



**FUEL CELLS AND HYDROGEN**  
JOINT UNDERTAKING

# **Introduction to FCH 2 JU and call 2019**

**Mirela Atanasiu**  
*Head of Unit*



# EU Climate and Energy Framework

Making energy more secure, affordable and sustainable



Jean-Claude  
Junker

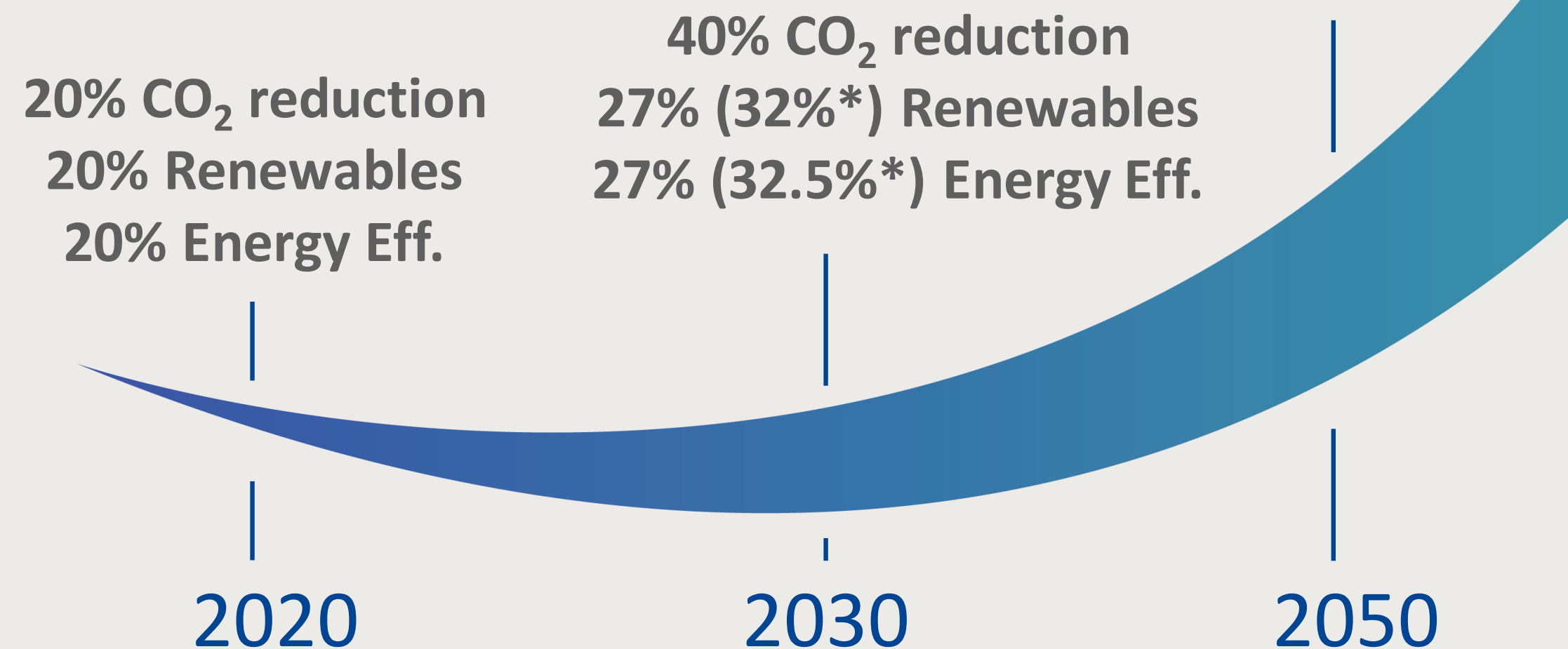
President of the  
European  
Commission



*“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



\* 14 June 2018: Commission, Parliament and Council Political Agreement

# Strong public-private partnership with a focused objective

EU Institutional Public-Private Partnership (IPPP)



## Fuel Cells & Hydrogen Joint Undertaking (FCH 2 JU)



**Industry grouping**  
About 130 companies  
50% SME



European  
Commission



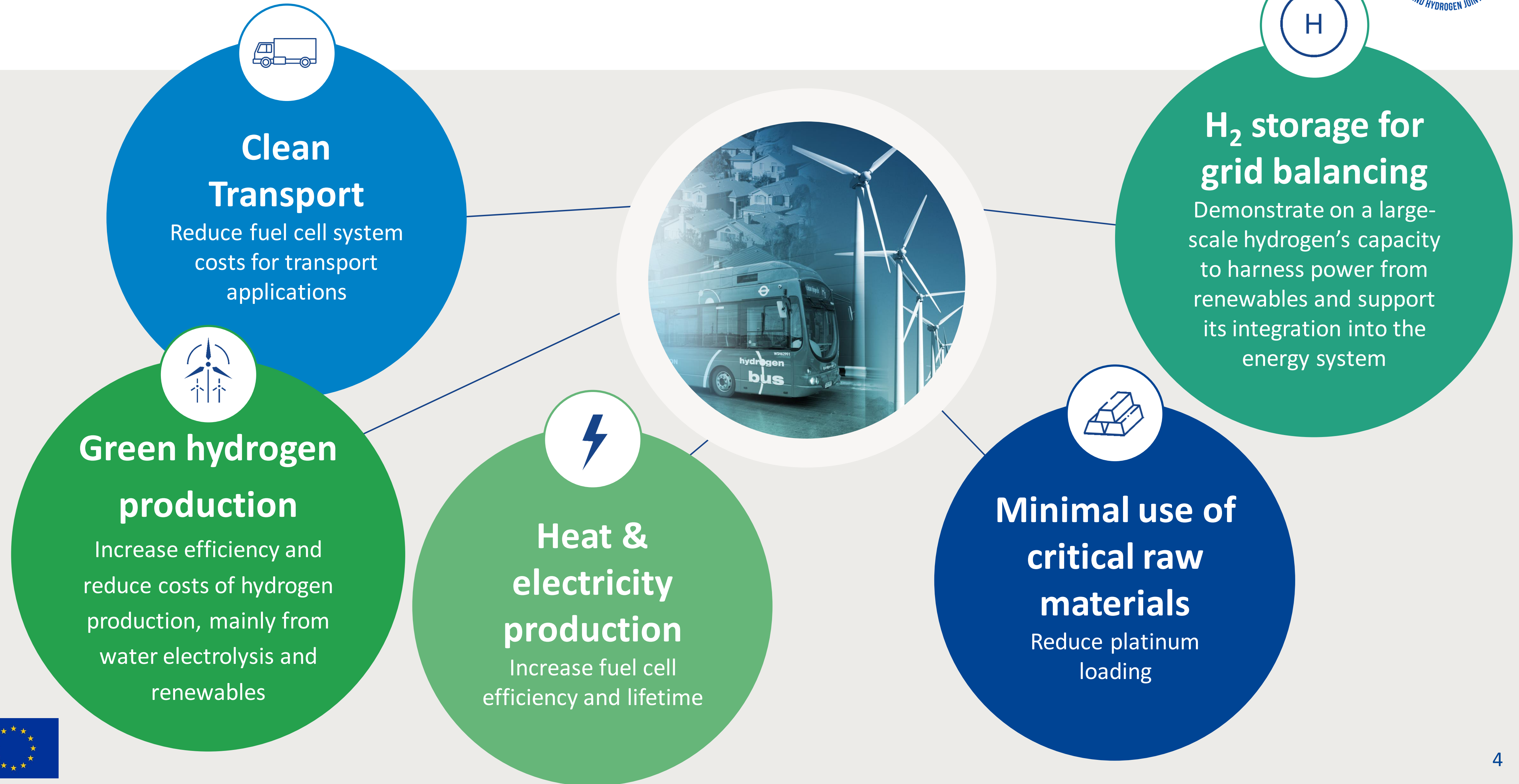
**Research grouping**  
About 70 institutions



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

# FCH 2 JU Objectives

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



# FCH 2 JU Programme structure



## ENERGY

- Hydrogen production and distribution
- Hydrogen storage for renewable energy integration
- Fuel cells for power & combined heat & power generation



## CROSS-CUTTING

(e.g. standards, safety, education, consumer awareness, ...)



## TRANSPORT

- Road vehicles
- Non-road vehicles and machinery
- Refuelling infrastructure
- Maritime, rail and aviation applications

**FCH 2 JU:**

**Total Budget:** at least 1.3 bill.€

**EU contribution:** 665 mill.€



# FCH JU programme implementation (2008-2018)



## Energy

- Hydrogen production and distribution
- Hydrogen storage for renewable energy integration
- Fuel cells for power & combined heat & power generation



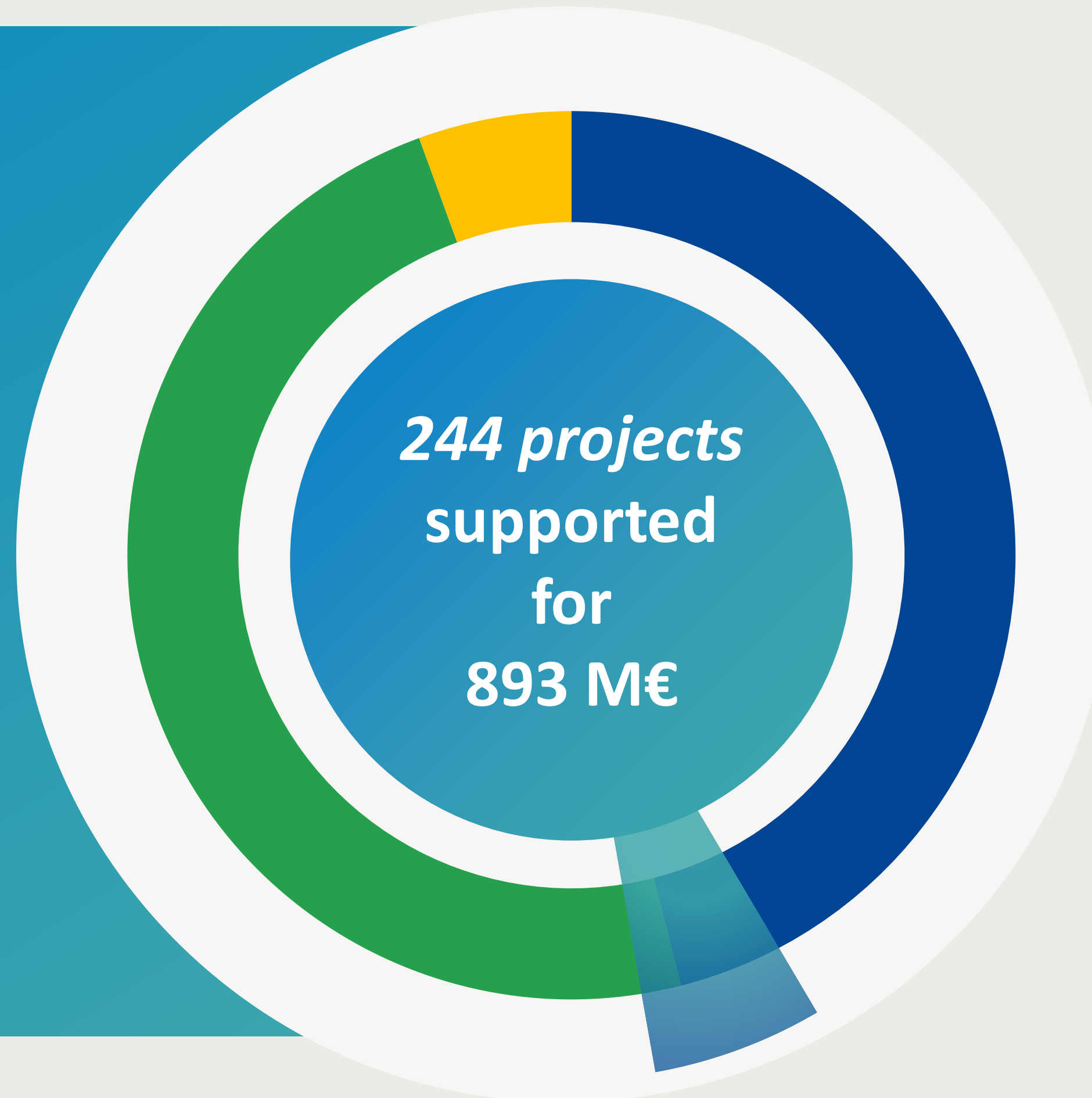
## Transport

- Road vehicles
- Non-road vehicles and machinery
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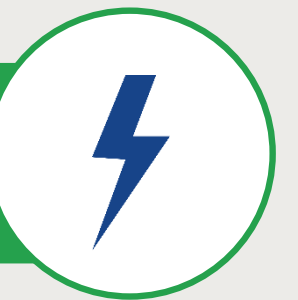


## Cross-cutting

- E.g. standards, safety, education, consumer awareness ...



47 %



418 million euros

135 projects

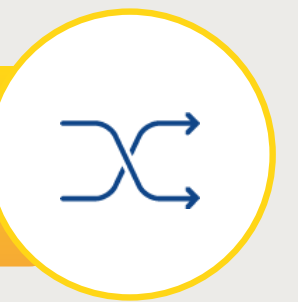
42 %



376 million euros

65 projects

6 %



53 million euros

40 projects

5 %



46 million euros

4 projects



Similar leverage of other sources of funding: 892 m€

# Call 2019 overview

Reflects the industry and research partners' assessment of the state of the technological maturity of the applications and their estimated importance to achieve critical objectives of the FCH 2 JU



Call identifier: H2020-JTI-FCH-2019-1

Total budget: EUR 80.8 million

Opening date: 15 of January 2019

Estimated deadline: 23 of April 2019

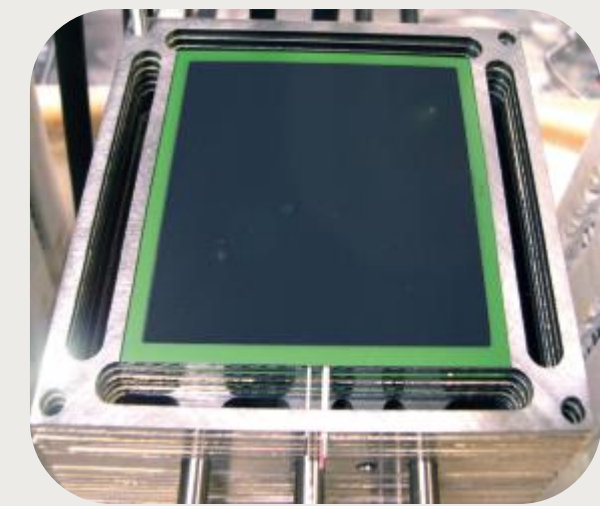
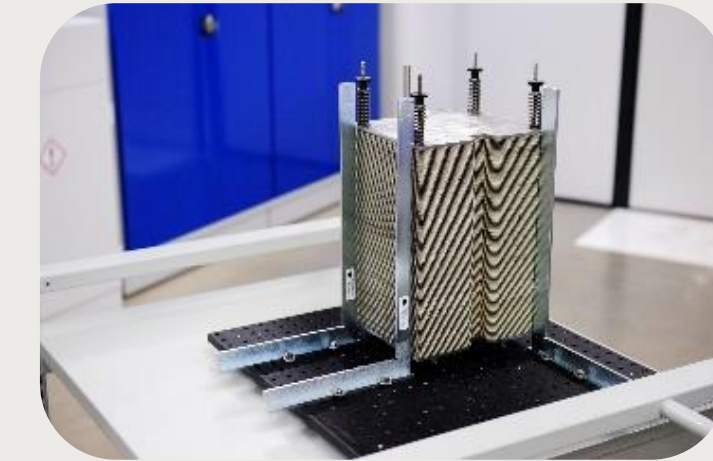
Content (17 topics in different sub-budget lists):

Transport activities: 3 IA and 2 RIA for EUR 27.3 million

Energy activities: 3 IA and 5 RIA for EUR 28.5 million

Overarching activities: 1 IA for EUR 20 million

Cross-cutting activities: 2 RIA and 1 CSA for EUR 5 million



# International cooperation

Renewable and Clean Hydrogen Challenge under Mission Innovation



## H2020 is open to the world - All topics are opened to international cooperation

In particular **international cooperation is strongly encouraged** with Mission Innovation countries and for the 6 topics identified with this logo



## Mission Innovation

- Launched in May 2018
- 16 countries
- Objective: *"To accelerate the development of a global hydrogen market by identifying & overcoming key technology barriers to the production, distribution, storage, and use of hydrogen at GW scale"*
- Scope:
  - focused multinational research & large scale demonstration efforts
  - from both public & private sectors
  - industry-directed breakthroughs within the next 3 years
  - renewable & clean hydrogen
  - 4 activity streams: making, sharing, using hydrogen & cross-cutting issues
- Australia, EU & Germany as co-lead countries





# Event's practicalities/Logistics



09:35 – 10:30 Call topics presentations

*10:30 – 11:00 Networking coffee*

11:00 – 13:00 Rules, legal & financial aspects, lessons learned

13:00 – 13:30 Brokerage event – H2 Valley

*13:30 – 14:30 Lunch*

**14:30 – 16:00 Brokerage event**

*16:00 – 17:00 Networking cocktail*

**Twitter**  
**#FCHJU\_infoday19**

**Web Streamed online during morning plenary session** (recordings accessible for free on our website after the event): <https://fch.webex.com/join/BFCH2JU>

## Questions?

Take your smartphone; go to [www.sli.do](http://www.sli.do) and insert the code **#FCHJU**

Answers will be provided during the two Q&A sessions on the day



# Brokerage



## Networking

Organisation Type



Info Day 2019

FCH  
FUEL CELLS AND HYDROGEN JOINT UNDERTAKING

First name

**Last Name**

Organisation name

Other

-  Transport
-  Overarching
-  Energy
-  Cross - Cutting

## Brokerage

**3 Brokerage parallel sessions (moderated by Project Officers)** - follow signs and paper guidance

Following interest in your registration form

### Participation to the brokerage sessions

Short presentation with slides? Please make sure you are present 15 minutes before your brokerage session starts in order to upload your presentation in advance. No upload will be possible once the session has started.





# FUEL CELLS AND HYDROGEN JOINT UNDERTAKING

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### For further information

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[www.hydrogeneurope.eu](http://www.hydrogeneurope.eu)  
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