



Closed Carbon Cycle MOBILITY

Klimaneutrale Kraftstoffe
für den Verkehr der Zukunft

Project partners



Associated partners or in subcontract



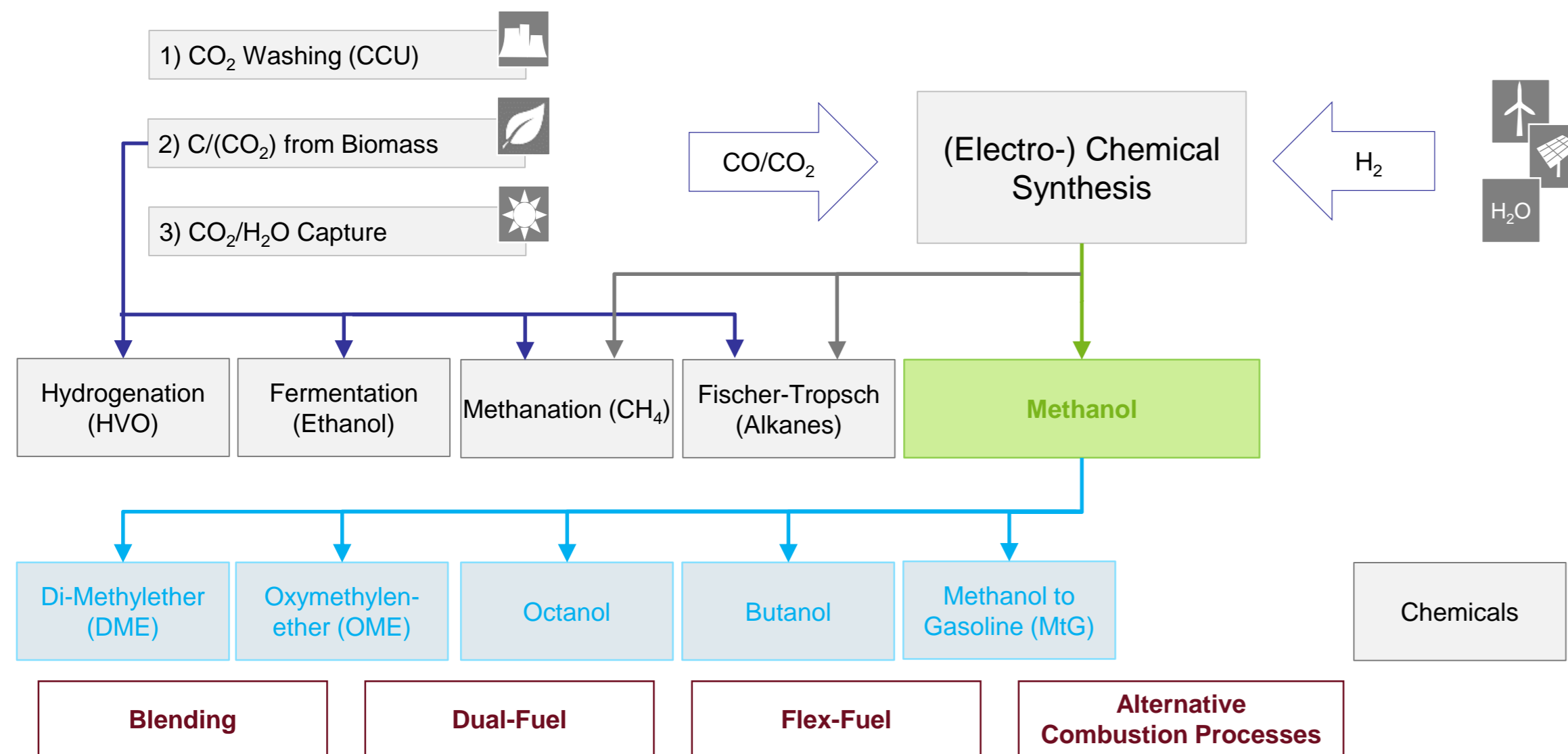
Abstract

The joint research project C³-Mobility wants to develop and demonstrate new ways to the CO₂-neutral mobility of the future. 30 partners from energy supply, process engineering, engine and vehicle construction as well as research and development have formed a cross-sector consortium to adequately deal with issues relating to CO₂-neutral transport using synthetic fuels in their entirety. The focus of the project is on fuels based on methanol. In addition to the direct engine use of methanol, its (local) processing into other fuels is also to be investigated. The entire value chain from fuel synthesis through engine application to market launch is to be assessed.

Objectives and Concept

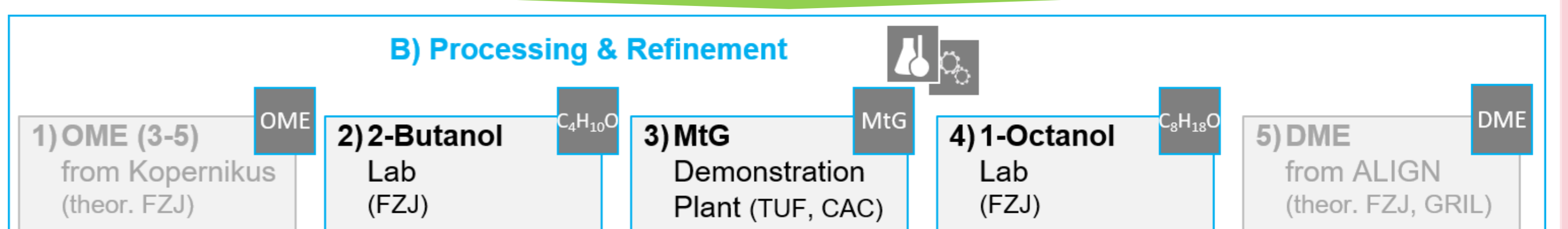
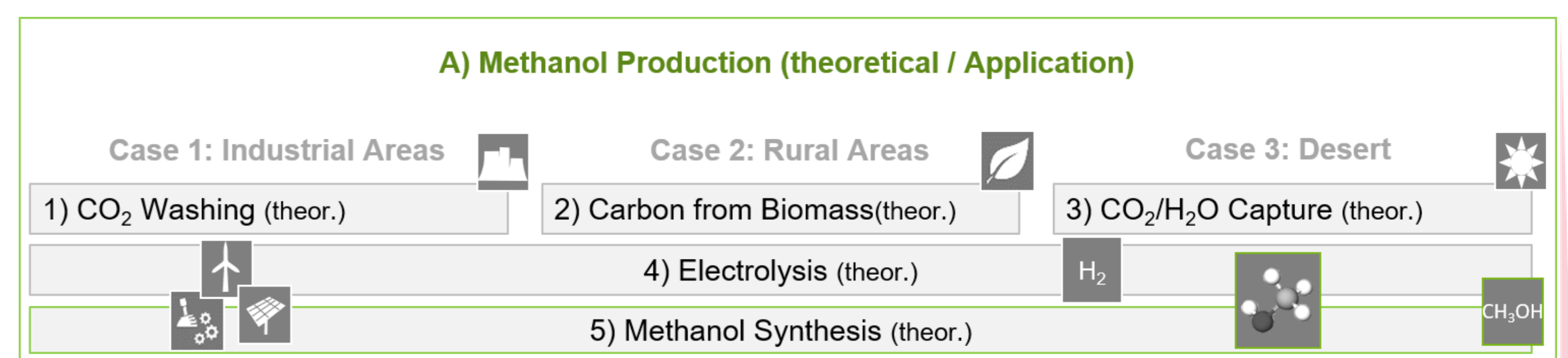
Motivation

- Energy imports and liquid fuels will still be required in large quantities in the future
- Methanol is an energy carrier and base for many other products that can be efficiently synthesized from renewable carbon and renewable energy



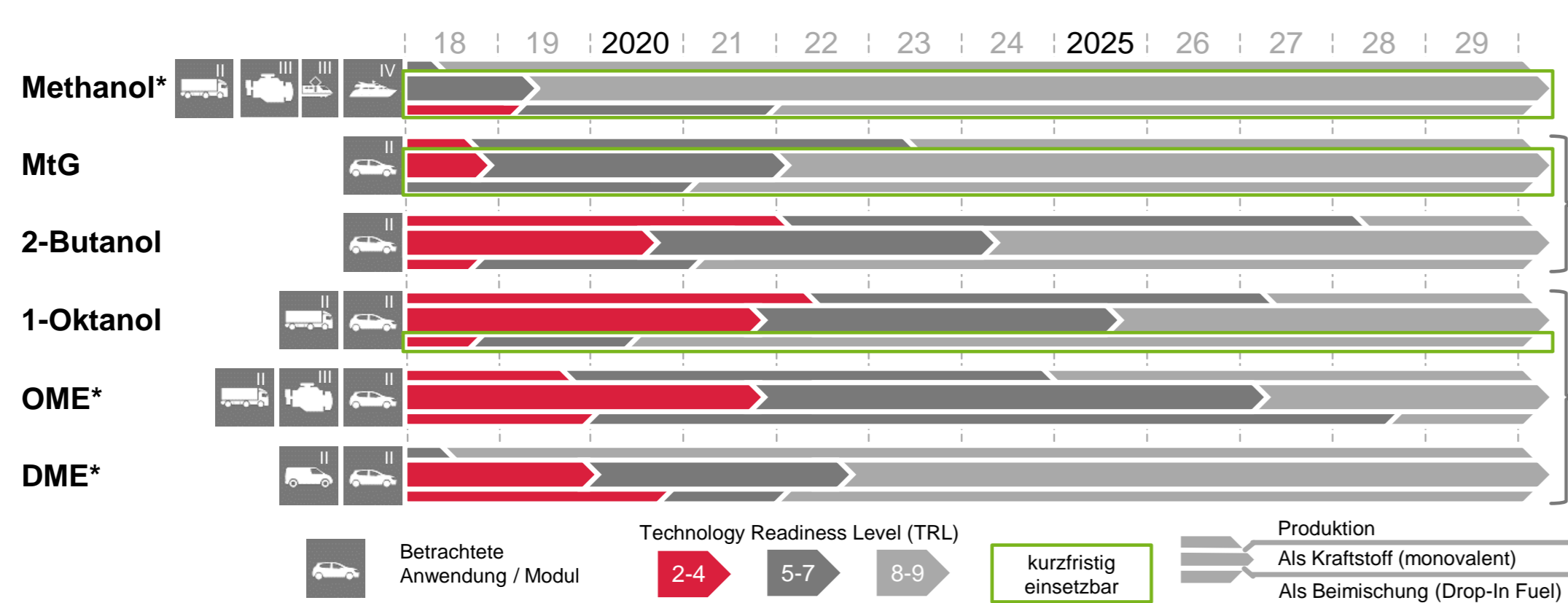
Project structure and work packages

- Theoretical and experimental work packages with interactions with other funded project groups
- Close networking of the sub-projects (across modules) through cross-sectional functions and holistic system evaluation

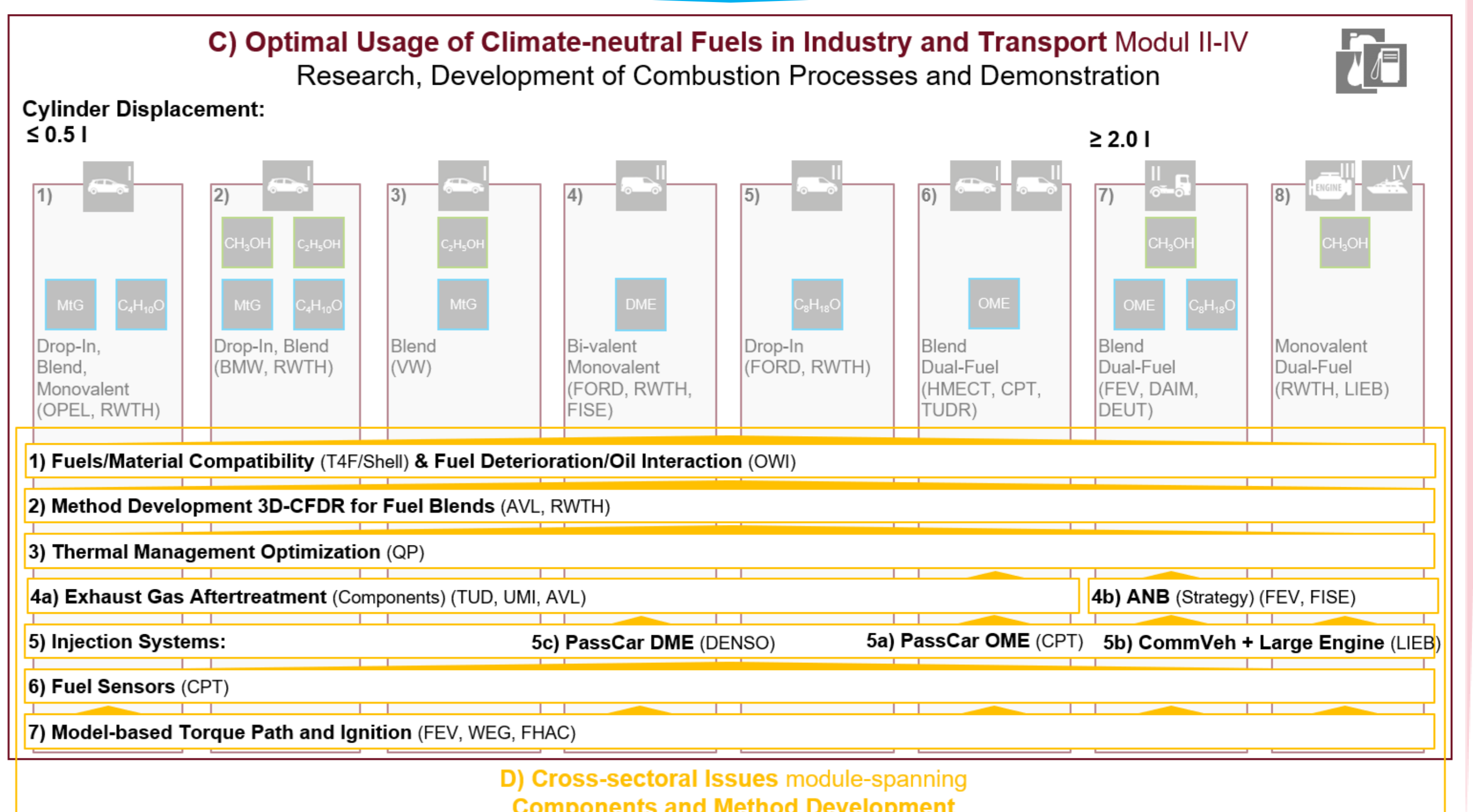


Evaluation of electricity-based fuels

- Which electricity-based fuels made from methanol are possible (and compatible with the existing fleet)?



- Which degrees of efficiency (well-to-wheel) can be achieved, and which technologies are required for this?
- How does a market launch of new / adapted engines and new fuels work, in the existing fleet also?



Project Information

Runtime: 08/01/2018 – 07/31/2021

Support code: 19I18006

Project executing organisation:
TÜV Rheinland Consulting GmbH
Projekträger Jülich

Project coordination:
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Supported by:



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by the German Bundestag