KPIT Experience - Model-Based Software Development (MBSD)

KPIT Credentials

- Working on MBD based projects since 2002
- Working with OEMs and Tier-1’s using MBD for subsystems like PowerTrain, Chassis, Body, Safety etc
- 400+ engineers working on modeling projects
- Developed customized process and tools for MBD for improvement in quality and productivity
- Developing Production Software using Model Based Technology
- Software Development Workflow compliant with ISO 26262 Framework

© KPIT Technologies Limited
KPIT Experience - Model-Based Software Development (MBSD)

- Feature Development Using MBD Methodology
  - Exposure to full life cycle development (V model)
  - Best Practices/Modeling Guideline Compliance
  - MIL, Autocode Generation, SIL, HIL Testing

- Executable Specifications Development
  - Behavioral Model Development
  - Adherence to Standard/Customer Modeling Guidelines
    - Functional Test Case Identification
    - Forward/Backward Traceability
    - Use of Standard / Customized tools
    - Established workflow enabling process automation

- MBD Workflow/Process Consultancy
  - Process Customization based on type of project
  - Integration of third party tools with Matlab/Simulink
  - Process Automation for improved productivity

- Legacy to MBD Migration
  - Customized workflow based on state of legacy code
  - Migration approach: Top-Down, Bottom-Up
  - 100% Test Coverage to ensure seamless migration
  - Use of Standard / Customized tools
  - Established workflow enabling process automation

- Tool Chain Consultancy
  - Modeling Tools Selection
  - Auto-Code Generators Selection