



Smarter traffic control solutions in the Netherlands: 30% savings through fleet and driver monitoring

THE WINNER

IOT PROJECT OF THE YEAR 2024

This project is one of the winners of the IoT project of the year 2024 contest. Explore the article and [learn more about all the winners](#).

About the client

[BUKO Infrasupport](#) is a leading expert in temporary traffic control solutions in the Netherlands. They have over 30 years of experience.

The company's work is as dynamic as the roads it manages — from redirecting traffic during a pop festival to setting up safe detours for overnight roadworks. Operating out of 14 hubs with 375 employees, BUKO delivers a full-service package, from designing traffic plans to on-site setup — all under the motto of *safety first*.

Challenge

With hundreds of vehicles and equipment constantly moving between active sites, BUKO faced a number of operational challenges typical of managing a substantial fleet.

Manually tracking mobile traffic lights took time and strained resources. Limited visibility into fleet and driver activity made it hard to plan efficiently. And without the right tools, reporting on fuel use and emissions was slow and not very reliable.

To work more efficiently and maintain high safety standards, the company set out to improve several key areas:

- **More effective fleet management**, including assigning drivers to trucks, route optimization, and trip scheduling.
- **Driver behavior monitoring**, with scoring tools to encourage safe, efficient driving.
- **Remote tachograph data downloads**, to save time and ensure compliance with strict EU regulations.
- **Smart tracking of mobile traffic lights**, with access to location history and alerts for deviations or malfunctions.
- **Integrated dashcams**, to monitor road infrastructure in real time.
- **Detailed reporting and smarter task coordination**, supported by alerts, reminders, and customizable dashboards to reduce manual work.

BUKO needed a service provider who could tackle all of this in a future-ready setup — one that was scalable, easy to maintain, and backed by 24/7 support.

They got an all-in-one solution from [HubLogiQ](#), a Wialon partner in the Netherlands. **And just eight months after implementation, fleet costs dropped by 30%.**

Read on to discover how the project came together — and how fleet tracking in the Netherlands unlocked a new business opportunity.

Solution

To meet BUKO's operational needs, HubLogiQ implemented a tailored solution for fleet management with IoT — combining visibility, control, and automation.

Software components:

- **Wialon** — A [comprehensive platform for fleet management](#) was used to track trucks and mobile traffic lights in real time, providing movement history and operational analytics. It also processed CAN data to monitor fuel consumption and reduce fuel-related costs.
- **Driver behavior monitoring system** — Developed by [Tesnum](#) and integrated with Wialon, this app tracks driver performance using detailed monthly reports and scores. In this project, it supported safety and efficiency through incentive programs and provided flexible analytics to fit BUKO's internal processes.
- **Tachograph file manager** — A dedicated software for tachograph telematics ensures secure, automated data downloads and full compliance with EU regulations.
- **Dashcam integration app** — Provides real-time access to video feeds for road infrastructure monitoring and critical events recording.

Driver	Score	Category	Score	Category	Score	Category	Score	Category	Score	Category	Score	Category	Score	Category
Driver 1	8.1	High	8.1	High	8.1	High	8.1	High	8.1	High	8.1	High	8.1	High
Driver 2	7.7	Medium	7.7	Medium	7.7	Medium	7.7	Medium	7.7	Medium	7.7	Medium	7.7	Medium
Driver 3	6.7	Low	6.7	Low	6.7	Low	6.7	Low	6.7	Low	6.7	Low	6.7	Low
Driver 4	6.3	Low	6.3	Low	6.3	Low	6.3	Low	6.3	Low	6.3	Low	6.3	Low
Driver 5	6.1	Low	6.1	Low	6.1	Low	6.1	Low	6.1	Low	6.1	Low	6.1	Low
Driver 6	5.8	Low	5.8	Low	5.8	Low	5.8	Low	5.8	Low	5.8	Low	5.8	Low
Driver 7	5.4	Low	5.4	Low	5.4	Low	5.4	Low	5.4	Low	5.4	Low	5.4	Low
Driver 8	5.1	Low	5.1	Low	5.1	Low	5.1	Low	5.1	Low	5.1	Low	5.1	Low
Driver 9	4.8	Low	4.8	Low	4.8	Low	4.8	Low	4.8	Low	4.8	Low	4.8	Low
Driver 10	4.5	Low	4.5	Low	4.5	Low	4.5	Low	4.5	Low	4.5	Low	4.5	Low
Driver 11	4.2	Low	4.2	Low	4.2	Low	4.2	Low	4.2	Low	4.2	Low	4.2	Low
Driver 12	3.9	Low	3.9	Low	3.9	Low	3.9	Low	3.9	Low	3.9	Low	3.9	Low
Driver 13	3.6	Low	3.6	Low	3.6	Low	3.6	Low	3.6	Low	3.6	Low	3.6	Low
Driver 14	3.3	Low	3.3	Low	3.3	Low	3.3	Low	3.3	Low	3.3	Low	3.3	Low
Driver 15	3.0	Low	3.0	Low	3.0	Low	3.0	Low	3.0	Low	3.0	Low	3.0	Low
Driver 16	2.7	Low	2.7	Low	2.7	Low	2.7	Low	2.7	Low	2.7	Low	2.7	Low
Driver 17	2.4	Low	2.4	Low	2.4	Low	2.4	Low	2.4	Low	2.4	Low	2.4	Low
Driver 18	2.1	Low	2.1	Low	2.1	Low	2.1	Low	2.1	Low	2.1	Low	2.1	Low
Driver 19	1.8	Low	1.8	Low	1.8	Low	1.8	Low	1.8	Low	1.8	Low	1.8	Low
Driver 20	1.5	Low	1.5	Low	1.5	Low	1.5	Low	1.5	Low	1.5	Low	1.5	Low

The Tesnum dashboard shows drivers' safety scores

Key hardware components:

- **GL33CC** — Installed on mobile traffic lights; cost-effective devices with extended battery life and real-time tracking.
- **FMC150 (4G)** — Installed in trucks to collect CAN data on fuel consumption and mileage.
- **GV355CEU** — Used for automated remote tachograph downloads.
- **Howen mini dashcams with custom firmware** — Installed in vehicles to monitor driving behavior and road conditions.

Implementation process

The project began with a three-month demo period. HubLogiQ installed the system in 15 vehicles and provided on-site training to help BUKO's team evaluate its value in real operating conditions.

Following a successful trial, the system was scaled across the fleet — including 163 vehicles and mobile traffic lights connected to Wialon. To avoid disruptions, migration was carried out in parallel with the existing system and scheduled outside business hours.

Not only did HubLogiQ onboard all fleet managers and planners through in-person sessions, but provided tailored documentation and instructional videos to support ongoing learning. "We also set up a dedicated WhatsApp group to provide fast, practical support and resolve issues quickly," shared the HubLogiQ team.



With tracking devices installed, mobile traffic lights became part of the connected fleet — visible and manageable in Wialon

A new service model powered by dashcam data

Besides streamlining internal operations, the dashcams enabled a new business opportunity: [Real-Time Road Inspection \(RTRI\)](#). The subscription-based platform collects over 150,000 images of the road network daily and makes them available to road and infrastructure managers across the Netherlands. RTRI helps reduce unnecessary site visits, saving time and supporting sustainability goals by cutting mileage and emissions.

What started as a fleet tracking tool is now a paid service and a part of BUKO's growing offering for digital infrastructure and public space management.

Results

With help from a Wialon partner, BUKO gained a clearer view of its fleet and mobile equipment — cutting costs, staying compliant, and running operations more safely and sustainably.

- 30% fleet cost reduction in the first 8 months**
 Adopting fleet management software in the Netherlands helped cut fleet costs by 30% in just eight months. Improved driver performance was a major factor behind the financial savings.
- Improved visibility across the fleet and equipment**
 Thanks to Wialon, BUKO now has better insight into the location and status of their mobile traffic lights. This has improved planning, sped up redeployment, and reduced operational costs. Fleet monitoring enhancements helped improve overall safety and control.
- Tachograph compliance**
 Automated tacho data solution helped BUKO stay compliant and avoid high fines for missing download deadlines.
- Better fuel and emissions tracking**
 Accurate fuel consumption and CO₂ data now support internal reporting, help control fuel-related costs, and ensure environmental compliance.
- Offering video-driven road intelligence as a commercial service**
 Dashcam footage is now used not only for internal safety and reporting, but also as part of BUKO's RTRI platform — a subscription-based service that supports smarter infrastructure monitoring across the Netherlands.

Company profile

IoT project of the year nomination: Substantial fleets

Country: The Netherlands

Industry: General fleets

Solutions

Wialon

Hardware

Queclink GL33CC

Teltonika FMC150

Queclink GV355CEU

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