



Success story



Indoor tracking

of pallets in logistics warehouses >>





» Santos geolocates 600 pallets thanks to the Smart Tracking solution

As a French manufacturer of electrical equipment for catering professionals (coffee places, hotels, restaurants), Santos manages a stock of over **2 500 references of spare parts**.

For this SME, which has been growing for over 65 years, inventory management is a real challenge. As part of the digitalization of its processes, Santos chose ELA Innovation and Orange Business to deploy an **IoT solution to locate over 600 pallets in its logistics warehouse**.

» The key players



Manufacturer of location beacons



Integrator of IoT solutions



Technology provider



End-user



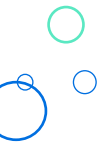
«We're very satisfied with the smart tracking solution. It works perfectly and our assemblers use it every day. It has enabled us to enter Industry 4.0 head-on.»

Isabelle Bodar, Production Manager, Santos

» The client requirements

Automate and optimize the management of a stock of 600 pallets of spare parts for:

- ✓ To simplify and speed up part search
- ✓ To guarantee compliance with business rules: First in First Out logistics
- ✓ To avoid over-ordering to make up for a lack of parts



» The equipment

- ✓ 60 Blue Anchor (1)
- ✓ 600 Blue PUCK ID+ MESH (2)
- ✓ Gateway Mesh
- ✓ Orange Smart Tracking Application



» Modus Operandi

From a technical point of view, the indoor geolocation solution is based on a **mesh network** of fixed(1) and mobile(2) beacons. The former, also known as anchors, are installed at regular intervals in the logistics warehouse, while the latter are positioned directly on the pallets to be located. The mobile **Blue PUCK ID+ Mesh** transmits signals to the various anchors, which in turn pick up all dialogues and transmit the information to the gateway.



The data is then processed and analyzed by Orange Business' **IoT Smart Tracking platform**. Operators will use smartphones positioned at the entrance to each aisle to geolocate the pallet they need to within a few meters. They will also be able to **trigger the LED light** of the beacon associated with the pallet to via the mobile application, enabling them to refine their search, particularly when the pallet is stored high up.

«Pallet search time reduced from 15min to 15sec.»

» The benefits

- ✓ Time saving
- ✓ Compliance with the FIFO standard: improved quality and traceability
- ✓ Reduced cost of buying back lost parts
- ✓ Saves storage space

» The advantages

- ✓ Easy-to-deploy wireless solution
- ✓ Easy to use by operators
- ✓ Competitive acquisition cost
- ✓ Localization to within 5m + Pick-to-light function