



AVL ZalaZONE Proving Ground

Your partner on the journey to the future of mobility

ZalaZONE – operated by AVL – is a high-tech automotive proving ground in Europe, built on a 250-hectare area next to Zalaegerszeg in Western Hungary, near the Austrian border.

The testing facility combines the conventional dynamic test elements with advanced, unique modules such as the dedicated ADAS surface with local ADAS test services or the 15 ha, forward-looking smart city zone. This unique purpose-built city environment is ideal for testing ADAS, AD, and V2X systems. At AVL ZalaZONE you can conduct a wide variety of tests on many types of vehicles, including passenger cars, commercial vehicles, special fleet vehicles and 2 wheelers.

The layout of the proving ground was determined by industrial requirements aiming to fill the gaps on the European proving ground market, and it offers comprehensive solution to OEM's and TIER 1 suppliers on the best value for money ratio.

AVL ZalaZONE is a testing facility not only for vehicles but also for ICT companies developing HW/SW for cellular 5G and ITS (Intelligent Transportation Systems) standard

wireless G5 technology. With its own 5G cellular tower the proving ground offers a high level of network quality, coverage and supporting technology. This allows not only to collect real-time test data, but to execute “simultaneous digital twin scenarios” where you can replicate the connected vehicle's virtual and physical tests concurrently in an interactive virtual/augmented reality mode.

Why AVL ZalaZONE is the most comprehensive and future oriented testing environment?

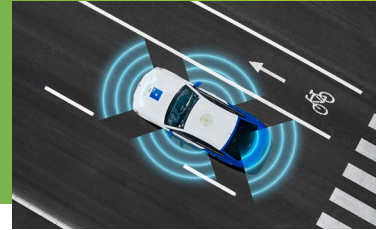
- Groundbreaking possibilities for ADAS/AD/CAV testing with on site equipment (AB Dynamics)
- Proving ground combined with AVL's engineering and testing solution
- Test driver service
- Dynamic Ground Truth testing equipment
- Pass-by noise measurement equipment
- Closed 5G campus network
- Local NTRIP RTK correction
- No axle load limitations on any track element
- Connected modules (e.g., platooning scenario: ESP test on braking platform then proceed to the motorway section at max. 130 km/h)
- Free 3D models of ZalaZONE modules



Smart City Façade



NCAP scenario



Testing infrastructure of ADAS systems

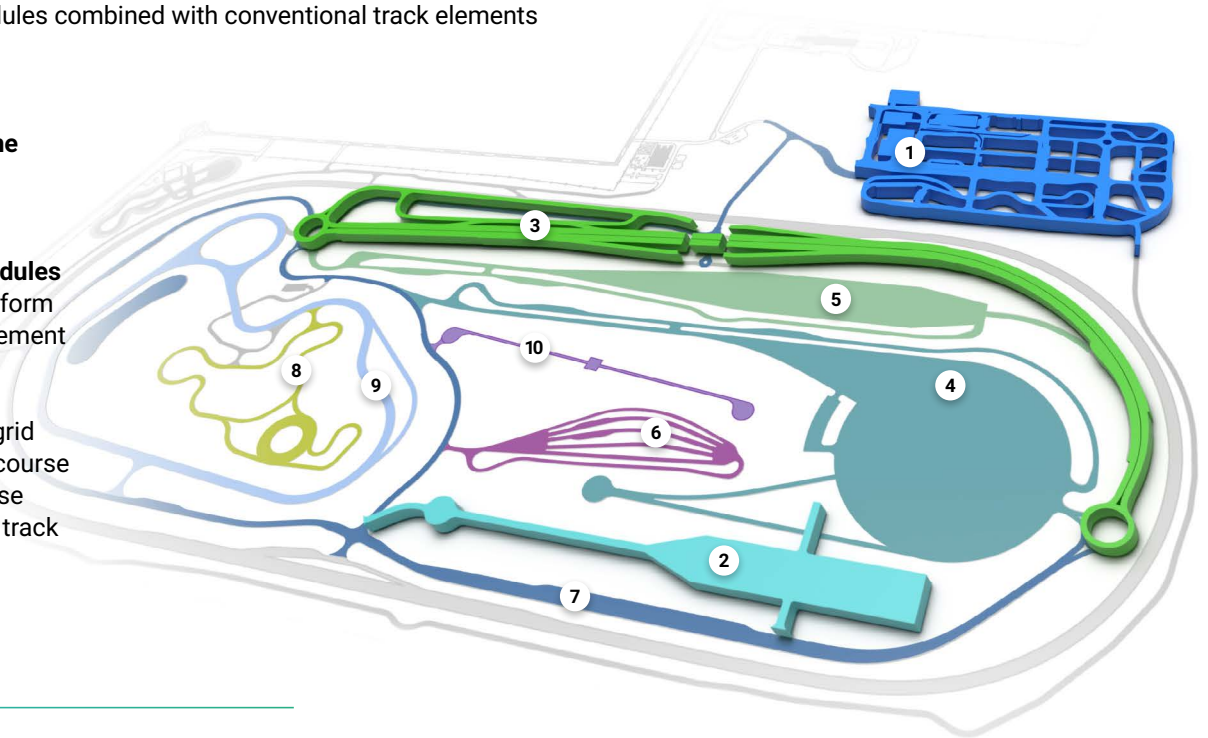
ZalaZONE was designed to focus on the future:
Unique track modules combined with conventional track elements

Unique modules

- 1 Smart city zone
- 2 ADAS surface
- 3 Motorway

Conventional modules

- 4 Dynamics platform
- 5 Brake measurement surfaces
- 6 Hill tracks
- 7 Country road grid
- 8 Wet handling course
- 9 Handling course
- 10 Pass-by noise track



FUTURE DEVELOPMENTS WITHIN THE ZALAZONE ECOSYSTEM

- High-speed oval and off-road modules
- Flexible traffic lights system in the smart city zone
- Complex sensor modules along the ZalaZONE motorway
- Exclusive testing on public road (M76 highway) on demand – up to SAE level 4
- EMC and climate chamber for passenger and heavy-duty vehicles
- ZalaZONE park with further industry partners
- On-site accommodation



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FIND OUT MORE

AVL ZalaZONE Proving Ground Ltd., ZalaZONE Square 1, 8900, Hungary
Bence M. Kiss, Key Account Specialist
Phone +36 30 354 5289
E-mail bence.m.kiss@avlzalazone.com | info@avlzalazone.com

www.avlzalazone.com