

# ELIBAMA

European Li-Ion Battery Advanced MAnufacturing

[www.elibama.eu](http://www.elibama.eu)



ICT4FEV/CAPIRE / EGCI  
Battery Workshop 2011

**DRIVE THE CHANGE**



# ELIBAMA

## European Li-Ion Battery Advanced Manufacturing

FP7 Program : Theme 4 – NMP - Nanosciences, Nanotechnologies, Materials and New Production Technologies

Work programme topics addressed : GC.NMP.2011.-1. Advanced eco-design and manufacturing processes for batteries and electrical components

Call identifier : FP7-2011-GC-ELECTROCHEMICAL-STORAGE

Deadline : 02-12-2010

Grant Agreement n° 25385 , Duration : 36 months , Starting date : 01/11/2011

Total Budget : 15 410 617 € , EC funding : 8 999 615 €

# ELIBAMA general objectives

- ✓ enhance and accelerate the creation of a strong European automotive battery industry structured around industrial companies already committed to mass production of Li-ion cells and batteries for EVs.
- ✓ focus on eco-friendly and cost effective processes for electrode coating, electrolyte manufacturing, fast and homogenous electrolyte filling processes, cell joining, stacking and assembly.
- ✓ improve process control and downstream quality, and develop a non destructive testing to reduce the rate of defective products at the end of the manufacturing chain.
- ✓ develop a methodology for recycling and refurbishing of end-of-life Li-ion batteries
- ✓ conduct life cycle analysis and propose advanced eco-design methods for battery cell manufacturing and recycling

# 17 partners : FR (9) , DE (4) , BE (2) , UK (1) , IT (1)



PRAYON  
RHODIA  
SOLVAY  
UMICORE

ENTEGRIS  
IN-CORE  
INGECAL  
KROENERT

RENAULT  
DAIMLER  
SAFT

EDI-VEOLIA  
SNAM  
UMICORE



Research & Technology Organizations / Universities : CEA, FRAUNHOFER, UNEW

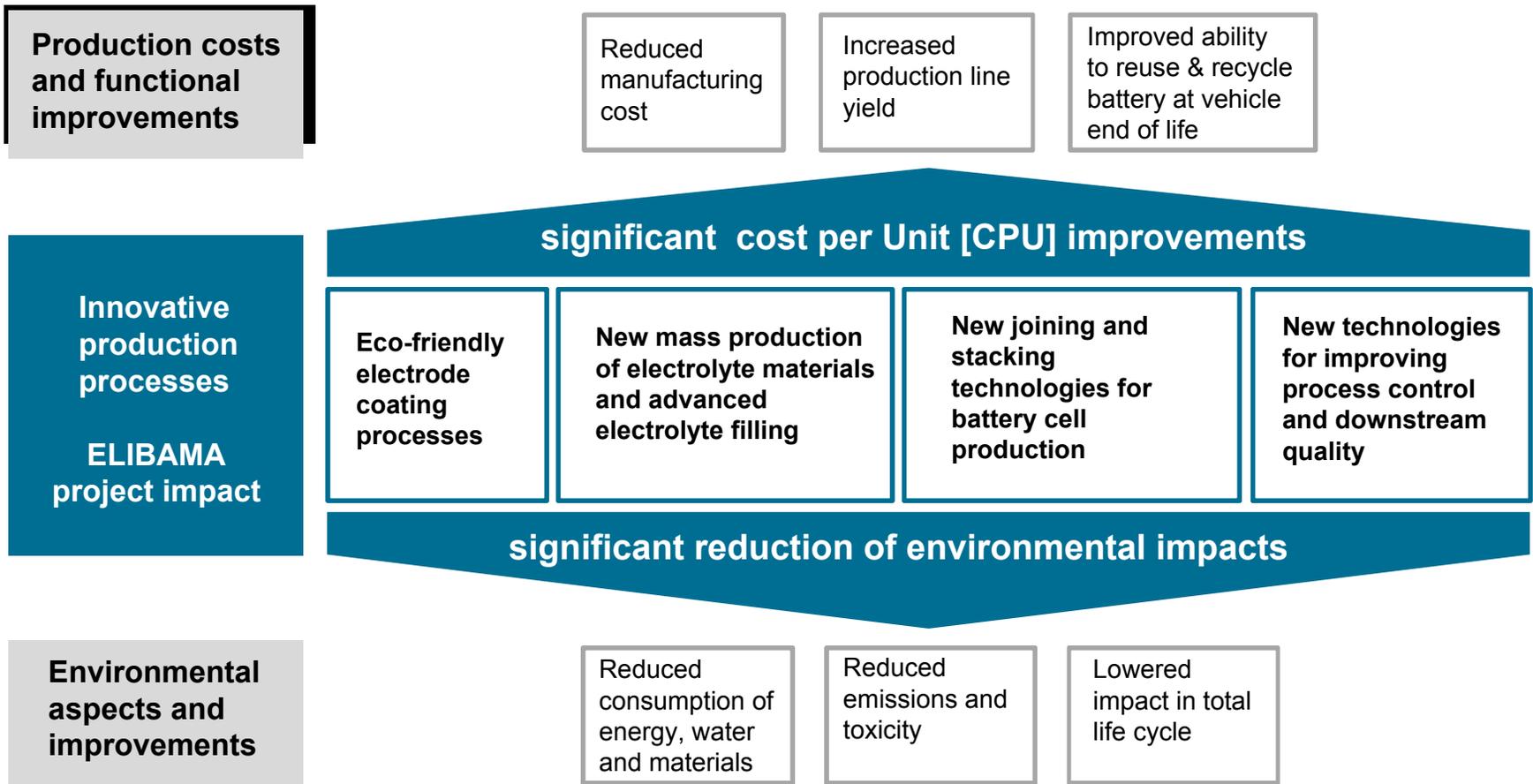


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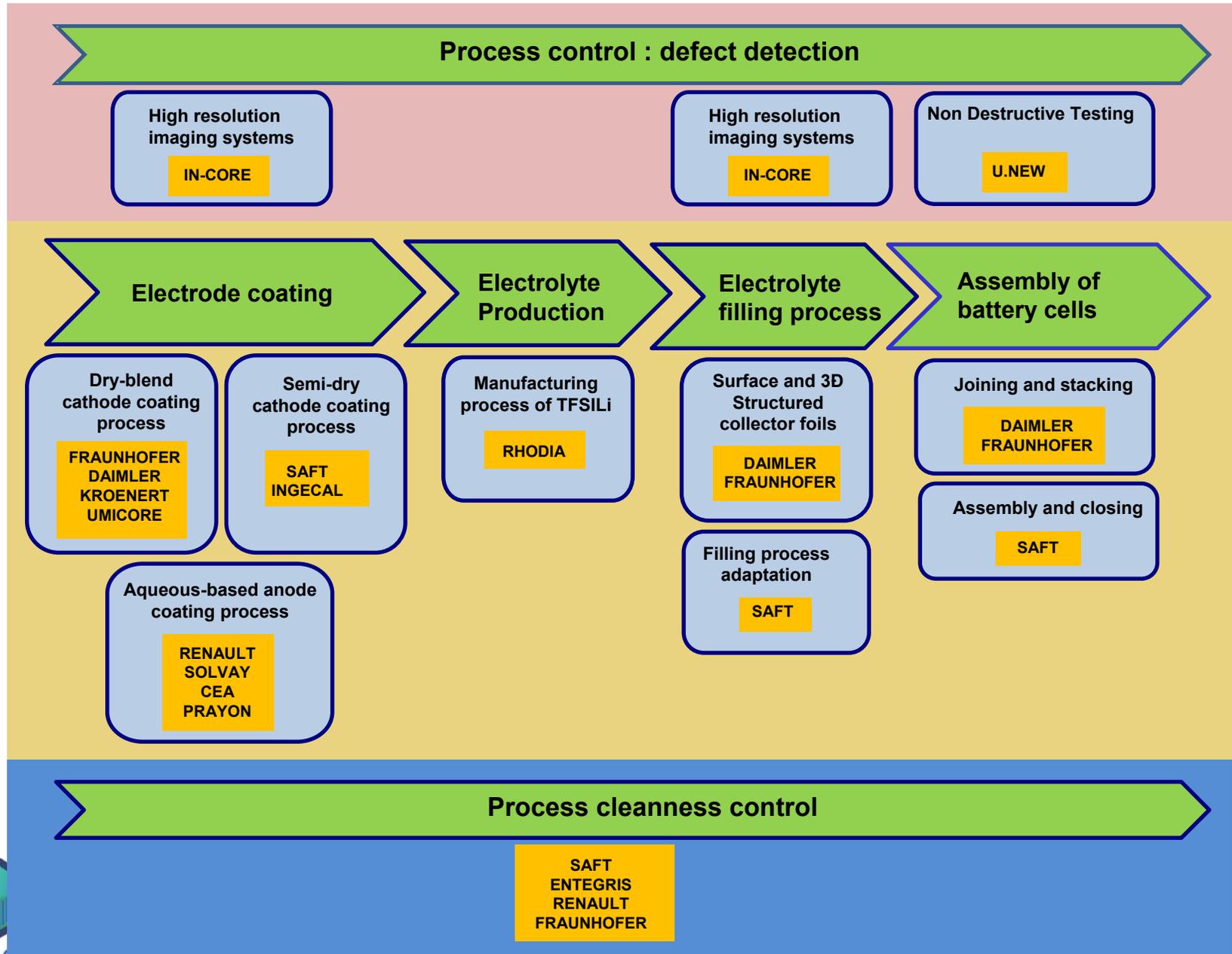
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# Objectives and performance indicators



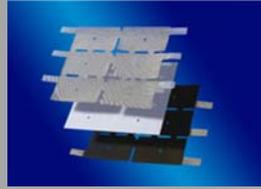
# Li-ion Battery Manufacturing Process Steps



# RTD Work Packages

Production of battery electrodes and cells

Reuse/Recycling



WP1

Electrode  
Manufacturing  
Process Devt.

WP2

Battery Cell  
Manufacturing  
Process Dev.

WP3

Battery Cell  
Manufacturing  
Process Control

WP4

Battery Cell  
Production  
Demonstration

WP6

Re-  
furbishing  
and Re-  
circulation

WP5

Eco-design and Life Cycle Assessment



# Work Package Management

