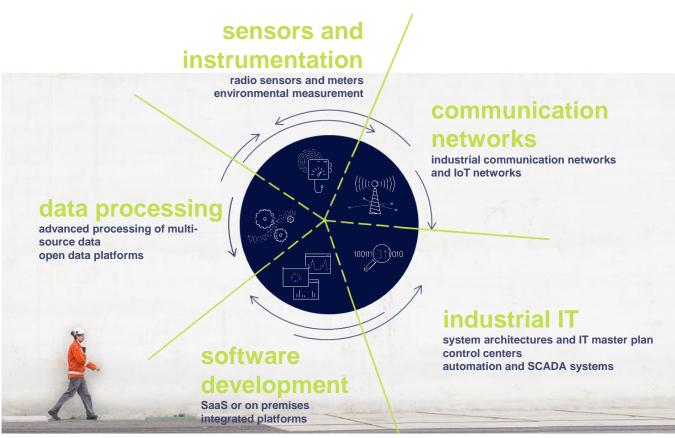


key expertises

we manage the complete value chain, from connected devices to digital solutions design, communication networks and mass data processing.





SUEZ Smart Solutions

Key figures

2009

year of creation of SUEZ Smart Solutions, a wholly-owned subsidiary of the Suez Group

300

engineers and experts in the fields of environment, real-time information systems and data processing

150M€

turnover worldwide in 2019

24

countries benefiting from our services

€10M

annual investments for R&D and innovation

1,000

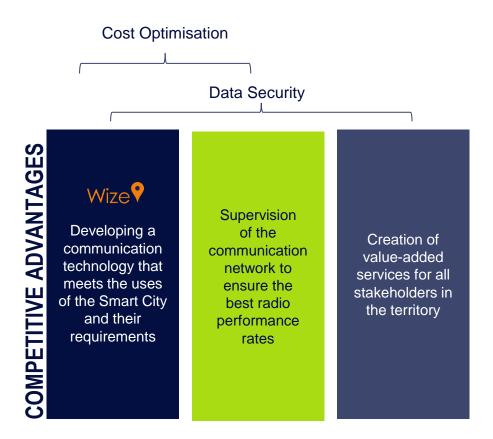
real-time platforms deployed for smart water management 4,5M

smart meters and sensors operated for utilities and cities





Digital services resulting from the processing of data sent by connected objects





Competitive advantages ON'connect™ The choice of the communication technology



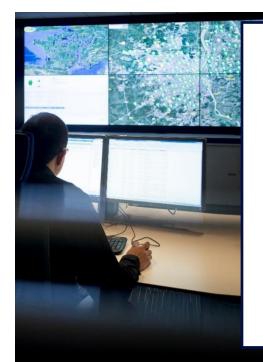
| Radio performance >90 % | Long-range radio frequency Specific to indoor & deep-indoor |
|---|---|
| Optimized TCO | Minimized Infrastructure (without repeater) |
| Sustainability & Reliability | 7 million connected objects of which 4.5 operated by SUEZ Guaranteed until 2042 |
| National coverage of the French territory | available on the entire country from 2022 |
| International development | Licence free in Europe CEN European Standard |



Monitoring the radio performance

From our Smart Operation Centers, SUEZ operators monitor Wize communication networks:

- Monitor daily the proper functioning of transmitters, concentrators, storage servers, the telecom transmission chain, etc.
- Ensure remote operations on the transmitters and concentrators (software updates, configuration, etc.).
- Guarantee to their customers the availability of reliable and high-performance data, 24 hours a day.
- Assist operators in the use and analysis of remote reading or monitoring solutions for the water network (leak detection, abnormal consumption, etc.).



Wize₹

2

Control center (Barcelona, Paris)

4.5 million

Connected meters

+4000

Supervised concentrators

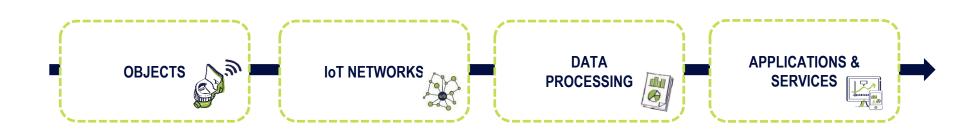
300 million

Data processed per day



SUEZ becomes an IoT player with expertise in the entire data chain

From the connected object to the digital tools





from manual reading to communicating meters

Manual reading



1 to 2 readings per year A meter reader is required billing based on estimates



- Invoicing not transparent
- No asset management
- Required travel
- · Tedious leak detection

Mobile reading devices



Punctual reading (~ 4 times a year)
A vehicle is required / no disturbance
billing based on estimates



- Data loss
- Required travel
- Permanent emission
- No asset management
- Tedious leak detection
- No associated services

\ connect

Smart Meters



"Remote reading"
Remote multi-daily reading,
automatic, sending frequency
configurable from 1 to 8 times a day



The remote reading that does more than billing!

Remote reading of metering data

Eco-consumption service for households and businesses

Remote control of a facility's water supply

Optimizing the environmental performance of buildings

ON'CONNECT metering

on'connect coach

on'connect" switch

ON'CONNECT

Prevention service for the senior citizens' loss of autonomy Real-time monitoring of tourist arrivals

Intelligent watering of parks and green spaces

Wize network provider offer by SUEZ

ON'CONNECT generation

ON'CONNECT tourism

ON'CONNECT spring

ON'CONNECT"





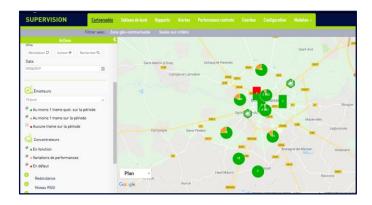


- Automation of data collection from meters (water, electricity, energy)
- Daily monitoring of consumption and alerts (breakages, consumption peaks, metering anomalies, etc.).
- Billing on the basis of the effective consumption

OBJECTS IOT NETWOR

DATA PROCESSING

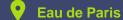
SERVICES & MOBILE APP











- In 2005, a pioneer in AMI, Eau de Paris deployed a first generation of smart water meters. The entire left bank was already using 169 MHz radio technology
- In 2017, the public utility chose SUEZ Smart Solutions and ON'connect™ metering to renew its solution of communicating meters with 169Mhz Wize technology.

94 000

smart meters

2 millions

connected households

5 and a half years

term of the contract







Water Authority of Mont de Marsan, France

- With a network efficiency of more than 90%, the Régie municipale, which serves 40,000 residents with drinking water, is exemplary in terms of the performance of its distribution network.
- In order to continue to modernise its service, the local authority wanted to improve its customer relations: billing based on actual consumption, leak detection after metering, daily monitoring on the Internet, etc.
 The company also wanted to improve the quality of its service.
- Close collaboration between SUEZ Smart Solutions and the local authority has now made it possible to achieve a rate of uptake of around 99%.

24 000

compteurs connectés

277 kilomètres

De canalisations

40-000

Habitants





III GRDF

- GRDF is the public French national gas supplier of the country
- In 2012, the utility chose 169Mhz Wize technology for its national project of smart gas meters called "Gazpar"
- SUEZ Smart Solutions designs the communication chain: supplier selection, product design (meters, concentrators), definition of the communication protocol, tests.
- In 2017, GRDF is one of the founding member of the Wize Alliance

11 millions

of smart gas meters in 2023 (4M already deployed)

2042

Durability of the technology ensured







- The public-private utility Aigües de Barcelona specialises in the management of the entire water cycle.
- It provides water supply to nearly 3 million people, offering the 23 municipalities in the Barcelona metropolitan region a customer oriented service, focusing on excellence in service delivery and commitment to innovation
- From 2015 onwards, the utility has decided to gradually deploy AMI for its 1.5M water meters fleet

500 000

smart meters already deployed

3 millions

connected households







- In 2010, facing water resource scarcity and demand management the Water Services Corporation, Malta's' public utility for water management chose ON'connect™ metering
- Objectives of better conserving and accurately managing the island nation's limited water resources, offering new services to customers while encouraging a responsible behavior towards water consumption.

430 000 inhabitants

+ 1.8 millions

of tourists per year

250 000

smart water meters



ON'connect™ to

save on your water and energy bills and reduce your carbon footprint

ON'CONNECT™

- Customized water consumption reports
- Leak and overconsumption alerts
- Practical tips for saving water and energy

* ON'connect™ coach adapts to professionals in the region.

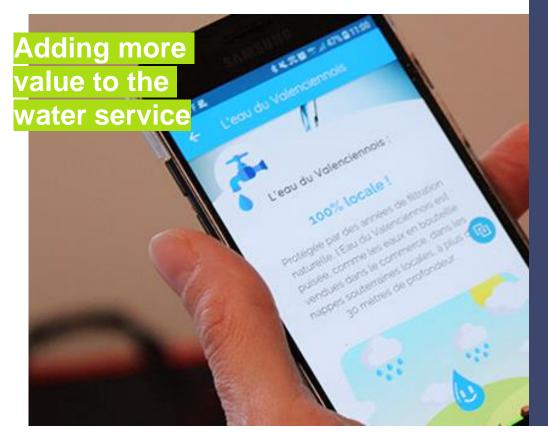
JECTS IOT NETWOR

DATA PROCESSING

SERVICES & MOBILE APP









- Equipped since March 2019 with smart meters, the public water syndicate wants to increase transparency to its users.
- An application called Coach Cons'eau has been developed to share information on the quality of the distributed water.
- Making water saving "a collective challenge", ON'connect™ coach's reports and personalized advices are integrated into the mobile application.

25 municipalities

2 million

equipped households



ON'connect™ to Monitor the water supply remotely

ON'CONNECT" switch

- Consumption monitoring by site
- Programming the opening and closing of valves
- Leak alarms and automatic shutdown of the water supply

OBJECTS IOT

DATA PROCESSING

SERVICES & MOBILE APP









Facilities (train stations, schools, etc.)

- Installations carried out at 10 stations, 1 camp and 10 high schools
- Pay back in less than a year thanks to the detection and repair of water leaks

ROI in less than a year On all 21 sites

148 leaks detected

Of which 18 major leaks

30 %

Saving on water invoices



ON'connect™ to improve the environmental performance of buildings

ON'CONNECT fluids

- Centralization of water, gas and electricity consumption data
- Customizable and configurable dashboards and data analysis indicators
- Alerts at different levels to prioritize actions
- + Integration of other additional data
- Installation of connected devices

OBJECTS IoT NETWORKS

DATA PROCESSING

SERVICES & MOBILE APP





Monitoring water consumption on the 471 km of the motorway network



ESCOTA (Vinci)



- VINCI Autoroutes management, like many companies, must improve their environmental performance (reduction of water and energy consumption, reduction of CO2 emissions, selective sorting and recycling of waste, etc.).
- In order to meet its environmental commitments, ESCOTA, a Vinci Group company, has chosen ON'connect™ pro to manage its consumption on its entire road network.

200 sites

equipped with communicating objects

150.000€

Savings target to be achieved on the annual water bill

44 users

on a 100% Saas secure platform



on'connect" spring

- Monitoring of daily and monthly water consumption per watering station
- Adapt automatic watering according to humidity and weather forecasts
- Detect water leaks and reduce watering consumption
- Facilitating the work of local teams

IoT NETWORKS OBJECTS

SERVICES & MOBILE APP











Angers Loire Métropole

- Angers, with 100m2 of green space per inhabitant within the city walls. The preservation of this heritage is at the heart of the challenges of the Smart City project launched in 2019.
- System Won by the consortium led by ENGIE, SUEZ offers an anticipated, differentiated and centralised approach to public watering.

30%

Goal of reducing water consumption for irrigation purposes

400

Connected objects to deploy



ON'connect™ to

Support the well-being of seniors

ON'CONNECT generation

- Preventive monitoring of daily consumption habits
- Alerts (no consumption, repeated night consumption, etc.)
- Mobile Apps for family and friends

OBJECTS | Iot Networks | Data Processing | Services & Mobile App







Nursing Home Saint-Jean d'Angély in Nice (French Riviera)

- To improve the support of its residents support, the community center of Nice chose ON'connect™ generation in 2017.
- The health care team has objective data that enables them to identify needs and therefore improve the services provided to residents.

22 Equipped Accomodation

1 online plateform

Consumption monitoring

Indicators related to the autonomy

Movement, transfers, night consumption, change in consumption habits



OBJECTS

T NETWORKS

DATA PROCESSING

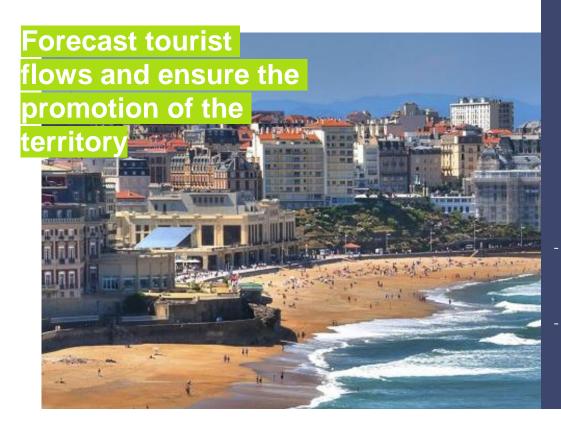
SERVICES & MOBILE APP

ON'CONNect*

- Real-time monitoring of the number of visitors
- Estimate revenues according to the periods of the year
- Forecast the level of vistor attendance









- In 2017, the city of Biarritz deploys the ON'connect™ tourism offer to identify the factors that drive traffic to its territory (weather, tides, events, holidays, etc.).
- The tool differentiates between vacant and occupied accommodations through water consumption.
- Informed, the city knows its actual attendance and can estimate its associated revenues for a season.

21,000 smart meters

installed since 2014

1 web platform

real-time management and anticipation



OBJECTS

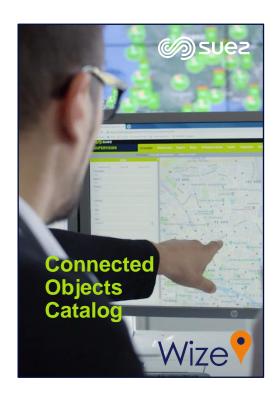
IoT NETWORKS

DATA PROCESSING

SERVICES & MOBILE APP

ON'CONNECT

- Having a dedicated and secure IoT network
- Have the IoT network supervised by a third party
- Receive raw data







REGAZ, Bordeaux Métropole

- Following GRDF, REGAZ has decided to launch the generalisation of remote meter reading based on Wize technology from 2019.
- SUEZ has been entrusted with the supply of equipment to build the connectivity network as well as the implementation of a bi-directional communication platform allowing interconnection with the Customer Information System.
- O Today, the metropolis has its Wize network, which it can use for other purposes

230,000

Communicating meters (deployment in progress over 7 years)

100

Gateway deployment in progress over 2 ½ years)

5 years

Application maintenance of the connectivity network and communication platform



