



DEFACTO

Battery DEsign and manuFACTuring Optimization through
multiphysic modelling

DEFACTO's main objective is to develop a multiphysics and multiscale modelling tool to improve the understanding of cell material behaviour and cell manufacturing process and to reduce the time and economic resources for the market uptake of cell innovations. This approach will allow developing new high capacity and high voltage Li-ion cell generation 3b battery.

IMPACTS



The project will ensure maximum accuracy in cell modeling at reasonable computing costs

-30%

Development time and cost for battery cell



DEFACTO is expected to lower the number of experiments dedicated for cell design and cell manufacturing optimization.

-20%

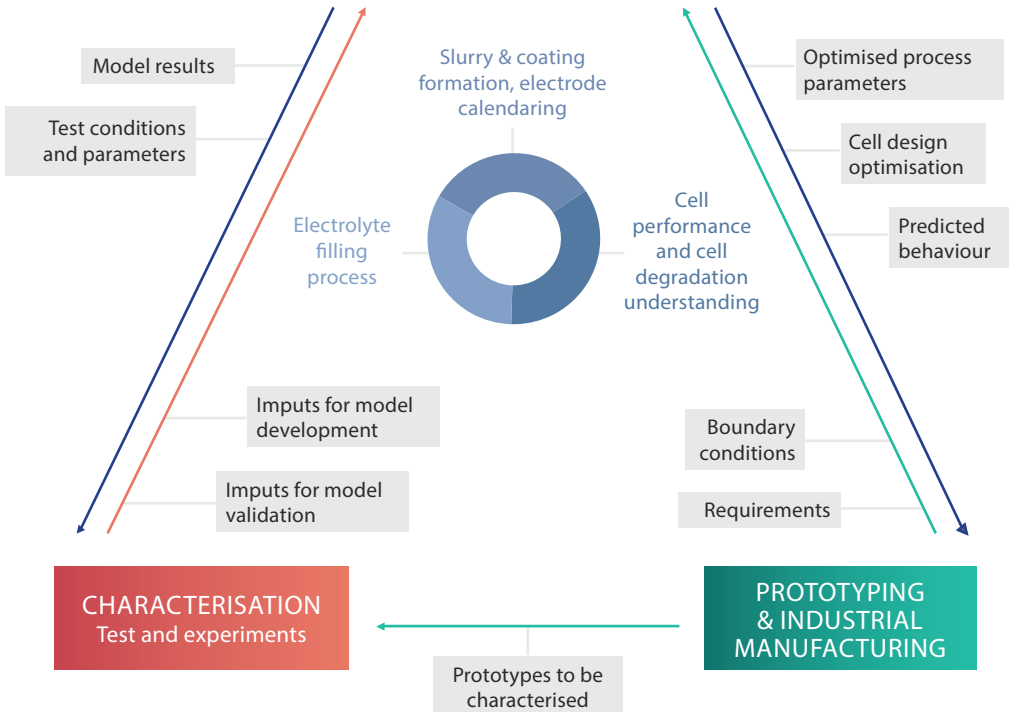
Battery R&I cost



The project will extend the battery lifetime and reduce the environmental impacts caused per battery produced.

METHODOLOGY

**MODELING, SENSITIVITY
ANALYSIS AND OPTIMISATION**
Multiscale and multiphysics



PARTNERS



Horizon 2020
European Union Funding
for Research & Innovation



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DEFACTO Project

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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 875247