

PHOENIX –

A European integrated approach to CO₂ valorisation

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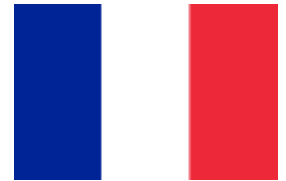
The PHOENIX Initiative

founded: June 2017

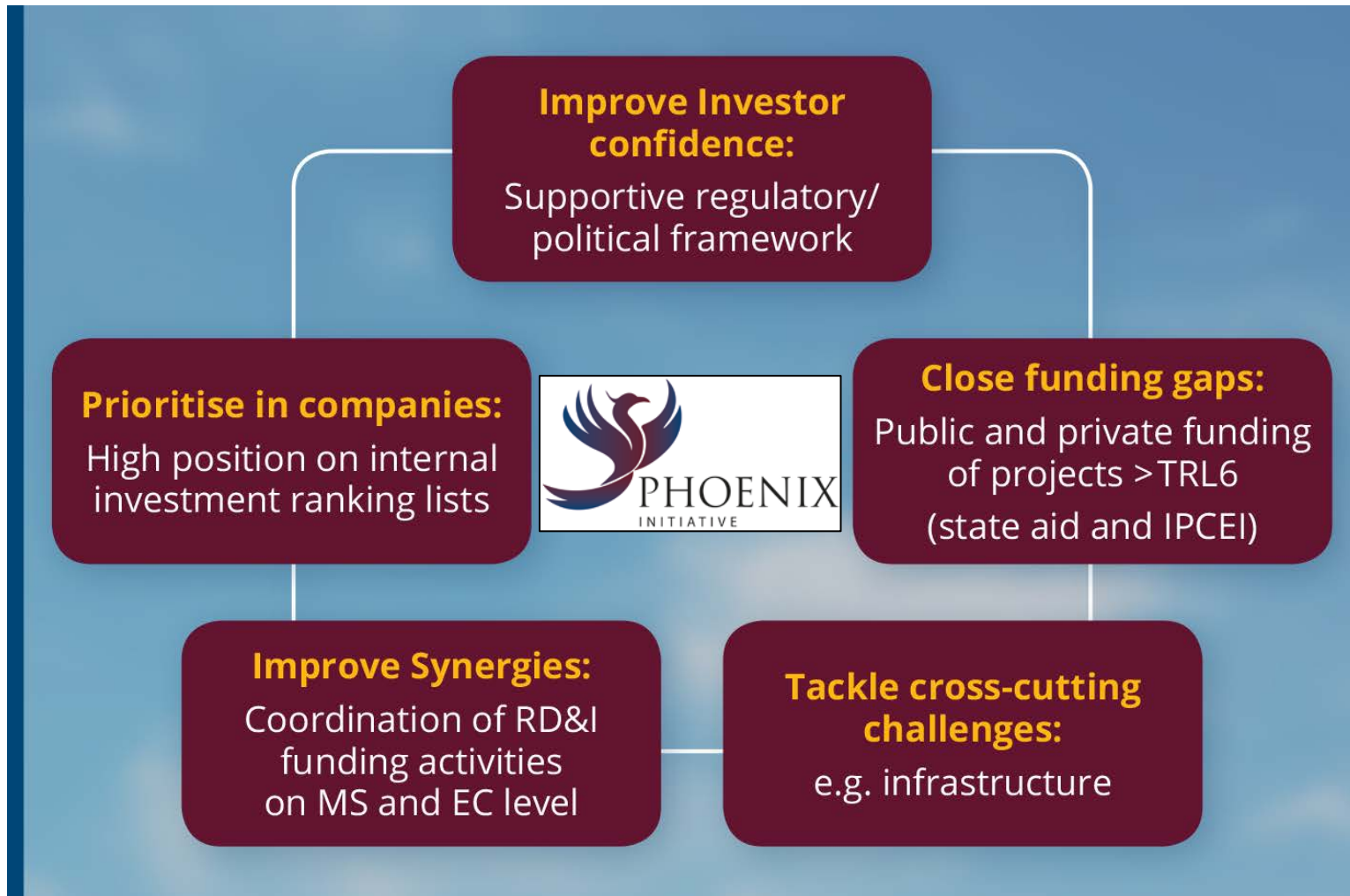
Partner: Core group from France, Germany, The Netherlands, Flanders (since 2019), in close collaboration with Cefic

Objectives:

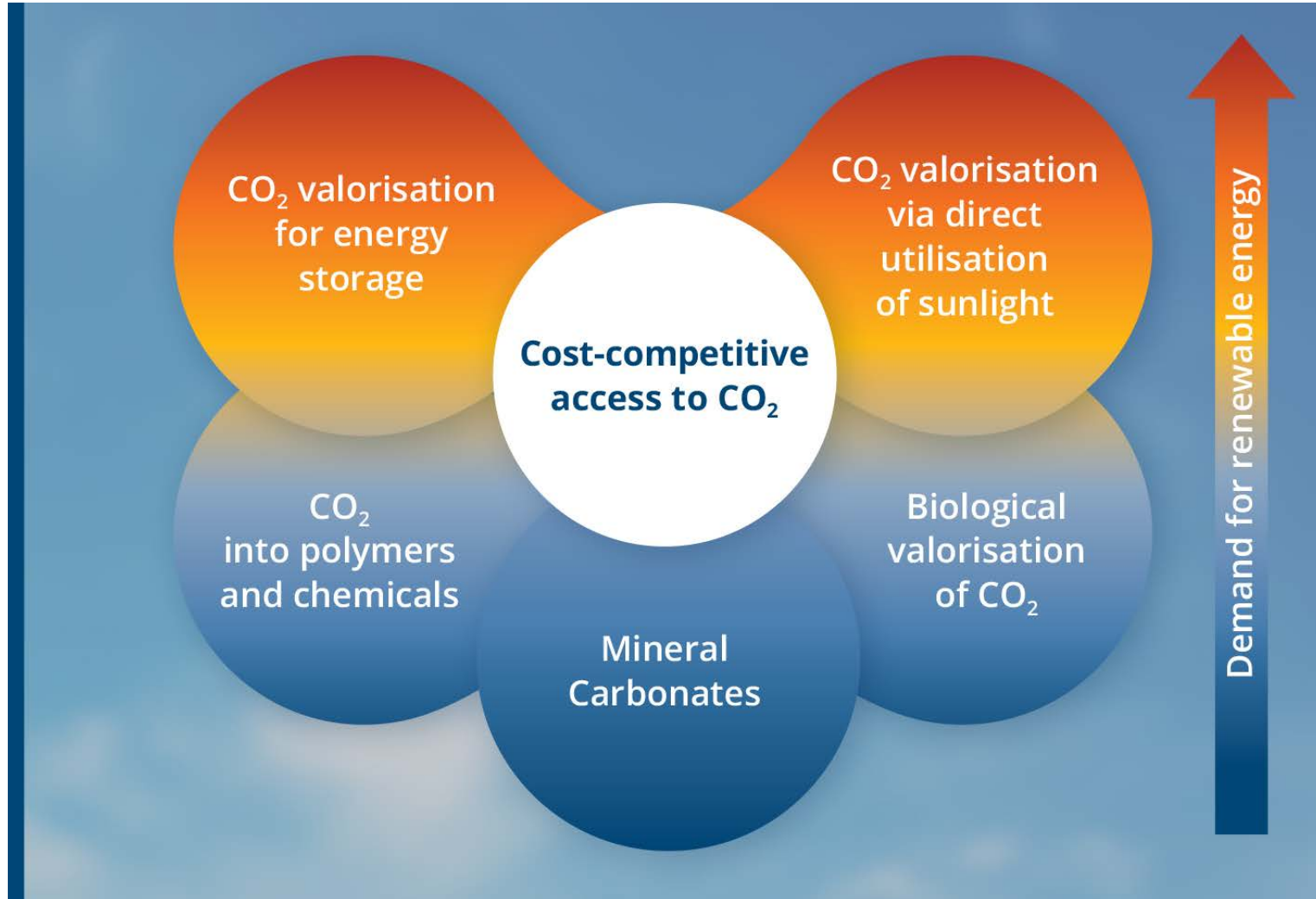
- European integrated approach to ensure that CO₂ valorisation technology developments can be transformed into real benefits for Europe
- Support fast implementation of promising CO₂ valorisation technologies on European level
- Optimise public and private partnership by involving and connecting **all** relevant stakeholders



Objectives

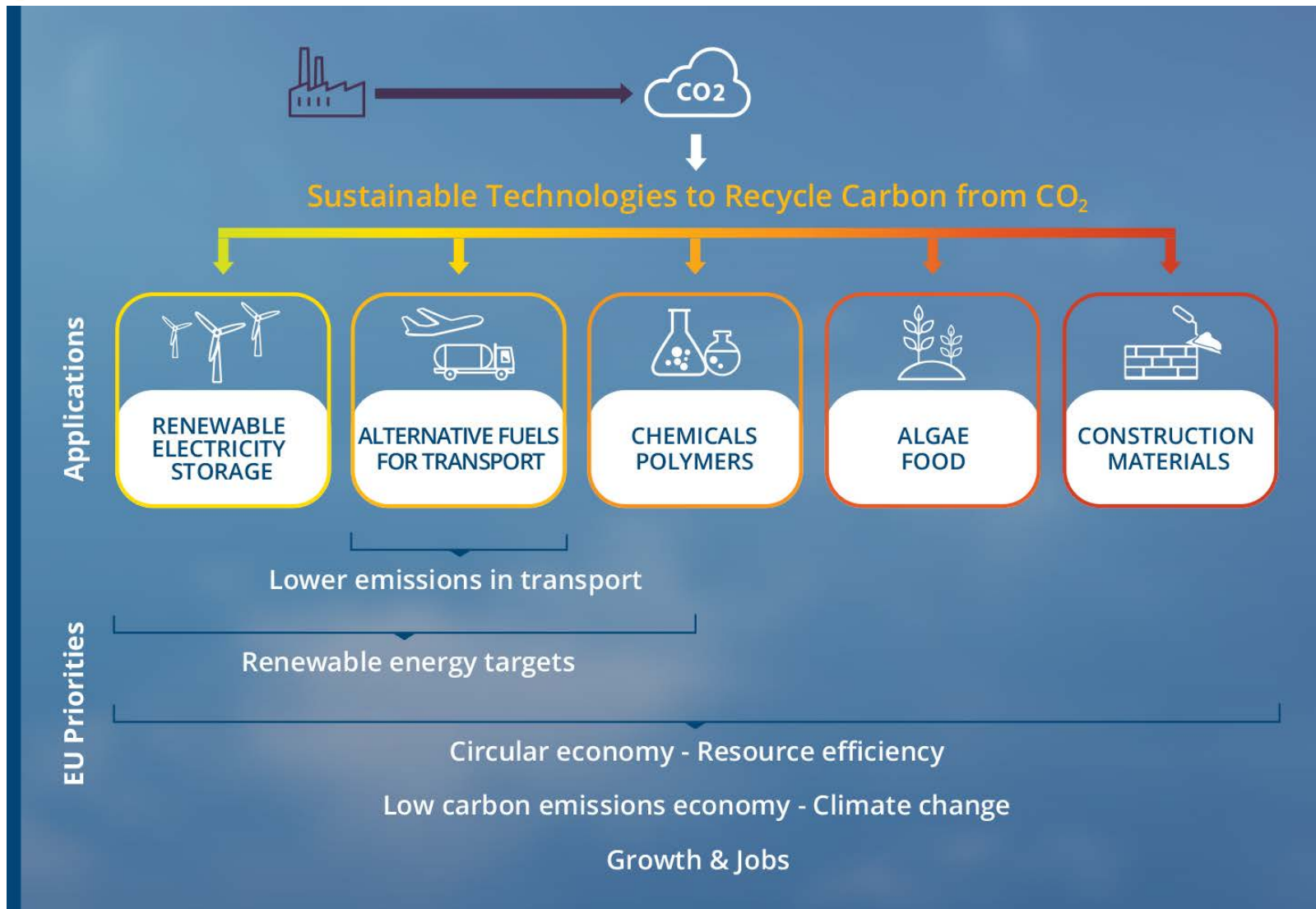


Technology Fields





European priorities





Timeline

Phase 1, Exploration

- National declarations of intent
- Selecting instruments for formal collaboration
- Interaction with stakeholders

Phase 2, Preparation

- Definition of formal collaboration
- Interaction with stakeholders
- Preparation of the implementation in national schemes

Phase 3, Implementation

- Implementation of PHOENIX in national schemes
- Enhanced CO₂ valorisation through PHOENIX

Public Launch

Public Launch: EU Industry Day, 22 February 2018, Brussels



Main focus:

- Public information and networking
- Launch of Webpage: <http://www.phoenix-co2-valorisation.eu/>
- Welcome interested Member States to join the initiative

International Workshop

Frankfurt, 22 March 2018: ~55 participants from 8 countries

Main Focus:

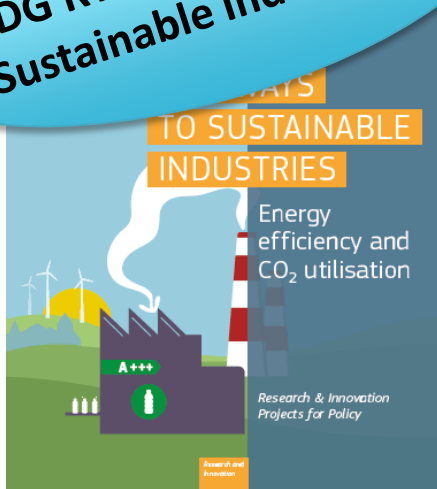
- Networking and Overview over activities (countries and industry)
- Feedback *on* and *for* the PHOENIX-Initiative

Workshop (round tables)

- Identification of existing projects and funding demands for higher TRL/demonstration level projects in the technological areas
- → *helps PHOENIX to identify funding needs*

Impact assessment – European level

DG RTD - P4P report
Sustainable Industries



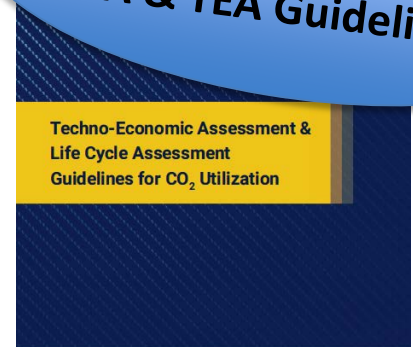
DG RTD - CarbonNext
LCA Methodology for CCU



DG CLIMA – CCU study
for ETS IF

Identification and analysis of
promising carbon capture and
utilisation technologies,
including their regulatory
aspects

Global CO₂ Initiative
LCA & TEA Guidelines



DG ENER – LCA4CCU

JRC – Methodology for GHG
emission avoidance for RED II

Harmonisation of LCA Guidelines

Main Focus:

- Support an LCA-based impact evaluation of CO₂ valorisation in RD&I and consideration for regulation on European level
- Harmonisation of various activities ongoing in Europe to ensure comparability

Activities

- Contact with responsible DGs (RTD, GROW, CLIMA)
- Contribution to a dedicated session at the HARMONI workshop with respect to different regulatory aspects

→ *Follow-up workshop planned at the end of the year*

Revision of ETS Monitoring and Reporting Regulation (MRR)

Main Focus:

- Currently only very insufficient coverage of CO₂ valorisation technologies in ETS → *little to no incentive*
- Schäfer Kalk court case shows that there are possibilities for additions

Activities

- Follow up of the HARMONI workshop January 2019
- Additions should be made based on mandatory LCA impact evaluation
- ***Lead by Flanders:*** use current revision round to suggest modifications to the MRR this summer

Ongoing Activities

Formalisation

- Final stages of setting up a Memorandum of Understanding

Enhanced Communication

- Public appearances at conferences
- Establish own workshop series



Specific Actions

- Standardisation as follow up of HARMONI project
- Revision of ETS monitoring and reporting regulation (ETS-MRR)

Support of big scale European project initiatives

- Support topic in IPCEI SF developments
- Work together with European consortia for CO₂ valorisation



Contact and Further Information



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