



IDENTITY CARD



Activity

Sale and maintenance of industrial equipments

Creation date

1989

Revenues

€4.5 millions

Headcount

25 people

Location

Chavanod, Haute-Savoie (74)

GOALS

- ▶ To optimize the maintenance of industrial equipments.
- ▶ To anticipate interventions to prevent breakdowns and emergency requests.
- ▶ To ensure an optimal service quality.

RESULTS

- ▶ Significant decrease of production shutdowns and intervention plannings optimization
- ▶ Less planned obsolescence by extending industrial equipments lifecycle (CSR policy)
- ▶ Provision of data and real-time information concerning the device park state with anticipated alerting on default risks

Maintenance 4.0: IoT and analytics for operational performance

Pursuing a "zero breakdown" target for his customers, **Pierre Arboireau, President of Savoie Transmissions**, wanted to innovate and to propose a solution allowing to carry out predictive maintenance. After many researches and to respect cost constraints, he promptly studied IoT technologies and called on Synox, IoT platform editor, to support him in this project started in 2007.

THE BACKGROUND

The Savoie transmissions company sells and maintains technical solutions in the transmission area (mechanical, electromechanical, pneumatic...).

Its maintenance workshop is often requested in emergency by customers who face a production shutdowns because of a breakdown. Pierre Arboireau notices the poor condition of the engines and broken down machines. "Most of the problems don't happen in 5 minutes, we thought that putting a sensor on the machine could be a solution to ensure the monitoring and to anticipate that kind of situation."

"We did a first test and won the innovation prize in 2016, but this solution was too expensive." The research of available technologies in this sector lead Pierre Arboireau to Internet of Things and to meet Synox.

The project started in 2017 with a test period of a sensor recommended by Jérôme Fenwick, CTO of Synox. The implementation of SoM2M#IoT platforms for management of devices and connectivity and SoDATA#Viz platform for data visualization allowed to improve this mechanism. After many PoC (Proof of Concept) - sensor installation on machine tools and platform configurations - with several customers, the complete solution is available since the beginning of 2019.

THE SOLUTION

The solution is used by a dozen of customers, which represents today a little more than 50 sensors. Internally, two people use SoM2M#IoT platform, dedicated to device management. It allows to oversee, in a centralized way, the device park and the connectivity. It's used to carry out the sensor configuration - Matakis dongles - and the replacement when the battery is empty. Collected data are moved towards the SoDATA#Viz platform implemented for customers or towards their monitoring tool thanks to the MQTT protocol.



We want to give ourselves the means to avoid breakdowns and reduce our customers stress concerning the production shutdowns. After some researches, IoT quickly occurred as the respond to this need. The Synox's collaborative approach seemed the good for me and convinced me. Their ability to listen and hyper responsiveness allowed us to make the project progress successfully.

Pierre ARBOIREAU, President of Savoie Transmissions





ABOUT SAVOIE TRANSMISSIONS

Since 1989, SAVOIE TRANSMISSIONS is the reference distributor and importator in terms of mechanical, eletromechanical and electronic transmissions. As an expert in each of these sectors, it makes their customer satisfaction its top priority.

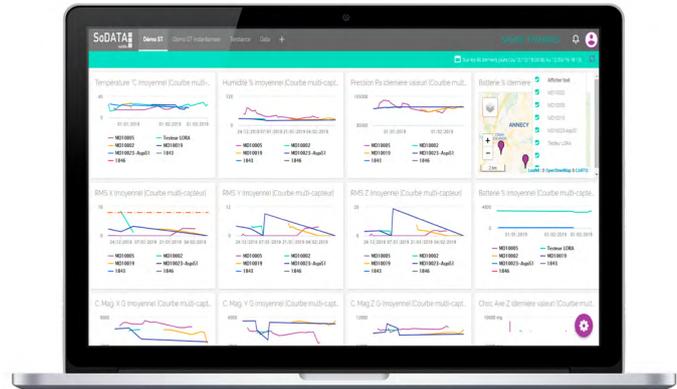
Thanks to its responsiveness, its proximity, its adapted range with more than 300 suppliers and thousands of product references, its optimized inventory management and a repair service, it brings a quick solution to its partners requirements.

ABOUT SYNOX

As an editor and integrator of IoT platforms, Synox supports companies and communities wishing to easily and safely implement their IoT project whatever the objects and technologies used.

Its mission: allowing companies and communities to transform by taking advantage of IoT emerging technology potential, in complete autonomy, within a sustainable development approach.

- ▶ [Register for a web demo](#)
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SoDATA#Viz - Tableau de bord de suivi



Dongle Mataki

The visualization platform provides customizable dashboards fed in real time to follow different measures: vibrations, shocks, temperature, hygrometry... and especially to create alerts threshold in case of measure deviations, sign of failure. When an alert is generated, the technicians know that they have to operate to check the equipment and prevent the breakdown. "For us, the true added value is to provide to our customers the dongles and the platform, a complete solution which bring to them a global vision of their machine states.", specifies Pierre Arboireau.

THE RESULTS

A reliable and easy to use solution, and controlled costs.

The ease of use of the platform is approved by customers, one to 2 people were trained with each of them. Pierre Arboireau "notices that once the configuration is done with the different thresholds settings, they completely trust the alert generation automation."

Thanks to the low cost of the sensor and the ease of use of Synox IoT platforms, Savoie Transmissions is waiting for a pay back within a year for this turnkey solution. The IoT allowed the company to add to its product range an innovative and high value service for its customers.



Synox helped us and linked us with industrials having catalog objects that we had to customize. We developed the internal software to optimally exploit the object and adapt it to its industrial use. In this development stage, Synox made the platform available to carry out tests and to create a complete and robust solution.

Pierre ARBOIREAU, President of Savoie Transmissions



CONTACT

SYNOX, Immeuble Le Tucano, 836 Rue du Mas de Verchant - 34000 Montpellier

+33 4 30 00 19 10

WWW.SYNOX.IO