



The driving
force of the
refractory industry

We are committed to
decarbonisation

Martin Pischler





RHI MAGNESITA

The global leader in refractories

There for you, wherever you need us

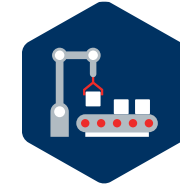


13,500
Employees

€ 3.3bn
2022 revenue

€ 77m
Investment in R&D and
Technical Marketing
including low-CO₂
emission products

+1,500
Active patents



33
Main production
sites (incl. raw
material sites)



+100
Countries shipped
to worldwide



5
R&D hubs and
centres

Refractories: the building blocks of modern life



1 tonne of STEEL
demands ~10-15 kg
of refractories



1 tonne of CEMENT
demands ~1 kg
of refractories



1 tonne of GLASS
demands ~4 kg
of refractories



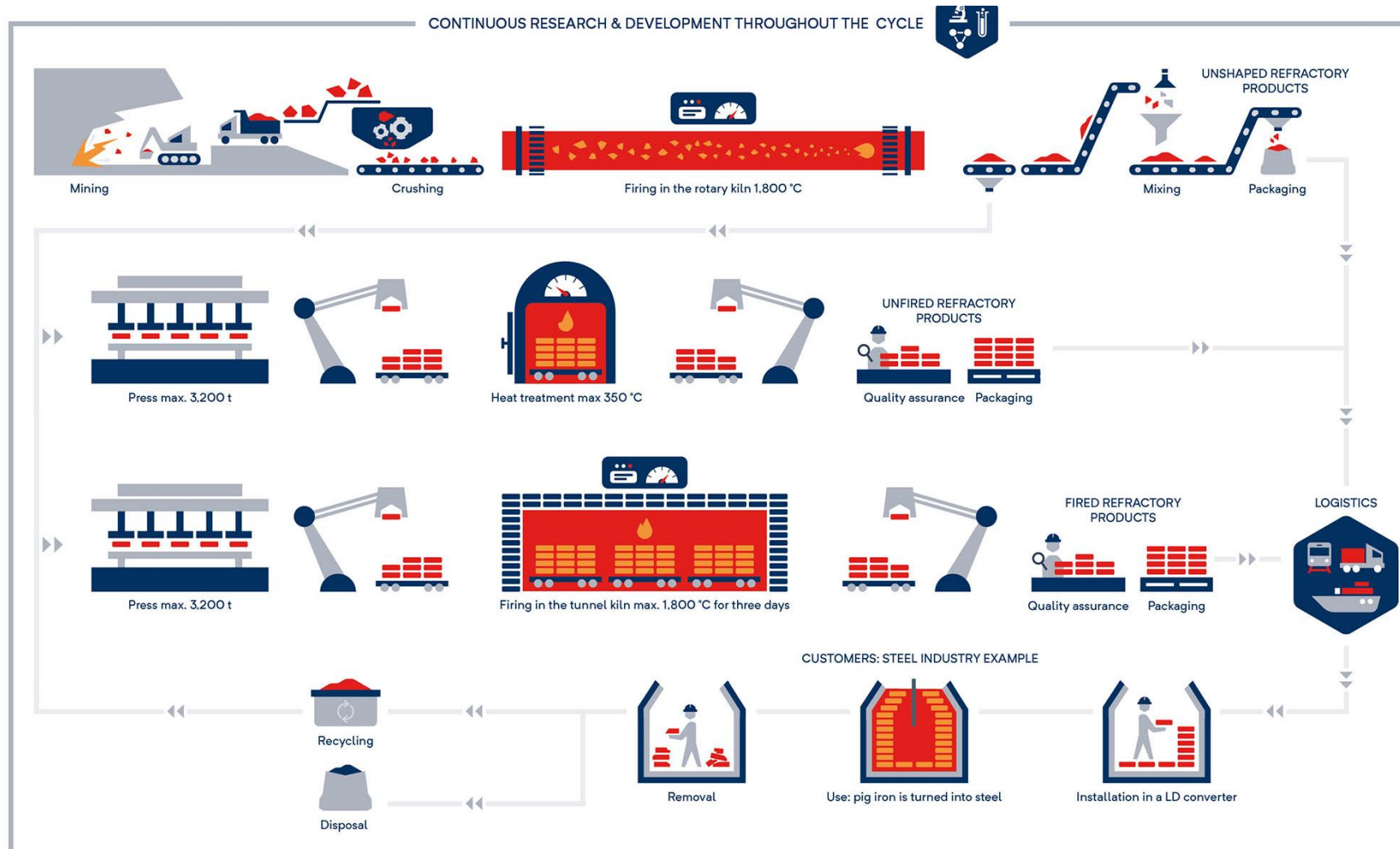
1 tonne of ALUMINIUM
demands ~6 kg
of refractories



1 tonne of COPPER
demands ~3 kg
of refractories

The refractory world of RHI Magnesita

Our value chain: from raw material to refractory product



* Example magnesia product line

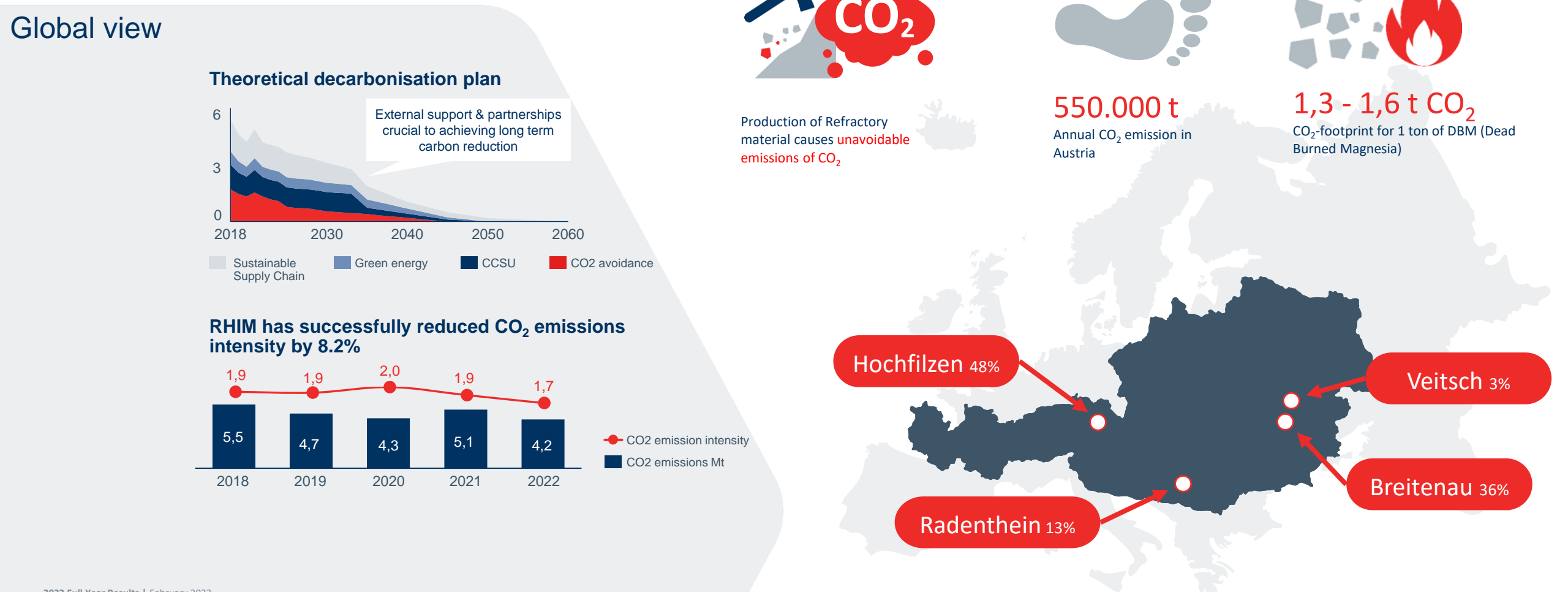
Decarbonisation pathway

Our commitment:

- Decarbonise our operations as fast as sustainably possible.
- Invest in the development of new technologies to avoid CO₂ emissions.
- Offer our customers enabling technologies with full carbon footprint transparency.
- Work with industry partners sector to develop new renewable energy solutions and hydrogen energy networks.

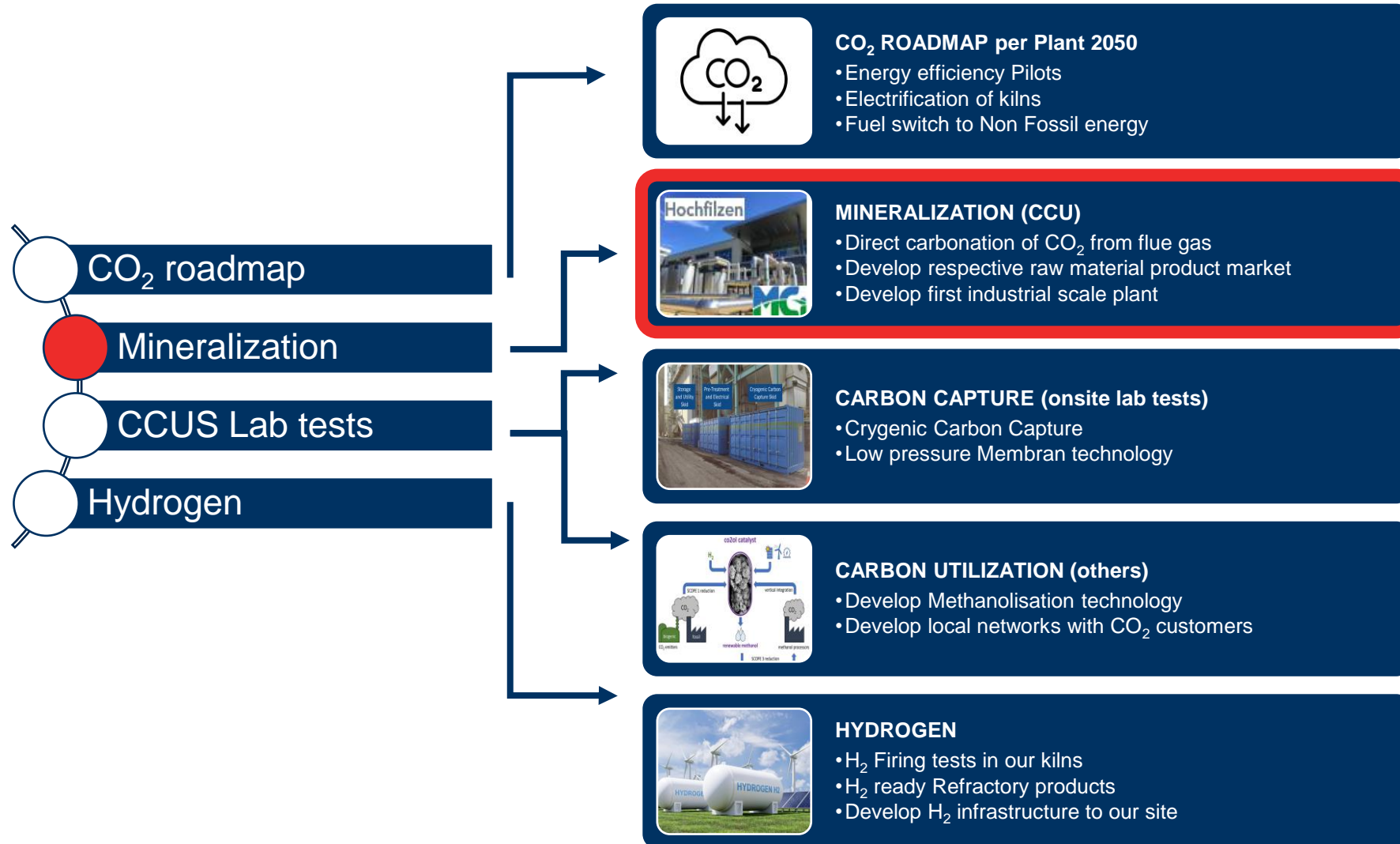


Decarbonisation pathway



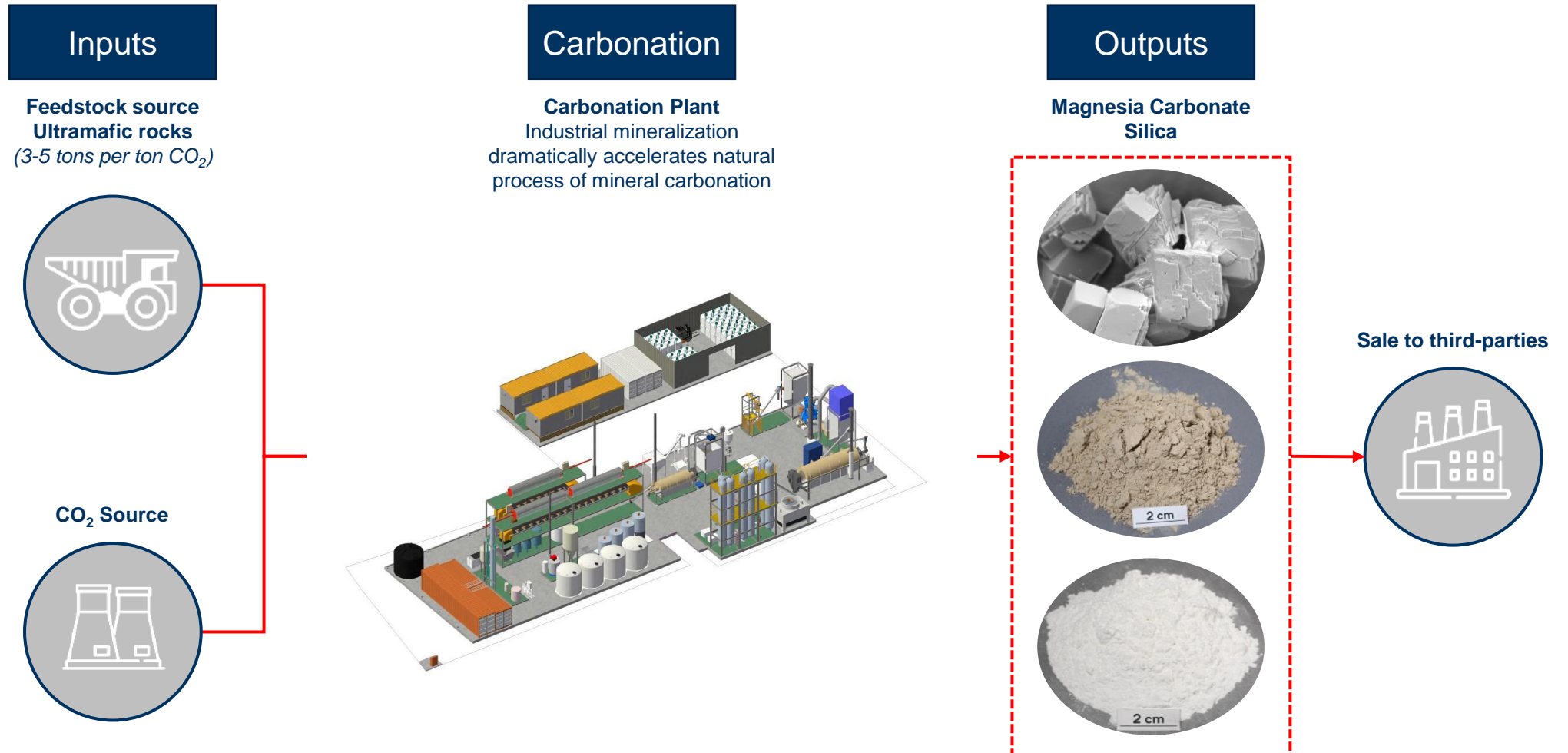
Our technology portfolio for CO₂ reduction

Sustainable Technologies & Decarbonization



How does mineral carbonation work

Large scale CO₂ storage through acceleration of natural process of mineral carbonation



How does mineral carbonation work

Large scale CO₂ storage through acceleration of natural process of mineral carbonation

Inputs

Feedstock source
Ultramafic rocks
(3-5 tons per ton CO₂)

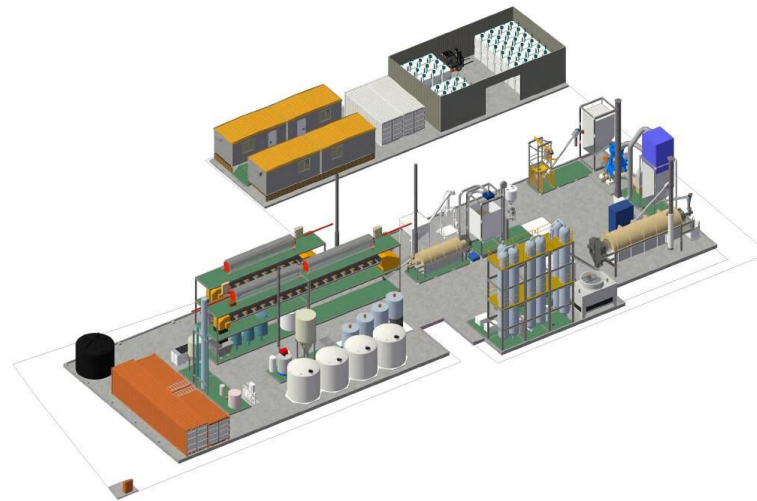


CO₂ Source



Carbonation

Carbonation Plant
Industrial mineralization
dramatically accelerates natural
process of mineral carbonation

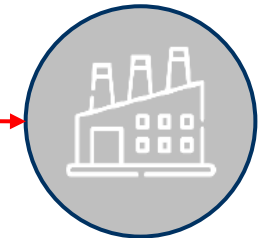


Outputs

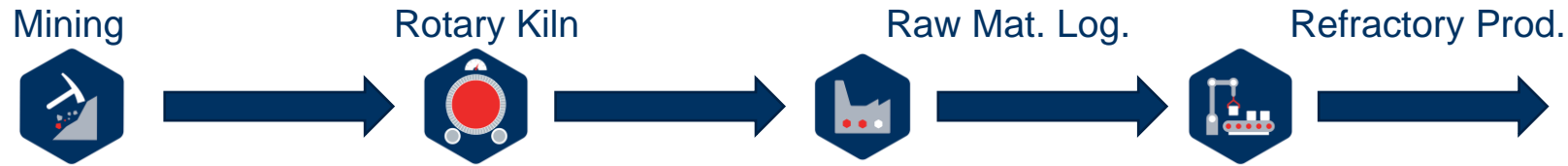
Magnesia Carbonate
Silica



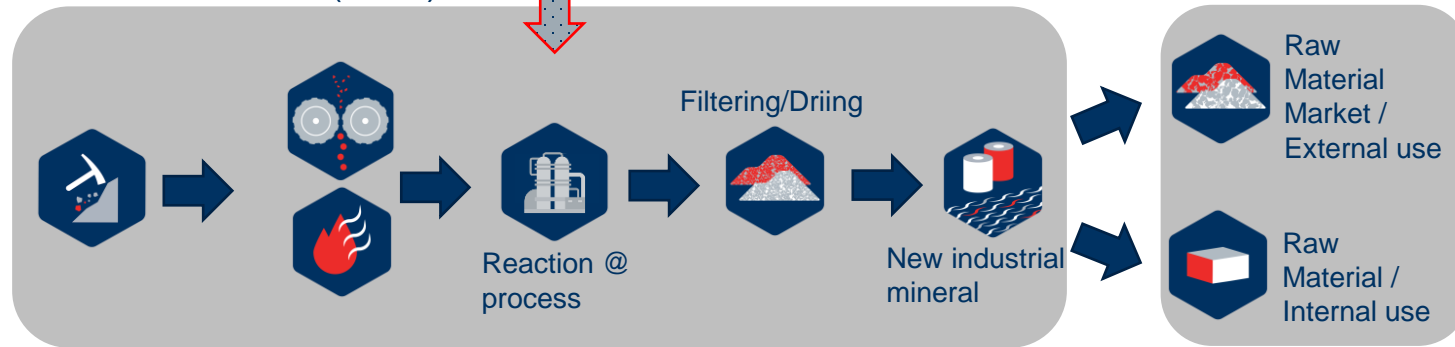
Sale to third-parties



Here the trouble starts!



Mineralization (CCU)



„ETS relevant GHG emission have to stay chemically bonded for > 500 years“

Financial viability for the process is key for such a process!

HOW to prove that in a LFA – is the big question.



RHI MAGNESITA

Get in touch – stay in touch

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