

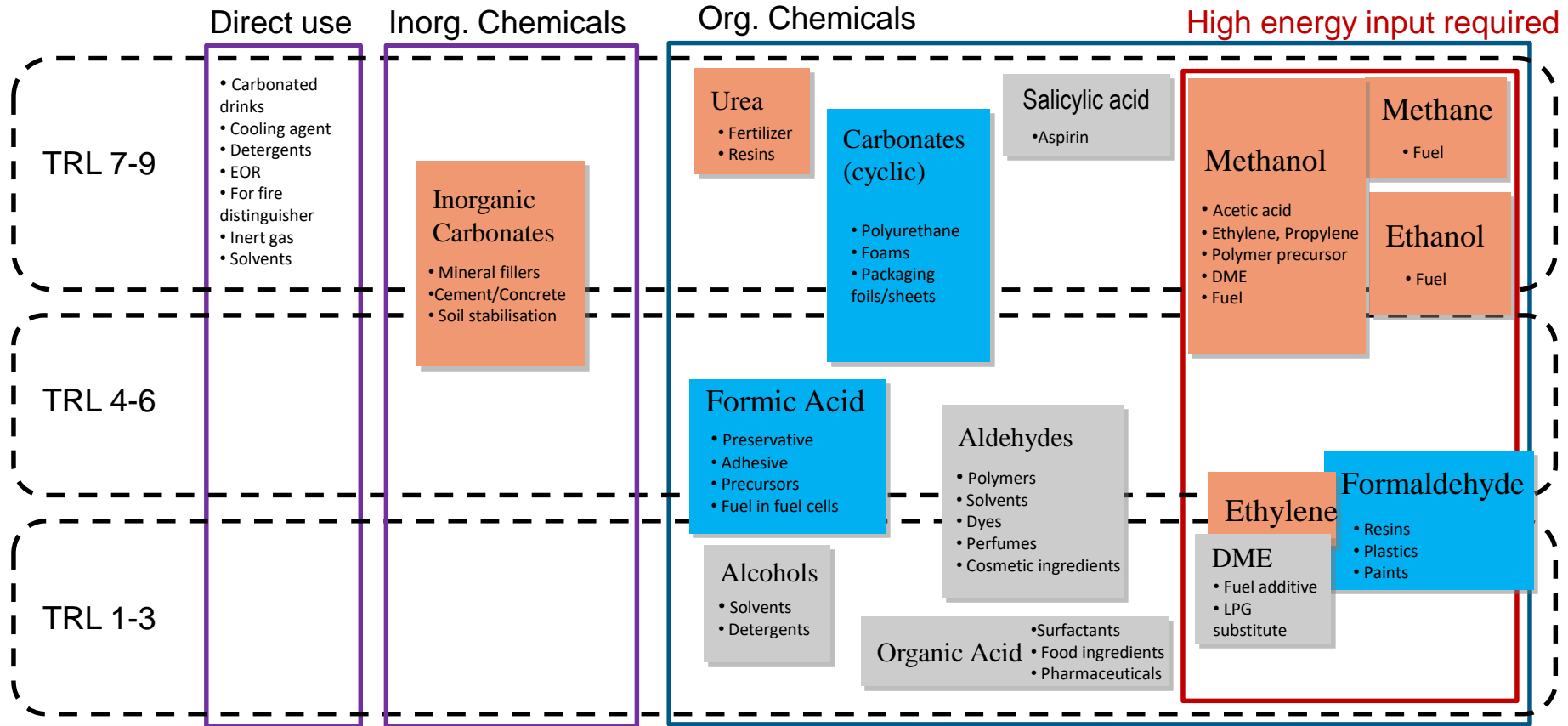
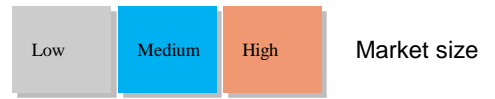


Dr. Andreas Förster

Challenges and demand for R&D on CO₂ utilization

SusChem Stakeholder Meeting 2019

Products from CO₂



Pillars for accelerating the market entrance of CCU products

Knowledge sharing

Marketing

Infra

For all CCU-pathways

Regulations

Cross sectoral co-operations

Demand for R&D (Power to chemicals)

- Investigation of co-electrolysis of CO₂ and water in SOE to syngas
- Investigation of electrochemical processes based on new materials and a better understanding of electrochemistry
- Improvement of productivity; development of novel catalysts
- Increase scale of demo plants and build up operation experience
- Electrochemical reduction of CO₂ to formic acid; process concepts incl. cost effective solutions to concentrate formic acid solutions
- Direct electrocatalytic conversion of CO₂ to ethylene
- In general: Catalysts with long-term performance characteristics and low energy use

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