



# 1<sup>ST</sup> CORAI SUMMIT ON THE FUTURE OF AUTONOMOUS MOBILITY



European Committee  
of the Regions

BRUSSELS, 9/10/2019

ZalaZONE project and the trilateral co-operation

Dr. Andras Hary

# OBJECTIVES OF THE PROJECT

- **Capacity constraints** in Europe in area of vehicle dynamic testing
- **Technology change** in vehicle industry – single vehicle vs. co-operative vehicle control: different development environment is required
- **Decision of Hungarian Government** in 2016: „*contribution to the European automotive community*”
- ZalaZONE: Test field for **classic, automated and connected vehicles** in Hungary



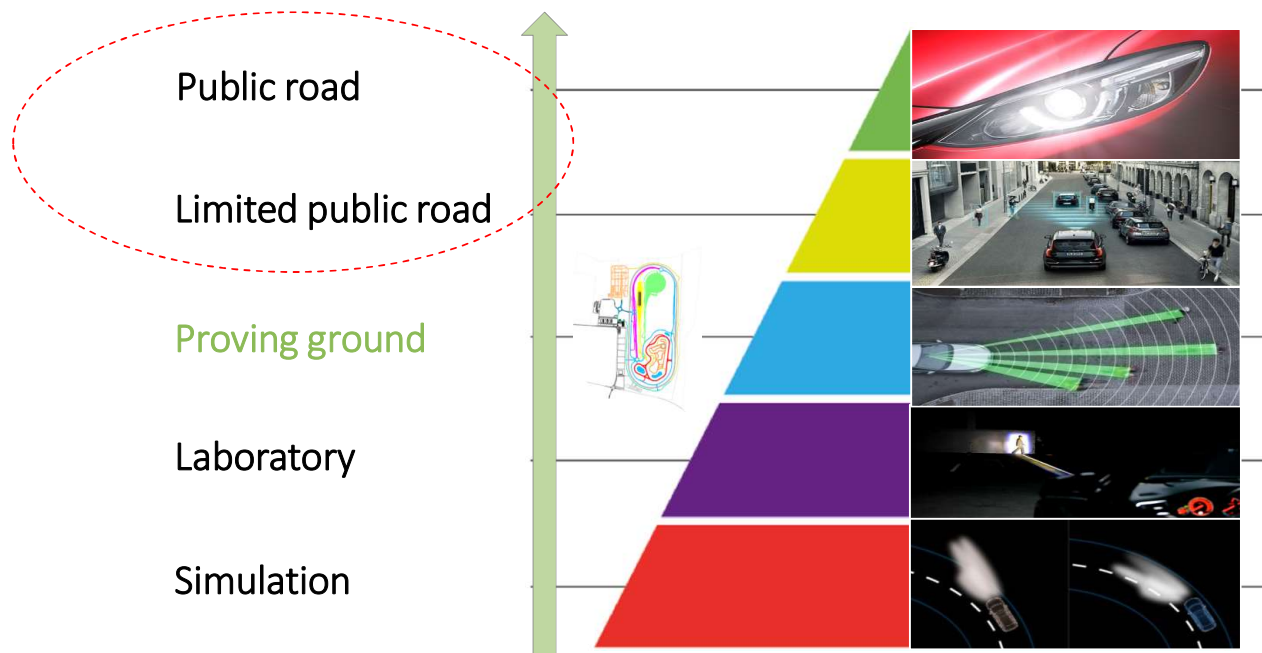
A unique combination of classic proving ground functions and testing opportunities for connected, automated & autonomous vehicles.

# PROJECT REALIZATION



- 2nd phase in-progress (ready in 2020):
  - ❑ Braking platform
  - ❑ Smart City completion
  - ❑ Highway section
  - ❑ Rural road
- 3rd phase: 2020-2021

# SERVICES AND STAKEHOLDERS



- Industrial and R&D (public) users
- Automotive and related (ICT sector)



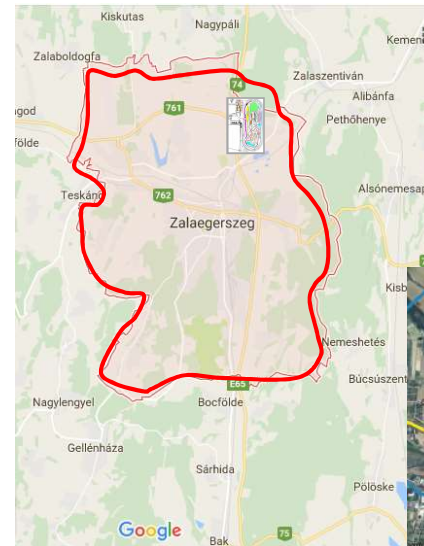
# OUTSIDE THE BUILT TESTING ENVIRONMENT (1)



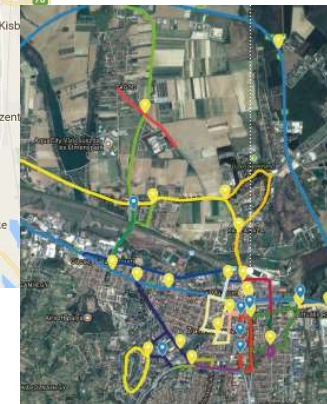
ZalaZONE  
Proving Ground



Test track modules and scenarios for **controlled and repeatable tests** in a safe environment



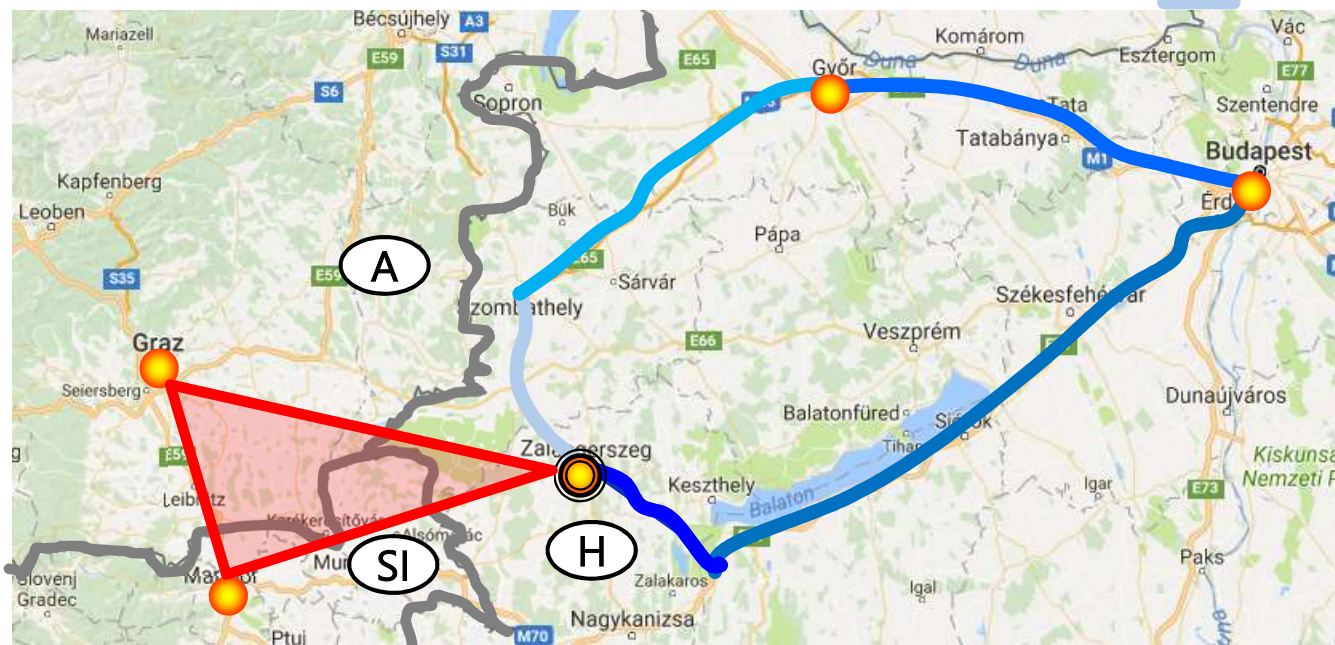
City  
ZALAEGRSZEG



City environment for random **real-life testing**

# OUTSIDE THE BUILT TESTING ENVIRONMENT (2)

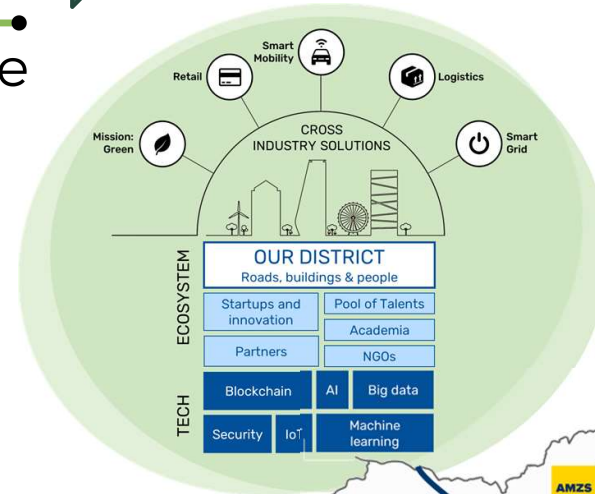
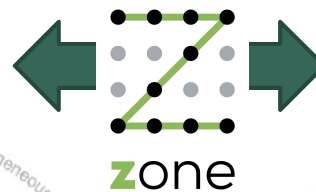
## AUSTRIAN-HUNGARIAN-SLOVENIAN TRILATERAL CO-OPERATION



Loop\_A: Rural roads/highways – smart infrastructure in HUNGARY

Loop\_B: International roads in GRAZ-ZALAEGRSZEG-MARIBOR zone

# TRANSNATIONAL CO-OPERATION FOR INNOVATION



ALP.Lab GmbH Austrian LV Proving Region for Automated Driving – non confidential 25

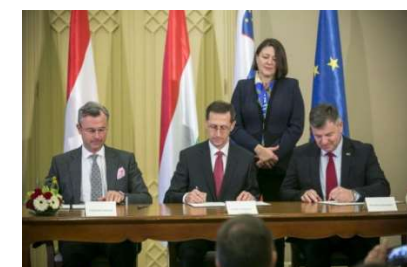


1<sup>st</sup> CoRAI Summit on the Future of Autonomous Mobility



# TRANSNATIONAL CO-OPERATION FOR INNOVATION

LEVEL	Purpose	Party HUNGARY	Party AUSTRIA	Party SLOVENIA
<b>Governmental</b>	<i>Set-up governmental and diplomacy support to the cross-boarder initiative</i>	Hungarian Government	Austrian Government	Slovenian Government
<b>University</b>	<i>Establish education and R&amp;D co-operation in fields of autonomus and electric vehicles</i>	Budapest University of Technology & Economics	Teschnische Universitat Graz	University of Maribor
<b>Association</b>	<i>Connect professional networks to enhance opportunities in the tri-lateral co-operation</i>	MAJOSZ	Autocluster Graz	Slovenian Automotive Cluster
<b>Business</b>	<i>Utilize synergies of business programs in testing of autonomus and electric vehicles</i>	Automotive Proving Ground Ltd.	Alp.Lab GmbH	AV Living Lab
<b>Public road authorities</b>	<i>Align legal environment making optimal public road test environment</i>	Magyar Közút Zrt.	ASFINAG	DARS





# MAIN ACHIEVEMENTS

- 1st Trilateral conference – Sep, 2018
- Joint project proposals (BME – TU Graz)
- Cluster meetings & workshops (MAJOSZ, Autocluster Graz, Slovenian Automotive Cluster)
- Co-operations of road operators
- 2nd Trilateral conference – Mar, 2019
- Austrian-Hungarian mirror-R&D call for tender
- Testing of Alp.Lab in ZalaZONE
- 3rd Trilateral conference – Mar, 2020



# AMBITIONS FOR THE FUTURE REQUEST TO:

- European Commission:

1. Austrian-Hungarian-Slovenian trilateral co-operation projects on autonomous mobility
2. Co-operation with other automotive regions (CORAI)
3. EU-level approach for global automotive challenges
4. Competitiveness of EU automotive sector, in respect of the technology transformation in-progress



# CONTACT

Dr. Andras Hary

Managing Director

Automotive Proving Ground Zala Ltd. – *ZalaZONE proving ground*

[andras.hary@apz.hu](mailto:andras.hary@apz.hu)

+36 30 489 7422



1<sup>st</sup> CoRAI Summit on the Future of Autonomous Mobility

