



# Waterborne Transport



# HORIZON EUROPE

“Opportunities for EU support for  
Waterborne transport”

Gabriel Mialocq

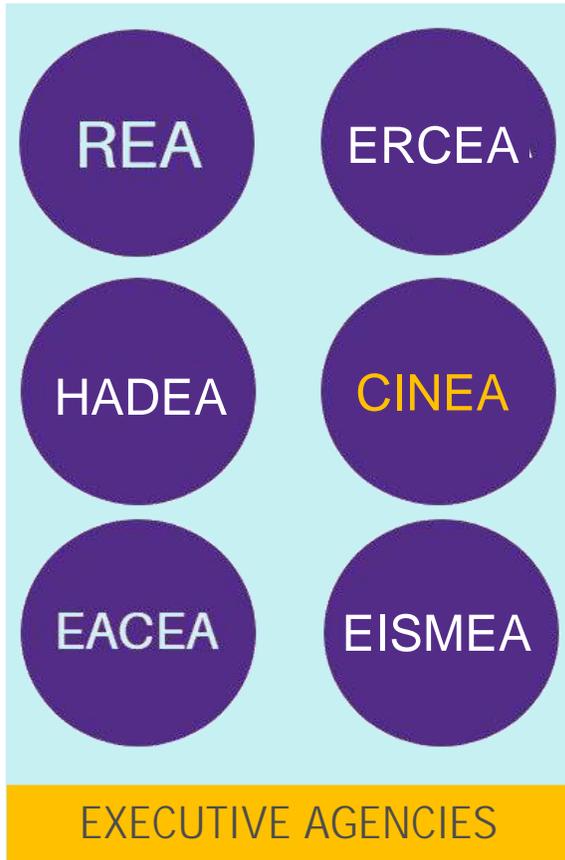
Head of Sector C.3 Clean Transport Industry CINEA

Georgios Charalampous

Project Officer: C.3 Clean Transport Industry CINEA

SMM 2022 Fair, Hamburg

# EU institutions



# The European Climate Infrastructure and Environment Executive Agency (CINEA)



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



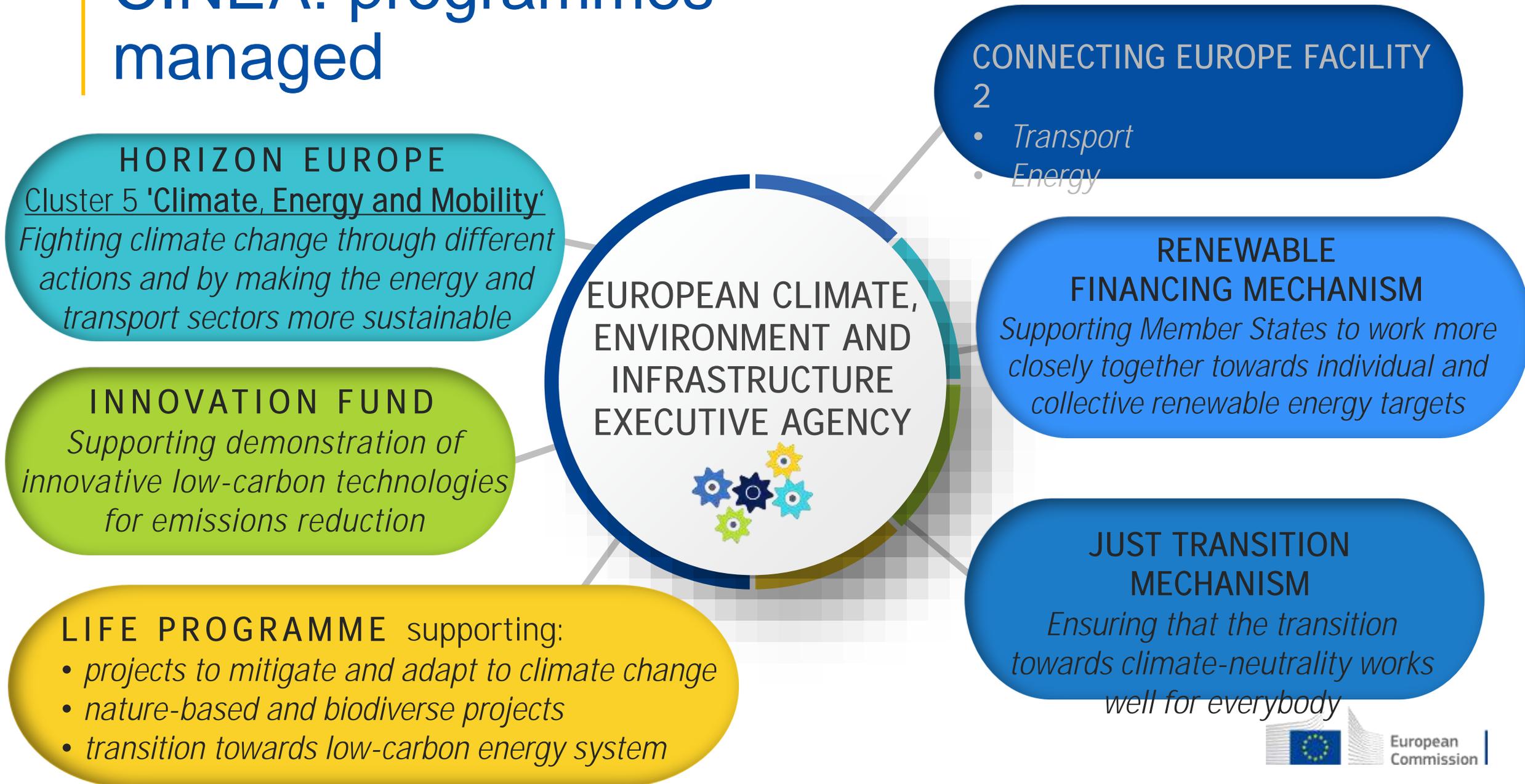
> **500 staff** by 2027



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

# CINEA: programmes managed



# CINEA

## The H2020 Waterborne portfolio

### 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)

**Safer and more efficient waterborne operations**  
Safer and more efficient waterborne operations through new technologies and smarter traffic management ([EfficienSea2](#), [LYNCEUS2MARKET](#))  
Response to oil spills and marine pollutions ([GRACE](#))  
Safer waterborne transport and maritime operations ([SEDNA](#))

Marine Accident Response ([LASHIRE](#), [SAFEPASS FLARE](#), [PALAEMON](#))  
Human Factors in Transport Safety ([SAFEMODE](#))

#### Infrastructure

The Port of the future ([FOXEL](#), [PortForward](#), [CORREALIS](#), [DocksTheFuture](#))  
Green airports and ports as multimodal hubs for sustainable and smart mobility ([PIONEERS](#), [MAGPIE](#))

#### Innovative shipbuilding and complex value-added specialised vessels

System modelling and life-cycle cost optimisation for waterborne assets ([SHIPFLYS](#), [HOLUSHIP](#))  
Development, production and use of high performance and lightweight materials for vessels and equipment ([FIBRESHIP](#), [RAMSESSE](#))  
High value-added specialised vessel concepts enabling more efficient servicing of

emerging coastal and offshore activities ([LINCOLN](#), [NEXUS](#))  
Complex and value-added specialised vessels ([HYSEASIII](#), [TRAM](#), [NAVAIS](#))  
Improved Production and Maintenance Processes in Shipyards ([MerH\\_YARD](#), [FIBRE4YEARS](#), [RESURGAM](#))

#### New and improved waterborne transport concepts

Preparing for the future innovative offshore economy ([MARIBE](#))  
Delivering the sub-sea technologies for new services at sea ([DexROV](#), [BRIDGES](#))  
New and improved transport concepts in waterborne transport ([GASVESSEL](#), [NOVIMAR](#))  
Unmanned and autonomous survey activities at sea ([ENDURUNS](#))  
The Autonomous Ship ([AUTOSHIP](#))  
Moving Freight by Water: Sustainable Infrastructure and Innovative Vessels ([IW-NET](#), [NOVIMOVE](#), [AEGIS](#), [MOSES](#))

#### Energy efficient and zero emission vessel

Towards the energy efficient and emission free vessel ([E-FERRY](#), [LeanShips](#), [HERCULES-2](#))  
Promoting innovation in the Inland Waterways Transport (IWT) sector ([PROMINENT](#))  
Innovations for energy efficiency and emission control in waterborne transport ([AIRCOAT](#), [HYMETHSHIP](#))  
InCo flagship on reduction of transport impact on air quality ([SCIPPER](#))  
Ship emission control scenarios, marine environmental impact and mitigation ([EMERGE](#))  
Retrofit Solutions and Next Generation Propulsion for Waterborne Transport ([Nautilus](#), [FASTWATER](#), [GATERS](#), [SeaTech](#))  
Structuring R&I towards zero emission waterborne transport ([STEERER](#))  
Under water noise mitigation and environmental impact ([SATURN](#))  
Improving impact and broadening stakeholder engagement in support of transport research and Innovation ([LASTING](#), [PLATINA 3](#))  
Decarbonising long distance shipping ([CHEK](#), [ENGIEMONIA](#))

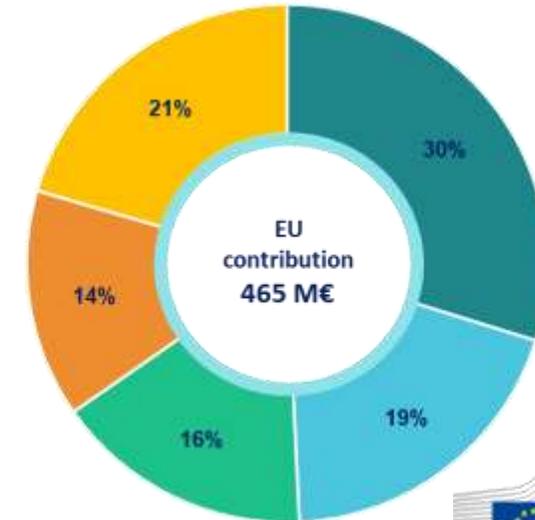
FROM 3 MULTIANNUAL WORK PROGRAMMES (2014-2021, 18-1772018-20)

OVER €465M EU CONTRIBUTION

28 TOPICS

56 PROJECTS

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



H2020 WATERBORNE PORTFOLIO (2014-2021)

# CINEA

## Horizon Europe - state of play



- 4 Calls evaluated (15 waterborne related research topics)
  - 2021 and 2022 - D5: Clean and competitive solutions for all transport modes
  - 2021 and 2022 D6: Safe, Resilient Transport and Smart Mobility services for passengers and goods
- 28 Projects started or under Grant Agreement Preparation (200Mil EU funding)
  - *Alternative fuels*
  - *Energy efficiency on-board*
  - *Electrification*
  - *Digitalisation*
  - *Safety*

- **Fighting climate change**
- **Make the energy and transport sectors more sustainable**

### **Strategic Policy Framework for Waterborne Transport:**

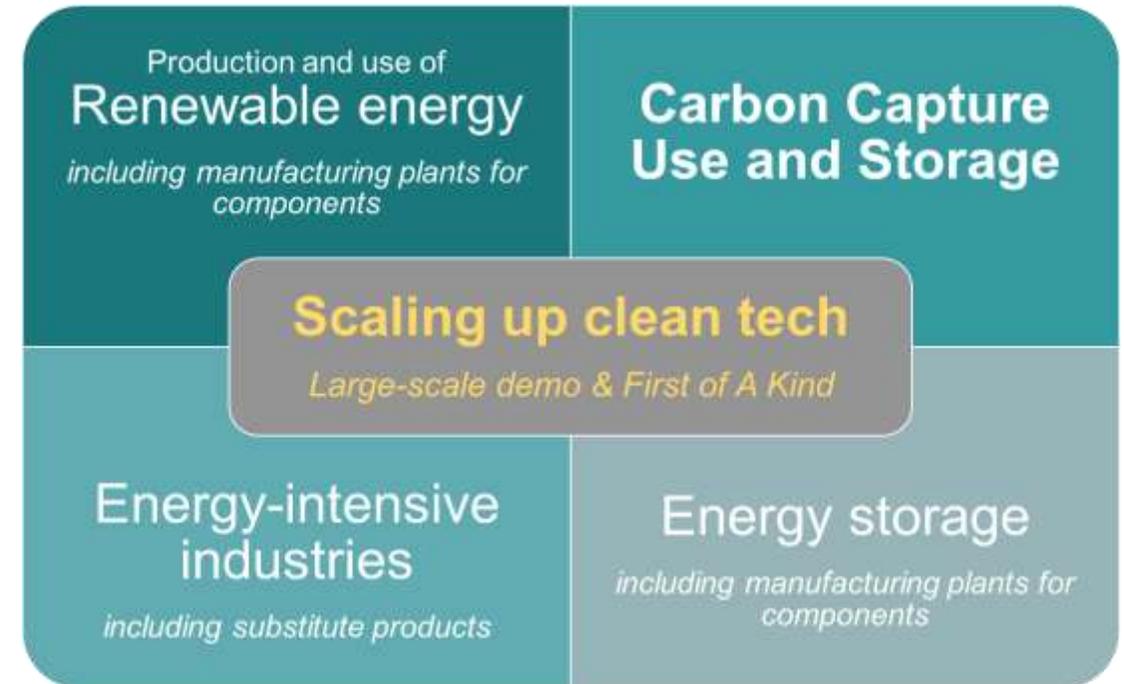
*To accelerate the transition towards zero emission waterborne transport whilst exploiting opportunities from digitalisation and increasing the competitiveness of the European Waterborne transport sector within global markets.*

# Innovation Fund and its waterborne perspective



INNOVATION FUND  
programme

- The Innovation Fund will provide around EUR 38 billion of support from 2020 to 2030, depending on the carbon price, for the commercial demonstration of **innovative low-carbon technologies**, aiming to bring to the **market industrial solutions to decarbonise Europe** and support its transition to climate neutrality.
- CINEA currently manages **7 large-scale projects (total grants of around €1 billion)** and 30 small-scale projects (total grants of around €100 million).
- Example of eligible projects:
  - ships propelled by renewable energy (for example hydrogen or wind-assisted propulsion) and
  - ports meeting their energy needs by switching to renewable sources (for example port energy system based on photovoltaic solar energy).

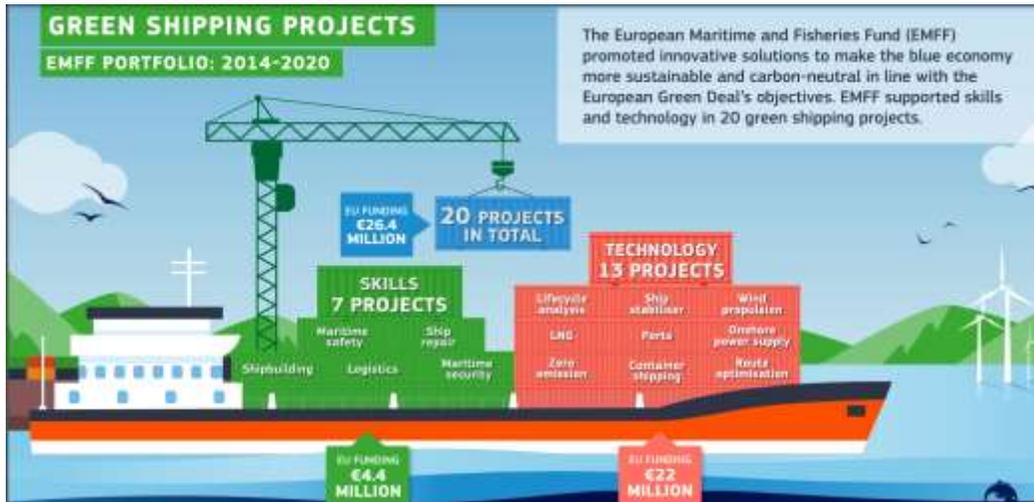


# Connecting Europe Facility (CEF2) and its waterborne perspective



- **Alternative Fuels Infrastructure Facility:** Recharging/refuelling infrastructure; Maritime and IWW Vessels, energy bunkering vessels (electricity; H2...). Open call (1,5bn€) with several cut of dates (next November 2022)
- **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

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



20 waterborne related projects funded under 2014-2020 for a total €26,4M. Check their stories [here](#)

## EMFAF:

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

## Seabasin Strategies with a high interest on:

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

# Forthcoming Funding opportunities

## Horizon Europe

- Work Programme 2023-2024 under finalisation
- Budget for waterborne: Expected 160mil
- Next Call:
  - Launch: **December 2022**
  - Deadline **April 2023**
- Areas covered
  - *Alternative carbon neutral fuels*
  - *Electrification*
  - *Digitalisation-Automation*
  - *Underwater noise abatement*
  - *New Business models for decarbonisation*

## Innovation fund

### Large Scale Demonstrators 2023

Launch: **November 2022**

Deadline: **March 2023**

Results: **Q3 2023**

Budget: expected EUR 3 bn

### Small Scale Demonstrators 2023

Launch: **Q2 2023**

Deadline: **Q3 2023**

Results: **Q4 2023**

Budget: expected EUR  
100 million

# Forthcoming Funding opportunities

## CEF 2

Alternative Fuels Infrastructure Facility (AFIF) Calls:

Areas covered:  
Recharging/refuelling infrastructure (electricity, H2 and LNG), Maritime and IWW Vessels (electric and H2), LNG bunkering vessels, LNG storage

Open Call with several submission deadlines:

**10 November 2022,**

**13 April 2023,**

**19 September 2023.**

Budget: **€1,575 billion**

## EMFAF

Blue careers and Regional flagships call:

Launch: **October 2022**

Deadline: **April 2023**

Budget: **€13 mil**

**[INFODAY on 24<sup>th</sup> November 2022:](#)**  
**[Blue careers and Regional flagships call](#)**



# CLUSTER 5 Climate, Energy, Mobility

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## Application best practices for Horizon Europe



# Tip 1: Be ambitious and realistic

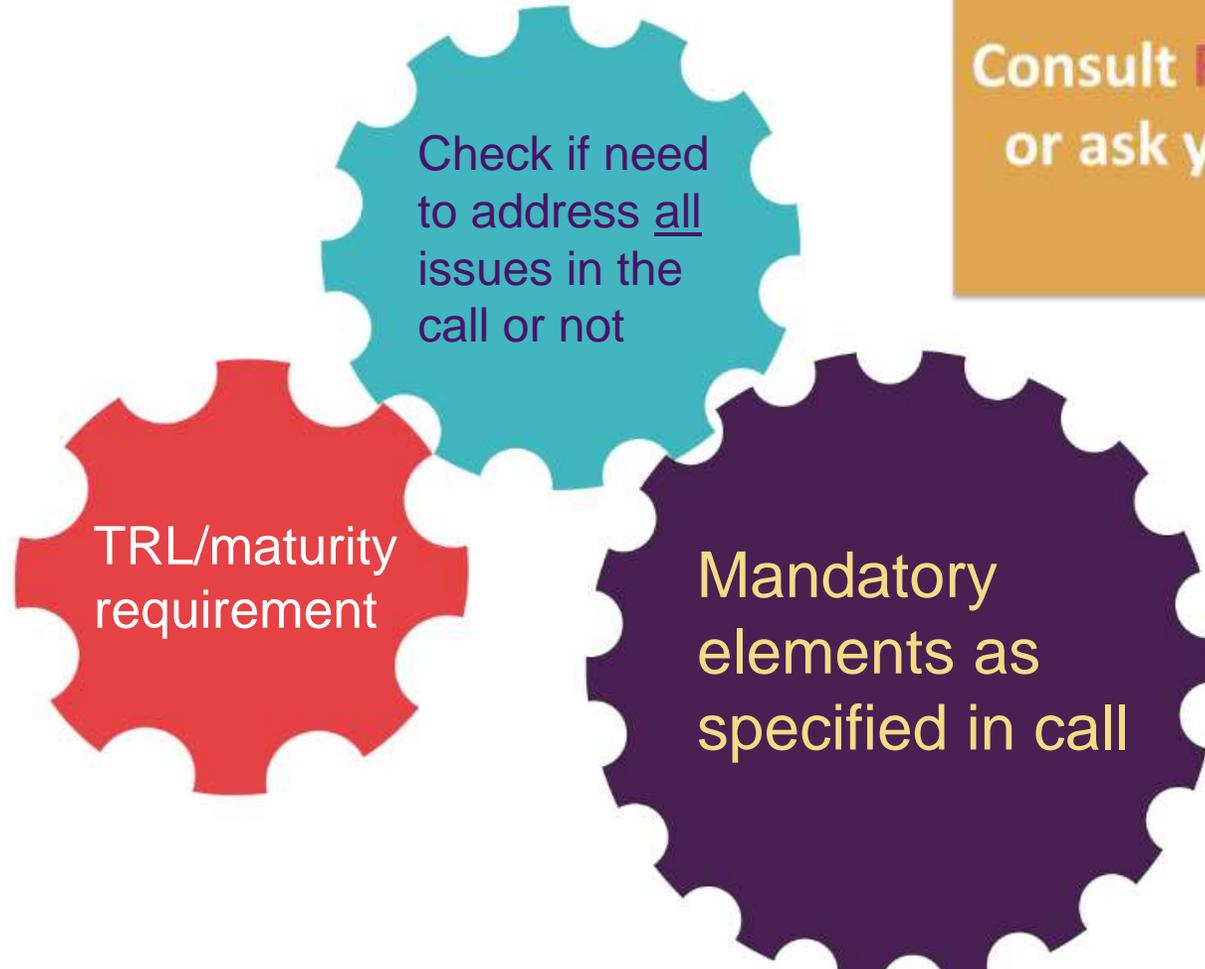
## 1. Calls are very competitive

- for a single stage call success rate is ~35%

## 2. Ambition, progress beyond State of the art and methodology:

- Clear and pertinent objectives. Explain well how will you meet the requirements of the topic
- Is the proposed work ambitious and goes beyond State of the art? Is it realistic within the project work frame?

## Tip 2: Understand call conditions and text



Consult **FAQ's** in good time –  
or ask your own **question!**

# Tip 3: Define your outcomes and impacts



- **Outcomes** Expected effects of the projects results, over the medium term.
- **Impacts** Wider, long term effects on society, economy and science, enabled by the outcomes of R&I investments.

## Tip 4: Build an effective work plan & good project team

Effective work plan;  
risks & mitigation  
measures

Resource allocation is in  
line with Work Plan

Partners have sufficient  
capacity, a clear and justified  
role in the project

Industrial/business/users  
participation

## Tip 5: Simple to digest

Use graphics

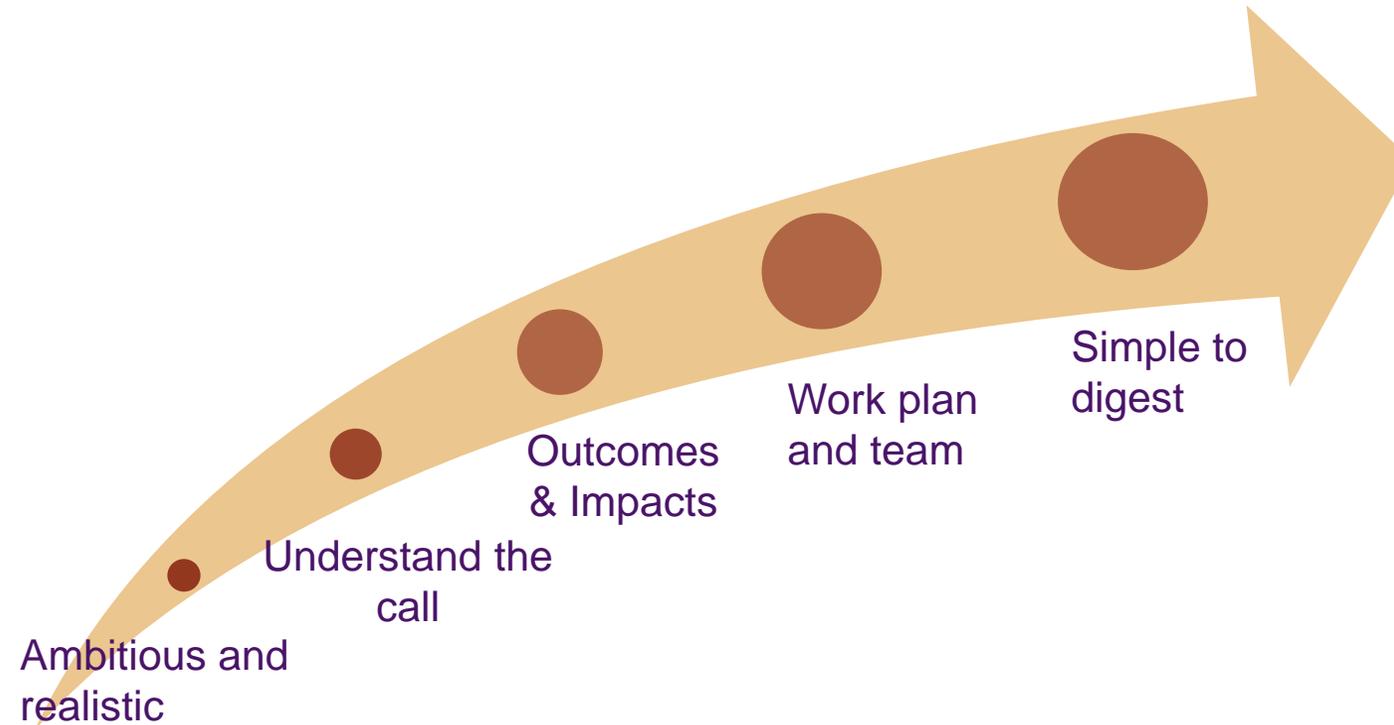
Easy to follow

No tiny fonts  
or tight line spacing

Respect page limits

Easy language for non-native English speakers...

# 5 steps to success



# We're looking for new experts!

**Not  
applying?**

**Become an  
evaluator!**

**Sign up now**



The screenshot shows the top navigation bar of the European Commission's 'Funding & tender opportunities' website. On the left, there is the European Commission logo and the text 'European Commission | Funding & tender opportunities | Single Electronic Data Interchange Area (SEDIA)'. On the right, there are links for 'English EN', 'Register', and 'Login'. Below this is a dark blue navigation bar with a home icon and menu items: 'SEARCH FUNDING & TENDERS', 'HOW TO PARTICIPATE', 'PROJECTS & RESULTS', 'WORK AS AN EXPERT' (highlighted with a red circle), and 'SUPPORT'. On the far right of this bar, there is a 'select programme' dropdown menu.

# Check all necessary information on-line

- [Funding and Tenders Portal](#) – One single portal for all Programmes
- [CORDIS](#) – Projects funded by the EU
- [Horizon Europe \(HE\)](#)– The research and innovation funding programme until 2027

## Check the CINEA Programmes on-line

- [HE Cluster 5: Climate, Energy and Mobility](#) – The dedicated cluster for research and innovation in transport and energy
- [Innovation fund](#) - Funding demonstration of innovative low-carbon technologies.
- [CEF 2: Funding Infrastructure for alternative fuels](#)
- [EMFAF](#): Funding sustainable blue economy

# What to remember...

- CINEA and its programmes are here to implement the Green Deal and help you innovate and go green
- For low TRLs look into the **Horizon Europe (HE)** programme
- For higher TRLs and more mature technologies look into the **Innovation Fund (IF)**
- Have a concrete idea and necessary good representation of business partners and users in projects to ensure market uptake.
- Calls for all programmes to be launched in **Q4-2022!**

*So stay tuned on the funding and tender portal and CINEA's website!*

# Keep in touch - CINEA



[cinea.ec.europa](http://cinea.ec.europa)



[@CINEA\\_EU](https://twitter.com/CINEA_EU)



[CINEA - European Climate, Infrastructure and Environment Executive Agency](#)



[CINEATube](#)



# Thank you



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