

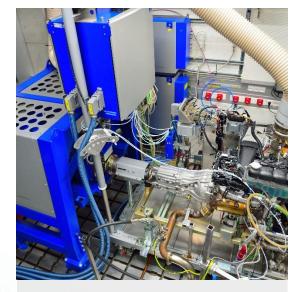


Facilities – Japan Technical Center (JTC)





4 Dyno Powertrain & Vehicle Testbed (PTTB)



Passenger Car Engine Testbed (ETB)



Commercial Vehicle Engine Testbed (ETB)





Services in JTC

Development & Calibration

Calibration

- Performance and Emission
- Advanced driveability
- Hybrid system
- **Drivetrain/Transmission**
- OBD

Development

- · Advanced mechanical development
- · Model-based development



Design & Simulation

Design

- System/Component
- New powertrain
- · SOP

Simulation

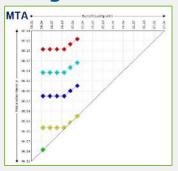
CAE analysis

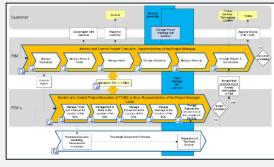


Project Management

Project Management

- Project Management
- · Liaison Management







Electrification in Japan

Japan Promotes Electrified Vehicle (xEV) Strategy ahead of 2050



- By 2050, Japan aims to realize a "Well-to-Wheel Zero Emission" policy in line with global efforts to eliminate emissions, with a focus on energy supply and vehicle innovation.
- At the moment, in Japan the market share for xEVs is already at approx. 30%.

Source: https://www.meti.go.jp/english/mobile/2018/20180911001en.html



.... and AVL is ready to support this strategy









PTTB - Electrification

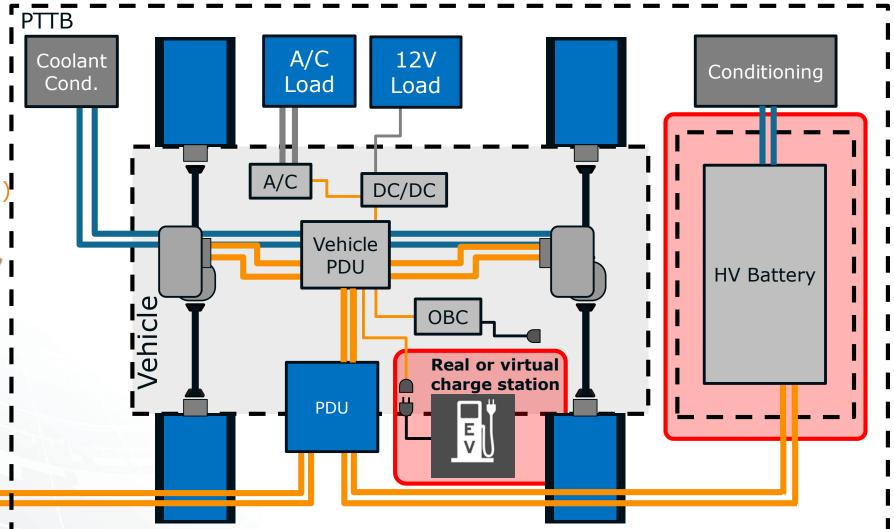
E-powertrain test

- Four Wheel Dynos
- A/C Load/Conditioning
- 12V Load
- Coolant Conditining
- HV Battery
- Power Distribution Unit(PDU)
- Charging Station

⇒"E-Integration Test system" |

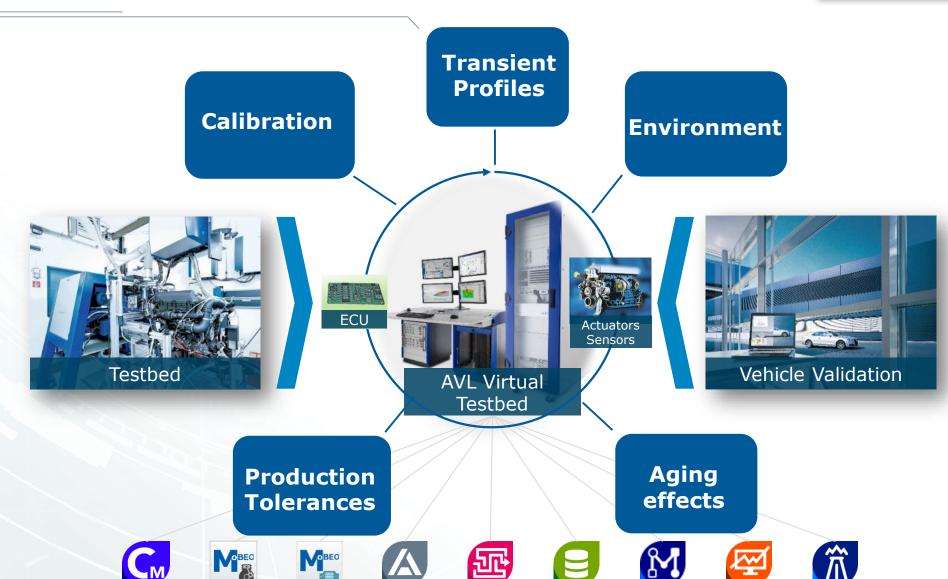
AVL E-Storage





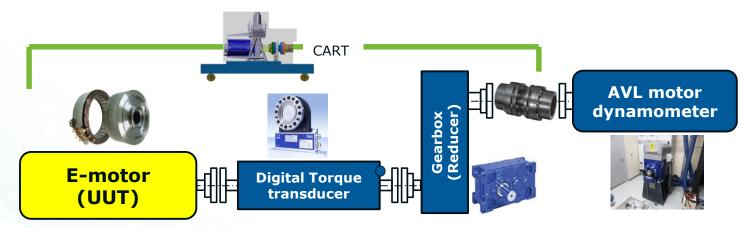


Virtual Testbed Engineering





Two approaches for E-Motor testing



1. Gearbox solution

2. E-Motor testbed solution



Global & local network





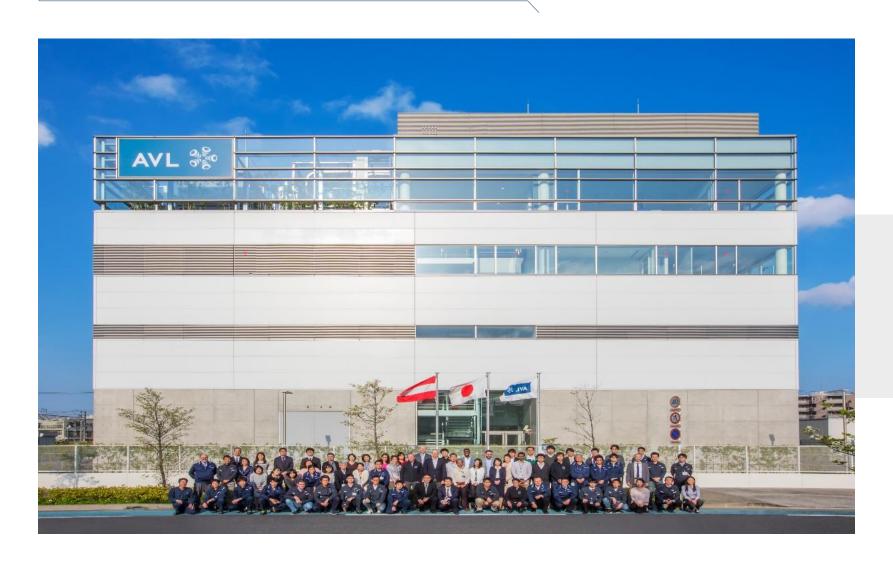








AVL Japan - JTC



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http://www.avl.co.jp/