

# Cloud-Driven Test Ecosystem for Accelerating Vehicle Development

## Background

- The objective was to streamline the testing process for a European Automotive OEM, automating validation and enabling early delivery of functions, features, and attributes into vehicle programs

## Challenge

- Isolated validation silos that were more commodity driven, different tool chains, different test methodologies
- Lack of skilled manpower and quick ramp up requirements to meet the backlogs
- Developing an ecosystem to help left shifting catering to both vendor based as well as in-house developments

## Solution

- Cloud-driven test ecosystem envisions the establishment of a world-class end to end Validation hub covering all possible aspects - MIL -> SIL -> HIL- Component level -> HIL- System level -> HIL- Vehicle level
- The validation hub incorporates development and maintenance of the Test Infrastructure/Properties, Development and automation of Test Cases, and planning/execution based on sign of requirements

## Impact

- Multiple vehicle programs covering multiple ECUs
- 6000+ reusable test cases developed
- 100% test automation delivered

