

Final Event 21 / 22 November 2023

Day1 – Stream2:

V&V Test Design, Test Planning and Execution

V&V Concept & Requirements of the Argumentation

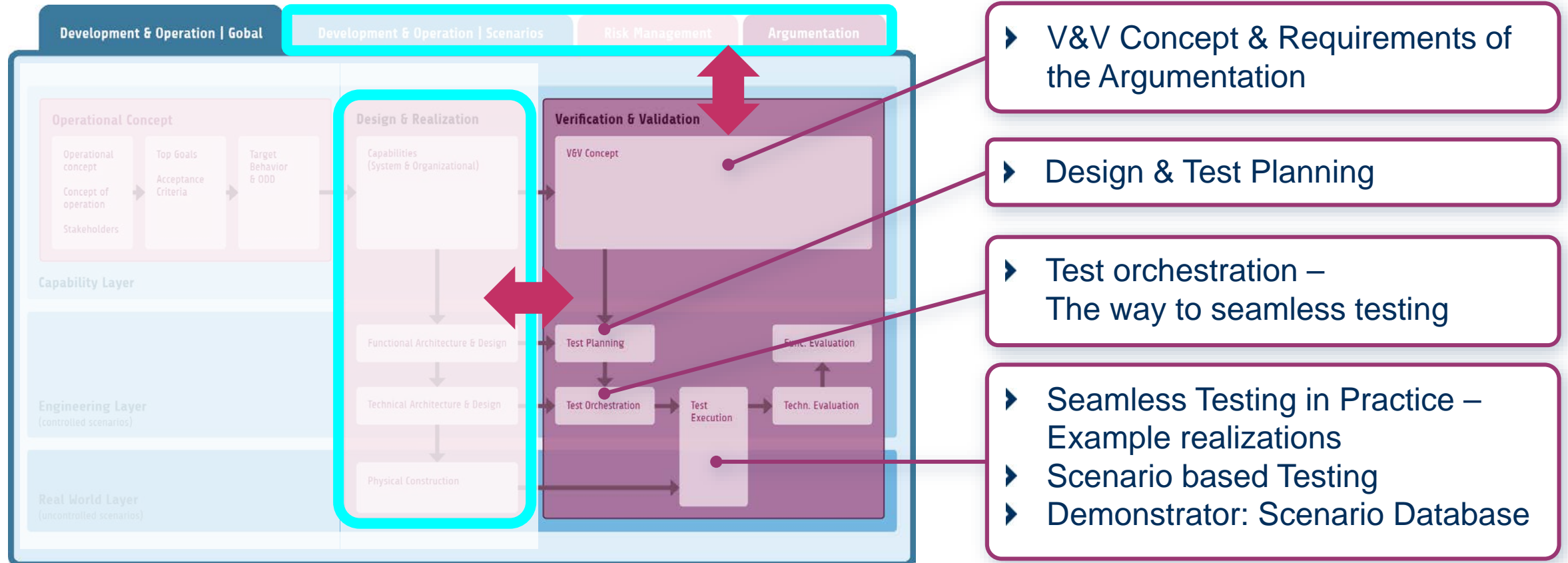
Roland Galbas, Robert Bosch GmbH

Supported by:



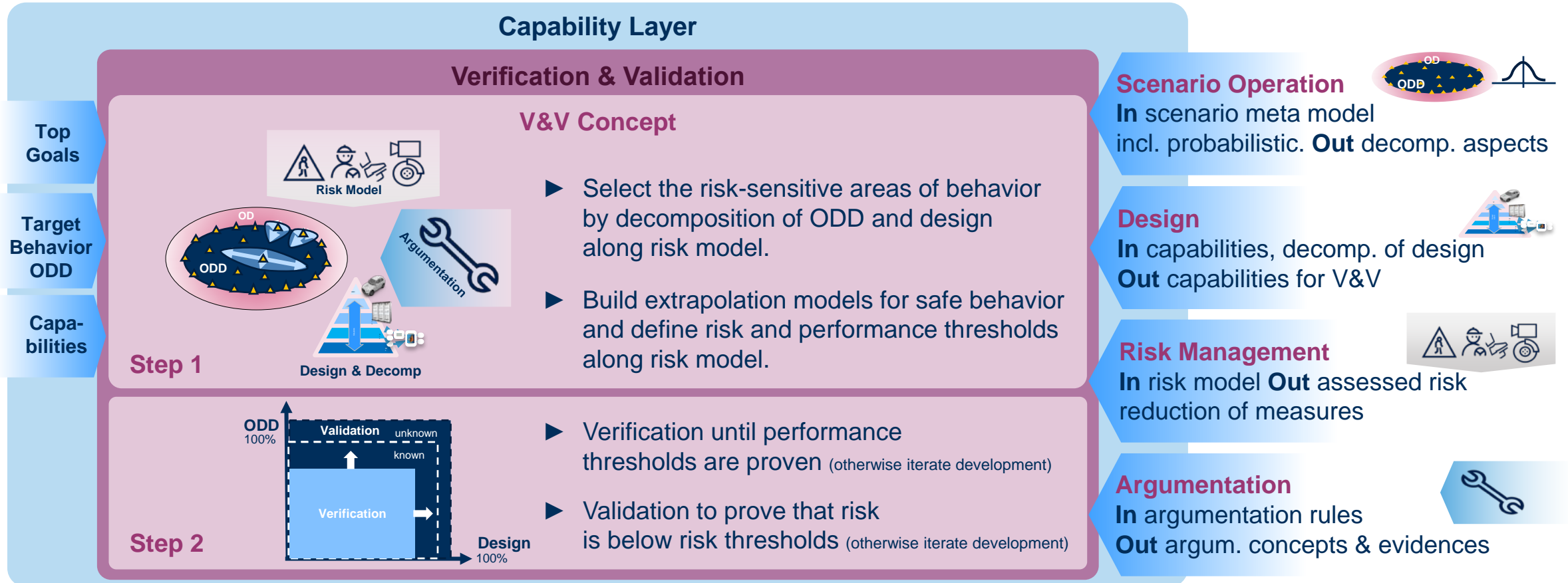
on the basis of a decision
by the German Bundestag

Day1 – Stream2: V&V Test Design, Test Planning and Execution

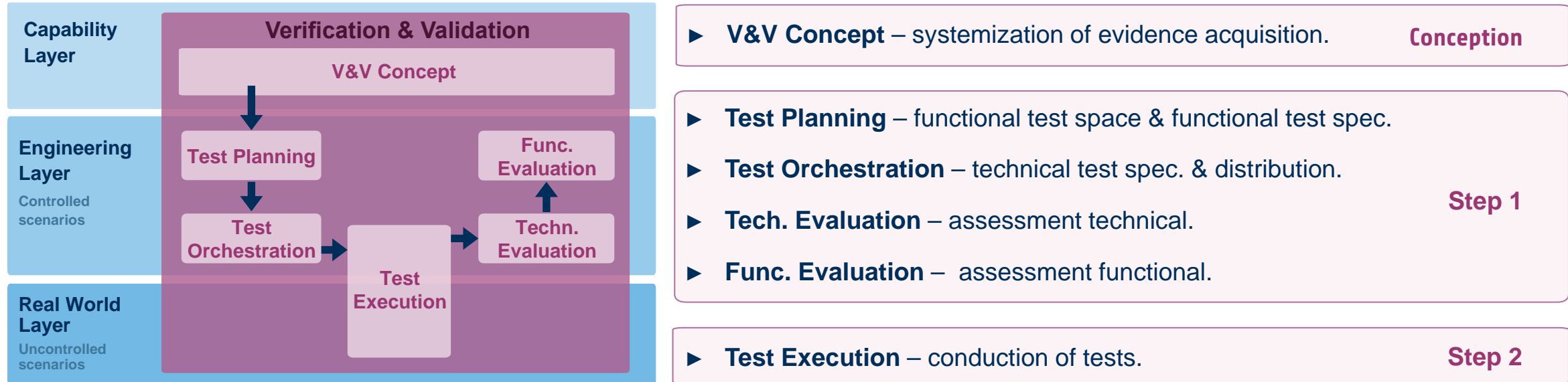


- ▶ Process flow of V&V and the Interaction to Design-Domain and to the other Perspectives.

Scope: Systematize the acquisition of evidences for the argumentation of the safety case according to the main approach.



- ▶ **Scope of V&V Domain** Create evidences for the argumentation of the safety case.



- ▶ **Enabler for handling of complexity and feasibility**

- ▶ Clearly defined interaction to other perspective (scenarios, risk, argumentation).
- ▶ Separation of functional and technical V&V.
- ▶ Separation of verification ▶ [controlled scenarios] and validation ▶ [uncontrolled scenarios].

Scope

- ▶ Of the V&V Domain is to create the acquisition of evidences for the argumentation of the safety case and the Scope of V&V Concept is it's systematization.

Approach

- ▶ Test cases for V&V are generated from the decomposition of the system and the ODD along risk model by selection of risk-sensitive areas of the behavior - following the main approach.
- ▶ The sum of the test cases from V&V at all system levels provides the evidence to argue that the system actual behavior represents the target behavior in the defined ODD and thus meets the TOP Goal “safety by absence of unreasonable risk”.

Main Enabler

- ▶ Clearly defined interaction to other perspective (scenarios, risk, argumentation).

Thank you!

Roland Galbas, Robert Bosch GmbH

roland.galbas@de.bosch.com



A project developed by the VDA Leitinitiative
autonomous and connected driving

Supported by:



on the basis of a decision
by the German Bundestag