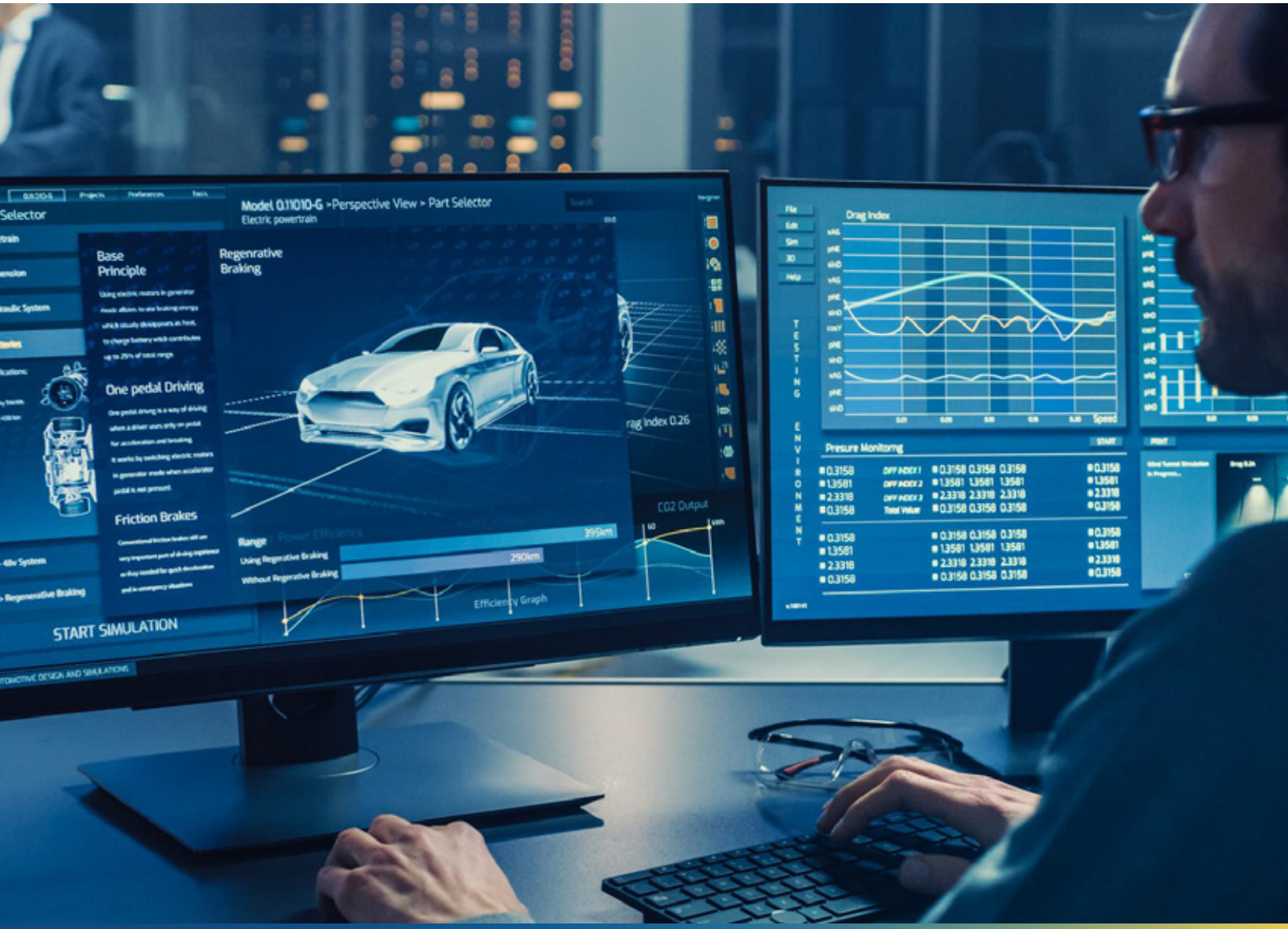
LTIMindtree



Case Study

Cloud-Agnostic Connected Car Implementation for Leading Japanese Automobile Manufacturer

For a Japan-based global automotive manufacturer, LTIMindtree implemented a cloud-agnostic connected car solution via cross platform DevOps, containerization, and API management on AWS hybrid cloud for microservices and mobile apps to enhance visibility across entire CI/CD pipeline, reduce time-to-market by 35%, and 40% faster product development.

Client

The client is one of the world's leading automobile, commercial vehicle, and power equipment manufacturers based in Japan.

Challenges

- The client's connected car line of products featured multiple user-facing web and mobile applications supported by a complex system of services including legacy, mainframe, integration bus, messaging, security and ERPs. There was a need of end-to-end visibility across tools and services for effective collaboration.
- The delivery of services to the end users involved manual activities in building packages, testing and deploying with time-bound co-ordination between multiple teams leading to slow time-to-market.
- Consumer-facing mobile applications faced low user ratings, which resulted in low customer satisfaction index.

LTIMindtree Solution

LTIMindtree implemented cloud-agnostic connected car solution via cross platform DevOps, containerization, and API management on AWS hybrid cloud for microservices and mobile apps. The details of solution are -

- We developed a future-proof, cloud-ready architecture designed to scale limitlessly.
- Microservices deployed as Docker swarm services (replicated containers) with auto-scaling, monitoring, and log aggregation.
- Built app lifecycle automation designing DevOps platform.
- Single DevOps platform solution for microservices (Java & .NET) and mobile apps (Android & iOS) on AWS hybrid cloud led to technology risk reduction and landscape transformation.
- Cloud-agnostic and container management solution implemented to avoid vendor lock-in.
- Infrastructure automation was done using Docker.

Technology Used: Docker, AWS Cloud – AWS EC2, Java, .NET, Mobile apps – Android, iOS.

Business Benefits

Consistent user experience using a tool/could-agnostic solution.

Reduced lead time-to-market by 35% due to self-service and rapid DevOps enablement using LTIMindtree's Genius platform.

End-to-end traceability across the entire CI/CD pipeline.

~40% faster product development, leading to improved customer satisfaction and user ratings.