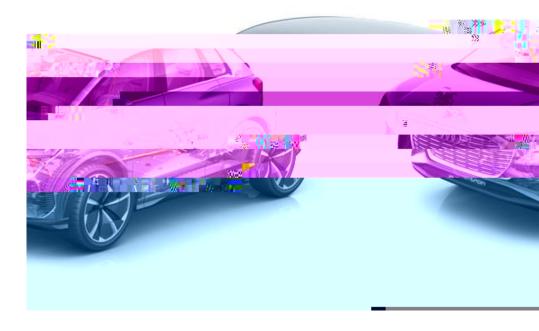
Developm ent of Chassis Software Components with Virtual Prototypes

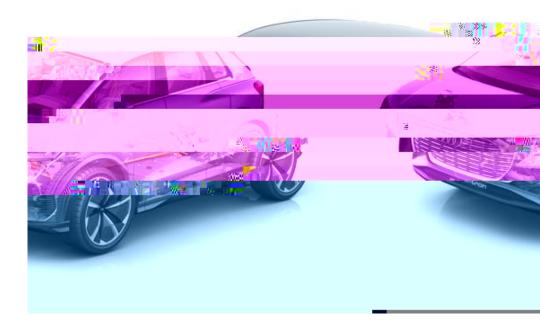
Development of Chassis Software Components with Virtual Prototypes

Agenda



Challenges in the New EV Project at AUDI

Vehicle Project



Challenges in the New EV Project at AUDI

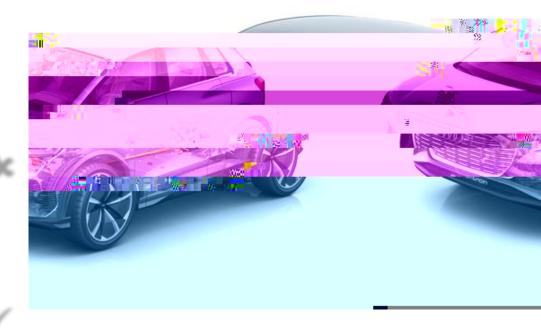
Vehicle Project

Challenges for Simulation Architecture

Challenges for Simulation Usability

Attempts to build an entire vECU failed

CarMaker Vehicle Model considered fit for further use

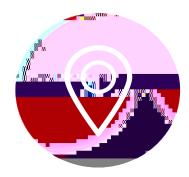


Demand for a new SiL Tool Chain

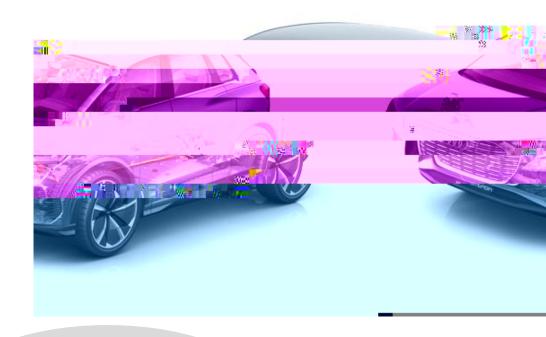
Goals for the New SiL Tool Chain

Flexible Simulation Environment

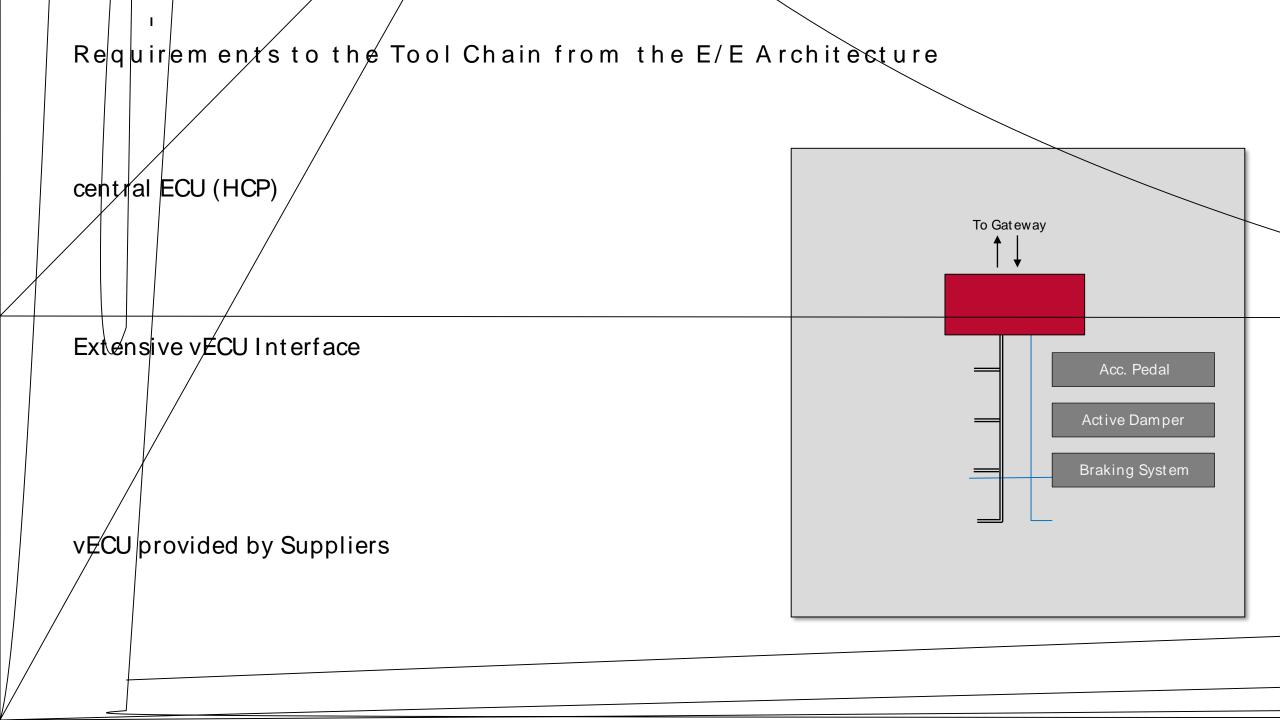
Standards for Modelling and Validation



Synchronization with Vehicle Milestones



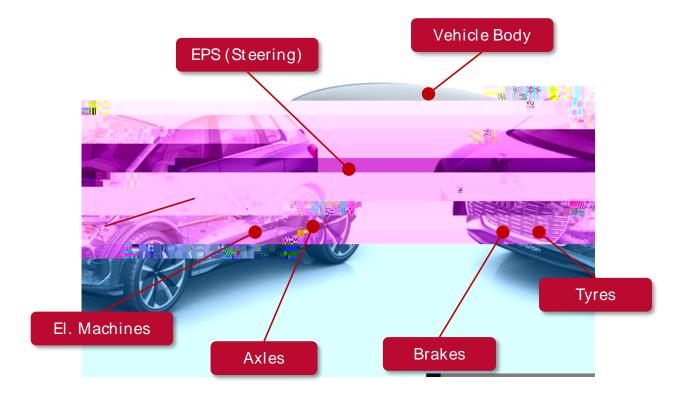
Synergies between Simulation Use Cases



Integration of the Vehicle Components with IPG CarMaker

ı

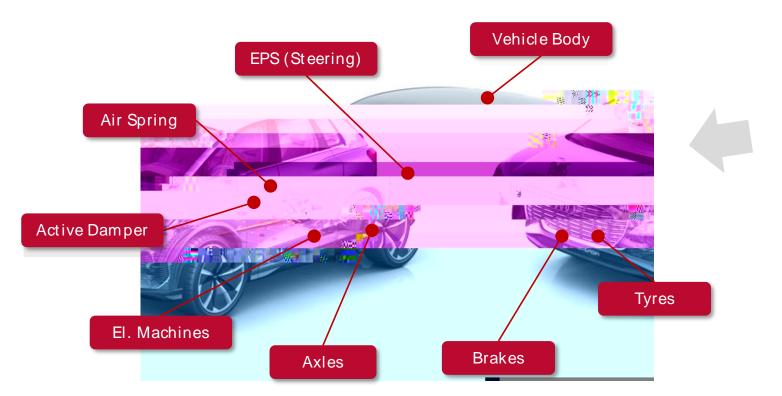
Usage of the Carmaker vehicle model with custom plugins

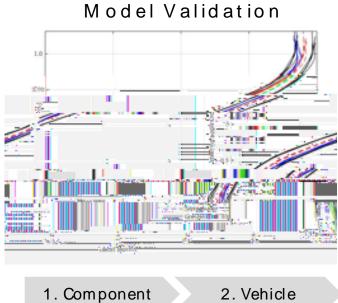


Integration of the Vehicle Components with IPG CarMaker

I

Usage of the Carmaker vehicle model with custom plugins



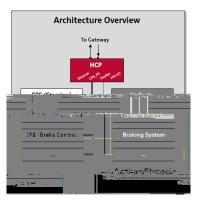


Overview of the Co-Sim ulation Tool Chain

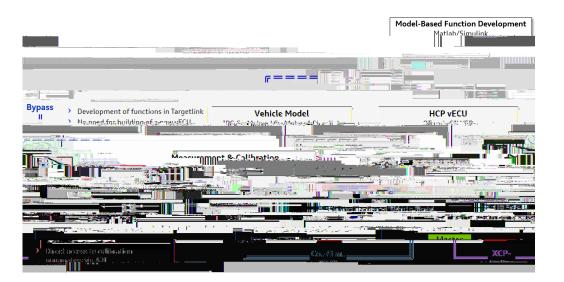
Overview of the Co-Sim ulation Tool Chain

1

Sum m ary

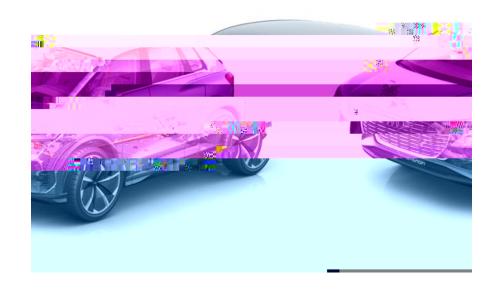






Sum m ary

L



Thank you for your attention!

Andreas Schmidt, AUDI AG

ı