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BATTERIES 2020

A Joint European Effort towards European Competitive Automotive Batteries

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Batteries

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BATTERIES 2020: A Joint European Effort towards European Competitive Automotive Batteries

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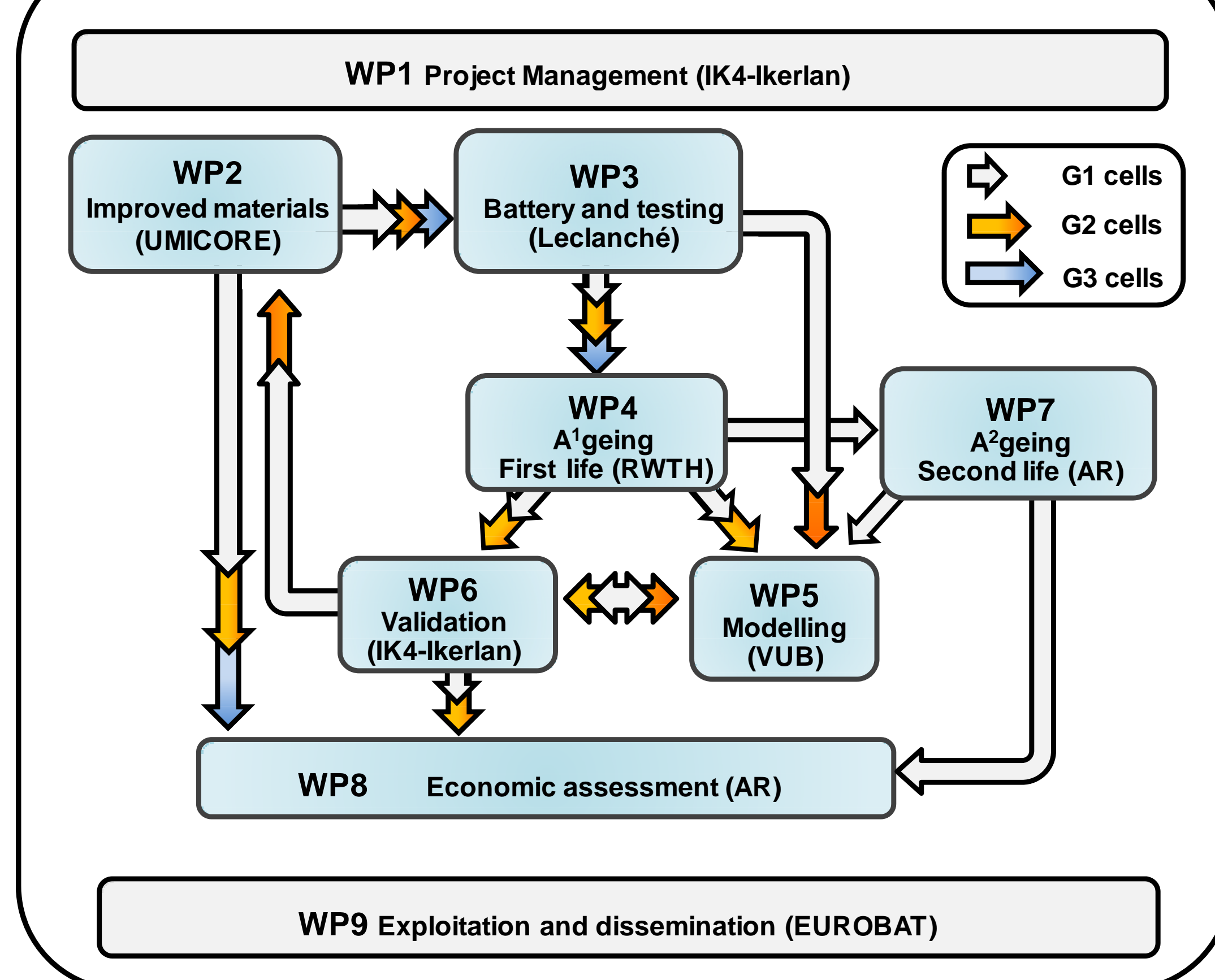
Main Objective

To improve performance, lifetime and total cost of ownership in batteries for Electric Vehicles.

Parallel Strategies:

- Focused on material development to enable high performance cells with improved durability.
- Understanding ageing phenomena and reliable lifetime prediction
- Routes to reduce battery cost.

Project Structure



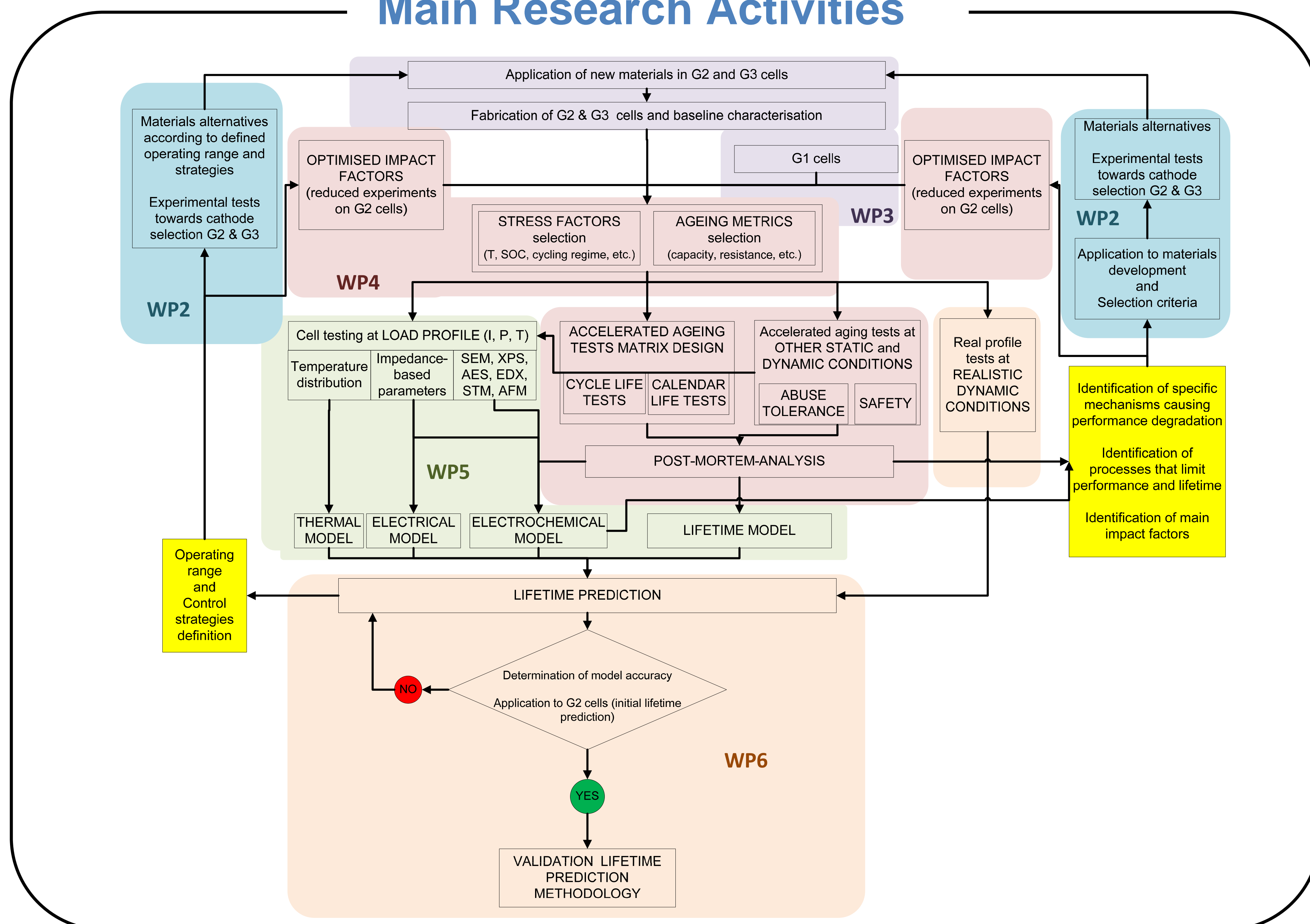
Specific project objectives

- Reducing cost/kg
 - Increasing kWh/kg
 - Increasing residual value
 - Optimising battery size
 - Optimising control strategies
 - Increasing lifetime
- Reducing cost/kWh

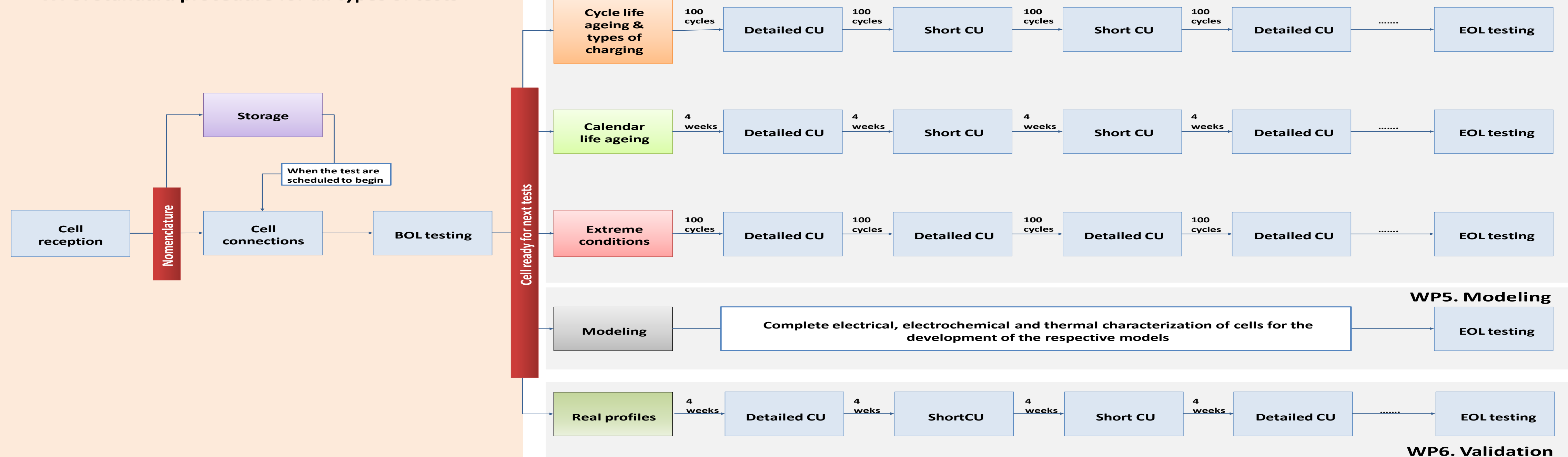
Ongoing Work

- WP2:** G2 materials being developed and tested
 - WP3:** Initial characterization of G1 cells based on testing protocols agreed upon partners. Statistical analysis BOL tests started. Initial development of G2 cells ongoing
 - WP4:** Tests defined and distributed and agreed among partners. G1 cells under 1st life ageing tests.
 - WP5:** Tests defined and distributed and agreed among partners. G1 cells under thermal, electrical and electrochemical characterization tests.
 - WP6:** Tests defined and distributed and agreed among partners. G1 cells under testing with real driving profiles.
 - WP7/WP8:** 2nd life applications and cost model assessment ongoing.
- ~ 300 cells and 180 testing channels allocated amongst testing partners!

Main Research Activities



WP3. Standard procedure for all types of tests



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