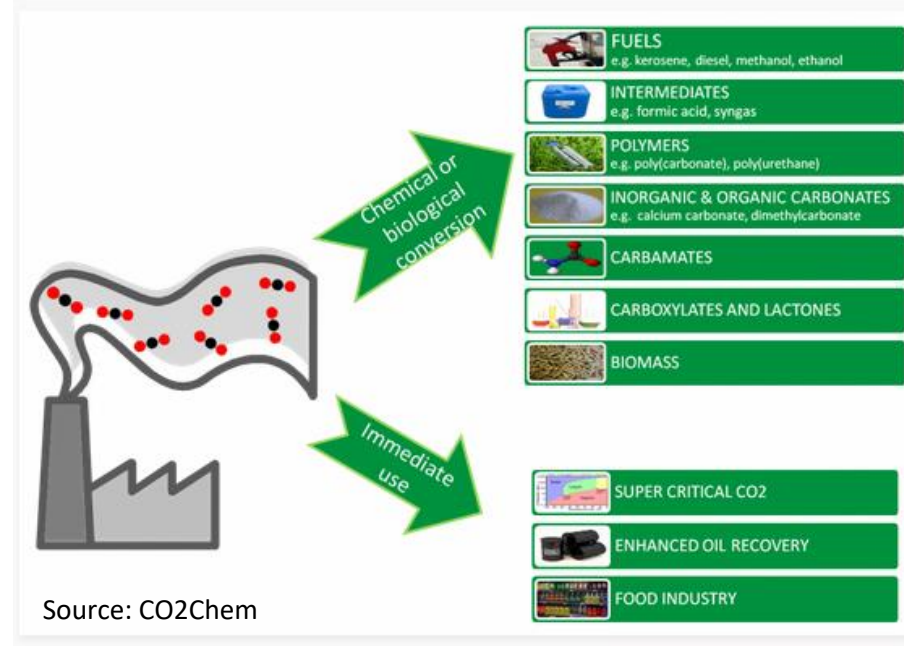


What to do with CO₂?

- Huge amounts available!
 - EU goals: - 80% CO₂ by 2050
 - Potential for reuse ~ 4 Gt/y
- 2 ways to replace petrochemical C
=> Biomass and **CO₂**
- Green alternatives to conventional products + new products



The FRITCO₂T Platform

Chemical Transformation

Synthetic Fuels



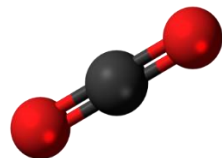
Pharmaceuticals
& Cosmetology



Mono/Polymers
Composite and
Biomaterials



CO₂ Sourcing
Capture & Purification



Direct CO₂ use
(solvent,
foaming...)



Mineralization



Process
sustainability
(LCA and economics)



Physical Use
Transversal



Success stories

- 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

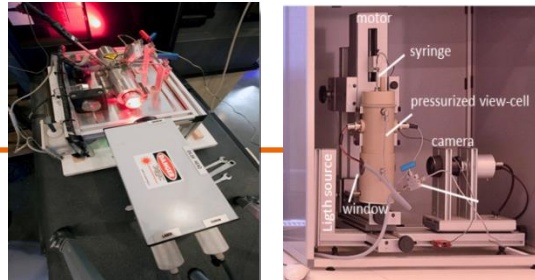
From lab to pilot scale



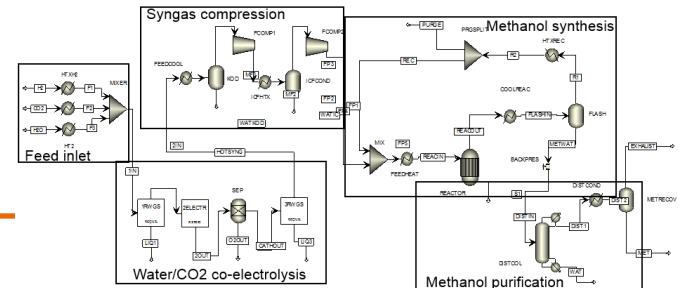
CO₂-assisted processes



High performance analytical tools



Process modelling



Missions of the FRITCO₂T Platform

- Market needs, fundamental pushes
 - Give rationals and scientific backgrounds to new ideas
 - **Accelerate climbing of the TRL scale**
- Lead large-scale research projects
 - From Regional to European projects
- Support technological developments
 - Support for operational issues
 - Holistic view: Circular economy and life cycle thinking

