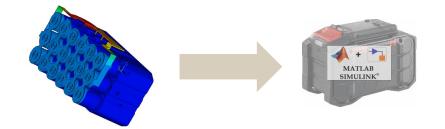
REDUCED ORDER BATTERY PACK MODELLING

Problem Description

- Reduced Order Models (ROM) are of extreme importance to:
 - Evaluate design concepts
 - Support control design (CMS)
 - Perform system simulations.
- Automatic generation of ROM eases the process for evaluating different pack concepts.



Objectives & Tasks

- FEM Battery pack model preparation in Ansys.
- Evaluate different system identification techniques to aid ROM generation.
- Model validation with experimental measurements.
- Model import to Matlab/Simulink
- Measurement test planning and execution.
- Software skills: Ansys Workbench (Mechanical), Matlab Simulink
- Technical Skills: System identification, Control systems

