



SUCCESS STORY

Magnetic contact sensing
Detection of truck side panels

ELA Innovation and 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 simplicity of installing the device allowed us to quickly secure all of the vehicles vehicles involved»

Michel FOURNIER
Operations and Purchasing Manager

THE KEY PLAYERS



Tag manufacturer



Integrator and solution provider



End User

THE CLIENT NEEDS

- 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 MAG¹
- 148 GPS boxes ATLAS Connect from Electromaintenance²
- ATLAS Connect Plateform (PC & Mobile)³



1



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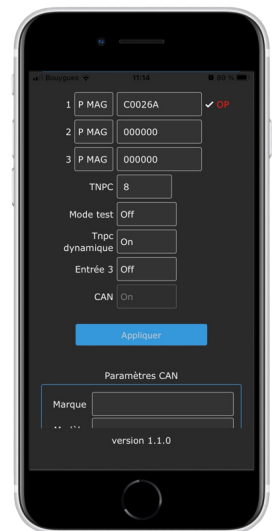
THE OPERATING MODE



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.



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THE ADVANTAGES

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

THE RESULTS

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