



Carbon Capture, Utilisation and Storage (CCUS) and Energy Intensive Industries (EIs)

From Energy/Emission Intensive Industries to Low
Carbon Industries

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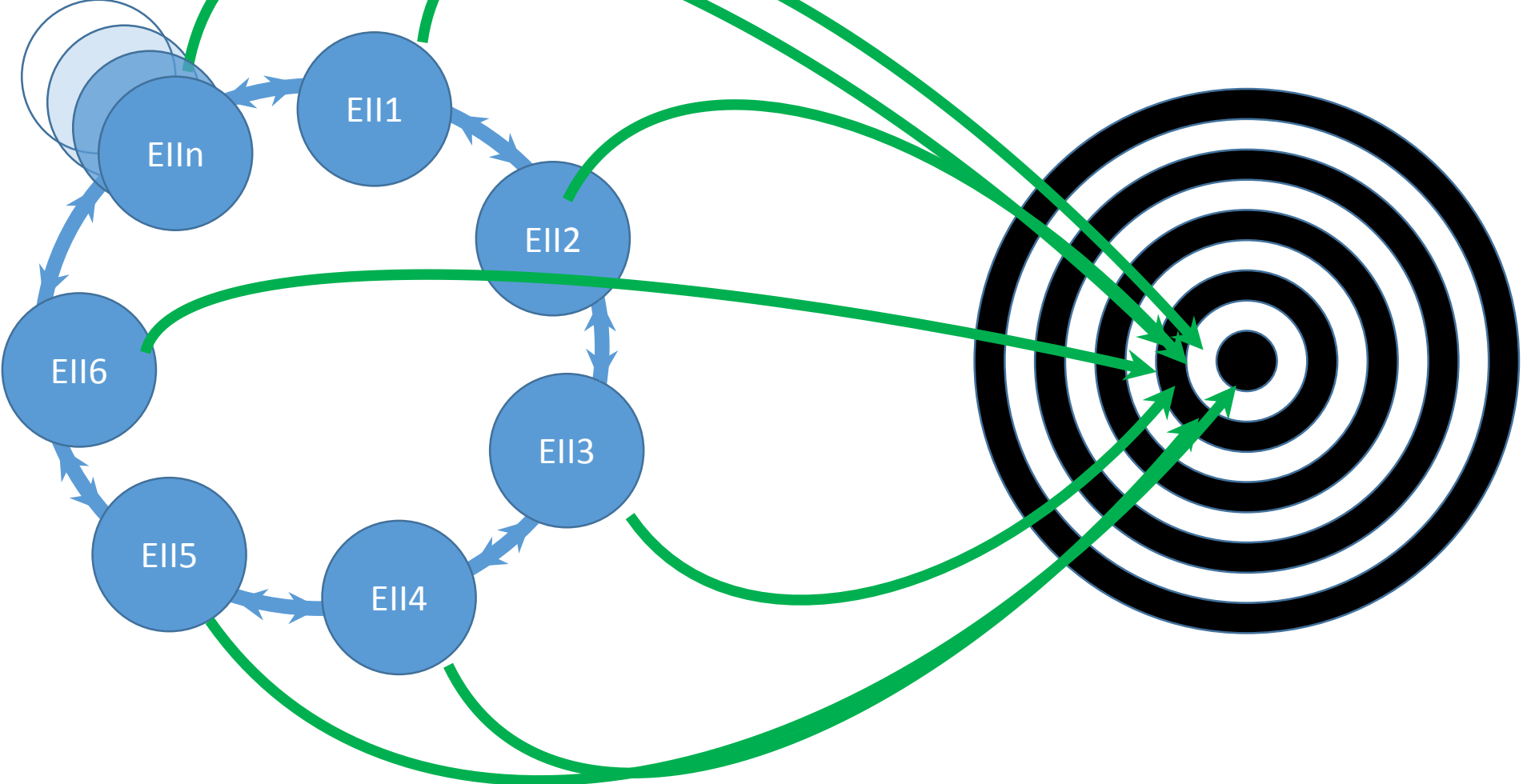
Chatou, France

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Main conclusions

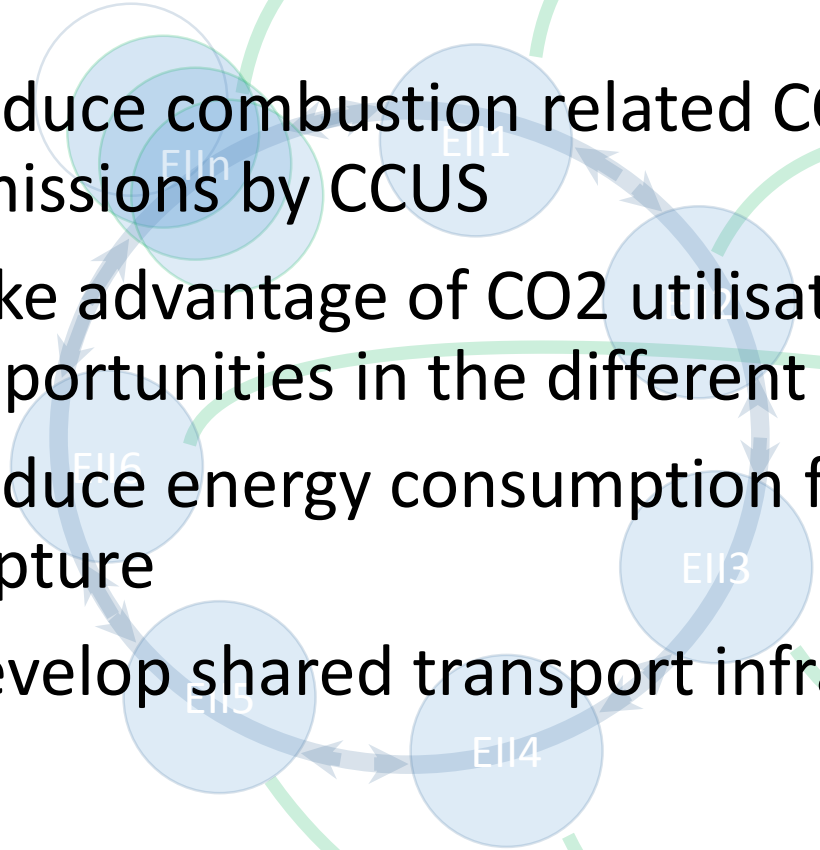
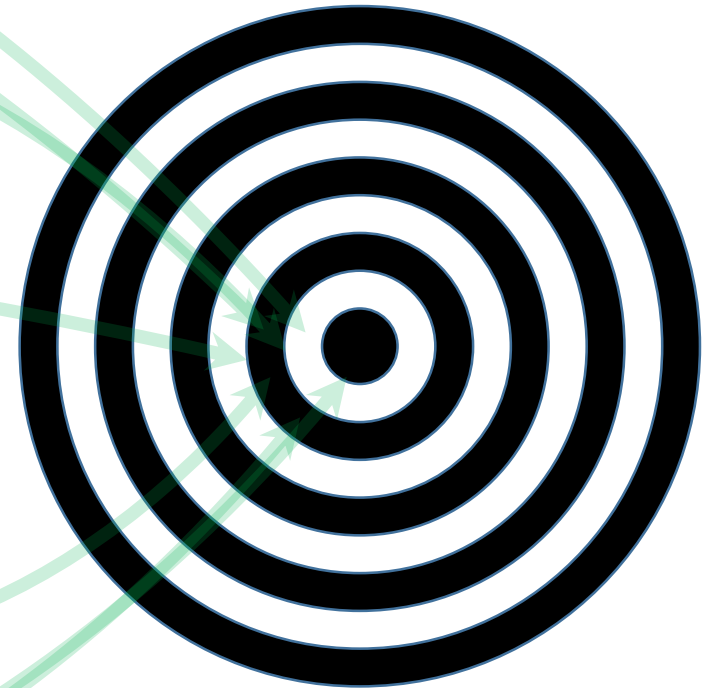
- Non-CCUS and CCUS complement each other.
- Benefits of CCUS >>> Costs of CCUS
- Its development requires strong commitments from different stakeholders.
- CO₂ utilisation can play an important role for business development and for raising the level of acceptability, but it will not be enough.
- R&D must be accelerated in order to decrease costs.

Recommendations RD&D

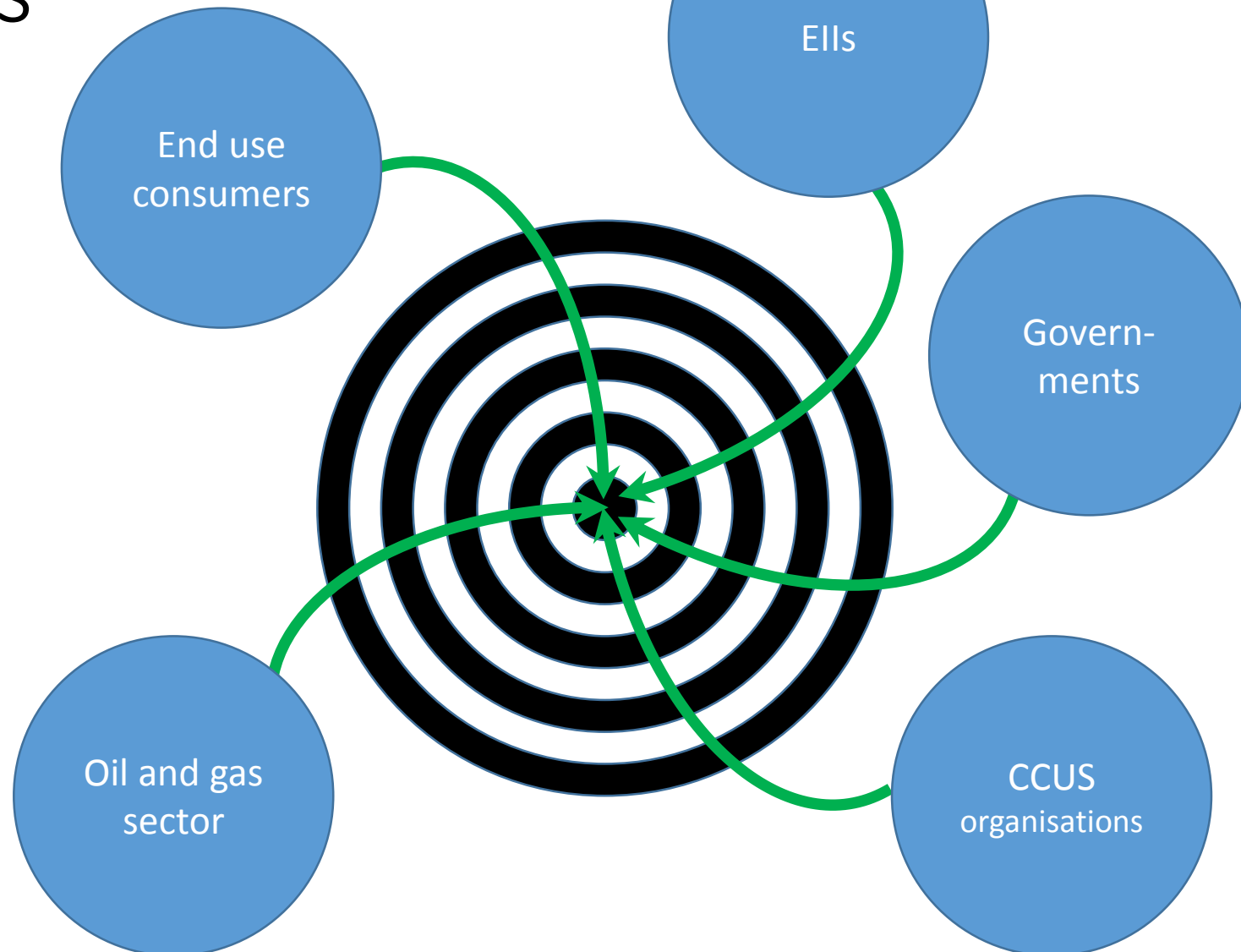


Recommendations: RD&D

- Reduce combustion related CO2 emissions by CCUS
- Take advantage of CO2 utilisations opportunities in the different EIs
- Reduce energy consumption for CO2 capture
- Develop shared transport infrastructure

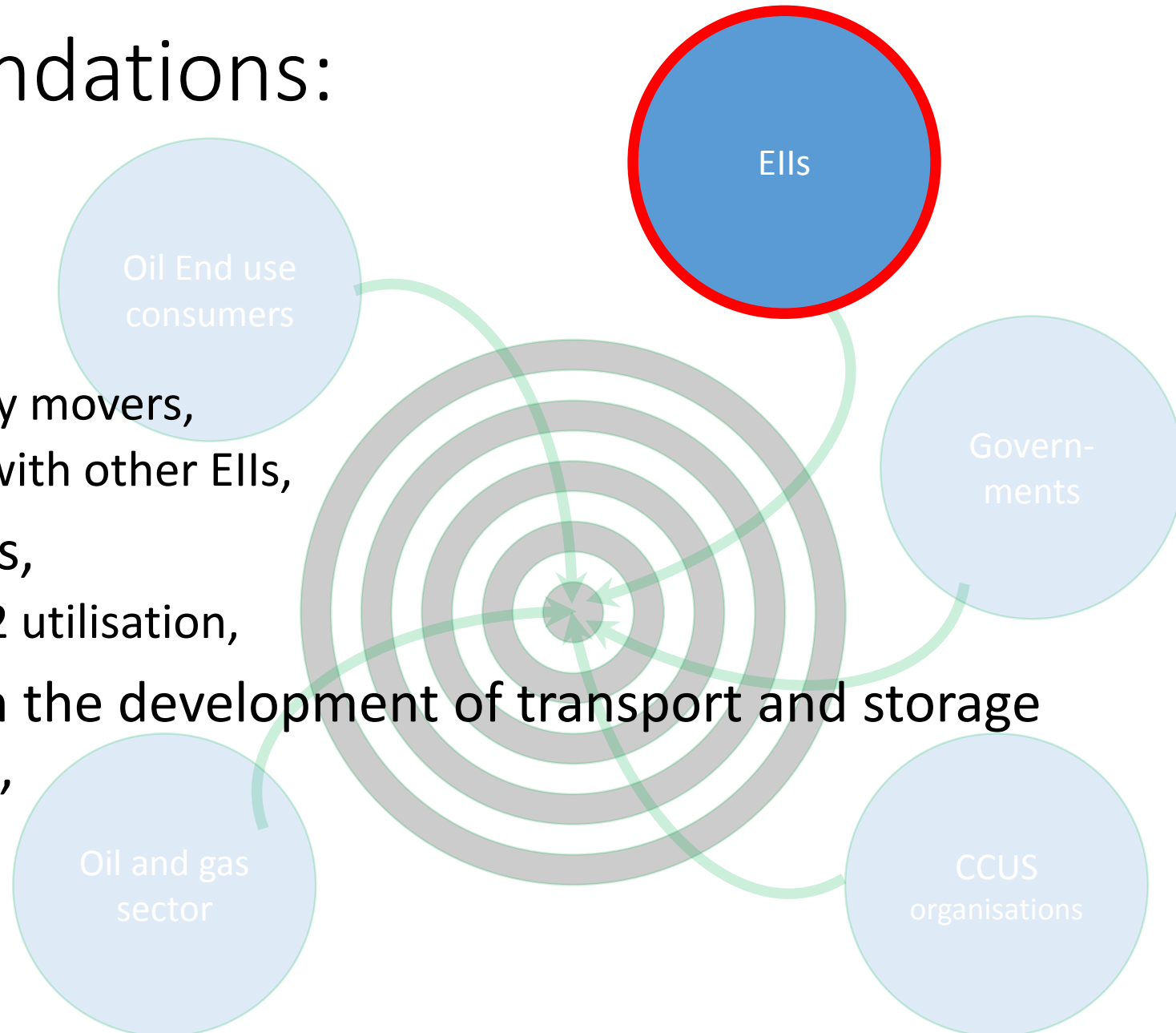


Recommendations: roles of the main stakeholders



Recommendations:

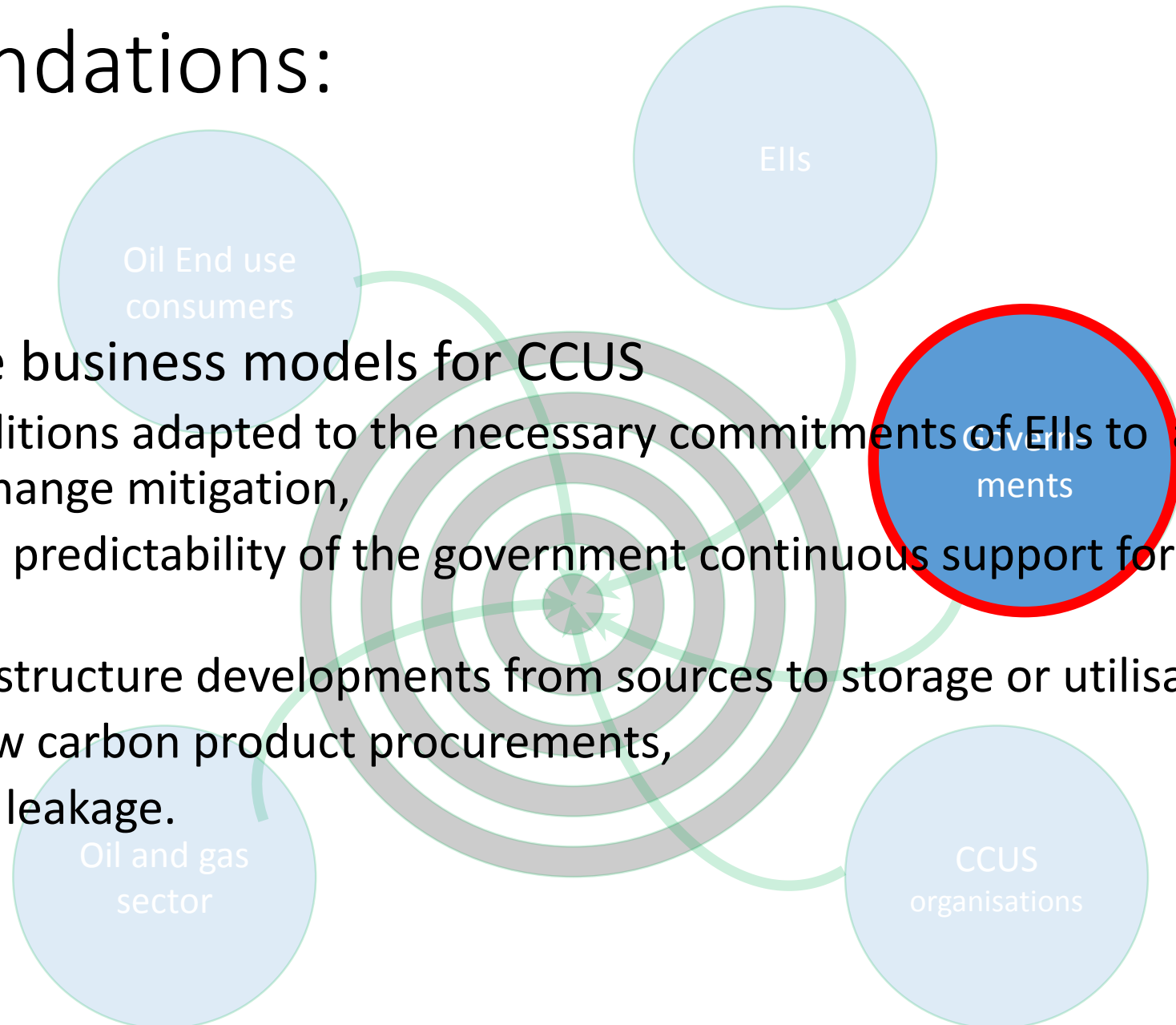
- Cooperation
 - With the early movers,
 - Interactions with other EILs,
- Circular models,
 - Based on CO2 utilisation,
- Interactions on the development of transport and storage infrastructures,



Recommendations:

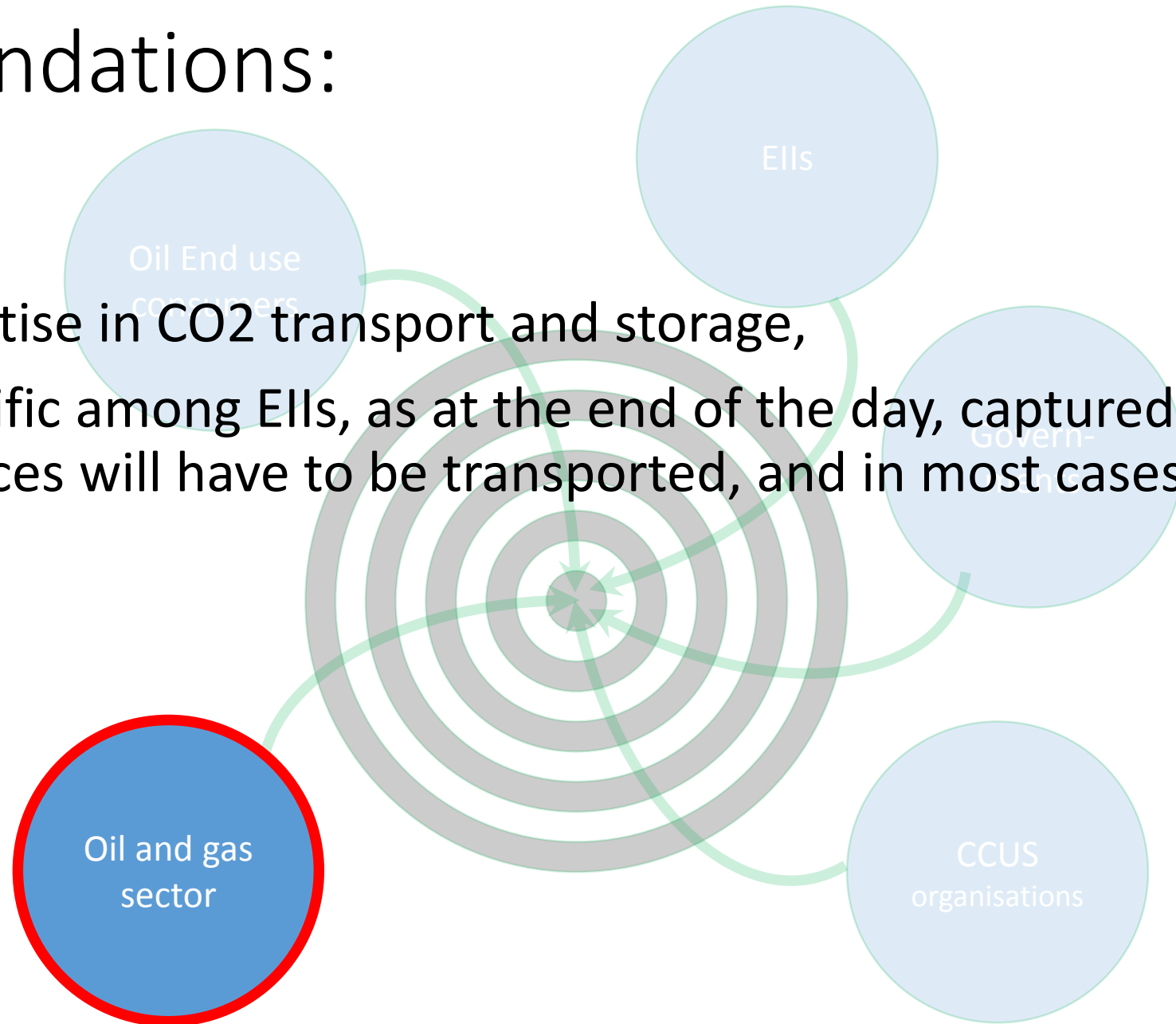
- Supporting the business models for CCUS

- Develop conditions adapted to the necessary commitments of EILs to achieve the climate change mitigation,
- Certainty and predictability of the government continuous support for CCUS in EILs,
- Support infrastructure developments from sources to storage or utilisation,
- Encourage low carbon product procurements,
- Avoid carbon leakage.

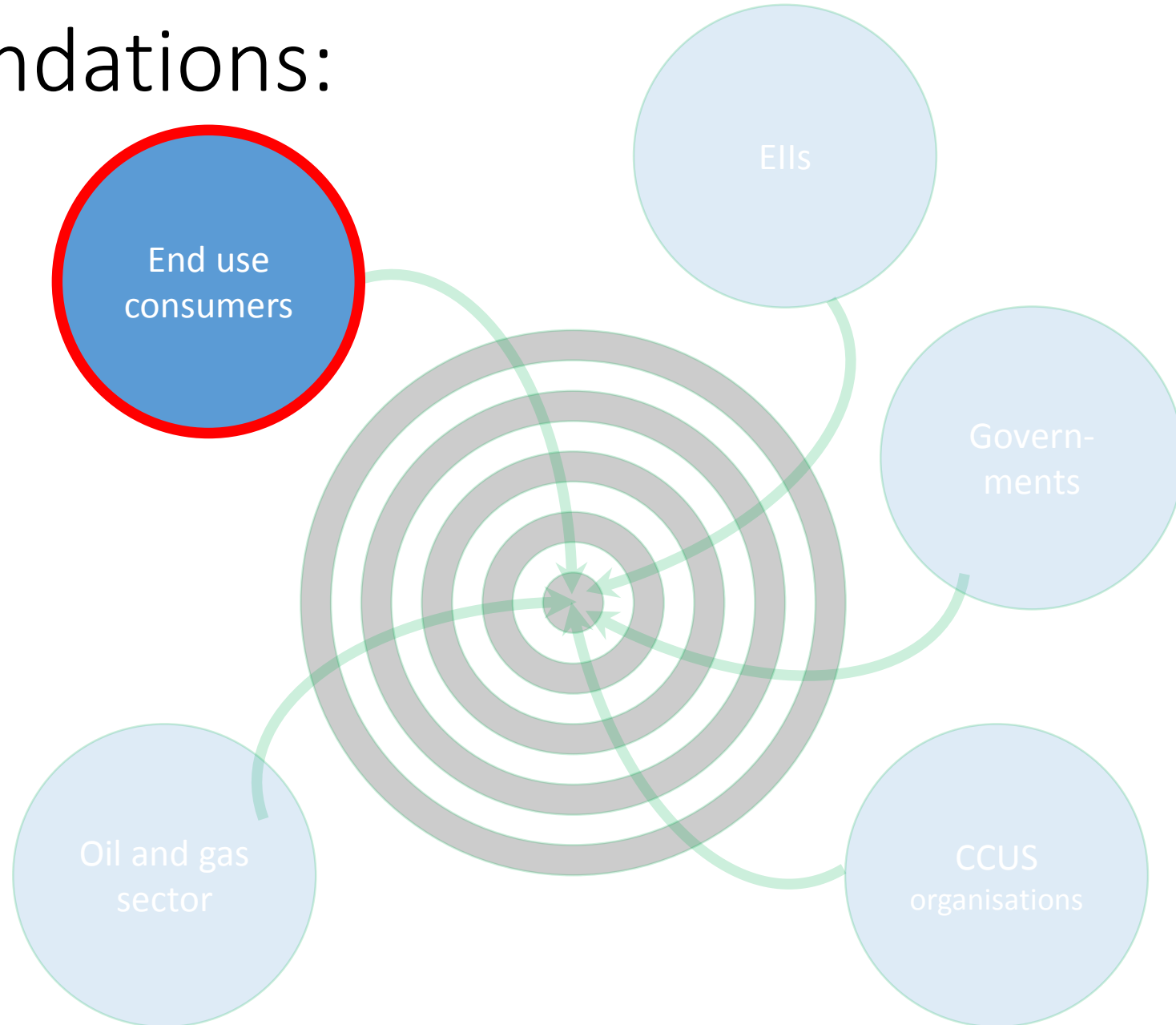


Recommendations:

- Bring its expertise in CO2 transport and storage,
- Its role is specific among EIs, as at the end of the day, captured CO2 from any sources will have to be transported, and in most cases stored (*)

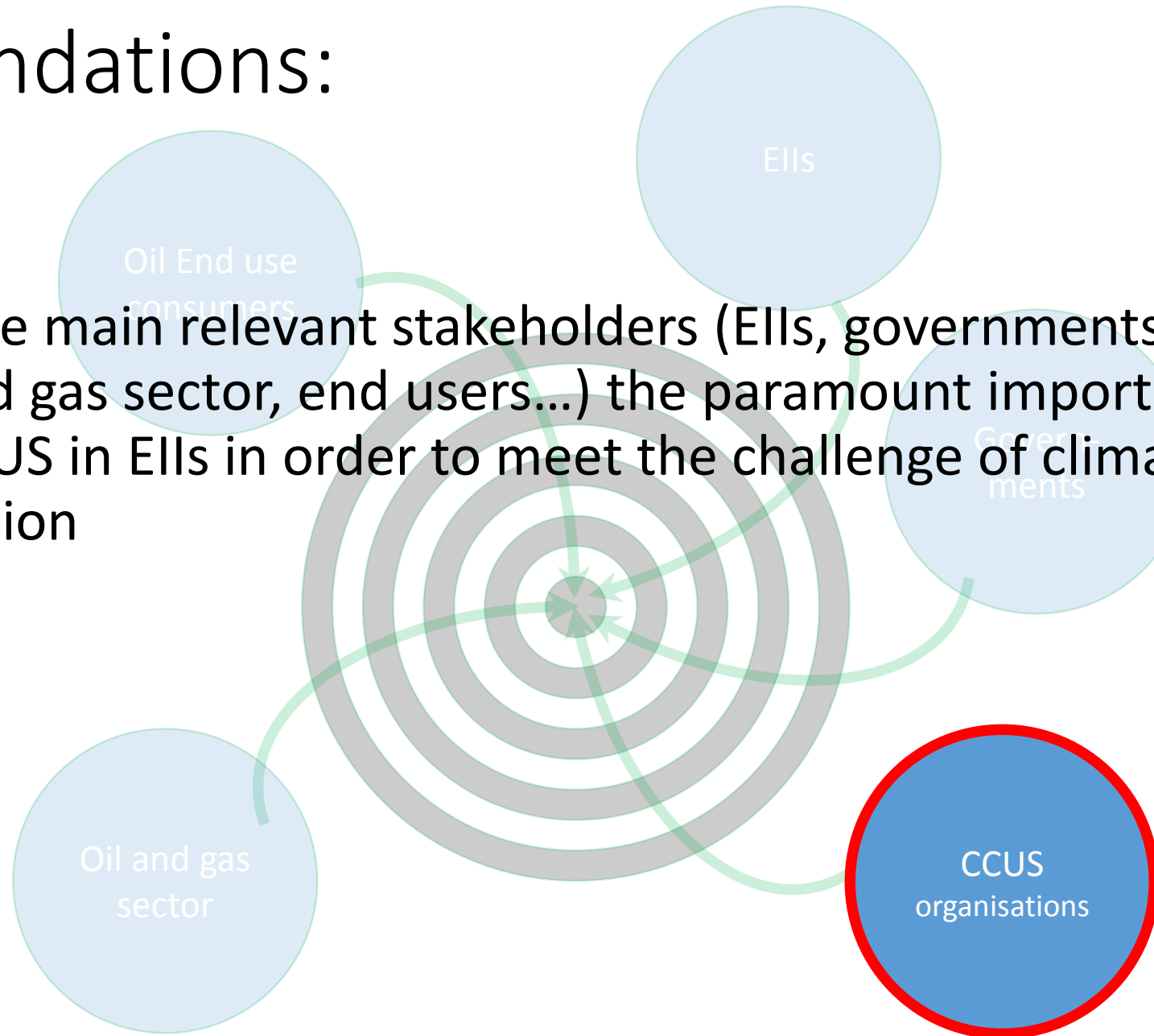


Recommendations:



Recommendations:

- Advocate to the main relevant stakeholders (EIs, governments and citizens, oil and gas sector, end users...) the paramount importance of developing CCUS in EIs in order to meet the challenge of climate change mitigation



- CCUS is not the only contributor to climate change mitigation, although its role is key.
- CCUS complements, rather than competes, with other low-carbon solutions to help the transformation to a decarbonized society.

Main contributors to this report



- France
- Norway
- Canada
- Sectorial business organisation and companies covering the full perimeter.