



# GIGAGREEN



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# About:

- **GIGAGREEN** proposes a structured research plan to develop and scale up novel electrode and cell component manufacturing processes that follow a Design for Manufacturing approach in line with Europe's strategic goal of becoming a global leader in the Li-ion battery value.
- This means that **GIGAGREEN** seeks the minimum environmental impact and energy consumption, cell designs which facilitate the re-use and disassembly, increase of the cost-efficiency and safety of processes and products, and high-throughput technologies able to be easily scaled up and automated in the context of industry 4.0/5.0 giga-factories.



# Design for Manufacturing Gigafactory concept

## SAFER

- Elimination of organic solvents



## GREENER

- Reduced energy and material consumption
- Energy consumption of cell manufacturing reduced by 25%



## BETTER

- High performance cells in terms of voltage, capacity, life cycle
- Data-driven process and product quality control



## CHEAPER

- Reduced energy and material consumption, economy of scale
- Cell manufacturing cost reduced by 20%



## FLEXIBLE

- Digitalization processes allowing to quicker specification change
- Affordable scalable process



# IMPACTS

**10%** Increase Productivity

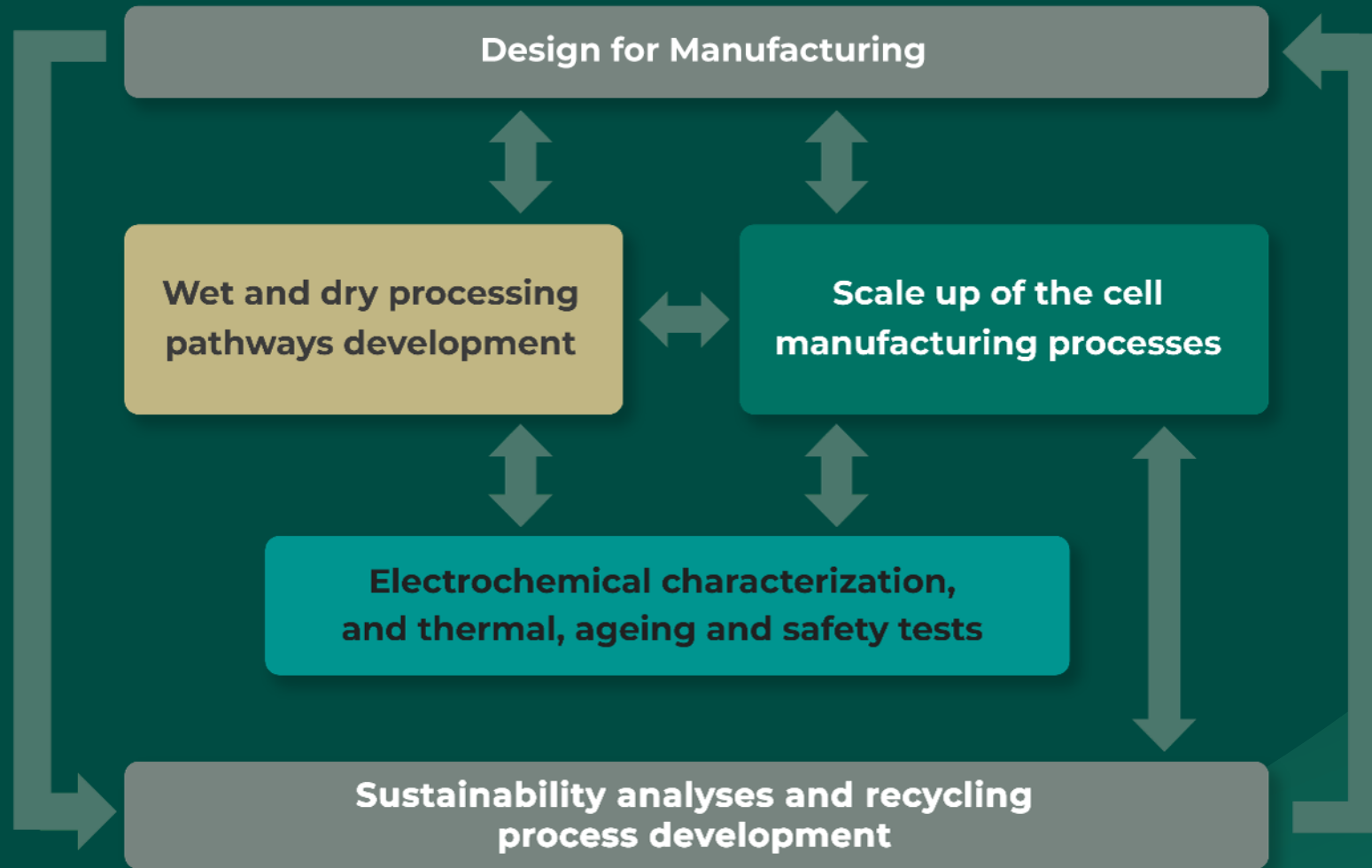
**25%** Reduction of Energy Consumption & Carbon Footprint

**20%** Reduction of Costs

**0%** Volatile Organic Compounds Generated



# IMPLEMENTATION



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**THANK YOU**  
**AND SEE YOU SOON**

