



# FMI User Meeting -

Industrial Usage of FMI and **Companion Standards** SSP / DCP/ eFMI

Chair: Christian Bertsch



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### FMI - DCP - SSP - eFMI: a Coordinated Set of Standards

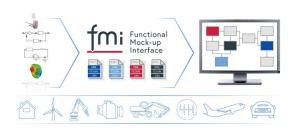


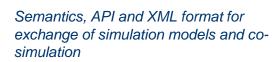


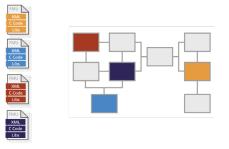




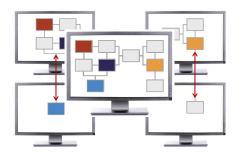




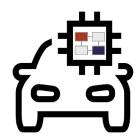




File format and XML schemas for description of architectures and sets of parameters



Semantics, protocol and XML schema for network based co-simulation



Container architecture for the step-wise refinement of a high-level algorithmic solution to an embedded implementation



## **Agenda**

Welcome, Overview on FMI / SSP / DCP / eFMI Standards (5 Min.)

### Industrial user talks

- Initial Steps in Deploying and Calibrating Power System Models on a Synchrophasor Data Cloud Platform using FMI (15 Min., Luigi Vanfretti, Giuseppe Laera, Marcelo de C. Fernandes, Chen Wang, Chetan Mishra and Kevin D. Jones)
- FMI-based simulation workflows based on open source and commercial tools (15 Min., Christian Bertsch, Fabian Jansen, Andreas Babucke and Torsten Sommer)
- Open Simulation Platform Towards a maritime ecosystem for efficient co-simulation (15 Min., Lars Tandle Kylinngstad)

FMI3 development (Status, roadmap, layered standards) (15 Min., Andreas Junghanns)

Demo of FMI3 support in tool prototypes (60 Min)

Short Break (10 Min.)

Status and outlook SSP Standard (5 Min, Jochen Köhler)

### Industrial user talks

- Use of SSP, FMI and OSI for Simulation-based Testing of an Automated Vehicle (15 Min., Jochen Koehler, Heinz Sachsenweger, Arun Das, Markus Deppe and Hans-Martin Heinkel)
- Model-based development of a traction control unit with SSP and FMI (15 Min., Nicolas Ochoa Lleras, Hasan Esen, Pierre Mai, Klaus Mai and Hiroshi Tashiro)
- SSP Traceability Demonstrator (15 Min., Dag Brück, Hans-Martin Heinkel, Peter Lobner and Pierre Mai)

Status and Outlook DCP Standard (15 Min., Martin Krammer)

Status and Outlook eFMI Standard (15 Min., Christoff Bürger)

General Q&A + End