

CCAM WORK PROGRAMME 2025

CCAM Cluster	Topic title	Type of action	Budget (EUR million)	# of projects expected to be funded
	Advancing remote operations to enable the sustainable and smart mobility of people and goods based on operational and societal needs – Societal Readiness Pilot	RIA	12	2
1	Preparing for large-scale CCAM demonstrations – Societal Readiness Pilot	CSA	4,5	1
2	Next-generation environment perception for real world CCAM operations: Error-free and secure technologies to improve energy-efficiency, cost-effectiveness, and circularity	RIA	8	2
3	Integration of human driving behaviour in the validation of CCAM systems	RIA	5	1
5	Approaches, verification and training for Edge-AI building blocks for CCAM Systems	RIA	4	1
7	Federated CCAM data exchange platform	IA	4	1





Orga	nisation name	University of Zilina (UNIZA)
/ or e brou	est in the call and expertise to be ght into a ortium	 Support the definition of the prerequisites for performing large-scale demonstration projects: assessment of physical and digital infrastructure, assessment of approval frameworks for public road testing in the local context, identification, readiness assessment and formulation of recommendations for further infrastructure development for potential demonstration sites in Slovakia Support the initiation of a cross-sector stakeholder forum for the definition of use case relevant projects in different domains: co-creation and involvement of local stakeholders (citizens, municipalities, relevant ministries, public transport operators, service providers, automotive industry) Support the preparation and refinement of methodologies, test procedures and tools for the execution of field tests and efficient data management Provide a critical perspective from the "smart city" literature, i.e. user acceptance vs technological lock-in and risks of dead-ends: data collection & analysis of technology acceptance, identification of rebound risks
Conta	act details	tibor.petrov@uniza.sk



Organisation name	IN-MOVE
Interest in the call and / or expertise to be brought into a consortium	 Applying the learnings from running CCAM projects with in large-scale CCAM demos such as MODI, ULTIMO or PoDIUM. Provide use cases to analyse the application in large-scale pilots for passenger and logistics. Develop and implement a data Space - Barcelona area for public and private passenger mobility.
Contact details	Vicent Pastor <u>otp@railgrup.net</u> IN-MOVE



Organisation name	FZI Research Center for Information Technology
Interest in the call and / or expertise to be brought into a consortium	 Background and expertise Several L4 test vehicles (2 shuttles, 4IV, cargo bikes) with own AD stack Public Test Area for AD incl. >24 intersections (sensors, connectivity, actors, edge computing) Distributed inference (vehicles + infrastructure) including EdgeAI Human-Machine-Interaction based on Game theory and reinforcement learning Human Vehicle Interaction, Validation of CCAM behavior and HMIs Interests and ideas Enhancing VRU Protection by V2X Integration Extend Control Center to integrate Infrastructure + Vehicles of Large-Scale Demonstration Development of Cooperative Driving Functions (Platooning,) Distributed Smart Monitoring of Automated Vehicle Functions and Passengers for Remote Operation Research on Human-CCAM Interaction & acceptance-improving decisions in CCAM development
Contact details	Alexander Viehl, Division Manager, <u>viehl@fzi.de;</u> +497219654414



Hypervisoul	
Expertise to be brought into a consortium Our co-founding team brings over 10 years of hands-on	At Hypervisoul , we bring together the right vision , expertise , and technology to transform Traffic Management Systems (TMS) for the orchestration and guidance of Connected and Automated Vehicles (CAVs).
experience in deploying and operating large-scale CAV demonstrations and trials, for both road and rail sectors. We have extensive expertise in	We are developing a System-of-Systems that integrates all key stakeholders in traffic management and CAV ecosystems. With strong expertise in CAV onboard technologies and Intelligent Transport Systems (ITS), we set the benchmark for innovation in the field.
planning, execution, validation, and post-data analysis, ensuring seamless integration and real-world impact.	Recently, we have successfully adapted our solution for very light connected and automated vehicles in rail applications, expanding our impact to new mobility sectors.
Contact details	José Triano jose.triano@hypervisoul.com



ccam.eu

Organisation name	Hellenic Institute of Transport (HIT) - Centre for Research and Technology Hellas (CERTH)
Interest in the call and / or expertise to be brought into a consortium	 Concept initiator & Technical Coordinator of SHOW (SHared automation Operating models for Worldwide adoption) Innovation Action - <u>https://show-project.eu/-</u> Biggest Innovation Action on shared CCAM Overall design and monitoring of deployment across all real life sites (12 – 24 months of operation): ≈ 200,000 passengers & 5500 parcels across 20 open and mixed traffic environments and 4 controlled environments with 72 SAE L3+/L4 AVs of all types (buses, minibuses, shuttles, robotaxis, delivery robots, modular vehicles) conducting large-scale pilots in urban and peri-urban areas. Dashboard of CCAM fleet performance and passenger subjective data across distinct KPIs developed and maintained by CERTH - <u>https://show-project.eu/show-dashboard/</u> Deployer in Greek Trikala and Thessaloniki Pilots of robo-taxi service with CERTH L4 retrofitted passenger vehicle (Ford Mustang Mach E) Concept initiator & Technical Coordinator of AUGMENTED CCAM (Augmenting and Evaluating the Physical and Digital Infrastructure for CCAM deployment) Innovation Action - <u>https://augmentedccam.com/-</u> Deployment of PDI for CCAM Concept initiator & Scientific Coordinator of Diversify CCAM (Diversify CCAM by Integrating the European Cultural And Regional Variations In The Design And Implementation Of Citizen-friendly Systems To Foster Mobility Equity - <u>https://diversify-ccam.eu/</u> - Societal Readiness Pilot) Know-how and interest in contributing to all aspects addressed by the topic; more information upon request
Contact details	Maria Gkemou – mgemou@certh.gr, Research Director



Organisatio	on name	RATP
Interest in t / or expertise brought inter consortium	se to be o a	 Interest in joining a consortium for working on: Large-scale demonstrators/service pilots interests: Having more than one vehicle, vehicles from different manufacturers, and non-autonomous vehicles Local teams and their missions (and possibly the use of local human recourses for other purposes)
	RATP GROUP	resources for other purposes) Potential role: • Representing Public Transport Operators
		Our expertise: RATP Group has operated 15+ projets of autonomous mobility, transported 200,000+ passengers over 10,000+kms Member of the CCAM Delegation, as Public Transport Operators Delegate
Contact det	ails	Gilles TAUZIN – Innovation Director - gilles.tauzin@ratp.fr



Organisation name Interest in the call and / or expertise to be brought into a consortium	RISE Research Institutes of Sweden Measuring societal integration Measuring technical progress Building on earlier experiences in e.g. ROADVIEW and SUNRISE Test facilities; EMC chambers, Asta Zero etc	<section-header></section-header>
Contact dataila	Piraitta Paabalt@ri oo martin confrida	Absolution Acceptance, Behaviours, Resociety accepting: The gaps between TOD and Vehicle ODD
Contact details	Birgitta.Raaholt@ri.se, martin.sanfrids	son@ri.se



Organisation name	Fondazione LINKS
Interest in the call and / or expertise to be brought into a consortium	 Possibility to involve the CCAM Turin ecosystem, leveraging the strong collaboration already established in previous CCAM demonstrations (e.g., SHOW, IN2CCAM and ToMove (national)) Expertise in the experimentation of CCAM services from different perspectives e.g., technical, authorization, GDPR, etc
	 Expertise in the design and development of a CCAM-Digital Twin (for the City of Turin) Expertise in existing infrastructure including the management of and data collection from RSUs and cameras at real junctions Expertise in the use of short-range and/or 5G connectivity for CCAM Expertise in SSH aspects: evaluation of CCAM solutions acceptance, co-design of CCAM services with local stakeholders and citizens.
Contact details	Daniele Brevi, Brunella Caroleo daniele.brevi@linksfoundation.com, brunella.caroleo@linksfoundation.com



APRR	
Interest in the call and / or expertise to be brought into a	Highways are a privileged playground for autonomous driving, automation should help to increase safety, I2V connectivity can improve CAVS ODD and help us to better manage safety and traffic.
consortium	 Thanks to EU financed previous projects (C-ROADS, InDiD and the ongoing SCALE project), APRR is able to propose and maintain several test sites on its network constituting a Living Lab of about 140 km. Our C-ITS Architecture based on two Traffic Management Systems and a Toll Management System, with Short Range communication Technologies (ITS-G5 and 4G PC5) and Long Range communication technologies can propose several test sites for CAVS: Day 1 Use Cases along the entire road network (accident, roadworks, vehicle breakdown) 1 Toll Gateway equipped with RSUs which broadcasts messages enabling a CAV to cross a TollGate (ODD extension) 1 Tunnel equipped with RSUs. The following Use Cases will be available by the end of SCALE in 2028: CAV facing lane closures in a tunnel, CAV facing an emergency closure because of a vehicle or infrastructure in fire in a tunnel (dealing with vehicles inside the tunnel and arriving at the tunnel). We also operate several dedicated carpooling lanes where the subject of automated shuttles driving on these lanes in a mixed traffic could be addressed.
Contact details	APRR - Benoît VUADELLE - CCAM and C-ITS programs manager - benoit.vuadelle@aprr.fr



Organisation name	NAITEC • Mobility and Mechatronics Technological Center Navarra, Spain
	NAITEC Urban Test Bed in Pamplona, Spain, offers a unique Living Lab for real-world testing in Europe , ideal for large-scale CCAM demonstrations. Our 2.3 km urban circuit is fully sensorized for controlled testing scenarios, with a control room that receives and analyses all data using FIWARE standard. This environment is perfect for preparing and validating large-scale CCAM demonstrations under complex real-world conditions.
	 Refrigerated last-mile delivery: Autonomous electric vehicle with a refrigerated locker for efficient and sustainable urban last-mile delivery, sending real-time information to the cloud and service provider.
	• Controlled testing scenarios: Supports testing in mixed traffic conditions and confined areas, expandable to the city and region.
Interest in the call and / or	Cross-border region: interoperability of systems analysis.
expertise to be brought into a consortium	Collaboration with key stakeholders: regional OEM and local authorities
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Contact details	Dr. Nere Garmendia, Head of Mobility Unit, ngarmendia@naitec.es



Organisation name	Rhein-Main-Verkehrsverbund (RMV), DB Regio, Ruter & DLR
Interest in the call and / or expertise to be brought into a consortium	 We bring in: experience and expertise from existing Level-4-projects in ULTIMO & KIRA in public transport modelling the ODD by scenario-based approaches services supporting the in-vehicle automation by connectivity and remote operation tooling Tooling suite and SSH expertise for societal readiness monitoring and assessment We are building a consortium with a clear focus on operational deployment and a vertical approach for Level 4 automation We are looking for : Partners to complement logistics use cases Industrial partners interested in contributing to a plan driven by operational needs Expertise in stakeholder engagement and collaboration
Contact details	Thorsten Möginger (RMV) & Svetlana Drümmer (DB) & Dimitris Milakis (DLR) thorsten.moeginger@rms-consult.de; Svetlana.Druemmer@deutschebahn.com, Dimitrios.Milakis@dlr.de



Organisation name	Federal Highway and Transport Research Institute (BASt)
Interest in the call and / or expertise to be brought into a consortium	 UseCase "Infrastructure management of road tunnels" Infrastructure requirements for the use of C-ITS in road tunnels (informal, technical) Requirements for standardization & harmonization (ETSI) Provision of a road tunnel as pilot
Contact details	Anne Lehan (<u>lehan@bast.de</u>)



Organisation name	ISTANBUL OKAN UNIVERSITY (OKAN)
Interest in the call and / or expertise to be brought into a consortium	Being the leading university in Turkiye on autonomous driving development and mobility, OKAN have connections with multiple municipalities (ie. İstanbul, Konya, Bursa etc.) which have extremely complex traffic structures as well as populations up to 16 million people. Moreover, the university have concluded the OPINA project with support from EU within the IPAII program, the RECIPROCITY (H2020) project and organized a cluster of 30+ institutions and companies in Turkiye that work on autonomous driving and autonomous vehicles technologies. Thus, OKAN can take part in definition and dissemination of demonstrator best practices within and with the inputs from the Turkish ecosystem.
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Organisation name	ΤΝΟ
Interest in the call and / or expertise to be brought into a consortium	Supporting the identification of Logistic or public transport use case(s) in The Netherlands' landscape in terms of local stakeholders, PDI and other facilities (e.g. extending on UC-NL MODI) Safety assessment and assurance (building on outcome of SUNRISE, SYNERGIES, V4Safety), traffic impact, pilot evaluation including deployment scenarios, business cases and upscaling plans (roadmaps) Involving experts from previous CCAM projects addressing all clusters of CCAM concerning technical developments and SHH
Contact details	Sven.Jansen@tno.nl



 towards full deployment UITP membership also includes vehicles & equipment manufacturers, public transport authorities, and service providers across the CCAM ecosystem 		
 / or expertise to be brought into a consortium at 24 sites across Europe UITP membership includes many public transport & shared mobility operators across Europe with experience in piloting CCAM vehicles in mixed traffic & closed environments, and with long-term plans to move towards full deployment UITP membership also includes vehicles & equipment manufacturers, public transport authorities, and service providers across the CCAM ecosystem 	Organisation hame	UITP - International Association of Public Transport
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Contact details <u>umberto.guida@ultp.org</u> ; jonn.mcsweeney@ultp.org	Contact details	umberto.guida@uitp.org; john.mcsweeney@uitp.org



Organisation name	Forum Virium
Interest in the call and / or expertise to be brought into a consortium	(Forum Virium) Helsinki is concerned about possible emphasis in the future large-scale demonstrations on on-street CCAM vehicles ie cars, busses and in future vans and trucks. We already have smaller automated vehicles driving in our sidewalks and bicycle lanes, and the gap between them and bigger vehicles is constantly narrowing. The future CCAM ecosystem will no doubt be comprised of vehicles of different size, speed, functionality and category, resulting in a diverse traffic system. Hence the preparation for large-scale demonstrations should address the "widening" of the scope, aside considering growth of CCAM vehicle volumes
	Aside the roughly 10 CCAM pilots since 2015, a new project CHORUS (HEU, 07/25-12/28) focuses on orchestration of autonomous fleets, Helsinki focus is on traffic management of off-street CCAM vehicles
Contact details	Sami.sahala@forumvirium.fi



Organisation name	LIST (Luxembourg Institute of Science and Technology)
Interest in the call and / or expertise to be brought into a consortium	We can contribute to the development of prototypes and large-scale demonstrations. LIST has strong relationships with key stakeholders, including CFL (the main transport company in Luxembourg) and POST (the country's primary telecommunications operator), as well as research institutions actively engaged in CCAM research, such as Politecnico di Bari and IMEC (which are, among many others, partners in the European project IN2CCAM). This established network enables us to work in a coordinated and well-integrated environment, fostering collaboration and innovation. We can contribute also in establishing assessment methodologies focused on large scale demonstrations. We have contributed on H2020 PROJECTS such as 5GMOBIX and IN2CCAM.
	The Luxembourg has high political ambition on Autonomous Driving. The related strategy issued by the government should be published mid 2025. The country foresee a full operational regulatory an legal framework as early as 2027. Some US and Chinese companies advanced in CCAM are installing research team in the country.
Contact details	pascal.lhoas@list.lu



	Organisation name	Met Office
/	nterest in the call and or expertise to be prought into a consortium	Met Office, the UK's National Meteorological Service, has extensive experience in providing transport meteorology and consultancy both domestically and internationally. Since 2020, we have been involved in UK and European government-funded projects and standards related to CCAM sensors, ODD, MRX, and Space Weather. Our expertise enables us to support consortia in addressing various aspects of the dynamic weather environment, including the challenges
		and opportunities associated with CCAM sensors and ODD.
	Contact details	michael.szczepanski@metoffice.gov.uk



Polytechnic University of Bari, Italy - POLIBA	
Interest in the call and / or expertise to be brought into a consortium	POLIBA has a long experience in EU HORIZON projects on transport of people and goods (CO-GISTICS, AEOLIX, FENIX, optiTruck), CCAM (IN2CCAM, CHORUS), as well as on related fields, like Electric Mobility (NEMO, eCharge4Drivers) and communications (6G-TWIN). On these projects, POLIBA develops several activities, such as project, WPs and Tasks management, design and implementation of tools using modelling, simulation, AI, optimization, automation, Digital Twins, etc., management of Living Labs in Bari, involvement of different types of stakeholders, development of Use Cases and definition and use of evaluation methodologies and assessment of KPIs. For this call, POLIBA is interested in collaborating to establishing foundations for future use cases in road transport and logistics and to deeply understanding the needs and concerns of different social groups, with specific reference to the Bari environment.
Contact details	prof. Maria Pia Fanti - mariapia. <u>fanti@poliba.it</u> prof. Walter Ukovich - ukovich@gmail.com



Organisation name	EIT Urban Mobility
Interest in the call and / or expertise to be brought into a consortium	 Synergies with the EIT Urban Mobility funding programme (alignment with needs and criteria identified for ccam demonstrations → CSA multiplier effect) Knowledge from EIT Urban Mobility portfolio of projects (lessons learned, best practices, technologies/innovations, impact, etc). Stakeholder engagement, communication and dissemination leveraging on EIT Urban Mobility community (1,100 organisations from industry, startups, local authorities, research/universities; 50,000+ followers on LinkedIn; organisers of the Tomorrow.Mobility event (25,000+ attendees); MobilityTalks (series of workshops); Mobility Innovation Marketplace (11,000+ subscribers). Identification of potential business models for different large-scale demonstrators and their market readiness.
Contact details	- Policy recommendations albert.sole@eiturbanmobility.eu



Organisation name	ETRA I+D
Interest in the call and / or expertise to be brought into a consortium	 ETRA's possible contributions to the project would be: As infrastructure providers and traffic managers, contribute to the definition of requirements, priorities and specific use cases (public transport, traffic optimisation, shared mobility, logistics, etc.) necessary for the implementation of large-scale demonstrations mainly at urban level. Since ETRA has close collaboration with many cities, urban road operators, transport authorities and traffic management systems operators, contribute to their engagement in future large-scale demonstrations. Participation in stakeholders' forums set up for this purpose. Due to its experience in urban pilot's development and implementation, contribution to the definition of methodologies, test procedures and tools for the execution of field tests. Liaison with other CCAM projects and results: AUGMENTED CCAM, PoDIUM and other CCAM projects recently approved.
Contact details	Jorge Suárez (j <u>suarez.etraid@grupoetra.com</u>) Ana Martínez (<u>amrosello.etraid@grupoetra.com</u>)



Organization name	IMEC
Organisation name	
Interest in the call and / or expertise to be brought into a consortium	 Business Model Research expertise cost benefit analysis Expertise on real world testing to increase awareness & trust Development of test validation methodologies and plans Expertise in providing support to decision making authorities Key-stakeholder within the Flemish Taskforce on deployment of autonomous vehicles Preparing and coordinating the development of a Flemish-Dutch CCAM proving region with authorities and private companies Expertise within TEFs (Citcom.ai)
Contact details	IMEC: Sven.vlassenroot@imec.be



Organisatio	on name	- International Road Union
Interest in t / or expertise brought interest consortium	to a	 Large-scale demonstrations are essential for proving the business case of automation in logistics and passenger transport, addressing concerns about cost, infrastructure readiness and workforce adaptation. Experience in H2020 logistics demonstration project AWARD testing automated commercial vehicles in public roads and confined areas; business models, regulations; market analysis; needs and requirements for commercial road transport automation. Support in project implementing large-scale demonstrations (ZEFES, H2Haul, H2AccelerateTrucks). IRU industry knowledge and studies on driver shortage can be used as indicators for best suited business applications for autonomous business cases in logistics and passenger transport. Developing policy monitoring and initiate contact with competent authorities Set up stakeholder group including authorities, operators, policymakers, OEMs, technology providers, etc. Conduct cost-benefit analysis to assess the financial viability and potential return on investment; develop exploitation plan; elaborate roadmaps for successful exploitation and commercialization. Dissemination activities and stakeholders' engagement.
Contact de	tails	Ted Zotos: <u>ted.zotos@iru.org</u>



Organisation name	Toulouse University, FR	
Interest in the call and / or expertise to be brought into a consortium	The autOCampus platform, deployed on the campus of the University of Toulouse, serves as a continuum of experimentation dedicated to autonomous and connected mobility. It combines onboard perception (vehicles equipped with advanced sensors) and remote perception (infrastructure featuring LiDARs, cameras, and computing units) to enhance environmental awareness. With an infrastructure integrating V2X communications, edge computing, and private 5G, it enables real-world testing. This technological continuum drives innovation by exploring solutions for autonomous vehicles, last-mile logistics, and traffic management. Our expertise includes: + Remote & Onboard Perception: Fusion of infrastructure-based (LiDARs, cameras, Al) and vehicle-embedded sensors. + Connectivity & Data Processing: V2X, MEC, and real-time decision-making solutions: Autonomous shuttles, delivery robots, and last-mile logistics. We seek to join a consortium, providing a real-world testbed, supporting remote operations, and contributing to cooperative intelligence and societal readiness.	
Contact details	Rahim.Kacimi@irit.fr Co-head of autOCampus platform , https://www.irit.fr/autocampus/	



Organisation name	SINTEF
Interest in the call and / or expertise to be brought into a consortium	 Stakeholder engagement: Extensive experience in using participatory methods (SSH) for stakeholder involvement in pilot/demonstration projects (including documenting the results from the stakeholder engagement), for instance in the MODI project where SINTEF is responsible for the cocreation arena concept. The SINTEF SSH team also have broad experience in including diverse social groups and understanding the user needs. Demonstration experience: SINTEF is leading two of the five use cases in MODI (UC Norway and UC CCAM corridor) and have extensive experience in developing large-scale demonstration activities and preparing data collection and evaluations from a long and broad range of pilot and demonstration projects. Understanding the socio-technical environment: SINTEF has a broad interdisciplinary team of researchers specifically focused on understanding the cross technological and societal needs and barriers. One example being UC CCAM corridor in MODI where OEM technology meets the requirements and responsibilities of the road authorities and perspectives and needs of the logistic sector to provide infrastructural requirments to secure implementation of L4 vehicles.
Contact details	Hanne.seter@sintef.no

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Organisation name	F6S Network https://innovation.f6s.com/
Interest in the call and / or expertise to be brought into a consortium	 The F6S Network leverages the reach and assets of the F6S platform of +5.7 stakeholders via www.f6s.com Communication & Dissemination We go beyond traditional methods, integrating social media, project websites, webinars, podcasts, events and innovative outreach in high impactful promotion & dissemination strategies. Stakeholder Engagement F6S drives stakeholder engagement through high-impact campaigns, global community building, and interactive co-design workshops.We are experienced in implementing an efficient multi actor approach and building synergies/ clustering activities among projects and EU initiatives. Exploitation, Sustainability & Impact F6S accelerating projects teams and value proposition towards market We provide guidance in exploitation pathways for Key Exploitable Results
Contact details	Robert Carroll: EU Projects Development Manager Email:robert@f6s.com