



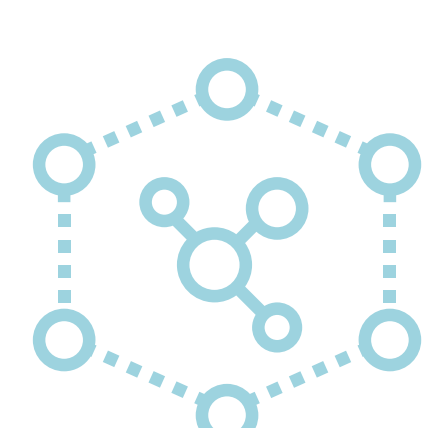
MULTI-FUN

ENABLING MULTI-FUNCTIONAL PERFORMANCE THROUGH MULTI-MATERIAL ADDITIVE MANUFACTURING

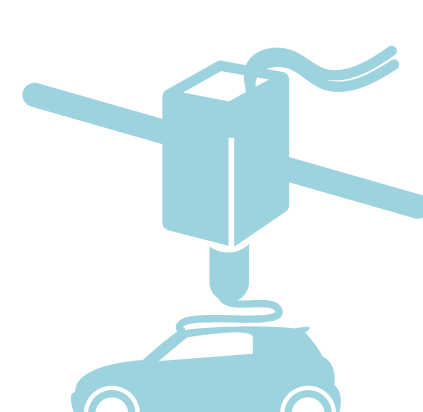


SCAN ME for more information regarding the project

OBJECTIVES



DEVELOPMENT OF MORE THAN 5 NEW MATERIALS CUSTOMIZED FOR ADDITIVE MANUFACTURING (AM). 3 OF THEM USING NANOTECHNOLOGY

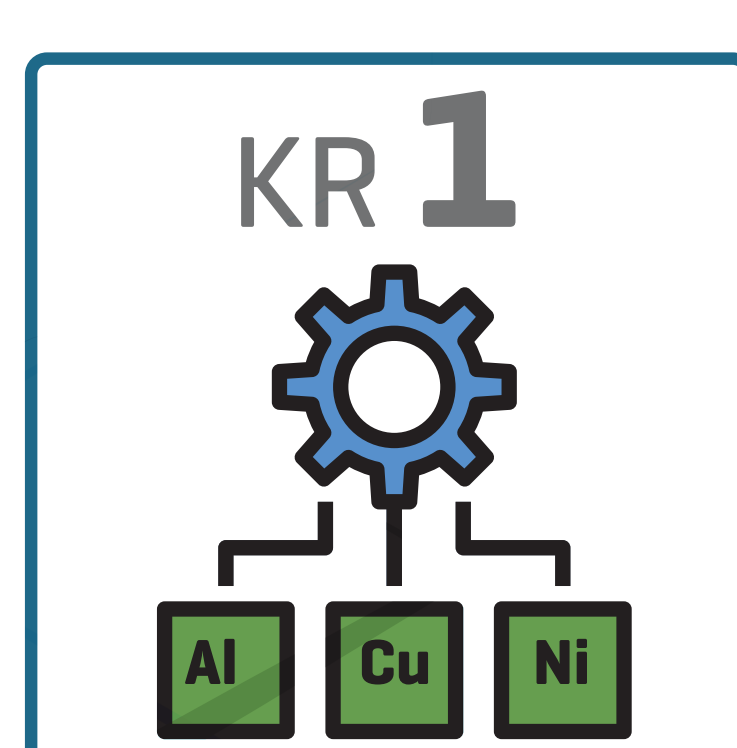


DEVELOPMENT OF AM EQUIPMENT AND AM SOFTWARE BEING ABLE TO REALIZE 10 DIFFERENT MULTI-MATERIAL DESIGNS BY 5 NEW TECHNOLOGIES



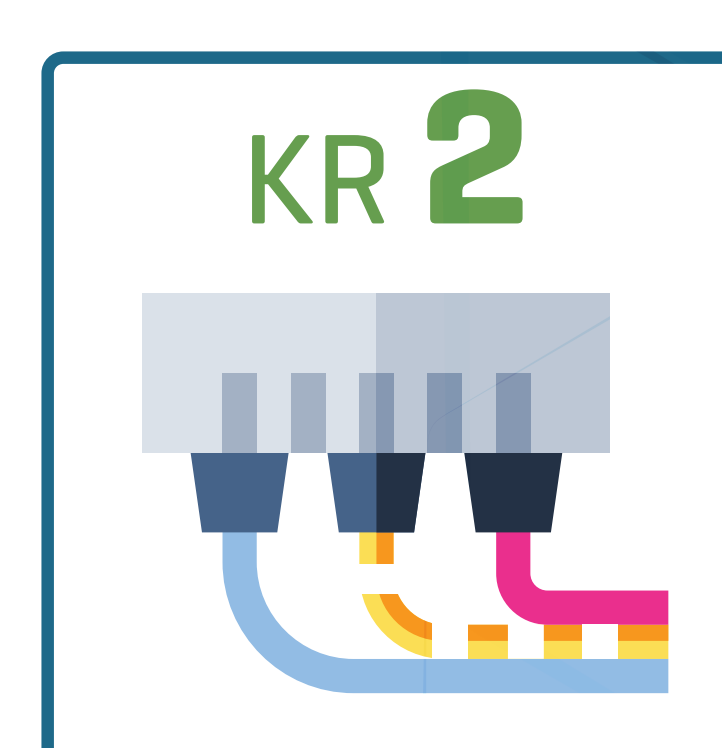
SUPERVISING THE SIGNIFICANT REDUCTION OF ENVIRONMENTAL IMPACT AND COSTS BY LCA

KEY-RESULTS



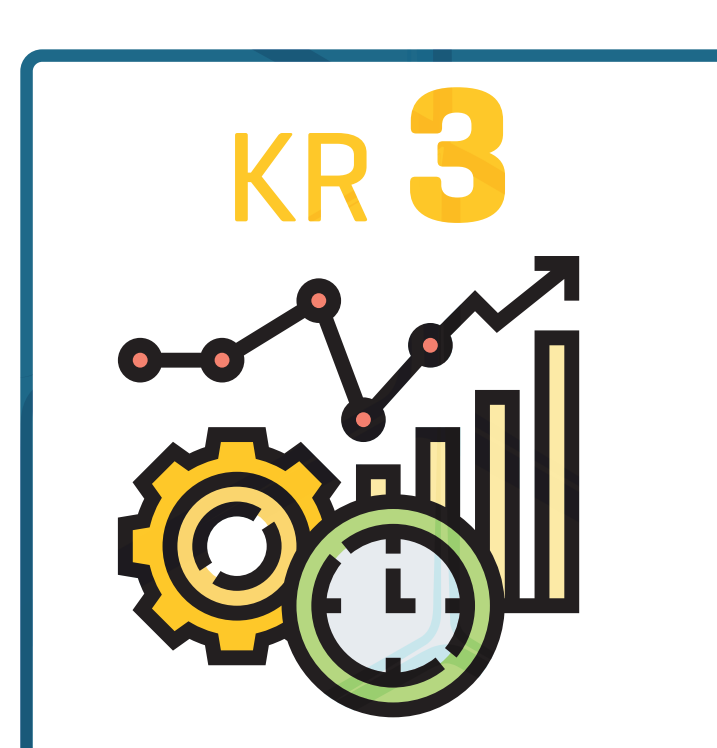
ADVANCED METALLIC MATERIALS

Advanced structural metals & corresponding active material solutions for innovative multiple functionalities



NOVEL AM EQUIPMENT

Hard- & software for multi-material processing & in-situ alloying, toolpath planning & process control for several AM technologies working in parallel



MULTI-MATERIAL DESIGN-KNOWLEDGE

New knowledge on increased efficiency of parts & moulds due to integrated, multi-material based functions



STANDARDISATION KNOWLEDGE

Enhanced knowledge to contribute to standards and support regulatory bodies adapting to multi-material AM

DEMONSTRATORS

KR1 (≥ 5 MATERIALS) and KR2 (≥ 5 TECHNOLOGIES) will be applied in

10 different combinations in 7 demonstrators, belonging to 3 use cases

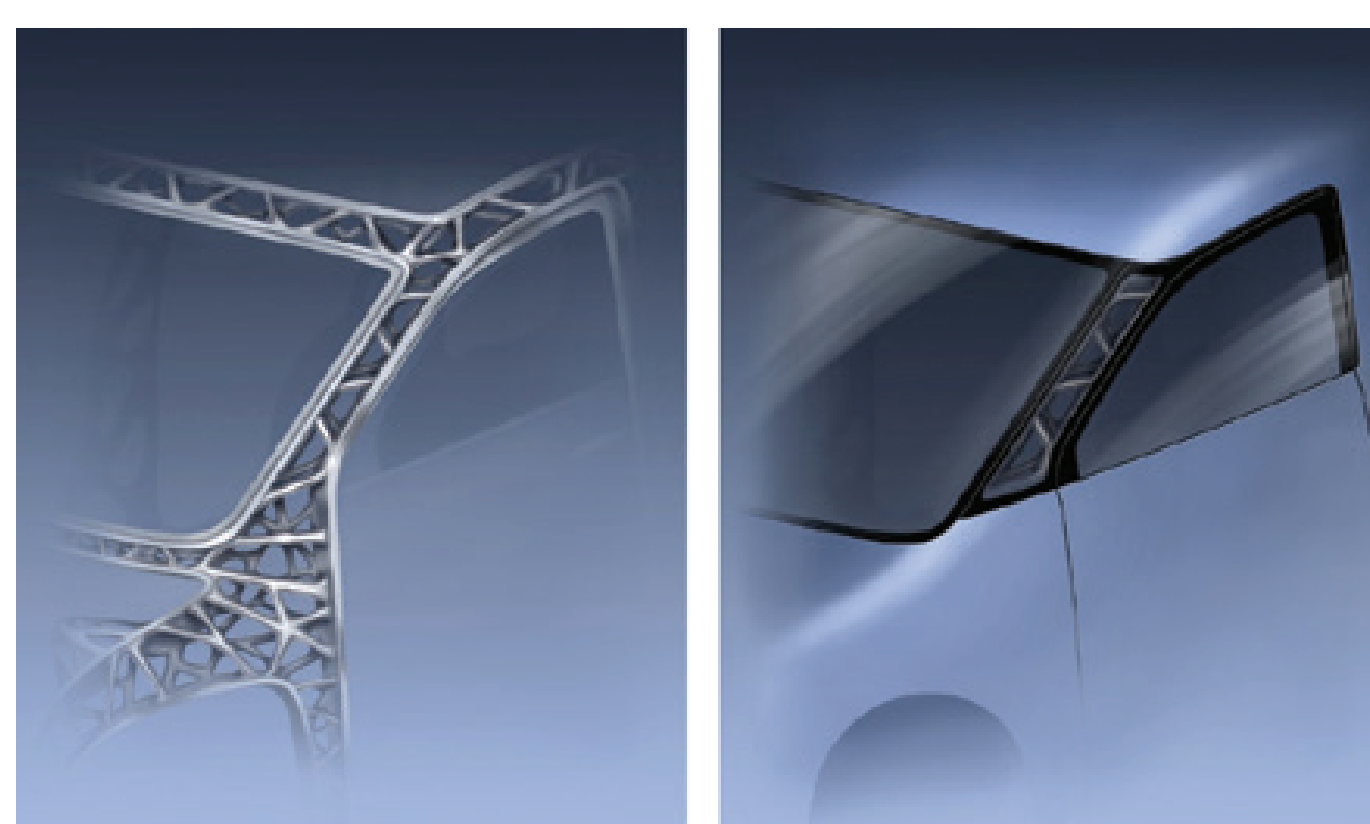
(structural parts, moulds, test equipment),

addressing 4 different markets

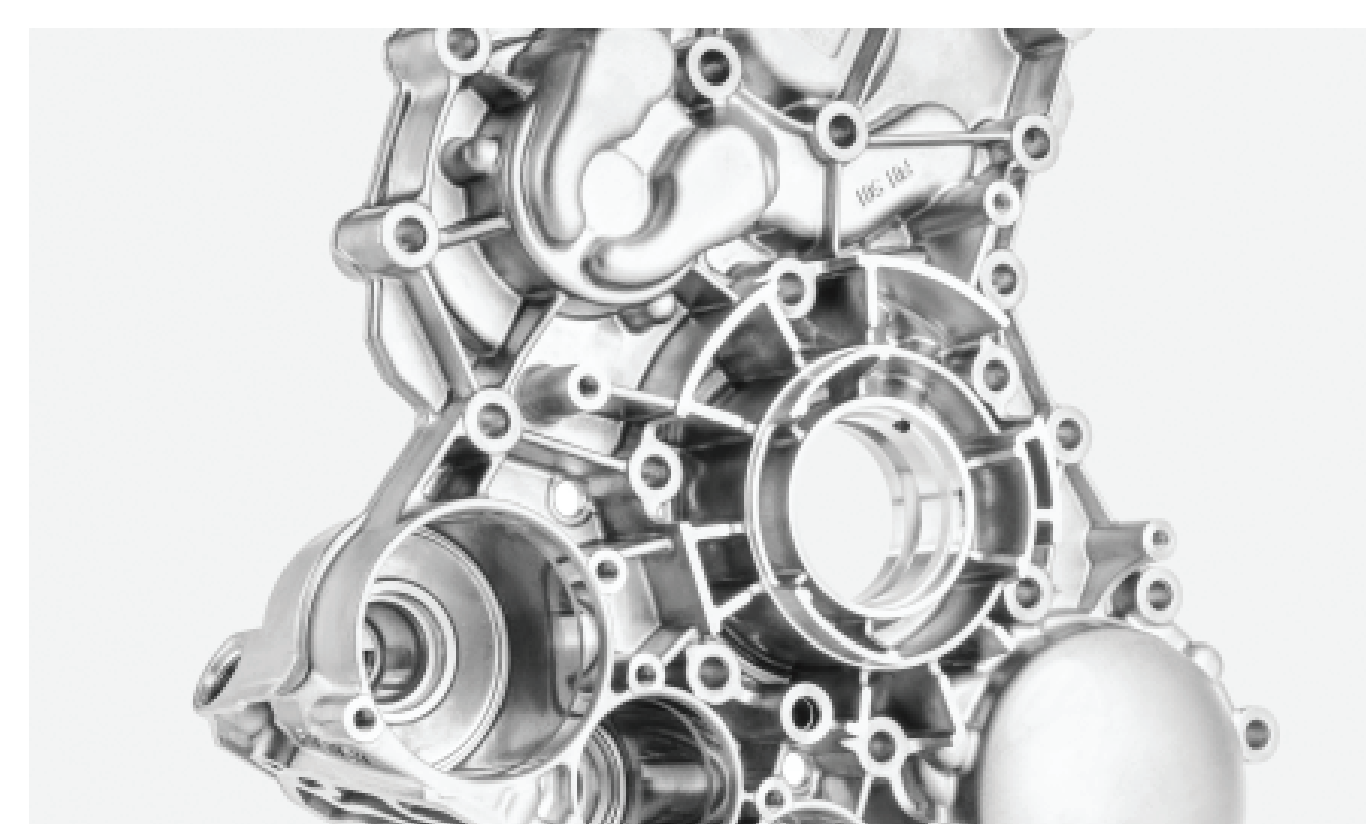
(automotive, aviation, space and production industry)



Actuator Housing



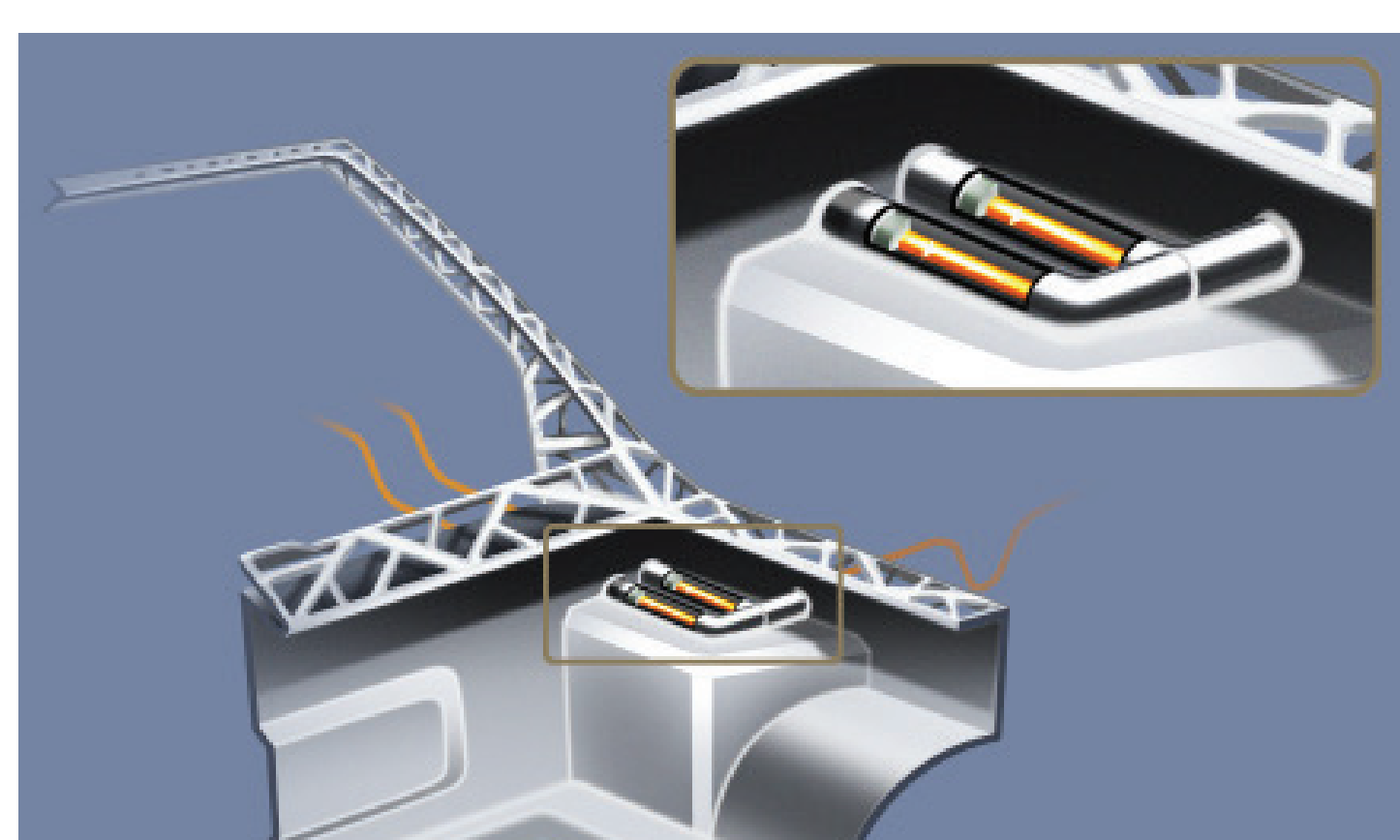
See-through A-Pillar



Mould for Alu Casting



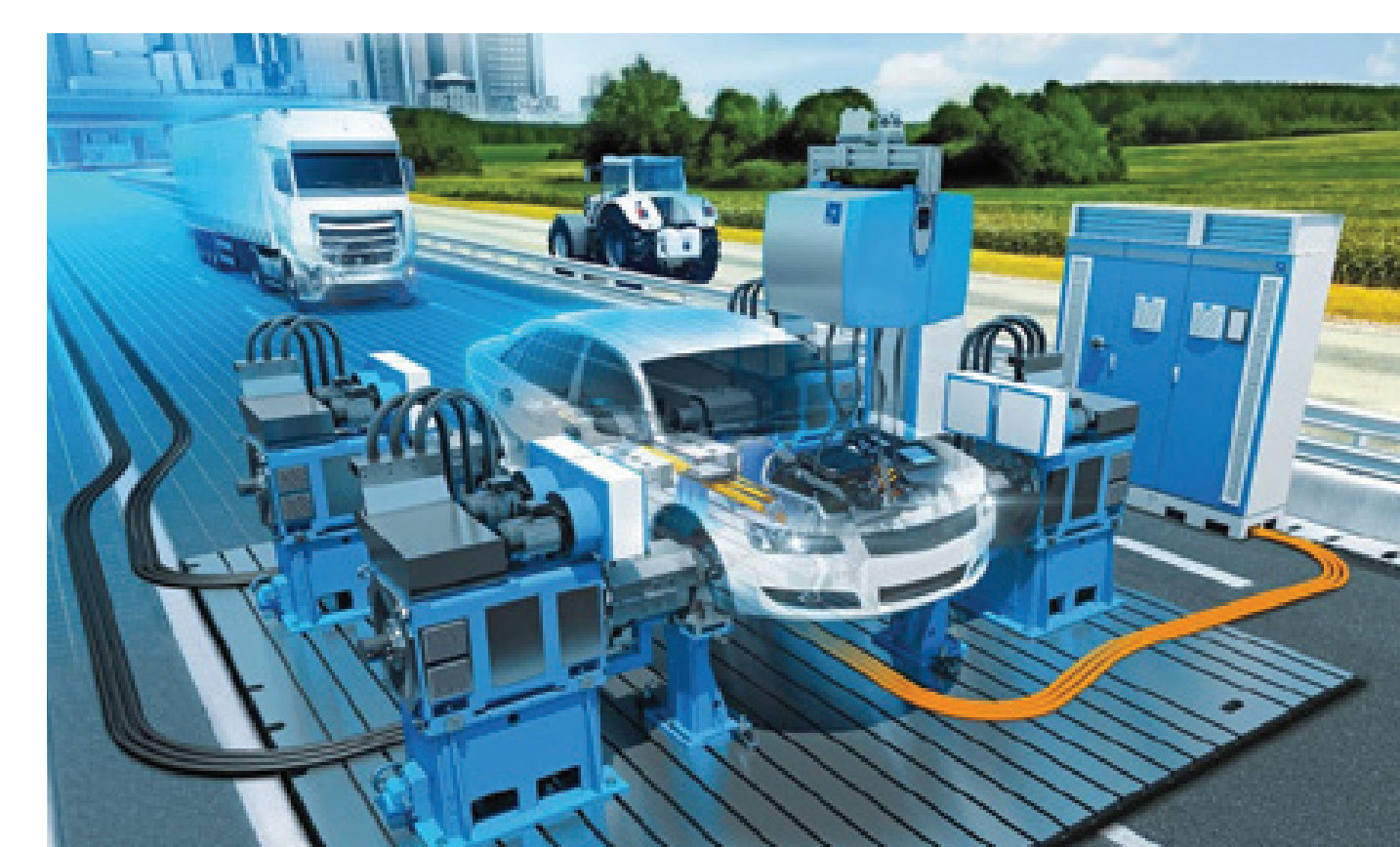
Bulkhead Panel



Dashboard Carrier



Mould for CFRP Parts



Automotive Testing

PARTNERS

