

**SCoRe A<sup>+</sup>**  
Strategic Core Research Area

# Schlüsselelement Wasserstoff – Der Beitrag der **Methanpyrolyse** zur nachhaltigen Transformation

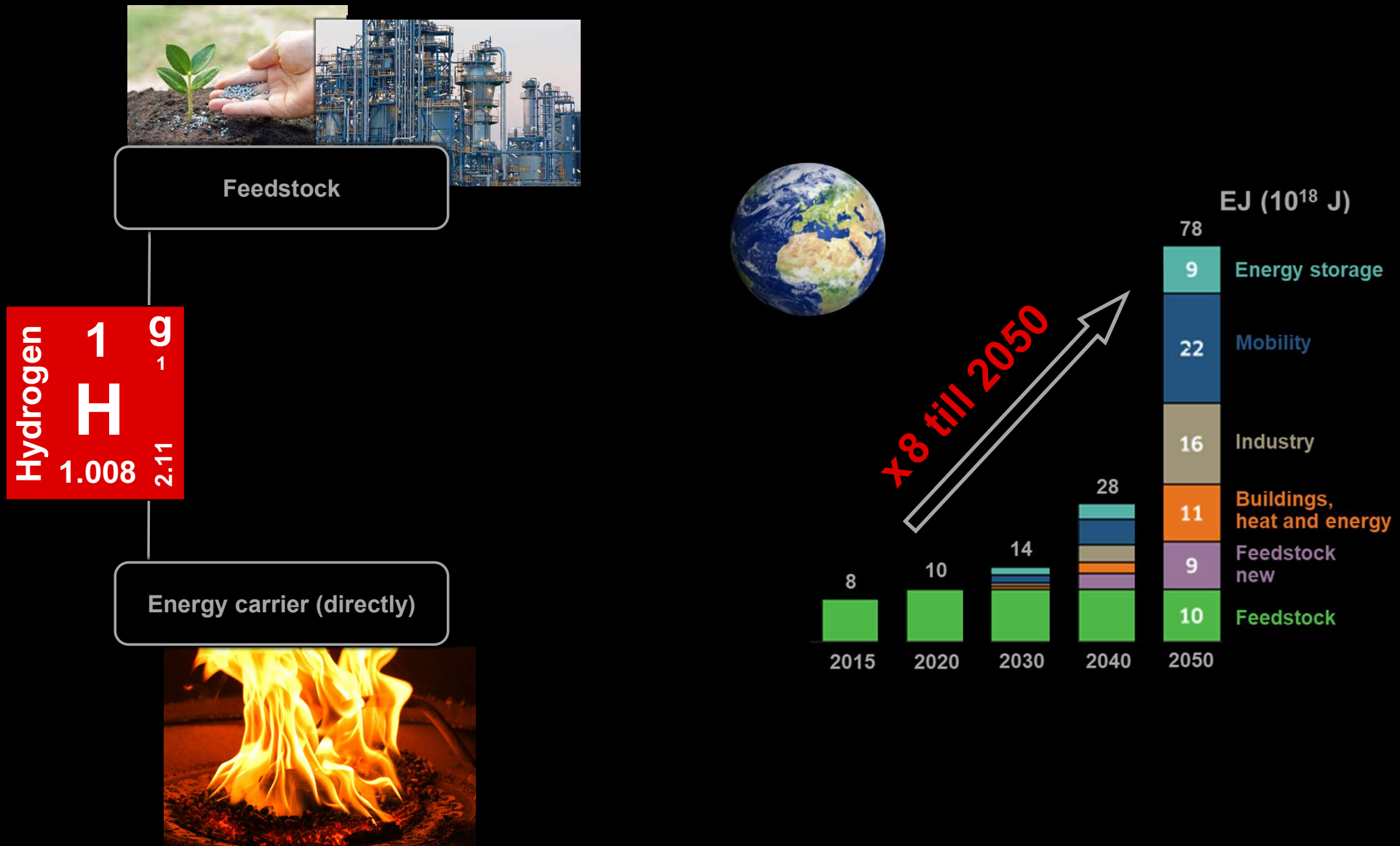
Robert OBENAUŠ–EMLER

Head of Resources Innovation Center  
Coordinator of SCoRe A<sup>+</sup> Hydrogen and Carbon



WHERE RESEARCH MEETS FUTURE

SCoReA+ Hydrogen and Carbon – Overview



# SCoReA+ Hydrogen and Carbon – Overview



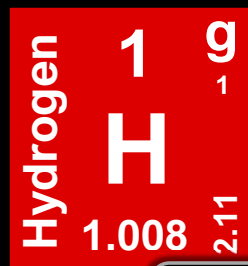
oil and gas



water

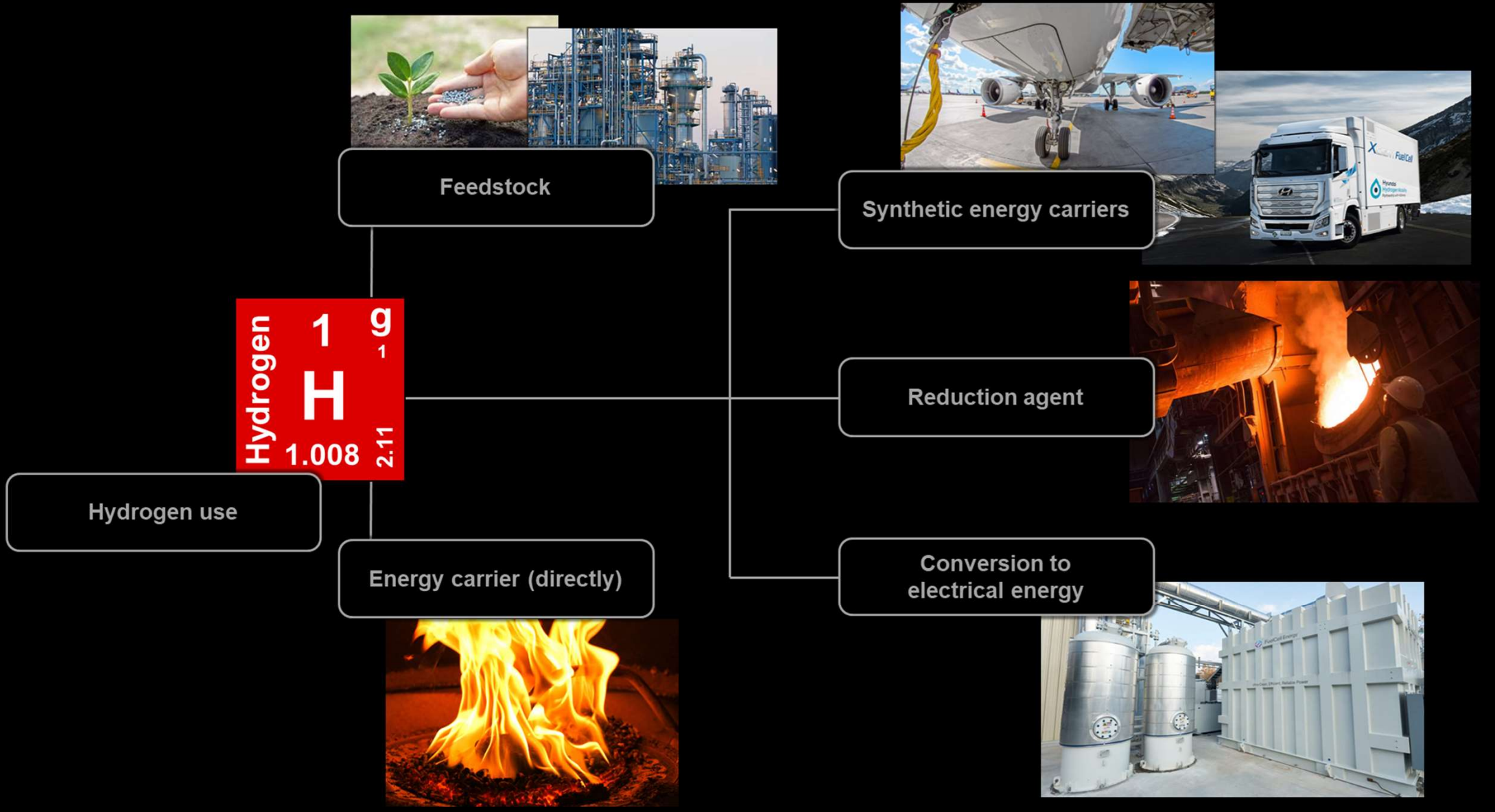


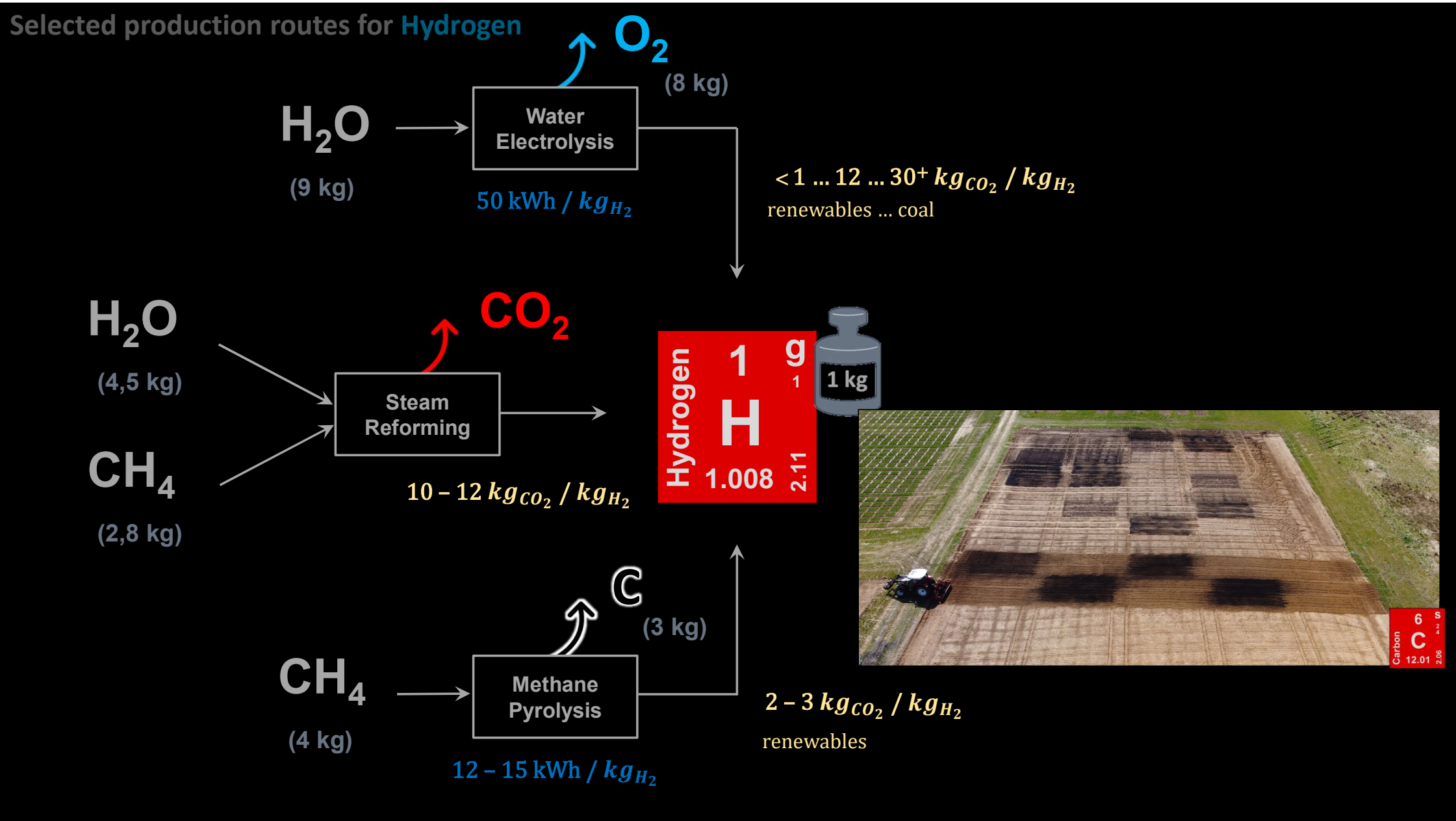
biomass



Hydrogen production

SCoReA+ Hydrogen and Carbon – Overview





# SCoRe A+

Strategic Core Research Area

## FACTS & FIGURES

Info & News



Research along the entire value chain



4 Research Focus Areas

Research from 0K to 1500°C and beyond

Cooperation with significant industry partners from Austria and beyond

750 m<sup>2</sup> of a new Research Infrastructure



26 Chairs



Over 120 Researchers



22 M€ Investments

400m<sup>2</sup> field experiment running since 2022 (Carbon in Agriculture)



Regular Collaborative Events

20 PhD Projects funded by Montanuniversität Leoben currently in progress

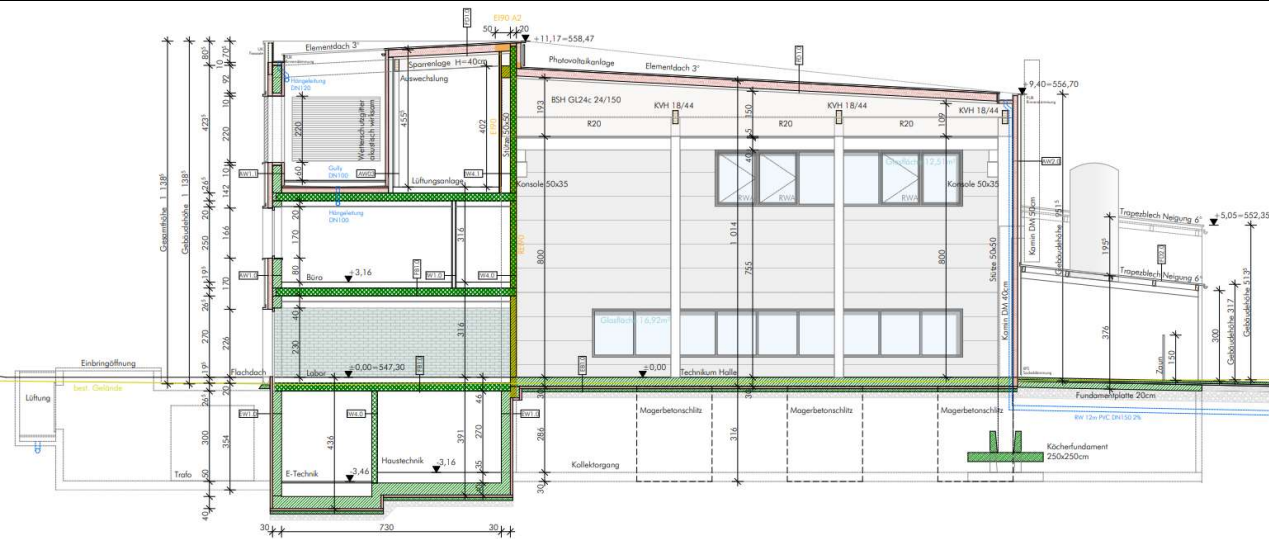


SCoRe A+ Hydrogen and Carbon  
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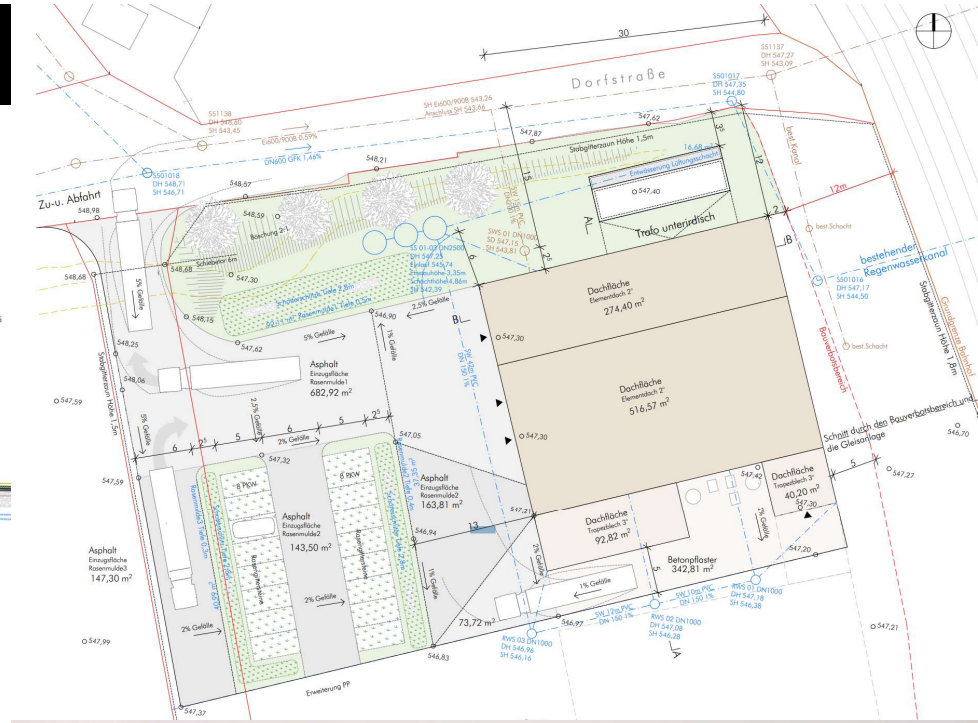
[unileoben.ac.at/research-h2-c](http://unileoben.ac.at/research-h2-c)



SCoReA+ Hydrogen and Carbon – H<sub>2</sub>-C Research Center



Schnitt A-A M 1:100



Ansicht Westen M 1:100



SCoReA+ Hydrogen and Carbon – H<sub>2</sub>-C Research Center



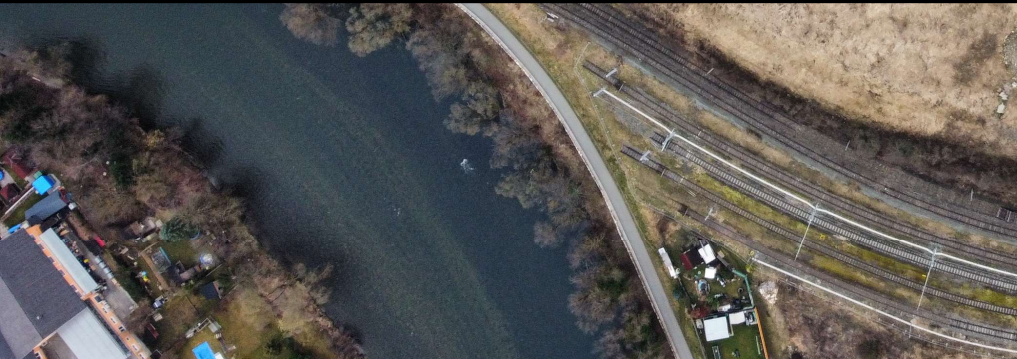
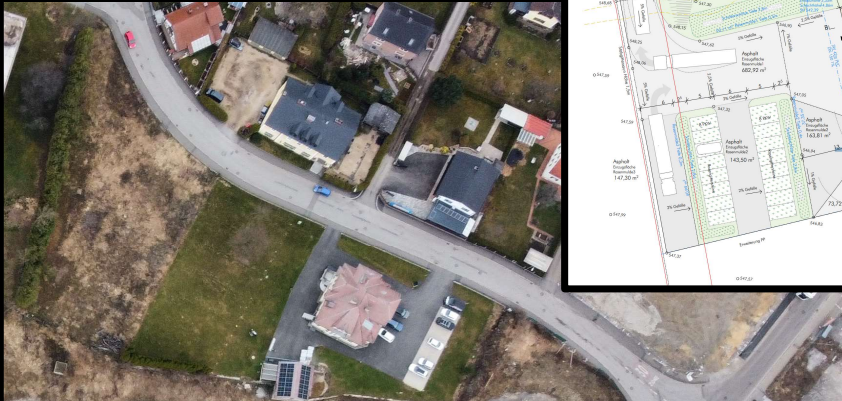
<b>FACTS &amp; FIGURES</b> Research Infrastructure		750 m <sup>2</sup> of a new Research Infrastructure	
2kg H <sub>2</sub> /h	Methane Pyrolysis <chem>CH4 -&gt; C + 2H2</chem>	In close proximity of Leoben city centre	
Research 24/7	8 Chairs	Gas Treatment	
Biomass Pyrolysis	Hot Product Gas Cleaning	Carbon Processing	
15 M€ Investments	Hydrogen-fit Combustion Chamber		
<b>SCoRe A+</b> Strategic Core Research Area Hydrogen and Carbon		<a href="http://unileoben.ac.at/research-h2-c">unileoben.ac.at/research-h2-c</a>	



December 2023



SCoReA+ Hydrogen and Carbon – H<sub>2</sub>-C Research Center



March 2023

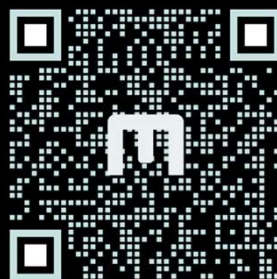
Overview – 03/2024

# SCoRe A<sup>+</sup>

Strategic Core Research Area

# Hydrogen and Carbon

Explanatory video



Montanuniversität Leoben – RIC Leoben

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