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Development Methods in Battery Safety: Simulation and Testing

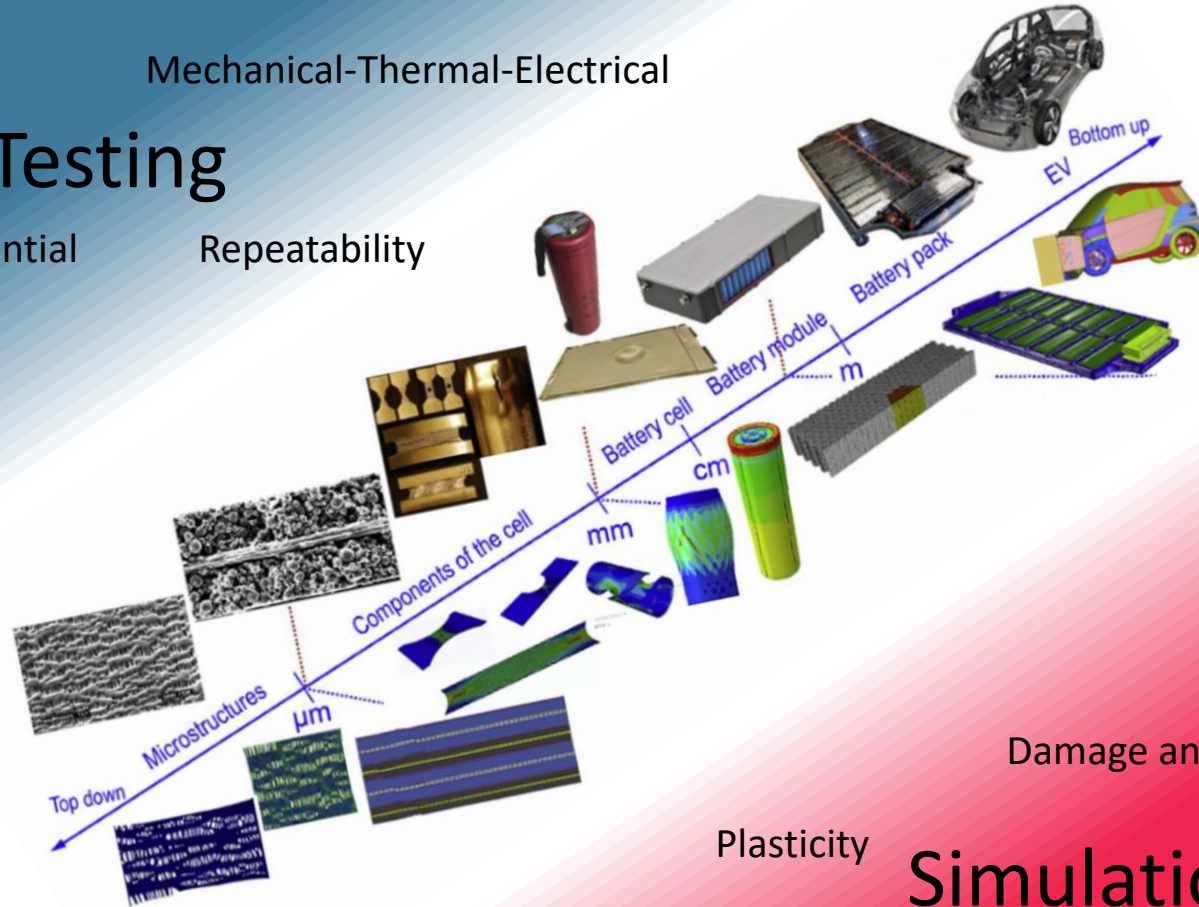
Dynamic

Mechanical-Thermal-Electrical

Testing

Hazard potential

Repeatability



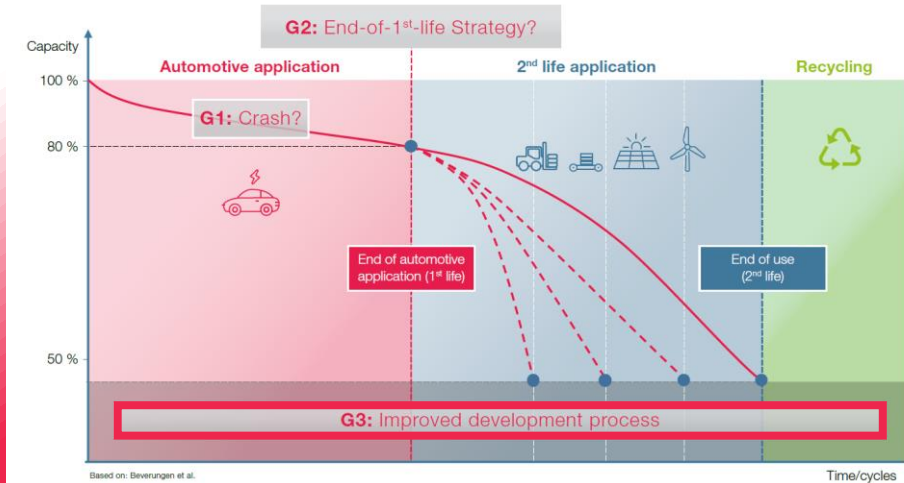
Damage and Failure

Plasticity

Simulation

Finite Element Modelling

Dynamic



Responsible Use
of Resources

New Battery
Technologies

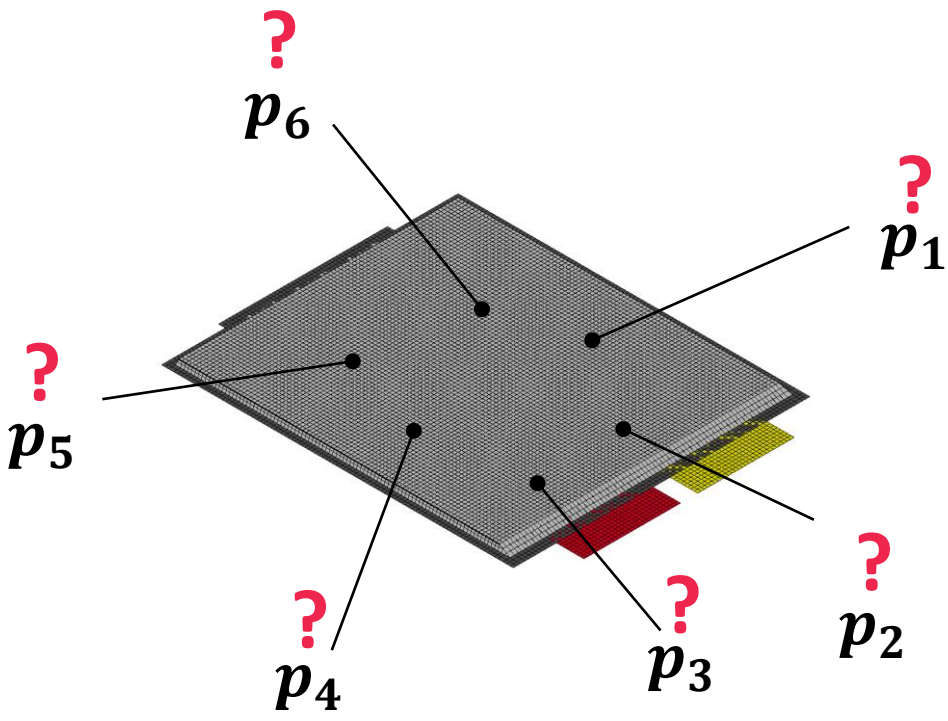
Time to Market

Big Data



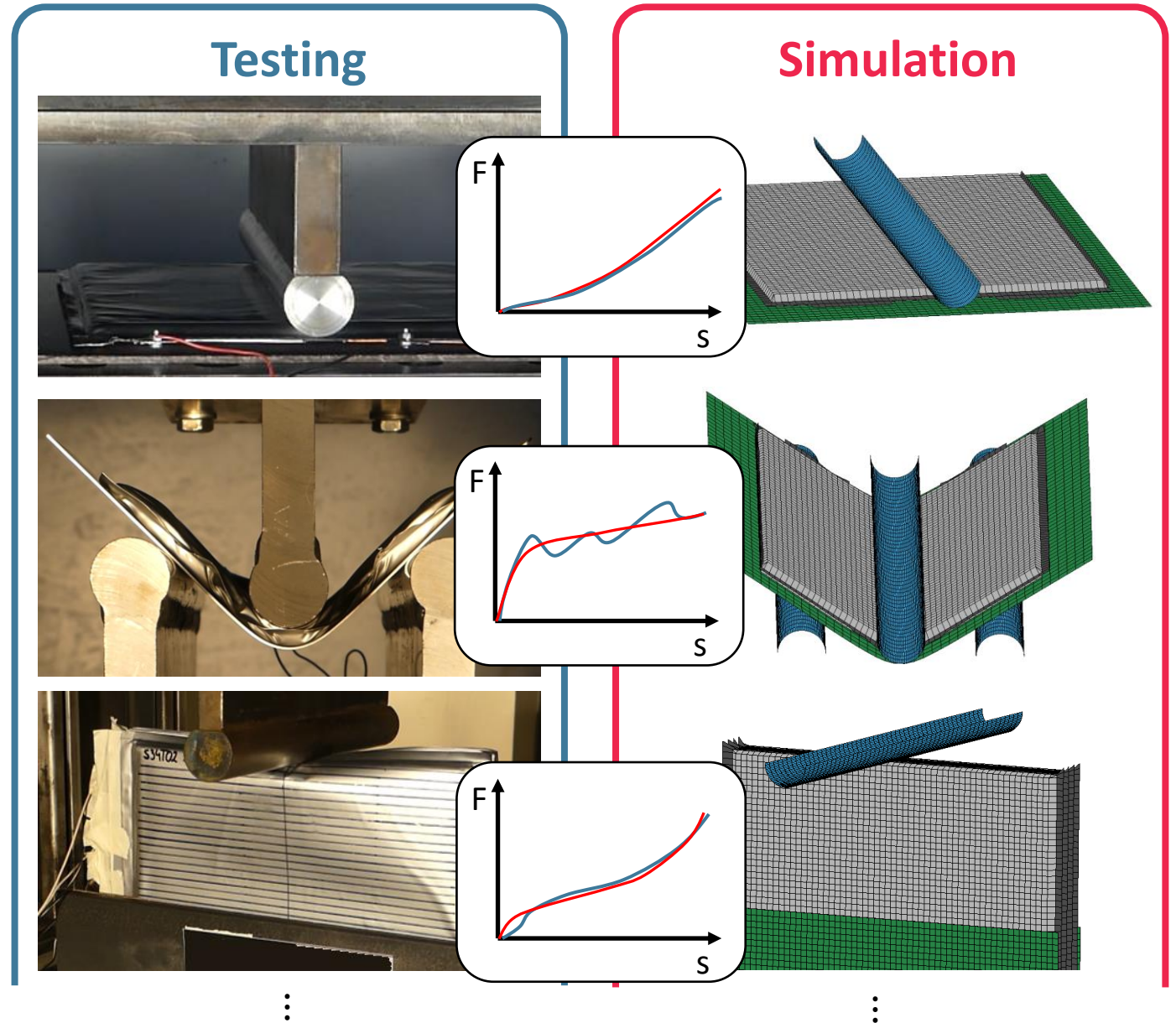
Increasing
Complexity of
Models

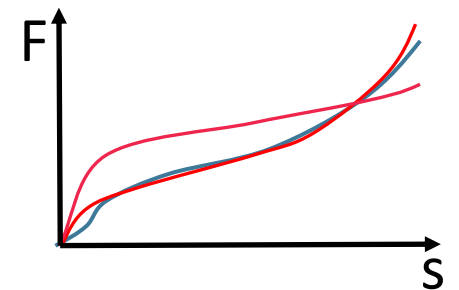
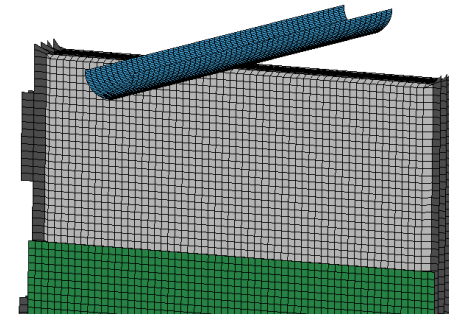
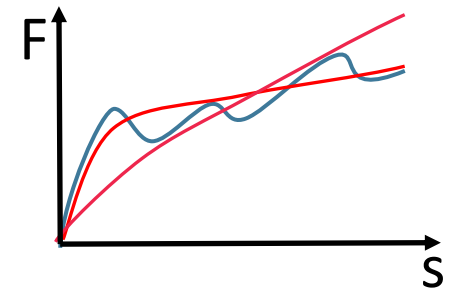
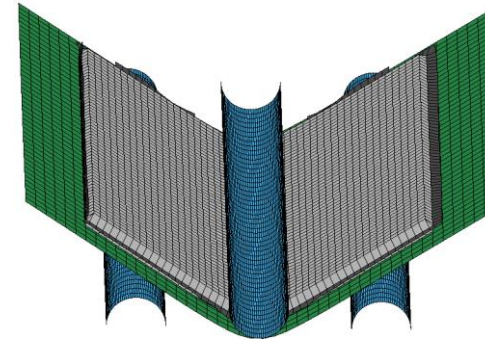
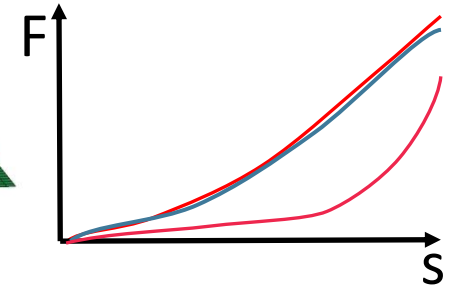
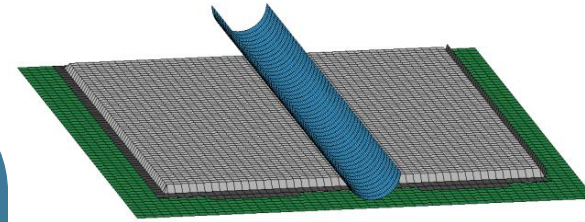
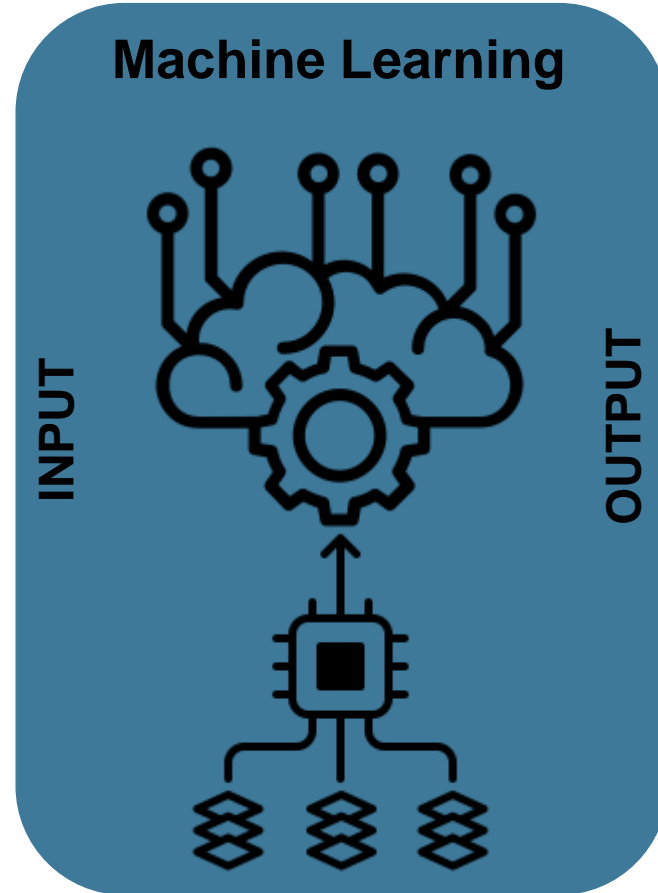
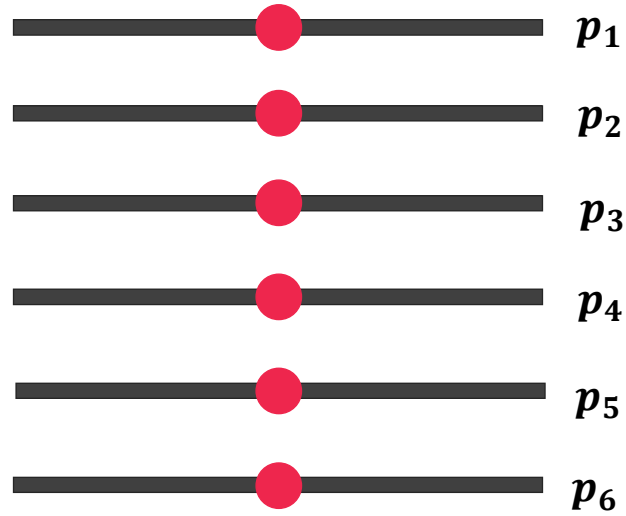
Multi-Physical
Modelling



Examples for Parameters p_i :

- Young's Moduli
- Yield Stresses
- Element Thicknesses






Partners



Das COMET-Projekt SafeLIB wird im Rahmen von COMET – Competence Centers for Excellent Technologies durch BMK, BMDW, das Land Oberösterreich, das Land Steiermark sowie die SFG gefördert. Das Programm COMET wird durch die FFG abgewickelt.

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