



FUEL CELLS AND HYDROGEN
JOINT UNDERTAKING

***Programme
Review
Days 2017***

Mirela Atanasiu

PRD 2017

23-24 November 2017



Agenda



PROGRAMME REVIEW DAYS 2017
FUEL CELLS AND HYDROGEN: FROM TECHNOLOGY TO MARKET
23-24 NOVEMBER, BRUSSELS

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THURSDAY, 23 NOVEMBER 2017

08:15 - 08:45 Registration and coffee

08:45 - 09:00 **Opening remarks**

Atanasiu Mirela, Head of Unit Operations & Communication FCH JU

13:30 - 14:30 Lunch break

10:30 - 11:30 HYDRI-EUROPE: Large scale demonstration of fuel cell powered material handling vehicles
11:00 - 11:30 Coffee break



EU Climate and Energy Framework

Making energy more secure, affordable and sustainable



*Jean-Claude
Junker*

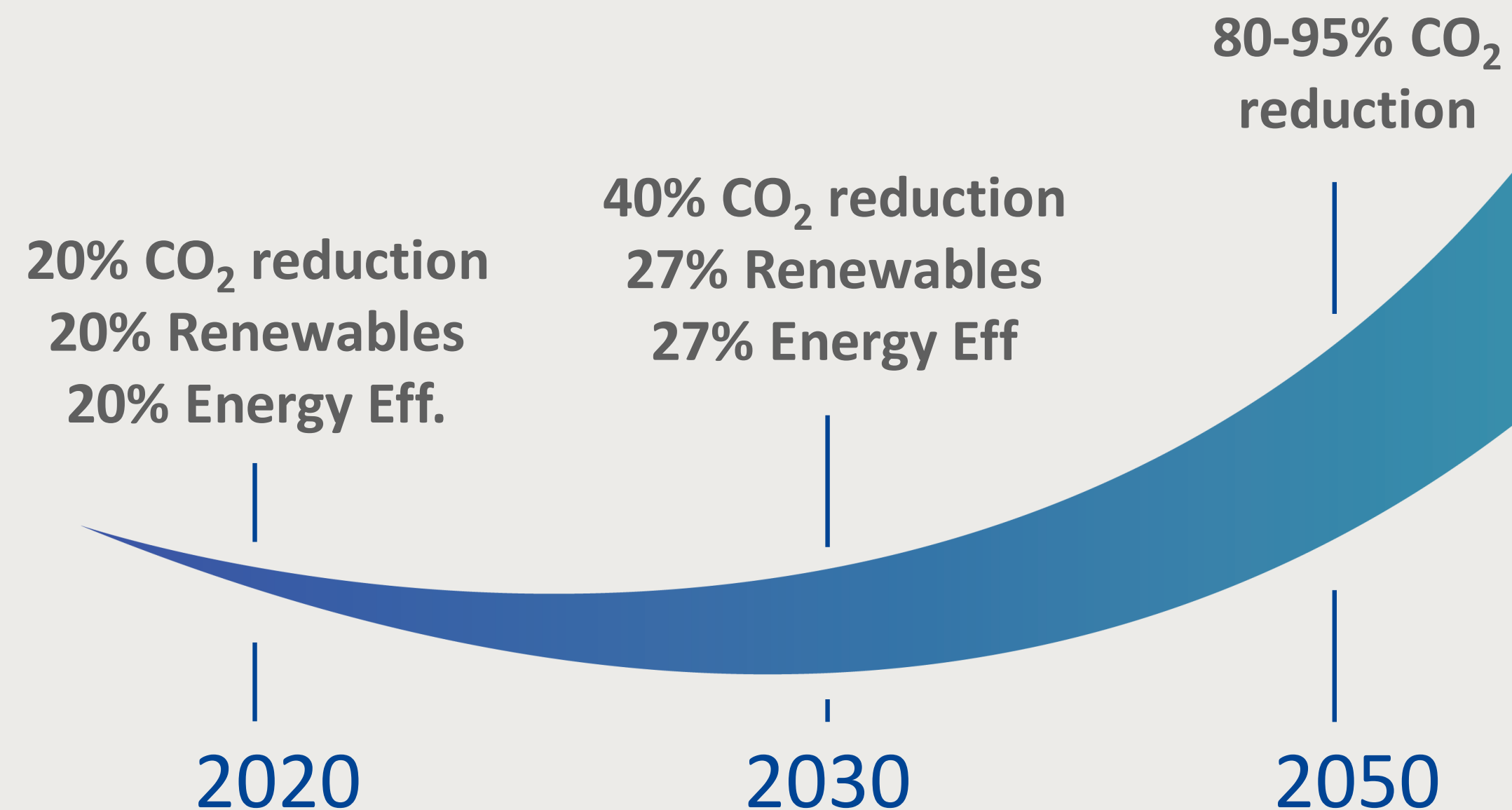
*President of the
European
Commission*



*“I want to reform and reorganise Europe’s
energy policy in a new European Energy
Union”*

Energy Union dimensions

- *Security, solidarity and trust*
- *Fully-integrated Internal Energy Market*
- *Energy Efficiency*
- *Climate action - decarbonising the economy*
- *Research, innovation and competitiveness*



Strong public-private partnership with a focused objective

EU Institutional Public-Private Partnership (IPPP)



Fuel Cells & Hydrogen Joint Undertaking (FCH 2 JU)



Industry grouping
More than 130 members
50% SME



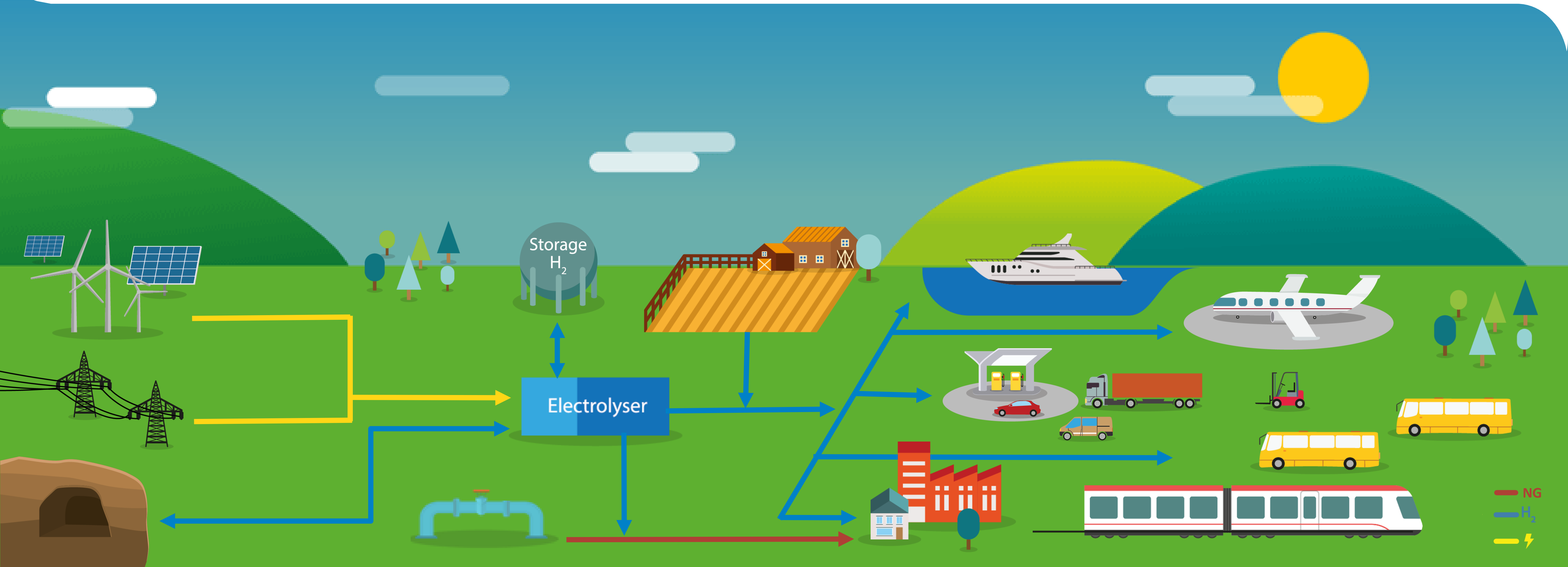
Research grouping
over 60 members

To implement an *optimal research and innovation programme* to bring FCH technologies to the point of market readiness by 2020



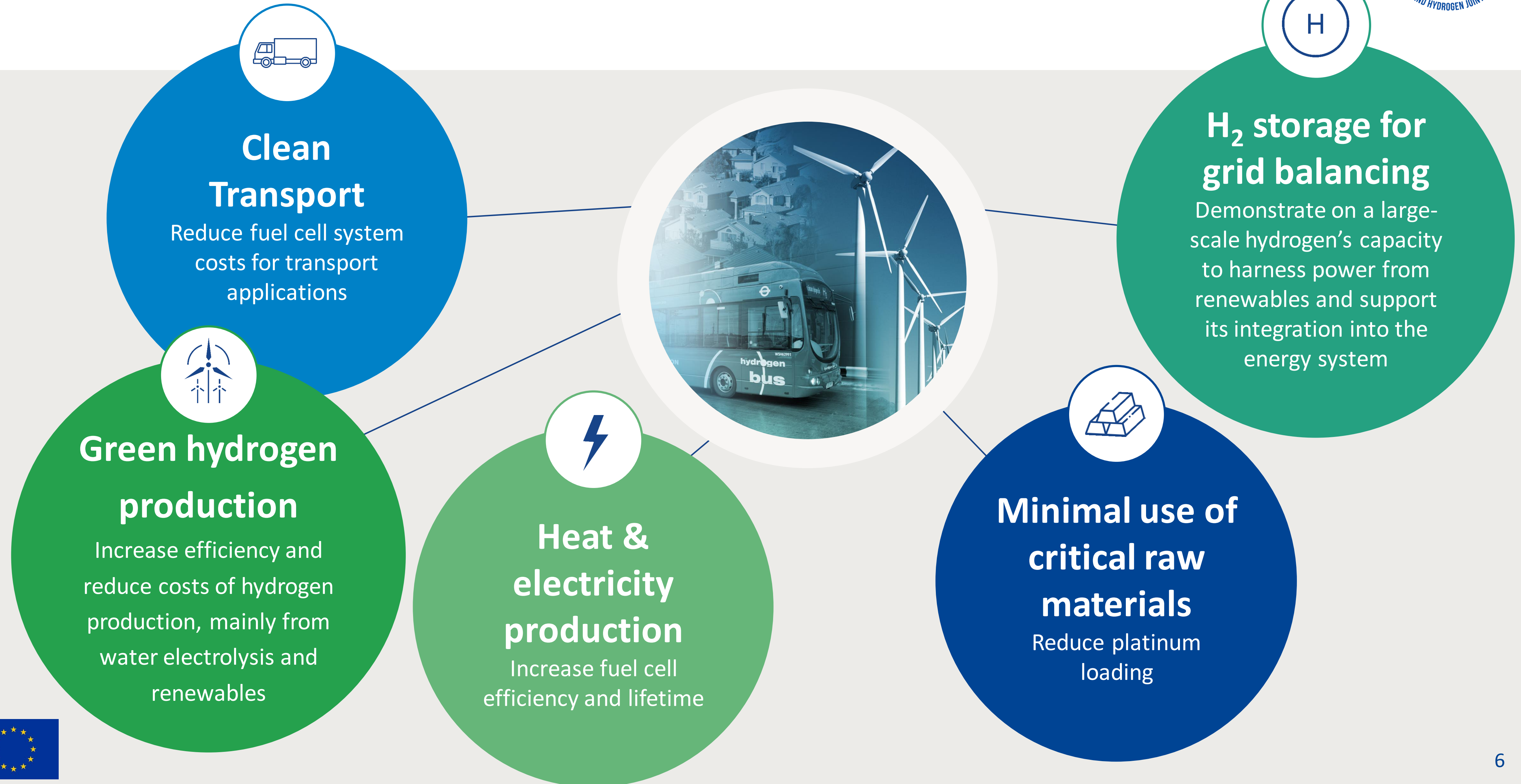
The hydrogen economy

Fuel cells, as an efficient conversion technology & Hydrogen, as a clean energy carrier



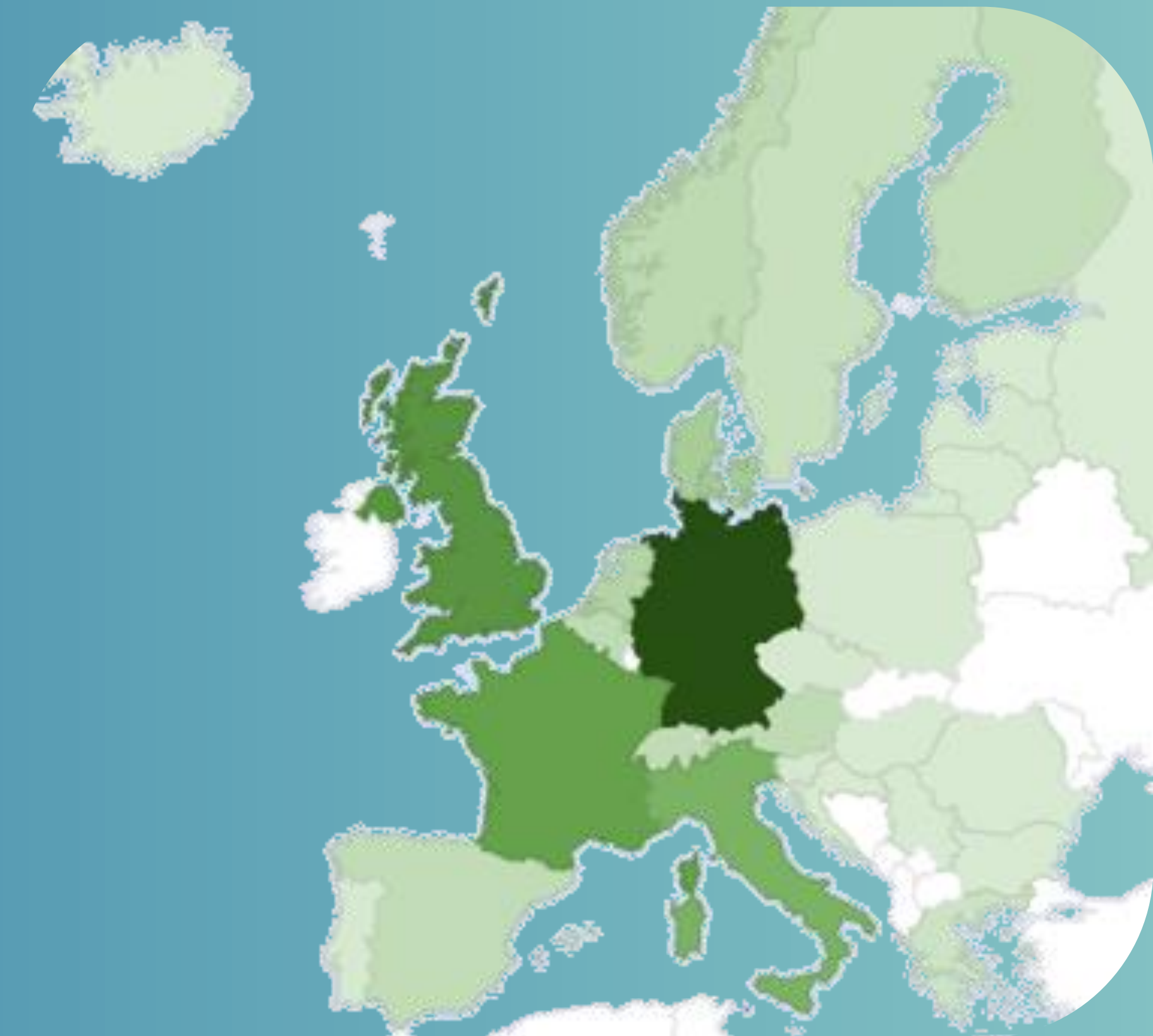
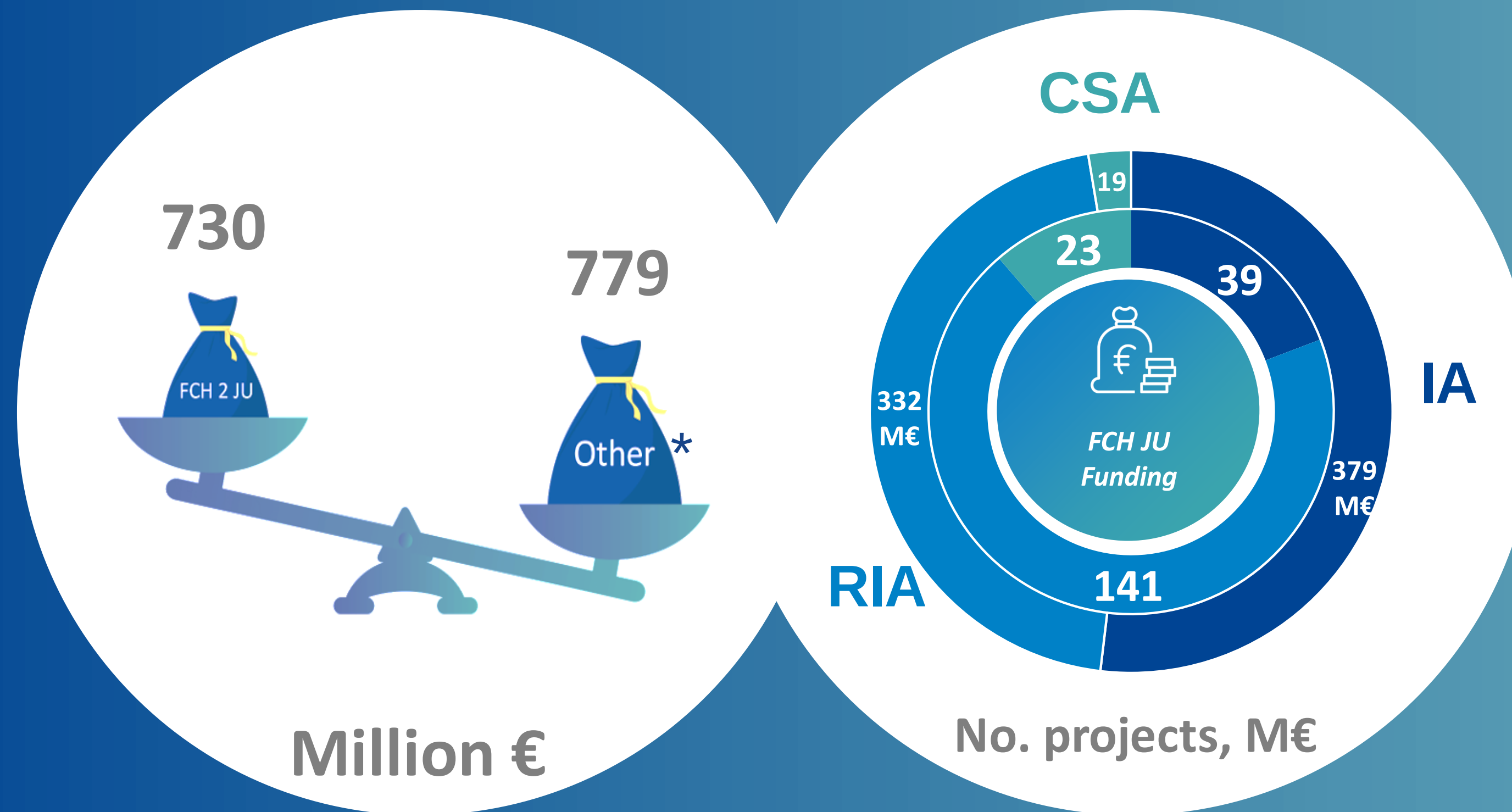
FCH 2 JU Objectives

Market readiness of a portfolio of clean, efficient and affordable solutions for our energy and transport systems



Attracting investment from industry and research

203 projects, 730 M€ public support, on both research and innovation activities



0 190 M€



* Other resources including private and national/regional funding

RIA=Research and Innovation action

IA=Innovation actions

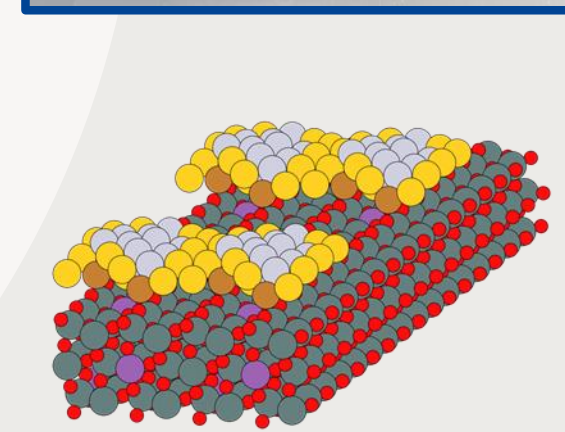
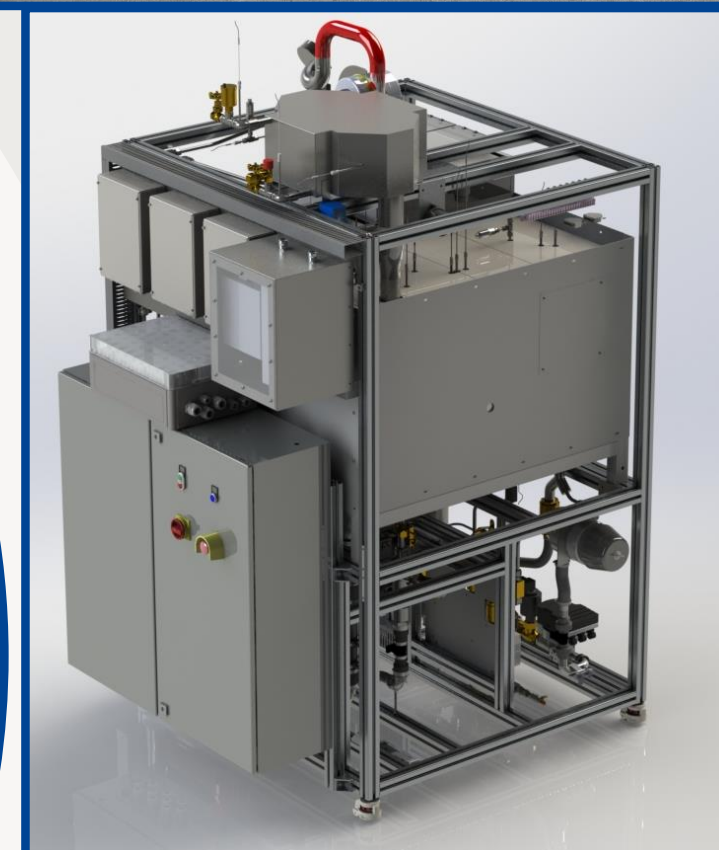
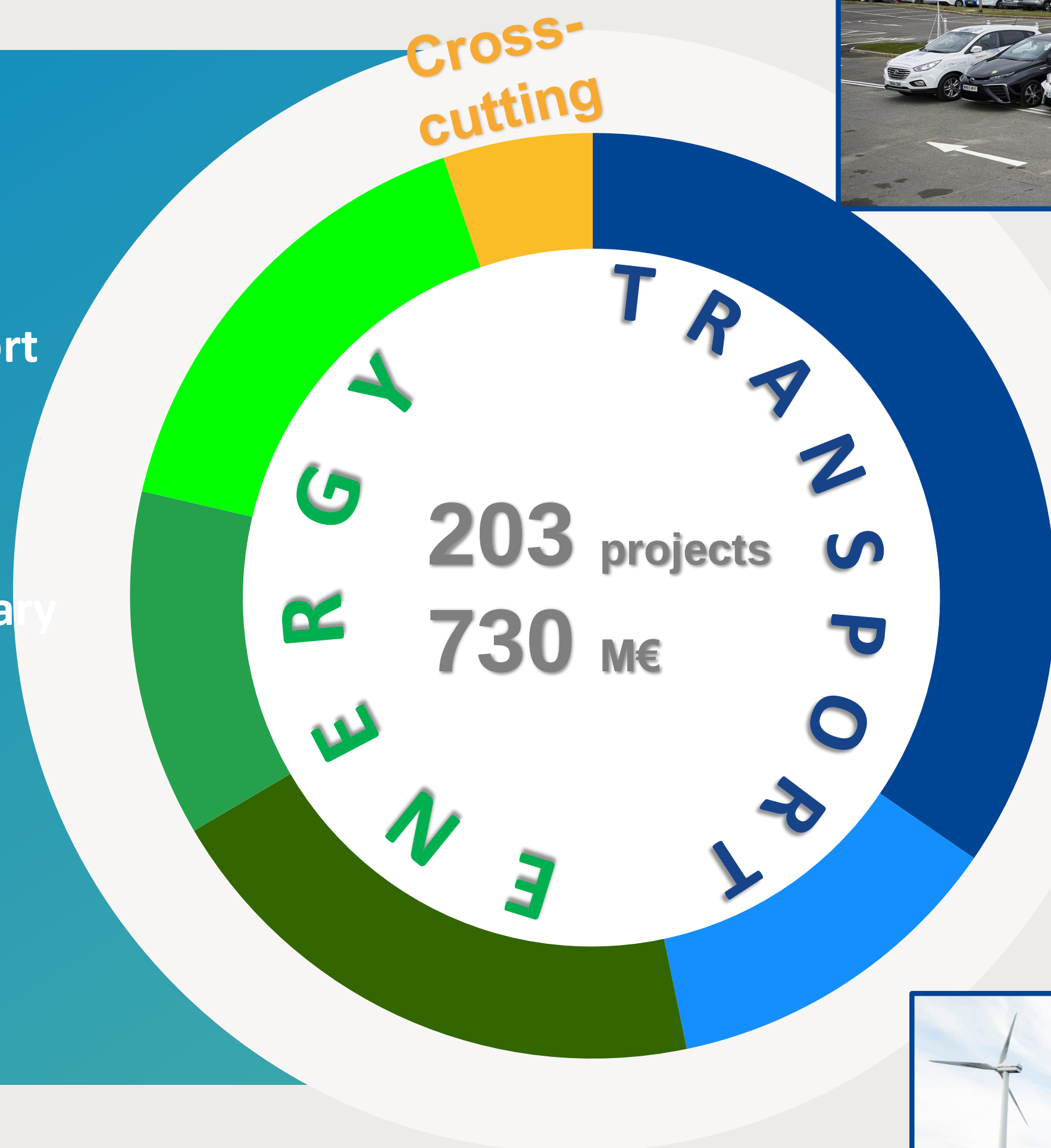
CSA=Coordination and Support action

Complex portfolio of projects

From research to validation and field demonstration



- Panel 1 - Technology validation in transport applications
- Panel 2 - Research activities for transport applications
- Panel 3 - Technology validation in stationary applications
- Panel 4 - Research activities for stationary applications
- Panel 5 - Hydrogen production, distribution and storage: research and validation
- Panel 6 - Cross-cutting



Annual Programme Review 2017

Exceptional effort of a team of more than 100 projects consortia, JRC and Programme Office



- Performed on the basis of the projects funded by the programme and carried out by external experts (by JRC as of 2017);
- Analysis of a selected portfolio of projects, mainly those ongoing during June-October of the previous year (2016) against targets and Key Performance Indicators set by the Multi-Annual Work-Plan (MAWP) and Annual Work-Plans (AWPs);
- Collection of annual input from projects, in addition to contractual documents and project reports; parallel exercise of annual data collection (dedicated templates in internal database TRUST); project posters also in exhibition;
- Important effort of team of project officers and knowledge management to validate, clean and analyse/extract data for publication; however, substantial amount of data still confidential;
- Great support from JRC colleagues in reviewing the portfolio and provide state-of-art data; HIAD database renamed;
- Final report (around February 2018)





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FCH JU