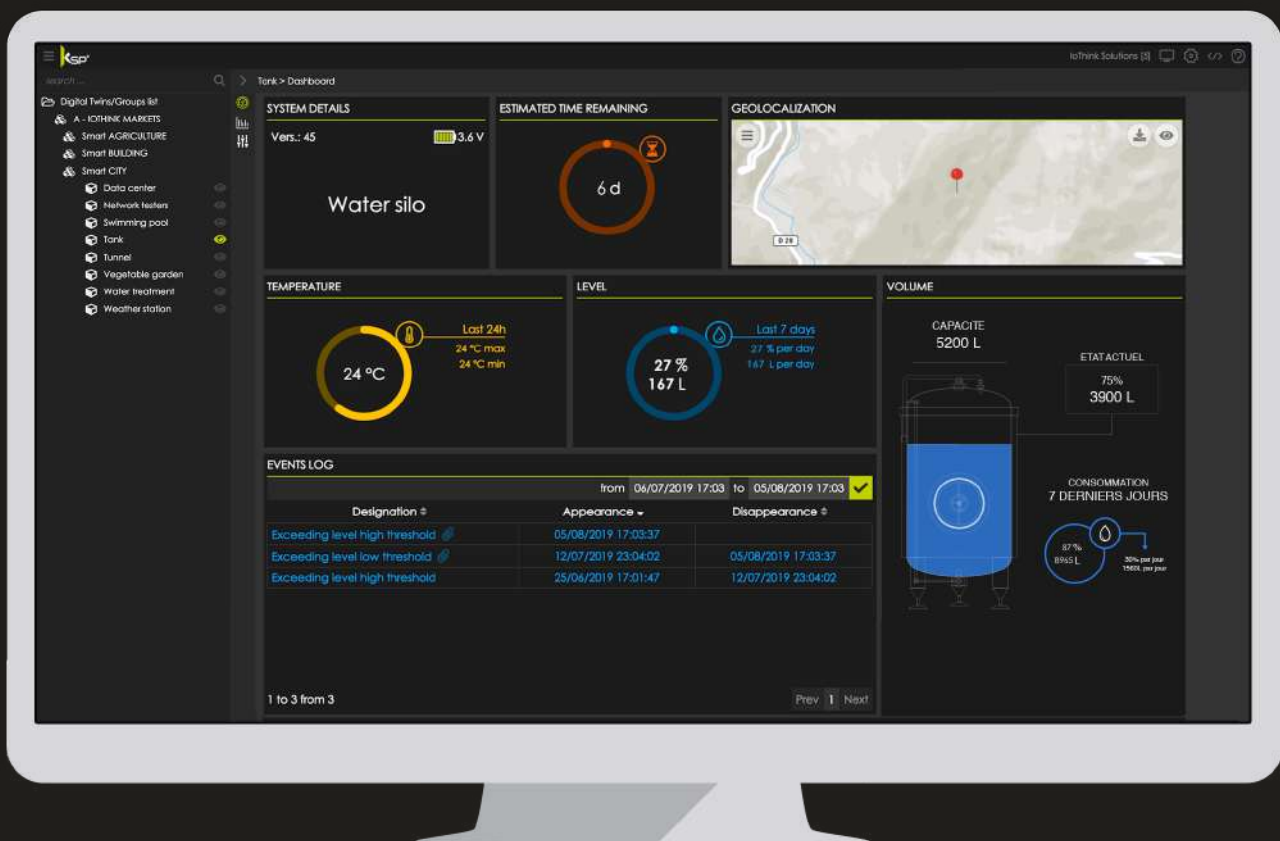
- Agricultural parcels
- Parcs
- Gardens

BENEFITS

- Real-time status of your fleet
- Calculation and prediction of autonomy
- Volume calculation of any type of tank
- Avoid breaks
- Robbery Detection



Example: Silo Monitoring





Make IoT Simple

**Are you looking
for another use
case?**



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