



ULiège Chemical Engineering

- **ULiège**
 - Academia and research in French-speaking Belgium
 - ~ 24 000 students;
 - ~ 3000 researchers (incl. 2000 PhD students)
- **Department of Chemical Engineering**
 - ~ 60 people
 - Material Science + Process engineering
 - Experimental work + Simulation
- **FRITCO₂T Platform**
 - *Federation of Researchers in Innovative Technologies for CO₂ Transformation*
 - Created 2016
 - 4 labs across 3 faculties

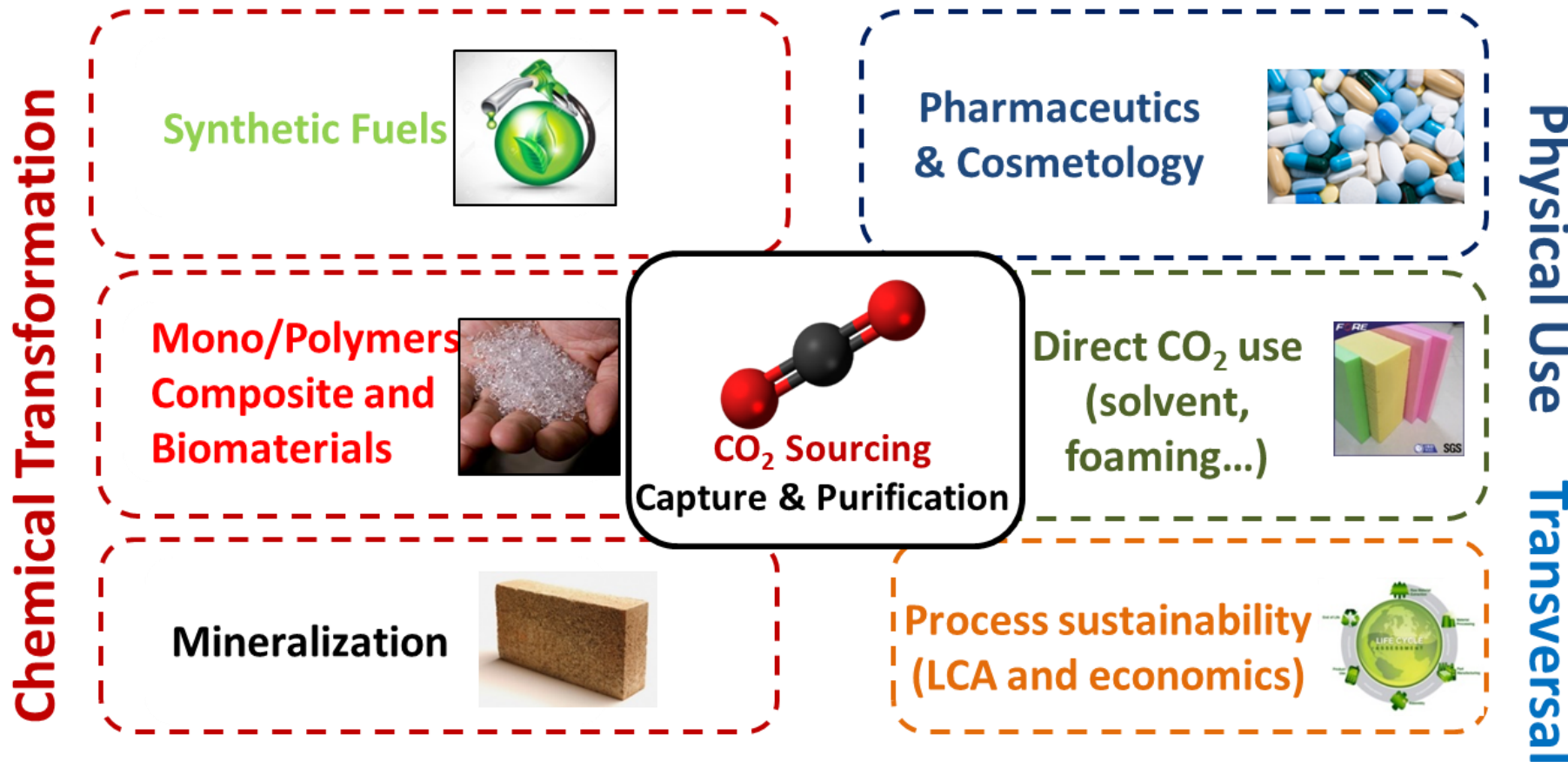


• • • • **CHEMICAL**
• • • • **ENGINEERING**





ULiège FRITCO₂T Platform



www.chemeng.uliege.be/FRITCO2T



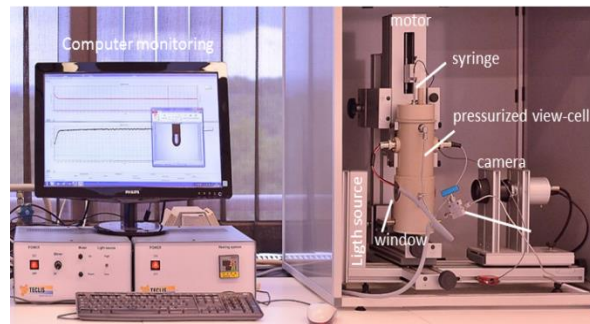
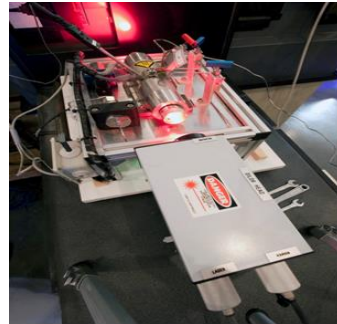
ULiège FRITCO₂T Platform

- More than 45 research projects, 15 on-going
- About 12 M€ funding achieved, > 3 M€ unique equipment
- > 200 publications, patents, communications...
- ~ 20-25 full-time researchers

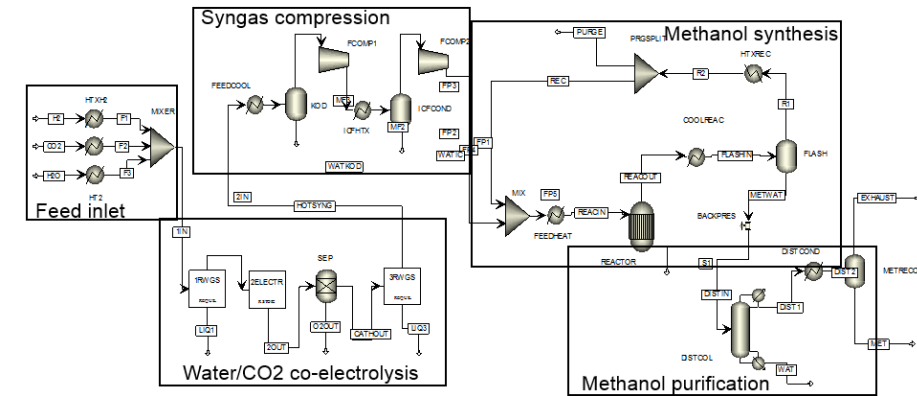
From lab to pilot scale



High performance analytical tools



Process modelling



CO₂-assisted processes

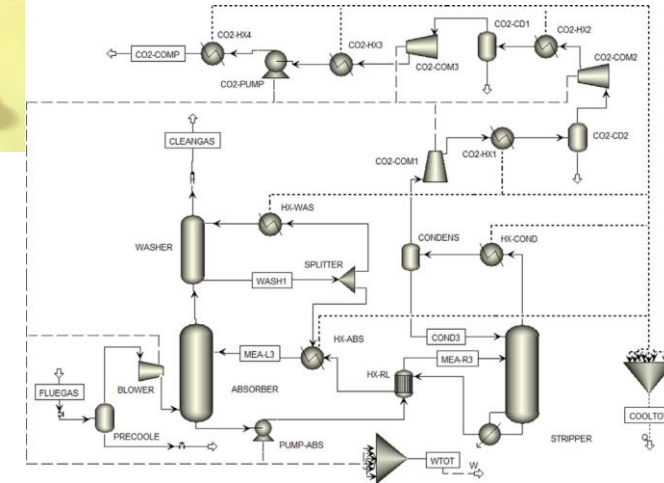




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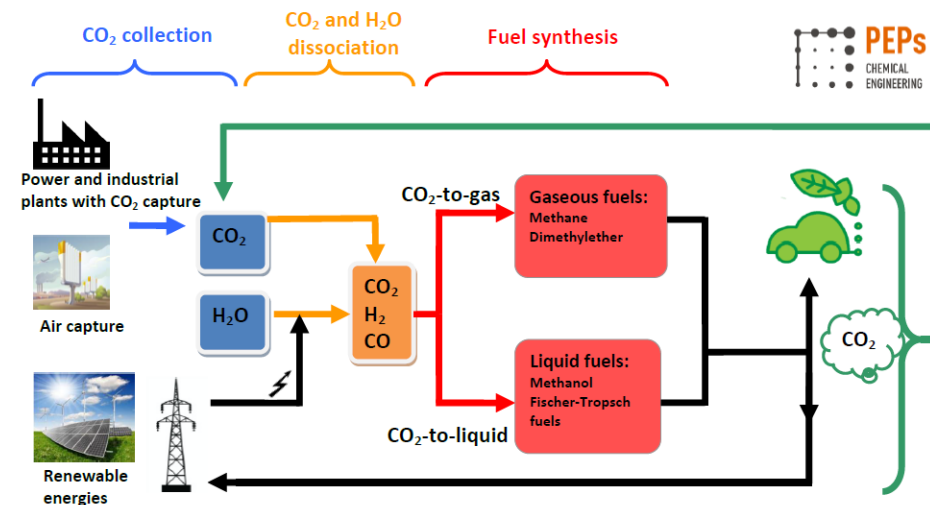
Ongoing projects

- Experimental work
 - **Stability of amine solvents** for CO₂ capture
 - **Stability of solid sorbents** for **Direct Air Capture**
- Process modelling
 - **Optimization of CO₂ capture** with amine solvents
 - **Power-to-fuel process** (techno & system views)



Future project or ideas

- **Dynamic study** of power-to-methanol process
- **Optimal design** of **scalable power-to-fuel units**





ULiège – FRITCO₂T Platform

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