



MULTHEM

Multi Material Additive Manufacturing for
Lightweight and Thermal Management

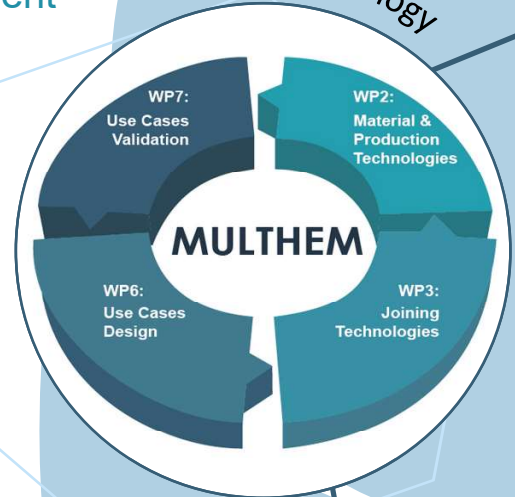


www.multhem.eu

Carbon Fibre Composites (CFC) have been increasingly replacing metals in products requiring lightweight features. However, due to the traditional manufacturing process and poor thermal conductivity, the use of CFC has been limited to structural applications. For example, the casings for batteries, electrical motors, and power electronics are typically manufactured entirely in aluminium because they are required to dissipate heat efficiently. Using pure aluminium is a heavier and less cost-effective solution than using pure CFC.

Our vision of MULTHEM is to use the different benefits from metals and CFC materials to develop and validate new reliable additively manufactured processes and new metal-polymer multi-materials with structural and cooling features with a more cost-effective approach as compared to traditional methods.

Our Methodology



Our Consortium Partners



Where we are based



Co-ordinator:

cetemet

TECHNOLOGY CENTRE OF
METAL-MECHANICAL AND TRANSPORT

Partners:



Fraunhofer
IPK

LUXEMBOURG
INSTITUTE OF SCIENCE
AND TECHNOLOGY

LIST



TNO innovation
for life



Brightlands
Materials Center

Airelectric
Aircraft Electrical & Manufacturing



ÉIRECOMPOSITES



Prima
Additive

THALES
Building a future we can all trust



Brunel
University
London



This project has received funding from the European Union's
Horizon Europe Research and Innovation programme 2021 - 2027
under grant agreement number: 101091495