



AVL DRIVINGCUBE™ from Road to Rig for Efficient and Safe ADAS/AD Testing

The Road Doesn't End Here

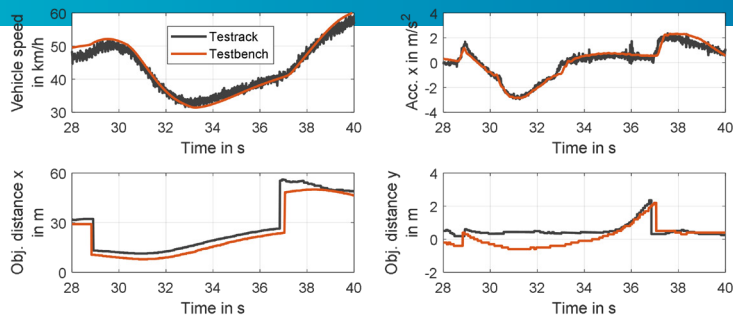
A modular toolbox to master all challenges for testing automated vehicles on a testbed — customizable to your needs.

Perform efficient V&V for scenario-based testing of ADAS/AD functions, cybersecurity, or failure injection testing — everything within a safe test environment to test potentially dangerous traffic situations.

UPGRADE YOUR TESTBED TO TEST AUTOMATED VEHICLES

For reliable and efficient validation and optimization of ADAS/AD systems at the vehicle integration level, we offer a new testing environment for various use cases. The AVL DRIVINGCUBE™ leverages the AVL Integration Core to merge a chassis dynamometer or powertrain testbed with a virtual environment, enabling the testing of a fully integrated vehicle.

Physical or behavioral sensor models link the control units under test with the simulated environment. This setup enhances efficiency during validation and optimization of ADAS/AD systems, as testbed scenarios are far more reproducible than in the real world. Additionally, vehicle access during operation is straightforward, and critical situations can be safely validated, unlike on real roads.



Excellent Correlation and Repeatability

Longitudinal and lateral ADAS/AD control functions show similar behavior on AVL DRIVINGCUBE™ and on Proving Ground.



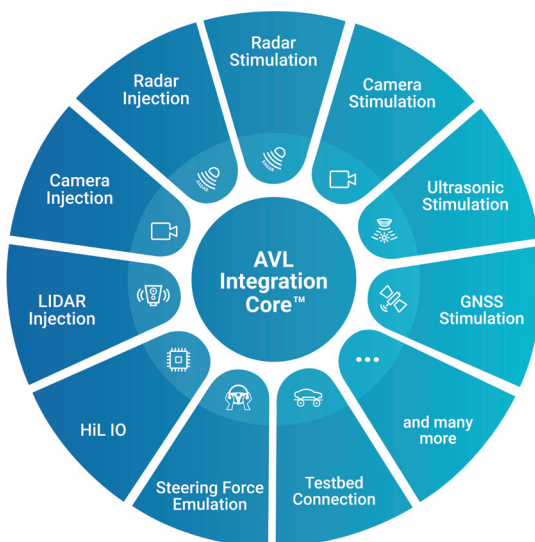
Time Saving

Coupling a virtual environment with a ready-to-drive vehicle allows scenarios to be executed faster compared to Proving Ground testing.



Thanks to the AVL DRIVINGCUBE™ we are able to test ADAS/AD functions more efficiently and reliably in a safe environment.

THE DRIVINGCUBE TOOL BOX – POWERED BY AVL INTEGRATION CORE



YOUR VALUE

- All tests can be conducted at the vehicle level under **highly reproducible lab conditions**.
- **Repetitions and variations** of different maneuvers and scenarios can be performed with high efficiency.
- The **operational conditions**, particularly for critical maneuvers, are **safe**.
- The AVL DRIVINGCUBE™ package for ADAS/AD validation and optimization can be **easily integrated into existing testbeds** as an upgrade.

AVL List GmbH
Hans-List-Platz 1
8020 Graz
Austria

E-mail: drivingcube@avl.com
www.avl.com/drivingcube

