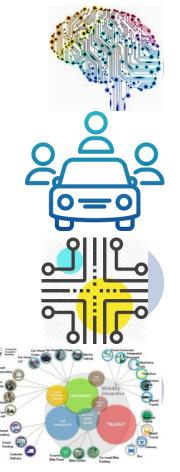
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Austria as Test Region for Automated Driving From Test Sites to Learning Environments



Why?

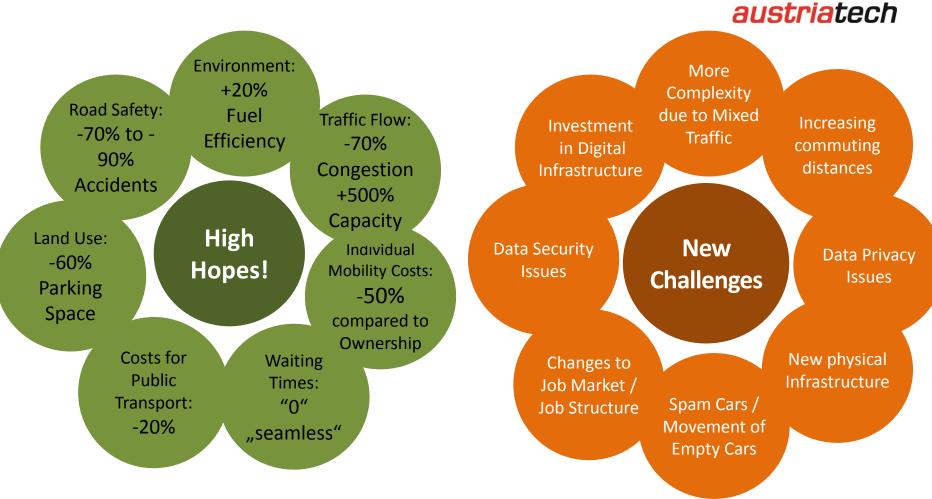


a technological tipping point

a vehicle manufacturer makeover

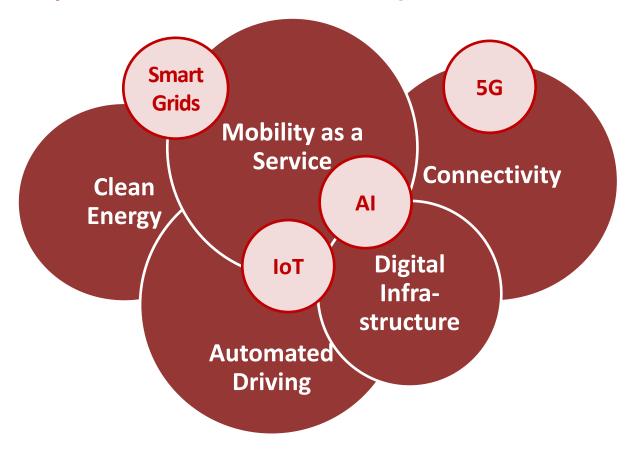
an infrastucture rollout

a public sector coming of age



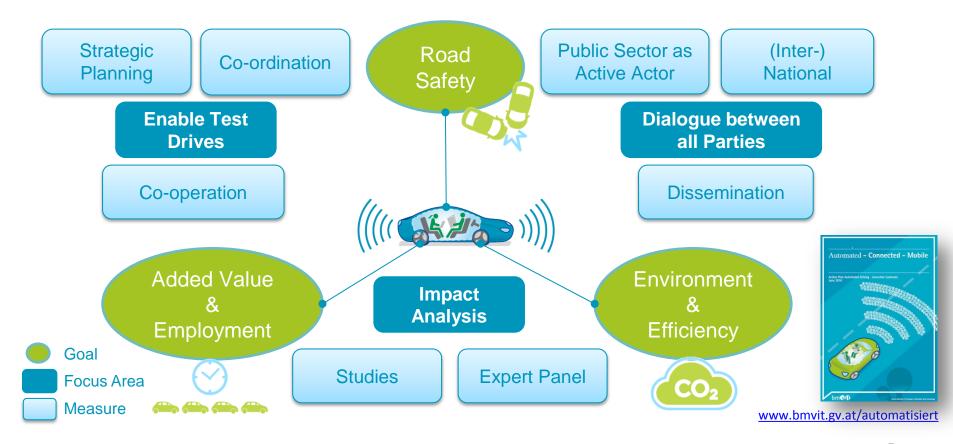
the Mobility Transition Landscape





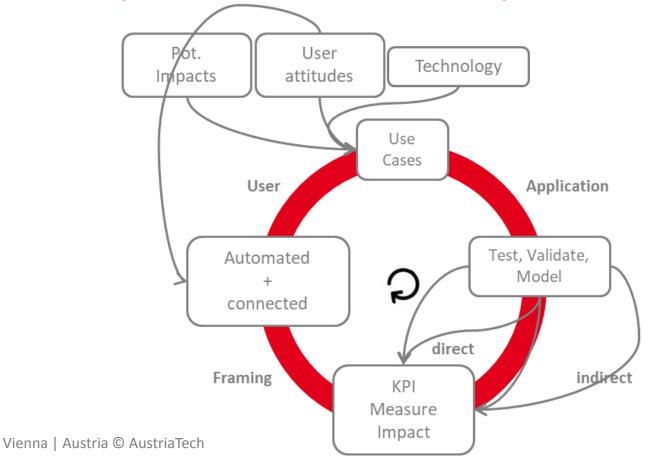


Action Plan: Automated – Connected – Mobile





From expectations towards experiences!



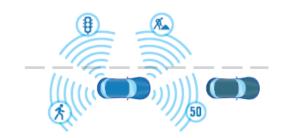
Challenges:

- Scenarios
- Data Handling
- Comparability
- KPIs
- ...

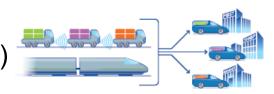
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Use Cases & Application Scenarios

- #Flex'n Easy (Automated Last Mile)
- #Safety+ (Connected ADAS)
- #Transport Works (Connected Freight & City Logistics)
- #Create Time (Highway Chauffeur +)
- #Stay mobile (Aging and inclusion)
- #Create Space (urban mobility concepts)
- #Special Helpers (Off-Road, Airport, Terminals, ...)









Action Plan: Measures 1/2

- 1. Enable & regulate Test Drives
 - -> Amendment to the Motor Vehicle Act (KFG)
- 2. Development of a Code of Practice
 - = Process Instruction
- 3. Initial Studies for the Construction of Test Environments
- 4. Build Up of Test Environments



Action Plan: Measures 2/2

- 5. Development of a Technology Funding Portfolio
- 6. Ensuring the Digital Infrastructure as a Strength
- 7. Ensuring Scientific Competencies
- 8. Development of Evaluation Tools
 - -> impact analysis
- National Contact Point for Automated Driving





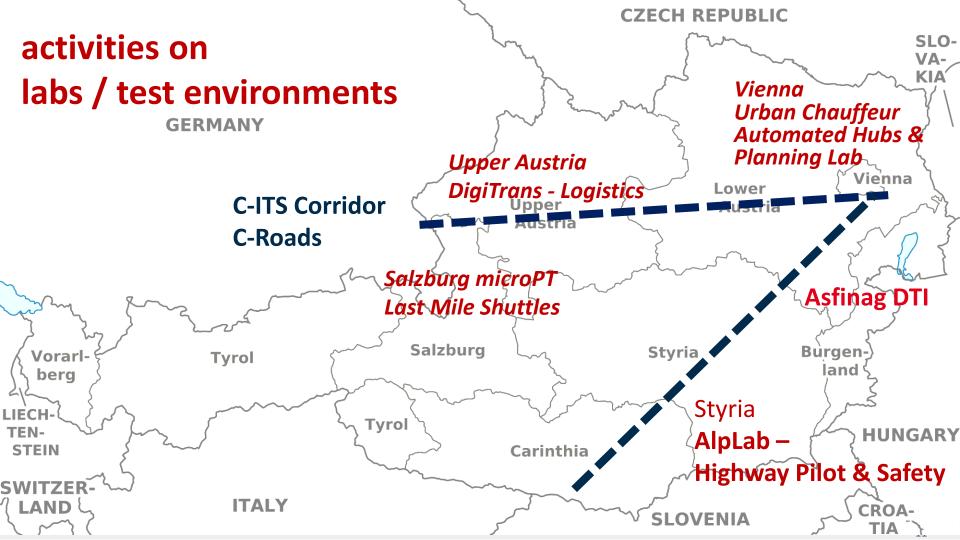
Legal Framework & Learning Environments

Type Approval Law – Legalise Testing

- Specific Regulations for Automated Functions (up to SAE4+)
- Delegated powers for Minister to issue legal regulations
- Code of Practice, International / EU harmonisation
- Standardised Application Form

2. Goals / Conditions of Test Environments:

- Bundled competence development, joint learning for suppliers, OEMs,
 Infrastructure operators and the public domain
- Systematic testing and validation of products, components, vehicles and services
- Focus on prioritized Use Cases
- o Integration of testing and validation aspects → Real life test bench simulation





First implemented Austrian Test Region



Austrian Light Vehicle **P**roving Region for Automated Driving











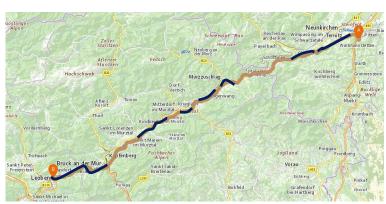




Digital Infrastructure



Vehicle Sensors



Vehicle Sensors & DTI automated manual



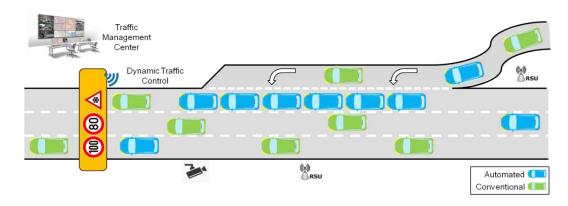
EU Horizon 2020 - INFRAMIX

INFRAMIX

- Enable the coexistence of automated and conventional vehicles in specific scenarios.
- Design, upgrade, adapt and test both physical and digital elements of the road infrastructure.

3 Scenarios:

- Dynamic lane assignment
- Roadworks zones
- Bottlenecks





Test-Environments - Collaboration Needs:

- shared simulation environment and data structure
- common scenario catalogue
- common test procedures & targets
 - Cross-border Collaboration
 - Cross-border Learning

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Thank you for your attention!

AustriaTech – Gesellschaft des Bundes für technologiepolitische Maßnahmen GmbH Raimundgasse 1/6 I 1020 Vienna I Austria I www.austriatech.at

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