

D1.1 Detailed project objectives and measurement criteria

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1 Publishable Executive Summary

The aim of INCOBAT¹ is to provide innovative and cost efficient battery management systems for next generation HV-batteries. To that end, INCOBAT will propose a platform concept in order to achieve cost reduction, reduced complexity, increased reliability as well as flexibility and higher energy efficiency.

Target of this deliverable is to provide the preliminary list of high-level metrics (such as cost reduction, performance expectations) as well as evaluation criteria to serve as reference for project monitoring. This deliverable is then the roadmap to execute evaluation (D5.1 / D5.2) and will be integrated into the yearly report for project monitoring.

The main project objectives are

- Improve battery range by 30%
- Decrease costs of management unit (hardware) by one order of magnitude
- Modular concepts (system architecture, safety, security and V&V) enabling efficient integration in vehicle available.

These objectives are further refined in technical items (e.g., use of model-based systems engineering, introduction of multicore platform and smart sensors, methods for Reliability and robustness validation) with corresponding baseline and evaluation criteria. This refinement is required on one side to obtain a better understanding of the technical means to reach the project main objectives, and on the other side to perform evaluation on tangible technical outcomes.

In this document, a list of 12 technical items has been identified. Each of these technical item is mapped to at least one of the main project objective, and is described with evaluation criteria and baseline.

¹ INnovative COst efficient management system for next generation high voltage BATteries, www.incobat-project.eu