

» Success story

Temperature monitoring of food products during transport »



» Biggest super market chain in Greece

monitors temperature of their food products

In the transport sector, respecting the **cold chain** is a major issue, both for public health and for economic reasons. As far as the **food industry** is concerned, the regulations are also very strict in terms of respect for the cold chain, whether for fresh, cold or frozen products.

In light of these challenges, one of the **biggest super market chains in Greece** has entrusted to **Skytrack** and **ELA Innovation** to provide a complete **fleet management solution** to address **temperature monitoring** and **prevent a break in the cold chain of their food products**.

Thanks to this **connected monitoring solution**, the super market chain has successfully and reliably monitor the temperature of the **vehicles' cooling rooms, ensuring the preservation of goods at the highest quality standards**.

» The key players



IoT sensor manufacturer



Integrator of IoT solutions

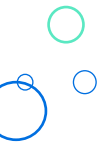


« Our client wanted a practical solution for monitoring the temperature in the cold rooms of their trucks and by combining our Fleet Management software with ELA Innovation's hardware we got exactly the result that we wished for. Our client uses this solution for three years now and is very satisfied with the outcome. »

Nikos Dragiotis, Skytrack Sales Manager

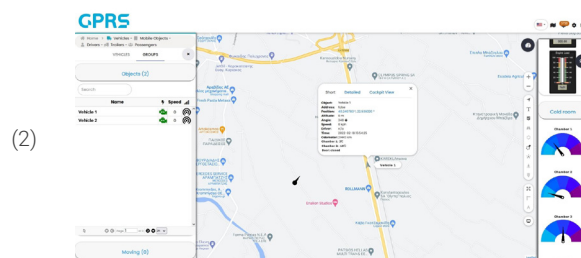
» The client requirements

- ✓ To monitor the temperature in real-time and alert the driver in case of variations.
- ✓ Successfully operate all the supermarket chain's channels.
- ✓ Keep an accurate and reliable history of temperature variations.
- ✓ To ensure product quality



» The equipment

- ✓ 240 Blue PUCK T EN12830 (1)
- ✓ Skytrack «GPRS» IoT Fleet Management platform (2)



» The operating mode

From a technical point of view, the temperature sensors are fixed in **refrigerated trailers**, in the **cooling rooms of the vehicles**. 100% autonomous ELA Innovation **Blue PUCK T EN12830 temperature sensors** measure and record the temperature at regular (configurable) intervals.

The data (the Datalogger) is then transmitted by the sensor to the **GPRS gateway via Bluetooth Low Energy**. GPRS, serving as both the gateway and IoT platform for this project, transmits the information to the Skytrack IoT platform via the 3G/4G cellular network.

The end-user is able to visualize the history of the variations in the form of graphs and reports on the IoT platform. In this case, when the temperature exceeds the predefined level, an **alert is displayed in real-time on the driver's smartphone**.

» The benefits

- ✓ Ensuring reliable product quality
- ✓ Permanent and real-time monitoring of the temperature of the refrigerated trailers

» The advantages

- ✓ Quick and easy installation of sensors
- ✓ Send alerts in real-time
- ✓ Reliability and high accuracy of data