

# Requirements on the Open-Scenario format

Based on work in the research project **PEGASUS**

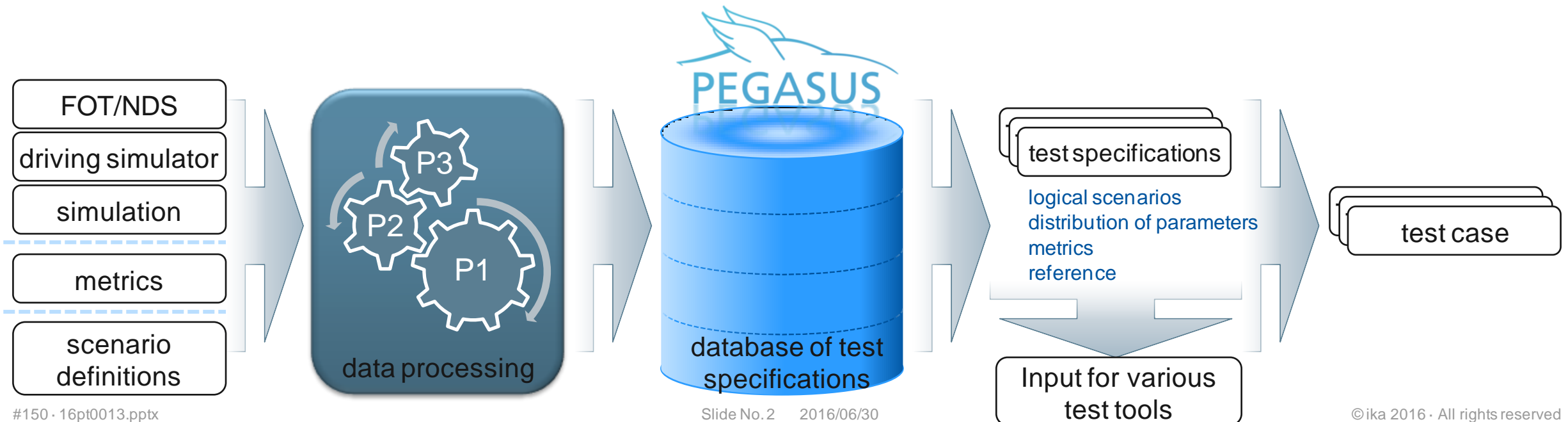
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# Aim of the research project PEGASUS

## Identification of relevant scenarios from various sources

- Aim: identify traffic scenarios relevant for the validation of automated vehicles from various sources
- Method:
  - input data (from FOT etc.) is stored in a coherent format as a defined scenario (konkretes Szenario)
  - metrics are applied to the defined scenarios to assess e.g. the criticality
  - several defined scenarios are clustered to a logical scenario (logisches Szenario)
- Open Scenario so far supports the storage of defined scenarios



# Requirements on the next release of open-scenario

## Enable the parameterization of scenarios

- Provide a way to store logical scenarios (that can be parameterized) in open-scenario:
  - introduce parameters in the existing open-scenario format (e.g. the velocity of a vehicle)
  - parameters should be linked to an external file that contains information on the statistical distribution of parameters as well as information on the correlation of parameter distributions
  - in open-scenario a standard value for the parameter should be given, so the scenario is also defined without the external parameter file
- Provide tools to edit, display and handle logical scenarios:
  - a logical scenario should be edited in the scenario editor
  - the editor needs to be easy to use in order to enable every user to create a relevant logical scenario
  - the distributions and correlations of the parameters should be visualized
  - simulation tools should cope with the logical scenario

# Contact

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