



LIQUID RENEWABLE ENERGY CARRIERS FROM
CAPTURED CARBON EMISSIONS

GENERAL PRESENTATION

FOR COMMUNICATION AND DISSEMINATION PURPOSES



Funded by
the European Union

ABOUT CAPTUS

Starting in June 2023 for a **4-year period**, **CAPTUS** is a 10M€ innovation action project funded by the European Union's research and innovation program Horizon Europe.

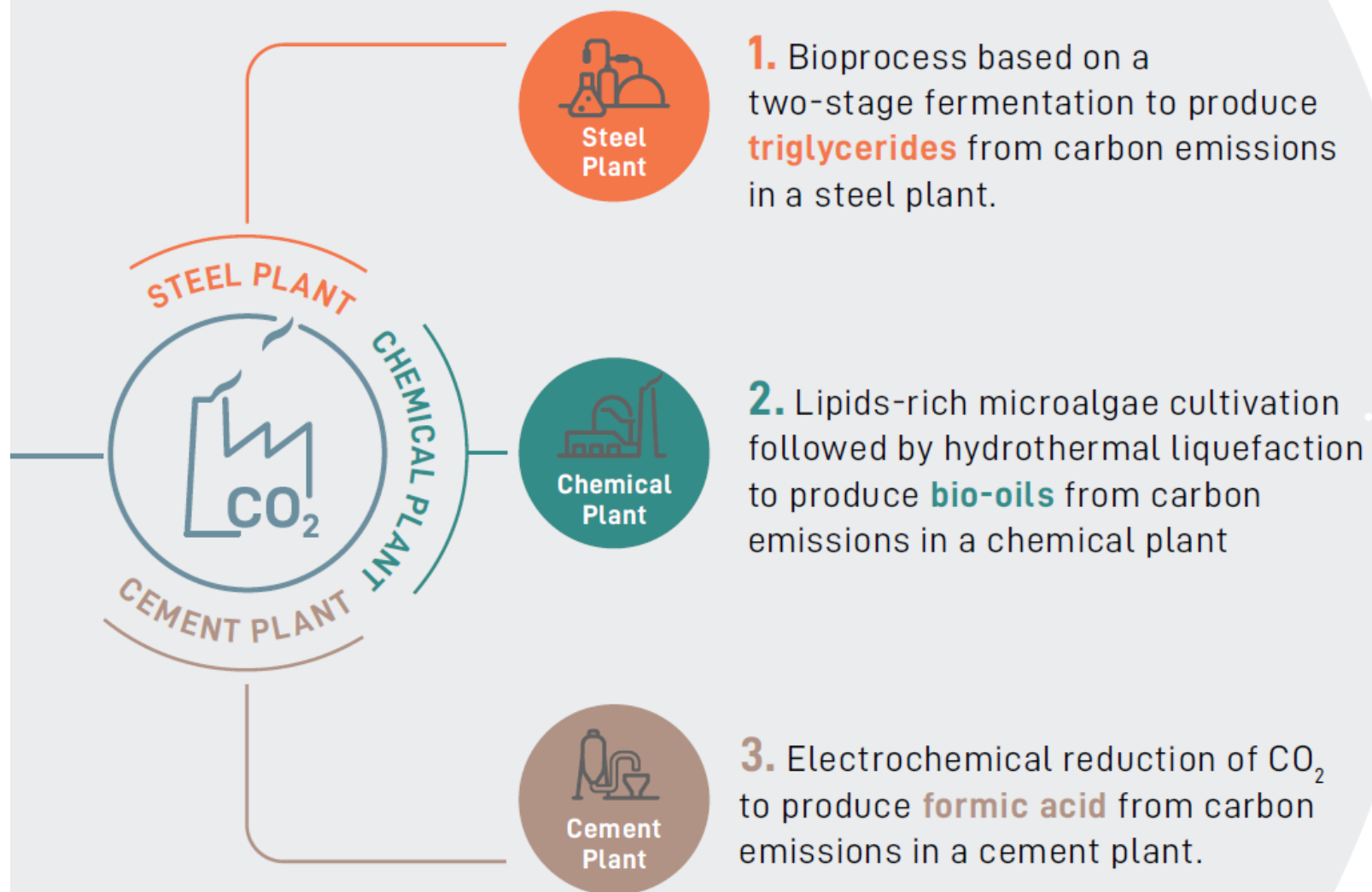
Assembling a consortium of **18 partners** from **8 countries**, and combining multidisciplinary competencies and resources from academia, research, engineering, industries and universities, CAPTUS aims to demonstrate sustainable and cost-effective pathways to produce **renewable energy carriers** (RECs) in **energy intensive industries** (EIs) by **valorizing industrial carbon emissions** and **integrating renewable energy sources**.



CAPTUS

will demonstrate
3 cost-effective
pathways at 3 demo
sites and will perform
REC upgrading
studies and quality
assessment





CAPTUS will directly impact in the **clean energy transition** of EIs towards a net-zero carbon industry, aiming at achieving this objective by 2030.

OBJECTIVES BEYOND TECHNOLOGY VALIDATION

- Guidelines and recommendations.
- EU roadmaps for deployment of carbon capture and utilization (CCU) technologies.
- Business models and replication potential
- Integrated life cycle assessment of the whole REC value chains
- Advanced energy management system to integrate renewable energy surplus in EIs.
- Thermo-economics models for
- carbon capture and utilization technologies.

THANK YOU
FOR YOUR
ATTENTION.



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captus@fcirce.es



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