

SUCCESS STORY

Asset tracking

Renault optimizes the management of its packaging chain

CLIENT NEEDS

- **Locate, detect and log** all forklift movements
- **Calculate the travel time** of the packages in the warehouse
- Optimize the packaging chain

THE ADVANTAGES

- **Easy to deploy** solution
- **Real-time** data feedback
- Environmentally **scalable infrastructure**
- Compliance with health standards for operators
- Long tag's battery life

THE RESULTS

- **Improvement in inventories accuracy**
- **Optimization** of the packaging line

ELA Innovation and IER Bolloré streamline the Renault group's equipment flows

ELA Innovation and IER Bolloré have enabled Renault to **optimize the management of its packaging line** thanks to a bi-technological indoor location solution ("DOT" Active RFID and Passive RFID). ELA Innovation brought its expertise in Active DOT RFID technology, **to locate, detect and historize** the movements of all the logistic equipment. Thanks to the latter, operators gain in time, make packaging inventories more reliable and **obtain better real-time tracking statistics**.

As integrator of the solution, IER Bolloré provided the means of capturing location information. ELA Innovation provided the necessary tags for locating equipment.

THE KEY PLAYERS



Tag
manufacturer



Integrator
Installer



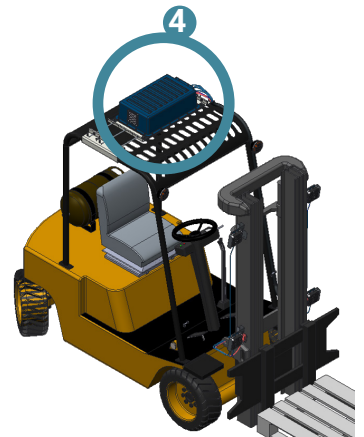
End user

«We appreciated the ease of installation and integration of the ELA tags thanks to their mounting brackets, which allow us to quickly readjust the area as needed.»

Luc Filizzola - Digital project manager - Renault

THE EQUIPMENT

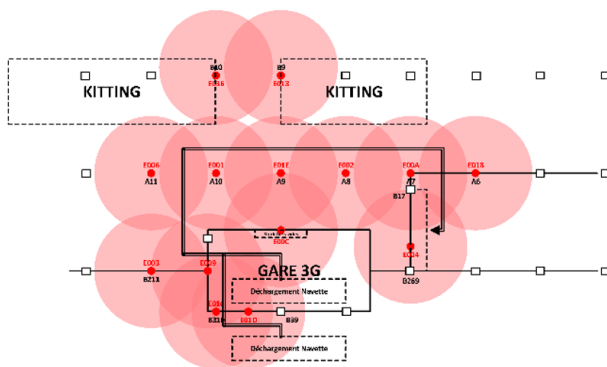
- Actif RFID Tags: PUCK DOT¹
- Tag Activator² positioned in the housing⁴ of the forklift truck
- RFID³ reader (Sciel Reader IP2) positioned in the housing⁴ of the forklift truck



THE OPERATING MODE

From a technical point of view, the solution is based on a set of Active RFID PUCK DOT and Tag Activator.

The Tag Activator **attached to the logistic equipment**, activates the PUCK DOT positioned at regular intervals in the warehouse when it enters the field of the latter. The activated PUCK DOT then captures **the magnetic field generated by the Tag Activator** and sends its **identifier and that of the Tag to the IoT platform**.



Infrastructure example

This solution makes it possible **to locate the forklift truck** in the warehouse and record its movements. The tag makes it possible to know the departure and arrival points of the logistic equipment and thus to calculate its travel time. This creates a great possibility to **optimize and automate inventories**.



For 20 years, ELA Innovation has been designing and manufacturing beacons, tags, and industrial sensors that are 100% autonomous. Based on wireless communication technologies, Bluetooth Low Energy, RFID Active and LoRa, its robust and compact products meet many industrial needs such as: indoor/outdoor people and equipment location, automatic inventory, access control, or refrigerated truck temperature monitoring.