

SA Taxi: Cross border tracking with Google Cloud

SA Taxi approached DotModus to create a solution that would help solve the issue of vanishing assets in a specific location within South Africa. The new solution was bolted onto its existing asset-tracking system.

The challenge

SA Taxi needed a reliable, real-time, dynamic solution to assist it in identifying assets at risk and utilised its existing telematics infrastructure in delivering prioritised events to the business for actioning.

The solution

The solution runs on Google Compute Engine and Google Pub/Sub, which is then consumed by Google Cloud Dataflow for the streaming data pipeline. The vehicle history is housed in a Progres instance on Cloud SQL. Finally, Apache Airflow is on a Kubernetes cluster, and the data is stored in BigQuery.

The results

The solution is able to determine the difference between low-risk and high-risk vehicles by analysing the historic data of the routes. Thus allowing the system to alert to the suspicious movement of assets. This allows SA Taxi to intercept high-risk vehicles.

“As we plan for the future of SA Taxi, we are carefully considering the impact of modern technologies and platforms and how they are vital in enabling rapid, sustainable business growth and cannot be overlooked or under-appreciated. We are enthusiastic as to the success and role that GCP has played within SA Taxi and are confident in its inclusion within our Strategic and Enterprise Objectives.”

C.J. Naidoo, Head of DevSecOps, SA Taxi



About SA TAXI DEVELOPMENT FINANCE (PTY) LTD

SA Taxi is a vertically integrated business utilising specialist capabilities, enriched proprietary data & technology to provide developmental finance, insurance and other services to the minibus taxi industry.

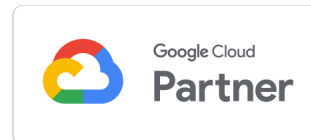
Industry: Financial Services

Primary project location: South Africa



About DotModus (Pty) Ltd

DotModus builds custom data analytics and machine learning software that helps reduce costs, improve decision making and streamline operations.



Products

Google Cloud Platform