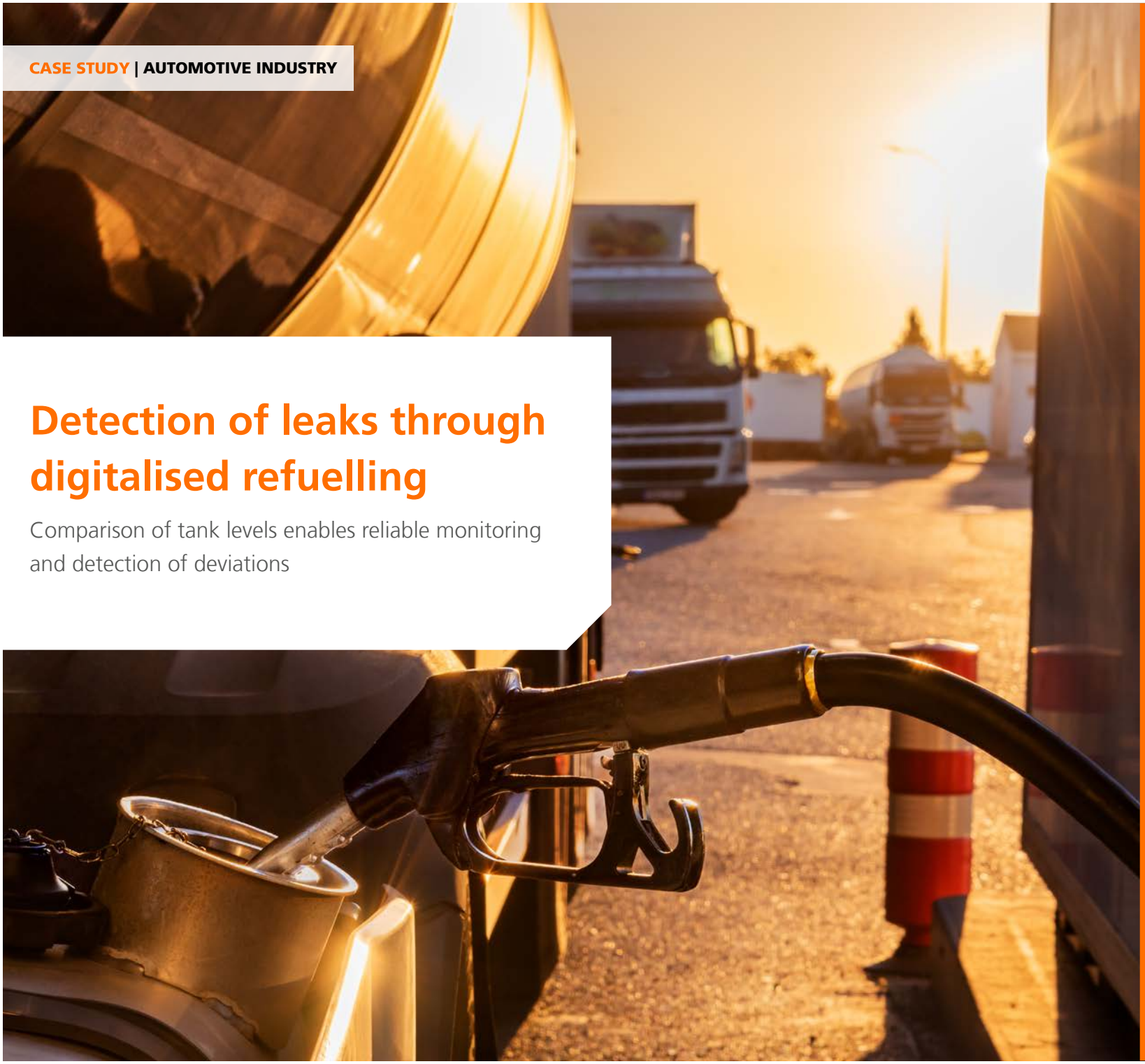

CASE STUDY | AUTOMOTIVE INDUSTRY

# Detection of leaks through digitalised refuelling

Comparison of tank levels enables reliable monitoring and detection of deviations

**Our customer:**
**Horcrisa S.A.**

Founded in 1995, the local company Horcrisa S.A. from Buenos Aires in Argentina with 200 employees is a leading supplier of high-quality concrete. The use of quality cement and quality controls in the production process ensure consistently high product quality.
The concrete is processed and transported using state-of-the-art technology, a large fleet of more than 100 vehicles and machines, and three production plants.

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## The challenge:

The construction industry is growing by the day. The demand for high-quality concrete is also rising, as is the number of plants producing this product. Transport from the production sites to the construction sites is also becoming more frequent, resulting in significant costs for operating materials such as fuel and oils for the vehicles. For this reason, it is necessary to ensure that consumption is as efficient as possible and to check fuelling systems for possible leaks.

## The solution – why ifm?

In order to assess the efficiency of fuel consumption, the first step has been to compare the levels of the petrol stations with the consumption of the vehicles from 2022 onwards.

For this purpose, the levels of the petrol stations are detected using the PS307A hydrostatic submersible pressure transmitter for hazardous areas. The analogue signal is converted into digital data using the DP2200 converter and then fed into the system's control system via the AL1122 IO-Link master. Consumption at the petrol pump is also detected using mechatronic flow sensors of type SB2257 and transmitted via IO-Link.

To process the flow, level and RFID data from the field, a CR1058 programmable graphic display for controlling mobile machines has been implemented, which records all the information via the Ethernet/IP protocol, displays it on the screen in the vehicle and then transmits it to the cloud. This means that all values can be compared with each other in order to detect losses while they are occurring. This reliably prevents undetected fuel losses and thus ensures cost savings in the long term.

## Results:

- No undetected losses of fuels and oils
- Predictability of fuel and oil consumption through data analysis
- Digitalisation of consumption measurement

**Predictable fuel requirements**

**Notification in case of leaks**

**Cost savings**

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