Horizon Europe Cluster 5 Info Days

15 December 2022

EUROPEAN UNION

CLUSTER 5 Climate, Energy & Mobility

INFO DAYS 2022 - 15-16 December 2022

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THE EU RESEARCH & INNOVATION PROGRAMME 2021 - 2027

Destination 6

Safe, Resilient Transport and Smart Mobility services for passengers and goods

Suzanna KRAAK, Paola CHIARINI

European Commission

Thematic area

Connected, Cooperative and Automated Mobility (CCAM)

European Commission

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)

SCOPE

- **Perception-focused solutions and features** to enhance the sense of safety, privacy, and well-being and to eliminate stress, addressing the specific needs of individuals from diverse user groups (e.g. elderly, disabled, tourists)
- Alternative, flexible and automated **interior configurations** to better suit occupants' needs and solutions to further to tackle **motion sickness**
- **Adaptive systems** that can **transfer preferred personal settings** between vehicles to increase the user acceptability of shared vehicles
- New mobility services also for users with **special needs** (e.g. elderly and disabled), which take into account the heterogeneous requirements and preferences of different target groups
- Technologies to ensure the **security of the occupants**, inside and outside the vehicle to reduce the risk of misuse and dangerous situations (e.g. assaults, vandalism, thefts, etc.)

European Commission

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)

EXPECTED OUTCOME

- **Advanced vehicle technologies** and solutions to optimise usability, perception and experience on-board, and when boarding/off-boarding, in terms of security, privacy, well-being, health and assistance.
- Enhanced **inclusiveness** and **trust** in the interaction between users and new automated modes of road transport and mobility services
- **Safety** and **security** of **vehicle occupants** in all circumstances to prevent dangerous and inconvenient situations, also when boarding/off-boarding.
- **Strengthened cooperation** between users, vehicle manufacturers, suppliers, researchers and other stakeholders to co-design vehicles
- **Better understanding** of the **benefits** of new vehicle technologies and solutions in terms of on-board experience, inclusiveness and trust to enable wider **user acceptability** and the creation of future standards.

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)

TYPE OF ACTION

- **RIA** – Research and Innovation Actions
- Expected **TRL 5** by the end of the project

EU CONTRIBUTION

- Per project: **4 M€**
- Total: **8 M€**

TIMING

- Call opening: **4 May 2023**
- Call closing: **5 September 2023**

Eligibility condition: If projects use satellite-based earth observation, positioning, navigation and/or related timing data and services, beneficiaries **must** make use of Copernicus and/or Galileo/EGNOS (other data and services may **additionally** be used).

European Commission

HORIZON-CL5-2023-D6-01-02
Generation of scenarios for development, training, virtual testing and validation of CCAM systems (CCAM Partnership)

SCOPE (1/2)

Building on the **HEADSTART** project and **HORIZON-CL5-2021-D6-01-02:**

- **AI based tools** to transform raw traffic data into **reliable, plausibility-proofed data** as well as tools for **automatic scenario identification** and extraction from that data, including the detection of edge cases
- **Generation of scenarios** (from real traffic and synthetic data) with a focus on extending ODDs (including adverse weather conditions)
- **Integration** of the above in an **automatic processing chain** with standardised, open interfaces to enable the efficient and seamless use of data from different sources
- Ensure reliable **merging of scenarios** from different data sources (different projects, different vehicles and stationary units, different perspectives etc.)

HORIZON-CL5-2023-D6-01-02
Generation of scenarios for development, training, virtual testing and validation of CCAM systems (CCAM Partnership)

SCOPE (2/2)

- Feed the resulting scenarios in an openly **accessible dynamic scenario database**, which can be used for the development, training, virtual testing and type approval validation of CCAM systems
- Demonstration, assessment of the potential and upscaling of sensor units to record high quality big traffic data in various environments, as well as under various environmental conditions and to **identify relevant scenarios** making use of the processing chain
- Evaluate different approaches to identify relevant scenarios on rural roads based on the developed processing chain and on traffic data to be recorded on various types of rural roads
- Explore the **potential** of **complementing scenarios** extracted from real traffic data with scenarios extracted from validated, highly detailed traffic simulations, including the use of AI to generate edge cases and other adversarial driving conditions in such simulations
- Ensure the continuous **generation of updates** of the dynamic scenario database

European Commission

HORIZON-CL5-2023-D6-01-02
Generation of scenarios for development, training, virtual testing and validation of CCAM systems (CCAM Partnership)

EXPECTED OUTCOME

- **Improved validation** of CCAM systems enabled by real and synthetic test scenarios, with the widest possible coverage of possible traffic situations on European roads
- Efficient **provision of relevant test scenarios** in a permanently updated and dynamic EU-wide database
- **Accelerated AI development** and training making use of this dynamic scenario database
- Use of the most appropriate approaches (e.g. vehicle-based versus (quasi-)stationary sensor units) to **record relevant traffic data**, as a basis for the derivation of test scenarios, in different traffic environments according to extending ODDs
- **Commitment** from key stakeholders to the **validation methodology**, the scenario database and its usage and to the provision of significant volumes of raw data and/or scenarios extracted from such data

European Commission

HORIZON-CL5-2023-D6-01-02
Generation of scenarios for development, training, virtual testing and validation of CCAM systems (CCAM Partnership)

TYPE OF ACTION

- **RIA** – Research and Innovation Actions
- Expected **TRL 5** by the end of the project

EU CONTRIBUTION

- Per project: **20 M€**
- Total: **20 M€**

TIMING

- Call opening: **4 May 2023**
- Call closing: **5 September 2023**

Eligibility condition: If projects use satellite-based earth observation, positioning, navigation and/or related timing data and services, beneficiaries **must** make use of Copernicus and/or Galileo/EGNOS (other data and services may **additionally** be used).

European Commission

HORIZON-CL5-2023-D6-01-03
Infrastructure-enabled solutions for improving the continuity or extension of Operational Design Domains (ODDs) (CCAM Partnership)

SCOPE

- Improve the **availability of real-time information** beyond the reach of vehicle on-board sensors by developing and demonstrating system, data and service architectures for Digital Twins for road transport infrastructure

- **Remove the discontinuity of the GNSS** positioning signal in challenging road environments such as urban canyons and canopies, tunnels, mountainous areas and northern latitudes. Improve robustness and reliability of positioning information

- Develop **novel solutions for the management**/ navigation of **road works** and **incident** sites for CCAM enabled vehicles, making high-risk zones safer for road users (incl. VRUs), but also for road workers and rescue organisation personnel

➢ Safe and secure communication, transfer learning, distributed data processing to improve the vehicles' capabilities to cope with infrastructure imperfections (such as sub-standard infrastructure maintenance) and harmonised local traffic management measures at road works and incident sites to support safe navigation

HORIZON-CL5-2023-D6-01-03
Infrastructure-enabled solutions for improving the continuity or extension of Operational Design Domains (ODDs) (CCAM Partnership)

EXPECTED OUTCOME

- **Infrastructure-enabled solutions** improving the continuity of or extending the Operational Design Domains (ODDs)
- System, data and service architectures for **Digital Twins** for road transport infrastructure developed and feasibility proven
- Input to **standardisation**, also **legal**, **trust** and **data security** aspects as well as business and governance models (including organisational processes and right of use of data) for **Digital Twins**
- **Advanced cooperation of CCAM actors** in a robust and functionally safe manner for reasons of ODD continuity/extension, enhancing the readiness of CCAM services and their future extendibility
- Proposed actions should build on **NAP** (National Access Points) and a **Common European Mobility Dataspace** to ensure alignment with existing framework.

HORIZON-CL5-2023-D6-01-03
Infrastructure-enabled solutions for improving the continuity or extension of Operational Design Domains (ODDs) (CCAM Partnership)

TYPE OF ACTION

- **IA** – Innovation Action
- Expected **TRL 6-7** by the end of the project

EU CONTRIBUTION

- Per project: **6 M€**
- Total: **12 M€**

TIMING

- Call opening: **4 May 2023**
- Call closing: **5 September 2023**

Eligibility condition: If projects use satellite-based earth observation, positioning, navigation and/or related timing data and services, beneficiaries **must** make use of Copernicus and/or Galileo/EGNOS (other data and services may **additionally** be used).

European Commission

HORIZON-CL5-2023-D6-01-04
Integrating European diversity in the design, development and implementation of CCAM solutions to support mobility equity (CCAM Partnership)

SCOPE (1/2)

- **Evaluate** how **cultural** and **regional particularities** have led to different transport infrastructure, societal settings, travel needs and behaviours
- **Develop methodologies** that take into account the **impact** of cultural and regional diversities on attitudes, demand, uptake, and implementation of CCAM solutions, early in the design and development phase
- **Develop** principles, criteria and **recommendations** for the **developers** and **implementers** of CCAM systems and services (including local decision-makers and policy makers) to integrate geographical and cultural factors
- **Propose indicators** and approaches to enable a **fair integration** of cultural and regional factors in CCAM impact evaluation frameworks to support mobility equity

HORIZON-CL5-2023-D6-01-04
Integrating European diversity in the design, development and implementation of CCAM solutions to support mobility equity (CCAM Partnership)

SCOPE (2/2)

- Develop **mechanisms to transfer knowledge** to capture patterns and recurring typologies of settlements, infrastructure and travel indicators in Europe to foster dissemination of people-centric and sustainable CCAM solutions

- **Demonstrate** the developed **recommendations** and the **knowledge transfer mechanism** by applying them in four pilot activities for CCAM systems and/or services. The majority of pilots should be about shared services and cover passenger and goods mobility, although a primary focus on either people or goods mobility is possible. The pilots can be local, regional or national but are expected to represent cultural and geographical diversity in at least four European countries

HORIZON-CL5-2023-D6-01-04
Integrating European diversity in the design, development and implementation of CCAM solutions to support mobility equity (CCAM Partnership)

EXPECTED OUTCOME

- Increased knowledge about the influence of **geographical** and **cultural dimensions** on the societal acceptability, uptake and use of CCAM
- **Integration** of geographical and cultural factors in the **planning**, **design**, **development** and implementation of CCAM solutions by CCAM developers and implementers (including decision-makers)
- A strategy to **support the fair deployment** of CCAM systems and services, adapted to local contexts and cultures, leading to enhanced acceptability and willingness to use CCAM in Europe, thereby contributing to CCAM's expected societal benefits
- Increased **transferability of solutions**, experiences, knowledge and lessons learnt between European cities, regions and projects that integrate geographical and cultural diversities in the development and deployment of CCAM

HORIZON-CL5-2023-D6-01-04
Integrating European diversity in the design, development and implementation of CCAM solutions to support mobility equity (CCAM Partnership)

TYPE OF ACTION

- **RIA** – Research and Innovation Actions
- No **TRL**

EU CONTRIBUTION

- Per project: **4 M€**
- Total: **8 M€**

TIMING

- Call opening: **4 May 2023**
- Call closing: **5 September 2023**

Eligibility condition: If projects use satellite-based earth observation, positioning, navigation and/or related timing data and services, beneficiaries **must** make use of Copernicus and/or Galileo/EGNOS (other data and services may **additionally** be used).

European Commission

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)

SCOPE (1/2)

- **Develop a roadmap** to support the **socio-economic transition to CCAM** and provide prerequisites for job growth, strengthened innovation capabilities, and short- and long-term demands for skills
- Define and assess how **expectations for job growth** enabled by CCAM development and deployment can be achieved. Identify mechanisms and options to enhance innovation capabilities to develop competitive solutions
- **Analyse socio-economic and employment effects** of CCAM across the full value-chain, such as income segregation, geographic dispersion, workforce overcapacity/shortages, considering various penetration degrees of mobility solutions with automation levels 3-5
- Identify and assess **short to long-term demands for updated skills** (as well as skills and gender gaps) and enhanced knowledge regarding the full range of CCAM-related professions along its entire value chain, both for the mobility of persons and delivery of goods

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)

SCOPE (2/2)

- Design schemes for the **development and enhancement of skills to support future CCAM jobs** and innovations
    - This is to be done throughout **educational chains** by looking at different use cases, paying particular attention to potential mismatches in skills and spatial demand and supply
    - Consider at least **three use-cases** for groups of people that are directly or indirectly involved in the provision of CCAM services. A variety of angles should be covered, including young persons, gender, private and public sector, passenger mobility and freight

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)

EXPECTED OUTCOME

- Improved **understanding** of the **short-**, **medium-** and **long-term employment effects** and wider **socio-economic** effects resulting from CCAM deployment, taking into account the full range of professions associated with CCAM services for the movement of people and goods. This includes insight on the demand of new and updated skills, as well as plans to develop and enhance these skills in order to realise new opportunities and future needs arising from CCAM deployment.

- **High awareness within the stakeholder community** about the effects of CCAM on jobs, along the entire CCAM value chain, and recommendations on how to address those effects.

- **Prerequisites for job creation** and **job growth** through strategies that boost innovation capabilities and develop competitive CCAM solutions and associated businesses.

- Support the development of **educational plans and activities** (e.g. for curricula, Lifelong learning initiatives) as well as **reskilling efforts** to develop human capital in innovative mobility systems and services

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)

TYPE OF ACTION

- **RIA** – Research and Innovation Actions
- No **TRL**

EU CONTRIBUTION

- Per project: **2 M€**
- Total: **2 M€**

TIMING

- Call opening: **4 May 2023**
- Call closing: **5 September 2023**

Eligibility condition: If projects use satellite-based earth observation, positioning, navigation and/or related timing data and services, beneficiaries **must** make use of Copernicus and/or Galileo/EGNOS (other data and services may **additionally** be used).

European Commission

Thematic area

Multimodal transport, infrastructures and logistics

European Commission

HORIZON-CL5-2023-D6-01-06
Zero-emission e-commerce and freight delivery and return choices by retailers, consumers and local authorities

SCOPE

Building on existing methods and standards, and 'CountEmissions EU':

- Assess **conditions** making zero-emission **delivery and return options** attractive to consumers and **motivations** to change their behaviours towards greener choices
- **Co-designing** with and engaging consumers and retailers, develop a **set of zero-emission delivery and return options**, identify the **more suitable** to motivated customers' groups, develop **guidelines** to raise awareness and **communicate transparently**
- Define **scalable and generic processes** and requirements for the **retailers**, develop and analyse different **scenarios** to implement measures
- **Test and demonstrate** proposed solutions, define evaluation **indicators**
- Develop recommendations and a **toolset with and for local authorities**, strengthen the **coordination among all stakeholders** (and with the network of cities CIVITAS)

European Commission

HORIZON-CL5-2023-D6-01-06
Zero-emission e-commerce and freight delivery and return choices by retailers, consumers and local authorities

EXPECTED OUTCOME

- Better understanding of **customers' willingness and motivations** to choose more sustainable delivery and return options.
- **Information on environmental footprint of deliveries and returns** are provided transparently and in an understandable way by the retailers to consumers.
- A **wider range of zero-emission delivery and return options** and related **incentive schemes** are **co-designed** with customers and proposed by retailers.
- **At least 50% of the delivery and return options/processes** adopted by the retailers and logistics operators involved in the action and available to their customers are zero-emissions.
- Better understanding of **local authorities' ability to influence greener choices** of delivery and return options by consumers. **Recommendations** proposed to local authorities and the EU on the impact of relevant policy levers and possible regulations to influence greener choices of delivery and return options.

European Commission

HORIZON-CL5-2023-D6-01-06
Zero-emission e-commerce and freight delivery and return choices by retailers, consumers and local authorities

TYPE OF ACTION

- **RIA** – Research and Innovation Actions
- Expected **TRL 5** by the end of the project

EU CONTRIBUTION

- Per project: **3 M€**
- Total: **6 M€**

TIMING

- Call opening: **4 May 2023**
- Call closing: **5 September 2023**

Eligibility conditions:
If projects use satellite-based earth observation, positioning, navigation and/or related timing data and services, beneficiaries **must** make use of Copernicus and/or Galileo/EGNOS (other data and services may **additionally** be used).
If the activities proposed involve the use and/or development of **AI-based systems and/or techniques**, the technical and social robustness of the proposed systems has to be described in the proposal.

European Commission

HORIZON-CL5-2023-D6-01-07
Operational automation to support multimodal freight transport

SCOPE

- Identify **gaps** in automated transport technologies and logistics operations between modes and hubs.
- Assess **benefits** of autonomous **vehicles, rolling stock and vessels** and seamless multimodal automatic cargo transport across transport modes. Investigate the requirements and benefits of seamless and automated logistics **operations**, particularly in **multimodal terminals and hubs**, with a focus on **intra-European freight flows**.
- **Compare and demonstrate** (through simulation) **benefits** of **operational automation** to current standard flows and operations in all modes.
- Design, analyse and evaluate **business and governance models** as well as **organisational change issues and incentives** to reduce investment costs and support the implementation of automated solutions for logistics and multimodal freight transport.
- Develop and propose **recommendations** for possible regulatory and policy actions supporting the adoption of automated solutions for logistics and multimodal freight transport.

HORIZON-CL5-2023-D6-01-07
Operational automation to support multimodal freight transport

EXPECTED OUTCOME

- Better definition of the **operational automation requirements** for seamless multimodal automatic freight transport
- Clearly **assessed benefits**, in terms of reduced social and environmental impacts (e.g. GHG, congestion, working conditions, employment rate and safety) and reduced logistics and freight transport costs, as well as technological gaps of hubs' automation
- **Strategies** to reduce the investment cost in this sector and support the implementation of automated solutions for logistics and multimodal freight transport are proposed
- **Recommendations** for possible regulatory and policy actions
- **Synergies** are established among rail, road, aviation, waterborne and alternative innovative modes of transport research actions on automation relevant for freight transport

HORIZON-CL5-2023-D6-01-07
Operational automation to support multimodal freight transport

TYPE OF ACTION

- **RIA** – Research and Innovation Actions
- Expected **TRL 5** by the end of the project

EU CONTRIBUTION

- Per project: **4 M€**
- Total: **8 M€**

TIMING

- Call opening: **4 May 2023**
- Call closing: **5 September 2023**

Eligibility conditions:
If projects use satellite-based earth observation, positioning, navigation and/or related timing data and services, beneficiaries **must** make use of Copernicus and/or Galileo/EGNOS (other data and services may **additionally** be used).
If the activities proposed involve the use and/or development of **AI-based systems and/or techniques**, the technical and social robustness of the proposed systems has to be described in the proposal.

European Commission

HORIZON-CL5-2023-D6-01-08
Future-proof GHG and environmental emissions factors for accounting emissions from transport and logistics operations

SCOPE

- **Review** the existing emission factors derived from the key global sources.
- Perform the **gap analysis** and **develop emission factors** for categories not yet covered, especially for energy-based emissions
- Establish a **clearer set of rules** regarding (1) Methodology, (2) Boundaries of calculation, (3) Common sets of fuel / energy specifications, (4) Assumptions about input parameters, (5) Basis for new energy carriers to be calculated quickly and consistently.
- Establish a **simple guidance** to the transport sector.
- The project's main **governance** to provide for direct **involvement of all relevant stakeholders**, and relevant European Commission services.
- **Build on the existing and emerging EU regulatory frameworks** (Fit-for-55, CountEmissions EU, ISO standard 14083)

European Commission

HORIZON-CL5-2023-D6-01-08
Future-proof GHG and environmental emissions factors for accounting emissions from transport and logistics operations

EXPECTED OUTCOME

- Establish a **comprehensive set of harmonised GHG emission factors**, for transport and logistics operations;
- Explore **synergies and establish horizontal cooperation** among various organisational structures developing GHG emission factors for transport and logistics.

European Commission

HORIZON-CL5-2023-D6-01-08
Future-proof GHG and environmental emissions factors for accounting emissions from transport and logistics operations

TYPE OF ACTION

- **CSA** – Coordination and Support Actions

EU CONTRIBUTION

- Per project: **3 M€**
- Total: **3 M€**

TIMING

- Call opening: **4 May 2023**
- Call closing: **5 September 2023**

Eligibility condition: If projects use satellite-based earth observation, positioning, navigation and/or related timing data and services, beneficiaries **must** make use of Copernicus and/or Galileo/EGNOS (other data and services may **additionally** be used).

European Commission

HORIZON-CL5-2023-D6-01-09
Climate resilient and safe maritime ports

SCOPE

- Develop solutions for **ensuring the performance and safety** of a) seaports, b) connected inland waterways infrastructure c) connected hinterland land infrastructure, during periods of extreme weather events while **minimizing capacity loss of infrastructures to support informed decision** making during and after these events
- Develop standard procedures and methodologies to **foster the implementation of measures** (structural, operational, institutional and social) to address climate risks and hazards
- Include at **least three pilot demonstrations** of the proposed solutions in operational environment (**minimum at TRL7**) for **three seaports with connected inland waterways** infrastructure on CEF corridors

HORIZON-CL5-2023-D6-01-09
Climate resilient and safe maritime ports

EXPECTED OUTCOME

- **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
- Present **guidelines** describing measures (structural, operational and institutional) **to address climate risks and hazards** and provide guidance on how to screen and evaluate options.

European Commission

HORIZON-CL5-2023-D6-01-09
Climate resilient and safe maritime ports

TYPE OF ACTION

- **IA –** Innovation Actions
- Expected **TRL 7** by the end of the project

EU CONTRIBUTION

- Per project: **7 M€**
- Total: **14 M€**

TIMING

- Call opening: **4 May 2023**
- Call closing: **5 September 2023**

European Commission

Thematic area:

Joint CCAM – 2Zero –Cities' Mission topic

European Commission

HORIZON-MISS-2023-CIT-01-01
Co-designed smart systems and services for user-centred shared zero-emission mobility of people and freight in urban areas (2Zero, CCAM and Cities' Mission)

SCOPE

- Establish a **co-design process** between local public authorities, city planners, end users and automated and zero-emission mobility systems providers.
- **Build upon** the results of recent **collaborative research**.
- **Demonstrate** solutions and services for people mobility and freight transport.
- Develop **open**, **resilient** systems and **replicable solutions** that can be scaled-up within a city.
- Co-design **implementation plans** for local and regional transport authorities.
- **Evaluate cost and benefits** of the systems and services tested.
- Support the **development of skills**.
- Disseminate results via the **2Zero** and **CCAM partnerships** and the **Mission Platform** and via relevant **events**.

European Commission

HORIZON-MISS-2023-CIT-01-01
Co-designed smart systems and services for user-centred shared zero-emission mobility of people and freight in urban areas (2Zero, CCAM and Cities' Mission)

EXPECTED OUTCOME

- Mobility solutions that respond to **people's and cities' needs**, co-designed with local authorities, citizens and stakeholders, tested and implemented in cities to achieve **climate neutrality** by 2030

- **Transferrable solutions** for mobility of people and goods exploiting the combined potential of **electrification**, **automation** and **connectivity** to significantly and measurably contribute to:

- The Cities Mission's objective of climate neutrality by 2030;
- Reduction of CO2 emissions supporting the 55% reduction goal for 2030;
- Lower energy demand;
- Improved air quality, less noise;
- Improved safety particularly for vulnerable road users;
- Reduced congestion, more reliable, predictive travel times and more efficient transport operations;
- More effective use of urban space also considering the other transport modes and multimodal hubs;
- Improved inclusiveness, especially by facilitating equitable and affordable access to mobility for all users, in particular for people with reduced mobility.

European Commission

HORIZON-MISS-2023-CIT-01-01
Co-designed smart systems and services for user-centred shared zero-emission mobility of people and freight in urban areas (2Zero, CCAM and Cities' Mission)

TYPE OF ACTION

- **IA** – Innovation Action
- Expected **TRL 7** by the end of the project

EU CONTRIBUTION

- Per project: **25 M€**
- Total: **50 M€**

TIMING

- Call opening: **10 January 2023**
- Call closing: **27 April 2023**

Eligibility condition:
If projects use satellite-based earth observation, positioning, navigation and/or related timing data and services, beneficiaries **must** make use of Copernicus and/or Galileo/EGNOS (other data and services may **additionally** be used).

Other condition:
Collaboration between the consortia awarded as well as with the **2Zero** and **CCAM Partnerships** and the **Cities Mission Platform** is essential. Appropriate provisions for activities and resources aimed at enforcing this collaboration are included in the work plan of the proposal.

European Commission

Thank you for your attention

European Commission

European Commission

THANK YOU FOR YOUR PARTICIPATION!
Cluster 5 Info Days on 15-16.12.2022

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Research and Innovation

CLUSTER 5 Climate, Energy, Mobility

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European Commission

CLUSTER 5 Climate, Energy, Mobility

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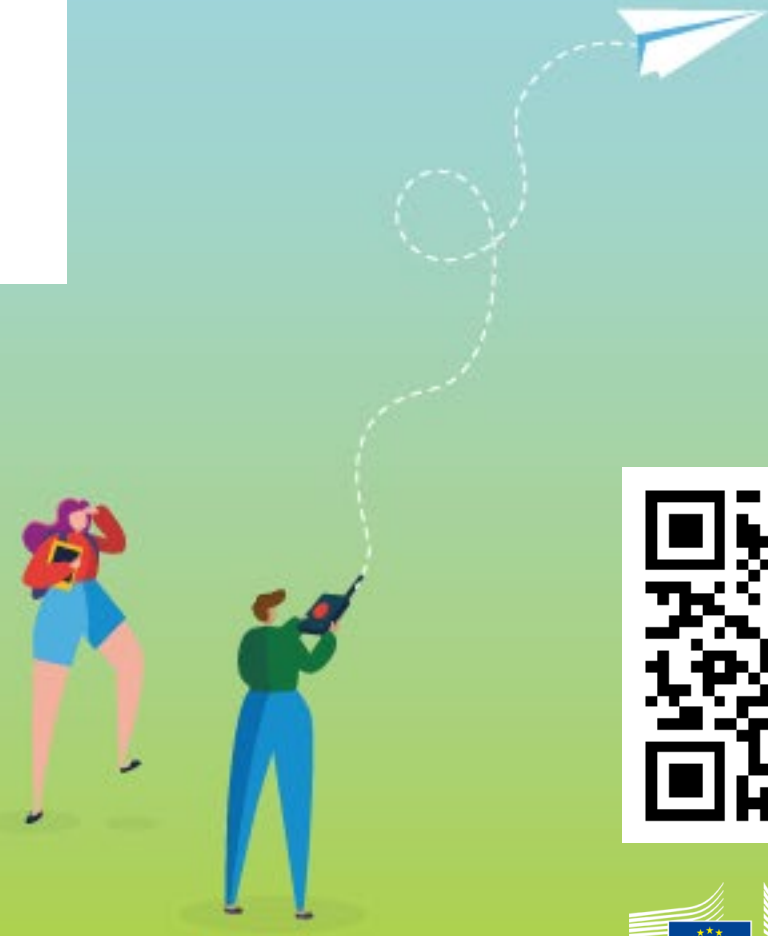

European Commission