



Innovate  
UK

# Destinations 5 and 6, Cluster 5: Climate, Energy & Mobility Horizon Europe

Louise Mothersole  
Horizon Europe UK National Contact Point for Mobility

[Louise.Mothersole@innovateuk.ukri.org](mailto:Louise.Mothersole@innovateuk.ukri.org)



**HORIZON EUROPE**

THE NEXT EU RESEARCH & INNOVATION  
PROGRAMME (2021 – 2027)

# UK has agreed to Associate to Horizon Europe

Association will give UK organisations access to funding under the programme on equivalent terms as organisations in EU countries - UK will be contributing an additional 16% to the Horizon Europe budget

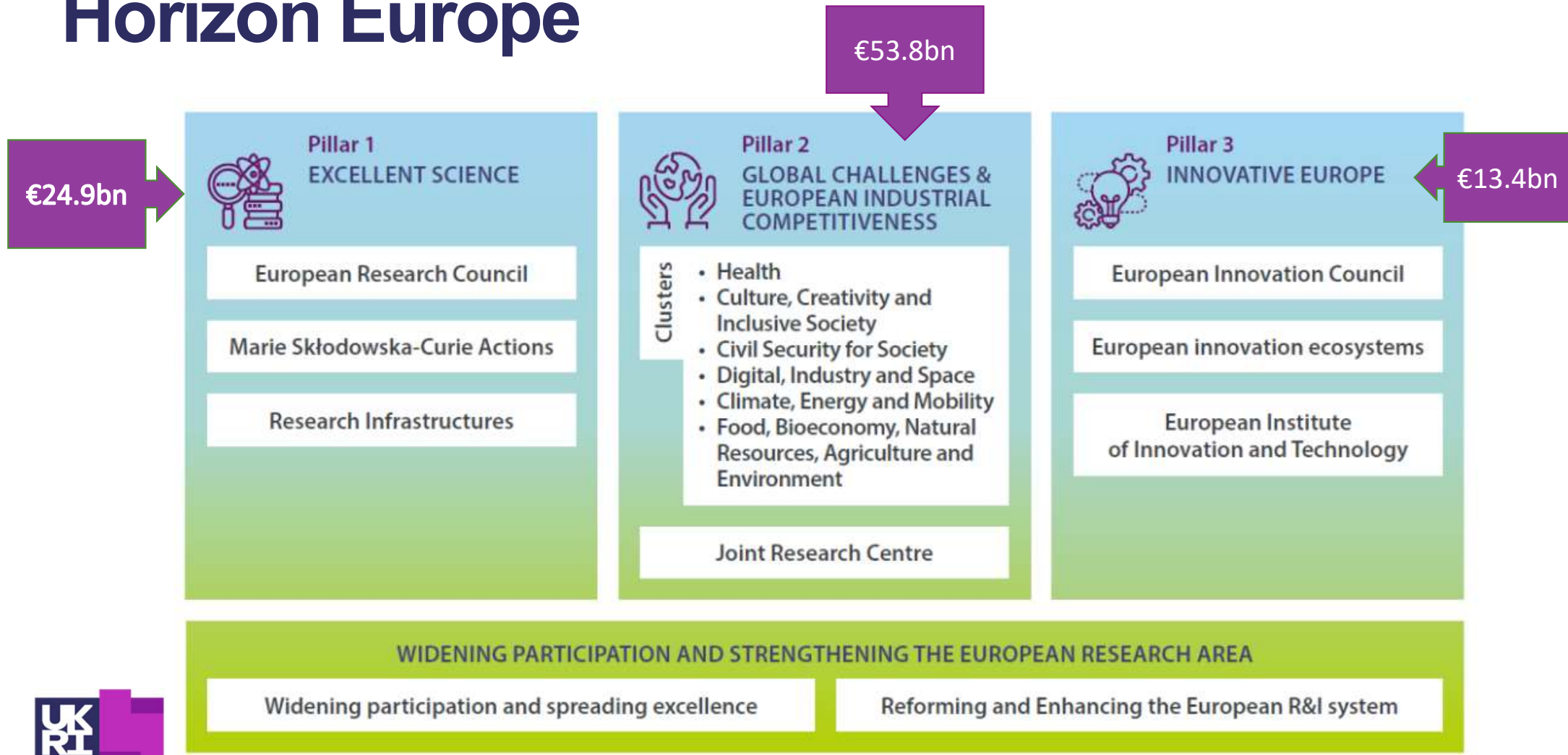
- Can organisations from Associate Countries coordinate proposals? – Yes
- Can organisations from Associate Countries join Partnerships? – Yes
- Do the national governments or funding bodies from Associate Countries have any role in pre-approving proposals for submission? – No
- Do Associate Countries have representation on Programme Committees? – Yes

European Commission has published [Q&A on the UK's participation in Horizon Europe](#)

“UK entities including universities, research centres, scientists, innovative businesses, industry, etc. will have full rights to participate in the first calls for proposals of Horizon Europe as soon as they are published”

“In duly justified exceptional cases, restrictions may apply and these will be clearly specified in the calls for proposals”

# Horizon Europe



Budget figures exclude UK and other Associate Country contributions

# Cluster 5: Calls for Proposals 2021/2022

Destinations 1&2

## Climate (plus)

1. Climate Sciences and responses
2. A competitive and sustainable European battery value chain
2. Emerging breakthrough technologies and climate solutions
2. Citizens and stakeholder engagement
2. Communities and cities

€501m – 2021/22

Destinations 3&4

## Energy

3. Global leadership in renewable energy
3. Energy systems, grids and storage
3. Carbon capture, utilisation and storage (CCUS)
3. Cross-cutting issues
4. Highly energy-efficient and climate neutral EU building stock
4. Industrial facilities in the energy transition

€1.4bn – 2021/22

Destinations 5&6

## Mobility

5. Zero Emission Road Transport (2ZERO)
5. Aviation
5. Enabling low-carbon, clean, smart, and competitive waterborne transport (ZEWT)
5. Impact of transport on environment and human health
6. Connected, cooperative and automated mobility (CCAM)
6. Multimodal and sustainable transport systems for passengers and goods
6. Safety and resilience – per mode and across all transport modes

€870m – 2021/22

# Partnerships in Horizon Europe

Partnerships bring together the European Commission and private and/or public partners together to tackle pressing challenges.

## Types of Partnership:

- **Institutional Partnership** - Require legislative proposals from the Commission and are implemented by dedicated structures created for that purpose.
  - 27% of Cluster 5 Budget over life of programme
- **Co-Programmed Partnership** - are between the Commission and private and/or public partners. They are based on memoranda of understanding and/or contractual arrangements.
  - 62% of Transport budget in 2021/22 Work Programme
- **Co-Funded Partnership** - Involving EU countries with research funders and other public authorities at the core of the consortium.

Partnerships have often arisen as a result of European Technology Platform activity

# Destination 5: Clean and competitive solutions for all transport modes

**Towards climate-neutral and environmental friendly mobility through clean solutions across all transport modes while increasing global competitiveness of the EU transport sector**

- Zero Emission Road Transport (2ZERO Co-Programmed Partnership)
- Aviation
- Enabling low-carbon, clean, smart, and competitive waterborne transport (ZEWT Co-Programmed Partnership)
- Impact of transport on environment and human health

# Destination 6 : Safe, resilient transport and smart mobility services for passengers and goods

Safe, seamless, smart, inclusive, resilient, climate neutral and sustainable mobility systems for people and goods thanks to user-centric technologies and services including digital technologies and advanced satellite navigation services

- Connected, cooperative and automated mobility (CCAM Co-Programmed Partnership)
- Multimodal and sustainable transport systems for passengers and goods
- Safety and resilience – per mode and across all transport modes

# Horizon Europe for Specific Transport Sectors

Autonomous Mobility

Smart Transport, Infrastructure and Logistics

Health Impact of Transport and Safety

Maritime

Automotive

Aerospace

Rail



# Differences in latest draft Work Programme from 'standard' Horizon Europe

## Innovation Action (IA)

- All not-for-profit participants receive 100% of eligible direct costs plus 25% of that for indirect costs
- All for-profit participants receive 70% (**60% if co-programmed partnerships**) of eligible direct costs plus 25% of that for indirect costs

## Length of Proposal

- For some Innovation Actions – “The page limit of the application is 70 pages”
- For some Research and Innovation Actions – “The page limit of the application is 60 pages”

**Check the final version when it is formally published**

# Horizon Europe for Autonomous Mobility Sector

# Horizon Europe Autonomous Mobility Competitions 2021 - DRAFT

Topics (competitions)	Type of Action	Budgets (EUR million)	Expected EU contribution per project (EUR million)	Number of projects expected to be funded	Deadline
HORIZON-CL5-2021-D6-01-01: More powerful and reliable on-board perception and decision-making technologies addressing complex environmental conditions (CCAM Partnership)	IA	15	6 to 8	2	19 October 2021
HORIZON-CL5-2021-D6-01-02: Common approaches for the safety validation of CCAM systems (CCAM Partnership)	RIA	15	12 to 15	1	19 October 2021
HORIZON-CL5-2021-D6-01-03: Physical and Digital Infrastructure (PDI), connectivity and cooperation enabling and supporting CCAM (CCAM Partnership)	IA	18	7 to 9	2	19 October 2021
HORIZON-CL5-2021-D6-01-04: Cyber secure and resilient CCAM (CCAM Partnership)	RIA	12	5 to 6	2	19 October 2021
HORIZON-CL5-2021-D6-01-05: Analysis of socio-economic and environmental impacts and assessment of societal, citizen and user aspects for needs based CCAM solutions (CCAM Partnership)	RIA	8	3 to 4	2	19 October 2021
HORIZON-CL5-2021-D6-01-06: Framework for better coordination of large-scale demonstration pilots in Europe and EU-wide knowledge base (CCAM Partnership)	RIA	6	5 to 6	1	19 October 2021

# Horizon Europe Autonomous Mobility Competitions 2022 - DRAFT

Topics (competitions)	Type of Action	Budgets (EUR million)	Expected EU contribution per project (EUR million)	Number of projects expected to be funded	Deadline
HORIZON-CL5-2022-D6-01-01: European demonstrators for integrated shared automated mobility solutions for people and goods (CCAM Partnership)	IA	46	20 to 23	2	12 January 2022
HORIZON-CL5-2022-D6-01-02: Reliable occupant protection technologies and HMI solutions to ensure the safety of highly automated vehicles (CCAM Partnership)	RIA	8	6 to 8	1	12 January 2022
HORIZON-CL5-2022-D6-01-03: Human behavioural model to assess the performance of CCAM solutions compared to human driven vehicles (CCAM Partnership)	RIA	10	4 to 5	1	12 January 2022
HORIZON-CL5-2022-D6-01-04: Integrate CCAM services in fleet and traffic management systems (CCAM Partnership)	IA	10	4 to 5	2	12 January 2022
HORIZON-CL5-2022-D6-01-05: Artificial Intelligence (AI): Explainable and trustworthy concepts, techniques and models for CCAM (CCAM Partnership)	RIA	12	5 to 6	2	12 January 2022

# Cooperative, Connected Automated Mobility (CCAM)

- A Co-Programmed Partnership - Members of the partnership develop the Strategic Research and Innovation Agenda ([SRIA](#)) which is used to create the Work Programme (calls for proposals)
- CCAM is managed by [Xavier Aertsens](#) who also manages the secretariate of the European Road Transport Research Advisory Council ([ERTRAC](#)).
- Membership of CCAM gives you a voice in the future direction of the Work Programme and is a showcase for your capabilities. **Action: Send Xavier an email and ask how you can contribute to the work of the partnership.**
- If you join any networking organisation, ensure that you get your money's worth:
  - Be an *active* member – say 'hi' when you join the virtual room. Ask questions, support others' opinions, act as if you are already well known to all in the virtual room because you soon will be
  - Volunteer to draft working papers, take notes, send in useful information – be helpful
  - Speak up at workshops – demonstrate Thought Leadership
  - Show that you would be a valuable partner for collaborative projects and that without you they won't win – you have the secret sauce that is necessary for their success

# Useful EU networking groups for Connected Transport, Urban Mobility, etc

- [ERTICO](#) - develops, promotes and deploys intelligent mobility services by providing multi-stakeholder platform for action
- [POLIS](#) - the network of European cities and regions cooperating for innovative transport solutions
- [CIVITAS](#) - a network of cities for cities dedicated to cleaner, better transport in Europe and beyond
- Others see [ETNA2020](#) National Contact Point Toolkit
- If you join any networking organisation, ensure that you get your money's worth:
  - Be an active member
  - Volunteer to draft working papers, take notes, etc
  - Speak up at workshops – demonstrate Thought Leadership

# Horizon Europe for Smart Transport, Infrastructure and Logistics Sector

# Horizon Europe Smart Transport, Infrastructure and Logistics Competitions 2021 - DRAFT

Topics (competitions)	Type of Action	Budgets (EUR million)	Expected EU contribution per project (EUR million)	Number of projects expected to be funded	Deadline
HORIZON-CL5-2021-D6-01-07: More efficient and effective multimodal freight transport nodes to increase flexibility, service visibility and reduce the average cost of freight transport	IA	15	7 to 8	2	19 October 2021
HORIZON-CL5-2021-D6-01-08: New delivery methods and business/operating models to green the last mile and optimise road transport	IA	15	7 to 8	2	19 October 2021
HORIZON-CL5-2021-D6-01-09: Climate resilient and environmentally sustainable transport infrastructure, with a focus on inland waterways	IA	18	Around 6	3	19 October 2021




# Horizon Europe Smart Transport, Infrastructure and Logistics Competitions 2022 - DRAFT


Topics (competitions)	Type of Action	Budgets (EUR million)	Expected EU contribution per project (EUR million)	Number of projects expected to be funded	Deadline
HORIZON-CL5-2022-D6-02-01: Logistics networks integration and harmonisation through operational connectivity to optimise freight flows and drive logistics to climate neutrality	IA	15	7 to 8	2	13 September 2022
HORIZON-CL5-2022-D6-02-02: Urban logistics and planning: anticipating urban freight generation and demand including digitalisation of urban freight	IA	15	7 to 8	2	13 September 2022
HORIZON-CL5-2022-D6-02-03: Smart enforcement for resilient, sustainable and more efficient transport operations	RIA	8	Around 4	2	13 September 2022
HORIZON-CL5-2022-D6-02-04: Accelerating the deployment of new/shared mobility services for the next decade	IA	20	8 to 10	2	13 September 2022
HORIZON-CL5-2022-D6-02-05: Advanced multimodal network and traffic management for seamless door-to-door mobility of passengers and freight transport	RIA	15	4 to 5	3	13 September 2022
HORIZON-CL5-2022-D6-02-06: Smart and efficient ways to construct, maintain and decommission with zero emissions from transport infrastructure	IA	10	Around 5	2	13 September 2022
HORIZON-CL5-2022-D6-02-07: New concepts and approaches for resilient freight transport and logistics networks against disruptive events (including pandemics)	RIA	8	Around 4	2	13 September 2022


# How to influence this part of the Work Programme and find partners

- The Alliance for Logistics Innovation through Collaboration in Europe ([ALICE](#)) is the voice of the innovative logistics sector that is listened to by the EC
- Membership is not expensive (<€5K), and the Secretary General [Fernando Liesa](#) is very welcoming of UK participation **Action: Send Fernando an email and ask how you can contribute to the work of ALICE.**
- If you join any networking organisation, ensure that you get your money's worth:
  - Be an *active* member – say 'hi' when you join the virtual room. Ask questions, support others' opinions, act as if you are already well known to all in the virtual room because you soon will be
  - Volunteer to draft working papers, take notes, send in useful information – be helpful
  - Speak up at workshops – demonstrate Thought Leadership
  - Show that you would be a valuable partner for collaborative projects and that without you they won't win – you have the secret sauce that is necessary for their success

# ALICE Intranet

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 Henri Mehto  
22 Sep 2020

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22 Sep 2020

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# Useful EU networking groups for Urban Mobility, etc

- [ERTICO](#) - develops, promotes and deploys intelligent mobility services by providing multi-stakeholder platform for action
- [POLIS](#) - the network of European cities and regions cooperating for innovative transport solutions
- [CIVITAS](#) - a network of cities for cities dedicated to cleaner, better transport in Europe and beyond
- If you join any networking organisation, ensure that you get your money's worth:
  - Be an active member
  - Volunteer to draft working papers, take notes, etc
  - Speak up at workshops – demonstrate Thought Leadership

# Horizon Europe for Health Impact of Transport and Safety

# Impact of transport on environment and human health - DRAFT

Topics (competitions)	Type of Action	Budgets (EUR million)	Expected EU contribution per project (EUR million)	Number of projects expected to be funded	Deadline
HORIZON-CL5-2021-D5-01-15: Development and demonstration of cost affordable and adaptable retrofit solutions for tailpipe and brake polluting emissions	IA	10	4 to 5	2	14 September 2021
HORIZON-CL5-2021-D5-01-16: Assessment of noise and particle emissions of L category vehicles from real driving conditions	RIA	5	4 to 5	1	14 September 2021
HORIZON-CL5-2022-D5-02-07: Prevent smog episodes in Europe: Air quality impact of engine-emitted volatile, semi volatile and secondary particles	RIA	7	2.5 to 3	3	26 April 2022

# Safety and resilience - per mode and across all transport modes - DRAFT

Topics (competitions)	Type of Action	Budgets (EUR million)	Expected EU contribution per project (EUR million)	Number of projects expected to be funded	Deadline
HORIZON-CL5-2021-D6-01-10: Testing safe lightweight vehicles and improved safe human-technology interaction in the future traffic system	RIA	12	4 to 5	3	19 October 2021
HORIZON-CL5-2021-D6-01-11: Radical improvement of road safety in low- and medium-income countries in Africa	RIA	8	4 to 5	2	19 October 2021
HORIZON-CL5-2021-D6-01-12: Controlling infection on large passenger ships	RIA	8	3 to 5	2	19 October 2021
HORIZON-CL5-2021-D6-01-13: Safe automation and human factors in aviation – intelligent integration and assistance	IA	12	4 to 8	2	19 October 2021
HORIZON-CL5-2022-D6-01-06: Predictive safety assessment framework and safer urban environment for vulnerable road users	RIA	12	Around 4	3	12 January 2022
HORIZON-CL5-2022-D6-01-07: More resilient aircraft and increased survivability	IA	8	4 to 8	1	12 January 2022
HORIZON-CL5-2022-D6-01-08: Safer navigation and tackling containership fires	IA	12	3.5 to 6	2	12 January 2022

# Horizon Europe for Maritime Sector



# Horizon Europe Maritime Competitions 2021 - DRAFT

Topics (competitions)	Type of Action	Budgets (€ million)	Expected EU contribution per project (€ million)	Submission Deadline
HORIZON-CL5-2021-D5-01-07: Enabling the safe and efficient on-board storage and integration within ships of large quantities of ammonia and hydrogen fuels (ZEWT Partnership)	IA	20	Around 10	14 September 2021
HORIZON-CL5-2021-D5-01-08: Enabling the full integration of very high power fuel cells in ship design using co-generation and combined cycle solutions for increased efficiency with multiple fuels (ZEWT Partnership)	RIA	15	Around 15	14 September 2021
HORIZON-CL5-2021-D5-01-09: CSA identifying waterborne sustainable fuel deployment scenarios (ZEWT Partnership)	CSA	0.5	0.5	14 September 2021
HORIZON-CL5-2021-D5-01-10: Innovative on-board energy saving solutions (ZEWT Partnership)	RIA	20	Around 5	14 September 2021
HORIZON-CL5-2021-D5-01-11: Hyper powered vessel battery charging system (ZEWT Partnership)	IA	14	Around 7	14 September 2021
HORIZON-CL5-2021-D5-01-12: Assessing and preventing methane slip from LNG engines in all conditions within both existing and new vessels (ZEWT Partnership)	IA	7	Around 7	14 September 2021
HORIZON-CL5-2021-D5-01-13: Digital Twin models to enable green ship operations (ZEWT Partnership)	RIA	7	Around 7	14 September 2021
HORIZON-CL5-2021-D5-01-14: Proving the feasibility of a large clean ammonia marine engine (ZEWT Partnership)	IA	10	Around 10	14 September 2021
HORIZON-CL5-2021-D6-01-12: Controlling infection on large passenger ships	RIA	8	3 to 5	14 September 2021

# Horizon Europe Maritime Competitions 2022 - DRAFT

Topics (competitions)	Type of Action	Budgets (EUR million)	Expected EU contribution per project (EUR million)	Submission Deadline
HORIZON-CL5-2022-D6-01-08: Safer navigation and tackling containership fires	IA	12	3.5 to 6	19 January 2022
HORIZON-CL5-2022-D5-02-01: Exploiting electrical energy storage systems and better optimising large battery electric power within fully battery electric and hybrid ships (ZEWT Partnership)	IA	16	Around 8	26 April 2022
HORIZON-CL5-2022-D5-02-02: Innovative non-battery electric energy storage systems on-board vessels (ZEWT Partnership)	RIA	15	Around 5	26 April 2022
HORIZON-CL5-2022-D5-02-03: Exploiting renewable energy for shipping, in particular focusing on the potential of wind energy (ZEWT Partnership)	RIA	18	Around 9	26 April 2022
HORIZON-CL5-2022-D5-02-04: Transformation of the existing fleet towards greener operations through retrofitting (ZEWT Partnership)	IA	20	Around 5	26 April 2022
HORIZON-CL5-2022-D5-02-05: Seamless safe logistics through an autonomous waterborne freight feeder loop service	RIA	15	Around 15	26 April 2022
HORIZON-CL5-2022-D5-02-06: Computational tools for shipbuilding	IA	7	Around 7	26 April 2022

# Zero Emission Waterborne Transport (ZEWT)

- A Co-Programmed Partnership: Members of the partnership form working groups to develop the Strategic Research and Innovation Agenda ([SRIA](#)) which is used to create the Work Programme (calls for proposals)
- ZEWT is managed by [Jaap Gebraad](#) who also manages the secretariate of the [Waterborne Technology Platform](#)
- Membership of Waterborne and/or ZEWT gives you a voice in the future research and innovation direction and is a showcase for your capabilities. **Action: Send Jaap an email and ask how you can contribute to the work of the partnership.**
- If you join any networking organisation, ensure that you get your money's worth:
  - Be an *active* member – say 'hi' when you join the virtual room. Ask questions, support others' opinions, act as if you are already well known to all in the virtual room because you soon will be
  - Volunteer to draft working papers, take notes, send in useful information – be helpful
  - Speak up at workshops – demonstrate Thought Leadership
  - Show that you would be a valuable partner for collaborative projects and that without you they won't win – you have the secret sauce that is necessary for their success

# Waterborne Technology Platform

Waterborne Technology Platform has been set up as an industry-oriented Technology Platform to establish a continuous dialogue between all waterborne stakeholders, such as classification societies, shipbuilders, shipowners, maritime equipment manufacturers, infrastructure and service providers, universities or research institutes, and with the EU Institutions, including Member States. Waterborne has the following objectives:

- To establish a continuous dialogue between all stakeholders in the waterborne transport sector and in other waterborne-related sectors on R&D;
- To contribute to the widest possible consensus regarding R&D and to focusing of efforts and resources;
- To develop a common medium- and long-term R&D Vision and a Strategic Research Agenda (SRA);
- To contribute to the appropriate mobilisation and allocation of the necessary financial resources (private/regional/national/EU sources);
- To contribute to the social expectations regarding clean, competitive and safe waterborne transport as well as regarding other waterborne-related activities, including education and training.

Waterborne will coordinate the Co-Programmed Partnership on Zero-Emission Waterborne Transport.



# Other relevant European Associations

SEA Europe [www.seaeurope.eu](http://www.seaeurope.eu)

SEA Europe represents close to 100% of the European shipbuilding industry in 16 nations, encompassing the production, maintenance, repair and conversion of all types of ships and floating structures, commercial as well as naval, including the full supply chain with the various producers of maritime systems, equipment material, and services. SEA Europe is a key player in the Waterborne Technology Platform.

European Council for Maritime Applied R&D - ECMAR [www.ecmar.eu](http://www.ecmar.eu)

ECMAR is the Voice for Europe's maritime applied research community (only research institutes) and

- Contributes to common Strategic Research Agenda
- Supports adoption of research priorities at EU level
- Fosters Members in development of proactive research policy and industry strategy
- Provides information on, and input to, policies, programmes & projects.

ECMAR is member of the Waterborne Technology Platform.

Marine University Association WEGEMT [www.wegemt.com](http://www.wegemt.com)

WEGEMT aims to update and extend the skills, knowledge and competence of practising engineers and postgraduate students working at an advanced level in marine technology and related sciences.

# Horizon Europe for Automotive Sector

# Horizon Europe Automotive Competitions 2021 - DRAFT

Topics (competitions)	Type of Action	Budgets (EUR million)	Expected EU contribution per project (EUR million)	Number of projects expected to be funded	Deadline
HORIZON-CL5-2021-D5-01-01: Nextgen vehicles: Innovative zero emission BEV architectures for regional medium freight haulage (2ZERO)	IA	45	10 to 15	3	07 September 2021
HORIZON-CL5-2021-D5-01-02: Nextgen EV components: Integration of advanced power electronics and associated controls (2ZERO)	RIA	20	4 to 6	4	07 September 2021
HORIZON-CL5-2021-D5-01-03: System approach to achieve optimised Smart EV Charging and V2G flexibility in mass-deployment conditions (2ZERO)	RIA	25	7 to 10	3	07 September 2021
HORIZON-CL5-2021-D5-01-04: LCA and design for sustainable circularity - holistic approach for zero-emission mobility solutions and related battery value chain (2ZERO & Batteries Partnership)	CSA	4	Around 4	1	07 September 2021
HORIZON-CL5-2021-D5-01-15: Development and demonstration of cost affordable and adaptable retrofit solutions for tailpipe and brake polluting emissions	IA	10	4 to 5	2	07 September 2021
HORIZON-CL5-2021-D5-01-16: Assessment of noise and particle emissions of L category vehicles from real driving conditions	RIA	5	4 to 5	1	07 September 2021
HORIZON-CL5-2021-D6-01-10: Testing safe lightweight vehicles and improved safe human-technology interaction in the future traffic system	RIA	12	4 to 5	3	19 October 2021
HORIZON-CL5-2021-D6-01-11: Radical improvement of road safety in low- and medium-income countries in Africa	RIA	8	4 to 5	2	19 October 2021

# Horizon Europe Automotive Competitions 2022 - DRAFT

Topics (competitions)	Type of Action	Budgets (EUR million)	Expected EU contribution per project (EUR million)	Number of projects expected to be funded	Deadline
HORIZON-CL5-2022-D5-01-01: Modular multi-powertrain zero-emission systems for HDV (BEV and FCEV) for efficient and economic operation (2ZERO)	IA	55	15 to 20	3	19 January 2022
HORIZON-CL5-2022-D5-01-02: Nextgen EV components: High efficiency and low-cost electric motors for circularity and low use of rare resources (2ZERO)	RIA	20	3 to 6	4	19 January 2022
HORIZON-CL5-2022-D5-01-03: New generation of full electric urban and peri-urban Bus Rapid Transit systems to strengthen climate-friendly mass transport (2ZERO)	IA	25	20 to 25	1	19 January 2022
HORIZON-CL5-2022-D5-01-04: Stimulating Road Transport research and innovation dissemination and implementation in Europe and around the World	CSA	2	Around 2	1	19 January 2022
HORIZON-CL5-2022-D6-01-06: Predictive safety assessment framework and safer urban environment for vulnerable road users	RIA	12	Around 4	3	19 January 2022
HORIZON-CL5-2022-D5-02-07: Prevent smog episodes in Europe: Air quality impact of engine-emitted volatile, semi volatile and secondary particles	RIA	7	2.5 to 3	3	26 April 2022



# Towards Zero Emission Road Transport (2ZERO)

- A Co-Programmed Partnership - Members of the partnership develop the Strategic Research and Innovation Agenda ([SRIA](#)) which is used to create the Work Programme (calls for proposals)
- 2-ZERO is managed by [Lucie Beaumel](#) who managed its predecessor the European Green Vehicle Initiative ([EGVI](#)). Lucie has been very welcoming of UK participation
- Membership of 2-ZERO gives you a voice in the future direction and is a showcase for your capabilities  
**Action: Send Lucie an email and ask how you can contribute to the work of the partnership.**
- If you join any networking organisation, ensure that you get your money's worth:
  - Be an *active* member – say 'hi' when you join the virtual room. Ask questions, support others' opinions, act as if you are already well known to all in the virtual room because you soon will be
  - Volunteer to draft working papers, take notes, send in useful information – be helpful
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# Useful EU networking groups for automotive research, etc

- The European Automotive Research Partners Association ([EARPA](#)) is a very active network holding frequent workshops and seminars
- European Road Transport Research Advisory Group ([ERTRAC](#)) is recognised by the EC as the voice of innovation in the road transport sector.
- If you join any networking organisation, ensure that you get your money's worth:
  - Be an *active* member – say 'hi' when you join the virtual room. Ask questions, support others' opinions, act as if you are already well known to all in the virtual room because you soon will be
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# Horizon Europe for Aerospace Sector

# Horizon Europe Aviation Competitions - DRAFT

Topics (competitions)	Type of Action	Budgets (EUR million)	Expected EU contribution per project (EUR million)	Number of projects expected to be funded	Deadline
HORIZON-CL5-2021-D5-01-05: Greenhouse gas aviation emissions reduction technologies towards climate neutrality by 2050	RIA	25	2 to 6	6	07 September 2021
HORIZON-CL5-2021-D5-01-06: Next generation digital aircraft transformation in design, manufacturing, integration and maintenance	RIA	25	3 to 6	5	07 September 2021
HORIZON-CL5-2022-D5-01-05: Towards a silent and ultra-low local air pollution aircraft	RIA	20	2 to 5	5	19 January 2022
HORIZON-CL5-2022-D5-01-06: Digital aviation technologies for new aviation business models, services, emerging global threats and industrial competitiveness	RIA	20	2 to 5	5	19 January 2022
HORIZON-CL5-2022-D5-01-07: European Aviation Research Policy in support to EU policies and initiatives	RIA	5	0.5 to 2.5	3	19 January 2022
HORIZON-CL5-2021-D6-01-13: Safe automation and human factors in aviation – intelligent integration and assistance	IA	12	4 to 8	2	19 October 2021
HORIZON-CL5-2022-D6-01-07: More resilient aircraft and increased survivability	IA	8	4 to 8	1	19 January 2022

# Useful EU networking groups for Aerospace and Aviation

- [ACARE](#) – Advisory Council for Aviation Research and Innovation in Europe is a European Technology Platform and as such is listened to by the EC as the voice of the sector
- [Pegasus](#) – a partnership of European aerospace universities whose objective is to offer highly relevant educational and research programmes
- If you join any networking organisation, ensure that you get your money's worth:
  - Be an *active* member – say 'hi' when you join the virtual room. Ask questions, support others' opinions, act as if you are already well known to all in the virtual room because you soon will be
  - Volunteer to draft working papers, take notes, send in useful information – be helpful
  - Speak up at workshops – demonstrate Thought Leadership
  - Show that you would be a valuable partner for collaborative projects and that without you they won't win – you have the secret sauce that is necessary for their success

# Clean Aviation

- An Institutional Partnership following on from Clean Sky (FP7) and [Clean Sky2](#) (Horizon 2020)
- Founding Member Partners make a substantial financial commitment
- The Partnership becomes a legal entity in its own right with offices, employees, etc.
- They manage the Work Programme and the delivery of the Projects, but the Strategic Research and Innovation Agenda ([SRIA](#)) is developed by the members
- Clean Aviation priorities are:
  - Disruptive technologies for a Hybrid Electric Regional Aircraft
  - Disruptive technologies for an ultra-efficient short and medium-range aircraft
  - Disruptive technologies to enable hydrogen-powered aircraft
- Calls for proposals will be published on the [EU Funding and Tenders Portal](#) and will be open to non-members

# SESAR3

- An Institutional Partnership following on from SESAR (FP7) and [SESAR2020](#) (Horizon 2020)
- Founding Member Partners make a substantial financial commitment – a [Memorandum of Understanding](#) explains the role of the members
- The Partnership becomes a legal entity in its own right with offices, employees, etc.
- They manage the Work Programme and the delivery of the Projects, but the Strategic Research and Innovation Agenda ([SRIA](#)) is developed by the members
- Calls for proposals will be published on the [EU Funding and Tenders Portal](#) and will be open to non-members

# Horizon Europe for Rail Sector



# Europe's Rail Joint Undertaking

- An Institutional Partnership following on from [Shift2Rail](#) in Horizon 2020
- Founding Member Partners make a substantial financial commitment
- The Partnership becomes a legal entity in its own right with offices, employees, etc.
- They manage the Work Programme and the delivery of the Projects, but the Strategic Research and Innovation Agenda ([SRIA](#)) is developed by the members
- Calls for proposals will be published on the [EU Funding and Tenders Portal](#) and will be open to non-members

Most common question all NCPs get asked: “How can I find partners for a consortium?”

# Formal consortium building mechanisms

**Participant portal** – Every topic, once published, will have a ‘Partner Search’ function where you can upload your profile and review others that have done so

**Brokerage events** – European Commission, Technology Platforms, Co-Programmed Partnerships, Enterprise Europe Network, UK’s KTN, NCPs from around Europe, etc will hold virtual hold events with e.g., Meeting Mojo, B2B and other tools

**Partner Search** – under the How to participate tab on the EU funding and tender opportunities portal where you can search for past projects and organisations

**CORDIS** – a more useful way of finding past projects and participants and allows you to contact them



Searching the formal consortium building mechanisms is a bit like looking for a needle in a haystack – they all look like needles so finding the ones for you can be difficult

# The best ways to form winning teams

Being an *effective networker* is much more useful than submitting a profile into a portal and awaiting contacts. Don't wait to be invited to the party, push yourself forward

- Use your existing professional networks – if you don't know who the sector leaders are in Europe then you should find out
  - Use Linked In to connect to people from possible consortium partners
- Search [CORDIS](#) for previous, related projects and contact the participants. All projects must disseminate their results and often hold workshops, etc.
- **Join the relevant networks, associations and partnerships, ask your NCP for suggestions**
  - Be an *active* member – say 'hi' when you join the virtual room. Ask questions, support others' opinions, act as if you are already well known to all in the virtual room
  - Volunteer to draft working papers, take notes, send in useful information – be helpful
  - Speak up at workshops – demonstrate Thought Leadership
  - Show that you would be a valuable partner for collaborative projects and that without you they won't win – you have the secret sauce that is necessary for their success

# What constitutes a winning consortium?

One that can **deliver** the expected outcomes within the stated scope and budget (and give the evaluators confidence that they can)

Common to see universities, big business, small business, research and technologies organisations, consultancies, local authorities, national authorities all within the one consortium. There is no 'typical' or 'model' consortium structure/membership

Useful to include exploitation partners – someone who is going to take the outputs of the project and actually implement them (e.g. an automotive/aerospace/marine/rail/etc., industry) to show immediate impact

Many topics specifically call for international participation e.g. all CCAM topics state “In order to achieve the expected outcomes, international cooperation is advised, in particular with projects or partners from the US, Japan, Canada, South Korea, Singapore, Australia.”

# Any Questions?

