

FLEET MANAGEMENT SYSTEM



TOTAL

DIMSS

THE SOLUTION BENEFITS

- VEHICLE TRACKING
- DETAILED AND ACCURATE TRIP RECORDING
- REAL-TIME DATA ANALYTICS
- INTELLIGENT IN-VEHICLE COACHING
- RISK AND SAFETY REPORTING
- VEHICLE IMMOBILIZATION AND DRIVER IDENTIFICATION

Total Exploration & Production Nigeria Limited (“TEPNG”), an affiliate of TOTAL S.A., has operated in the upstream sector of the Nigerian hydrocarbon industry for more than 50 years and has added over 3 billion barrels of oil equivalent to Nigeria's production to date.

Incorporated in Nigeria in 1962, TEPNG has maintained strong and steadfast partnerships with the Nigerian Government, the Nigerian National Petroleum Corporation (NNPC) and several indigenous companies, in developing the country's hydrocarbon industry. For the ease of its operations, TEPNG have over 500 vehicles operating on Nigerian roads.

CHALLENGE

Nigerian roads are predominantly plagued with high traffic, dangerous road conditions and a prevalent bad driving habit among its citizens. TOTAL S.A., businesses operating in Nigeria have continuously raised their concerns over the safety of their drivers and assets as they ply these roads. There is need to know the exact location and driving conditions of the vehicles at any point while they journey through the roads.

Maintenance reports of TEPNG have also shown frequent breakdown of vehicles and some vehicles have become unusable even before its proposed lifespan. Bad road conditions cannot be solely blamed for these breakdowns; drivers' driving habits also serve as a factor. How then can these drivers' driving habits be tracked and kept in check?

All the above mentioned challenges and more have resulted in huge expenses on insurance premiums, damages to capital good(s), lawsuits and maintenance costs for their fleets.

SOLUTION

Burnsley as an international technology consultant for West Africa's giant economy – Nigeria; was invited to provide a solution to this challenge, since that is what we do best (provide solutions). After considering the needs and wants of TEPNG, Burnsley developed an all-in-one solution; DIMSS (Driver Improvement Monitoring and Security System).

DIMSS is a state-of-the-art solution that utilises modern technologies to provide a seamless system to support the needs of fleets now and into the future.

DIMSS enables the real-time monitoring of a vehicle by combining GPS system with on-board diagnostics to record – and map – exactly where a car is (position on the map) and how fast it is travelling. The system also gives real-time notification of driving events such as extreme acceleration, braking, cornering, high speed, idling, accident and lots more.

BENEFITS OF DIMSS

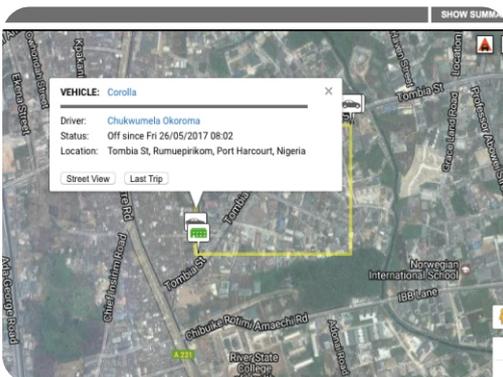
DIMSS provides the following:

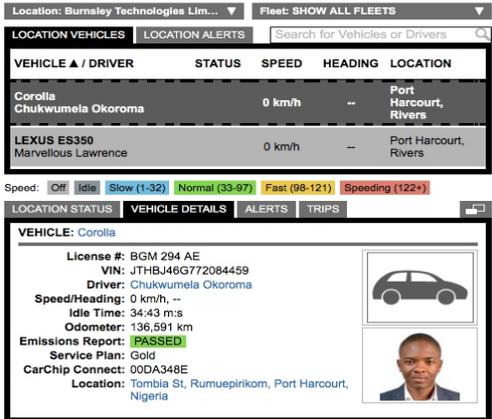
Vehicle Tracking:

DIMSS provides accurate data on vehicle position and location. With its Active tracking capability, DIMSS gives per second per second update on vehicle location (including address) on the map, direction of movement and speed while driving.

Detailed and Accurate Trip Recording:

DIMSS offers accurate and detailed record of every turn, curve and stop; as it records all driving details. It also provides a trip trail for every journey which shows speed, road travelled, policy violations, time of arrival and departure, driving time, stops and locations visited. The trips are recorded and stored so that they can be played back from departure to arrival at any time and for any specific date.





Real-Time Data Analytics:

DIMSS gives real-time rich and accurate data on common status information in vehicles such as engine RPM, engine light, seatbelt, odometer, engine hours, emission report, vehicle identification number (VIN), vehicle battery voltage, temperature, fuel usage and much more.

Note: Emission report shows vehicle malfunction and active engine diagnostic trouble codes (DTCs).

Intelligent In-Vehicle coaching:

DIMSS offers live coaching (real-time verbal feedback) and in-vehicle alerts so drivers are instantly notified of infractions. Using advanced text-to-speech technology, spoken instructions warn drivers of violations and critical driving events such as speeding, harsh braking, seatbelt unbuckle and excessive idling so that they can immediately correct their behaviour and improve their on-road performance.

Risk and Safety reporting:

DIMSS safety reports provide advanced insight into drivers' on-road activities. Risk and safety scores are assigned to individual drivers based on various factors: speeding, seatbelt usage, braking habits, degree of corner turn, acceleration and after-hours vehicle usage. DIMSS reports can be generated daily, weekly or monthly.

Vehicle Immobilisation and Driver Identification:

DIMSS can remotely stop and resume vehicle in event of theft or unauthorised usage. DIMSS also comes with NFC keys which help to mobilise vehicle engine as well as identify which driver is driving the vehicle.

Audible Alerts:

Drivers hear audible alerts/beeps when they over speed, brake harshly, accelerate harshly, or leave geo-fenced zone.

Camera Telematics:

With an onboard camera, DIMSS gives a detailed dual view of what is happening inside the vehicle and the traffic in front. Also during harsh-events (acceleration, braking, cornering, etc.), accidents and collisions; DIMSS uploads videos and snapshots that can be replayed and viewed to see how the incident occurred.

Artificial Intelligence Fatigue Monitoring:

DIMSS accurately predicts drowsiness in drivers and alert them at such a time. It uses a unique technology to analyze the eye's fatigue condition and provide accurate early warning for real fatigue. It also detects distracted driving when driver turns away from the road. DIMSS works day and night and even if the driver is wearing glasses.

DIMSS is a dynamic system that can be designed to suit every need of the user. With an IOX expandability and third party integration feature, DIMSS can be combined with existing systems, software etc. to provide whatever data is required by its user.



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NIGERIA
4 Graceland Avenue, Tombia Road Extension,
G.R.A Phase II, Port Harcourt, Rivers State.
Nigeria. 500271. :
business@burnsleytechnologies.com
+234 (0) 704 300 2003
+234 (0) 905 801 8890

LONDON
71-75 Shelton Street, London. W2H 9JQ
info@burnsley.co.uk
+44 (0) 20 8793 7285
+44 (0) 778 970 5846

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ABOUT BURNSLEY

Burnsley is an international technology consultant that provides expert specialized services for the digitalisation of processes. This is not limited to products, services, and manufacturing; but also includes the digitalisation of entire business processes.

