



EU perspectives on Shipyards R&I projects

Fiber4yards; Resurgam; Mary4yards

Joint dissemination event
Rotterdam, 30-31 May 2023

European Climate, Infrastructure and Environment Executive Agency (CINEA)

Gabriel Mialocq, Head of Sector, Aviation and Waterborne R&I.

Agenda

- CINEA presentation
- EU Research and Innovation for transport
- Overview of CINEA's waterborne portfolio of R&I projects with focus on Horizon 2020 and Horizon Europe
- Focus on shipyard related projects
- Synergies with other EU programmes and future funding opportunities
- Conclusions

CINEA presentation

CINEA (European Climate, Infrastructure and Environment Executive Agency) in a nutshell:



~ **58 billion** for the period
2021-2027



> **500 staff** by 2027



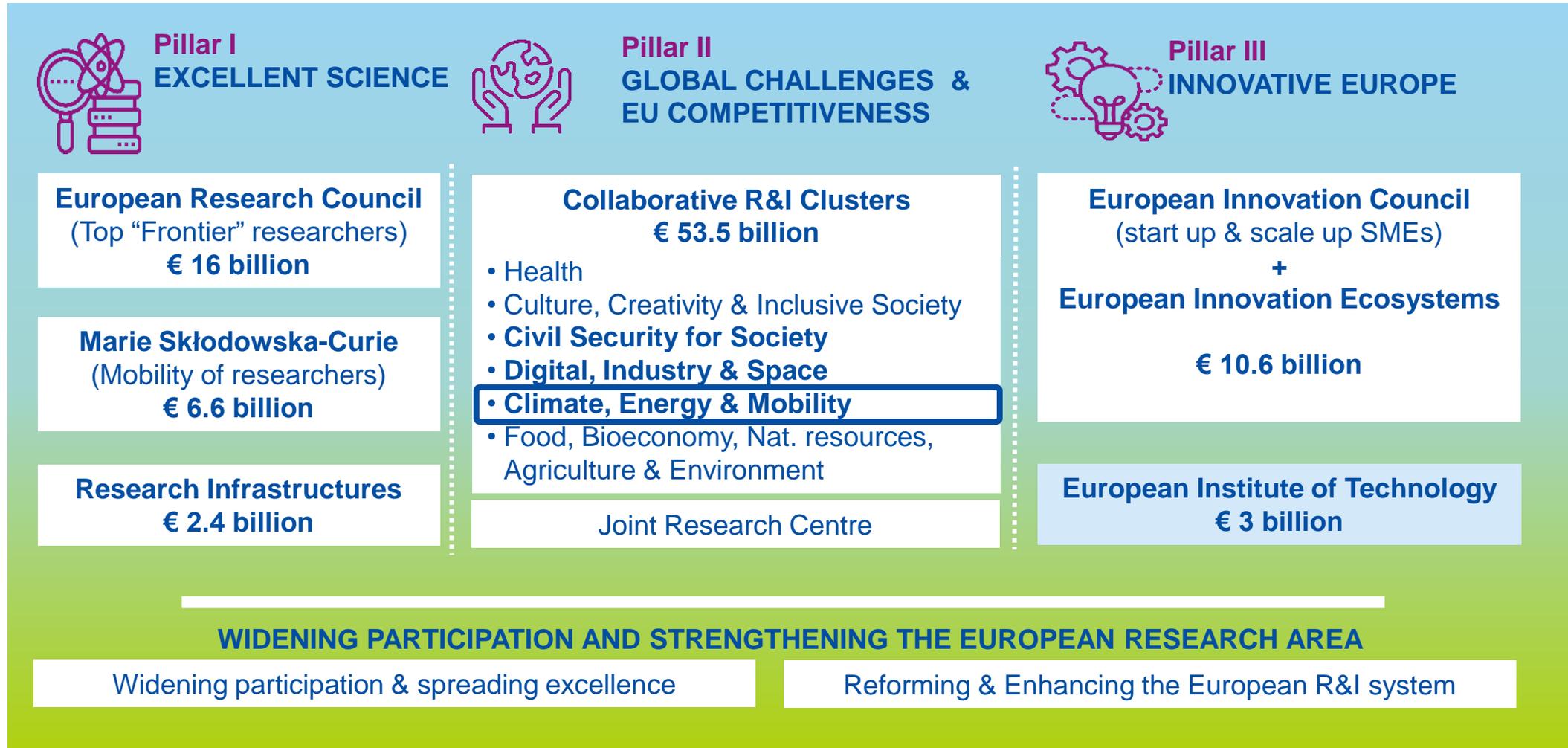
From **2800+** projects
managed in **October 2021**
to > **4500 projects** in 2027

- **Policy feedback** as an essential part of funding activities
- Expertise at the service of **beneficiaries** in managing the complete lifecycle of projects
- Exploitation of **synergies** and dynamic ways to work across programmes

EU Research and Innovation for Transport

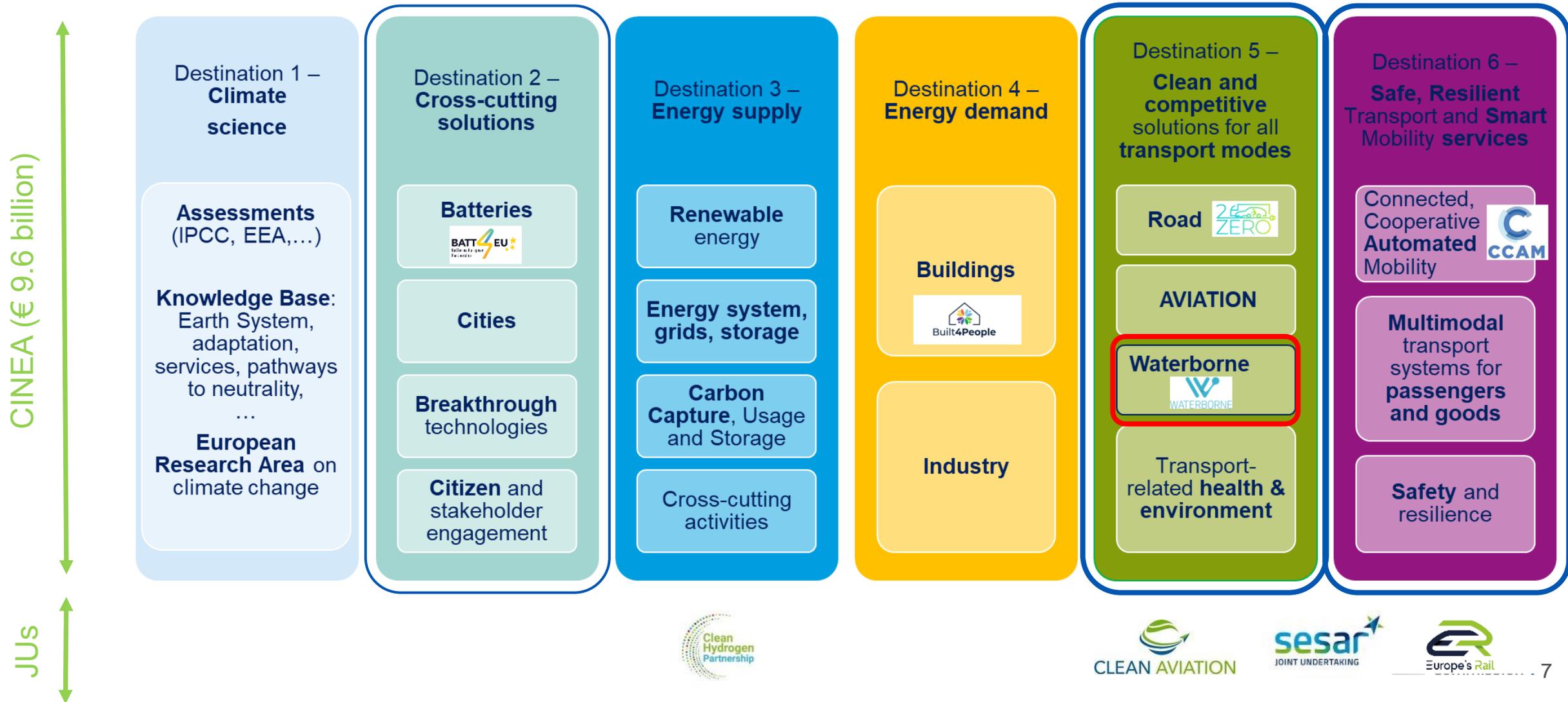
Horizon Europe

EU research & innovation framework programme (2021-2027)



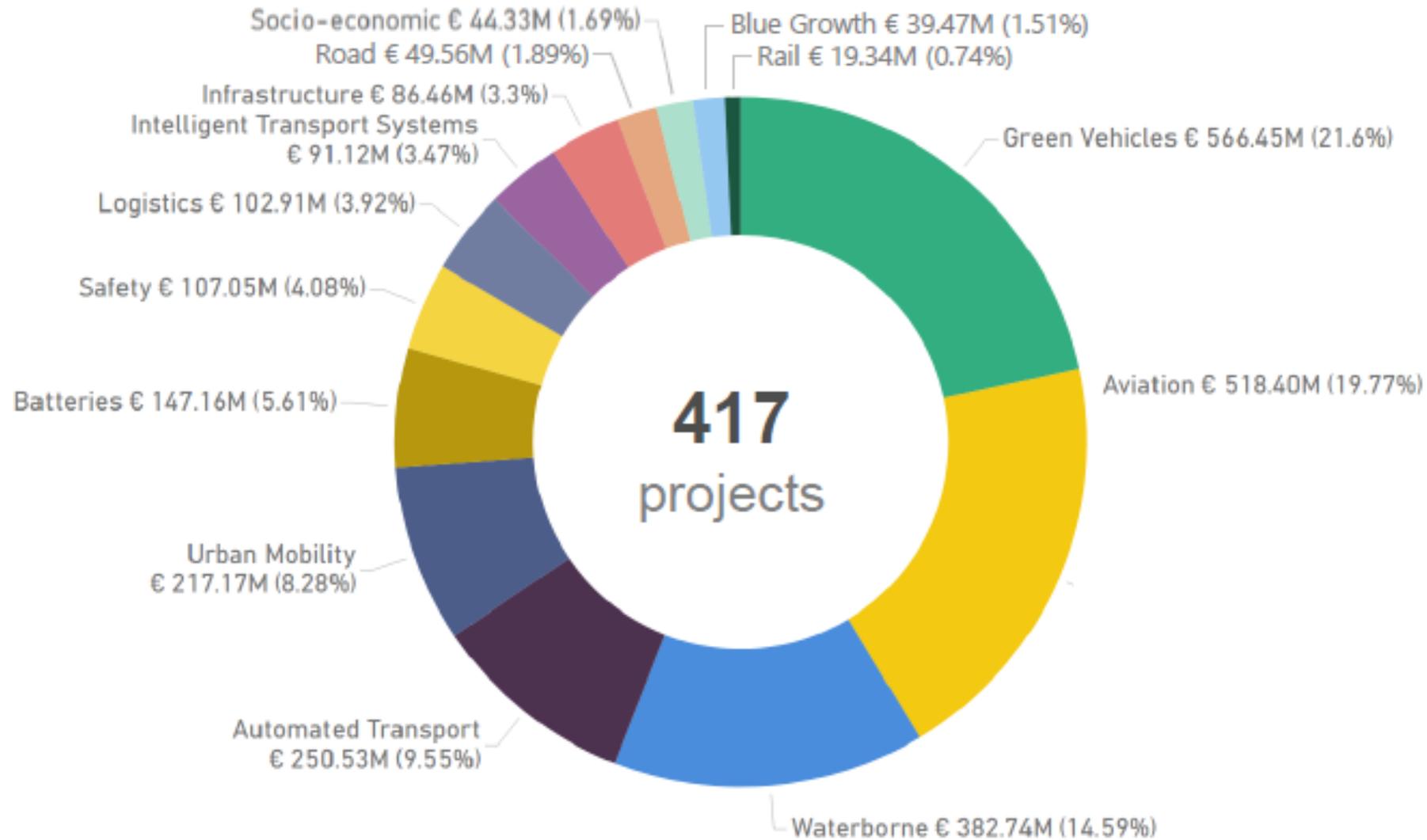
Beyond Horizon Europe civil R&I focus: **European Defence Fund € 8 billion**

2021- 2027 Horizon Europe R&I: Climate (1 € billion) + Energy (7 € billion) + Mobility (7 € billion)



Overview of CINEA's waterborne R&I projects: focus on Horizon 2020 and Horizon Europe

Transport R&I at CINEA - Overview (Horizon 2020)



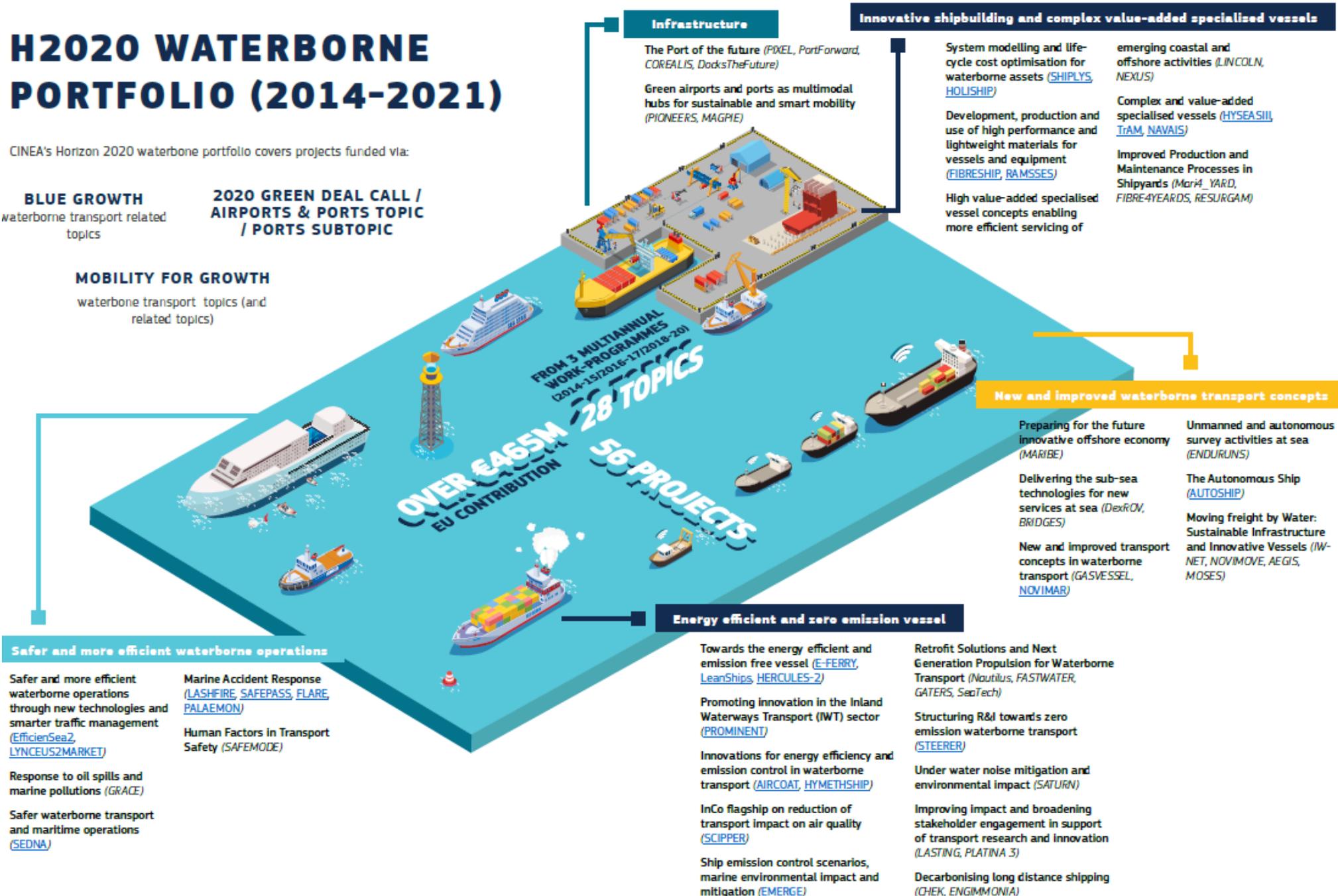
H2020 WATERBORNE PORTFOLIO (2014-2021)

CINEA's Horizon 2020 waterborne portfolio covers projects funded via:

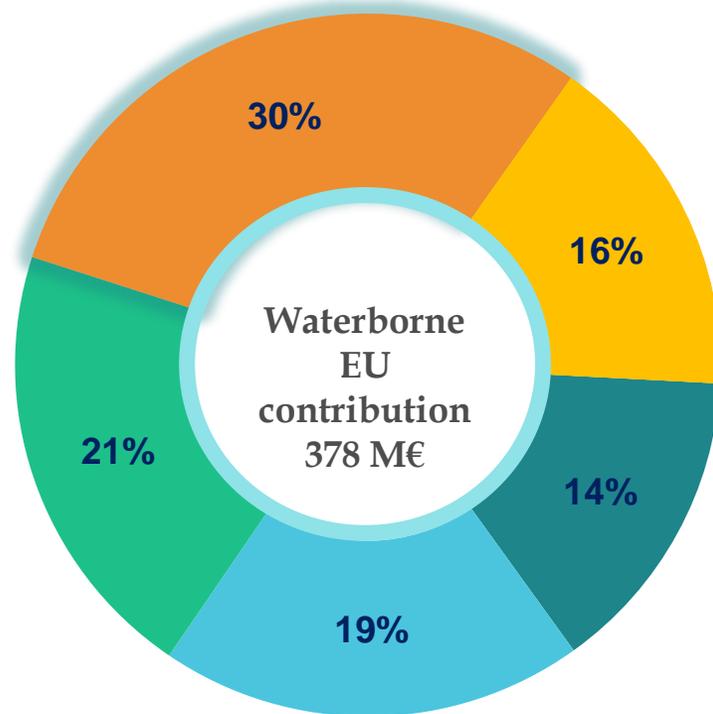
BLUE GROWTH
waterborne transport related topics

2020 GREEN DEAL CALL / AIRPORTS & PORTS TOPIC / PORTS SUBTOPIC

MOBILITY FOR GROWTH
waterborne transport topics (and related topics)



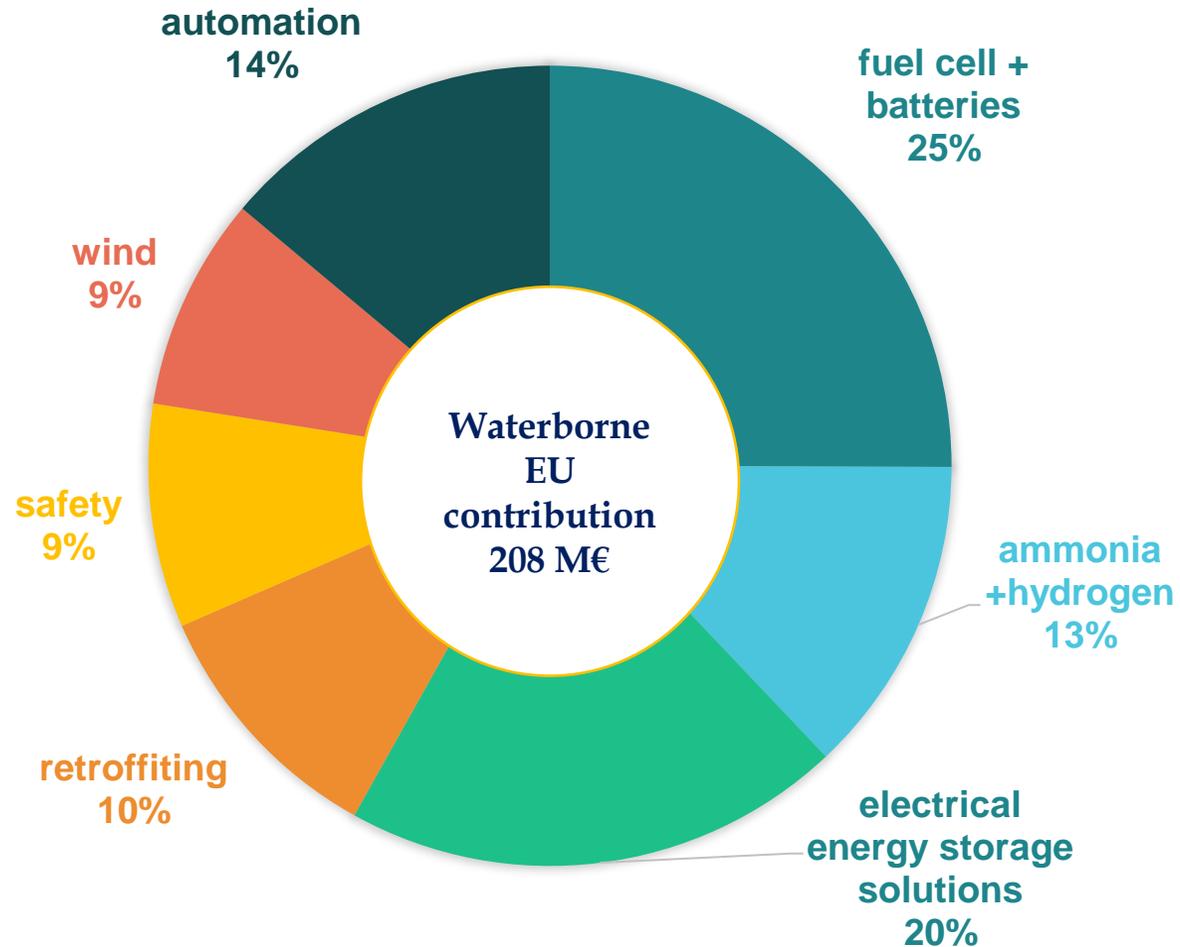
Transport R&I at CINEA - Overview (Horizon 2020)



- Infrastructure
- Innovative shipbuilding and complex value-added specialised vessels
- New and improved waterborne transport concepts
- Energy efficient and zero emission vessel
- Safer and more efficient waterborne operations

> 60 projects
> 980 beneficiaries

Transport R&I at CINEA - Overview (Horizon Europe)



31 projects so far
440 participants

Overview of CINEA's waterborne portfolio of R&I projects: focus on shipyard projects

Shipyards and shipbuilding in Horizon programme

- Focus on competitiveness projects (shipyards; materials; design). Objectives to preserve competitiveness and reinforce shipbuilding sector; target high value ship market segment (ie offshore vessels; roro; ferries) but also conventional and repair.
- Greening/climate change and digitalisation are major drivers of Horizon Europe.
- Structure of R&I topics is not prescriptive (ie topic 2023) to match the needs of stakeholders.
- Shipyards are often essential partners in high TRL projects to implement innovative solutions. Either retrofit or new built.
- Fully dedicated topics on shipyards are regularly implemented ensuring a permanent portfolio of projects.

Shipbuilding related projects



IT tools for ship modelling and building



Numerous high TRL tests for new materials for shipbuilding



Ship design optimization methods



Fibre-Reinforced Polymers for ship structure



Modular ferry shipbuilding + 1 full scale built



IT platform for vessel design and building

Shipbuilding related projects

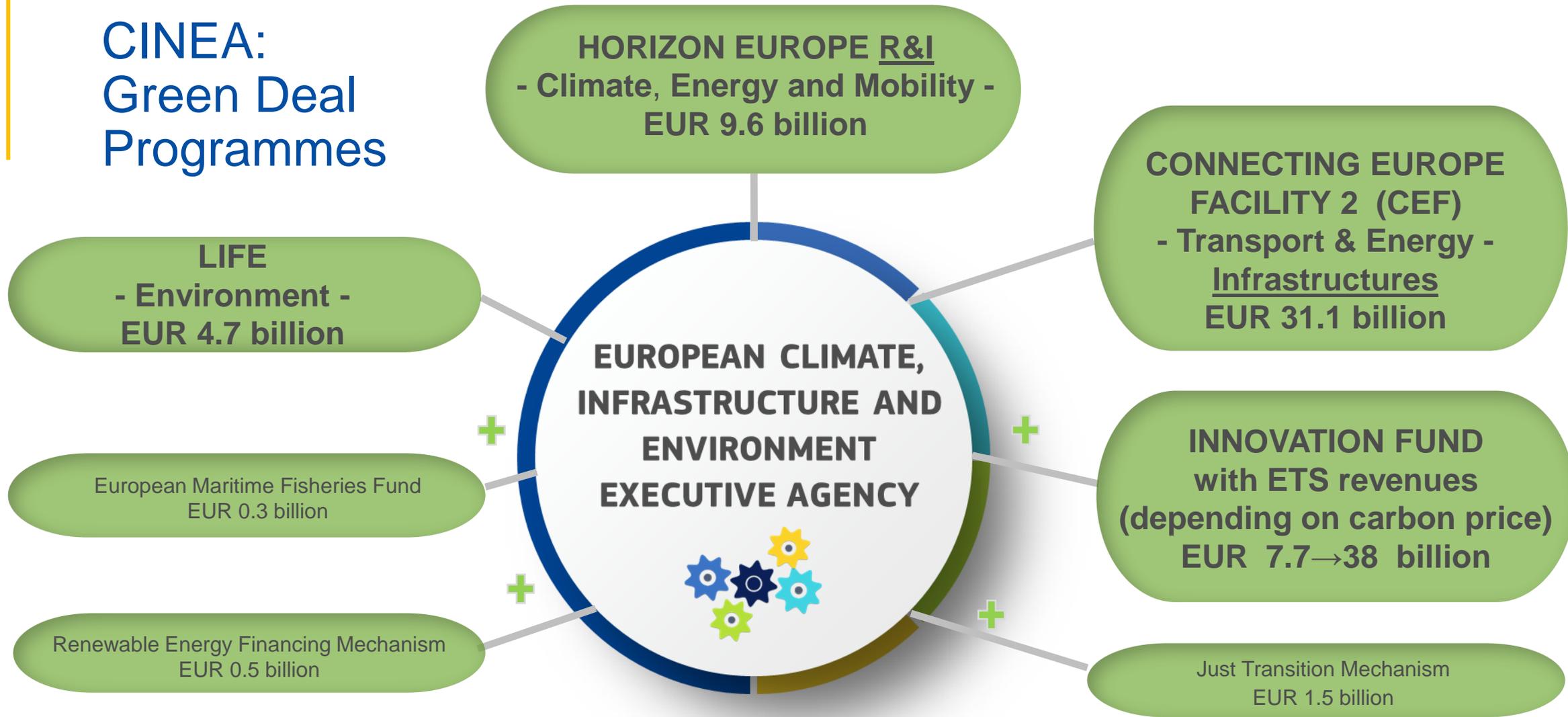


SEUS

- 2023-2026. 8,5M€.
- Building the smartest EU shipbuilding expertise
- Integrated platform that combines the most modern shipbuilding life-cycle management with computer-aided design, manufacturing, engineering and product data software.

Synergies with other EU programmes and future funding opportunities

CINEA: Green Deal Programmes



18



> 500 staff

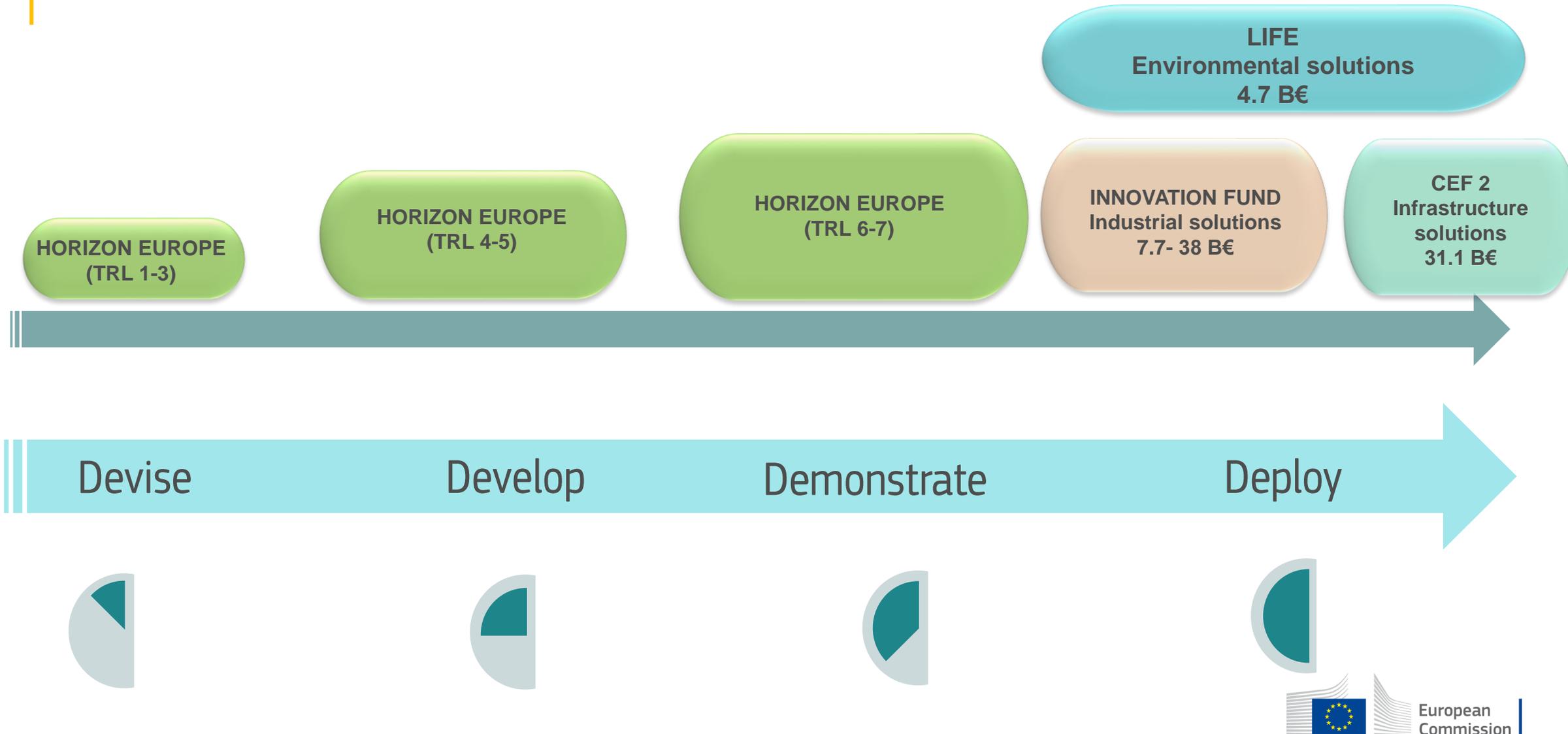


From 2800+ projects managed in 2021 to > 4500 projects in 2027

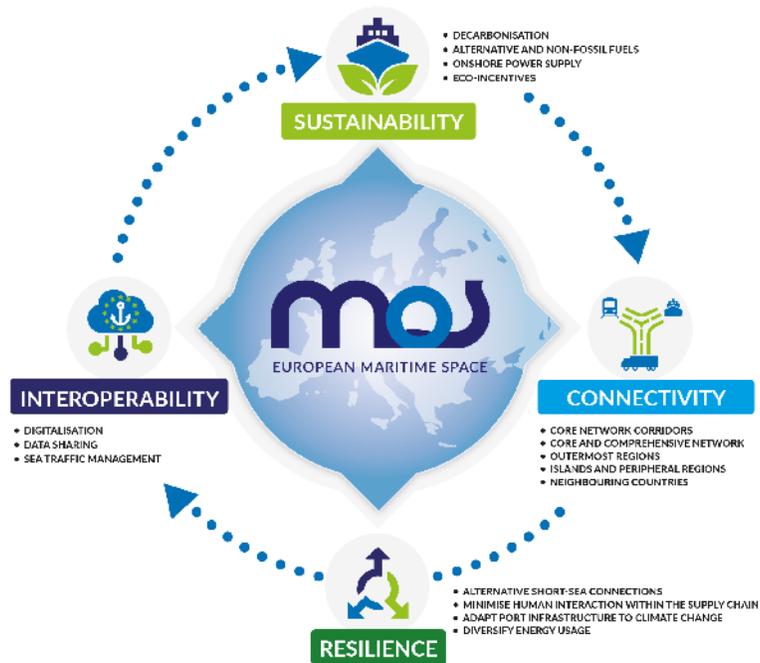


> 55.4 billion (2021-2027)

Synergies between programmes to deliver solutions

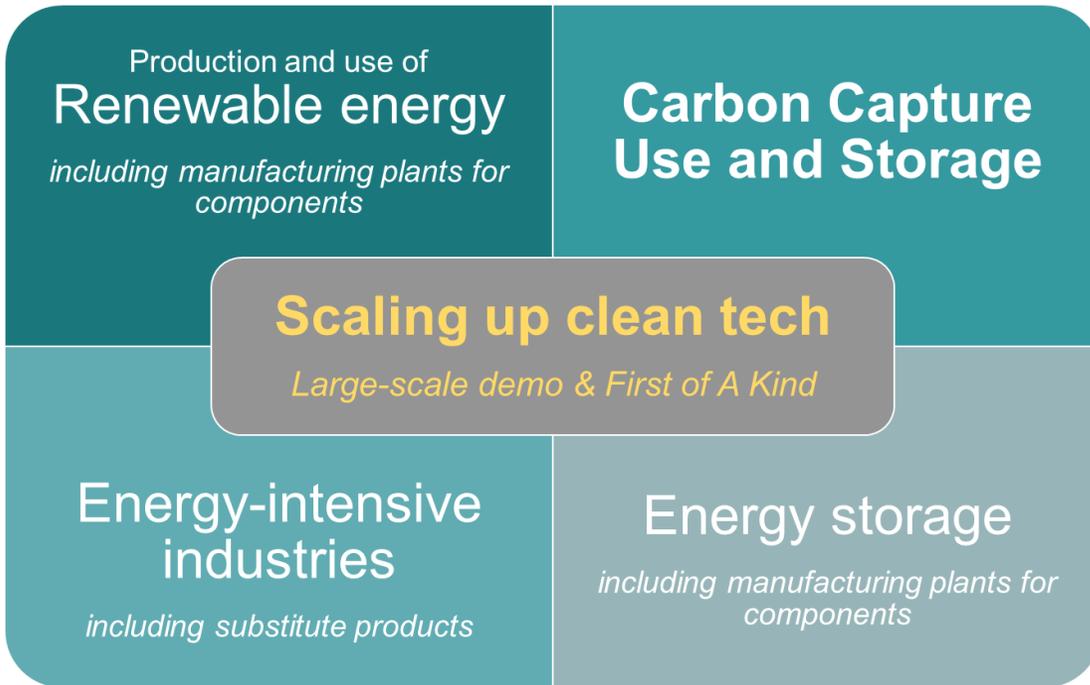


Connecting Europe Facility (CEF2) and its waterborne perspective



- **Alternative Fuels Infrastructure Facility:** Recharging/refuelling infrastructure; Maritime and IWW Vessels, LNG bunkering vessels
- **Motorways of the Sea:** Upgrade of port infrastructure, Facilitation of Short Sea Shipping through ICT platforms
- **Maritime and Inland Ports:** Facilitation of port access, Shore-side electricity supply, Rail/road connections within the port
- **European Maritime Single Window environment (EMSWe)**
- **Vessel Traffic Monitoring and Information Systems (VTMIS)**
- **River Information Services (RIS),** inland single window, inland port community systems

Innovation Fund and its waterborne perspective



Some examples of waterborne related projects:

- **FirstBio2Shipping:** producing bio-LNG that substitutes carbon intensive marine fuel (funded).
- **HYDROGEN EUROPAX:** Zero-emission vessel powered by a large-scale fuel cell system will exclusively use green hydrogen from renewable sources (in PDA).
- **WAVE:** Large sailing cruise ship featuring an innovating wind propulsion technology (in PDA).

Next Calls for proposals

- Launch of small scale call on 30/03/2023
- Call deadline on 19/09/2023
- Expected results in January 2024
- Large scale call just closed. Next one in 2024

European Maritime, Fisheries and Aquaculture Fund (EMFAF) and its waterborne perspective



Project: Airseas

- Wind propulsion
- Ship stabiliser

- More sustainable **fishing and aquaculture** practices
- Support the growth potential of the **blue economy**
- Protect **marine ecosystems**



Project: Bound4Blue

- Onshore Power Supply
- Retrofit fuel

In Maritime transport, EMFAF supports Seabasin Strategies with a high interest on:

- Green shipping in the Western Mediterranean Region
- Ports in the Atlantic Region

14 waterborne related projects funded for a total €24M in 12 EU countries



EIC PATHFINDER

early-stage technology research	€350 million
grants	< €4 million



Deadline 18 October 2023



EIC TRANSITION

technology validation and spin-out	€131 million
grants	< €2.5 million



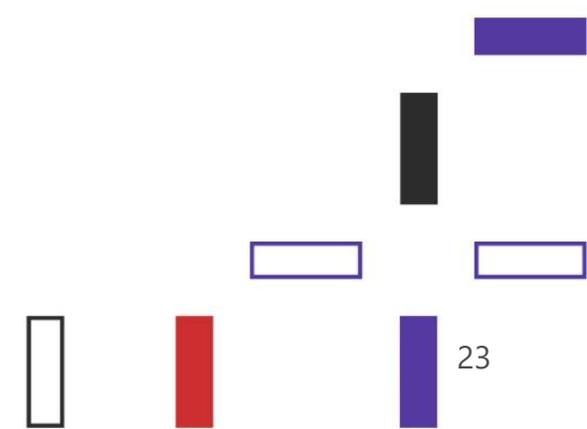
Deadline 27 September 2023

EIC ACCELERATOR

commercialisation and scale-up	€1.16 billion
grants	< €2.5 million
equity investments	< €15 million

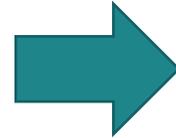


Deadline 7 June 2023



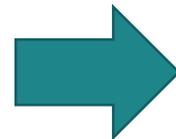
Where to apply?

EIC Pathfinder



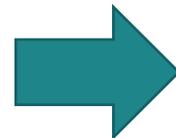
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EIC Transition

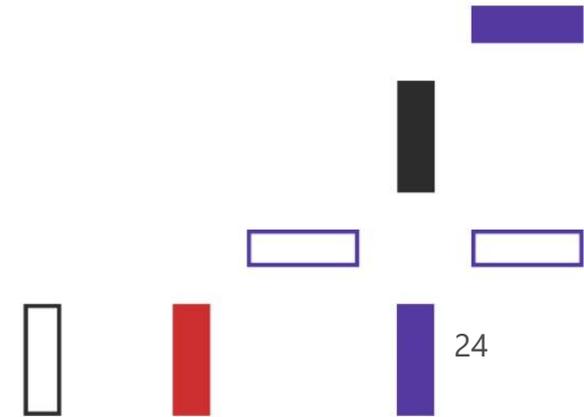
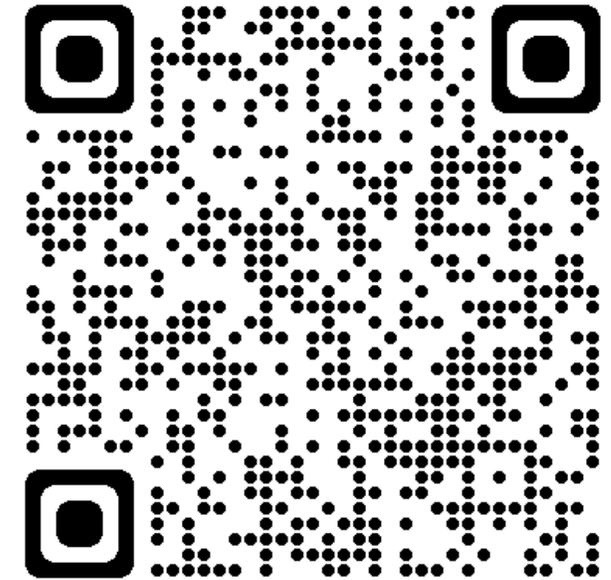


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EIC Accelerator



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GREEN ASSIST

The expert advice to make your investment **greener**



GREEN ASSIST offers:



Cost-benefit analysis, review of business model, financial structuring and planning, environmental due diligence, procurement support, etc.



Capacity building



Market studies & Market development activities

For projects addressing:

**Environmental
&
Non-Environmental
sectors**



**Does my project qualify?
How to apply?**



Horizon Europe

waterborne: topics with shipyard opportunities

Currently under evaluation: topic HORIZON-CL5-2023-D5-01-15 Reducing the environmental impact from shipyards and developing a whole life strategy to measure and minimise the non-operational environmental impacts from shipping. 2 projects expected to be funded with 4,5M€ each.

Waterborne transport	Deadline April 2024	Shipyard relevance
HORIZON-CL5-2024-D5-01-12	Combining state-of-the-art emission reduction and efficiency improvement technologies in ship design and retrofitting for contributing to the "Fit for 55" package objective by 2030 (ZEWT Partnership)	+++
HORIZON-CL5-2024-D5-01-13	Demonstration of Technologies to minimise underwater noise generated by waterborne transport (ZEWT Partnership)	+
HORIZON-CL5-2024-D5-01-15	Advanced digitalisation and modelling utilizing operational and other data to support zero emission waterborne transport (ZEWT Partnership)	++

Conclusions

Conclusions

- CINEA stands by the side of the waterborne sector to implement projects helping to reach the green deal objectives
- CINEA manages numerous programmes of relevance for the sector, so please don't hesitate to contact us to explore the best funding opportunity for your project and build a pipeline of projects towards market deployment
- Shipyards will continue to be part of the Horizon Europe programme.
- Shipyards and equipment manufacturers are strong players to push the sector to take the green shift.

Keep in touch - CINEA



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