



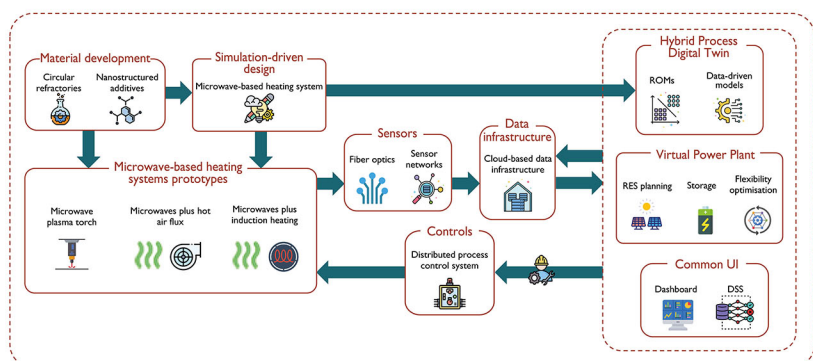
METAWAVE

METAWAVE aims to introduce advanced **microwave-based heating systems** in high-temperature heating processes.

The project focuses on:

- improving energy efficiency,
- reducing energy consumption,
- lowering greenhouse gas emissions,
- increasing productivity.

METAWAVE also proposes the integration of **renewable energy sources** to power the microwave-based heating systems through a **Virtual Power Plant**, as well as the **development of hybrid digital twins** of the industrial heating processes accompanied by an **energy management system** for process **optimization**.



The 3 Industrial Use Cases of METAWAVE project



Carbon anodes
for aluminum production



Ceramic tiles
firing



Asphalt production
and recycling



PROJECT WEBSITE