



GRIET LANNOO

For a better future

CRM Group

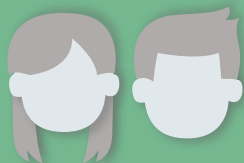
Independent Research organization founded in 1948

Developing industrial solutions involving metals in many sectors



290+

researchers



45+ members
> 350 clients



Gent & Liège
Lab surface >
20.000 m²



49M €

Global budget



Our development axes

Vision & innovation with industrial solutions

PROCESS – PRODUCT –
APPLICATION
DEVELOPMENT

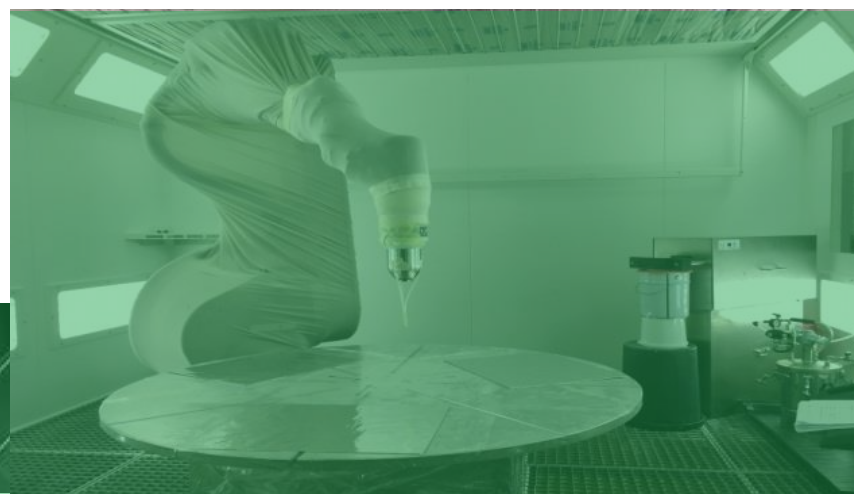
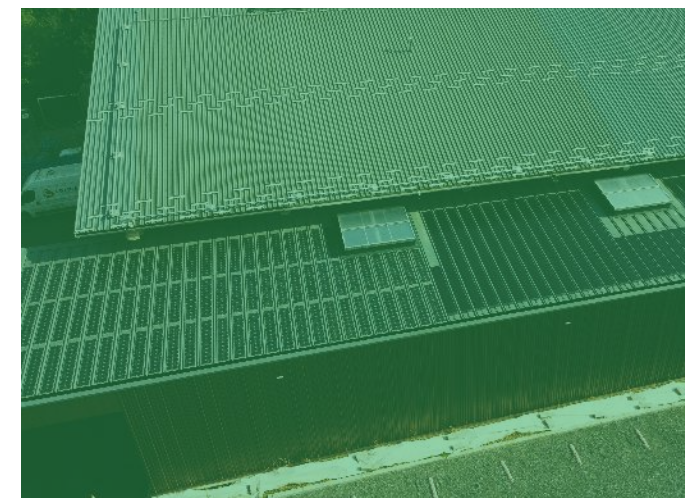
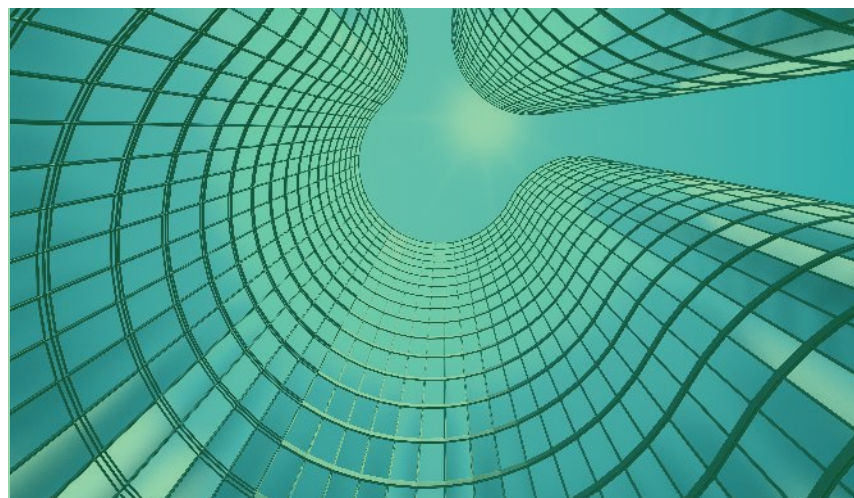
ENERGY SHIFT

ADVANCED
MANUFACTURING

INDUSTRY 4.0 &
DIGITALISATION

CIRCULAR ECONOMY

CONSTRUCTION

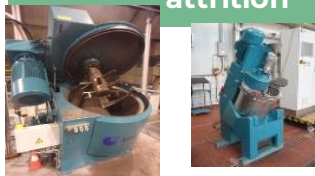


For a better future

Efficient recycling of by-products, manufacturing residues & end-of-life products requires appropriate pre-processing



Mixing / granulation / attrition



Compaction
60-100kg/h



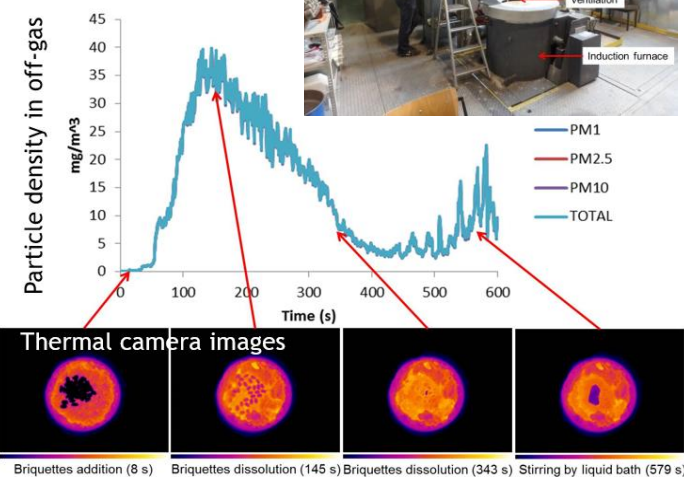
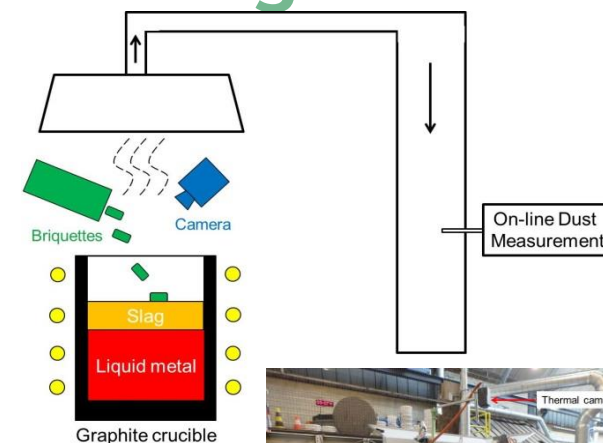
Pelletising
Ø40-140cm



extrusion



Briquetting
50-450kg/h



Industrial partnerships

aperam

BIOCARBON

Aurubis

BASF
The Chemical Company

eramet

umicore

HYDROMETAL

MARICHAL KETIN

SAFRAN

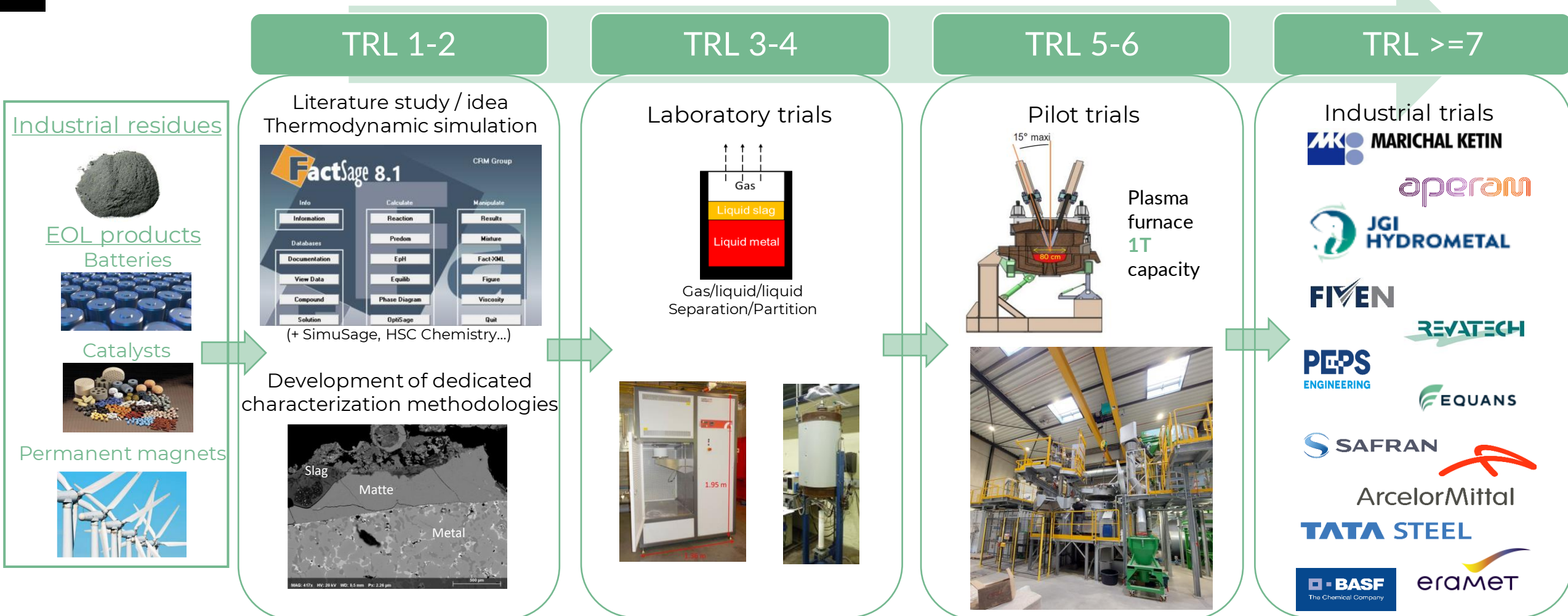
ArcelorMittal

TATA STEEL

REVATECH

FIVEN

Pyrometallurgical routes or pre-treatments for CRM's recycling



Dismantling of complex materials



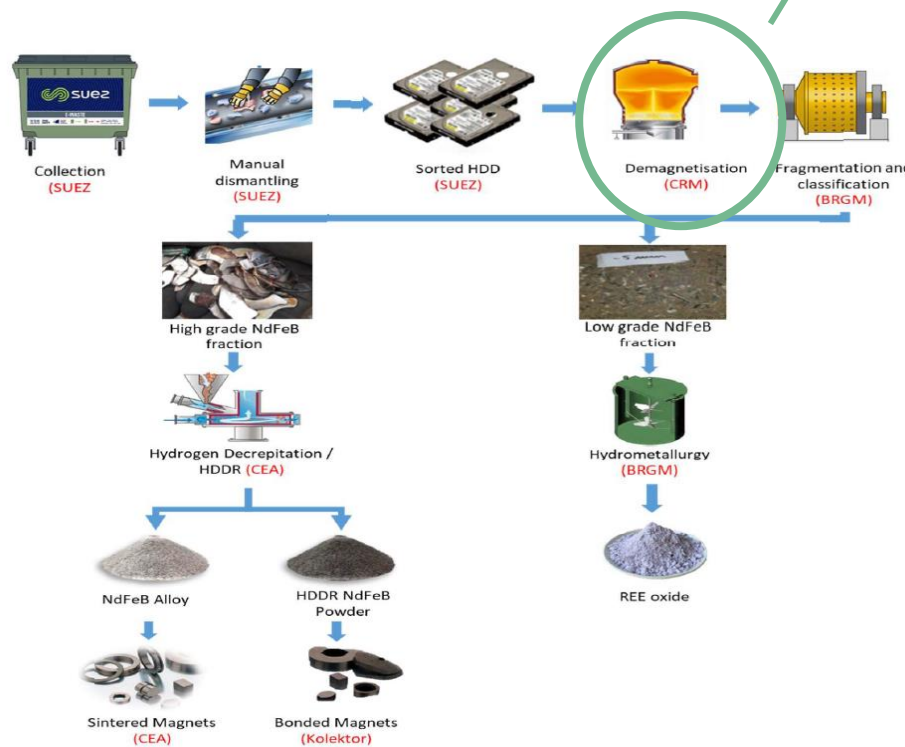
Co-funded by the
European Union



RawMaterials
Connecting matters

Thermal treatment for de-magnetisation & easier separation

VALOMAG

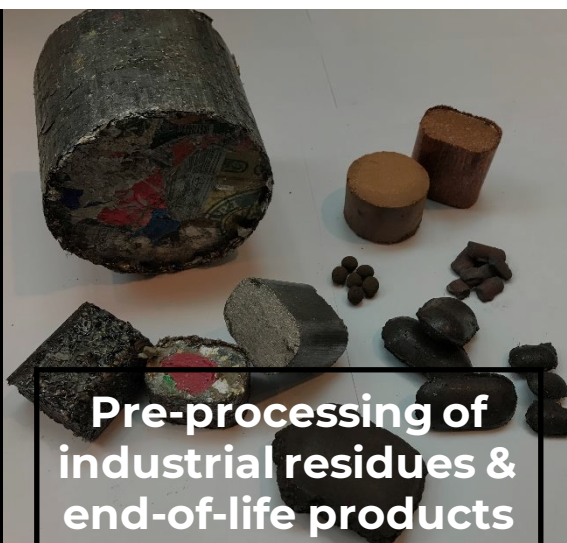


For a better future

@ CRMgroup we offer

Upscaling capabilities

Network & know-how for creating the industrial symbiosis across sectors



Pre-processing of industrial residues & end-of-life products

Sorting, size reduction, solid-liquid & magnetic separation, intensive mixing and agglomeration



Resource efficient metal recovery

Pyrolysis, vacuum distillation, reduction & (s)melting; high yield processes through AI and sensors



Design & manufacturing of circular products

Lean use of alloying elements, durability, traceability, repair, reuse and remanufacturing



Added value materials from secondary resources

REEs for e-drives & wind mills, special metals for batteries & PV panels, geopolymers for insulation, AM powders, ...

THANK YOU

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For a better future