



Rail4Future

Projekttitel:	Resilient Digital Railway Systems to enhance performance
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In order to build a large-scale computation platform which enables simulation as a service performance is key. In this project, mathematical functions, methods combining AI and analytical methods required for fast computing, but credible large-scale simulations are being researched and developed to make the R4F platform viable for usage. Since this topic consists of different layers in the system, we gather the different approaches from the different layers of simulation deployment and execution in this report. The layers we discuss are:

- Orchestration, Deployment and Execution.
- Standardization of simulations units.
- Model reduction and simplification methodologies including
 - Classical approaches
 - And AI methods.
- Visualization.

