PEGASUS

Testing and Safeguarding – Stand 25

DEVELOPMENT-ACCOMPANYING PROVING GROUND TESTING

Using standardized scenario description formats for proving ground tests to enable seamless vehicle testing from simulation to real world:



Motivation

- Simultaneous control of multiple vehicles
- Time and location based vehicle synchronization
- Continuous testing from SW in the Loop (SIL) to Vehicle in the Loop (VIL)
- Capability to use the same test equipment on the highway and in urban canyons, for development accompanying testing up to homologation
- Covering different levels of automation up to SAE level 5
- Standardization of a generic interface ISO 22133-1 Standardization for Proving Ground Equipment Communication

Relation to the PEGASUS Test Framework



on the basis of a decision by the German Bundestag



Test cases, designed and obtained from simulation, are adapted to characteristics of the dedicated proving ground for real-world test execution:



on the basis of a decision by the German Bundestag



Proving ground tests with multiple moveable and stationary objects require advanced metrology and safety:



on the basis of a decision by the German Bundestag

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Exemplary execution of a scenario specified in OpenScenrio in simulation and on the proving ground:



Detailed information on the simulation setup can be found at stand 21



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on the basis of a decision by the German Bundestag

Federal Ministry for Economic Affairs and Energy