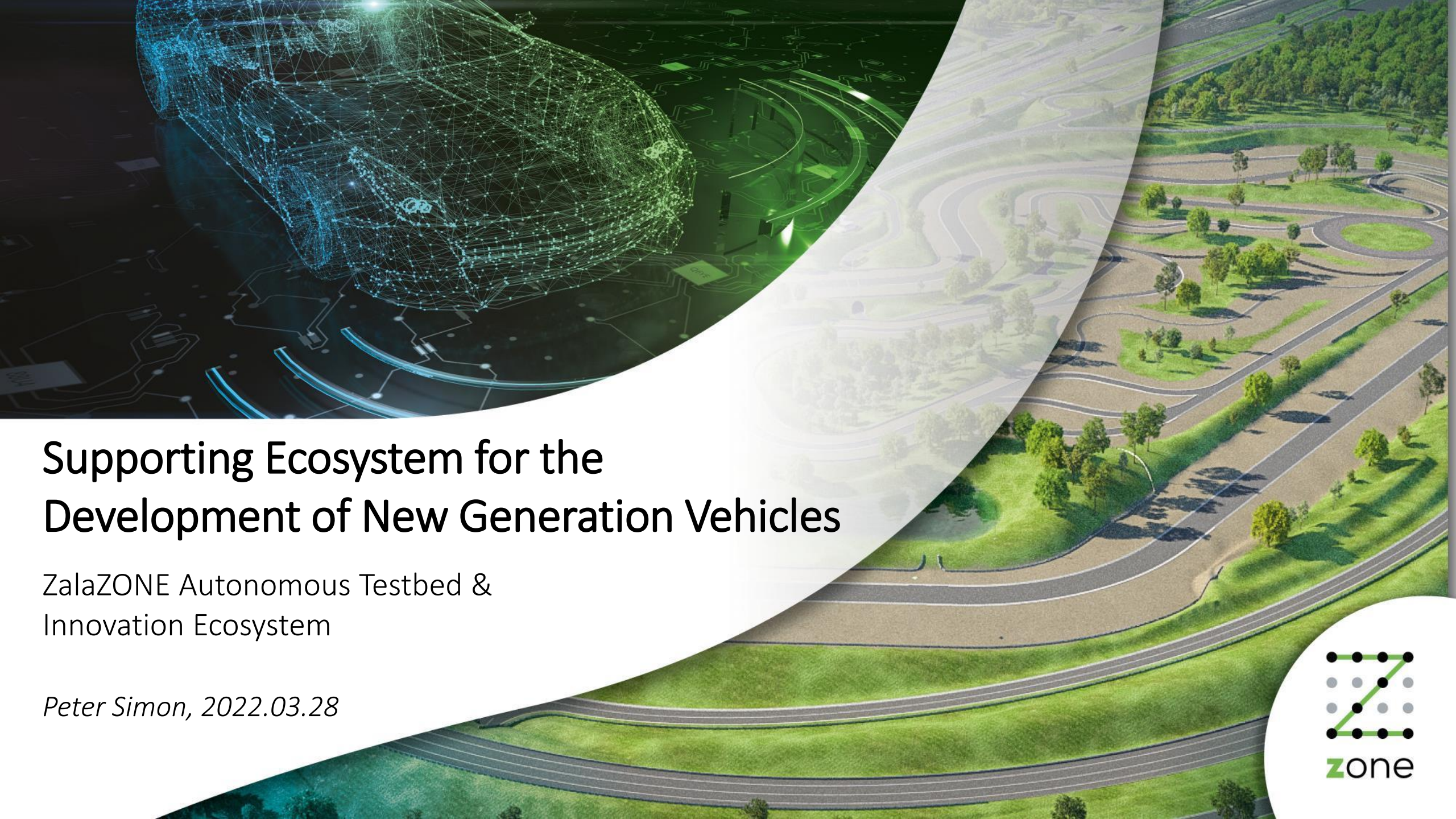


Supporting Ecosystem for the Development of New Generation Vehicles

ZalaZONE Autonomous Testbed &
Innovation Ecosystem

Peter Simon, 2022.03.28

zone

The innovation Ecosystem today

The innovation ecosystem is the sum of participants, activities, products, institutions and relationships, including complementary and alternative relationships, relevant for the precipitation of innovative creation" - Granstrand & Holgersson, 2020

An innovation ecosystem can include a system of participants with cooperative (complementary) and competitive (substitute) relationships, with or without any significantly defining corporation or company at its centre.

Collaboration instead of competition!

ZalaZONE – basic conception

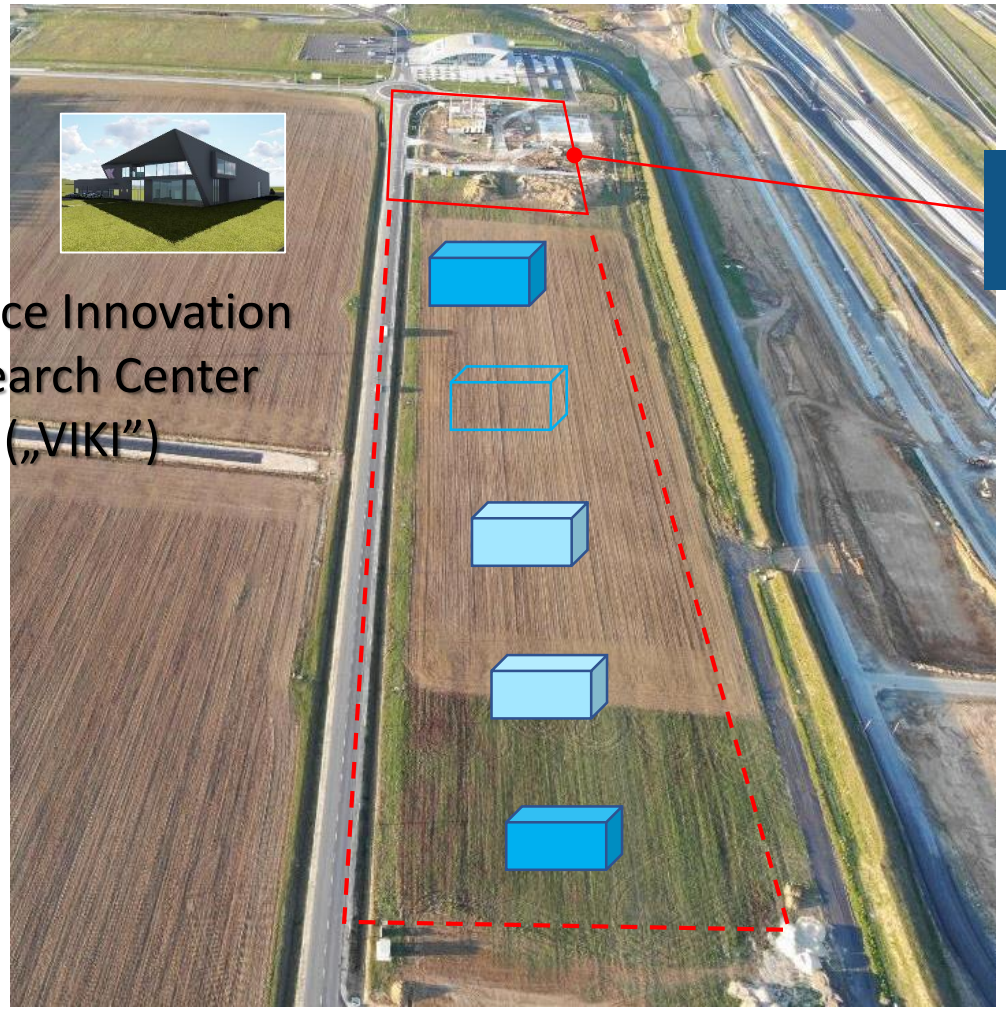
- growing trends in automated vehicle control technologies
- limited vehicle testing and validation capacities
- basic infrastructure covered by Government project
- project collaboration coordinated between industrial and academic partners

Testbed-Proving Ground project

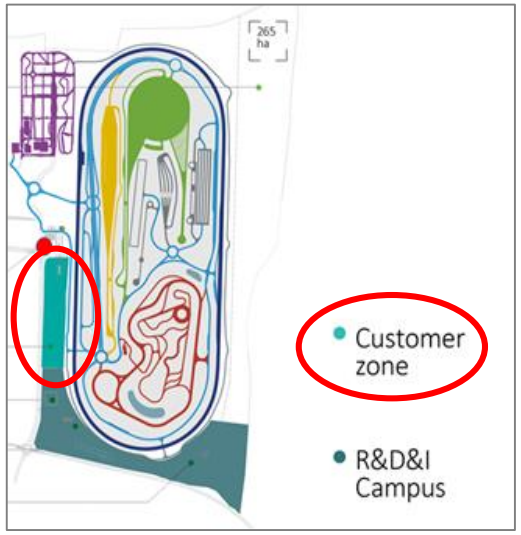
ZalaZONE Science Park & Ecosystem Concept

- Infrastructure
- Equipment
- Knowledge & competence
- Manpower

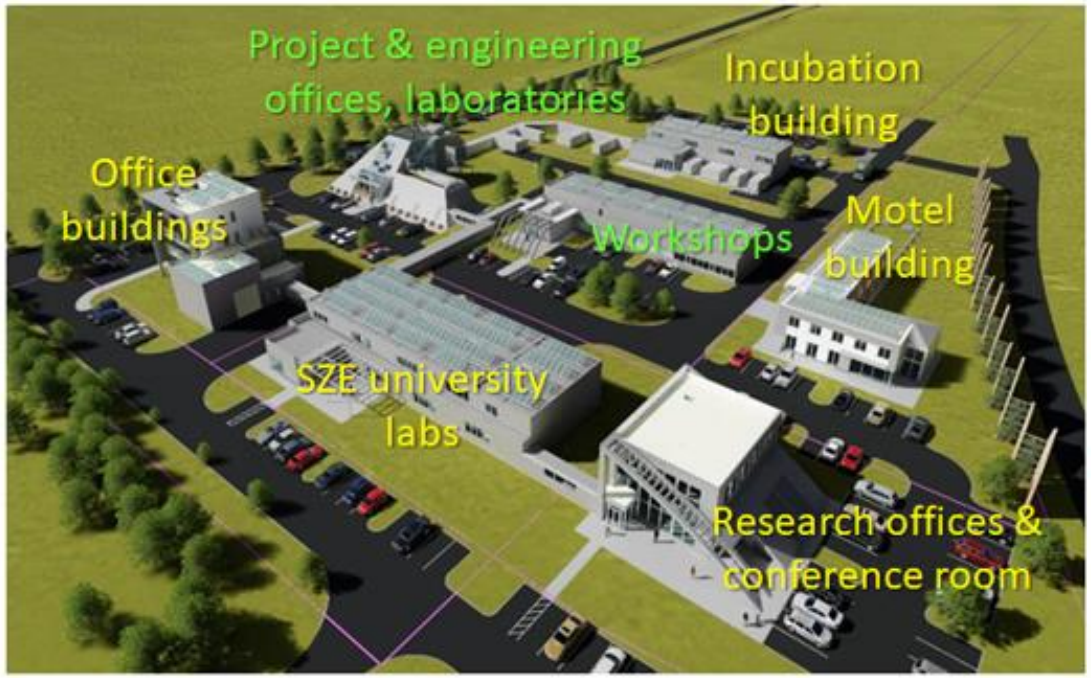
Industrial partner R&D centre localization

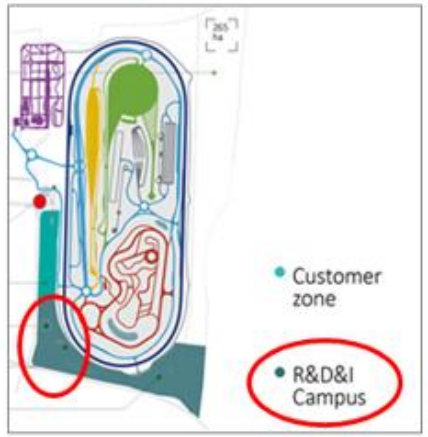


Defence Innovation Research Center („VIKI")



ZalaZONE R&I Centre – University Campus





CAPABILITIES:

- ❑ Vehicle simulation
- ❑ Radar-senzor-camera
- ❑ Vehicle measurements
- ❑ Industrial systems
- ❑ Material analysis lab

FUNCTIONS:

- ❑ University groups
- ❑ SMEs
- ❑ R&D projects
- ❑ Industrial services
- ❑ Labs
- ❑ Trainee program

RESOURCES AND COMPANIES IN-SITE

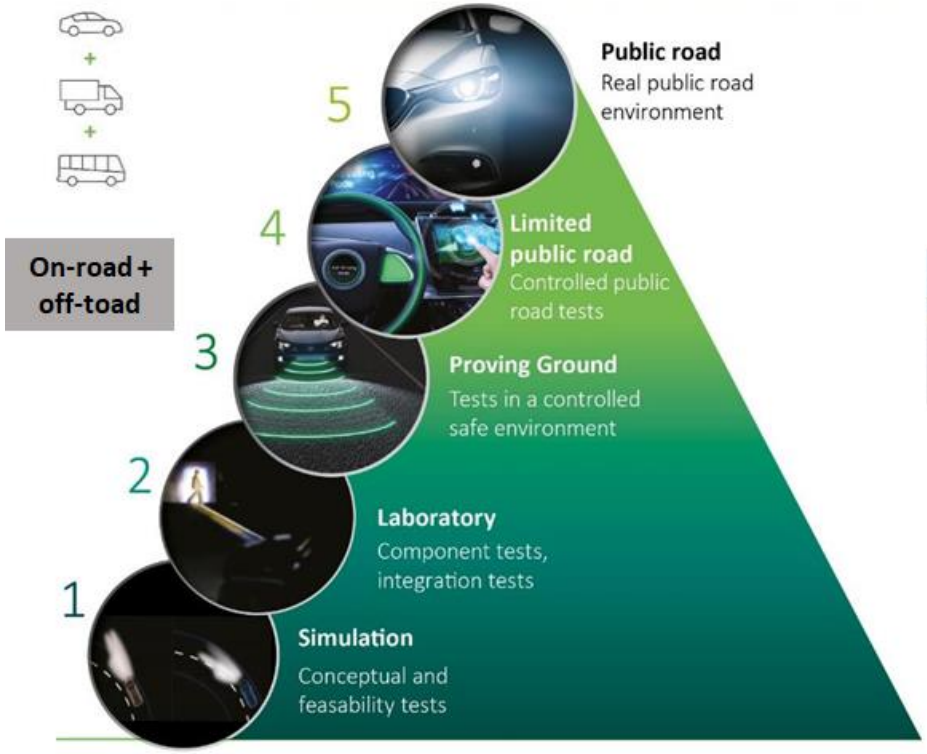
TECHNOLOGY PARTNERS

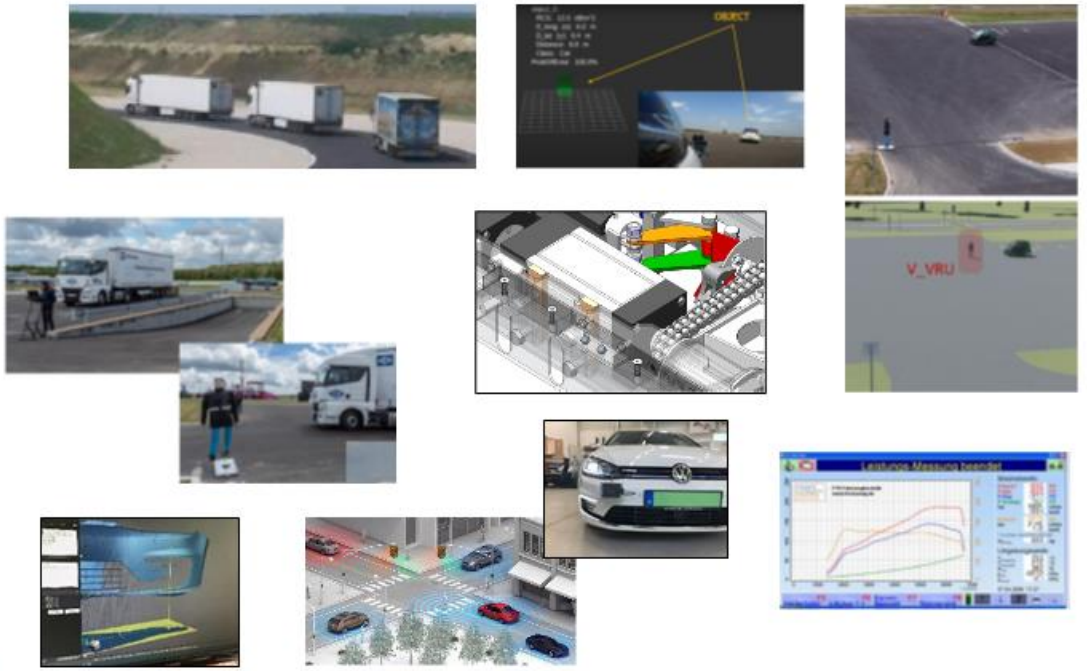
R&D INSTITUTIONS BACKGROUND

PUBLIC ORGANIZATIONS, ASSOCIATIONS

Ecosystem Research & Innovation Focus

Complex technology & competence portfolio for industrial developments





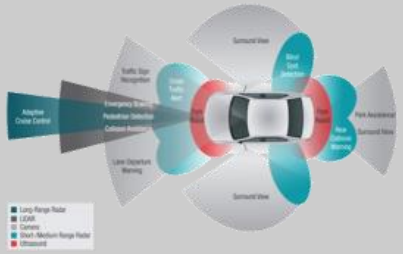
testing • simulation • data • measurements • product plannig • materials • manufacturing

zone

Ecosystem Technology Areas

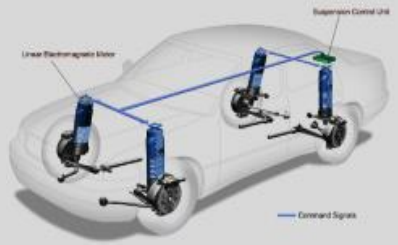
AUTOMATIZATION

SENSORS

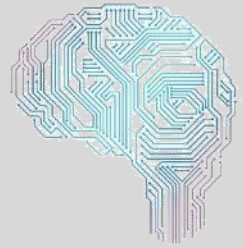


DIGITIZATION

E-MOBILITY



ARTIFICIAL INTELLIGENCE



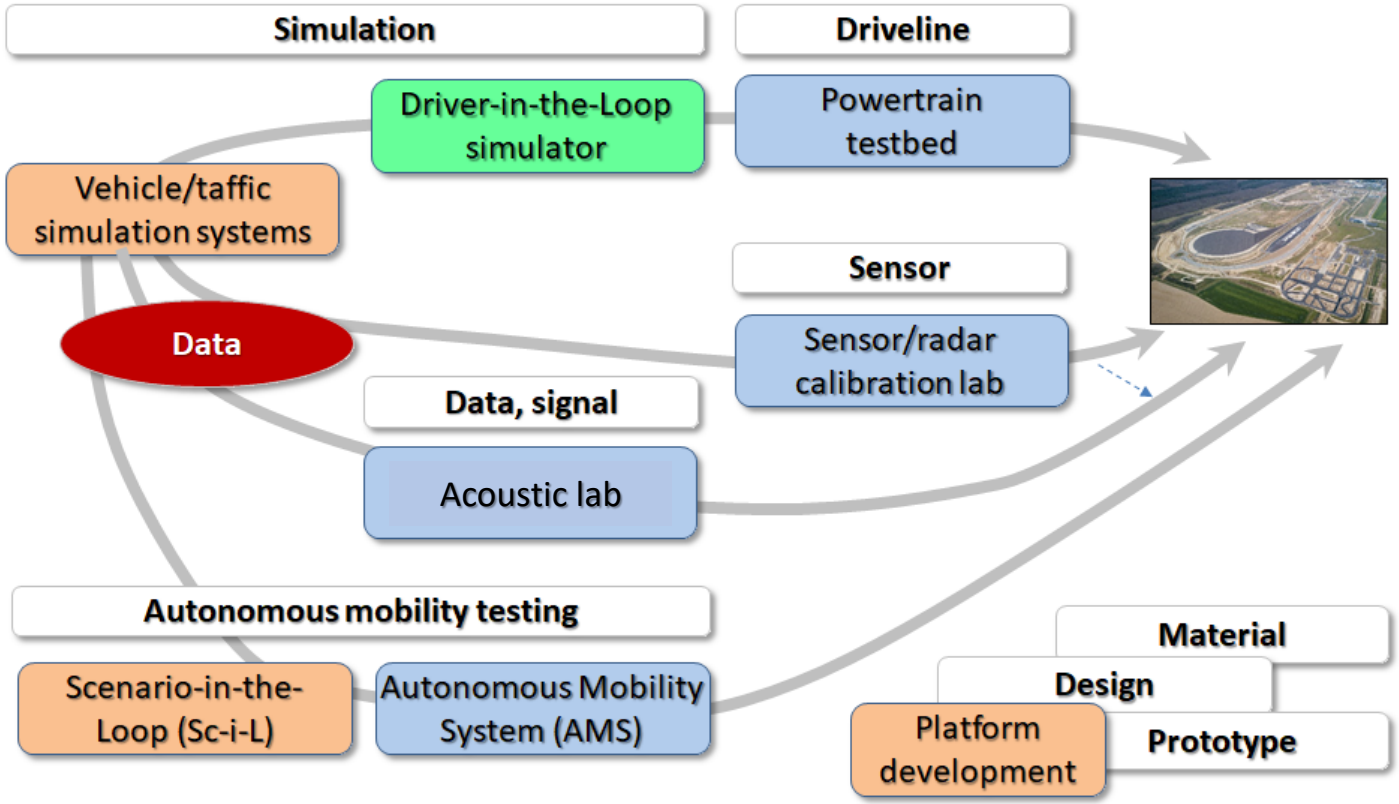
Product testing, validation and development

Areas:

- Autonomous mobility
- Industrial technologies, I4.0
- Connectivity, IoT, Cyber-Physical Systems

zone

Research Activity Portfolio

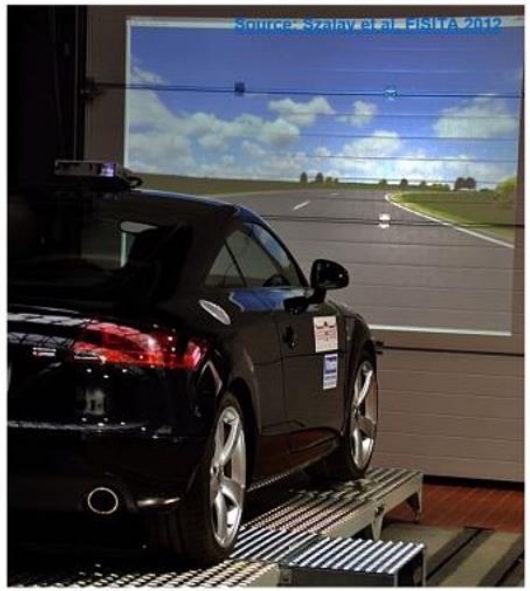


Involved institutions

Laboratory Development

Science Park Labs

- Technology research lab
- Component analysis lab
- System integration lab
- Vehicle-in-the-loop lab



Labs under construction

- ADAS/ADS Sensor Calibration
- Electric Drivetrain Test
- Temperature Test
  - 9x15x9 m
  - -50° ... +80° Celsius
- EMC chamber
  - 20x18x20 m
  - Ø 14 m rotating plate
  - Up to 70 tons of load

Laboratory Development

Hub Dyno labor

Chassis dyno

Radar-sensor-camera calibration lab

Acoustic lab

Other “Ecosystem” facilities

Researcher Accommodation

Start-up Incubation Centre

Lecture Hall & Offices

Ecosystem activities strategic positioning

- Industrial services using existing buildings, equipment, and human infrastructure.
- Industry partner innovation based “extended research” activities using university, science park, & test-bed facilities.
- Supporting the use of the test-bed by the University research groups & partners (including **laboratory/workshop services**).
- Other **specific R&D&I** projects

ZalaZONE Research & Innovation

An overview video

https://youtu.be/yMZkEScJ3Gk

ZalaZONE Contact

THANK YOU

Peter Simon
Research & Innovation Commercial Specialist
Széchenyi István University
SZE JKK Laboratories – ZalaZONE

Mobil:+36 30 128 8484
E-mail: simon.peter.anthony@sze.hu

ZalaZONE Industrial Park Zrt.
H-8900 Zalaegerszeg, Dr. Michelberger Pál út 3.
www.zalazone.hu

ZalaZONE *ecosystem… providing a location that FOSTERS innovation and the development & COMMERCIALISATION of technology where governments, universities, and private companies may COLLABORATE!*