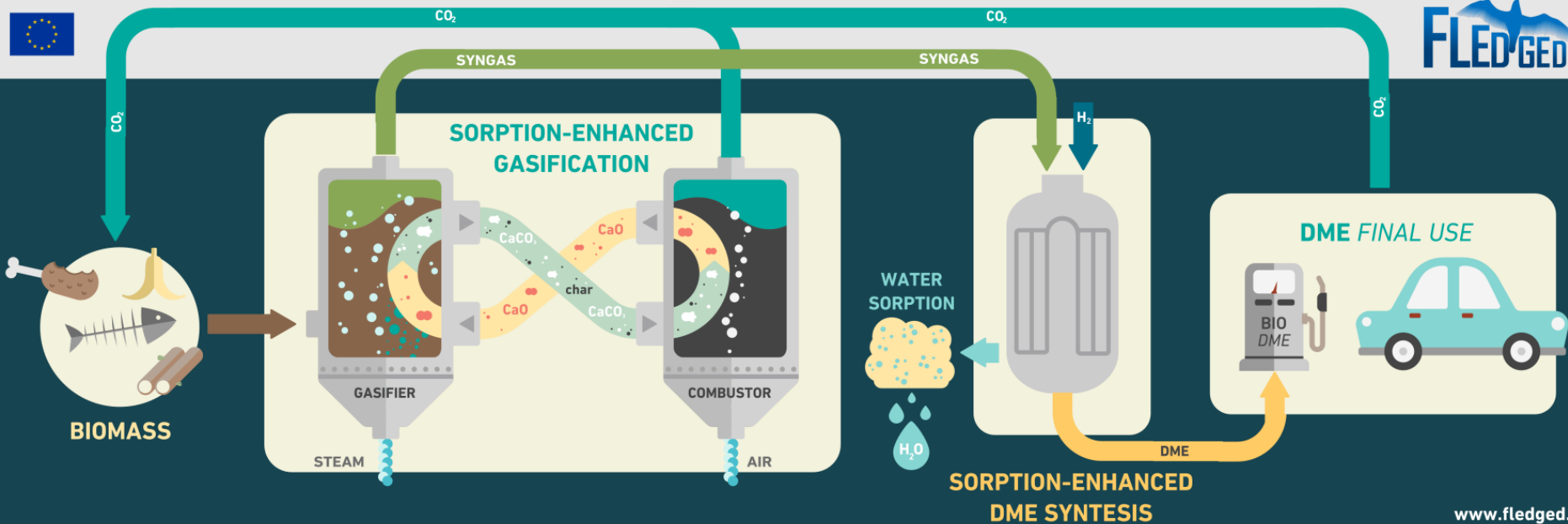




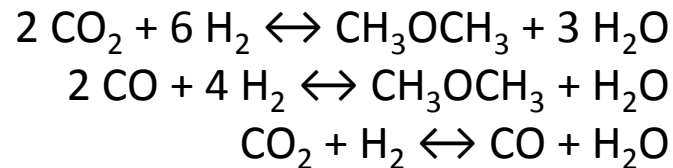
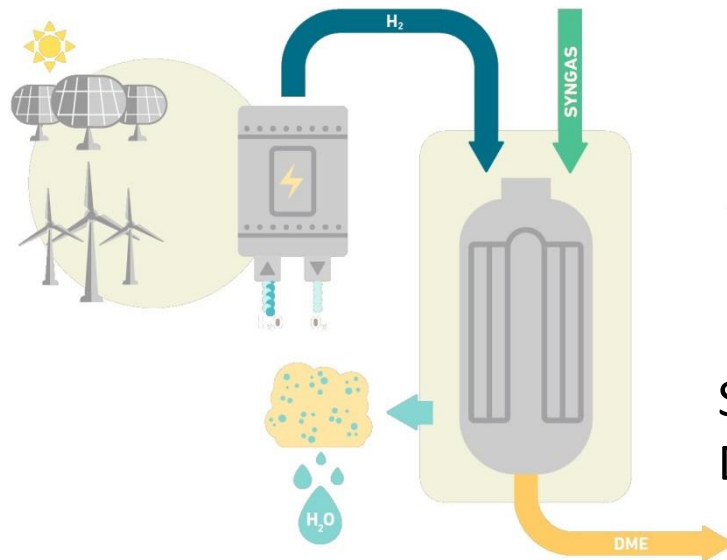
# The Future of DME Synthesis

6 December 2017, CHAINS



# SEDMES

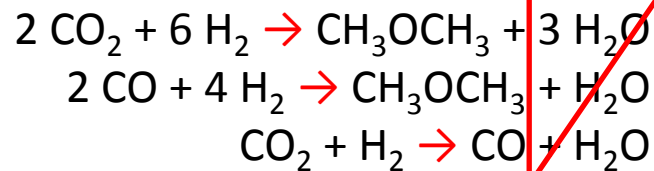
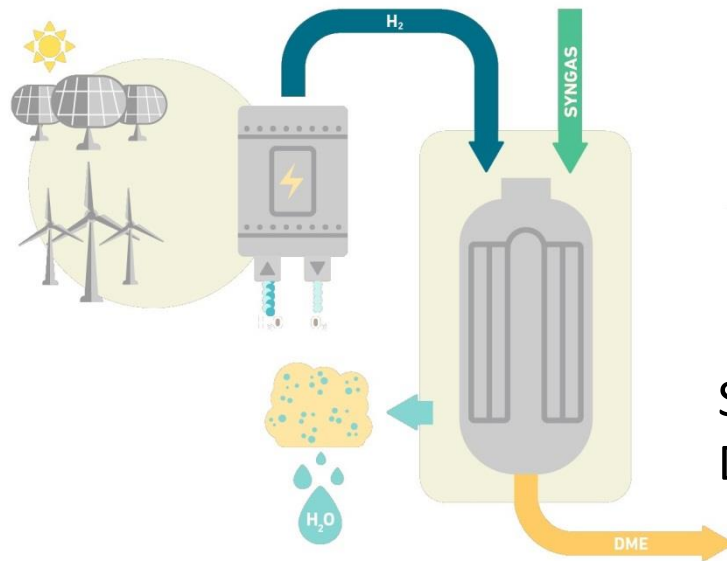
Sustainable hydrogen  
production



Sorption-enhanced  
DME synthesis

# SEDMES

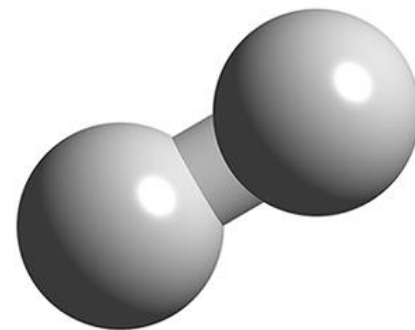
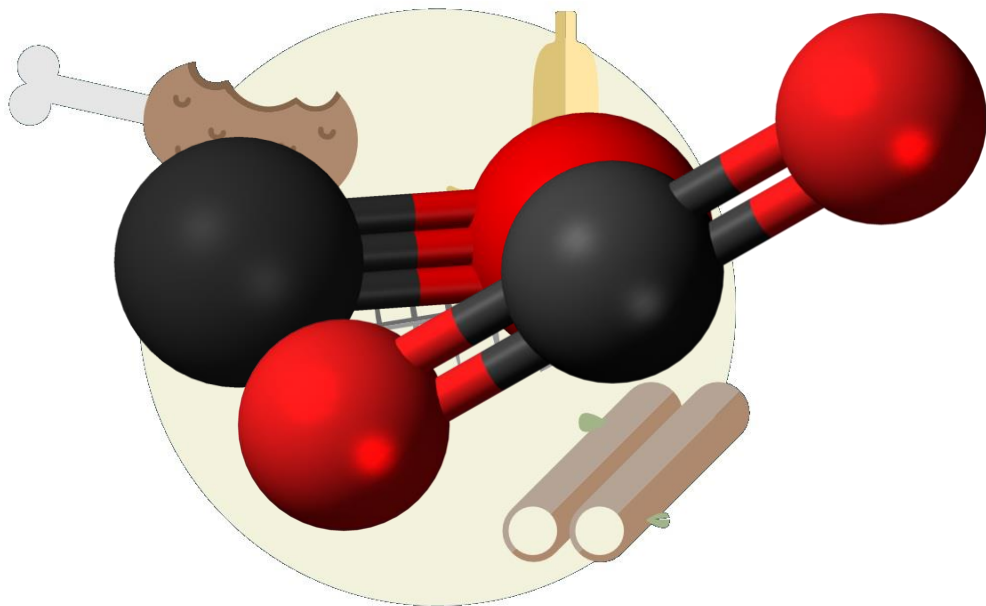
Sustainable hydrogen  
production



Sorption-enhanced  
DME synthesis

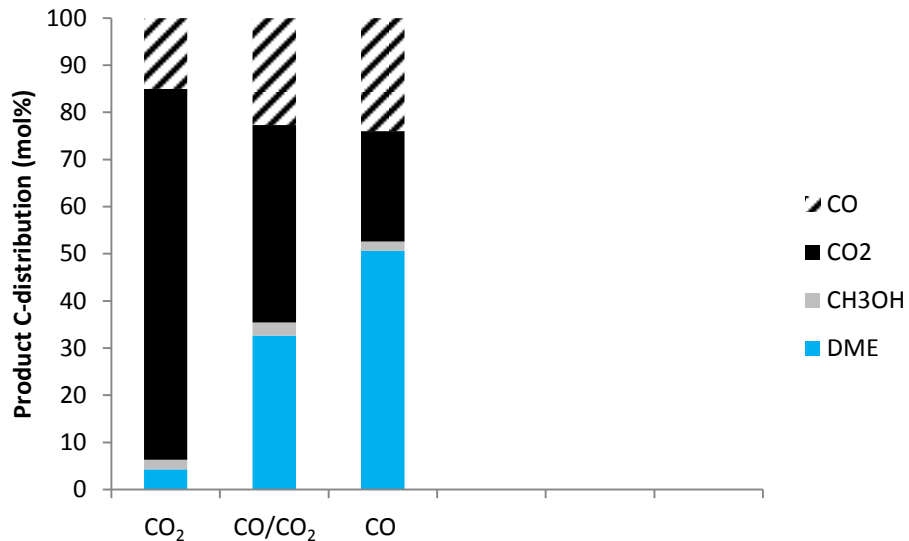
# Feed flexibility

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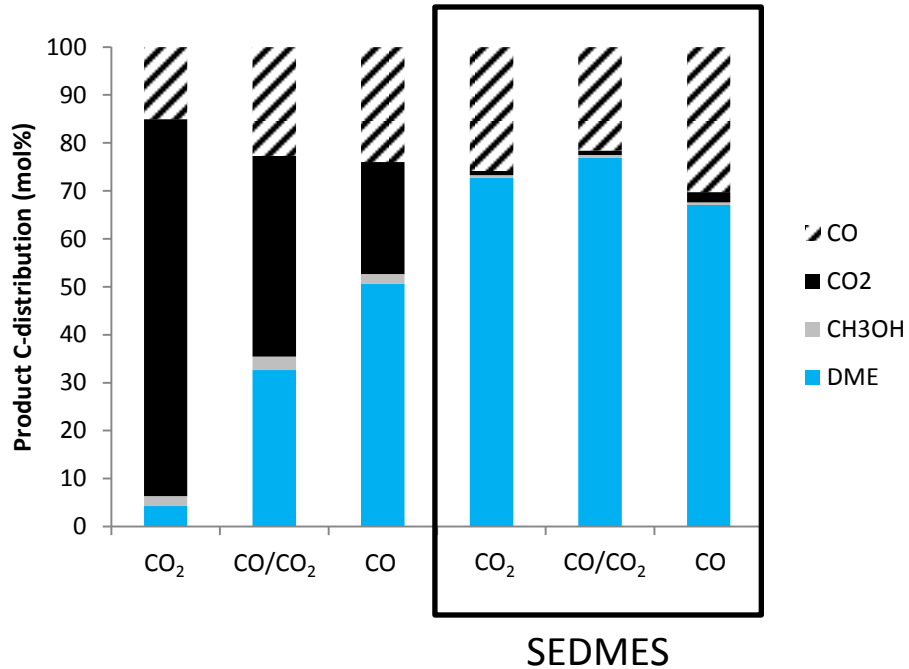
# Feed flexibility

- Conventional direct DME synthesis
- Thermodynamic equilibrium



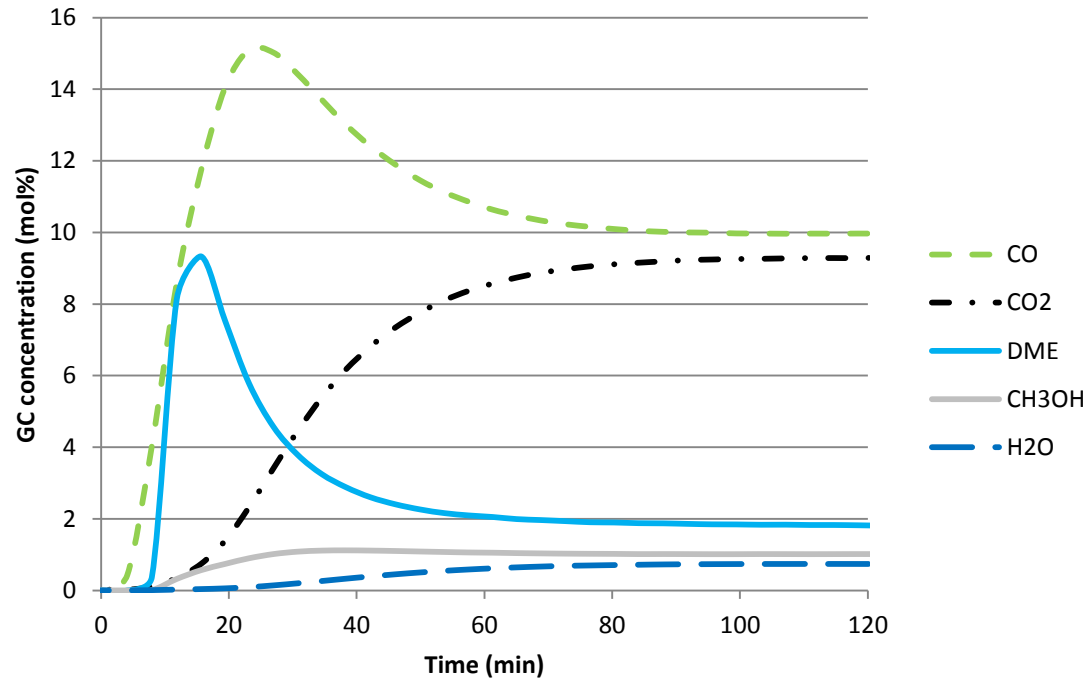
# Feed flexibility

- Sorption-enhanced DME synthesis
- Experimental results



# Regeneration

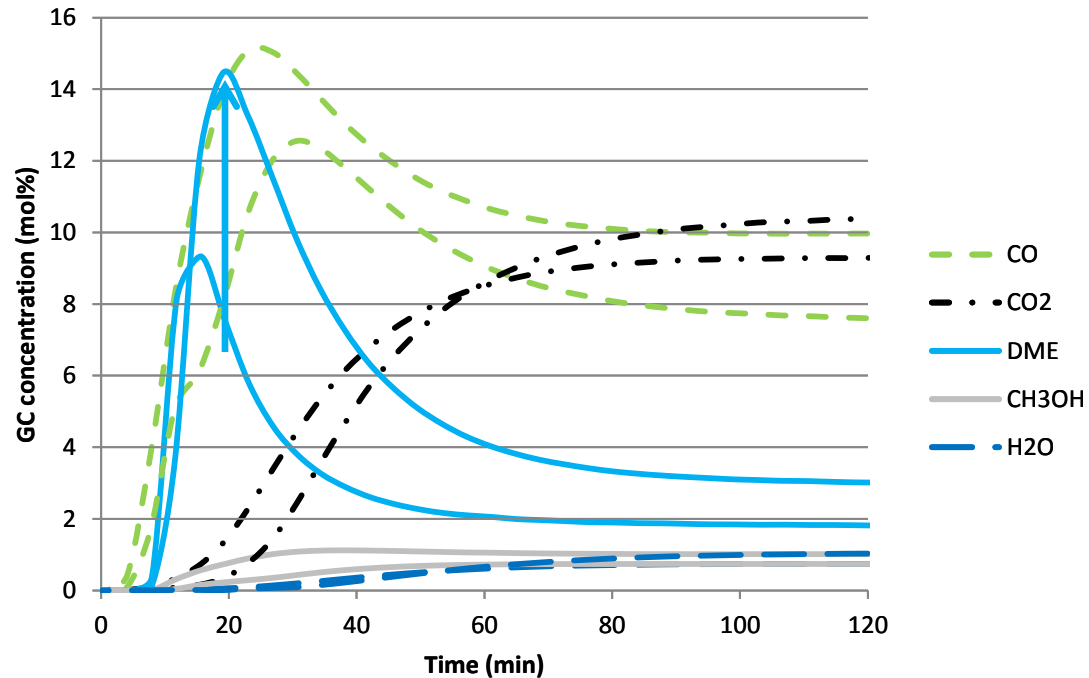
- Catalyst & sorbent regeneration at **300 °C**



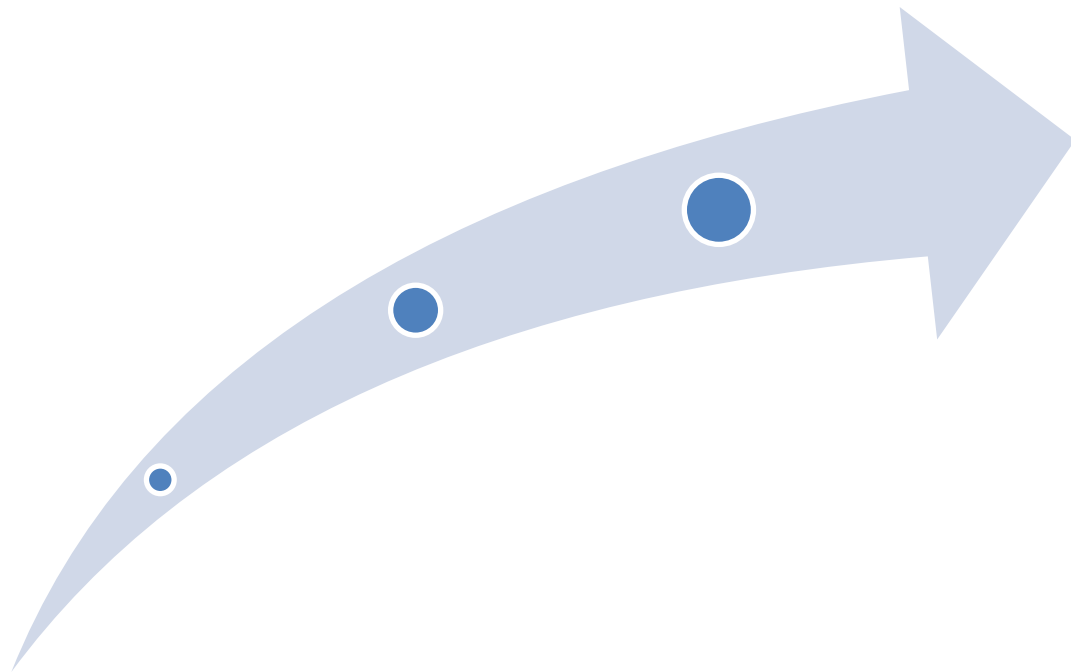


# Regeneration

- Catalyst & sorbent regeneration at **400 °C**



# Outlook



# Outlook

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Catalyst &  
adsorbent



# Outlook



● Catalyst & adsorbent

● Small scale reactor



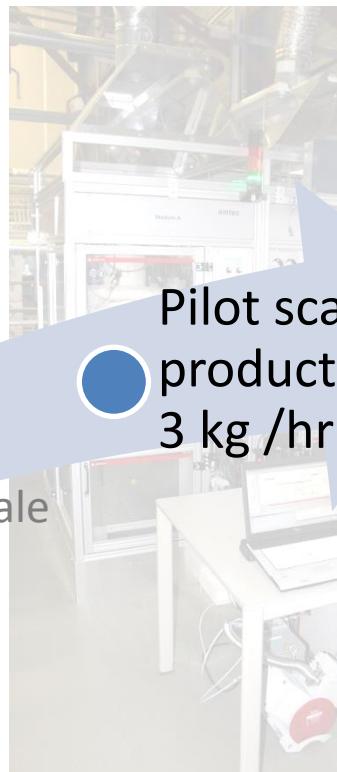
# Outlook



Catalyst &  
adsorbent

Small scale  
reactor

Pilot scale  
production:  
3 kg /hr





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