

# iGlobe

## Software Solutions

Steadily making waves with their revolutionary patent *iotaSMART* technology and SaaS-based solutions, iGlobe Software Solutions' has paved their way into the global automotive market by enhancing user experience through their cutting-edge predictive analysis. Headquartered in New Delhi, it has a strong hold in Pune in India, Hong Kong and the USA. iGlobe offers a range of smart solutions to enable its users to make smart and intelligent decisions on the go.

iGlobe Software Solutions is focused on creating a single intelligent network of vehicles across the globe. They aim to provide fleet owners and OEMs with comprehensive machine learning and AI enabled analytics of vehicles, driving behavior using edge-based camera solutions, vehicle diagnostics, and predictive maintenance allowing for efficiently healthier vehicles and thereby promoting unhindered cost effective operations while contributing towards a greener earth. iGlobe's platform enables lower operational costs, lowered risks, improved safety, and offers real-time monitoring.

iGlobe combines Artificial Neural Network(ANN) with Diagnostic Trouble Codes and engine parameters such as RPM, engine load, intake air temperature, short term fuel trip and so on to offer prediction and prescription for vehicles in real time. This wide berth of domain knowledge allows them to merge modeling and AI to attain more analytical data information, significantly reducing cost of operations. Their competent uniqueness is reflected in their ability to capture data every 1 to 3 seconds, instead of the usual 10-15 seconds, enabling them to provide predictive maintenance and solutions for failures. iGlobe also offers early diagnoses of advanced vehicle problems using OBD devices



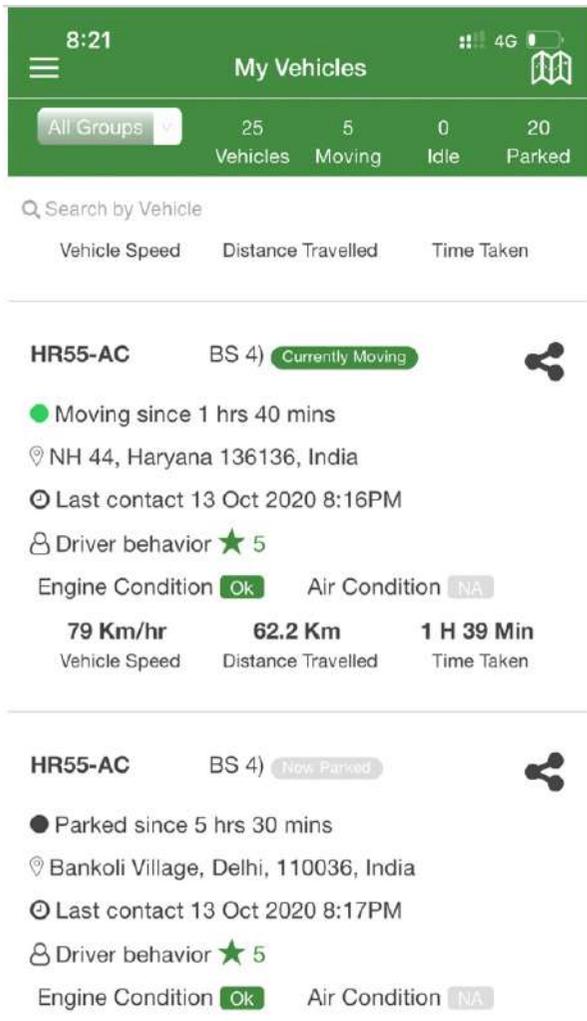
which include geo fencing, engine cut-off, remote locking and unlocking, and fuel level measurements.

### SOLUTIONS BY iGlobe

iGlobe's Connected Platform with their proprietary *iotaSmart* Technology creates a digital twin while provides a competitive operational advantage across varied industries. Their methodology incorporates exploration, analysis, simulation, prediction and prescription. iGlobe's range of solution modules comprises of:-

**iFLEET:** is the fleet management solution which collects and transforms real time data into meaningful information, predictive analytics and insights using ML and AI. It also creates a maintenance calendar enabling fleet owners, operators and drivers to make informed decisions in real time for optimizing operations and reducing costs.

**iPREDICTION:** is a Machine Learning powered digital twin solution that offers predictive maintenance by data acquisition and failure predictions. It analyses both the historical trends and the correlation of maintenance data, load



factor, driving behavior, claims, fuel expense and schedule variations. It integrates the data acquired and domain expertise with driving behavior, terrain information and environmental conditions, leading to highly accurate failure predictions, avoiding unexpected breakdowns and unplanned downtime, thereby, increasing overall operational efficiency.

**iGREEN:** monitors fleets' and vehicles' emissions and aims to reduce the carbon footprint by 8% to 10% by modifying driving behavior and predicting maintenance. It is a solution focused towards making operations more environment friendly in the current state of excessive climate change.

**iSAFE:** focuses on enhancing safety of the people and cargo by identifying driver fatigue and cell phone based distractions, using computer vision algorithms and pattern recognitions. It's state-of-the-art camera technology aids in providing

evidence for insurance purposes as well as in handling emergency situations.

**iDESIGN:** uses computer simulation models to create a digital twin for testing component performance in a virtual environment and determining their feasibility. By simulating operating and climate conditions and component parameters using real data, it can predict the exact wear and tear of the components. These connected design-based solutions have helped OEM and Tier1 manufacturers reduce production costs by 5% to 7%.

## THE ROAD AHEAD

iGlobe's team of highly skilled innovators are bringing a paradigm shift into the world of predicting vehicular behavior and connected designs. The comprehensively diverse range of solutions offered by iGlobe makes it the only one in the field to use an amalgamation of Machine Learning and Artificial Intelligence in connected designs and predicting maintenance failure. iGlobe's relentless efforts towards achieving 95% and upwards accuracy is substantiated by their use of reinforced learning wherein an inaccurate prediction is pulled back into the ML Loop to improve upon its accuracy in the future. The solutions so offered drastically reduce user's maintenance costs, inventory costs, operational costs and overheads. By implementing their 'thinking' technology for mass benefit including public transportation, iGlobe aims to improve upon vehicular efficiency in private as well as public sectors globally.

