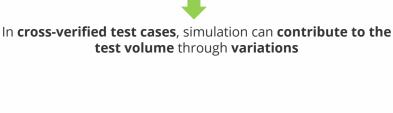
Testing and Safeguarding – Stand 22 VERIFICATION Korbinian Groh, Sebastian Wagner Thomas Kühbeck, Alois Knoll PEGASUS Simulation Database Real World Proving Ground Test **Cross-Verification** Simulation can not be Infeasibility to conduct the validated as a whole and Problem whole test volume on real therefore not be used for roads assessment **Cross-Verification** Solution of scenarios on real roads and simulation

www.pegasusprojekt.de





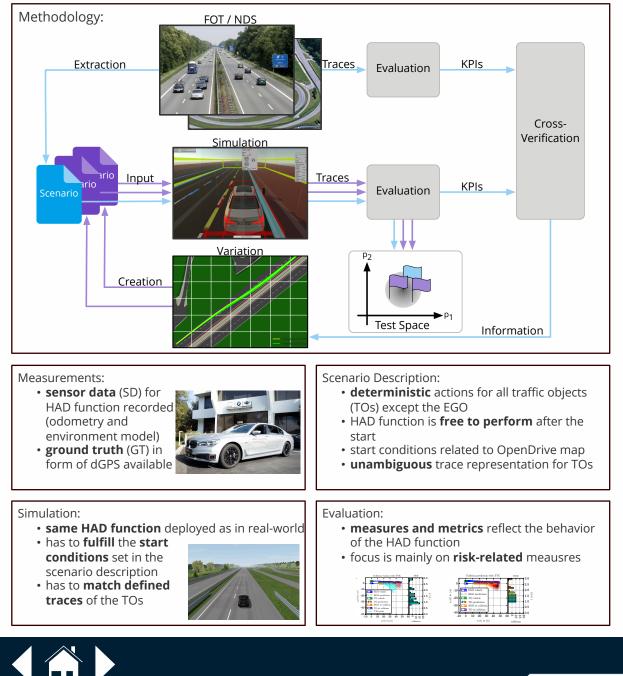
Result



Federal Ministry for Economic Affairs and Energy



## Method for Assessment of Highly Automated Driving including Verification.



Federal Ministry for Economic Affairs and Energy

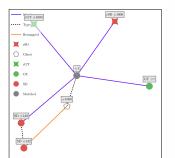
on the basis of a decision by the German Bundestag

Supported by:

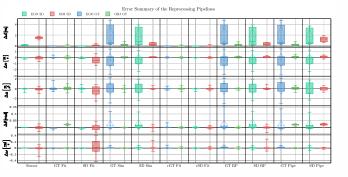




## Cross-Verification:



- **Object matching** between GT, SD and resimulation of both
- Reveals ghost objects and missed detections



- Detailed error analysis throughout the whole pipeline
  Major errors in simulation:
  - ➢ GT: AD function is presented with ideal information in simulation → improved behavior
  - SD: Some sensor errors are corrected by the consistent scenario description → likewise idealized information

Supported by:



on the basis of a decision by the German Bundestag