Summary & Outlook
Summary

presentation of the PEGASUS Approach

- Filling and classification of scenarios within the database
- Structured identification and derivation of scenarios
- Test-Concept and Variation-Method
- Reflection and Embedding
- Safety Argumentation
- Exchange, Committees, Standardization (national & international)
- Universal Toolchain, especially for Simulation and Proving Ground
- Using Common formats and interfaces
- Presentation of the PEGASUS Approach
Necessary puzzles on the way to automated driving

Legal requirements

Verification & Validation:
- Sensor validation
- Driving Function
- Complete Vehicle
- ...

Standardization

Homologation

... ...
PEGASUS delivers

- Method for the Assessment of HAD-Function (Level 3)
- Exemplary Toolchain which can be Reproduced by Everyone

→ But there are still Open Questions to introduce Automated Driving
Upcoming National & International Activities
Automotive industry’s mission statement and approach towards AD

**Challenges**

- **New competitors**
  are setting the pace in digitalizing processes and products

- **Speed of innovation**
  must compete with ICT sector

- **Digitalization**
  raises requirements of hardware, software and processes

- **Large investments**
  in R&I are necessary bearing high economic risks

**Key Points**

- **Collaboration**
  in precompetitive research and innovation

- **Capacity Building**
  in crucial domains like AI

- **Coherence**
  in innovation policies and programmes

- **Convergence**
  in technology development across programmes and projects

- **Large-scale projects**
  to focus and secure rapid deployment
VDA Leitinitiative

Fields of activity

Stress-free on motorways  Easy parking  Autonomous in urban areas  Safe outside the cities

Vehicle side
Industrial Production  Sensors  Onboard hardware  Onboard software

Out of the vehicle
Backend  Infrastructure

Common development methods and processes
Efficient procedures for testing and certification
New procedures in information processing

Framing conditions incl. ICT
Exchange across projects

Quelle: @City
Large-scale projects and project families

Contact: Marko Gustke, Verband der Automobilindustrie e.V. (VDA), marko.gustke@vda.de
Verification/Validation-Centered Project Ecosystem
Current National Projects & National Projects in Preparation

Verification & Validation / Development Methods

Customer Functions & Use-Cases

Simulation / Test Beds / Proving Grounds / Field Tests

Connected Systems & Data Management

Artificial Intelligence & Machine Learning
Thank you for coming!