Terideal

IDENTITY CARD

Activity
Watering and fountains

Date of creation
1977

Headcount
Water Division: 150 people - Sales: €20M
Teridéal : 2000 people - Turnover : 300M€.

Location
France

SCOPE

▸ + 80 items
▸ + 30 user customers

GOALS

▸ Quantify water consumption and dewatering measures for vegetated soils

▸ Be proactive about watering system malfunctions

▸ Propose new services to complete the offer

RESULTS

▸ A saving of 10% to 30%
▸ Real-time monitoring of indicators

« With a very simple implementation and a modest cost, we were able to deploy the solution to about 20 customers within 6 months. »

How did the IoT solution deployed by Synox help meet the challenges of improvement and service delivery at Terideal?

THE CONTEXT

Terideal's mission is to contribute to whatever is necessary to make a city work and liveable. The company brings together trades from a wide range of sectors: urban development, watering, fountains, pumping and lifting, maintenance of landscaped areas, etc.

In the watering sector, the specialists of the Water division have focused on the integration of connected devices for measuring data in line with the expectations of the profession (increased productivity and reduced costs)...

At Terideal, where real teamwork takes place, each member is constantly contributing to the improvement of work methods. Raphaël Karm, Technical Manager of the Watering/Fountain Department, describes the installation of remote water meter reading and soil moisture measurement equipment. These connected objects allow communities, sports field managers or any other owner of vegetated surfaces to measure and optimize the consumption of water resources for watering.

The watering sector has seen relatively little change in recent years and results are often based on empirical methods. And even if these methods have always demonstrated a good reliability, the implementation of connected devices represents an efficient way to monitor consumption in real time enriched with additional information. This is an opportunity to measure variables that were not previously taken into account.

The objective for Terideal is to make this sector evolve by validating quantitatively the results, previously based on the feeling. But also by providing new services with the measurement of new variables.

THE IMPLEMENTATION

It is following several customer requests that the project was born. Indeed, previously, Terideal's innovation strategy was rather focused on large projects such as automation on pumping stations. However, their very specific side did not convince in the end.

After studying several specialized solutions in the field of watering, Raphaël Karm chose to turn to more open and scalable tools allowing to simply set up a network of connected devices that are secure and personalized: SoM2M#IoT, Device Management and SoDATA#Viz, Data Management. Terideal has already chosen Synox as a supplier of M2M SIM cards for its irrigation controllers and wants to continue to provide customers with their expertise while relying on reliable and adaptable technical solutions.

When the platforms are set up, the test run quickly proves positive. A simple configuration of the devices in SoM2M#IoT is enough to see the data returned in SoDATA#Viz. The next step is then to prepare the dashboards to be proposed to the end customers. Thus, thanks to the tools provided by Synox, Terideal focuses on its service offer around watering and in 6 months, the product is validated and already works for about twenty customers

What is interesting about the Synox solution is that it can be adapted independently to the needs of our customers, and perhaps even later to other sectors of activity.

Raphaël KARM, Technical manager

SoDATA#Viz - Monitoring dashboard

Humidity sensor Sensoterra

ABOUT TERIDEAL

Born from the will of the Segex Group companies to adopt a common brand, Terideal has been distinguishing itself for more than 50 years in the land development market.

With expertise in nearly 40 different trades, Terideal is recognized for its ability to design, build and maintain complex projects.

Terideal participates in a more pleasant, healthier and more economical living environment, for the benefit of residents and nature. Terideal has made its social responsibility the backbone of its development.
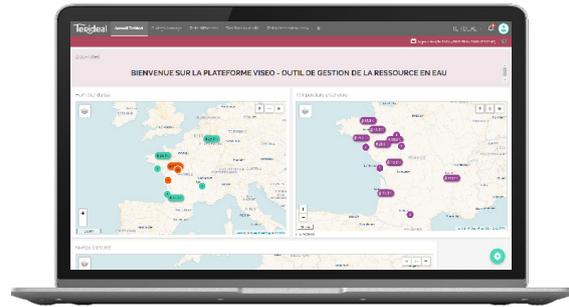
ABOUT SYNOX

As an integrator and publisher of IoT platforms, Synox assists companies and communities wishing to implement their IoT projects easily and securely, regardless of the objects and technology used.

Our mission is to enable companies and communities to accelerate their digital transformation by leveraging the potential of IoT, with agility and in a logic of sustainable development.

MORE INFORMATION

▸ Sign up for a web demo
▸ Ask for our use cases catalog
▸ Contact us

THE RESULTS

Remote reading of water meters alone is a great source of data for resource management and optimization. Terideal has coupled it with other communicating sensors: soil moisture sensors or rain gauges. Thanks to these measured data, crossed with the weather data, the level of precision of the irrigation of a soil is extremely high. The development also lies in the fact that the measurement is continuous, so a soil drying profile can be drawn up. And with this data, Terideal experts can make watering recommendations based on specific customer needs.

Interoperability and customization of interfaces have allowed experts to focus on serving customers according to their specific needs. Indeed, a sports field on which a concert is played will not have the same requirements as a golf course or a community lawn. However, it is still necessary to cross-reference the sanitary state of the grass or the feelings of the soccer team with the data collected by the connected devices.

The benefits are not only in the analysis of the data but also in the operation of these irrigation systems. In fact, a significant time saving is measured since it is possible to know in real time the operating status of the watering infrastructure, which was not the case with conventional watering systems. Moreover, with the particularities of connected devices, such as the low cost compared to the economic benefits, the simplicity of installation, and the wireless connectivity, the implementation is really facilitated.

Water savings are estimated at **10 to 30%**. This result is obtained thanks to the implementation of connected equipments, the piloting and the analysis of data from SoM2M#IoT and SoDATA#Viz but also thanks to the human factor which becomes vigilant to consumption as soon as it is measured precisely.

> **The Synox team listens to evolution requests and takes them into account in product development. Today's interfaces are complete and have evolved considerably since we started using the platforms over a year ago.**
>
> **Raphaël KARM, Technical manager**