Monitor driving behaviour to mitigate major risk and reduce fleet Opex

Description

Live onboard driver scoring, incidents, performance, vehicle status, feedbacks improves the driving behaviour of the driver right in the cab and helps to optimize your driver's performance as a whole and make proactive decisions. Drivers can access their performance history and score around the clock. Utilization of the driver can be monitored which helps it increases route productivity and helps you meet your objectives and customer base.

Challenge

- Client have their operations spread across wide areas in the country. They find it hard to track all operations and also to communicate with drivers remotely whenever required. Additionally, locating each vehicle in the fleet can be a tiresome task as it may require continuous zooming and scrolling across a map.

- The challenge here is fleet generates huge volume of data which needs to be collected into centralised repository to analyse the data like the driver behaviour, such as idling time, distances driven, fast cornering, harsh braking and speeding, as well as the location of all vehicles at any given point and authorised versus unauthorised use.

- In order to optimize time, safety and resources, the solution displays a single view of the all the fleet types operating across the country on geographic mode

including the various other factors affecting the fleets operation.

- Client needs a solution which can help them monitor driver responses and safety protocols. Driver shortage is one of the concerns for fleet managers in the past decade. When demand for transport increase, number of drivers continues to stagnate. Hiring up inexperienced drivers can also lead to safety and other issues, so driver behaviour to be monitored continuously.

Solution

- Data is available in 3 different sources accessed using web services, csv files and database using direct JDBC. Scheduled jobs are executed on a daily basis to extract and load data into datawarehouse system.API call is used to extract the weather condition information.

- The visual helps client to interpret and derive driver insight from the data. Displays the geographical view of movement for vehicles in real time, and alerts showing for idleness of the driver. Drivers are scored based on the incidents raised and their behaviour. Managing the fleet successfully depends on the driver performance and scoring.

- Incident analysis tracks the current and history of incidents raised by the drivers during their trips.It shows the records of each incident by the driver and displays according to the type of the incident. Highlights number of Incidents and drill through the location where the incident got occurred. This can help the client to identify frequently occurring incident in the specific location by a driver and guide them to control in the future trips.

- Concerned vehicles are alerted and its status is monitored continuously. Detailed information on the status and

condition of every vehicle across your fleet, alerting managers to potential problems so they can be addressed before becoming serious. Helps to track fuel consumption tendencies to minimize idling time, emissions, and more.

Benefits

- Live tracking and monitoring of all fleets types to ensure smooth operations, manage incidents and failures of fleets occurred during the trips with visuals which improves efficiency in managing fleet and assets data without any discrepancy. Helps in accomplishing a series of activities in the management of all aspects relating to a company's fleet of vehicles.

- By tracking vehicle activity, with real-time fleet management software reduces time and fuel costs and increases productivity with GPS vehicle tracking systems. Client can be able to keep track and manage locations, fuel, faults, acceleration, and view driver and vehicle behaviour as it happens anytime, anywhere.

- Complete control of entire driver and vehicle data with real time tracking helps to manage fleets without any unnecessary delays. Each and every individual driver current and past performance can be monitored and ensure the efficiency of the driver. Reduces number of incidents occurrence which improves in the customer service and satisfaction.

- Putting an end to idling by monitoring vehicle idle times, inoperative vehicles and engine status by identifying which drivers are engaging in this fuel-wasting activity. Visual provides a better picture of driver behaviour and vehicle's health. This allows for greater control in scheduling and improved, data-driven decisions.