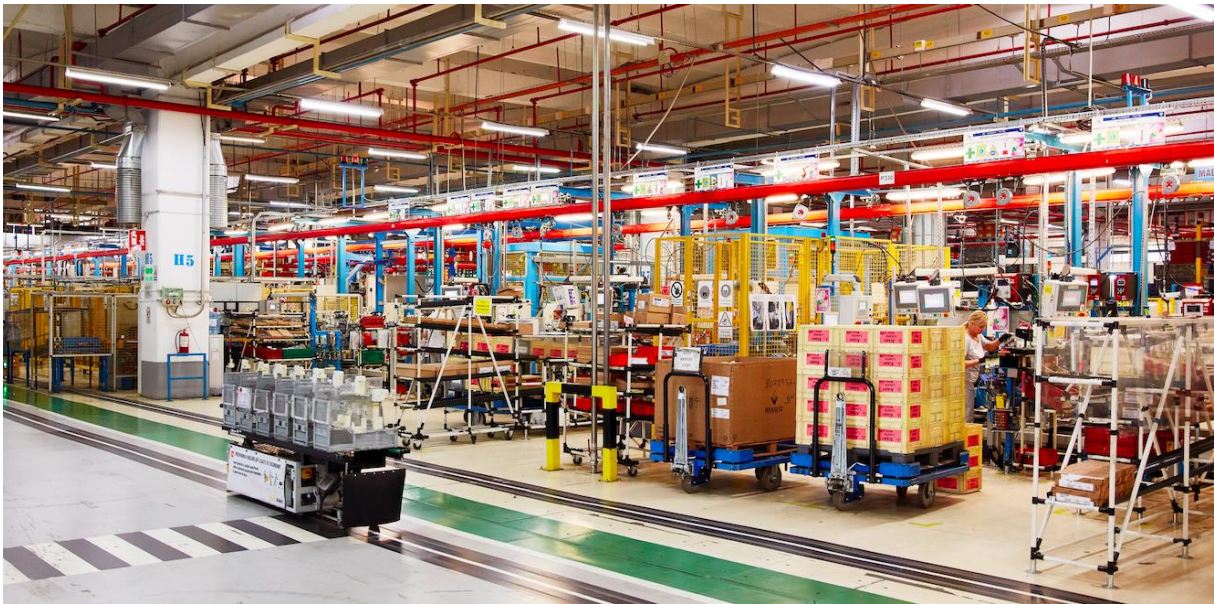


Renault Group partners with Objenious to roll out LoRa technology across its factories worldwide

Paris, 26 November 2020 – The Renault Group has enlisted Objenious and LoRa technology to connect all of its European plants and has confirmed its decision by continuing this rollout globally. The collaboration is part of the manufacturer's Industry 4.0 strategy to further accelerate its industrial system's digital transformation. This success clearly illustrates the benefits of digitising processes in the automotive sector.



Data capture: a strategic challenge for Renault

Having been digitally transforming its industrial system since 2016, it is a strategic challenge to retrieve data at each stage of the supply, production and distribution chain. To achieve this, the manufacturer has set up a global ecosystem primarily designed as a foundation for connecting factories in order to collect this data.

For over two years, Objenious has assisted the Renault Group with choosing sensors and rolling out customised LoRa network infrastructures that meet the need for traceability in supplier packaging flows through to the factory and fine-tuned management of energy at its industrial sites.

Multiple reasons for choosing LoRa technology and Objenious

Renault was won over by the benefits of LoRa technology. Outward-looking, it allows organisations to monitor sensors installed in highly mobile areas. It is also compatible with a rich ecosystem, allowing organisations to choose from a wide range of sensors that meet multiple business use cases. Its battery life, low rollout cost and ease of implementation are substantial benefits that support the manufacturer's choice.

Objenious ensured Renault had a mature offering at every level by assisting it from the consulting phase through to installation, and from the core network through to data recovery.

The IoT expert first provides geofencing functions through its antennas, which allows the data collected to be viewed [via its SPOT platform](#). Featuring an advanced security system, this fully customisable platform allows Renault experts to manage their sensor assets internationally in real time. Objenious was also involved in educating the business teams in the factories and Renault's suppliers. Its services illustrate its proficiency in rollout and product support & upgrade.



All of these strengths enabled Renault and Objenious to build a long-term collaboration. The IoT expert in France now provides managed services to the manufacturer, including supervision of the infrastructure and solutions adapted to major industrial groups' business constraints and processes. By forming a close relationship with the supply chain business unit, Objenious managed to provide customised responses while offering independent usage, scalability over time to meet current and future needs, and infrastructure maintenance management.

Bernardo Cabrera, Director of Objenious by Bouygues Telecom, says: *"This collaboration with Renault demonstrated Objenious' ability to support major industrial groups. The expertise we have gained since Objenious was founded in 2016 means we can now respond to major international players' business needs in ever-more demanding sectors, including in a European mobility context as is the case with Renault. "*

Eric Marchiol, Director of Manufacturing and Supply Chain Digital Transformation at the Renault Group, adds: *"By choosing LoRa technology, our aim is to make it the international standard for our Industry 4.0 programme, both within the Renault Group and in our ecosystem of partners. The Objenious dedicated network offering gives us an effective solution for tracking our packaging in and outside our plants. This IoT rollout is aligned with our goals to further accelerate the industrial system's transformation and successfully roll it out across the entire Group. "*



Monitoring packaging: a specific example

Packaging plays a crucial role in Renault's supply and production chain. It is specifically designed for each part and component, allowing them to be transported between the supplier plants and vehicle assembly plants. These packaging flows experience multiple disruptions, caused for example by bad weather or logistical contingencies. The potential financial losses are substantial, meaning it is crucially important for Renault to monitor packaging and improve its circulation.

Following an initial successful demonstrator in 2017/2018, Renault began rolling out the system. Several thousand packaging items fitted with sensors are already travelling between 15 Group factories that are already connected. This system allows their geographical position to be fed back every two hours and optimises the functioning of packaging loops. For example, the manufacturer observed an 80% reduction in packaging losses, along with a substantial reduction in related consequences.

This fruitful collaboration marks substantial key progress in the digitisation of the Group's supply chain. Thanks to this IoT system, Renault has an operational tool for achieving its goals:

- optimise the location of its packaging
- ensure the availability of its packaging through real-time inventory automation and improving the reliability of stocks,
- cut the cost of ownership by identifying failures and optimising the product life cycle
- improve its operational efficiency
- measure transport times
- measure the sizes of flow circulation loops
- measure supply chain efficiency

About Objenious

Objenious, a Bouygues Telecom brand dedicated to the Internet of Things, assists a full spectrum of businesses and local authorities with their digital transformation through offerings and services based on its LoRaWAN®, 2G, 3G, 4G and soon LTE-M and 5G networks. Objenious' experts help businesses to consider

and implement their IoT project, drawing on a broad ecosystem of partners to offer solutions adapted to all industry sectors, such as electronic banking, automotives, energy, security, construction, retailing, maintenance, transport and logistics.

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