Resümee & Ausblick
Add-On-Information

Overview – Print Version

Extended Version – Online

Online - Documentation
Presentation of the PEGASUS Approach

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

- Legal requirements
- Verification & Validation:
  - Sensor validation
  - Driving Function
  - Complete Vehicle
  - ...
- Standardization
- Homologation
  - ...

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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

Made in Germany: The Operating System for Autonomous Driving.

**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

**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
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

FRAMEWORK
TECHNOLOGY
METHODOLOGY
TECHNOLOGY
Large-scale projects and project families

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Verification/Validation-Centered Project Ecosystem

Current National Projects & National Projects in Preparation

Verification & Validation / Development Methods

Connected Systems & Data Management

Customer Functions & Use-Cases

Simulation / Test Beds / Proving Grounds / Field Tests

Artificial Intelligence & Machine Learning
Vielen Dank für Ihr Kommen und eine angenehme Heimreise!