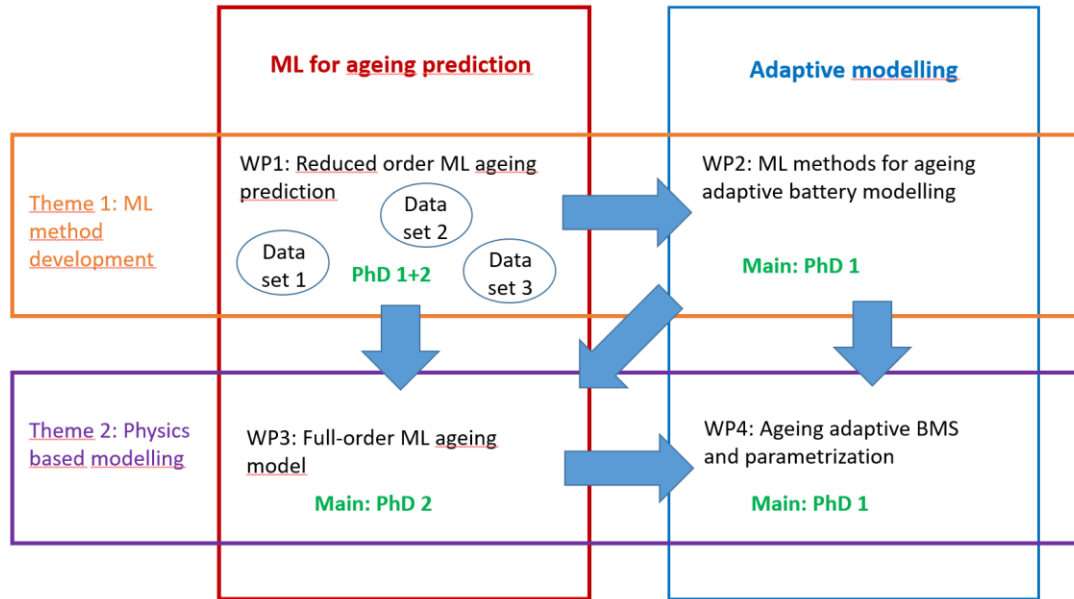


ML Assisted Ageing Prediction & Adaptive Modelling



The Goal of the Project:

- Methods to have calibrated physics-based electro-chemical models (ECM) throughout the batteries lifetime.
- Methods to determine appropriate safety margins in charge and discharge based on the adapted ECM.

Expected Result:

- Calibrated ECM (P2D) models for two cell chemistries using traditional and ML methods.
- Machine learning-based parameter identification method applied to charging data using a short optimized charge current excitation.
- Demonstrated health-aware fast charging based on adapted model.

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