OST
Ostschweizer
Fachhochschule

Forschungsanlage HEPP

3. Forschungstag der Schweizer Gaswirtschaft

2. September 2021

Prof. Dr. Markus Friedl

IET Institut für Energietechnik

Power-to-X @ OST

siehe Bericht "Power-to-X Aktivitäten 2016 – 2020"

Prof. Dr. Markus Friedl

Prof. Dr. Andre Heel

Prof. Dr. Elimar Frank

Dr. Bastian Welte

Boris Meier

Luca Schmidlin

Justin Lydement

Christoph Steiner

Matthias Frommelt

Robin Leonhard

Salvatore Oricchio

Fabian Ruoss

Silvan Schmid

Zoe Stadler

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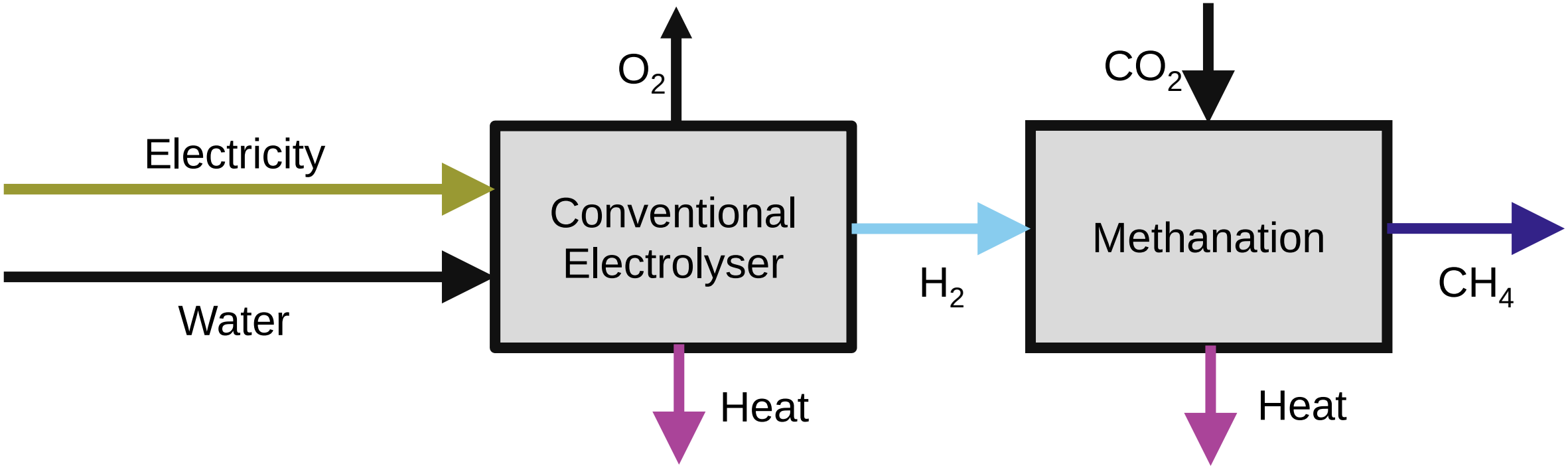
High Efficiency Power-to-Methane Pilot (HEPP)



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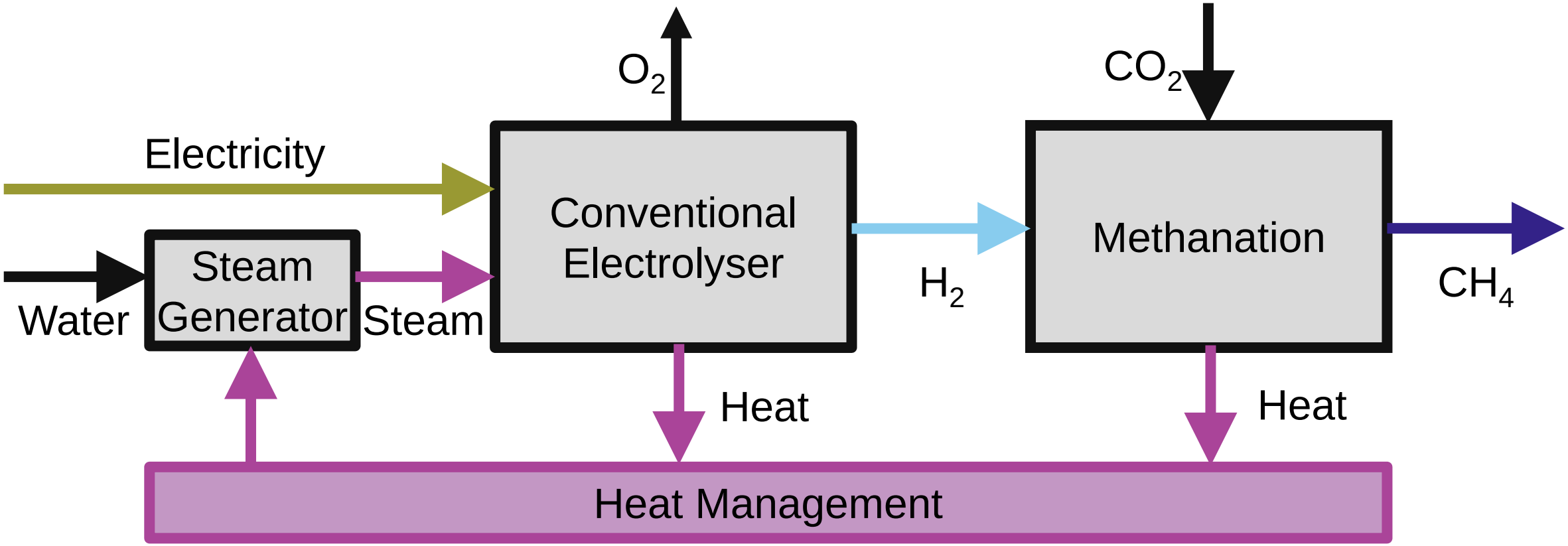
High Efficiency Power-to-Methane Pilot (HEPP)



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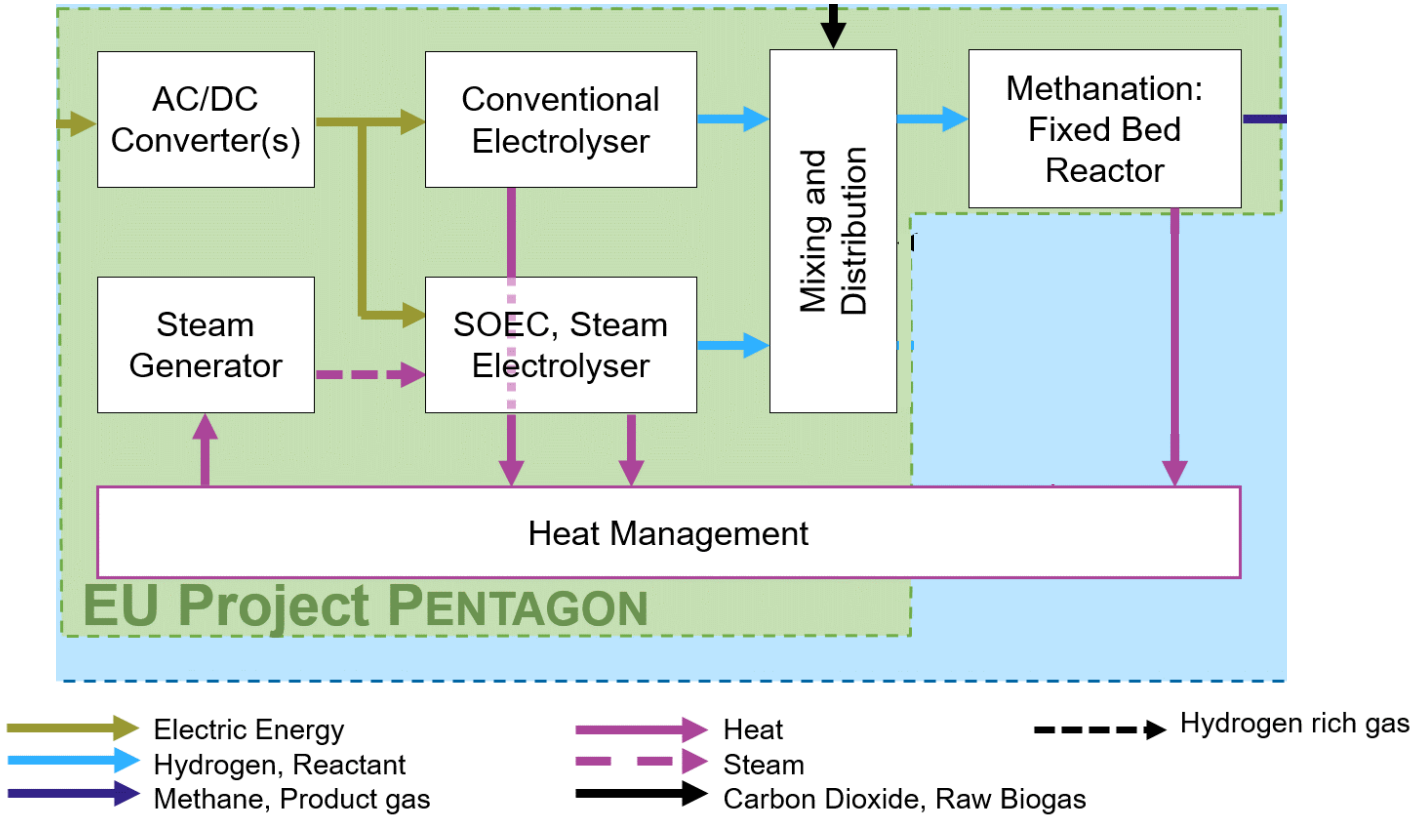


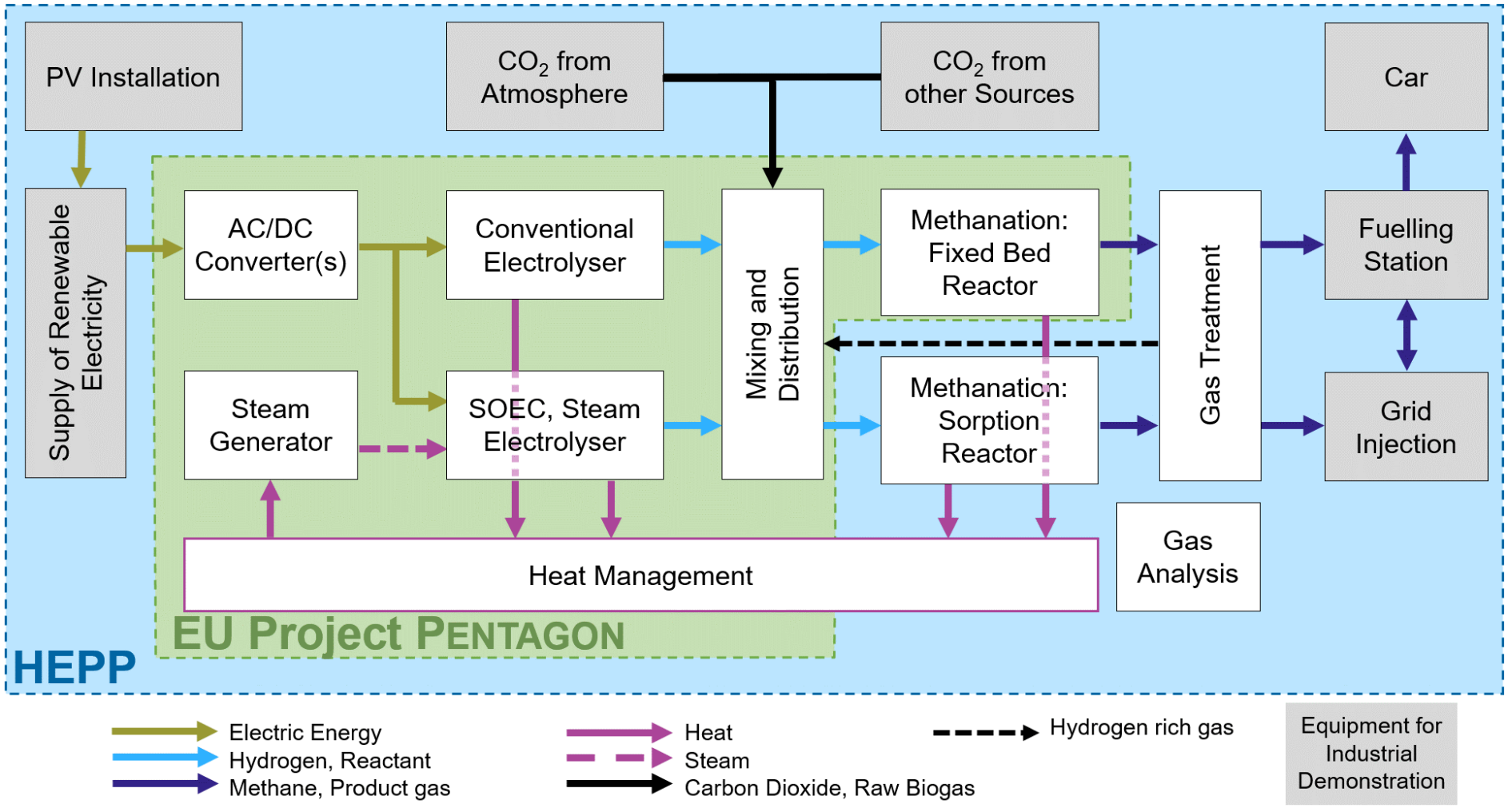
High efficiency:

- SOEC & methanation

New technologies to improve system

- Membrane technology
- Gas composition measurement
- Two new methanation technologies

High Efficiency Power-to-Methane Pilot (HEPP)



High efficiency:

- SOEC & methanation

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Demonstration

- PV
- CO_2 capture
- Fuelling station
- Car
- Closed carbon cycle

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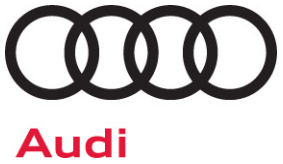
Einweihung 4. Oktober 2019

Partnerschaften im Projekt HEPP

This project is co-funded by
the European Union



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Bundesamt für Umwelt BAFU

Innosuisse – Schweizerische Agentur für Innovationsförderung

Bundesamt für Energie BFE

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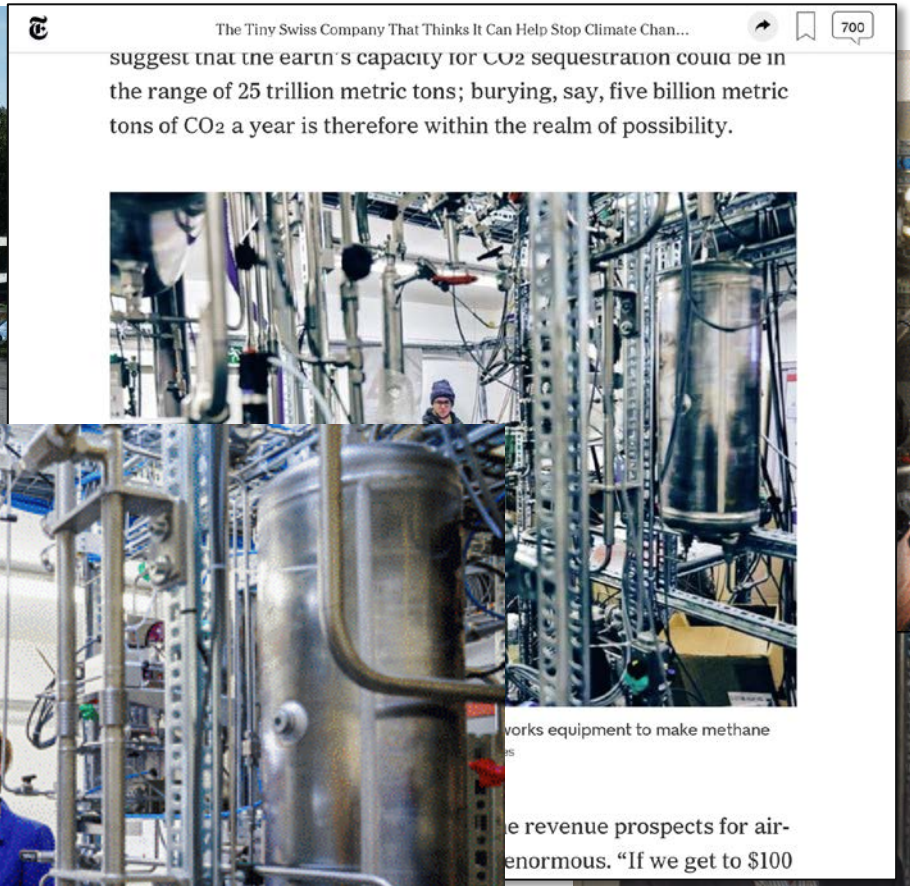
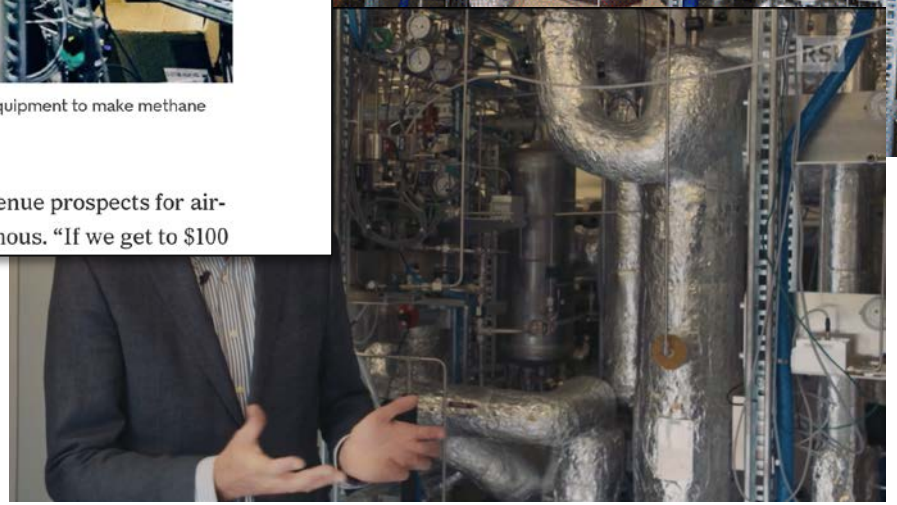
Forschungsanlage und Kristallisationspunkt





Source: kurzschuss photography gmbh / Damian Imhof

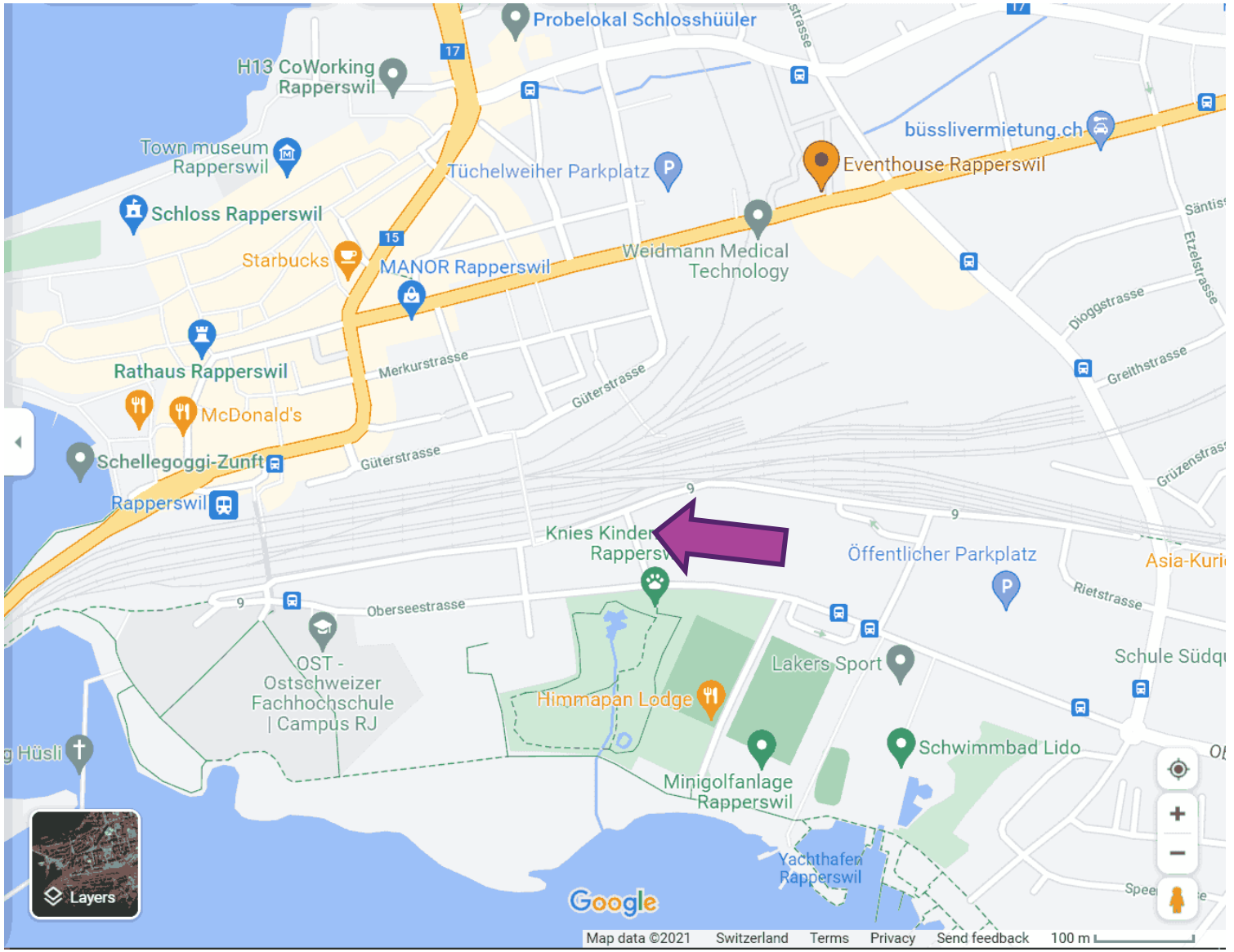
Ausblick

Abschluss der Arbeiten am Projekt HEPP bis im Herbst

Neue Projekte:

- Low Cost Hydrogen Refuelling Station (LC HRS)
  - Burckhardt Compression
  - Endress + Hauser
  - Swagelok Schweiz
  - Innosuisse
- GaSEM

Besichtigung

- Jetzt an der Gaswerkstrasse 1, Rapperswil

- Anmeldung für spätere Besuche unter besuch-ptx@ost.ch