

HORIZON EUROPE

Finding Relevant Calls 2023-2024



What is Horizon Europe?

- **Horizon Europe** is the key funding programme for research & innovation in Europe
- The aim is to fund key projects that help Europe reach its climate goals, improve competitiveness as well as achieve the UN's Sustainable development goals
- For **OUR** industry- you may **ALREADY** be working to cut emissions, move to greener alternatives, increase use of AI and competitive systems
 - You may already be aligned with projects that **could** gain funding via Horizon Europe
- In this report we introduce you to the important people, the partnerships and organisations that can help **YOU** and your **COMPANY** get involved with **HORIZON EUROPE** and potentially access **MILLIONS!**



Horizon Europe 2021-2027

Budget Euro 95.5 billion



Pillar 1

- Excellent Science
- European Research Council
- Marie Skłodowska-Curie Actions
- Research Infrastructures



Pillar 2

- Global Challenges & European Competitiveness
- Health
- Culture
- Civil Security
- Digital, Industry & Space
- Climate, Energy & Mobility
- Food & Agriculture



Pillar 3

- Innovative Europe
- European Innovation Council
- European Innovation Ecosystems
- European Institute of Innovation & Technology

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Part 5: Recap Horizon Europe

Part 1: In Discussion with Horizon Europe National Contacts



- France- **Jean-Marc Zaccardi**, Horizon Europe France National Contact for Transport



- United Kingdom- **Louise Mothersole**, Horizon Europe UK National Contact for Mobility

National Contact Points for Horizon Europe

The network of **National Contact Points (NCPs)** is the main structure to provide guidance, practical information and assistance on all aspects of participation in Horizon Europe. NCPs are also established in many non EU and non-associated countries ("third countries").





In conversation with Horizon Europe France National Contact for Transport, Jean-Marc Zaccardi



Jean-Marc Zaccardi
Horizon Europe
France, National
Contact for
Transport

Jean-Marc Zaccardi: “In most cases, it is mandatory to apply with a consortium. There are only very few calls for mono-beneficiary applications. Calls for proposals within Cluster 5 of the second pillar of Horizon Europe are aimed at consortia.”

Question 1: What would your strategy be for ECG members to understand more about the relevant calls under Horizon Europe? Would you suggest they contact organisations?

Jean-Marc Zaccardi: “First of all, I would suggest they contact the **European Technology Platform (ETP) ALICE (Alliance for Logistics Innovation through Collaboration in Europe)** to seize the overarching European objectives and to further elaborate the future of European logistics that will be implemented through Horizon Europe and other European programmes.

I would also suggest contacting the **ETP Waterborne**, and the associated partnership **Zero Emission Waterborne Transport (ZEWT)**, to know how the research and innovation needs in waterborne transport are addressed in Horizon Europe.

Similarly, I would suggest contacting the Europe’s Rail Joint Undertaking regarding rail freight transport.”



In conversation with Horizon Europe France National Contact for Transport, Jean-Marc Zaccardi....cont'd

Would you suggest they talk to certain people? –if so who?

Jean-Marc Zaccardi: “I would suggest they talk to their national contact points and programme committee members to better understand what is expected from Horizon Europe calls (from a technical point of view, and also regarding the eligibility and the evaluation of proposals). These contact persons will also help your members to collect information on the relevant stakeholders in their own countries and enhance their networking activities. The list of national contact points is available here: <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/support/ncp>

Would you suggest anything else?

Jean-Marc Zaccardi: “First, I would suggest to clearly identify your needs and to define your strategy, and not to apply for EU funding if the calls do not correspond to your strategic objectives. Keep in mind that Horizon Europe projects are pluriannual projects (around 36 months to 42 months on average), so they really must be in line with your internal objectives as you will have to make a long-term effort.

I would also strongly recommend to network as much as possible. Knowing your potential partners, and being known among the relevant stakeholders, will be very useful when you will have to build a consortium. Networking activities might include information dissemination (website, social media), active participation to events (conferences, workshops, etc.), active participation to various bodies (such as associations, European Technology Platforms, partnerships, etc.), and to brokerage events that are regularly organized by the NCPs or by the EEN (Europe Enterprise Network) for instance.”



In conversation with Horizon Europe France National Contact for Transport, Jean-Marc Zaccardi....cont'd

Question 2: Please could you give us a couple of examples of successful Horizon Europe projects involving European logistics players?

Jean-Marc Zaccardi: “Several projects have already been funded from 2021 and 2022 calls of Horizon Europe, such as **FOR-FREIGHT** or **MultiRELOAD** projects regarding efficient and effective multimodal freight transport. More information on these projects can be found on the **CORDIS platform**, and previous projects can also be identified thanks to the **Horizon Dashboard** or even on some national database, such as **scanR** in France. All these databases can provide basic information on on-going projects, but also help in identifying potential partners.”

Question 3: For players in the FVL sector what would your message be for them to work with/find relevant Horizon Europe initiatives that they could be a part of?

Jean-Marc Zaccardi: “I would encourage them to keep an overview, as far as possible, on the calls for proposals in different clusters of Horizon Europe as well as on calls in other programmes such as **Connecting Europe Facility** as a wide variety of themes could be relevant for the ECG members such as safety, digitalisation, or even transport infrastructures, alternative renewable fuels distribution, or even electric charging facilities.”

Links:

Cordis: <https://cordis.europa.eu>

Horizon Dashboard: <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/horizon-dashboard>

scanR: (<https://scanr.enseignementsup-recherche.gouv.fr/>)



In conversation with Horizon Europe UK National Contact for Mobility, Louise Mothersole



Louise Mothersole,
Horizon Europe
UK National
Contact for
Mobility

What would your strategy be for ECG members to understand more about the relevant calls under Horizon Europe that might be ones they could get involved with? Would you suggest they contact some organisations? –if so which ones?

Louise Mothersole: “The **Alliance for Logistic Innovation through Cooperation in Europe (ALICE)** is a European Technology Platform and part of their role is to represent the views of the sector across Europe to the European Commission who create the Horizon Europe work programme. Membership of, or just awareness of, ALICE would give applicants the opportunity to better understand the requirement behind the different calls and also an opportunity to meet potential consortium partners.”

Would you suggest they talk to certain people? –if so who?

Louise Mothersole: “Part of the National Contact Point role is to have those conversations with interested organisations and we are always happy for our contact details to be shared. You can see all of the **National Contacts for Mobility part of Horizon Europe** on the [EU’s funding and tender opportunities portal](#) and we would all welcome enquiries from potential applicants (you can see my email is listed here too).”



In conversation with Horizon Europe UK National Contact for Mobility, Louise Mothersole...cont'd

Would you suggest anything else?

Louise Mothersole: “It is always very useful to look at projects that have been done previously/recently in Horizon Europe and this can be done by searching Cordis. Filtering and searching using the words ‘Logistics’ and ‘Vehicle’ returns 201 results in the Horizon 2020 programme (the predecessor to Horizon Europe) and 20 results in the Horizon Europe programme (which has only been going for two years). Clicking on each of these link takes one to a summary page for each project that has a brief description and then lists the project partners. One can also contact the project partners directly through the ‘contact the organisation’ button beneath each. This is a good way to find consortium partners that have an obvious advantage – they have won funding previously and so know what is required to do so.”

As the National Mobility Contact Point for Horizon Europe in the UK—please could you give us some examples of the projects you have been involved in?

Louise Mothersole: “National Contact Points are not allowed to be part of projects other than those that are concerned with supporting activities, therefore I have no recent experience of being part of a Horizon Europe technology development project. The role of the NCP is to help applicants to succeed and as such we are neutral.”



In conversation with Horizon Europe UK National Contact for Mobility, Louise Mothersole...cont'd

For players in the finished vehicle logistics sector—what would your message be for them to work with/find relevant Horizon Europe initiatives that they could be a part of?

Louise Mothersole: “They should consider becoming a member of the **Towards Zero Emission Road Transport (2ZERO)** Co-Programmed Partnership. This association proposes the calls and topics to the European Commission in the area of vehicle technologies and so works closely with ALICE. Other than a small administrative team, the association is made up of members of the road transport and automotive sector and **2ZERO** and **ALICE** combined are a very powerful body.”

Links:

National Contact Points:

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/support/ncp;sortQuery=country;countryGroups=MS,AC,PAC,3C;countries=;functions=11>

Cordis:

[https://cordis.europa.eu/search?q=contenttype%3D%27project%27%20AND%20programme%2Fcode%3D%27H2020%27%20AND%20\(%27logistics%27%20AND%20%27vehicle%27\)&p=1&num=10&srt=Relevance:decreasing](https://cordis.europa.eu/search?q=contenttype%3D%27project%27%20AND%20programme%2Fcode%3D%27H2020%27%20AND%20(%27logistics%27%20AND%20%27vehicle%27)&p=1&num=10&srt=Relevance:decreasing)

UK position regarding Horizon Europe

<https://www.gov.uk/government/news/government-extends-horizon-europe-financial-safety-net--2>



Part 2: Organisations, Partnerships & People to connect with

- **ALICE**
 - **Fernando Liesa, Secretary General, Alliance for Logistic Innovation through Cooperation in Europe (ALICE)**
- **Maritime**
 - **Agnieszka Zaplatka, Policy Officer, Waterborne Transport**
 - **Guilhem Gaillarde, NEw sustainable fuel Deployment Scenarios for Europe (NEEDS)**
- **Rail**
 - **Giorgio Travini, Head at Europe's Rail Joint Undertaking**
 - **Cliona Cunningham, Head of Communications, Community of European Railway & Infrastructure Companies (CER)**
- **Road**
 - **Xavier Aerstens, Director, European Road Transport Research Advisory Council (ERTRAC)**
 - **Lucie Beaumel, Director, Towards Zero Emission Road Transport (2Zero)**



In conversation with Fernando Liesa, Secretary General, Alliance for Logistic Innovation through Cooperation in Europe (ALICE)



Question: What would your recommendation be for ECG members who are interested in understanding more about relevant open calls under Horizon Europe?

Fernando Liesa: “It may require time and resources to create a good understanding how Horizon Europe programmes work and how to make they can be valuable for your company. It is unlikely you get value if you approach this from an opportunistic point of view.

- Are you ready to go there?
 - If yes:
 - Be ready to **participate in relevant networks** to position in the ecosystem (e.g. **ALICE**).
 - Consider working with a consultant company that can help you in your journey.
- There are several companies that have worked on this and are regular participants so there is a way to make it work and valuable! (e.g. P&G, Colruyt, Codognotto, Gruber...)
- Understand this is for open innovation actions with the objective to increase the readiness of the company for certain innovations but most probably not enough to test them in operations.
- Horizon Europe calls are a tool as part of the own company R&I activity and it is hard to make it work in isolation although it can be a big lever. Companies usually position this as part of their open innovation and/or public funding/affairs offices.”

Fernando Liesa,
Secretary
General,
ALICE

In conversation with Fernando Liesa, Secretary General, Alliance for Logistic Innovation through Cooperation in Europe (ALICE)...cont'd

The Alliance for Logistic Innovation through Cooperation in Europe (ALICE) is well established as a platform for logistics players in Europe:

- Would you suggest ECG members to directly get in touch with ALICE to understand which calls you are already working on?

Fernando Liesa: “Sure, as long as they are ready for that and they want to take their time and work as part of ALICE membership. ALICE has some open activities and can also get exposed to this environment through them.”

- Would you suggest any particular upcoming events hosted by ALICE that ECG members should register to participate in to help them understand and possibly participate in Horizon Europe projects?

Fernando Liesa: “Unfortunately, the brokerage event was held only a couple of weeks ago and the next one will be end of this year. I would recommend them to go and visit **TRA in Ireland so they get an onsite flavour of the scope, projects and interest. (www.traconference.eu) More important is that they understand this is not opportunistic.”**

- Does ALICE cover logistics in all segments: i.e. Road, Rail & Maritime?

Fernando Liesa: “Yes, we are also connected with the modal technology platforms and we try to influence modal developments to be of the interest to logistics companies and shippers.”

- Are there any other organisations you would suggest which specifically follow Horizon Europe projects in the different modes?

Fernando Liesa: “From technology development (e.g. new vehicles, barges, etc. there are other platforms) there are platforms per transport mode: **ERTRAC, **ERRAC**, **WATERBORNE** and partnerships **2ZERO** for zero emissions road transport, **CCAM** for automated transport... etc. **ALICE** is unique in getting the shippers, transportation and logistics companies as the main goal.”**



In conversation with Fernando Liesa, Secretary General, Alliance for Logistic Innovation through Cooperation in Europe (ALICE)...cont'd

- How can we at ECG help our members strengthen awareness of ALICE and the potential pathway to learn more about Horizon Europe?

Fernando Liesa: “An idea would be to form a group of interested companies in this that could “fund” ECG secretariat hours to create that link and translate the overall ALICE landscape into concrete interest areas for members and the other way round.”

- Anything else?

Fernando Liesa: “ALICE works with its members to define good recommendations and priorities for the programmes and we support shaping the Horizon Europe Calls. ALICE has a good overview of the opportunities far before they are opened and consortiums are started to be formed quite a lot of time in advance.



The European Technology Platform ALICE is set-up to develop a comprehensive **industry lead** strategy for research, innovation and market deployment of logistics and supply chain management in Europe.

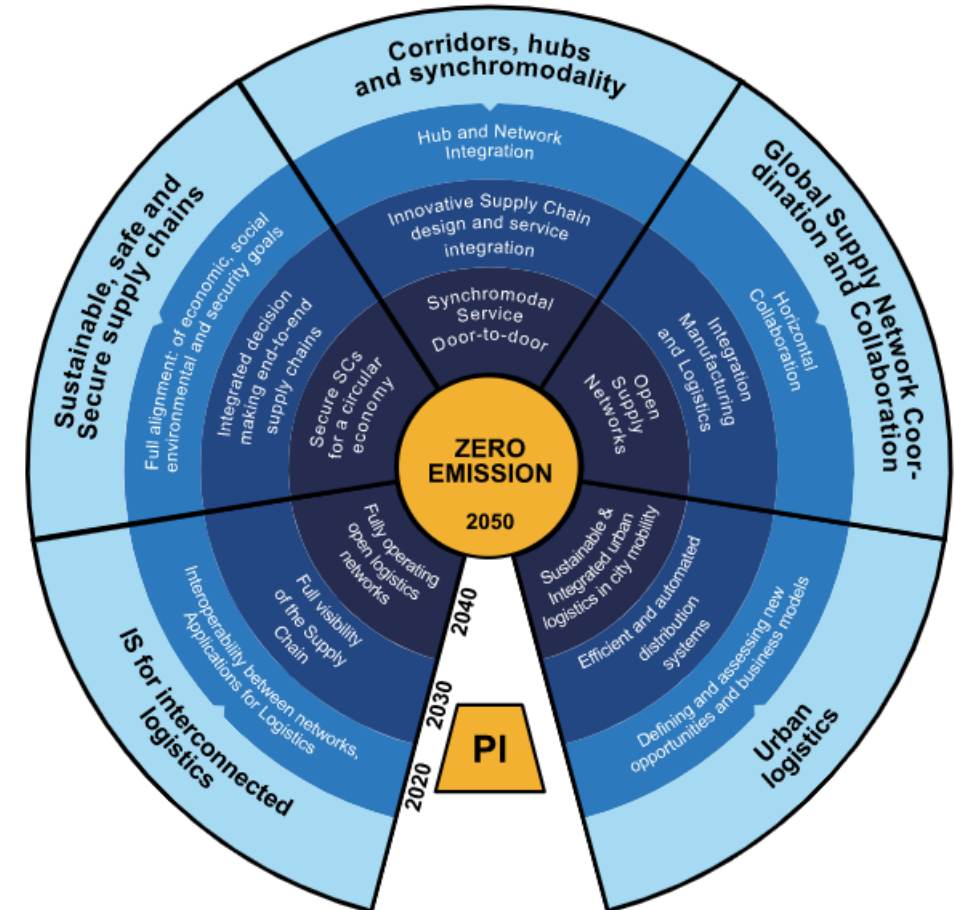
Leading experts and **companies** in implementing supply chain and logistics innovation form ALICE aiming at transitioning in an affordable way towards Zero Emissions transport & logistics operations.

ALICE supports, assists and advise the European Commission in the implementation of the EU Programs for research: **Horizon 2020** and **Horizon Europe**.

ALICE is based on the recognition of the need for an overarching view on logistics and supply chain planning and control, in which shippers and logistics service providers closely collaborate to reach efficient logistics and supply chain operations.

Vision

Future logistics, from global to urban, will be founded on a global open system of systems enabling assets and resources in logistics networks to be interconnected facilitating their use to the maximum capacity and productivity while increasing agility and resilience of supply chains. We call this vision the **Physical Internet (PI)** and it will support the affordable transition of assets towards **Zero emissions logistics**.





In conversation with Lucie Beaumel, Director, Towards Zero Emission Road Transport (2Zero)



Lucie Beaumel
Director,
2Zero

Question: Please could you explain a little about 2Zero?

Lucie Beaumel, Director, 2Zero: “The Towards zero emission road transport (2Zero) is a co-programmed Partnership funded under the Horizon Europe programme, aiming at accelerating the transition towards zero tailpipe emission. The 2Zero partnership covers all types of vehicles, from passenger cars, trucks and buses to two-wheelers and new vehicles concepts.

Its activities are organised around four strongly interconnected pillars:

- **Vehicle technologies and vehicle propulsion solutions for BEV and FCEV**
- **The integration of BEV into the energy system and related charging infrastructure**
- **Innovative concepts, solutions and services for the zero tailpipe**
- **LCA and circular economy approaches for sustainable and innovative road mobility solutions**

Although the scope of the 2Zero partnership is extended from a vehicle perspective to a system approach, the working methods and mindset developed are similar and based on the previously successful experiences of EGCI and EGVI.”

EGVI –European Green Vehicles Initiative 2014-2020
EGCI—European Green Cars Initiative 2009-2013



In conversation with Lucie Beaumel, Director, Towards Zero Emission Road Transport (2Zero)...cont'd

Question: Please could you explain how 2Zero finds relevant projects to focus on?

Lucie Beaumel, Director, 2Zero: “The 2Zero partnership promotes and facilitates pre-competitive research and innovation on road transport mobility within the European Research Area. By identifying the research needs to achieve the targets set in European transport, energy and environmental policies, the 2Zero partnership contributes to draft the path towards a climate-neutral European road transport system and will contribute to the acceleration of the necessary transition.

The 2Zero partnership is perfectly in line with the Green Deal, aimed at transforming the EU into a modern, resource-efficient and competitive economy, and with the related ‘Sustainable and Smart Mobility Strategy’, defining an Action Plan of initiatives that will guide the European Commission work for the upcoming four years.

Together, the European Commission services and the partners other than the Union (EGVIAfor2Zero) collaborate to identify research and innovation activities to be proposed for financial support under the Horizon Europe programme – the EU Framework Programme for Research and Innovation in the period 2021-2027. €615 million has been allocated to the partnership (2021 – 2027).



In conversation with Lucie Beaumel, Director, Towards Zero Emission Road Transport (2Zero)...cont'd

Question: Is this organisation open to individual companies to join?

Lucie Beaumel, Director, 2Zero: “Any stakeholder respecting the eligibility criteria of Horizon Europe can submit a proposal for the 2Zero partnership topics.

Membership in **EGVIAfor2Zero**, the non-for profit association engaged with the EC in the 2Zero partnership, whatever the concerned category, is open to legal entities fulfilling all the following criteria:

1. (i) Companies or institutions established in a Member State of the European Union or (ii) companies or institutions having their registered office, central or principal state of business within a State (a) which is a contracting party to the European Economic Area Agreement or (b) which is an Associated or Candidate Country to the European Union;
2. Companies or institutions with relevant activities in research & development, demonstration, industrialization or deployment of the technologies and services covered by the partnership
3. Companies or institutions sharing and supporting the objectives of EGVIAfor2Zero;
4. Companies or institutions committing to the Strategic Research and Innovation Agendas and roadmaps, and **being an active member of one of the European Technology Platforms (ETPs) supporting the 2Zero partnership (ERTRAC, EPoSS, ETIP SNET, ALICE and Batteries Europe)**, and possibly being a member of the ETPs, if legally constituted, or of one of the European associations involved in these ETPs;
5. Companies or institutions willing to actively contribute in projects of the European Framework Programme for Research and Innovation.

Being a member in EGVIAfor2Zero is not mandatory to submit a project.”





www.2zeroemission.eu



2Zero
Towards Zero emission Road
Transport

Partnership overview & Strategic
Research and Innovation Agenda

The **Strategic Research and Innovation Agenda (SRIA)** of the 2Zero partnership is the [reference document](#) for implementing the partnership.

<https://www.2zeroemission.eu/wp-content/uploads/2023/01/2Zero-SRIA-webversion-2022.pdf>

SRIA

STRATEGIC RESEARCH AND INNOVATION AGENDA



2ZERO PARTNERSHIP 2021-2027



ORGANISATIONS TO CONNECT WITH BY MODE:



**European Road
Transport Research
Advisory Council
(ERTRAC)**
Xavier Aerstens, Director
ERTRAC

**Towards Zero Emission
Road Transport (2ZERO)**
Lucie Beaumel, Director,
2ZERO

EARPA

**Zero Emission
Waterborne Transport
(ZEWT)**

**NEw sustainable fuel
Deployment Scenarios
for Europe (NEEDS)**

**Agnieszka Zaplatka
Policy Officer,
Waterborne Transport,
EU Commission**

**Europe's Rail Joint
Undertaking (EU-Rail) –
new name for Shift2Rail**
Giorgio Travaini, Head at
Europe's Rail Joint
Undertaking

XRail

Part 3: How to access funding

Horizon Europe: 5 Steps to get funding

- 1. Find an opportunity:** Look for 'Funding or Tender Opportunities' by clicking on Horizon Europe [Funding & Tenders \(europa.eu\)](#)
- 2. Find partner(s) :**To find 'partners', once you have chosen your topic under Funding & Tenders
 - a. Use the 'partner search' section on the page
 - b. For more help: [Manage your Partner Search Profile \(europa.eu\)](#)
- 3. Create an account:** Register for an EU Login account [Create an account \(europa.eu\)](#)
- 4. Register your organisation**
 - a. Register your organisation to get a 9-digit Participation Identification Code (PIC)
 - b. Use your EU login (Step 3) to then create your organisation login
 - c. Use this link to register your organisation [EU Login \(europa.eu\)](#)
- 5. Submit your proposal**
 - a. Select the topic you want to submit a proposal for
 - b. Go to 'Submission Service' section
 - c. If the status is 'Open' you can submit your proposal



Horizon Europe: 5 Steps to get funding

1. **Find an opportunity:** Look for 'Funding or Tender Opportunities' by clicking on Horizon Europe [Funding & Tenders \(europa.eu\)](https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/home):

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/home>

2. **Find partner(s)** :To find 'partners', once you have chosen your topic under Funding & Tenders

Use the 'partner search' section on the page

For more help: [Manage your Partner Search Profile \(europa.eu\)](https://webgate.ec.europa.eu/funding/display/ECResearchGMS/Manage+your+Partner+Search+Profile):

<https://webgate.ec.europa.eu/funding/display/ECResearchGMS/Manage+your+Partner+Search+Profile>



3. Create an account: Register for an EU Login account [Create an account \(europa.eu\)](https://webgate.ec.europa.eu/cas/eim/external/register.cgi) - <https://webgate.ec.europa.eu/cas/eim/external/register.cgi>

4. Register your organisation

Register your organisation to get a 9-digit Participation Identification Code (PIC)

Use your EU login (Step 3) to then create your organisation login

Use this link to register your organisation [EU Login \(europa.eu\)](https://webgate.ec.europa.eu/cas/login?loginRequestId=ECAS_LR-28420601-vlHBjE5uzH09AYamokXtKI5zyyEMssjoDdie0RqcsBNlvpZB4PapVXtxcTaMTKybMfHgHfzhnfux90pFMmUhX0-rS0vSrmBGYCBg73Y8nSUJO-zkQpfK42J6wY6gwUfAzY8mqkXY2Gzonq64nLV7Qbx7o1TDdGzTNdbCZDHNntzzHf8cdVN6ZSkbaZzwUx4LCwNo10):

https://webgate.ec.europa.eu/cas/login?loginRequestId=ECAS_LR-28420601-vlHBjE5uzH09AYamokXtKI5zyyEMssjoDdie0RqcsBNlvpZB4PapVXtxcTaMTKybMfHgHfzhnfux90pFMmUhX0-rS0vSrmBGYCBg73Y8nSUJO-zkQpfK42J6wY6gwUfAzY8mqkXY2Gzonq64nLV7Qbx7o1TDdGzTNdbCZDHNntzzHf8cdVN6ZSkbaZzwUx4LCwNo10

5. Submit your proposal

1. Select the topic you want to submit a proposal for
2. Go to 'Submission Service' section
3. If the status is 'Open' you can submit your proposal



Part 4: Relevant Open Calls for FVL -2023/24



EN

Horizon Europe

Work Programme 2023-2024

8. Climate, Energy and Mobility

(European Commission Decision C(2022)7550 of 6 December 2022)

**Horizon Europe
Cluster 5
2023
Destination D5
19 Calls**

**Horizon Europe
Cluster 5
2024
Destination D5
18 Calls**

**Horizon Europe
Cluster 5
2023
Destination D6
13 Calls**

**Horizon Europe
Cluster 5
2024
Destination D6
12 Calls**

**62 Calls potentially of
interest!**

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Open Calls	Budget	Type of Action
HORIZON-CL5-2023-D5-01-01: User-centric design and operation of EV for optimized energy efficiency (2ZERO Partnership)	EUR 4.00 to 5.00 million	Innovation
HORIZON-CL5-2023-D5-01-02: Innovative battery management systems for next generation vehicles (2ZERO & Batt4EU Partnership)	EUR 5.00 million	Innovation
HORIZON-CL5-2023-D5-01-03: Frugal zero-emission vehicles concepts for the urban passenger challenge (2ZERO Partnership)	EUR 7.00 to 12.00 million	Innovation
HORIZON-CL5-2023-D5-01-04: Circular economy approaches for zero emission vehicles (2ZERO Partnership)	EUR 12.00 million	Research & Innovation
HORIZON-CL5-2023-D5-01-05: Measuring road transport results towards 2ZERO KPIs (2ZERO Partnership) See Slide 28	EUR 1.00 million	Coordination & Support
HORIZON-CL5-2023-D5-01-06: EU Member States/Associated countries research policy cooperation network to accelerate zero-emission road mobility (2ZERO Partnership)	EUR 1.50 million	Coordination & Support
HORIZON-CL5-2023-D5-01-11: Developing the next generation of power conversion technologies for sustainable alternative carbon neutral fuels in waterborne applications (ZEWT Partnership)	EUR 8.00 million	Research & Innovation
HORIZON-CL5-2023-D5-01-12: Demonstrations to accelerate the switch to safe use of new sustainable climate neutral fuels in waterborne transport (ZEWT Partnership)	EUR 8.00 and 13.00 million	Innovation

- HORIZON-CL5-2023-D5-01-05: Measuring road transport results towards 2Zero KPIs (2ZERO Partnership)
- Budget EURO 1 million

Scope: In order to properly monitor the contribution of the different funded projects to the achievements of the 2ZERO partnership objectives, **a common framework for monitoring and assessment of the results needs to be agreed**, ultimately allowing their comparison and a proper evaluation of their cumulative benefits at an EU level.

Moreover, general objectives, such as a carbon-neutral road transport system by 2050, air quality, technology leadership, economic growth, European competitiveness, and circular economy aspects should be also addressed. In order to do so, proposals are expected to address all of the following aspects:

- Assess and measure results related to the specific partnership KPIs, how they are predicted to vary in the 2025 to 2035 period.
- Exploit the capabilities and techniques generated through the development and delivery of digital twin representations and of the results of the 2ZERO funded projects.
- Address at least the means of measuring all relevant parameters related to the 2ZERO KPIs: more generically, climate, air quality and circular economy aspects could also be quantitatively projected.

Open Calls	Budget	Type of Action
HORIZON-CL5-2023-D5-01-13: Integrated real-time digital solutions to optimise navigation and port calls to reduce emissions from shipping (ZEWT Partnership)	EUR 7.50 million	Innovation
HORIZON-CL5-2023-D5-01-14: Developing a flexible offshore supply of zero emission auxiliary power for ships moored or anchored at sea deployable before 2030 (ZEWT Partnership)	EUR 8.50 million	Innovation
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	EUR 4.50 million	Innovation
HORIZON-CL5-2023-D5-01-16: Developing small, flexible, zero-emission and automated vessels to support shifting cargo from road to sustainable Waterborne Transport	EUR 4.50 million	Research & Innovation
HORIZON-CL5-2023-D5-01-17: Towards the implementation of the inland navigation action programme with a focus on Green and Connected Inland Waterway Transport	EUR 1.50 million	Coordination & Support
HORIZON-CL5-2023-D5-01-18: Advanced transport emissions monitoring networks	EUR 5.00 million	Innovation
HORIZON-CL5-2023-D5-01-19: Support for the organisation of EU-US symposia in the field of Transport Research	EUR 0.50 million	Coordination & Support

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Open Calls—Road Transport	Budget	Type of Action
<p>HORIZON-CL5-2024-D5-01-01: Smart, low-cost pervasive stationary slow charging and bi-directional solutions synergic with the grid for EV mass deployment (2ZERO Partnership)</p>	<p>EUR 7.00 and 8.00 million</p>	<p>Innovation</p>
<p>HORIZON-CL5-2024-D5-01-02: Integration and testing of next generation post-800V electric powertrains (2ZERO Partnership)</p>	<p>EUR 4.00 and 6.00 million</p>	<p>Research & Innovation</p>
<p>HORIZON-CL5-2024-D5-01-03: Advanced battery system integration for next generation vehicles (2ZERO Partnership)</p>	<p>EUR 5.00 million</p>	<p>Research & Innovation</p>
<p>HORIZON-CL5-2024-D5-01-04: Integrated flexible multipoint megawatt charging systems for electric truck mass deployment (2ZERO Partnership) (2024)</p> <p>See Slide 32</p>	<p>EUR 7.00 and 8.50 million</p>	<p>Innovation</p>
<p>HORIZON-CL5-2024-D5-01-05: Advanced digital development tools to accelerate the development of software defined vehicles that enable zero-emission mobility (2ZERO Partnership)</p>	<p>EUR 4.00 and 5.00 million</p>	<p>Research & Innovation</p>
<p>HORIZON-CL5-2024-D5-01-06: New designs, shapes, functionalities of Light Commercial Vehicles (2ZERO Partnership)</p>	<p>EUR 10.00 million</p>	<p>Innovation</p>

- **HORIZON-CL5-2024-D5-01-04: Integrated flexible multipoint megawatt charging systems for electric truck mass deployment (2Zero Partnership) (2024)**
- **Budget: EUR 7.00 and 8.50 million**
- **Scope:** Next generation battery electric vehicles need to be more energy efficient and affordable, which means keeping battery size to the practical minimum. Megawatt charging is then required to meet the demand for long operational range with even shorter charging times. Ultra-high-power charging on-board and off-board sub-systems design is, as a first step, covered in topic HORIZON-CL5-2022-D5-01-08.
- **The present topic covers their evolution towards multi-charger hubs that cater for a widespread deployment of these vehicles on the 2030 horizon.** Limited on-board systems optimisation may be included if properly justified. At the same time each charger in these charging hubs will be usable for multiple lighter vehicles with lower power (150-350 kW) during peak times such as weekend or holiday periods, when demand from heavy duty vehicles may be lower. **This will also require concepts for topologies capable for accommodating one heavy vehicle or 4-6 light vehicles in each charging spot.**

Ways to
Work
together?

Lucie Beaumel, Director, 2Zero: “We have some topics to be opened on vehicle development in 2024. Perhaps one of our topics on charging could be interesting? ECG members could be one of the business cases to be investigated for--Integrated flexible multipoint megawatt charging systems for electric truck mass deployment...”

Open Calls-Waterborne Transport	Budget	Type of Action
HORIZON-CL5-2024-D5-01-11: Achieving high voltage, low weight, efficient electric powertrains for sustainable waterborne transport (ZEWT Partnership)	EUR 7.50 million	Research & Innovation
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) See slide 34	EUR 7.50 million	Innovation
HORIZON-CL5-2024-D5-01-13: Demonstration of Technologies to minimise underwater noise generated by waterborne transport (ZEWT Partnership)	EUR 6.00 million	Innovation
HORIZON-CL5-2024-D5-01-14: Demonstrating efficient fully DC electric grids within waterborne transport for large ship applications (ZEWT Partnership)	EUR 7.50 million	Innovation
HORIZON-CL5-2024-D5-01-15: Advanced digitalisation and modelling utilizing operational and other data to support zero emission waterborne transport (ZEWT Partnership)	EUR 7.70 million	Innovation
HORIZON-CL5-2024-D5-01-16: Structuring the Waterborne transport sector, including through changed business and industrial models in order to achieve commercial zero-emission waterborne transport (ZEWT Partnership)	EUR 0.85 million	Coordination & Support Action
HORIZON-CL5-2024-D5-01-17: Coordinating and supporting the combined activities of member and associated states towards the objectives of the Zero Emission Waterborne Transport partnership so as to increase synergies and impact (ZEWT Partnership)	EUR 1.50 million	Coordination & Support

- **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 (ZEWTP Partnership)**
- **Budget: EUR 7.50 million**
- **Scope: Legislative proposals within the EU's "Fit for 55" package targeting the reduction of waterborne transport emissions will assess emissions reductions based on operational data collected within the framework of the EU's MRV regulation. Internationally, for global maritime shipping, the forthcoming IMO Carbon Intensity Indicator and Data Collections System (DCS) will be used.**
- **Vessels visiting EU ports will need to provide data to ensure compliance with both MRV (EU) and DCS (IMO) data requirements.** This change from assessing emission reductions based on design to the direct measurement and verification of actual operational emissions requires a new approach to design. Consequently, the vessel design process will need to employ modelling and simulation techniques which take into account the vessel's expected operational profile and life cycle so as to ensure that the delivered vessel or modification will deliver the expected emission reductions in the "real world"

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Open Calls—Connected, Cooperative & Automated Mobility (CCAM)	Budget	Type of Action
HORIZON-CL5-2023-D6-01-01: User-centric development of vehicle technologies and solutions to optimise the on-board experience and ensure inclusiveness (CCAM Partnership)	EUR 4.00 million	Research & Innovation
HORIZON-CL5-2023-D6-01-02: Generation of scenarios for development, training, virtual testing and validation of CCAM systems (CCAM Partnership)	EUR 20.00 million	Research & Innovation
HORIZON-CL5-2023-D6-01-03: Infrastructure-enabled solutions for improving the continuity or extension of Operational Design Domains (ODDs) (CCAM Partnership)	EUR 6.00 million	Innovation
HORIZON-CL5-2023-D6-01-04: Integrating European diversity in the design, development and implementation of CCAM solutions to support mobility equity (CCAM Partnership)	EUR 3.00 and 4.00 million	Research & Innovation
HORIZON-CL5-2023-D6-01-05: CCAM effects on jobs and education, plans for skills that match the CCAM development, and prerequisites for employment growth (CCAM Partnership)	EUR 2.00 million	Research & Innovation



Open Calls-Multimodal Transport & Logistics	Budget	Type of Action
HORIZON-CL5-2023-D6-01-06: Zero-emission e-commerce and freight delivery and return choices by retailers, consumers and local authorities	EUR 3.00 million	Research & Innovation
HORIZON-CL5-2023-D6-01-07: Operational automation to support multimodal freight transport See slide 38	EUR 4.00 million	Research & Innovation
HORIZON-CL5-2023-D6-01-08: Future-proof GHG and environmental emissions factors for accounting emissions from transport and logistics operations	EUR 3.00 million	Coordination & Support Actions
HORIZON-CL5-2023-D6-01-09: Climate resilient and safe maritime ports See slide 39	EUR 7.00 million	Innovation
HORIZON-CL5-2023-D6-01-10: Better infrastructure safety on urban and secondary rural roads throughout a combination of adaptable monitoring and maintenance solutions	EUR 5.00 million	Research & Innovation
HORIZON-CL5-2023-D6-01-13: Support for dissemination events in the field of Transport Research	EUR 1.50 million	Coordination & Support



- **HORIZON-CL5-2023-D6-01-07: Operational automation to support multimodal freight transport**
- **Budget: EUR 4.00 million**
- **Scope: Automated vehicles, rolling stock and vessels, as well as related transshipment automated processes, are developed independently within the various transport modes and sectors. This creates gaps and disconnections in the actual use within the logistics operations, missing concrete new operational models and opportunities for end-to-end logistics, which may support adoption and contributing to system integration and decarbonisation.**
- **A high level of operational automation can be reached in terminals and hubs (e.g. node-to-node operations undertaken in inland hubs, multimodal depots, logistics terminals, freight consolidation facilities), which offer controlled environments and repeatable processes but also in the operational domain of processes occurring in those places.**
- **To ensure operational efficiency and support multimodal transport, proposals should address all the following points:**
 - **Identify gaps in automated transport technologies and logistics operations between modes and hubs.**
 - **Assess benefits of autonomous vehicles, rolling stock and vessels to multimodal logistics and the role/benefits of seamless multimodal automatic cargo transport across transport modes (rail, road, waterborne, aviation, alternative innovative modes of transport).**

- HORIZON-CL5-2023-D6-01-09: Climate resilient and safe maritime ports
- Budget: EUR 7.00 million
- Scope: Research is needed in order to limit transport infrastructure vulnerability to climate change and other natural or human caused disruptions. Making infrastructures more resilient to climate change should focus on improving the ability of the transport infrastructure network to withstand disruption, adapt to changing conditions under extreme circumstances while maintaining its performance. The goal is to strengthen infrastructure reliability, improve its performance under extreme circumstances thus increasing the resilience of the whole transport system.
- Projects are expected to contribute to **ALL** of the following outcomes (with a clear baseline for each use case):
 - Ensure resilience of infrastructure of a) seaports, b) connected inland waterways infrastructure c) connected hinterland land infrastructure, to extreme weather events by assuring at least 80% operability during the disruptions.
 - Contribute with at least 20% increase in modal shift of port hinterland connections towards zero- and low-emission transport systems.
 - Ensure safe port access and port operations by avoiding extra accidents as a consequence of disruptions caused by a changing climate

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*Horizon Europe - Work Programme 2023-2024
Climate, Energy and Mobility*

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Open Calls –Connected, Cooperative & Automated Mobility (CCAM)	Budget	Type of Action
HORIZON-CL5-2024-D6-01-01: Centralised, reliable, cyber-secure & upgradable in vehicle electronic control architectures for CCAM connected to the cloud-edge continuum (CCAM Partnership)	EUR 6.00 million	Research & Innovation
HORIZON-CL5-2024-D6-01-02: Scenario-based safety assurance of CCAM and related HMI in a dynamically evolving transport system (CCAM Partnership)	EUR 14.00 million	Research & Innovation
HORIZON-CL5-2024-D6-01-03: Orchestration of heterogeneous actors in mixed traffic within the CCAM ecosystem (CCAM Partnership)	EUR 6.00 million	Innovation
HORIZON-CL5-2024-D6-01-04: AI for advanced and collective perception and decision making for CCAM applications (CCAM Partnership)	EUR 5.00 million	Research & Innovation
HORIZON-CL5-2024-D6-01-05: Robust Knowledge and Know-How transfer for Key Deployment Pathways and implementation of the EU-CEM (CCAM Partnership)	EUR 4.00 million	Coordination & Support
HORIZON-CL5-2024-D6-01-06: Optimising multimodal network and traffic management, harnessing data from infrastructures, mobility of passengers and freight transport	EUR 4.00 and 5.00 million	Research & Innovation
HORIZON-CL5-2024-D6-01-07: Scaling up logistics innovations supporting freight transport decarbonisation in an affordable way	EUR 10.00 million	Innovation
HORIZON-CL5-2024-D6-01-08: Improved transport infrastructure performance – Innovative digital tools and solutions to monitor and improve the management and operation of transport infrastructure	EUR 5.00 million	Innovation

Open Calls	Budget	Type of Action
HORIZON-CL5-2024-D6-01-09: Policies and governance shaping the future transport and mobility systems	EUR 3.00 million	Research & Innovation
HORIZON-CL5-2024-D6-01-10: Ensuring the safety, resilience and security of waterborne digital systems	EUR 4.00 million	Research & Innovation
HORIZON-CL5-2024-D6-01-11: Effects of disruptive changes in transport: towards resilient, safe and energy efficient mobility	EUR 3.00 to 3.50 million	Research & Innovation
HORIZON-CL5-2024-D6-01-12: A new framework to improve traffic safety culture in the EU	EUR 3.50 million	Research & Innovation



Part 5: Recap of Horizon Europe

- Horizon Europe is the EU's funding programme for research and innovation, which includes transport and logistics
- Timeframe: 2021-2027
- Budget €95.5 billion
- Aims to:
 - Tackle climate change
 - Achieve the UN's Sustainable Development Goals
 - Boost EU's competitiveness and economic growth
- Horizon Europe's 3 Pillars
 - Pillar 1: Excellent Science
 - Pillar 2: Global Challenges & European Competitiveness
 - Pillar 3: Innovative Europe
- Partnerships open to public and private partners, such as industry, universities, research organisations, bodies with a public service mission at local, regional, national or international level, and civil society organisations, including foundations and NGOs
- Funding applications made via proposals following 'Open Calls'



Horizon Europe: 5 Steps to get funding

- 1. Find an opportunity:** Look for 'Funding or Tender Opportunities' by clicking on Horizon Europe Funding & Tenders (europa.eu) -- <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/home>
- 2. Create an account:** Register for an EU Login account Create an account (europa.eu) -- <https://webgate.ec.europa.eu/cas/eim/external/register.cgi>
- 3. Find partner(s) :** To find 'partners', once you have chosen your topic under Funding & Tenders
 - Use the 'partner search' section on the page
- 4. Register your organisation**
 - Register your organisation to get a 9-digit Participation Identification Code (PIC)
 - Use your EU login (Step 3) to then create your organisation login
- 5. Submit your proposal**
 - Select the Topic you want to submit a proposal for
 - Go to 'Submission Service' section. If the status is 'Open' you can submit your Proposal



Horizon Europe: Main 'Types of Actions'

Research and Innovation Action (RIA)

- Consortium of at least three different legal entities from three different eligible countries (all UK legal entities are classed as eligible). One consortium member must be from an EU Member State.
- Low Technology Readiness Level (TRL, see next slide).
- Participants receive 100% of eligible direct costs plus 25% for indirect costs.

Innovation Action (IA)

- Consortium of at least three different legal entities from three different eligible countries. One must be from a Member State.
- Typically high(er) TRL compared to RIA.
- Not-for-profit participants receive 100% of eligible direct costs plus 25% for indirect costs.
- For-profit participants receive 70% (60% if co-programmed) of eligible direct costs plus 25% for indirect costs.

Co-ordination and Support Action (CSA)

- For co-ordinating and supporting activities such as working groups, networking, regulation review, communications, organising EU conferences, etc.
- Does not need to have a collaborative approach but frequently does. At least one group must be from a Member State.
- All participants receive 100% of eligible direct costs plus 25% for indirect costs.

What is the TRL Scale?

- Technology Readiness Level (TRL) scale was originally defined by NASA in the 1990s as a means for measuring or indicating the maturity of a given technology. The TRL scale spans nine levels as follows:
 - TRL 1 – Basic principles observed
 - TRL 2 – Technology concept formulated
 - TRL 3 – Experimental proof of concept
 - TRL 4 – Technology validated in lab
 - TRL 5 – Technology validated in relevant environment (industrially relevant environment in the case of key enabling technologies)
 - TRL 6 – Technology demonstrated in relevant environment (industrially relevant environment in the case of key enabling technologies)
 - TRL 7 – System prototype demonstration in operational environment
 - TRL 8 – System complete and qualified
 - TRL 9 – Actual system proven in operational environment (competitive manufacturing in the case of key enabling technologies)



Horizon Europe: Institutional Partnerships

€10 billion in Green & Digital Transition

10 EU Institutional Partnerships

1. Global Health EDCTP3
2. Innovation health Initiative
3. Key Digital Technologies*
4. Circular Bio-based Europe
5. Clean Hydrogen*
6. Clean Aviation
7. Europe's Rail*
8. Single European Sky ATM Research 3
9. Smart Networks & Services*
10. Metrology

* Relevant
for Vehicle
Logistics

Examples of Other Relevant Partnerships

- European Partnership-Towards zero-emission waterborne transport
- European Partnership-driving urban transitions to a sustainable future (DUT)
- European Partnership for Clean Energy Transition
- European Partnership-Towards zero-emission road transport (2ZERO)
- European Partnership on Connected and Automated Driving (CCAM)

For more please read accompanying report



Conclusion:

- Higher chances of project winning funding if a **consortia**
 - Join a consortium, partnership, alliance
 - Be an **ACTIVE** member
 - YOU can shape the projects & proposals
- **Contact, Connect, Converse**
 - **Contact** relevant organisations
 - **Connect** with NCPs, consortia, organisations, partnerships
 - **Converse** and create contacts
- ECG Association will organise a **Webinar** with National Contact Persons, ALICE and others if we have adequate interest from **YOU**
 - Register your interest for a Webinar, to learn the next steps.



Thank You

