

K1-MET OVERVIEW

Research Areas



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Area 1

Resources & Recycling

- Process development and raw material characterization in the field of mineral processing
- Valuable material separation and recycling of metallurgical residues
- Development of process gas cleaning systems for the iron and steel production

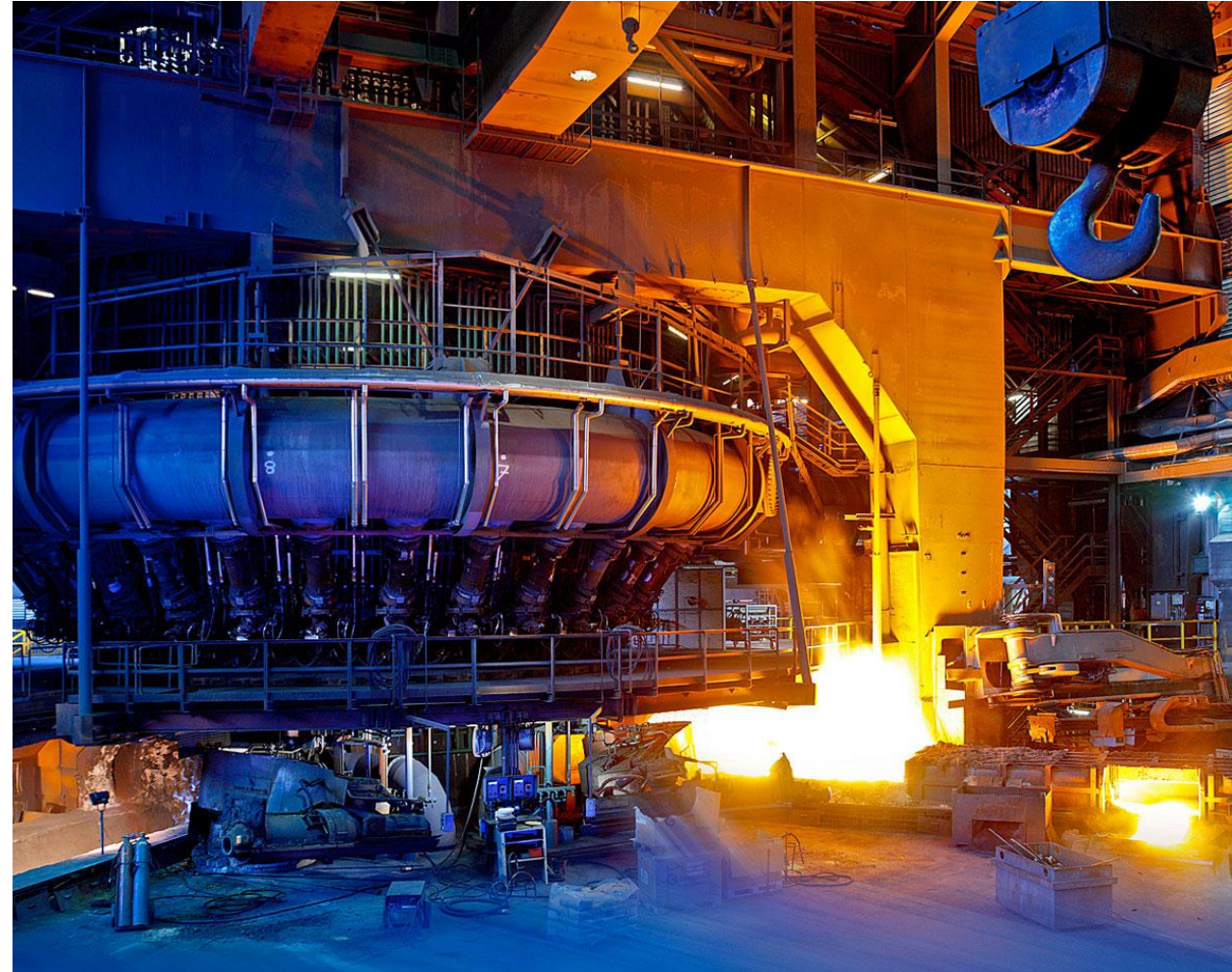




Area 2

High temperature metallurgy

- Reduction technologies of ferrous and non-ferrous metallurgy
- Influence of additives on the process characteristics in BOF technologies
- Steel refining technologies for special steelmaking
- Behaviour and characterization of refractory materials





Area 3

Processing & Energy Optimization

- Solidification process and material properties in the continuous casting process
- Experimental and numerical simulation of the formation of surface defects
- Efficient integration of heat- and production processes

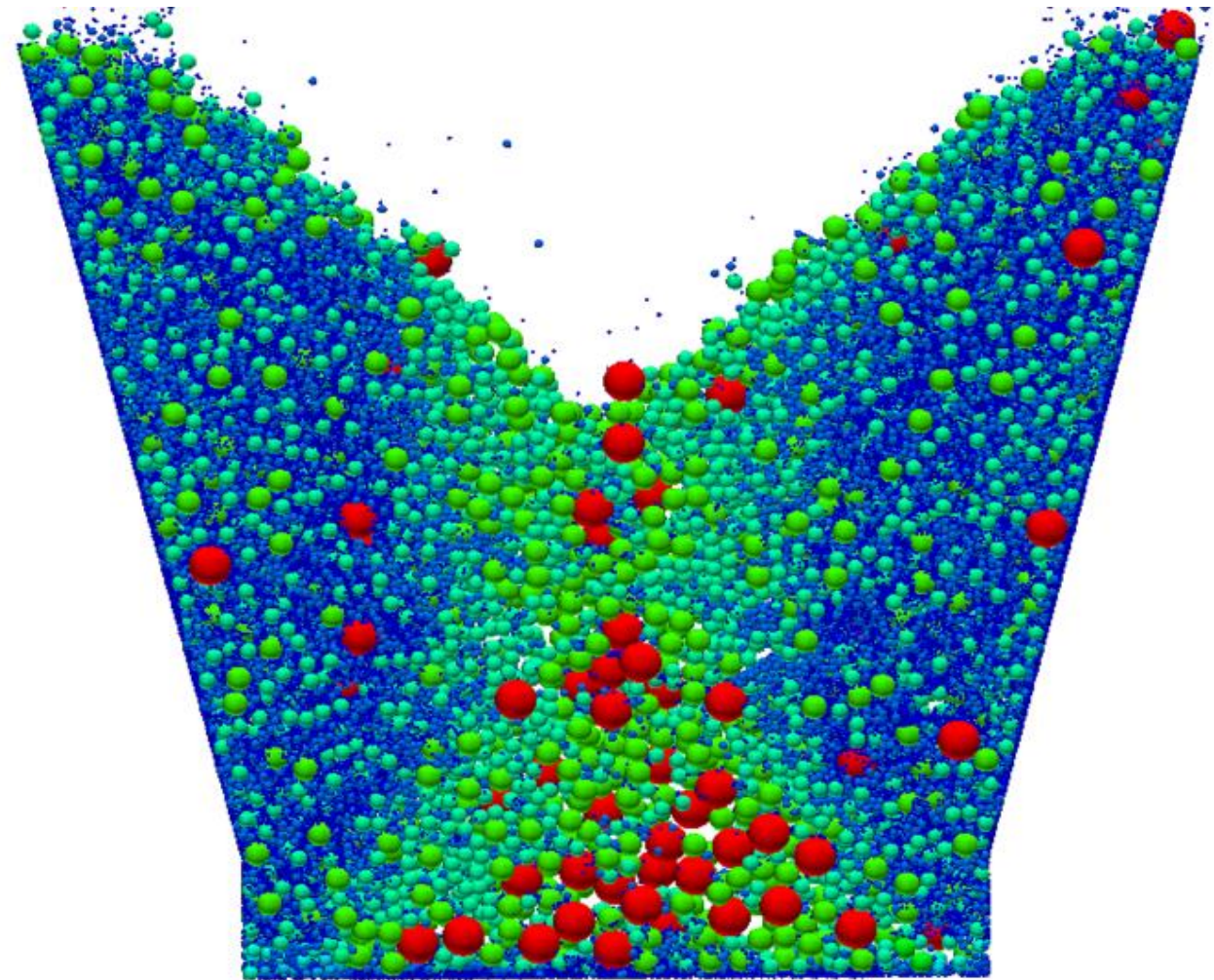




Area 4

Modelling & Simulation

- Comprehensive multiphase flow models for metallurgical processes
- CFD, DEM and coupled CFD-DEM codes
- Consistent and consolidated models available on simulation platform
- High quality simulation tools from particle scale to plant scale



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