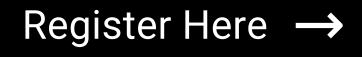## AVL

EVENT

Technology Day at TML

Accelerating Development through Model-Based Innovation

June 5, 2025
09:00 AM to 04:30 PM

VENUE

Tata Motors Ltd. Pimpri Pune
ERC engine building 1, first floor
conference room

Register Here →

Agenda

09:00 – 09:15 | Welcome & Opening Remarks

- Opening Remarks by Michael Benz - VP, TATA Motors Limited.

- Importance of digital transformation and simulation by Dinesh Goyal - VP, AVL ITC

- Introduction of agenda and speakers: Pravin Pathe - Business Unit Head, AVL AST

09:15 – 09:45 | Keynote: From Concept to Post SOP – The Model-Based Journey

- Speaker: Michael Glensvig - Project Manager & Samuel Swamidass - Senior Simulation Engineer, Powertrain

Topics:

- Overview of system simulation & system engineering

- Integration of SiL, VTB, H2, and testing

- Fast digital twin in the cloud

- Leveraging AI for fleet data analysis

09:45 – 10:30 | Live Demonstration: ICE-SiL with AVL CRUISE™ M

- Speaker – Hardik Naithani - Deputy Manager, E-Mobility, Yash Shandilya - Sr. Engineer & Ian Spencer - Senior Calibration Engineer Model Based

Highlights:

- Use of AVL CRUISE™ M for ICE-SiL

- Enhanced AVL VSM™ & Model.CONNECT™ Setup

- Showcase of successful calibration use-case delivered to Tata

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10:30 – 11:15 | Success Stories: Accelerating Time-to-Market through Model-Based Development

- Speaker: Franz Eberhard - Lead Engineer, Model-Based Calibration
- Gasoline engine and EAS AVL CRUISE™ M Enhanced Engineering modelling
- AVL Maestra® Virtualization of control units
- Measured impact on test coverage and development time (Examples from AMG, Daimler and VW Projects)

11:15 – 11:30 | Coffee Break & Networking

11:30 – 12:15 | AVL CRUISE™ M – Powering Office System Modeling and Virtual Testing

- Speaker – Ales CVIKL - Team Leader Thermodynamics (via teams call)
- AVL CRUISE™ M for office, SiL, and HiL – an overview of software capabilities and usage
- Introducing AVL CRUISE™ M and its application spectrum (verification of system design targets, concept development, system details)
- Online Demo (example: Engine Thermodynamics Gasoline ICE)
- Ready for SiL and HiL

12:15 - 13:00 | Leveraging AI for Fleet Data Insight

- Speaker: Gerhard Schagerl - Product Line Manager
- Efficient analysis methods
- Use of AI for predictive insights and data-driven optimization with a focus on data collection after SOP

13:00 – 14:00 | Lunch Break

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14:00 – 14:30 | AVL services supporting Tata's future Model-Based activities

- Speaker: Prabhu Santiago - Affiliate Business Manager, Kurt Klumaier - Lead Engineer Model Based Calibration & Michael Glensvig - Project Manager Model Based Development
- Full vehicle simulator and other modelling activities for the 4 upcoming HiLs which will be delivered in Q1-2026
- H2/CNG AVL CRUISE™ M Enhanced Engineering combustion modelling
- Short status of the running activities on the 5.3L VTB with outlook

14:30 – 15:00 | Live Demonstration: SiL for E-motor/Inverter functional testing and calibration

- Speaker: Samuel Swamidass - Senior Simulation Engineer Powertrain
- Using AVL CRUISE™ M for E-motor and inverter modelling
- SiL Setup with AVL CRUISE™ M plant model and AVL Maestra® virtualized MCU
- Functional testing and calibration

15:00 – 15:15 | Coffee Break

15:15 – 15:45 | AI Driven CAE - Where Are We and What We Realistically Can Expect

- An Objective View On AI
- Example For Using AI at AVL
- Outlook

15:45 – 16:15 | Open Discussion & Q&A

- Moderated session by Arvind Mishra - GM, E-Mobility
- Feedback, additional questions, and next steps

16:15 – 16:25 | Closing Remarks & Next Steps – Arvind Mishra & Pravin Pathe

- Summary of key takeaways
- Invitation for follow-up workshops or pilot projects

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AVL

We are looking forward to see you!

Meet Us