

AVL Global Vehicle Benchmarking

AVL program for vehicle testing & benchmarking in a competitive landscape of 150 newly released vehicles worldwide

A specific, distinctive vehicle attribute branding is essential to make cars unique and competitive. As a first step on the way, vehicle manufacturers have to benchmark their vehicles in the competitive environment in order to understand and to strengthen or improve the potential of their vehicles.

AVL newly offers a comprehensive vehicle benchmarking analysis of the most important, recently released passenger cars. The objective assessment delivers an overview of results for ten main attributes in a competitive scatterbands of >150 vehicles:

- Performance
- Drivability
- Advanced Driver Assistance Systems (ADAS)
- Sound / NVH
- RDE: CO₂ / Real life fuel consumption
- Pollutant emissions
- Friction
- Thermal, energy management
- Vehicle dynamics, handling
- Ride Comfort

Goals

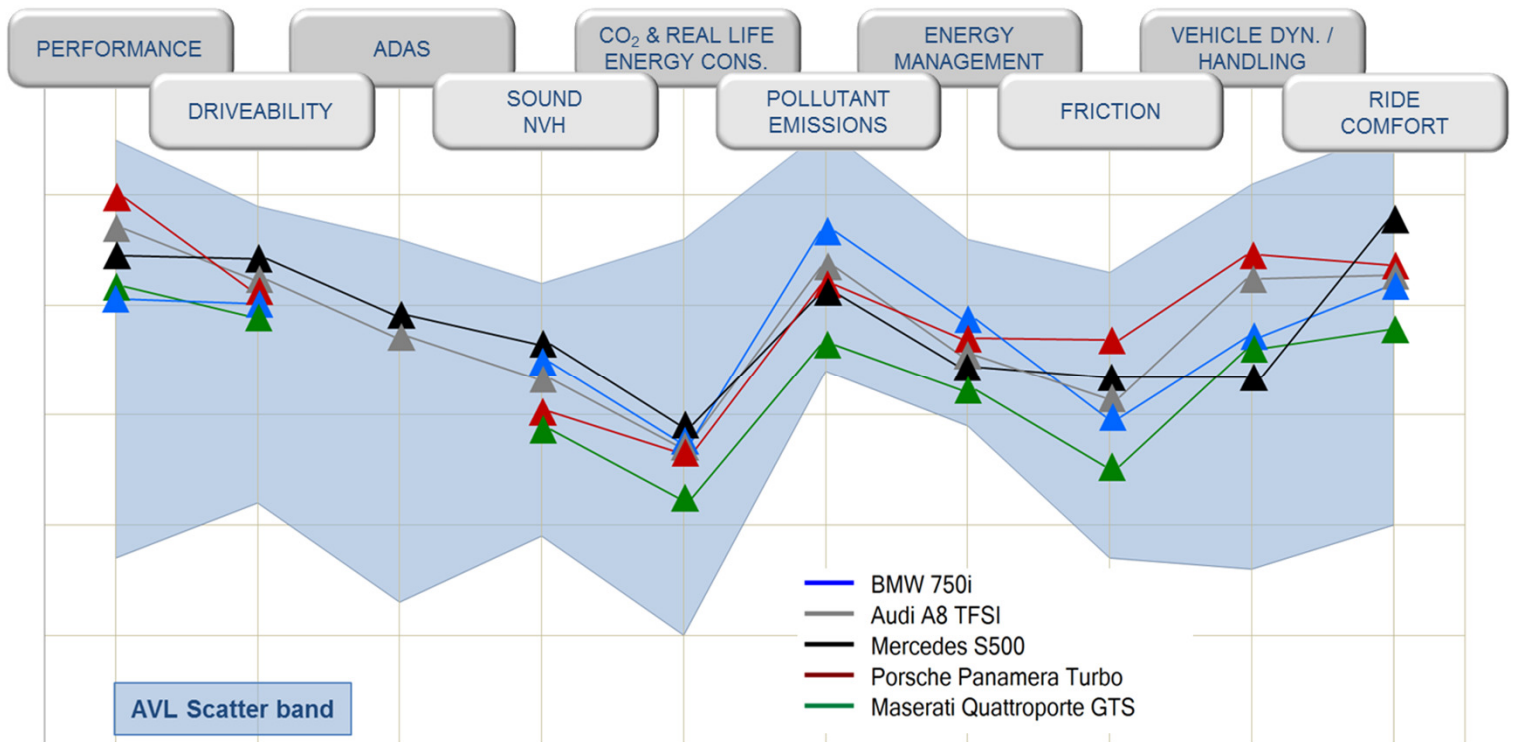
Definition of development targets for new models
 Information about best in class behavior
 Basis for model revisions

Deliverables:

Measurement data and report, highlighting the strengths and weaknesses within the competitor scatter bands

Customer benefits:

- Fast and cost efficient due to pre-defined processes
- Objective comparison based on the largest vehicle data base industry-wide (> 150 vehicles)
- Competent analysis and objective target definition and target tracking based on proven tools (AVL-DRIVE, VSM) in combination with AVL's engineering expertise
- Easy working through implementation of the project results in the customer development process
- Highest quality and integrated competence of an engineering partner experienced in powertrain and vehicle as well



Results of competitor cars in AVL Scatter band

Deliverables - Data

- **Performance:**
result matrix and DRIVE data format (*.adt file)
- **Driveability:**
complete result file of DRIVE (*.adt or *.txt)
- **ADAS:**
result file of DRIVE ADAS (*.adt or *.txt)
- **Sound / NVH:**
complete result file (*.txt)
- **Real life fuel (energy) consumption:**
results, categorization of driven modes (*.adt or *.txt), driving cycle
- **Pollutant emissions:**
overall result and results of single phases (tail pipe) of all relevant emissions
- **Energy management:**
energy flows (current) during the test cycle (eg. NEDC, WLTC)
- **Friction:**
road resistance values, coast down relevant data
- **Vehicle dynamics / Handling:**
result file of DRIVE Handling (*.adt or *.txt)
- **Ride comfort:**
result file of DRIVE RideComfort (*.adt or *.txt)

Deliverables - Report

- Results of all ten vehicle attributes in the competitive landscape (AVL scatterbands)
- Highlighting strengths (target area) and weaknesses (potential for improvement or even risk of negative customer feedback)
- Technical vehicle data
- Test matrix
- Channel list

Options

- Detailed technical analysis and root cause analysis
- Customized test cycles (incl. customer exclusive reporting)
- Testing of prototype vehicles (customer exclusive)
- Customer can provide test vehicles to receive cost compensation
- Drive competitor cars yourself at your site

FOR FURTHER INFORMATION PLEASE CONTACT:

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