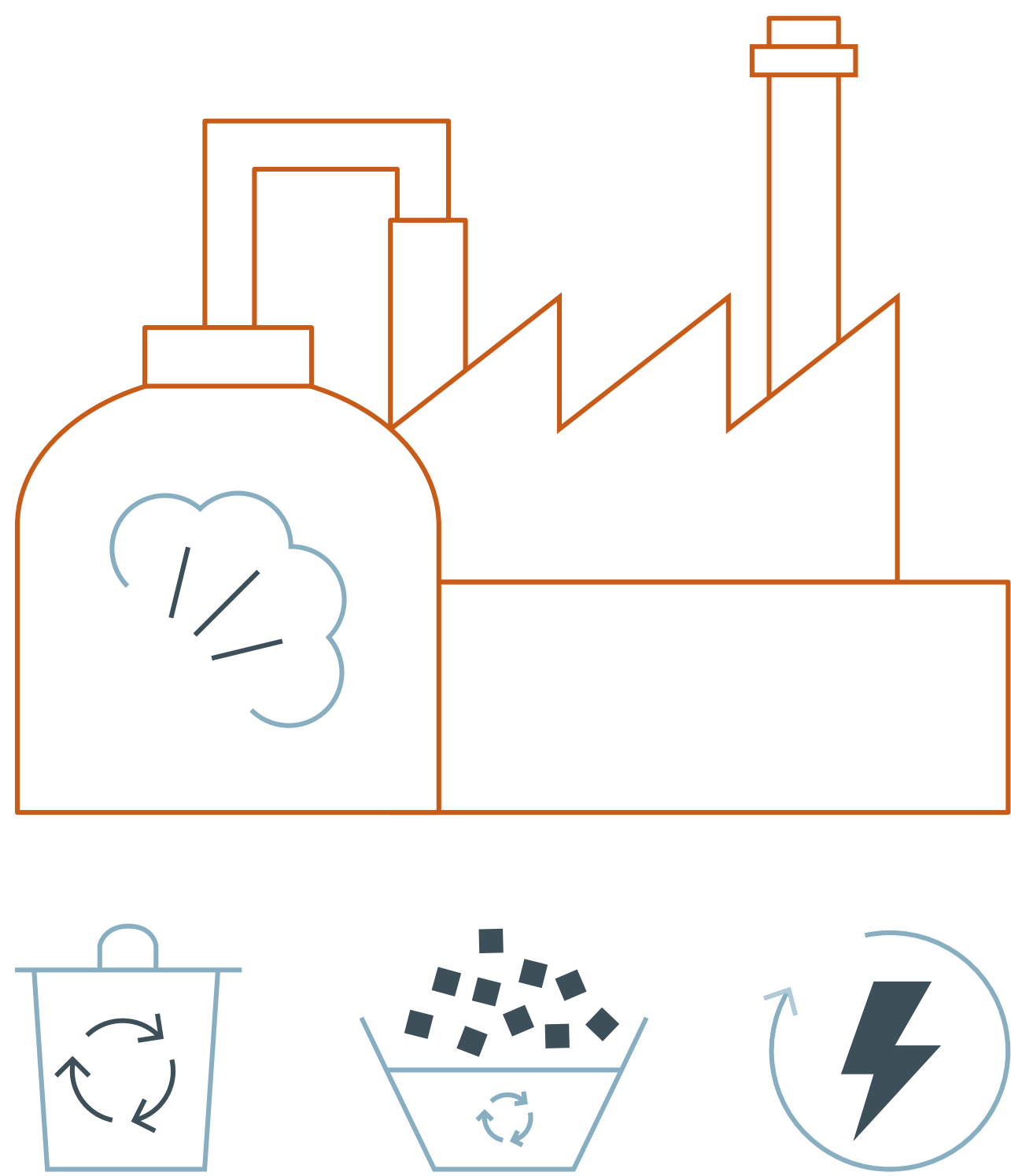
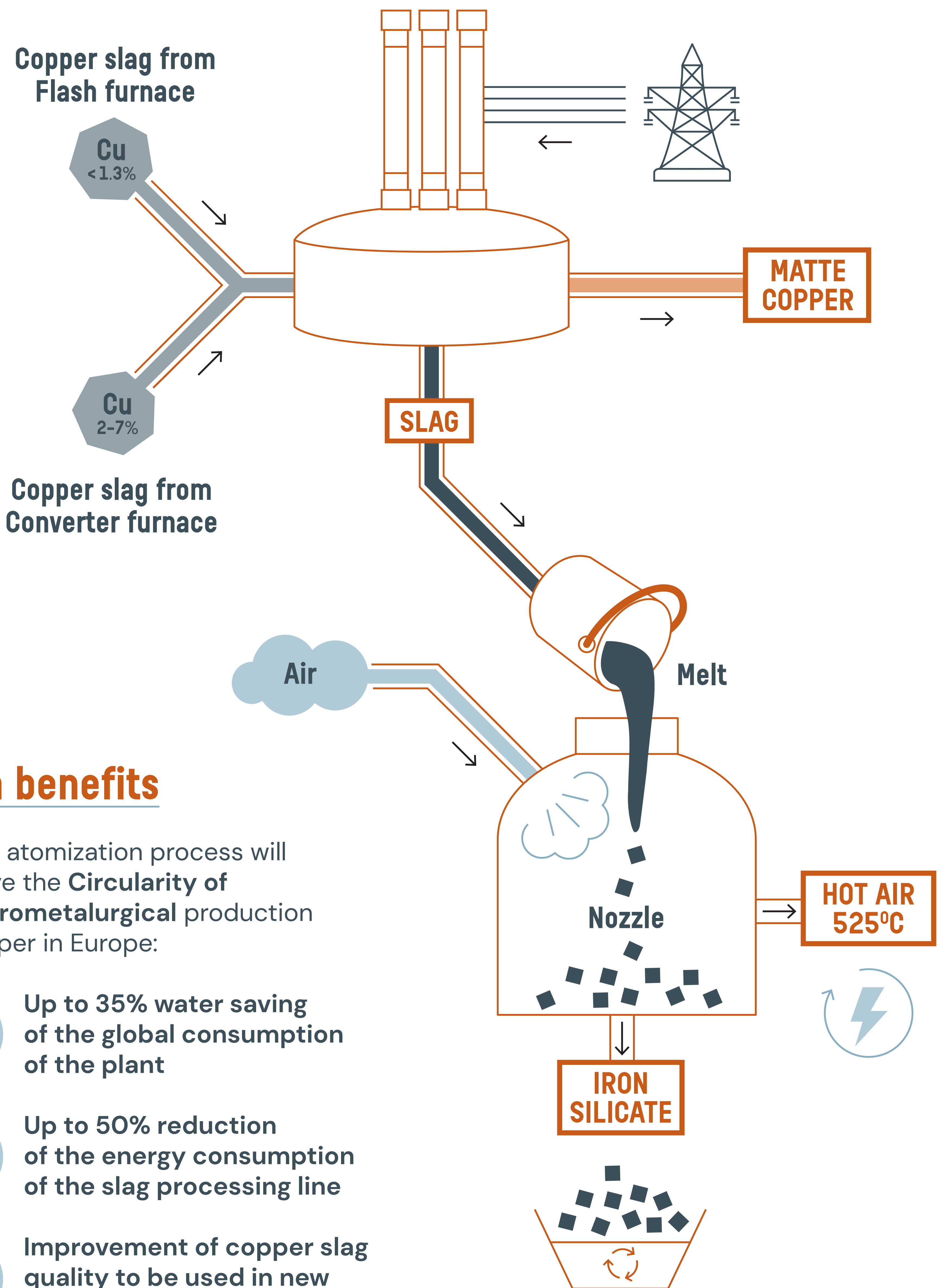


Waterless Iron Silicate Production with Energy Recovery

NEW IRON SILICATE PRODUCED WITH THE AIR ATOMISATION TECHNOLOGY



Flowsheet of the dry granulation process



The WHISPER project

The aim of WHISPER (Waterless Iron Silicate Production with Energy Recovery) is to develop a new iron silicate produced with the atomisation technology while evaluating and demonstrating the new properties of the material for improved commercial applications.

The project led by Atlantic Copper, will enable an optimal use of raw materials within Europe and will contribute to European Commission's current strategy on Circular Economy.

Main benefits

The air atomization process will improve the **Circularity of the Pyrometallurgical production of copper in Europe:**

- Up to 35% water saving of the global consumption of the plant
- Up to 50% reduction of the energy consumption of the slag processing line
- Improvement of copper slag quality to be used in new applications in building & construction sector

Timeline: from TRL 5 to 7

Academic expertise is supporting this upscaling project:

- Material characterisation and valorisation studies
- Sustainability impact assessment (environmental life cycle assessment, life cycle costing)
- Business plan & Go-To-Market strategy

2015-2018
TRL 5

Preliminary test in a relevant environment

APRIL 2019 – MARCH 2020
TRL 6

Technology demonstrated in a relevant environment

APRIL 2020 – APRIL 2021
TRL 7

System prototype demonstration in an operational environment

FINAL VALIDATION OF THE UPSCALING PROJECT

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