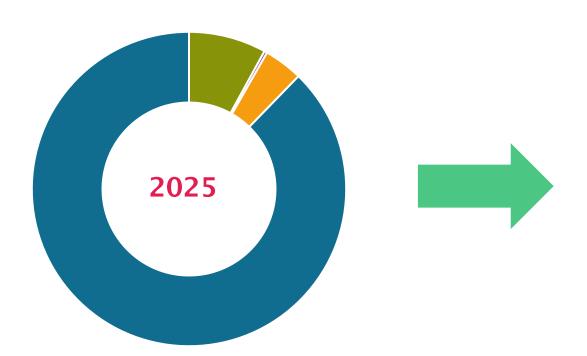




Simplified CO₂ Recycling to Methanol by our Sulfur Resistant Catalyst!

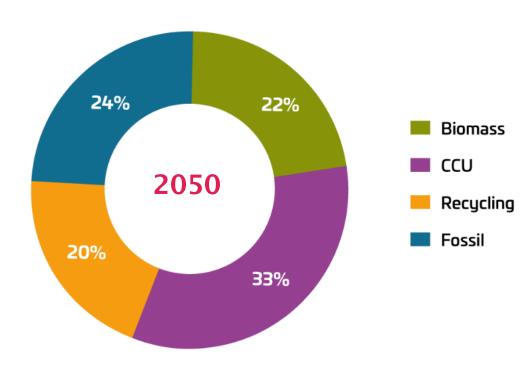
Chemistry - Transformation to Net Zero

88% fossil



Chemistry is 3rd largest CO₂ emitting industry!*

Renewable feedstock**

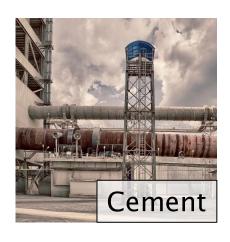


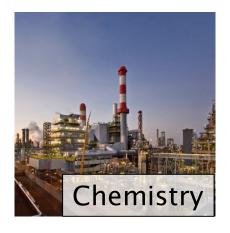
Net Zero commitment by all major chemical companies!

^{*} International Energy Agency; https://www.iea.org/energy-system/industry/chemicals

^{**} Graphics adopted from NOVA Institute, www.renewable-carbon.eu

CO₂ - from Problem to Solution

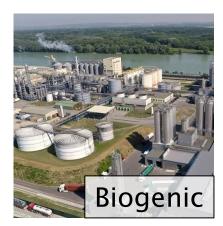


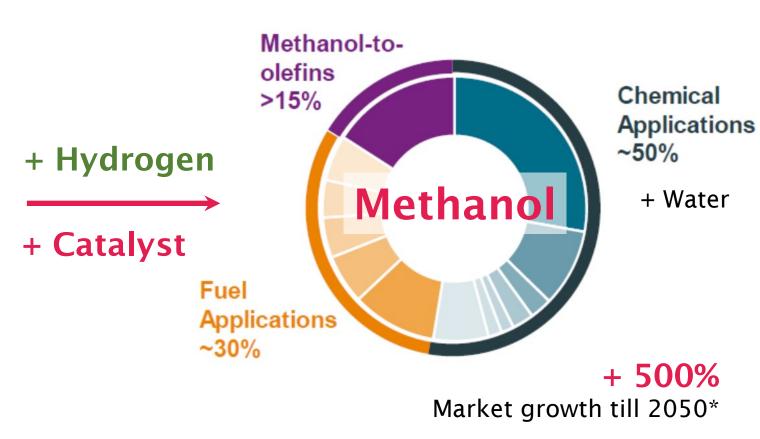


Hard-to-abate / Biogenic









^{*} IRENA and Methanol Institute: Innovation Outlook: Renewable Methanol, 2021.

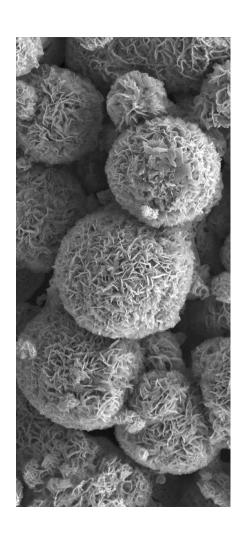
Problems using CZA catalysts

Extra cost for precleaning efforts due to deactivation by common flue gas impurities (S)!

Sintering of Cu-particles at elevated operation conditions!



cool catalyst



Next generation

MoS₂ CATALYST

offers outstanding

IMPURITY TOLERANCE



cool catalyst

REDUCED NEED FOR PRECLEANING

- CO₂ cost < 30 €

HIGH FLEXIBILITY

- to any source of CO₂

IMPROVED EFFICIENCY

- operating at < 220 °C and < 40 bar
- no sintering

15% CAPEX SAVINGS*

5 Mio€/a OPEX SAVINGS*

30% FASTER PAYBACK*

Our Key Markets

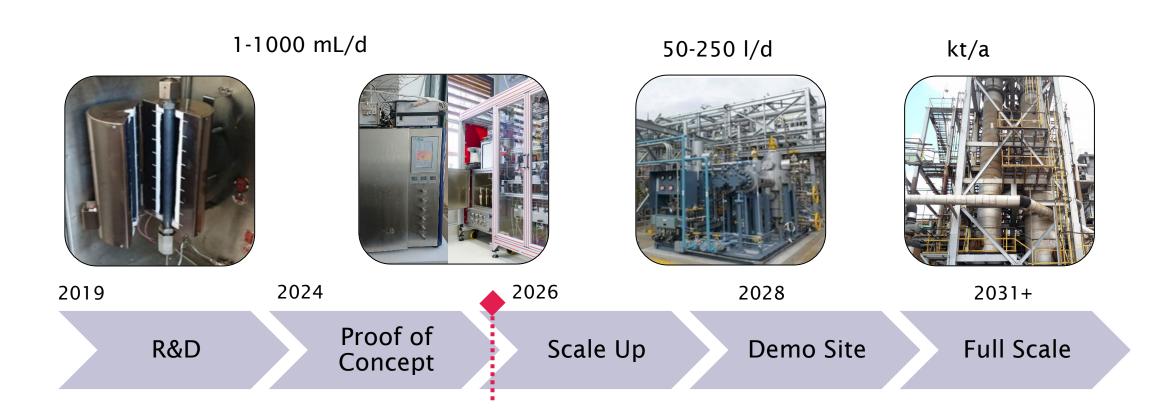


(chemical) Industry



Biogenic CO₂ sources

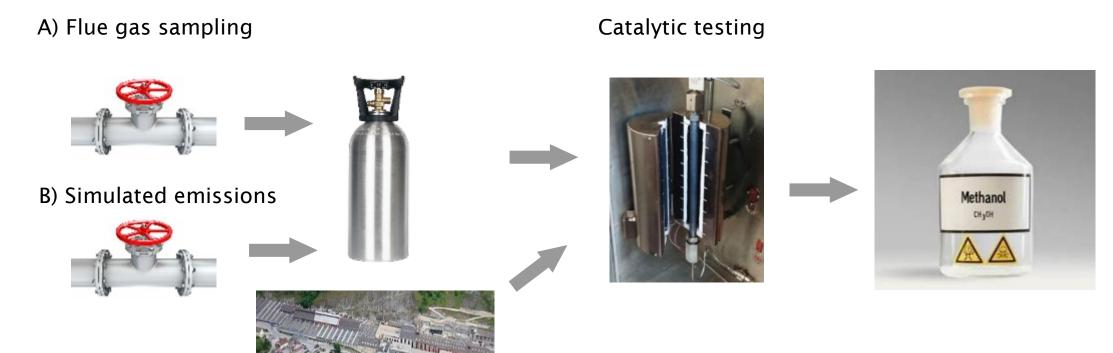
From Science to Business



Proof-of-Concept possibilities

Matching catalyst with actual CO₂ streams

C) on-site exposure



The Founders Team



Karin Föttinger

CTO >20 years in academic & applied catalysis research



Christian Weilach

CEO >10 years industrial R&D, technology upscaling, BD



Francesco Valentini

COO PhD in applied catalyst development



Embedded in Strong Network Facilities, Services, Talents

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