

FLEET MANAGEMENT SOLUTION WITH PERTAMINA PATRA NIAGA

Overdrive IoT empowers smart connectivity in the oil and gas sector as it partners with PT Pertamina Patra Niaga to design a platform that will give them the ability to monitor vehicles' geolocation, and gain overall visibility of their whole delivery supply chain process.



The Challenge

The oil and gas business is a high-risk industry and Pertamina was constantly looking for a solution that can minimize or even eliminate existing risks such as

1 Fire Prevention

Transportation of fire hazard goods can be dangerous and they need a solution that can help maintain a safe distance around the tank vehicles and ensure that the tank and fuel load will not cause a fire.

2 Fuel Theft

Fuel is Pertamina's most valuable asset and they need a platform that can help monitor their fuel usage and eliminate possible cases of fuel fraud and theft.

3 Driver Safety

Pertamina wanted to have a platform that can help monitor their driver's activities and fatigue levels to prevent traffic accidents.

4 Tank Safety

They are unable to monitor their tanks and resolve issues involving brake system failure, tire wind pressure detection, tank car maintenance and tank car reliability.

The Solution

Overdrive helped develop the Smart MT solution that was designed to manage Pertamina's tank car and tank car crew (AMT), ensuring optimal condition before delivering products from the terminals to and from petrol stations. The solution enables the setup of alerts, notifications and triggers that can help Pertamina capture real-time data on driver activities, delivery status and product condition.

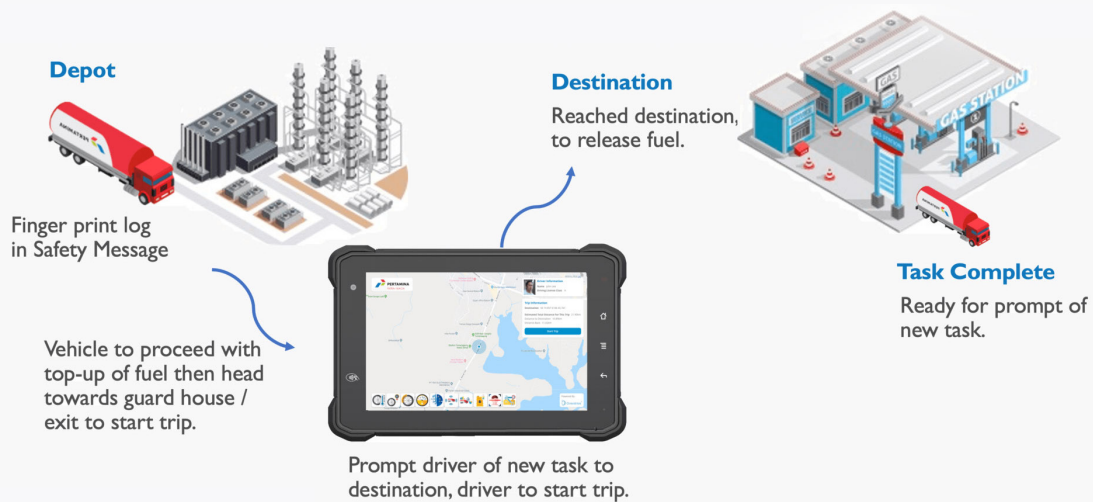
Number of Assets:

2,000 Oil Tankers, 5,500 gas stations

Product Used: OverWheels



How does it work?



The solution allows Pertamina to prompt new tasks and predetermine routes to authorized drivers through a precision GPS tracking tablet installed in each truck. Once a task is completed, Pertamina will be notified in real-time, giving them the capability to schedule new jobs for their drivers, maximizing their time and productivity. In addition, Overdrive developed premium features that are in line with Pertamina's future business expansion.



Auto Route Navigation

Provides data on start and end points, with fixed routes determined by the fleet management platform



Facial Fatigue Sensor

Provides fatigue level data of crew members



Tyre Pressure Monitoring Sensor

Provides all vehicle tyre air pressure data



Auto Maintenance Platform

Ability to set web alerts as a reminder on periodic maintenance



Vehicle & Driver's Data Logging

Enables users to see all vehicle & driver's data logging.



Fuel Consumption Sensor

Provides information on the usage and compares efficiency against the vehicle's activities



Driver Behavior Sensor

Provides driving behaviour score such as overspeeding, harsh braking, idling, etc.



Electronic Sensor Platform

Provides real-time status information on the vehicle's electronic condition



Authorized Driver

An authorization method to function as a key to register driver to the vehicle with the use of fingerprint scanners



Data Logger

Store transaction data in local storage



Safety Induction Voice

Provides voice instructions to drivers regarding driving regulations and safety rules (HSE)



The Benefits



Enhance driver and vehicle safety



Boost cost efficiency



Prevent vehicle and fuel theft



Accurate real-time access to vehicular data

The Results

Overdrive's high-end sensors and solutions ensure the successful digital transformation of Pertamina's transport and operational process. It gave them the boost of confidence in ensuring the accuracy and transparency of data in every transaction carried out.

It entails improvements on process control, increase in driver and public safety, reduction in accidents and cost, and increased protection against any possible fraud and fuel theft.

Who Are We

Overdrive is the leading real-time asset monitoring IOT company in Asia that provides end-to-end IoT solutions and automates data sensing of various types of assets within a business ecosystem, from vehicles and machinery to facilities and people – all under one roof.

What We Do

Specialises in

- Vehicles Monitoring
- Airport Management
- Vessel Tracking
- Heavy Machinery Monitoring
- Smart Hygiene
- Environmental Monitoring
- Sustainability Solution

Hello,
We Are **Overdrive**.

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