



Horizon Europe and the maritime transport sector

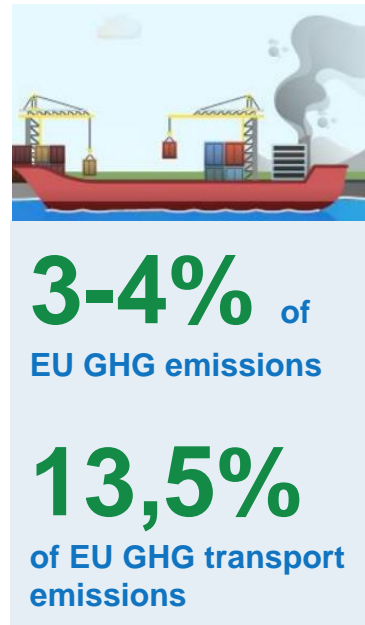
DG RTD.C3

1 February 2024



The maritime transport sector

A strategic sector with significant environmental impact



The Fit-for-55 package and maritime transport

Fit for
55

Why targeting maritime transport emissions?

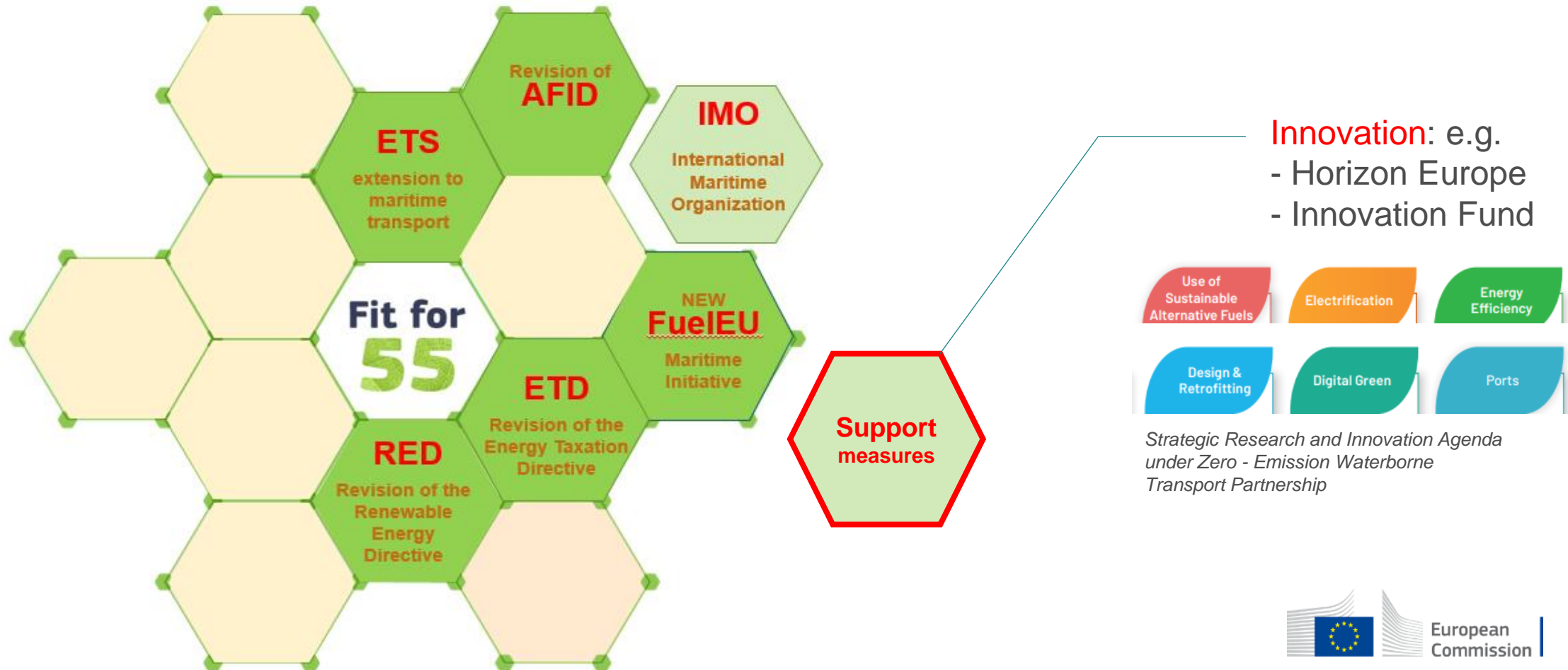
- **All sectors need to contribute**, including maritime transport
- Maritime transport is a **substantial CO2 emitter** (3-4% of EU CO2 emissions) and emissions have increased, and with that also their share of global and EU emissions
- **Lack of adequate measures** in place at EU or global level

How to reduce emissions?

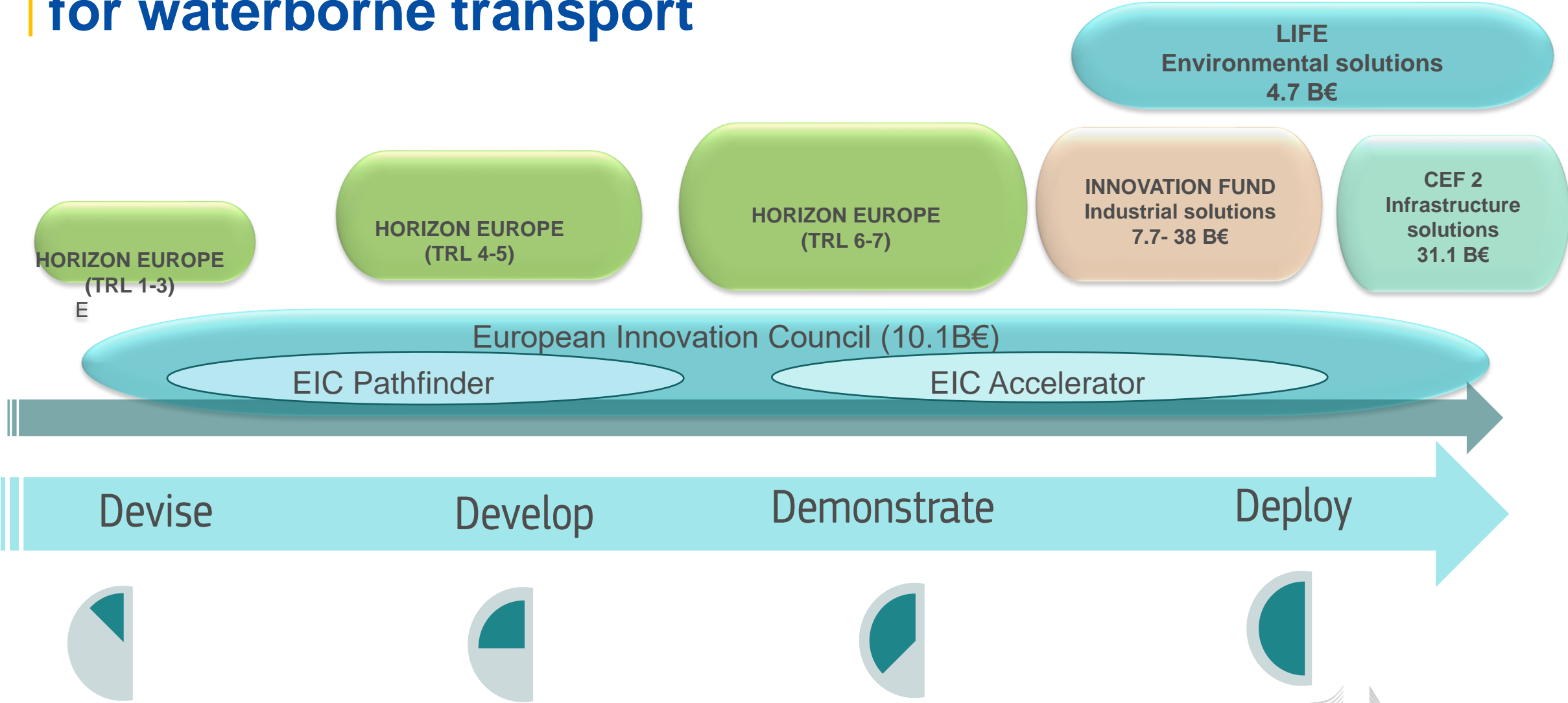
- The decarbonisation of the sector requires:
 - **Improving energy efficiency** – i.e. using less fuel
 - **Greater use of renewable and low carbon fuels** – i.e. using cleaner fuels
 - **Economic incentives** for cleaner activities – tilt the level playing field.

A basket of measures to address GHG emissions from shipping

pricing, targets, standards and support measures

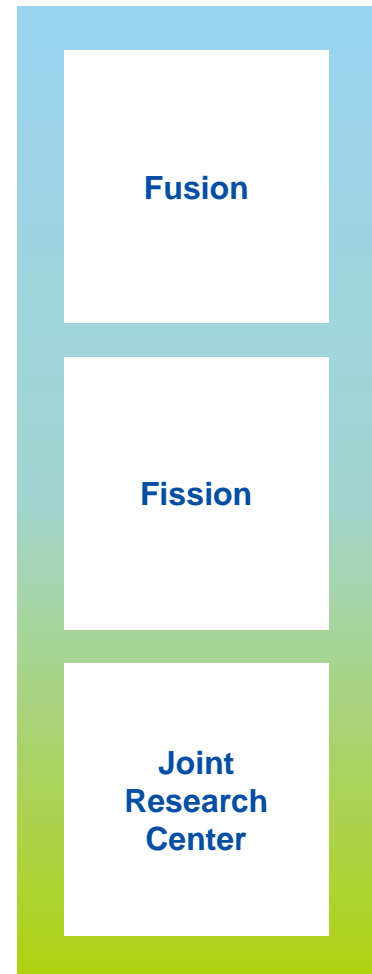
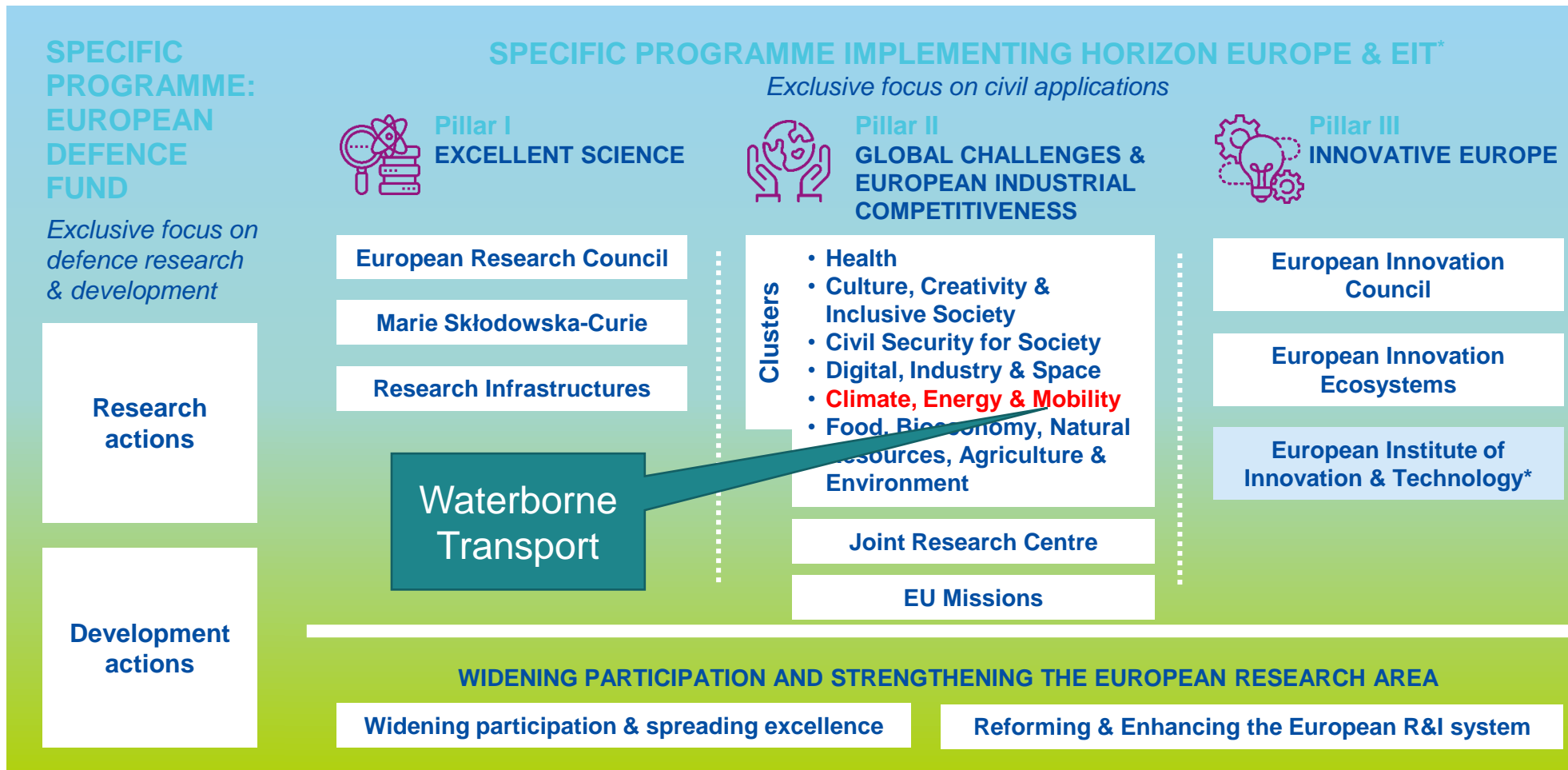


Synergies between EU programmes to deliver solutions for waterborne transport



HORIZON EUROPE 2021-27 €95.5 billion

EURATOM



* The European Institute of Innovation & Technology (EIT) is not part of the Specific Programme

Cluster 5	Climate, Energy & Mobility	€15.123 billion (including €1.35 billion from NGEU)
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Overview of European Partnerships

HORIZON EUROPE PILLAR II - Global challenges & European industrial competitiveness

CLUSTER 1: Health	CLUSTER 4: Digital, Industry & Space	CLUSTER 5: Climate, Energy & Mobility	CLUSTER 6: Food, Bioeconomy, Agriculture, ...
Innovative Health Initiative	Key Digital Technologies	Clean Hydrogen	Circular Bio-based Europe
Global Health Partnership	Smart Networks & Services	Clean Aviation	Rescuing Biodiversity to Safeguard Life on Earth
Transformation of health systems	High Performance Computing	Single European Sky ATM Research 3	Climate Neutral, Sustainable & Productive Blue Economy
Chemicals risk assessment	European Metrology (Art. 185)	Europe's Rail	Water4All
ERA for Health	AI-Data-Robotics	Connected and Automated Mobility (CCAM)	Animal Health & Welfare*
Rare diseases*	Photonics	Batteries	Accelerating Farming Systems Transitions*
One-Health Anti Microbial Resistance*	Made in Europe	Zero-emission waterborne transport	Agriculture of Data*
Personalised Medicine*	Clean steel – low-carbon steelmaking	Zero-emission road transport	Safe & Sustainable Food System*
Pandemic Preparedness* <i>Co-funded or co-programmed</i>	Processes4Planet	Built4People	
	Global competitive space systems**	Clean Energy Transition	
		Driving Urban Transitions	

- Institutionalised Partnerships (Art 185/7)
- Institutionalised Partnerships / EIT KICs
- Co-Programmed
- Co-Funded

* Calls with opening dates in 2023-24
 ** Calls with opening dates not before 2022

PILLAR III - Innovative Europe

EIT (KNOWLEDGE & INNOVATION COMMUNITIES)	SUPPORT TO INNOVATION ECOSYSTEMS
InnoEnergy	Innovative SMEs
Climate	
Digital	
Food	
Health	
Raw Materials	
Manufacturing	
Urban Mobility	
Cultural and Creative Industries	

CROSS-PILLARS II & III

European Open Science Cloud

Horizon Europe – Waterborne Transport

EU Budget:

- **Partnership: €530 M**
- Collaborative R&I
€100 M + other parts of
the program

**Private side
commitment:
€ 3.3 Bn**



Public

Private

European Commission:

- DG RTD
- DG MOVE
- DG CLIMA

Waterborne Technology Platform

>120 members representing entire sector
(classification societies, shipbuilders, shipowners,
maritime equipment manufacturers, infrastructure
and service providers, universities or research
institutes)

<https://www.waterborne.eu/>

Zero-emission waterborne transport partnership

Objectives:

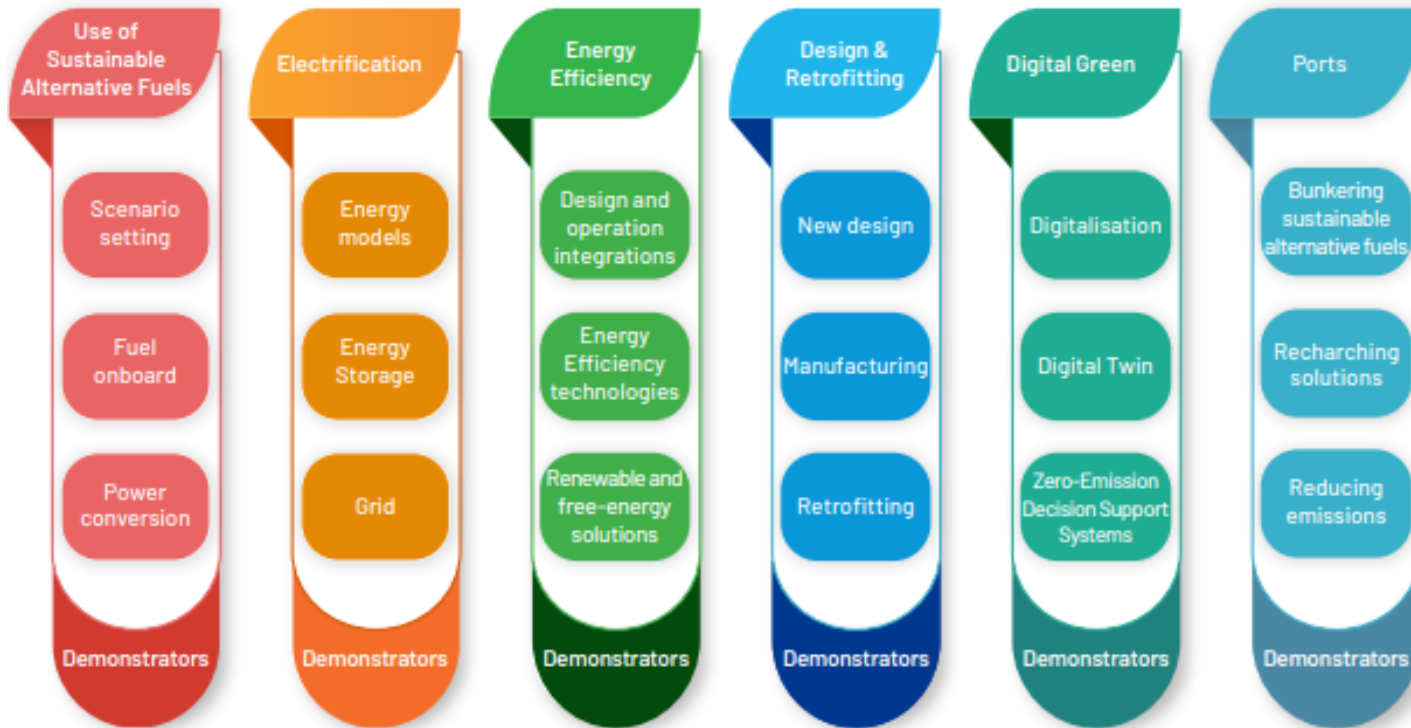
Using R&I to develop and demonstrate zero-emission solutions for all main ship types and services by 2030 which will enable zero-emission waterborne transport by 2050.

Eliminating **GHG emissions** from new ships and retrofitted existing ships by means of sustainable alternative climate-neutral fuels, renewable energies, electrification and energy efficiency.

Cutting coastal and inland pollution to air by at least 50% compared to current levels

Elimination of pollution to water (including harmful underwater noise) from ships

Zero-Emission Waterborne Transport Partnership Strategic R&I Agenda



Waterborne Transport - Horizon Europe

Zero Emission Waterborne Transport Partnership

- On board integration

Clean Hydrogen Joint Undertaking

- Technology building blocks for various applications

Co-programmed partnership Batteries4EU

- Battery technologies for various applications

EU Mission: Climate-Neutral and Smart Cities

- Port cities

EU Mission: Restore our Ocean and Waters

- Shipping Contribution to Blue Economy

Questions & Answers



Source: job-hunt.org

Thank you



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