



EU Brokerage Event

on Industrial KET* in Horizon Europe

*Key Enabling Technologies

10th November 2022 • Strasbourg

Conference &
Bilateral/B2B Meetings

Calls
2023- 2024

Project idea/ Field of expertise:

Value chain of metals (production, design, surface, manufacturing, applications, recycling,...)



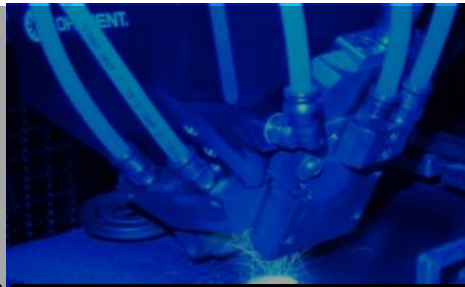
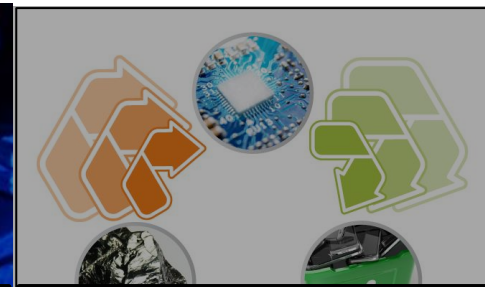
Organisation Name:

CRM Group – Center of Research in Metallurgy

Addressed topic(s):

Circular manufacturing
Direct metal deposition
Metallic coating
Printed electronics on metals
Decarbonisation of metal production

Our project idea / expertise

			
<p>Pre-processing of industrial residues & end-of-life</p>	<p>Resource efficient metal recovery</p>	<p>Design & manufacturing of circular products</p>	<p>Added value materials from secondary resources</p>
<p>Sorting, size reduction, solid-liquid & magnetic separation, intensive mixing and agglomeration</p>	<p>Pyrolysis, vacuum distillation, reduction & (s)melting; high yield processes through AI and sensors</p>	<p>Lean use of alloying elements, durability, traceability, reuse and remanufacturing</p>	<p>REEs for e-drives & wind mills, special metals for batteries & PV panels, geopolymers for insulation, AM powders, ...</p>

Founded in 1948 – 270 people - > 40Mio€ turnover

5 Technological platforms : Advanced Manufacturing, Digitalisation, **Circular Economy**, Energy Shift & Construction

Participation/Coordination of many RFCS projects and 2 HEU projects

Our project idea / expertise



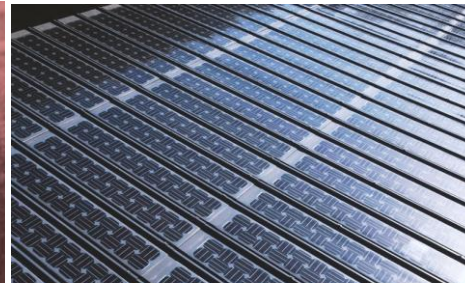
Energy from biomass & waste materials

Conditioning, pre-treatment, carbonisation, gasification
Industrial CO₂ mitigation CCUS, synthetic fuels



Hydrogen production, transport &

Unique testing tools
Materials, coatings and assembly solutions for water electrolysis, pipes, storage tanks and fuel cells



Renewables, energy storage and local power

PVs, solar concentration, wind, batteries, smart grids
Technology, materials, coatings, structures, user-oriented solutions



Analysis, overall assesment and integrated systems

Heat recovery and re-use
Heat integration
Phase-change materials
Holistic optimisation of CO₂, energy efficiency and costs

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