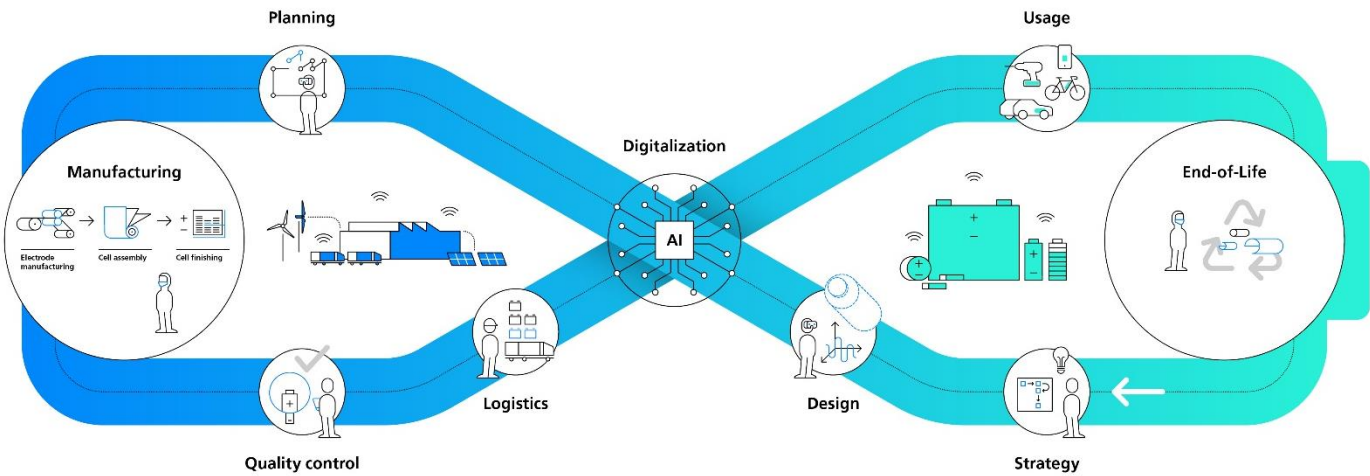


Battery Manufacture

Drive batteries account for a large proportion of added value in the manufacture of electric cars. The battery cell is a key technology and thus of central importance. Manufacturing battery cells in Europe and Germany in the future is both a political aim and an economic necessity. This can only be attained by planning and constructing climate-friendly gigafactories for producing high-quality battery cells. Digitizing the value chain end-to-end will not only provide decisive competitive advantages but also be a unique selling point. At the Center for Digitalized Battery Cell Manufacturing, methods and tools for this are being developed and extensively tried and tested on a laboratory line.

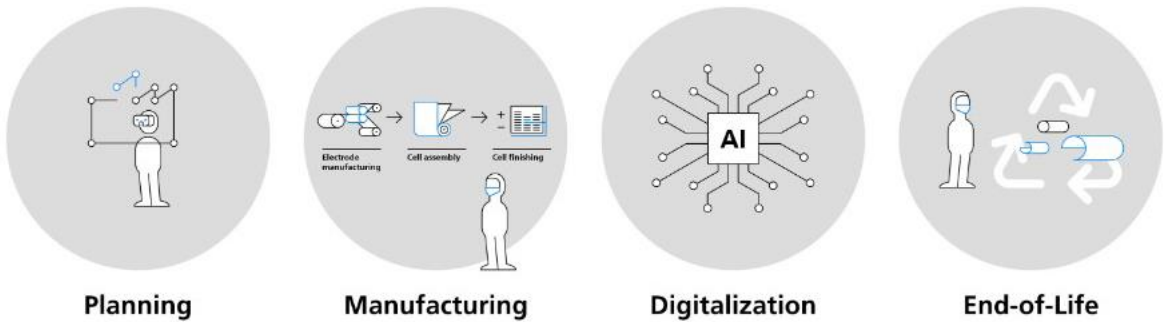
Battery manufacturing at Fraunhofer IPA



Digitizing the entire value chain in battery cell production is one of the tasks of the Center for Digitalized Battery Cell Manufacturing (ZDB). Research services support the certification and scaling of existing (lithium ion) and future battery cell concepts and manufacturing processes. The focus is always on stabilizing and improving product quality while considering strict economic and ecological constraints. To achieve this, ZDB optimizes individual production processes and complete interlinked production lines as well as higher-level process and building infrastructures. In the future, the Center for Digitalized Battery Cell Manufacturing at Fraunhofer IPA will contain an entire, fully digitized production chain for lithium-ion battery cells.

Services and expertise

Our services range from consulting through to research and development projects in the following fields



Fraunhofer is one of the world's largest applied R&D organizations, with nearly 76 research units in all sectors of industry, 32000 employees and an annual outlay of Euros 3.4 billion. Of this sum, 3.0 billion euros is generated through contract research. Our global footprint is very strong, with offices and research centers in the Europe, USA and Asia. Some of our renowned innovations are the MP3 format, the white LED, the smallest of cameras. Fraunhofer covers the entire spectrum of energy (Renewables, Storage, E-Mobility, Grid, Hydrogen...) across the value chain from materials to testing and certification. Fraunhofer has been active in India since the past several years, bringing innovative technologies and research competence to India. Fraunhofer in India is the chosen R&D and innovation technology partner of some of the major players in the field of Energy, Environment, Automotive, Electro-mobility, Materials, Production Technology and Smart Cities working with Industry, Government and Public Sector.

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Kindly get in touch with us if you are interested in this technology or require further information.
Thanks and Regards,

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