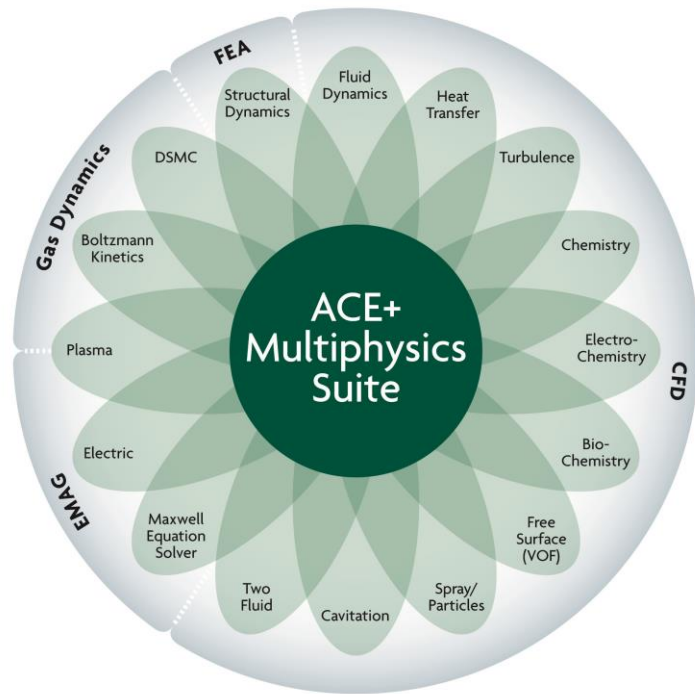
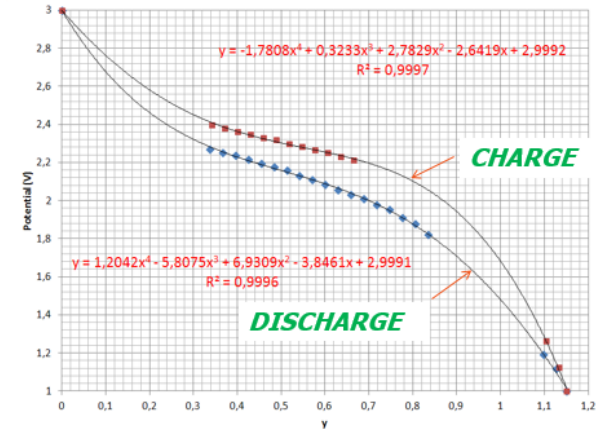
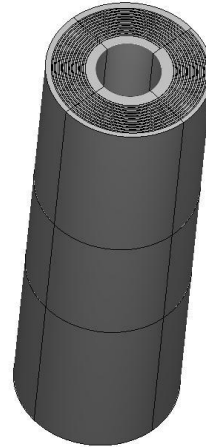




Li+ Battery Modelling R&D Collaboration Proposal

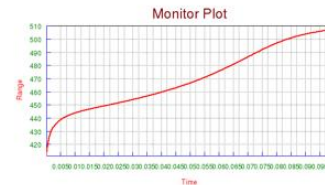
CFD & Multi-physics COE



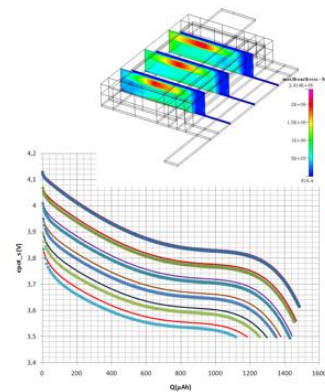
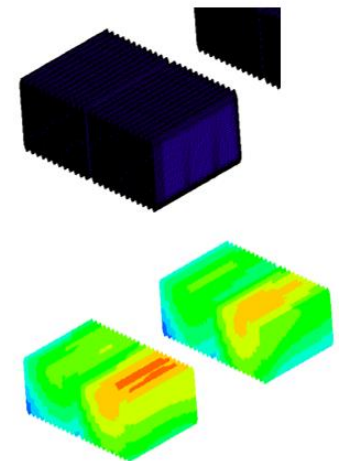


- Cell Level
 - Electrochemistry
 - Heat Dissipation
 - Thermal Stresses

Thermal Runaway



Heat Management



Virtual Performance Solutions



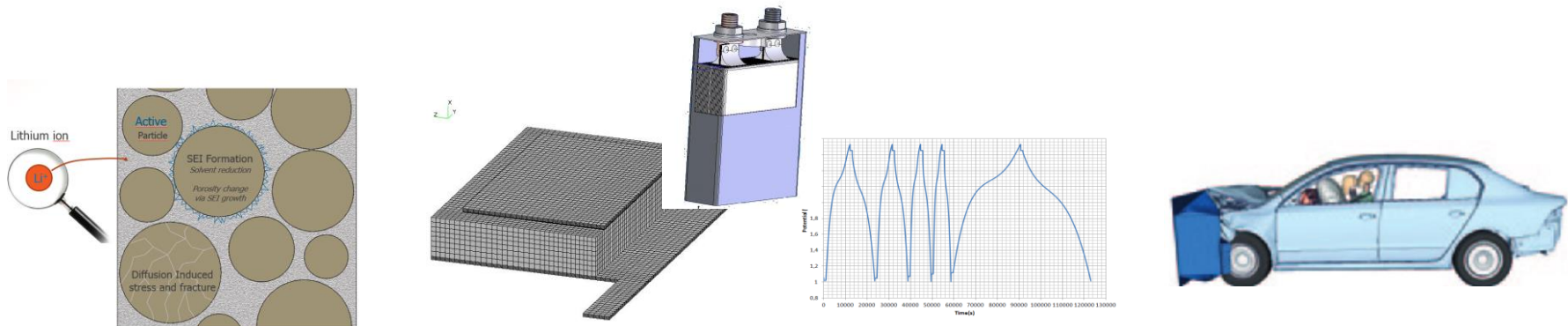
Proposed Research Targets

- Battery Performance / Materials

- Electrochemical databases
- Cycle life predictions
- Multi-scale modelling

- Safety & Integrity

- Material models in VPS
 - Structural
 - Electrochemical
- Long term electrochemical effects
- Thermal runaway



Fractions & SEI
Micro-Modelling

Cell Modelling

Cycle Life

Safety & Integrity

Multi-scale Modelling Platform



Thank You