AVL in Japan
Global Partner for Global OEMs
Facilities – Japan Technical Center (JTC)

4 Dyno Powertrain & Vehicle Testbed (PTTB)

Passenger Car Engine Testbed (ETB)

Commercial Vehicle Engine Testbed (ETB)

Virtual Testbed (HiL)
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
- Liaison Management
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%.

…. and AVL is ready to support this strategy
PTTB - Electrification

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

⇒ "E-Integration Test system"
Virtual Testbed Engineering

- Calibration
- Transient Profiles
- Environment
- AVL Virtual Testbed
- Production Tolerances
- Aging effects
- Testbed
- Vehicle Validation
- ECU
- Actuators
- Sensors
- AVL
Two approaches for E-Motor testing

1. Gearbox solution

2. E-Motor testbed solution
Global & local network

- Over 4000 powertrain development experts
- Out of more than 10,400 AVL employees
- 45 Technical Centres & Engineering Offices
- Over 80 locations
- Over 1500 projects per year
- 70 years of engineering experience
- Over 250 testbeds

One partner

[Map showing AVL locations in Japan with cities marked: Tokyo, Osaka, Nagoya, Kobe, Hiroshima, and other major regions]
AVL Japan - JTC

Your local PARTNER

2-7, Shinkawasaki, Saiwai-ku, Kawasaki

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