

Success story

» **Magnetic contact sensing**

Detection of
truck side panels »



» ELA Innovation & Electro Maintenance

secure and respond to the compliance of hydraulic tippers

In July 2020, a technical note relating to hydraulic tipper vehicles equipped with sideboards was published in the official journal **requiring manufacturers and users** of this type of vehicle **to be equipped with a hazard warning device**. As a major player in the construction sector, the NGE Group has entrusted Electro Maintenance and ELA Innovation with equipping its entire fleet of hydrolic tipper vehicles with a **side panel opening detection solution**.

» The key players



IoT sensor manufacturer



Integrator of IoT solutions



End User

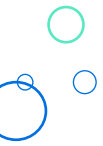


« The simplicity of installing the device allowed us to quickly secure all of the vehicles involved. »

Michel FOURNIER, Operations and Purchasing Manager, NGE

» The client requirements

- ✓ **The compliance and safety of the fleet of vehicles** with hydraulic tippers with side panel opening detection
- ✓ **A wireless solution, easy to install**



» The equipment

- ✓ 148 Blue PUCK MAG (1)
- ✓ 148 GPS boxes ATLAS Connect of Electro Maintenance (2)
- ✓ ATLAS Connect application (PC&Mobile) (3)

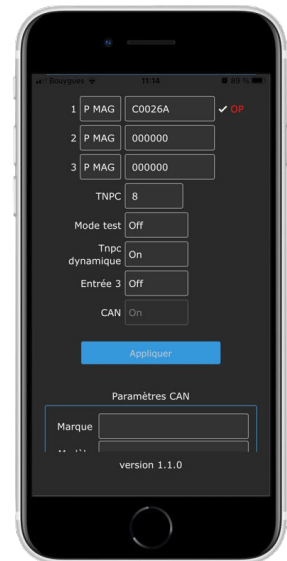


» The operating mode

From a technical point of view, the solution for detecting the opening of the sides of hydraulic dump trucks is based on an **extremely light infrastructure** made up of magnetic sensors and magnets associated with Electro Maintenance's ATLAS Connect box.



The wireless magnetic sensor is hooked on the truck and the magnet on the side panel. When the magnet and the magnetic sensor are separated by more than 2cm, **an alert is sent to the driver to warn them**, and thus lowering the chance of having an accident due to the vehicle sideboards opening. The information about the loss of magnetic contact is sent via Bluetooth Low Energy to the ATLAS Connect box, which will itself act as a gateway and send the information to the business application or PC.



» The results

- ✓ 1500 vehicles brought into compliance in 3 months
- ✓ Reduction in the accident rate

» The advantages

- ✓ Easy and quick installation
- ✓ Compact, waterproof and **robust**
- ✓ **Compatible** with the Electro Maintenance box