

AVL

# AVL Autonomous Driving and ADAS

Accelerating towards a safe autonomous future

Using our comprehensive expertise in engineering, simulation and testing, AVL covers everything from system design, integration, calibration and validation services to tools and methods for development and testing. These AVL solutions can be customized to help you realize your ADAS/AD vision.

# AVL AUTONOMOUS DRIVING AND ADAS CAPABILITIES



## SYSTEM REQUIREMENTS

- Tailored development program using a structured engineering process
- AVL's process defines and documents systems requirements & specifications with traceability
- SOTIF and Functional Safety Services
- Total integration of ADAS/AD System



## VEHICLE BENCHMARKING & TARGET SETTING

- AVL-DRIVE™ Autonomous provides objective performance metrics and detailed vehicle parameter information
- AVL's Driving Simulator allows human-in-the-loop concept assessment
- AVL's ADAS/AD tool chain provides precise & human centered definition of vehicle level KPI's



## CONTROL SYSTEMS DEVELOPMENT

- Controller hardware definition, design, component selection, development & integration
- Sensor fusion algorithms, vehicle perception system development and path planning
- Functional integration and actuation control of ADAS/AD systems at the vehicle and subsystem level



## CALIBRATION, VERIFICATION & VALIDATION

- Desktop scenario simulation
- Human-in-the-loop edge case assessment
- Vehicle-in-the-loop simulation and scenario assessment
- Vehicle perception system validation and ground truth recording
- Fleet validation with AVL fleet monitoring
- Calibration efficiency enhancement and KPI confirmation

FIND OUT MORE – PLEASE CONTACT:

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