



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 to Manufacture approach in line with Europe's strategic goal of becoming a global leader in the Li-ion battery value.

- This means that **GIGAGREEN** seeks for the minimum environmental impact and energy consumption, cell designs which facilitate the re-use and disassembly, increasement 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 to Manufacture 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

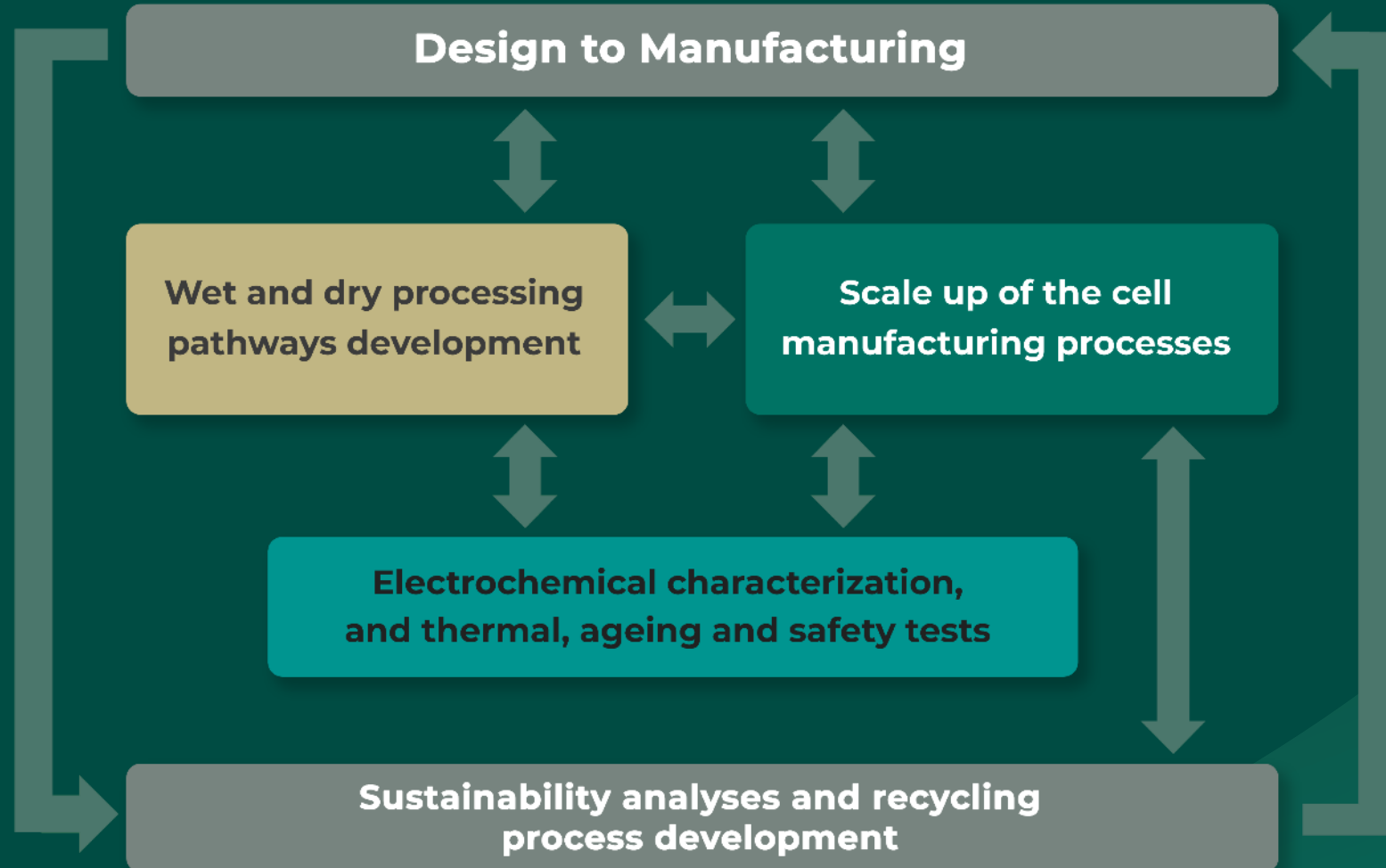
25% Reduction of Energy Consumption & Carbon Footprint

20% Reduction of Costs

0% Volatile Organic Compounds Generated



IMPLEMENTATION



CIC
energi
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MEMBER OF
BASQUE RESEARCH
& TECHNOLOGY ALLIANCE



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THANK YOU
AND SEE YOU SOON

