

FleetHealth – Vehicle Health and Fraud Detection

CONSORTIUM:

Level Ltd. (Czech Republic)

Seacon Europe Ltd. (Hungary)

Our extended intelligent fleet management solution envisions the concept of integrated, wireless or cable-based sensors, which adds more electronically collected and processed information to vehicle event detection, tracking and validation, enterprise information management supply. The solution is resulting reduced operating costs, more flexible capacities, positive effects on the "health" and fraudulent operation of the vehicle.

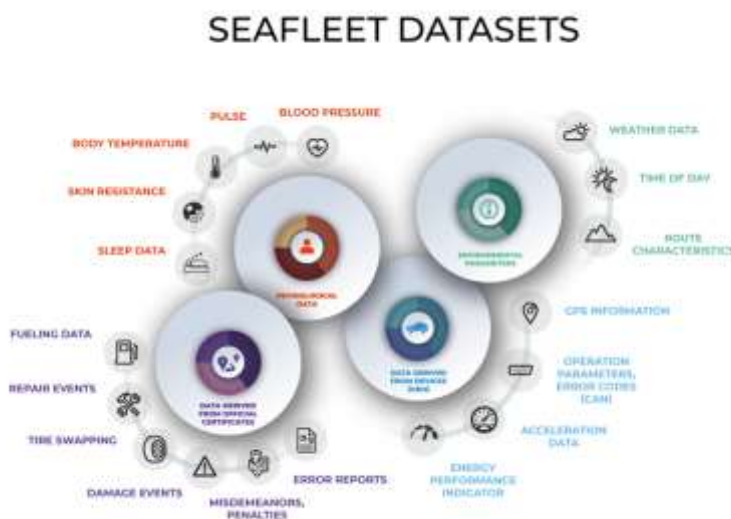
Improving the existing SEAFLEET (<https://seafleet.hu/en/>) product with integration of the LEVEL's novel developments to the EU level, using objective measurement results will allow users to make better decisions about fleet operation and vehicle usage.

This improvement will be achieved through the development of two completely new system modules, namely the

- VEHICLE HEALTH
- FRAUD DETECTION

The new modules will be available in the Seafleet fleet register, fully integrated into the typical processes of corporate governance.

Processing as a wide range of measurement data as possible THE GOALS GENERALLY are to



- improve safety, fleet efficiency,
- reduce repair/maintenance costs, fuel consumption, air pollution
- deliver significant reductions in running costs
- application of official certificates (supplier accounts, damage events, traffic offenses, service requirements, performance and repair data)
- provide periodical reports, statistics, graphs on vehicle health/performance

Specific goals

VEHICLE HEALTH OBJECTIVES

- *Realize the cost reduction to a minimum by revealing and processing operational events, vehicle operating warnings in real time, maintenance and repair cost history, all in the context of the data, analyzing and linking. Our idea is "predictive analysis" - focusing on the prediction of impacts and consequences (eg. lack of respect for the traffic rules based on on-board equipment, aggressive driving)*
- *By developing and tracking the fleet's takeover rules, processes, and implementation, our customers can greatly improve operational efficiency*
 - *An active help to avoid irreparable accident and business damages*
 - *Advise customers how to consider service schedules*
- *To improve safety and fleet efficiency, by significantly reducing repair, maintenance and operating costs, reducing fuel consumption associated with reducing air pollution, periodic reports, statistics and graphs of vehicle health and performance*
- *Extending SeaFleet support to all levels of fleet administration, from collecting data in running vehicles, through purchasing and selling vehicle fleets, operation, repair and maintenance, to analysis of insurance claims, purchase of consumables, obtaining licences, permissions and certifications, to ERP integration, reports and operational warnings to management (MIS)*

FRAUD DETECTION OBJECTIVES

- *Use unique recognition algorithms, monitor user behavior and handle vehicle event rules, in accordance with road and environmental conditions, and identify security-related anomalies.*
- *Transforming the collected data into knowledge in a progressive way, creating a true value for the customers. Alerts come from the original sensors of the vehicle and from other sensor sets developed in the project.*

EXPECTED INTERNATIONAL OUTCOMES of the project:

- *New sensor based measurement solutions, the results of which will be used to improve cost-effectiveness*
 - *An enhanced data communication channel between vehicles and back offices*
- *Two new modules based on innovative data processing methods and analysis of central databases, new modules, establishing better processes in decision-making at management board*
 - *On-premise or SaaS service for supporting economical fleet operation*