

2023 - 2024

Annual Review

Connecting the dots



A World of Innovation

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Foreword

01

ERTICO - ITS Europe is all about making mobility smarter, safer and more sustainable for all.

In the third year of my tenure as CEO, I am proud to present ERTICO's Annual Review 2023-2024. A testament to our collective vision of driving innovation and positive change for future mobility, this period has marked notable achievements across all our activities, reflecting a year of continued commitment aligned with our values: Cooperative, Impactful, Open, Passionate and Visionary. On behalf of ERTICO, I am honoured to share the great strides we have made across the entire smart mobility ecosystem in creating a smarter, more efficient and sustainable mobility future with our Partners.

As the intersection of sustainable transport and smart mobility has become a horizontal layer to our work, we remain committed to uniting all sectors. As a beacon of inspiration, ERTICO is uniquely positioned to bring together public and private stakeholders from all domains, creating a **multi-stakeholder platform for open dialogues to drive innovation forward**: this is part of our DNA. From strengthening international and cross-sectoral alliances, to embracing new and dynamic cooperation, we continue to focus on meeting the evolving demands of a changing mobility landscape.

We Continue to Connect the Dots

In the last year, we witnessed a continuing blend of advancements and global challenges with emerging technologies and innovations in artificial intelligence, renewable energy, and space exploration, to name but a few. Digital transformations are enabling virtual spaces to become an integral part of society, while discussions relating to equity, diversity, and inclusion gained momentum across many sectors. We noted this throughout the global transport sector, which is

undergoing a transformative journey shaped by environmental imperatives and shifting societal demands.

To keep pace with this change, **we invited organisations from across the entire spectrum to join the ERTICO Partnership**: from the micromobility community and innovative research institutions to public authorities and the digital arena. We welcomed our Partners to the third edition of 'Focus On' events, addressing micromobility, and hosted our annual Activity Development Days (ADDs) to discuss future priorities and upcoming Calls for Tenders in sync with the EU agenda. We also organised sectoral meetings and introduced cross-sectoral events as valuable facilitators of dialogue, providing further opportunities for Partners to stay up to date with the latest policy developments.

Advancing cross-sectoral network opportunities is a fundamental aspect of our work. Together with colleagues from the regional ITS organisations, ITS America and ITS Asia Pacific, **we continue to connect continents and strengthen our voice globally**. The ITS Congresses are unique events that provide a platform for all players to share expertise and best practices, fostering

new thinking and experiencing innovative technologies. Last year, ITS Asia Pacific hosted the 29th ITS World Congress in Suzhou, China, delivering valuable insight from all the regions. We also announced the next host cities as 'preferred candidates' for the 2026 ITS European Congress in Istanbul, Turkey and the 2027 ITS World Congress in Birmingham, UK.

Before preparations begin for these events, we look forward to hosting the 30th ITS World Congress in Dubai, 16-20 September 2024, bringing this leading event in Intelligent Transport Systems to the EMEA region for the first time. We are also looking forward to organising the 16th ITS European Congress in Seville, 2-4 June 2025 to explore future solutions focusing on 'Clean, Resilient and Smart Mobility'.

A Year of Innovative Achievements

Innovation is at the heart of what we do. As part of our ethos, it drives us to facilitate and develop activities with positive contributions to the future of mobility. This includes **co-creating cleaner, safer and more sustainable solutions**, and enabling the deployment of innovative technologies.



Be inspired and inspire others

Joost Vantomme

CEO of ERTICO - ITS Europe

Our journey in the last year has been one of significant milestones, including the conclusion of flagship projects in transport and logistics: 5G-LOGINNOV, BOOSTLOG, FENIX, STORM and WeTransform. Beyond the great achievement of ISO standard approval, and supporting the Green Deal, we made significant contributions to the development in data-sharing solutions and were awarded the **prestigious Innovation Award 2023 for Data Sharing and Data Transformation**.

Other leading projects across our focus areas also concluded, including 5GMETA, PrepDSpace4Mobility and MODALES. They made significant advances in their fields, delivering 5G technologies applications in connected, cooperative and automated mobility (CCAM), encouraging the adoption of low-emission driving behaviour, and laying the foundation for the common European mobility data space (EMDS). While these activities leave their legacy, we continue to build on their solid foundations and introduce new co-founded projects that are already having a significant impact.

As we continue to tap into the potential of common data spaces, novel shared mobility systems (NSM), innovative security enablers for 6G networks and more inclusive mobility solutions, we have many more initiatives in the pipeline. We look forward to continuing to work closely with our Partners as we stand on the brink of new opportunities and exciting prospects. Strengthening our network across sectors and continents will take forward a culture of collaboration and help us to reach new heights.

Leading the Conversation

Our Thought Leadership agenda has seen several high-impact initiatives. The ITS

Market Radar Report, the first publication in a forthcoming series, provided in-depth market insights and trends from our two sectors, Service Providers and Traffic and Transport Industry. We also introduced the 'Connecting Dots & Talks' podcast series for industry leaders and experts to share insights and foster collaboration. Our Partnership Webinar Series, 'Thought Leadership Journeys', was also initiated, bringing together experts to enrich dialogue and knowledge sharing. We hope to invite many more like-minded experts from all domains to continue the open dialogue.

We continue to strengthen ties in Europe and beyond

Significant EU legislation and policy rollouts also informed our efforts and underlined our own direction of travel. I had the pleasure of commenting on our support for the adoption of the revised ITS Directive, a landmark framework for our community. I will continue to "knock hard on the door" for ITS to be recognised as an enabler for decarbonisation. This includes the joint vision for recognising ITS in the Taxonomy Framework together with other industry organisations. We will continue to be vocal on this topic and promote **a more holistic view of transport policies and mobility concepts**.

Ensuring fruitful liaison with other European organisations and associations has continued as a priority, and something I am keen to reinforce through actively engaging in discussions and streamlining our viewpoints on ITS. We continued our

close collaboration with a broad range of organisations, including the Network of ITS Nationals Associations. This important network celebrates its 20th Anniversary this year, and we had the honour of hosting the annual plenary at ERTICO's offices in 2023.

The international ITS community also remains extremely important. We signed a Memorandum of Understandings (MoU) with ITS Korea, and further strengthened our cooperation with the UK Transport Technology Forum (TTF), and the Institute of Electrical and Electronics Engineers (IEEE) through a Joint Statement of Sustainable Future Mobility Systems. Efficient cooperation with other organisations such as the International Road Federation (IRF) in Geneva, and the European Space Agency (ESA), among other is on track.

With a great deal of exciting work ahead of us, **we look forward to a period of strategic thinking for ERTICO**, aiming at revisiting our key objectives. An organisation like ours is nothing without its people - without our team. We have worked intensively to gain a fresh impetus through diverse HR-related actions, including reshaping our way of working.

Finally, I wish to extend my sincere gratitude to all of you who have played an integral role in the successes achieved, the milestones reached, and the challenges surpassed. **Together we will continue to be inspired and inspire others.**

Founded in 1991 by 15 industry leaders and the European Commission, ERTICO – ITS Europe is a public-private partnership with more than 120 members from eight sectors across the mobility ecosystem.

ERTICO facilitates and promotes innovation, research and deployment of new Intelligent Transport Systems (ITS) and smart and sustainable mobility solutions. ERTICO embodies thought leadership and stakeholder engagement through various activities, including European co-funded projects, innovation

platforms, and ERTICO-led initiatives such as the ERTICO Academy and City Moonshot. ERTICO has also organised more than 40 ITS European and World Congresses, contributing to shaping the future of ITS and providing networking opportunities for the wider community.

Who is ERTICO?

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02

A Safer, Smarter & More Sustainable Mobility Future



SUSTAINABLE MOBILITY

Reduced impact on the environment



EFFICIENT MOBILITY

Zero delays and fully informed users



SAFE MOBILITY

Zero accidents

Our Mission

We develop, promote and deploy intelligent transport systems by providing a multi-stakeholder platform for action

Our Values

Our work is driven by five core values, representing the collective ambition to support our Partners in the implementation of Intelligent Transport Systems (ITS).

COOPERATIVE

IMPACTFUL

PASSIONATE

VISIONARY

OPEN

An Inspirational HR Journey

Our Cultural Transformational Journey alongside our HR Strategic Plan has continued to focus on building a more dynamic and enriching employee culture within ERTICO focusing on our five values: Cooperative, Impactful, Open, Passionate and Visionary.

Following our success in winning the HR Excellence Award in 2023, the team has continued to

contribute their valuable insight into our inspirational HR Journey. We have seen further strides forward with the inauguration of the new office, tailored designed to foster greater collaboration and synergy among our team. The past team building activities have also been integral to our ethos, aiming at enhancing knowledge sharing and amplifying talents.

In the second half of 2024, we are continuing to focus on collaboration and career development. Empowering individual skills and enabling training opportunities is key to support the team, making a positive impact and recognising the unique added value of everyone's contribution.

The ERTICO Partnership

Partnerships are the driving force behind our commitment to revolutionise mobility for everyone. ERTICO unites various stakeholders in the ITS community to enhance the safety, efficiency, and sustainability of mobility.

The ERTICO Partnership, which started with 15 members in 1991, now has more than 120 members spanning eight sectors in transport and mobility: service providers, suppliers, the traffic and transport industry, research, public authorities, user organisations, manufacturers, and the connectivity industry. Together, we are leading the

digital transformation of transportation by advancing cutting-edge technologies, introducing new services, and creating innovative solutions for the more intelligent movement of people and goods. Our holistic approach shapes the future, ensuring the voices of ITS are influential in conversations with institutions and policymakers.



“We are entering a strategic year where ERTICO and our Partners will reshape our vision, mission, objectives and focus areas. Our journey to expand, deepen and broaden Partnerships across nations and sectors, across public and private, continues to have a positive impact on all those involved, growing our knowledge in pursuit of innovation. This year, ERTICO made great advances by creating and promoting new alliances with other areas, such as electromobility and telecoms. We are also tapping into the potential of clean and urban mobility, delivering on 5G and 6G projects with showcases in the logistics area. This shows the possibilities of a data-driven economy with data sharing through various platforms hosted by ERTICO. Together, we navigate challenges, unlock opportunities, and drive innovation forward, exemplifying the power of collective effort in shaping the future of transportation.”

DR. ANGELOS AMDITIS CHAIRMAN OF THE SUPERVISORY BOARD, ERTICO - ITS EUROPE



Joining the Partnership

Being part of the ERTICO Partnership is an important way to connect the dots between different sectors. The Partnership provides synergy across stakeholders, organising the strategic planning and implementation of intelligent transport systems and innovative mobility solutions in Europe and across the world.

Our activities include:

- ADVOCACY AND RAISING AWARENESS
- EU-SUPPORTED PROJECTS
- IMPLEMENTING CO-FUNDED PROJECTS AND INNOVATION PLATFORMS
- TARGETED TRAINING, MATCHMAKING AND TECHNOLOGY TO DRIVE STRATEGY DEVELOPMENT, INCLUDING THE ERTICO ACADEMY AND ERTICO CITY MOONSHOT.
- SHARING POLICY AND MARKET INSIGHTS THROUGH EVENTS AND NETWORKING OPPORTUNITIES INCLUDING ITS EUROPEAN AND WORLD CONGRESSES AND WEBINAR SERIES
- OUTREACH TO PARTNERS AND STAKEHOLDERS DURING EVENTS AND WORKSHOPS, INCLUDING THE FOCUS-ON EVENTS, THINK TANK, DEEP-DIVE SESSIONS, AND PODCASTS

The ERTICO Partnership bridges the gaps between stakeholders in the ITS community to support knowledge exchange and share the latest trends and approaches. It anticipates new technologies and the deployment of innovation. Keeping the conversation up to date, the Partnership brings together diverse interests and know-how. It is a forum for knowledge sharing, on the opportunities and challenges ahead, shaping the development of mobility beyond individual interests into a shared vision.

Our shared mission is to:

- CONNECT LOCAL AND REGIONAL TRANSPORT ORGANISATIONS WITH NATIONAL AUTHORITIES
- PROMOTE ACTIVE AND SUSTAINABLE COLLABORATIVE RELATIONS WITH EU INSTITUTIONS AND POLICYMAKERS
- PERFORM TESTING TO SUPPORT THE DEPLOYMENT OF INTEROPERABLE ITS AND SMART MOBILITY SOLUTIONS
- CONTRIBUTE TO STANDARDS FOR APPLICATIONS AND SERVICES, AND STEER STANDARDS TOWARDS GLOBAL HARMONISATION INCLUDING THE INTERNATIONAL ORGANIZATION FOR STANDARDISATION (ISO), EUROPEAN TELECOMMUNICATIONS STANDARDS INSTITUTE (ETSI) AND EUROPEAN COMMITTEE FOR STANDARDISATION (CEN)

ERTICO Governance Bodies

Connecting with Our Partners

Public Authorities

Connectivity industry

Research

Service Providers

Suppliers

Traffic and Transport Industry

Users

Vehicle Manufacturers

National Regional City

National

- Federal Ministry Republic of Austria
- Czech Republic Ministry of Transport
- TRAFIGOM
- Ministerstvo životního prostředí a energetiky
- Ministry of Innovation and Technology
- Ministerstvo dopravy a stavebnictví
- IMT
- Ministry of Construction, Transport and Infrastructure
- WDR

Regional

- Bizkaia
- Flanders State of the Art
- OXFORDSHIRE COUNTY COUNCIL
- Province Noord-Brabant
- Transport for West Midlands
- saena
- Strasbourg.eu
- THE CITY OF TAMPERE
- CITY OF THESSALONIKI
- toulouse métropole
- MUNICIPALITY TRIKALA
- CONCELLO DE VIGO

City

- Berlin
- Glasgow
- Hamburg
- MUNICIPALITY OF LAMIA
- maastricht
- RTA
- Strasbourg.eu
- THE CITY OF TAMPERE
- CITY OF THESSALONIKI
- toulouse métropole
- MUNICIPALITY TRIKALA
- CONCELLO DE VIGO

Connectivity industry

- HUAWEI
- Microsoft
- Qualcomm
- T...

Research

- AALBORS UNIVERSITY DENMARK
- Beia
- list
- Cefriel
- CERTH
- CHALMERS
- CATAPULT
- CTAG
- DTU
- Technical University of Denmark
- ENISEY
- ICCOOR
- SystemX
- UNIVERSITY OF LEEDS
- Koioç
- LIST
- LINKS
- OKAN UNIVERSITESI
- Multitel
- INNOVATION CENTRE
- RE:Lab
- Politecnico di Bari
- UNIVERSITÀ DELLA CALABRIA
- TNO
- vicomtech
- VEDECOM
- VTT

Service Providers

- AKKODIS
- BEMOBILE
- DEKRA
- here
- NeoGLS
- PIONIRA NV
- PLUSERVICE.NET
- PTV GROUP
- SE
- INTERNATIONAL
- TomTom

Suppliers

- AISIN
- BRIDGESTONE
- Continental
- DENSO
- MITSUBISHI ELECTRIC
- NNG
- Panasonic
- ubiwhere
- rhoe
- swarco
- TRACTEBEL
- YUNEX TRAFFIC

Traffic and Transport Industry

- Brisa
- indra
- its
- INRIX
- kapsch
- PASTS
- monotch
- swarco
- YUNEX TRAFFIC

Users

- Automobile Club d'Italia
- arriva
- AVERE
- Cycling Industries Europe
- RACC
- Mobility Club

Vehicle Manufacturers

- eucar
- FORD
- OTOSAN
- gm
- HONDA
- Mercedes-Benz
- ohmio
- GROUPE RENAULT
- TOFAŞ
- TOYOTA

Networking with Peers

ERTICO Partners play an important role at our European and global events: presenting and discussing new approaches, sharing ideas, networking and building visibility. These events are excellent opportunities to engage with peers, establish connections with potential clients, and cultivate relationships with prospective business collaborators. ERTICO Partners also have exclusive opportunities to attend our annual ERTICO Think Tank and FOCUS ON events. The ITS World and European Congresses serve as distinctive forums for displaying intelligent, sustainable and more efficient mobility solutions, with ERTICO Partners benefiting from speaking opportunities and other advantages.

Connecting Sectors

ERTICO brings together sectors from across the ITS community to help make mobility safer, more sustainable and efficient. To facilitate engagement, we organise sector and cross-sector meetings. Sector meetings facilitate collaboration, networking and innovation among sectors, while and cross-sector meetings target two specific sectors to foster dialogue across the ecosystem, discussing opportunities for collaboration within ERTICO and beyond. Both types of meeting are attended by representatives from the European Commission, creating an opportunity for ERTICO Partners to maintain contacts with EU institutions and new policy developments.



Our Partnership Events

The primary aim of our Focus On events is to enhance understanding of current and future developments in the mobility landscape and its players. These events encompass panel discussions on specific topics and feature an exhibition of platforms and initiatives facilitated by ERTICO. Crafted to assist Partners in contributing to the realisation of smart and sustainable mobility objectives, ERTICO's Focus On events serve as a platform for showcasing Partners' activities, knowledge, and expertise, thereby increasing visibility. Attended by the entire ERTICO Partnership, each edition invites different Partners to participate in panel discussions. They also foster networking, bringing stakeholders together to exchange ideas and expertise, with representatives from the European Commission, delivering updates and outlining future EU priorities. Last year's edition, co-organised with the Transport Technology Forum (TTF), focused on micromobility, emphasising the importance of policies, infrastructure, and technology in shaping the future of urban mobility. Speakers highlighted the need for evidence-based policy discussions and regulatory frameworks to ensure the sustainability and viability of micromobility solutions. The upcoming Focus On event will take place in November 2024, following the Strategic direction and action points derived from the Strategic Think Tank on 11th June 2024.

Business Development Opportunities

The ERTICO Newsroom provides frequent updates to the broader ITS community and our external stakeholders. The ERTICO newsletter and monthly events calendar reach a varied audience of more than 5,000 subscribers, giving ERTICO Partners a unique opportunity for enhancing their profile and marketing direct to this audience. This includes contributing original content to our newsletter and online channels, showcasing projects, sharing technology updates, conducting interviews, and announcing events.

The ERTICO Partnership & Governance team also organises Round Tables and Deep Dives on topical themes under the auspices of the ERTICO Strategy Committee. These include Mobility Data Platforms, AI in Traffic Management, remote transport systems and automated robots, EU Mobility Data Space Development, Air Mobility & Innovative Aeria Services and more. Partners can exchange views and discuss issues with stakeholders including the European Commission, industry and public partners, from within and outside the ERTICO Partnership.



"The automotive industry and entire transport sector are in the midst of a massive transformation. Sustainability and digitalisation are the main drivers. Innovation requires a cross-sector approach, and within ERTICO members we find many stakeholders sharing our vision for sustainable, safe, clean, and efficient road transport solutions, which provide freedom of mobility to all, with benefits to users and society."

STEFAN DEIX

DIRECTOR, EUROPEAN COUNCIL FOR AUTOMOTIVE R&D - EUCAR

Partnership Options

ERTICO is open to any public or private organisation that is active or interested in implementing intelligent transport systems and smart mobility solutions in Europe and beyond.

**We offer two levels:
ERTICO Partner and ERTICO Premium Partner**

ERTICO Partners have access to all the networking opportunities that we offer, with the potential to raise your profile with an engaged audience and foster greater international cooperation. Our partners become part of a shared vision and endeavour with other ITS pioneers worldwide. ERTICO Premium Partners have all the opportunities described above plus the ability to access the proposal development process and tap into the IP and financial benefits that can result from innovative ITS projects. Premium Partners participate and engage at the highest level of ITS World and European Congresses.



“The ERTICO Partnership is a major venture with the potential to dramatically extend our activities directed at the automotive and mobility sectors in the EU. With the focus on telecommunications and its enabling technologies, and on leveraging collaborative work with research centres and companies all over the world, we look forward to contributing to fulfil the institutional and societal challenges of the ERTICO Partnership.”

JOSÉ CARLOS PEDRO

PRESIDENT, INSTITUTO DE
TELECOMUNICAÇÕES, PORTUGAL



Our mission

Premium Partners



Access to ERTICO proposal building (maximum three per year)	✓	
Invitation to ERTICO Activity Development Days	✓	
High-level speaking opportunities at ERTICO events	✓	
Access to market insights	✓	
ITS Congress: one free ticket, VIP access, discount on exhibition spaces	✓	✓
Networking possibilities with other ITS stakeholders	✓	✓
50% discount for the yearly membership for ERTICO Innovation Platforms *	✓	✓
Staying up to date on evolving EU policies, own sector evolutions and evolutions in other ERTICO sectors	✓	✓
Knowledge sharing through the ERTICO Academy and discounted training	✓	✓
Access to activities of the ERTICO Strategy Committee and its Working Groups	✓	✓
Eligibility to the membership of the ERTICO Supervisory Board, subject to voting (seats allotted per sector) **	✓	✓
Marketing opportunities through ERTICO communication channels	✓	✓
Outreach to potential business Partners and public authorities	✓	✓
Stakeholder engagement across eight sectors	✓	✓
International cooperation with the ITS organisations worldwide	✓	✓

* The discount applies to a maximum of three platforms per year and its total amount cannot exceed the yearly ERTICO membership fee

** Only for shareholders

Driving innovation and deployment is the heart of what we do at ERTICO

We coordinate and support close to 30 European projects with our Partners and external stakeholders, funded by the European Commission and national authorities, to make mobility smarter, safer and cleaner. Our work not only paves the way for a smarter and more sustainable mobility landscape but also aligns seamlessly with EU objectives. This includes policy frameworks such as the European Green Deal, Vision Zero, and the Sustainable and Smart Mobility Strategy. Innovation Platforms,

Mobility Data Spaces and other multi-stakeholder activities are funded solely by industry and/or public authorities, comprised of members and non-members of the ERTICO Partnership. Our commitment to innovation and deployment also extends to horizontal initiatives, including the City Moonshot, ERTICO Academy, and other activities across the world that synchronise Europe with other ITS organisations in the US, Canada, and Asia-Pacific.

What we do

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> Chapter

03

ERTICO Innovation Platforms and Mobility Data Spaces.

Through our **CCAM** (Connected, cooperative and automated mobility) initiatives, we are actively contributing to the evolution of transportation, envisioning a future where vehicles communicate intelligently, cooperate seamlessly, and navigate autonomously. This commitment underscores our dedication to developing cutting-edge technologies and a transformative approach to address current challenges. We are laying the groundwork for a future where transportation is a safer, more integrated, and sustainable system that enhances overall quality of life.

An important component of our mission in **Clean & Eco-Mobility** focuses on reducing emissions and mitigating pollutants originating from various transportation sources, including brakes, tyre, and exhaust. Our activities contribute to improving air quality for a healthier society and promote the uptake of zero-emission vehicles, renewable and low-carbon fuels, and related infrastructures.

In **Urban Mobility**, our strategic priorities emphasise multimodal, integrated, and inclusive transportation options for all. This vision relies on a robust infrastructure supported by operational CCAM services, playing a central role in the decarbonisation of transportation and contributing to making connected and automated multimodal mobility a reality.

Transport & Logistics concentrate on supporting the greening of freight transport and logistics, including interoperability and connectivity to optimise the movement and shipment of goods. By leveraging a broad range of expertise and resources, we aim to enhance supply chain management, contributing to overall efficiency gains in the logistics sector.

Our Active Projects 2023-2024

23

active projects in 2023/24

05

new projects starting mid-2024

The total multiannual value of these projects exceeds

442€

million



Connected, Cooperative & Automated Mobility

ERTICO is working to support and accelerate the deployment of safe, infrastructure supported and inclusive CCAM services that complement existing transport solutions and address societal needs.

Our activities reflect the entire spectrum of ERTICO's CCAM roadmap vision, bringing together multiple stakeholders including all sectors from industry, research and the public to share experiences and build consensus to solve common challenges. This includes addressing the **societal aspects of CCAM**, exploring and testing the key **enabling technologies**, supporting demonstrations to raise awareness and evaluate wider impacts of services, providing co-ordination across stakeholders, creating the **physical and digital infrastructure** required, and developing and aligning the **standards and harmonised approaches** necessary for deployment to succeed.

We strongly support the **CCAM Partnership**, which organises the R&I actions required to move closer towards deployment readiness. This includes significant contributions to developing and updating the **Strategic Research and Innovation Agenda** (SRIA), a living document that informs European R&I and demonstration activity, alongside developments

associated with the Work Programmes of the Horizon Europe funding programme. ERTICO leads the partnership's cluster on Coordination and co-leads its cluster on Integrating CCAM in the Transport System.

Recent updates to the SRIA reflect the latest technological advances, including results from the first EU-funded CCAM project, together with emerging challenges and evolving societal needs. They also reflect fast-moving **regulatory developments connected** to the General Safety Regulation (GSR) and Automated Driving Systems (ADS) Regulation to fully support the EU Green Deal, but also **sustainability and circularity** requirements, in co-operation with other initiatives around electrification and zero-emission vehicles. ERTICO has contributed to updates related to the cooperation between Member States and with other regions of the world. This is essential for future development of harmonised solutions working across borders, sharing best

practices and potential solutions to common challenges.

The ERTICO-coordinated FAME project creates the basis for the coordination and alignment of R&I and demonstration activities on CCAM in Europe. The project maintains the EU-wide Knowledge Base for European R&I and demonstrations while developing a European Framework for testing on public roads including a Common Evaluation Methodology. **This activity complements** our work within the CCAM Partnership by encouraging and enabling closer collaboration, a prerequisite for successful testing and evaluation and therefore scaling-up of CCAM services.

Societal aspects including public perceptions and user acceptance will ultimately pave the way for future CCAM success. This makes **co-creating CCAM solutions with citizens** an imperative, which requires a full understanding of what people actually want and need. ERTICO's coordination role and knowledge sharing means we are ideally placed to support

this: reaching out to non-experts, for example, and learning from CCAM experiences of cities outside Europe.

Issues around safety, reliability, security, ethics, privacy, and the sharing of personal data will all affect the willingness to trust and use CCAM services. A continued emphasis on testing, safety and standards, running large-scale demonstrations, including non-experts, and providing clear and unambiguous information are all required. The latter was a continuous focus of the SINFONICA project, which looks at inclusiveness and equity in the adoption of CCAM.

We continue to play a central role in **large-scale CCAM demonstrations**, in cooperation with all stakeholders, and cities in particular. This includes the ERTICO-coordinated **metaCCAZE** project. Launched in 2024, metaCCAZE will be using adapted MetaInnovations and MetaServices, use cases, and collaborative business and governance models to accelerate deployment of smart systems and services that combine electric automated and connected mobility, as well as their related infrastructure.

To ensure the availability of necessary **infrastructure and seamless connectivity**, we are also involved in shaping

requirements and defining the building blocks, responsibilities and challenges for CCAM infrastructure. The **PoDIUM** project supports these efforts, aiming to advance the Physical and Digital Infrastructure (PDI) necessary for CCAM, including a multi-connectivity approach, and an interoperable and hybrid data management environment. Connectivity is a key requirement to enable truly cooperative services.

Infrastructure support is critical, with remote management operations a key aspect of the early deployments of CCAM services. Such operations need to characterize all possible interactions between a human agent - in particular a remote operator outside the vehicle - and the automated driving system responsible for performing dynamic driving tasks.

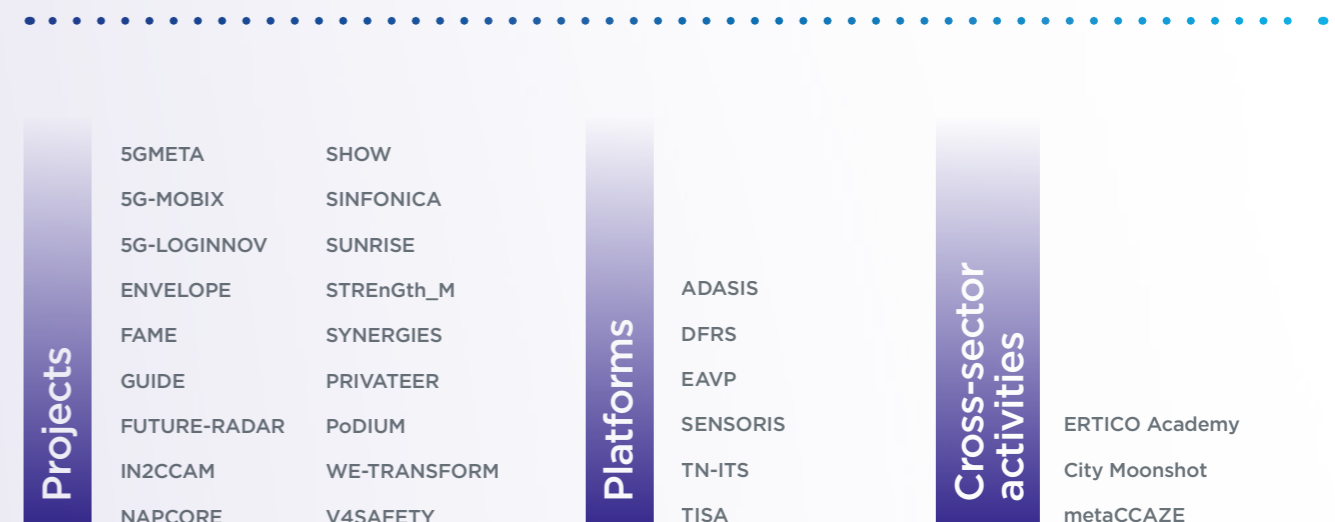
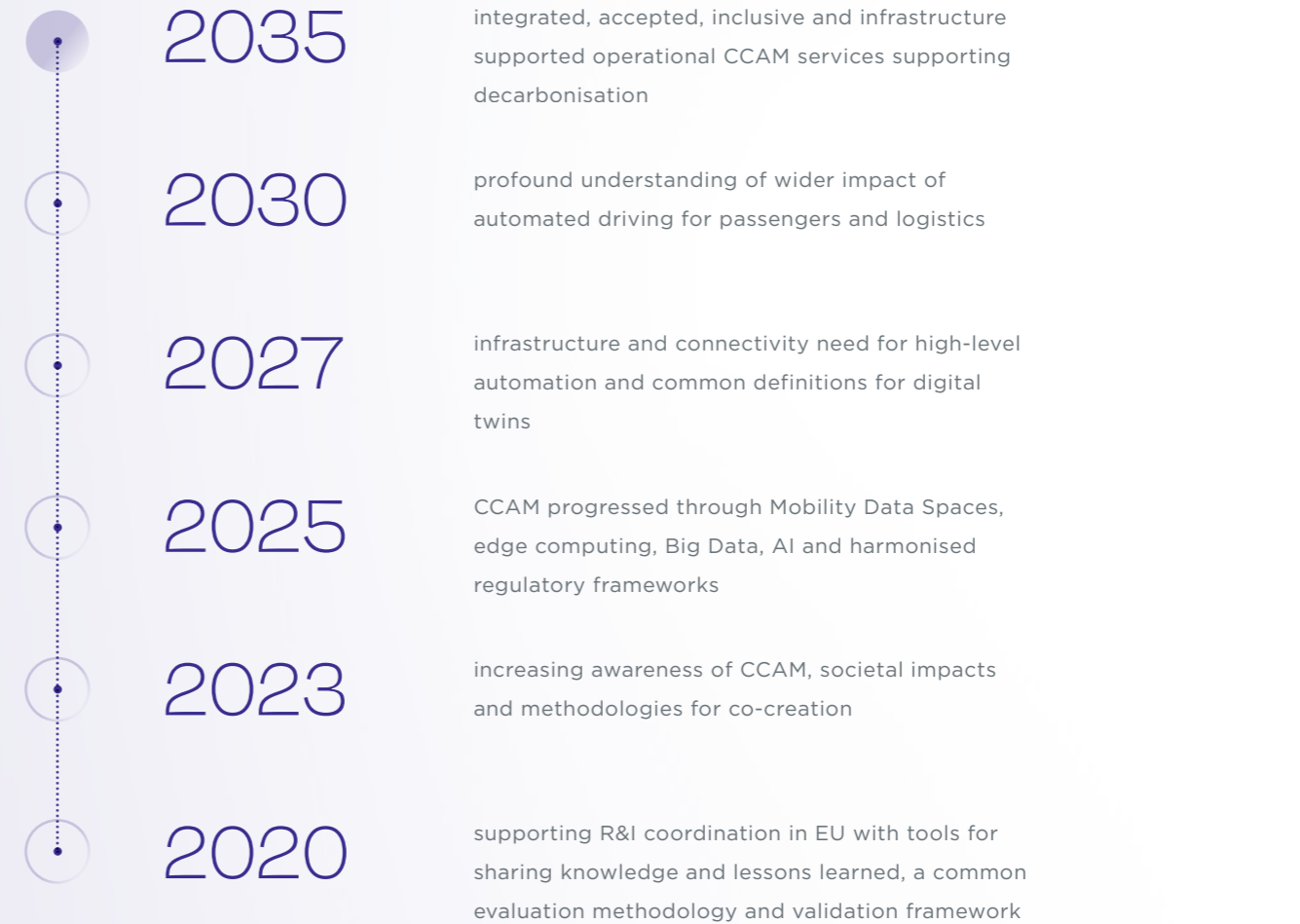
A CCAM-enabled future will require next-generation seamless **traffic management**. We are a partner in the **IN2CCAM** project, aiming to make road safer to make roads safer, more sustainable and more inclusive by enhancing integration and interoperability in CCAM. Our **TM2.0** innovation platform is focused on new solutions to advance interactive traffic management.

ERTICO also works to **harmonise standards and regulations** including testing and safety assessment methodologies. We provide dissemination and communication support for the **SUNRISE** project, which is developing a harmonised and scalable CCAM Safety Assurance Framework. Safety assurance is of course essential for the successful adoption and deployment of CCAM in society.

We are also involved in the **European Road Transport Research Advisory Council** (ERTRAC). Recent updates to its CCAM Roadmap include the framework conditions for large-scale demonstrations, in part driven by the need for services to remain in place after demonstrations end. For example, with different enabling technologies at different levels of maturity, they must be evaluated in terms of societal impacts and potential for market adoption.

ERTICO, working with its Partners, projects, platforms and cross-sector activities, helps the CCAM world to go further, focusing on a more sustainable and cleaner mobility future.

Roadmap





Leveraging car-captured data to stimulate, facilitate and feed innovative products and services

Start 1 September 2020
End 29 February 2024
Coordinator Vicomtech
Partners 12

5GMETA aims to create an open platform to deliver car and road data flows in real-time, stimulating the development of innovative CCAM products and services by expanding 5G network functions, whilst ensuring data privacy, security, interoperability and ownership, and generating new business opportunities. 5GMETA empowers the automotive ecosystem by providing more interoperable car-captured data. By accessing a greater and more diverse volume of data, automotive players can develop innovative business models and new revenue streams.

The 5GMETA consortium made its last steps towards completing the project and delivered the 5GMETA Platform, open to the public via GitHub. The launch of the project's Second Hackathon leveraged the identification of new CCAM services and respective business models based on the 5GMETA Platform data flow and monetisation services to third parties. Through a series of joint webinars, 5GMETA demonstrated the relevance of 5G technology in relation to the automotive industry. In February 2024, the project held its final event, when various stakeholders could discuss on how the 5G technologies and applications are influencing and boosting CCAM and the mobility sector.

ERTICO Partners: AKKODIS, DEKRA, Vicomtech, ICOOR, LINKS Foundation, NeoGLS, VEDECOM



Advancing map-enhanced driver assistance systems leading to Automated Driving (Association Internationale Sans But Lucratif)

Start 2002
Coordinator ERTICO - ITS Europe
Partners 55

The ADASIS association is developing the worldwide de facto industry standard interface to enable Advanced Driver Assistance Systems (ADAS) to access map and geo-referenced data ahead of the vehicle position. This concept is known as ADAS Horizon, and adapts as the vehicle advances on its route.

ADASIS specifications have enabled the market introduction of new vehicle systems such as Predictive Powertrain Control, reducing fuel consumption and therefore CO2 emission by up to 8%. The ADAS Horizon is the standardised interface enabling ADAS and automated driving applications to access in-vehicle map database. The implementation of ADASISv3 as a standard will enable automated driving by supporting high-definition maps of any type supporting long-range horizons without restrictions, and attaching georeferenced objects (sensor, dynamic data) to the ADAS Horizon.

ERTICO Partners: AWTCE (AISIN), Continental, CTAG, HERE Technologies, Honda, Huawei, Mercedes-Benz, Mitsubishi Electric, NING, Panasonic, Qualcomm, Renault, TomTom, Toyota



Public-private cooperation for a Safety-Related Traffic Information (SRTI) Ecosystem

Start 2019
Coordinator ERTICO, with the support of WSP as chair of the Technical Group
Partners 22

Data for Road Safety (DFRS) is an ERTICO platform and a pioneering initiative for enhancing road safety based on public-private collaboration. The platform has created a Safety-Related Traffic Information (SRTI) ecosystem, which enables data sharing amongst its members for the creation of safety warnings under the principle of reciprocity. Public authorities, including road authorities and operators, vehicle manufacturers and suppliers, and service providers work together for the large-scale use of safety relevant data on a mutual basis. This European data space frames into the delegated Regulation 886/2013 of the European Commission on SRTI.

DFRS continues to make significant strides in fulfilling its mission with milestones such as the creation of DFRS Live Map, an interactive tool displaying the ecosystem's data flow. Moreover, it has finalised the release of eight self-declaration documents, offering stakeholders clear guidelines for sharing data on various safety-related traffic events. DFRS has expanded its network by welcoming additional members and forging new partnerships, including the Cooperation Agreement with NAPCORE. These activities underscore DFRS's commitment to fostering collaboration, transparency, and data-driven solutions for road safety.

ERTICO Partners: The Netherlands Ministry of Infrastructure and Water Management, DGT Spain, The Finnish Transport and Communications Agency Traficom, Germany's Federal Ministry of Transport and Digital Infrastructure, Flanders MOW (Belgium), HERE Technologies, TomTom, Inrix, Mercedes-Benz, Trafikverket, Luxembourg National Roads Administration



European Automated Valet Parking

Start 2022
Coordinator ERTICO - ITS Europe
Partners 14

A collaborative stakeholder ecosystem to bring parking to the next levelThe EAVP platform gathers stakeholders to coordinate the seamless dissemination and deployment of European Automated Valet Parking (AVP). It promotes collaboration at a hands-on-working level, facilitating partnerships. EAVP also supports the implementation of priority actions for AVP deployment in Europe, fostering relevant standards and aligning with deployment roadmaps and legislation. By creating and guiding an active European AVP ecosystem, EAVP aims to lead the consistent and stepwise deployment of AVP functionality for successful market entry in 2025.

The EAVP platform's current priority is the Lighthouse project, focusing on deploying AVP in real-life scenarios. Unlike demonstrators or prototypes, Lighthouse entails large-scale AVP deployment in live settings, where targeted user groups use AVP cars daily alongside designated garages. Crucially, the project aims for a clear path to commercialisation, ensuring a mutually beneficial outcome for all stakeholders involved. The Lighthouse project is supported by the platform's user journey deliverable on the merger of both the APDS parking and the ISO AVP standards. A consistent communications plan is set up for further dissemination of AVP awareness in Europe.

ERTICO Partners: Toyota, HONDA, DEKRA, CTAG





Evaluation and validation of connected mobility in real open systems beyond 5GS

Start 1 Jan 2024
End 31 Dec 2026
Coordinator ICCS
Partners 23

ENVELOPE is a new Horizon Europe project that aims to advance and open up the reference 5G adv. architecture and transform it into a vertical-oriented one. It builds on the success of previous (CAM-related and Smart Networks and Services Joint Undertaking (SNS JU) projects and will deliver three large scale Beyond 5G (B5G) trial sites in Italy, Netherlands and Greece.

ENVELOPE aims to develop a 5G architecture to accommodate any type of vertical service. This will be achieved by supporting them with advanced exposure capabilities and functionalities that are tailored to the service needs.

ERTICO Partners: ICCS, Fondazione Link, TNO, Vicomtech



Framework for coordination of Automated Mobility in Europe

Start 1 July 2022
End 30 Jun 2025
Coordinator ERTICO - ITS Europe
Partners 23

FAME supports the commitment of the European Commission and CCAM Partnership to provide a long-term coordination framework for R&I and the large-scale testing and evaluation of connected automated driving in Europe. This involves establishing a stakeholder-validated framework for testing on public roads, including test data space (TDS), common evaluation methodology (CEM), and a way to exchange knowledge on CCAM activities to improve cooperation, consensus building and data sharing. FAME will consolidate the transferability, replicability and upscaling of knowledge for future research, development and testing, so accelerating the development and deployment of CCAM-enabled solutions.

The Standards, Methodology, Data Sharing and Taxonomy sections of the EU-wide Knowledge Base have been updated with new content and functionalities, while the list of R&I projects, the map of test locations and list of roadmaps have all been updated. A first draft of the CEM is ready for proof-testing in newly starting CCAM projects. The EUCAD Symposium was organised on 18-19 April 2024 in Dublin, Ireland. In 2025, the 5th edition of EUCAD will be held in Ispra, Italy, on 13-15 May.

ERTICO Partners: AustriaTech, BAST (BDMV), ICCS, Czech Republic Ministry of Transport, NNG, PTV Group, Chalmers, TNO, VEDECOM, Vicomtech, VTT, University of Leeds (UK)



Supporting the Strategic Deployment Agendas for the EU Corridors

Start 1 Jan 2023
End 30 June 2025
Coordinator EURESCOM-European Institute For Research And Strategic Studies In Telecommunications GmbH
Partners 4

GUIDE coordinates development of the 5G Strategic Deployment Agenda (SDA) for CAM and facilitates CEF2 future project pipelines based on the evolution of the SDA. The project will coordinate SDA development, facilitate project pipelines, and elaborate best practices of studies and deployment projects to cover common challenges e.g. local breakout. It will also assist in performance evaluation across projects, sharing solutions, and supporting progress monitoring.

GUIDE will help to ensure coherence in the operation and collaborative working to develop the 5G SDA. The project will focus on providing the essential organisation and operational infrastructure to allow the active CEF project community to communicate and collaborate smoothly and efficiently.



Re-shaping mobility for all: enhancing Integration and Interoperability of CCAM

Start 1 November 2022
End 31 October 2025
Coordinator POLIBA
Partners 21

IN2CCAM aims to make roads more sustainable, inclusive and safe by implementing and demonstrating innovative services for connected vehicles, infrastructures and users. The project focuses on advancing CCAM technologies and services, and enhancing physical, digital, and operational infrastructures. This aims to support CCAM vehicle integration, foster interconnectivity, and achieve a seamless transport system and traffic management. The services and technologies are tested in six Living Labs in Tampere (Finland), Trikala (Greece), Turin (Italy), Vigo (Spain), Bari (Italy), and Quadrilatero (Portugal). In its second year, IN2CCAM has laid a robust foundation for its services and technology development. The lead Living Labs began trials in April 2024. Seeking to assess the social acceptance and impact of IN2CCAM innovations, each lead Living Lab will organise and execute real-life demonstrations with automated vehicles, beginning with Tampere in June, followed by Turin, Trikala and Vigo. The two follower Living Labs of Bari and Quadrilatero will engage in comprehensive simulations and data assessments. These initiatives mark significant progress toward advancing CCAM technologies, fostering a future of seamless and efficient transportation systems across Europe.

ERTICO Partners: Akkodis, CEA, NEOGLS, ICCS, LINKS Foundation, LIST, OKAN, POLIBA, Ubiwhere, Vicomtech, VIGO, VTT





The world's largest cooperation of mobility data platforms

Start 1 April 2021
End 31 December 2022
Coordinator Bundesanstalt für Straßenwesen (BAST)
Partners 33

NAPCORE is the coordination mechanism to improve the interoperability of the National Access Points (NAPs) and establish harmonised and federated NAP infrastructure in any EU and associated Member State. NAPCORE members work collaboratively to create a long-term governance structure at the EU level, aligning regulatory and authoritative mobility standards such as TN-ITS and DATEX II. ERTICO plays a multifaceted role within NAPCORE as a member of the Steering Committee and the Advisory Board and provides the parking ambassador function linking the NAPCORE community with the Parking ecosystem. The TN-ITS platform leads SWG 4.2. Other ERTICO-related innovation platforms MaaS Alliance, TISA and DFRS also contribute to the NAPCORE Advisory Board.

ERTICO's contribution is essential in the EU-wide alignment of data content, data chain aspects and related data accessibility processes, defining and deploying the final role of EU NAPs within the EU mobility data space. In the past year, NAPCORE achieved a significant milestone with the merging of the DATEX II and TN-ITS standards under the Declaration of Lisbon. The annual NAPCORE Mobility Data Days continue to engage European stakeholders to further the project's mission. Another recent achievement is the animated 'NAPCORE cartoon on NAP'

ERTICO Partners: *Vlaamse Overheid, Department of Mobility & Public Works (Netherlands), Czech Ministry of Transport, French Ministry of Transport, Hungarian Ministry of Innovation and Technology, Italian Ministry of Infrastructures and Transport, Ministry of Infrastructure and Water Management Rijkswaterstaat (Netherlands), Slovenian Ministry of Infrastructure, DGT Spain, Swedish Transport Administration (Trafikverket)*



Accelerating the implementation of CCAM technology

Start 1 October 2022
End 30 September 2025
Coordinator ICCS
Partners 24

PoDIUM will identify and assess connectivity and cooperation enablers and needs to advance key technologies in physical and digital infrastructure (PDI) and so achieve higher levels of automation in CCAM. The project will demonstrate demanding CCAM use cases in three Living Labs through a multi-connectivity approach, and an interoperable and hybrid data management environment. PoDIUM will result in a high-level reference architecture to apply to different road environments and infrastructure equipment.

PoDIUM has finalised the specification of its high-level platform architecture. This important technical milestone outlines the main enablers that will be developed and implemented in the project's Living Labs in Germany, Spain and Italy to ensure the interoperability of technologies, networks, and software components used in the demonstrations. The evaluation methodology for the use case demonstrations is also being finalised, together with the final technical requirements regarding infrastructure, vehicles and traffic management strategies in preparation for the upcoming pre-trials in the Living Labs.

ERTICO Partners: *ICCS, SWARCO, Vicomtech, LINKS Foundation,*



A global standardised interface to exchange data between in-vehicle sensors and the cloud (Association Sans But Lucratif)

Start 2016
Coordinator ERTICO - ITS Europe
Partners 13 (15 members in the process of joining the ASBL)

The SENSORIS standard enables access, delivery and processing of vehicle sensor data to be used by location-based services and allowing an easy exchange of vehicle sensor data. It brings together key players from the global vehicle industry, map and data providers, sensors manufacturers and telecom operators.

SENSORIS defines a global standardised data interface between vehicle and cloud that will result in new services and increased business opportunities, using in-vehicle sensor data as probe data. After becoming an official non-profit association under Belgian law in November 2023, SENSORIS will liaise with CEN and ISO in order to have SENSORIS specification adopted as a CEN and ISO standard, and plan to develop SENSORIS v2.0.

ERTICO Partners: *AISIN, CTAG, Mitsubishi Electric, Huawei, HERE Technologies, NING, Toyota*



Social INovation to FOster Inclusive cooperative, Connected and Automated Mobility

Start 1 September 2022
End 31 August 2025
Coordinator University of Modena and Reggio Emilia (UNIMORE)
Partners 14

SINFONICA focuses on the accessibility and inclusivity of CCAM solutions, developing innovative strategies, methodologies, and tools for socially innovative, citizen-oriented long-term planning in CCAM. It has a special focus on vulnerable road users. The project conducts a range of activities in four Groups of Interest in Europe to develop inclusivity recommendations and guidelines that take user needs and requirements into account and enhance the seamless and sustainable deployment of CCAM in an inclusive and equitable way for all citizens.

After identifying the needs of diverse user groups and defining the participatory approach for data collection, SINFONICA successfully conducted three rounds of individual and group interviews, as well as workshops in its Groups of Interest in Germany, Greece, UK and Netherlands. The valuable input collected from citizens will be used to develop recommendations and guidelines through an innovative new tool, the SINFONICA Knowledge Map Explorer.

ERTICO Partners: *City of Hamburg, IRT SystemX, ICOOR, ICCS, Provincie Noord Brabant, Arriva, Transport for West Midlands, e-Trikala, RE:Lab*





Developing and providing a harmonised and scalable CCAM Safety Assurance Framework

Start 1 September 2022
End 31 August 2025
Coordinator IDIADA
Partners 21 + 2 Associate

SUNRISE develops and demonstrates a validated, commonly accepted and extensible Safety Assurance Framework for testing and safety validation of a varied scope of CCAM systems. SUNRISE works closely with all relevant CCAM stakeholders including policymakers, regulators, consumer testing and user associations. Its long-term goal is accelerating the safe deployment of innovative CCAM technologies and systems for passengers and goods by having a positive and demonstrable impact on safety.

The project has been defining and implementing the building blocks of the SUNRISE Safety Assurance Framework (SAF): harmonised and scalable safety assessment methodologies, procedures and metrics tailored for use cases, as well as a federated European Scenario Database framework and related data interfaces. With the publication of the first technical deliverables, the SUNRISE consortium illustrated publicly the first structure of its SAF. A series of workshops and webinars organised by ERTICO, together with constant dialogue with international experts and institutions through an online Expert Platform, contributed to raising awareness and allowed project members to collect and elaborate feedback on the building blocks developed, an essential step to ensure the framework takes into account all existing approaches and methodologies and will be widely adopted in the future.

ERTICO Partners: Continental, Chalmers, ICCS, Renault, Toyota Motor, TNO, VEDECOM, Vicomtech



Transport Network ITS Spatial Data Deployment

Start 2013
Coordinator ERTICO - ITS Europe
Partners 13

TN-ITS is an ERTICO multi-stakeholder innovation platform that governs a data chain mechanism for trusted authoritative spatial road data changes between road authorities and map makers and service providers. The platform enhances road safety, transport efficiency, automation and applications such as MaaS, Smart Parking or Cycling. TN-ITS maintains and develops a CEN Technical Specification for the exchange of static road attributes. This standard is now a basis for static data exchange within the revised Delegated Regulation RTTI DR 2022/670. Additionally, TN-ITS encompasses the National Access Point Coordination Organisation for Europe (NAPCORE).

In 2023, TN-ITS signed the Declaration of Lisbon with DATEX II, which establishes a unified language for road data distribution throughout Europe. This cooperation, conducted under the umbrella of NAPCORE, simplifies data formats for data providers and enables automation for data users, facilitating the exchange of road data. 2023 also marked a decade of the platform's existence, a moment of celebration captured in the 'TN-ITS 10th anniversary booklet'. Now, TN-ITS is furthering the materialisation of the merger and broadening its community to advance the market uptake of its services.

ERTICO Partners: Vlaamse Overheid, Swedish Transport Administration (Trafikverket), Department of Transport, Tourism and Sport (Ireland), HERE Technologies, TomTom, Department for Transport (UK), Huawei, Norwegian Public Roads Administration



Workforce Europe - Transformation Agenda for Transport Automation

Start December 2020
End March 2024
Coordinator Politecnico di Torino
Partners 34

The EU-funded H2020 project WE-TRANSFORM developed an action-oriented policy agenda to address these challenges and mitigate the impacts of automation on workers from all transport modes and sectors. The project brought together stakeholders from all transport modes for cross-national collaboration. The resulting knowledge and data will help policymakers to deal effectively with the effects of automation on the transport labour force. These results also feed into the Living Hub, a collaborative platform enabling stakeholder dialogue and enriched with a knowledge base of collected and co-created knowledge, so providing a solid basis for decision and policymaking.

Stakeholder co-creation activities including focus groups, interviews, workshops, and dedicated workers' events were organised in various European countries to generate the agenda, which was presented during the project final event on 5 March 2024.

ERTICO Partners: VEDECOM, Mercedes-Benz, AustriaTech



Vehicles and VRU Virtual eValuation of Road Safety

Start October 2022
End September 2025
Coordinator TNO
Partners 17 + 14 Associate

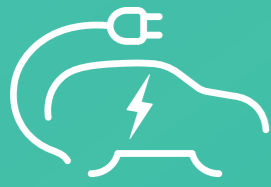
An accepted and reliable method to compare safety measures for CCAM is required to set policies for road safety in the coming decades and push for Vision Zero. This project will provide a prospective safety assessment framework able to handle a large variety of safety measures, from in vehicle safety technology, new vehicle types and infrastructure solutions to regulations that influence road user behaviour.

V4SAFETY includes methods and associated guidelines to project the results in future scenarios and across EU regions for use by policymakers, authorities, and consumer organisations. The proposed method will deal with the safety of all road users, including vulnerable road users and vehicle occupants.

The initial selection of use cases has been validated by external stakeholders. An initial version of the safety assessment framework has been developed for consultation with external stakeholders. The framework definition process will continue throughout the project on the basis of feedback received.

ERTICO Partners: TNO, BAST, CHALMERS, TOYOTA, LAB





Clean & Eco-Mobility

Passenger and freight transport are significant contributors to global greenhouse gas emissions, accounting for almost 25% of the total. Through ERTICO platforms, projects and partners, we are a key contributor in delivering cleaner, greener and more efficient climate-neutral mobility and transport.

The world of Clean and Eco-mobility is changing rapidly, from an increasing number of cities implementing low emission zones to the fact that, in 10 years, electric vehicles will have a range of 1,000 kilometres on a single fast charge.

ERTICO has a comprehensive approach to **advancing sustainable mobility, reducing pollution and improving air quality**, extending beyond **technological innovation** to reflect **user requirements, inclusiveness** and **societal needs**. The Just Transition Mechanism (JTM) is an important tool to ensure the move to a climate-neutral economy happens in a fair way, leaving no one behind.

A **decarbonised** future will be one of more efficient transport systems and greener mobility infrastructure, using **zero emission vehicles** (ZEVs) including e-buses, e-trucks, micro-mobility and battery electric **frugal cars**. We also track developments in other fuels: for example, OEMs

developing alternative internal combustion engines that use pure hydrogen, meaning no harmful tailpipe emissions - only water.

Our work aligns with the **2Zero Partnership** (towards zero emission road transport), which includes being involved in co-drafting its ambitious **Strategic Research and Innovation Agenda** (SRIA). 2Zero aims to accelerate the transition to zero tailpipe emission road mobility through R&I, for all types of passenger and freight vehicles, and with an integrated system approach covering both Battery Electric Vehicles (BEV) and Fuel Cell Electric Vehicles (FCEV). Many projects in ERTICO's portfolio come under the 2Zero banner.

While supporting the EU emission targets is key for our roadmaps, it also highlights important milestones in the collaborative journey towards the widespread adoption of zero emission mobility. **The electrification of transport** and

electro mobility are of course central; we are actively involved in advancing the development and deployment of interoperable EV infrastructure and eco-mobility solutions, integrated with user-centric approaches such as **Mobility as a Service** (MaaS). We continue to work closely with the MaaS Alliance.

SOLUTIONSplus, a flagship project running to mid-2024, aims to establish a global platform for shared, public and commercial low-carbon electro-mobility solutions. Designed to enable transformational change, ERTICO leads the project's activity involving clean energy start-ups worldwide, helping to develop innovative light electric vehicles for multiple uses: eco-mobility with a purpose.

The **ZEV-UP** project, coordinated by ERTICO and part of 2Zero, aims to develop zero-emission, multi-purpose and modular frugal BEVs for passengers and goods.

The ZEV-UP vehicle will consist of three variants adapted to different needs that reuse materials for sustainability, with a swappable battery to reduce user costs and improve energy efficiency.

Crossing into the freight and logistics sphere, the **NextETRUCK** project, coordinated by ERTICO Partner TNO, is also within 2Zero. Working towards efficient and affordable zero emission logistics with next-generation electric trucks, the goal is to decarbonise truck fleets and increase energy efficiency via zero emission electric medium freight haulage.

In public transport, **eBRT2030** is exploring a new generation of electric Bus Rapid Transit (BRT) systems. With pilot sites in six cities in Europe and one in South America, the objective is to improve public transport while tackling climate change and air pollution.

ERTICO is also a partner in the **LeMesurier** Coordination Support Action (CSA) that will determine common methodologies and an evaluation framework to measure multiple key performance indicators arising from 2Zero. This will bring new opportunities to assess the potential of projects and other 2Zero contributions, extending to issues such as total cost of ownership (TCO) of EVs.

The **metaCCAZE** project also supports the transition to electric, automated and connected urban mobility. These activities build on knowledge from earlier projects such as **MODALES**, which concluded in 2023. It sought to reduce emissions and air pollution from all types of on-road vehicles by encouraging low-emission driving behaviour and proper maintenance choices.

The **eCharge4Drivers** project, which concludes in 2024, has a similar user-centric approach, developing and demonstrating people-friendly charging stations, smart services and charging solutions.

ERTICO's **City Moonshot** publishes its second report in 2024, now covering more than 200 cities. Cities are declaring climate emergencies, measuring air quality, looking at public wellbeing, and adapting mobility strategy and transport policies based on green considerations. Activity can range from shorter term measures such as implementing (Ultra) Low Emission Zones (LEZ and ULEZ), which bring significant implications for driver choices, to promoting alternatives such as walking and cycling, and EV MaaS public transport. ERTICO is uniquely

placed to gather, assess, and share information in this area, enabling the cross-fertilisation of ideas and approaches.

Reflecting the approach and ethos of 2Zero, ERTICO itself has moved from the concept of green cars through green vehicles to the broader canvas of green mobility and greener transport systems.

We deliver innovation and create new value through our platforms, partners and projects, working to reduce emissions and deliver greener, cleaner and more inclusive mobility for all.

Roadmap



- | | | | |
|-----------------|-----------------|------------------|---------------|
| Projects | EBRT2030 | Platforms | ADASIS |
| | eCharge4Drivers | | MaaS Alliance |
| | MODALES | | |
| | NextETRUCK | | |
| | SOLUTIONSplus | | |
| | ZEV-UP | | |
| LeMesurier | | | |



European Bus Rapid Transit of 2030: electrified, automated, connected

Start 1 Jan 2023
End 31 Dec 2026
Coordinator UITP
Partners 49

eBRT2030 will define a new European concept of electric Bus Rapid Transit (BRT) for 2030 that improves the performance of Europe's entire urban bus system. The project will create a new generation of advanced fully electric, urban and peri-urban eBRT, enhanced with novel automation and connectivity functionalities to support sustainable urban transport and reduce emissions, pollutants and congestion. The innovative solutions developed as part of the project will be tested at seven demonstration sites in Europe and Latin America.

eBRT2030 has finalised definition of the technical requirements for demonstrating the use cases at the project's demonstration sites. In addition, comprehensive requirements and protocols for data collection during the trials have been defined. ERTICO also finalised the Innovation Management Plan for the project, an important step to effectively track and monitor the innovations developed as part of the project.

ERTICO Partners: ICCS, VTT, Arriva, CErTH



Easy charging, easy driving

Start 1 June 2020
End 30 November 2024
Coordinator ICCS
Partners 30

eCharge4Drivers is working to make electric vehicle (EV) charging more prevalent and user-friendly, with an improved charging station design and increased interoperability. The project focuses on user needs and expectations alongside commercial and regulatory requirements. The charging solutions developed include multi-outlet standardised charging stations, standardised battery swapping stations for light EVs, and a charging location planning tool. eCharge4Drivers also supports investors and authorities by developing guidelines for investors and regulatory recommendations.

eCharge4Drivers has continued to demonstrate its innovative solutions and services that enhance the user charging experience. Progress was made in all 10 demonstration sites, with the results promoted on the project website, and a final report on demonstration activities being completed. ERTICO recently contributed to the publication of the project's recommendations and guidelines designed to help investors and public authorities to deploy charging infrastructure and services in sustainable and user-centric ways.

ERTICO Partners: ICCS, CEA, ICOOR, Politecnico di Bari



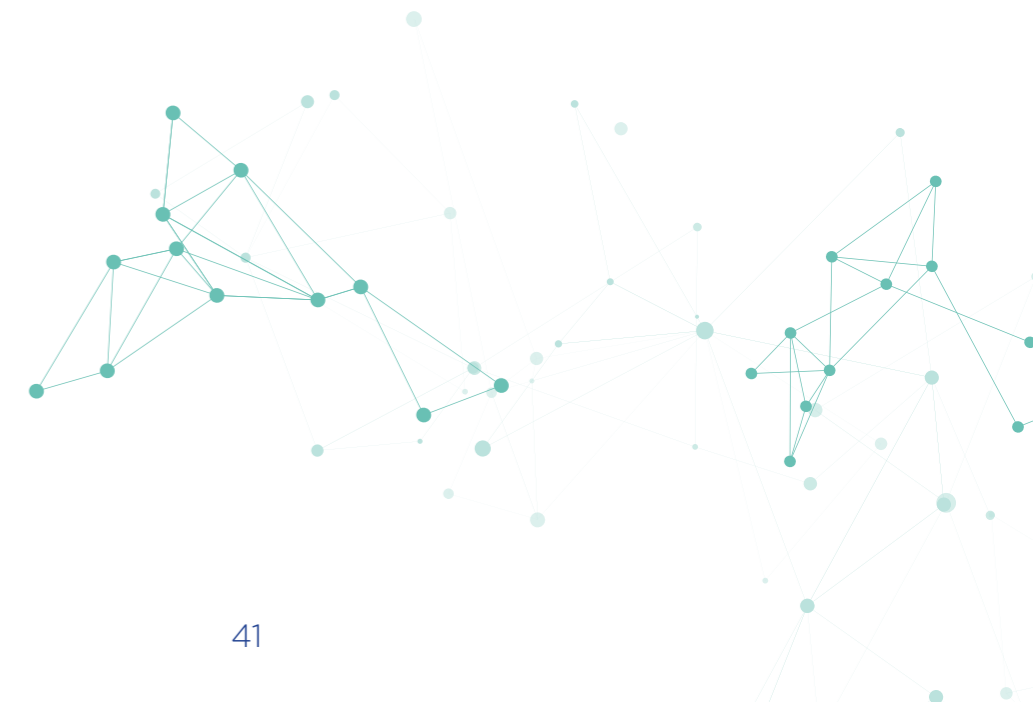
Efficient and affordable Zero Emission logistics through the NEXTgeneration of Electric TRUCKs

Start 1 July 2022
End 31 December 2025
Coordinator TNO
Partners 19

NextETRUCK is a flagship project focused on the electrification of zero-emission medium freight haulage for the decarbonisation of urban and sub-urban logistics. The project innovations include the deployment of e-powertrain components, architecture, smart charging infrastructure and management, improved thermal design of the cabin, IoT and digital tools. Three use cases deployed in Istanbul (Turkey), London (UK), and Barcelona (Spain), explore optimisation challenges for tomorrow's logistics seeking reliability, integration, affordability and flexibility, providing an end-to-end solution, addressing vehicle components, vehicles and fleets to infrastructure.

OEMs, vehicle operators, charging system suppliers, and charge management software suppliers are collaborating to develop fully functional zero-emission vehicles. The consortium is evaluating the feasibility of the project's key innovations for implementation across three pilot programmes set to commence operations in early 2025. Innovations include electric powertrain advancements for medium-duty freight transport, tools for optimised design and Total Cost of Ownership (TCO) reduction, novel business models for user acceptance and market uptake, digital twin design, fleet management tools, and virtual integration of Zero-Emission Vehicle (ZEV) systems. Flexible ultra-fast charging concepts are also explored.

ERTICO Partners: TNO, CErTH, Ford Otosan, NNG





Measuring the key performance indicators of the 2ZERO Partnership

Start 1 January 2024
End 31 December 2025
Coordinator E3Modelling + RICARDO
Partners 14

2ZERO is a co-programmed partnership to accelerate the transition to a European carbon-neutral road transport system by 2050. It aims to achieve zero tailpipe emissions through collaboration and innovation. By 2030, it plans to halve conventionally fuelled cars in cities, leading to their phase out by 2050. The Strategic Research and Innovation Agenda (SRIA) outlines goals and strategies with input from diverse stakeholders, ensuring coordinated efforts and progress tracking.

LeMesurier is leading development of a comprehensive framework to evaluate the 2ZERO partnership's progress in sustainable road transport research. It monitors key performance indicators (KPIs) from the SRIA, assessing the impact of relevant projects towards the KPIs. Findings are shared with stakeholders, policymakers, and the public. LeMesurier will also provide recommendations and methods for further evaluation and analysis.

ERTICO Partners: CERTH



[limesurier](#)
[limesurier-project.eu](#)



Frugal zero-emission vehicle concepts for the urban passenger challenge

Start 1 January 2024
End 30 June 2027
Coordinator ERTICO
Partners 17

ZEV-UP aims to revolutionise urban mobility with the introduction of a user-centric, zero-emission battery electric vehicle (BEV). The project will propose three variants of its frugal concept vehicle, tailored to diverse user needs, including a two-seater vehicle for urban use and a four-seater longer vehicle for families or commercial use. These modular vehicles, adaptable for both passenger and goods transport, will feature a unique swappable battery system for cost reduction and ease of use for the user.

Demonstrations in Budapest and Istanbul will validate user acceptance and assess the vehicle innovations.

ERTICO Partners: Akkodis, Ford Otosan, ICOOR, University of Leeds, Rhoé, VEDECOM, CERTH, AVERE, Panasonic



[zev-up-project](#)
[zev-up.eu](#)



Integrated urban electric mobility in the context of the Paris Agreement, UN SDGs and New Urban Agenda

Start 1 January 2020
End 30 June 2024
Coordinator UEMl
Partners 46

SOLUTIONSplus is a flagship project to support the sustainable electrification of road transport in large urban areas in Europe, Asia, Africa and Latin America. The project encompasses city-level demonstrations to develop and assess a wide range of e-mobility solutions, including eTukTuks, eCargoBikes, eBikes and other small electric vehicles. The project provides a comprehensive toolbox, capacity development and replication activities to ensure a long-lasting transition to low-carbon urban mobility.

As the project concludes in June 2024 with a final event showcasing the results and impacts of SOLUTIONSplus around the world, all project activities have now been completed. This includes demonstration activities, regional training and capacity building activities, with concluding events across the project's regions. The SOLUTIONSplus global e-learning programme ended with a final e-course focused on the electrification of freight. ERTICO also concluded its workshops with e-mobility start-ups, giving these companies new insights into their business and value propositions to help create a lasting impact beyond the project's completion.

ERTICO Partners: Technical University of Denmark, TNO, VTT, T-Systems (Deutsche Telekom), SWARCO



[@SOLUTIONS_EU](#)
[solutionsplus.eu](#)



Urban Mobility



The mobility industry is experiencing a significant and profound transformation driven by digitalisation and the rise of the sharing economy, while users aspire to have multiple affordable means of transport to move seamlessly. Addressing urban mobility represents one of the most important challenges in regional and metropolitan areas and also holds the greatest potential for substantial impact. We define the future of Urban Mobility as a multimodal, user-centric approach that is equitable, safe, clean and sustainable. This is founded on two key pillars: moving away from private cars to more sustainable modes and services; orchestrating transport networks and mobility for the efficient and seamless door-to-door mobility of passengers and freight.

ERTICO is actively supporting the widespread deployment of the next generation of cooperative, balanced, seamless and personalised mobility services in regions and cities of all sizes. We continue to move from concepts and strategy to delivery: operationalising new approaches. Our Urban Mobility roadmap targets savings of one million hours of travel time, one million tonnes of CO2 and 10,000 lives by 2030.

Sustainability and reducing emissions, including Net Zero activities, remain central. We are part of **CIVITAS**, the flagship EU programme for sustainable urban mobility, and new partners in its **New Mobility Services (NMS) community**, playing an active role in urban mobility design. The **SUM** (Seamless Shared Urban Mobility) project seeks to revolutionise mobility in

more than 15 European cities by 2026, increasing to 30 by 2030, integrating new and shared mobility systems with public transport. As well as greener mobility, **SUM** innovations cover **intermodality, interconnectivity, safety, resilience** and **replicability**. Living Lab deployments are taking place in nine cities, which will receive training through the **ERTICO Academy** on knowledge sharing and peer-to-peer capacity building.

Our work also focuses on greater equity in Urban Mobility: more **inclusive, equitable and accessible mobility** for all, with the same access, rights, and opportunities. Involving the public helps to ensure the delivery of user-centric solutions, with the **SINFONICA** project as example.

Other key trends of our work reflect the rise of **New Mobility Services (NMS)** towards an **integrated multimodal future**. These services are being enabled by co-creating solutions that directly involve the public and using mechanisms of our Partnership that include Innovation Platforms such as TM2.0 for interactive traffic management. We combine **user-centric thinking** with **innovative technologies**, aligned with **policymaking** including the EU Urban Mobility Framework. We also play an important role in the European Commission's Expert Group on Urban Mobility (EGUM), including co-leadership of the working group on the future of mobility and use of space.

We are also working on delivering new **efficiencies** including integrating goods and freight into passenger transport systems

and shared spaces. We apply technology and connectivity to enable mobility data spaces and provide greater flexibility by **dynamically allocating road space**, and we continue to explore opportunities in **Urban Air Mobility** (UAM).

Mobility as a Service (MaaS) is another aspect of delivering efficient and integrated multimodal mobility focused on user needs. We continue to contribute to the public-private MaaS Alliance with active participation by ERTICO's CEO as Vice President, and involvement in the working groups on Business Models and Governance, User Needs and Acceptance, and Technology and Standards.

Efforts to bring together the MaaS market include exploring the potential of emerging services including mobility credits or mobility wallets. This work includes providing expert advice and review for a new national MaaS app for Turkey.

SOLUTIONSplus is another example of our work in multiple demonstration actions that continue to push forward the integration of cleaner urban e-mobility in local, national and global policy. Developments include e-bikes in Kigali and Dar es Salaam, eScooters in Hamburg, eCargoBikes in Quito

and Montevideo, eTukTuks in Dar es Salaam, eMopeds in Hanoi, and e3Wheelers in Kathmandu.

Replicability is increasingly important, and we play an important role in the **cross-fertilisation** of solutions and approaches across the urban mobility ecosystem, including research, testing and piloting, adapting to the needs of local people, economic conditions, and cultural contexts. With the EU's Mission to create at least 100 Climate-Neutral and Smart Cities by 2030, these cities will be experimentation and innovation hubs to help all European cities follow suit by 2050. One of the leading partnership projects in this sphere is **REALLOCATE**, aiming at transforming streets into inclusive, green, safe and future-proof urban spaces, where communities live and thrive.

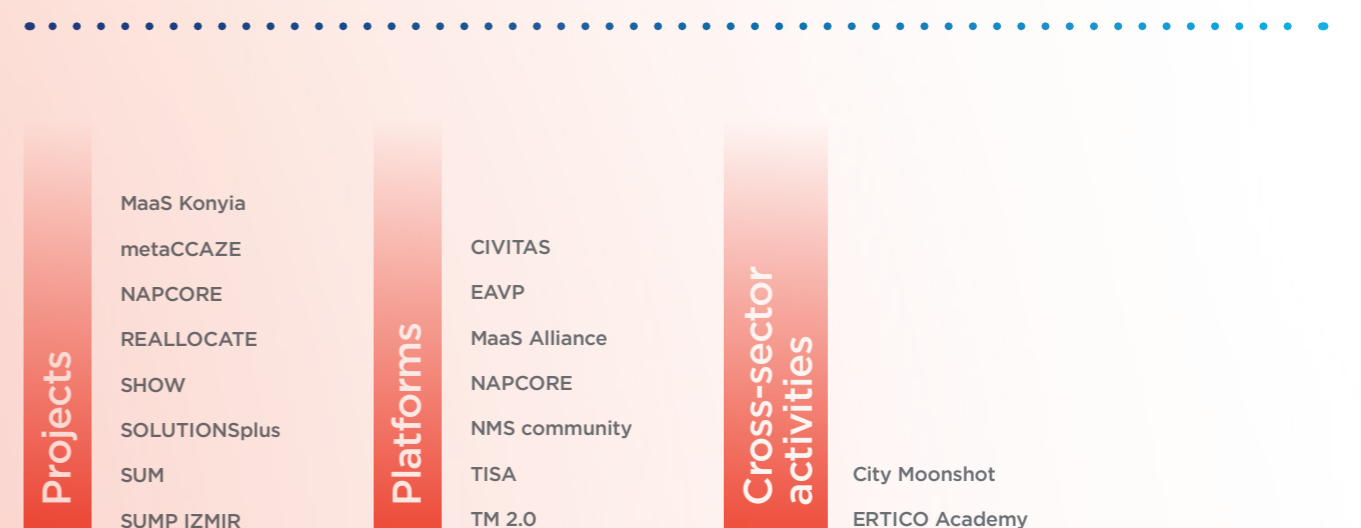
The new four-year, €25 million **metaCCAZE** project, coordinated by ERTICO, will also help cities accelerate their transition to greener urban mobility. It embeds European strategies such as the EU Green Deal, Climate-Neutral and Smart Cities Mission, and 2ZERO and CCAM partnerships into concrete innovation actions, with pioneering technologies and approaches for passenger and freight services, and related infrastructure. Successful approaches from the four

Trailblazer Cities of Amsterdam, Munich, Limassol and Tampere will be transferred to six follower cities of Athens, Kraków, Gozo, Milan, Miskolc, and Paris (Ile-de-France) region.

We continue to interview cities for the **ERTICO City Moonshot** initiative, with more than 220 cities taking part globally (the final total will be 300). This expanding knowledge database helps to connect policy with real-life application, sharing knowledge and ideas.

Together with our Partners, ERTICO continues to work at the confluence of mobility and transport, shaping and delivering solutions for the future of urban environments. We understand that mobility, the act of moving, requires genuine user-centricity to be successful for all. And that transport, how we get from A to B, also requires equity: in networks and infrastructure, innovation, and in the services provided, again focused on users and extending across public transport, operators, government, freight and logistics, and technology.

Roadmap





Flexibly adapted metainnovations, use Cases, Collaborative business and governance models to Accelerating deployment of smart and shared Zero Emission mobility for passengers and freight

Start 1 January 2024
End 31 December 2027
Coordinator ERTICO - ITS Europe
Partners 44

metaCCAZE's vision is to speed up deployment of smart systems that combine electric, automated and connected mobility and related infrastructure by developing flexible technologies adapted to current and evolving sustainable urban mobility needs. The objective is to develop a flexibly adapted, resilient and transferable technologies and infuse them with user-centric approaches to zero emission shared mobility services for passengers and goods. These metainnovations will be tested, deployed and monitored in 10 Mission Cities across 10 European countries: Amsterdam, Munich, Limassol, Tampere, Milan, Gozo, Athens, Miskolc, Krakow, Paris.

metaCCAZE plans to organise a series of MetaDesign activities with multisector stakeholders and different population groups, developing metadesigned shared zero-emission mobility use cases alongside collaborative business and governance models. The final aim is to streamline and transfer metaCCAZE generated knowledge and policy recommendations to any city to build capacity and skills to implement smart shared and zero-emission mobility systems.

ERTICO Partners: Technolution BV, VEDECOM, City of Tampere



@metaccaze
 metaccaze-project
 metaccaze-project.eu



Rethinking the dEsign of streets And public spaces to Leverage the mOdal shift to Climate-friendly Active Transport Everywhere

Start May 2023
End April 2027
Coordinator UCD - University College Dublin, National University of Ireland
Partners 37

REALLOCATE's main objective is to pave the way towards climate-neutral, safe, inclusive and smart European cities through integrated and innovative sustainable urban mobility solutions that will address the needs of diverse groups and communities, while rebalancing street space allocation. The project will empower 10 twinned Mission Cities (Gothenburg-Tampere, Heidelberg-Utrecht, Lyon-Warsaw, Budapest-Zagreb, Barcelona-Bologna) by providing horizontal thematic expertise, supporting them to build a local innovation ecosystem to develop and deploy zero-emission, shared, inclusive, active and human-centred mobility interventions. REALLOCATE is a project under the CIVITAS Initiative.

Following its kick-off in June 2023, the consortium worked on several activities, including a study visit in Lyon (9-11 April 2024) where focus was given to thematic workshops on safe and sustainable school areas, concepts for space reallocation, data for safety, and digital integration for accessibility. In addition, REALLOCATE announced that the cities of Braga (Portugal), Braşov (Romania), Lviv (Ukraine), Sarajevo (Bosnia and Herzegovina) and the Ljubljana Urban Region (Slovenia) had committed to testing the replicability of REALLOCATE's mobility measures. A series of webinars to exchange knowledge between REALLOCATE cities and project partners was also organised, to help to shape the Living Lab ideas.

ERTICO Partners: CERTH, VTT, Tampere, DEKRA



@reallocate_eu
 reallocate-project
 reallocatemobility.eu



Seamless Shared Urban Mobility

Start 1 June 2023
End 31 May 2026
Coordinator INRIA
Partners 30

SUM aims to transform current transport networks and mobility behaviour by integrating new and shared mobility services with public transport through the deployment of innovations in mobility management, ticketing, real-time scheduling, and demand prediction. This transformation creates affordable and reliable solutions that consider the needs of all stakeholders and citizens. The mission of SUM is to facilitate the transformation of mobility in 15 European cities by 2026 and in 30 European cities by 2030.

In its first year, the SUM project established a specification, mobility status quo and needs of the project leading Living Labs (Munich, Geneva, Jerusalem, Athens) forming a base for the planning and implementation of new and shared mobility services. A methodology to evaluate user acceptance of these services has been developed. Furthermore, the project has established a web based PanEuropean Open Data platform that enables sharing of push and pull measures, monitoring and access to shared mobility services in each Living Lab and other cities outside the project. SUM was involved in more than 10 joint activities and events supported by the CIVITAS New Mobility Services Cluster.

ERTICO Partners: VEDECOM, Chalmers



@SUMProjectHoEU
 sum-project-horizon-europe
 sum-project.eu

SUMP IZMIR

Start July 2022
End July 2024
Coordinator MuConsult - Panteia
Partners 6

Sustainable Urban Mobility Plan of Izmir

This project seeks to prepare a Sustainable Urban Mobility Plan for the Turkish provincial capital of Izmir (SUMP Izmir) in line with European best practices and standards. SUMP Izmir will define policies and actions to be implemented in the mobility sector based on an ambitious long-term vision, clear targets and objectives, and efficient packages of measures. The policies and interventions defined by the SUMP will incentivise sustainable mobility, and increase the use of non-motorised trips, shared mobility and public transport. The proposed measures would facilitate the shift away from car dependent travel towards decarbonisation, contributing to a reduction in congestion and other negative effects due to excessive use of private vehicles.

By the completion of the project, a new transport model will have been established, a common vision and indicators will have been developed, and a SUMP action plan with concrete proposals for a pipeline of measures and projects will have been carried out.



Enabling vehicle interaction with traffic management

Start June 2014
Coordinator ERTICO - ITS Europe and SWARCO
Partners 40

The TM 2.0 Innovation Platform brings together public and private sector organisations to focus on solutions for advanced interactive traffic management, with a governance model based on the core principles of co-opetition and trust among traffic stakeholders. TM 2.0 aims to improve the entire value chain for consistent traffic management and mobility services by enabling vehicle interaction with traffic management -achieving the convergence of mobility services and traffic management.

TM 2.0 further progressed the concept of Mobility Network Management (MNM) and successfully ran Task Forces on: Traffic Management Plans and Measures; ITS Services Standardisation Requirements; TM 2.0 Levels of Cooperation; and AI and Traffic Management. The Platform also organised workshops on the needs of service providers and public authorities together with the NAPCORE project. TM 2.0 was presented at events including Busworld, the European ITS Congress, the ITS Canada Congress, ITF, and the Urban Mobility Days. In June 2023, TM 2.0 actively co-organised the ISFO Symposium in Vienna and sponsored the ISFO Student Paper Awards. TM 2.0 was presented at the ITS Committee at TRB in Washington in January 2024.

ERTICO Partners: ICCS, CTAG, HERE Technologies, Be-Mobile, PTV Group, TomTom, Technolution Move, SWARCO, Kapsch TrafficCom, City of Hamburg, Government of Flanders, Federal Roads Office FEDRO, Dutch Ministry of Infrastructure and Environment, Swedish Transport Administration, RTA - Dubai, Concello de Vigo, Norwegian Public Roads Administration, Yunex Traffic



SHared automation Operating models for Worldwide Adoption

Start 1 January 2020
End 30 September 2024
Coordinator UITP
Partners 70

SHOW is Europe's most significant and holistic real-life CCAV urban demonstration to advance sustainable mobility. The project investigates and deploys automated mobility for different transport modes: Public Transport (PT), Demand-Responsive Transport (DTR), Mobility as a Service (MaaS), and Logistics as a Service (LaaS). The project's demonstrations in several European cities are testing various use cases and business models in real-world conditions, ranging from residential neighbourhoods to complex urban environments. The project has a strong consortium of 70 partners and boosts collaboration throughout the EU and beyond, enhancing networking with the US, Asia and Australia.

SHOW is now coming to an end. Since its kick-off, the project has made great strides in identifying priority use cases for automation, developing new business models, establishing a common system architecture, improving vehicle functionality, and deploying demonstration fleets with connected services and infrastructure. The 16 sites deployed, with operations in various European countries, have been crucial to test a variety of use cases and business models in real-world conditions. SHOW's findings are helping to foster replications and define recommendations to advance the EU roadmap on shared automated mobility.



ERTICO Partners: CERTH, T-Systems (Deutsche Telekom), Kapsch TrafficCOM, SWARCO, INDRA, TNO, VEDECOM, VTT, ICCS, CEA, LINKS Foundation, DTU, DRL, City of Tampere



Transport & Logistics

With the goal of managing the movement of goods, people and information more efficiently and effectively, ERTICO plays a central role in helping to optimise transportation networks, better coordinate logistics operations in a multimodal world, and ensure timely and secure delivery in user-centric ways.

We are contributing to the transition from a market primarily driven by services and software to one that is data driven. This shift requires re-evaluation of strategies, investments and capabilities which are closely intertwined with technology advances including Big Data analytics, artificial intelligence, machine learning, Internet of Things (IoT) devices, telematics and automation, which bring new opportunities for innovation and growth. **Technology integration** is a key enabler in this field, and we work to continue the positive trends in urban logistics and prioritising initiatives that address changing needs. With the increasing **digitisation of logistics**, we support the development of new technologies and innovations to streamline operations.

More recent developments such as drone delivery, 3D printing, and robotic automation require feasibility studies, pilots, testing, and successful scaling. **Cybersecurity** is an increasingly important strand. With technology-enabled **data sharing and information exchange** vital for future logistics, we had the honour of receiving the

'Innovation Award 2023 for Data Sharing and Data Transformation' in 2023. This reflects our contribution in various EU-funded initiatives, including projects 5G-LOGINNOV, BOOSTLOG and the ERTICO-coordinated **FENIX** project which supported the development of future data spaces and e-GATE federation for public platforms.

Reducing emissions and promoting **eco-friendly practices** are central to our work: from green logistics strategies, electro-mobility to zero-emission vehicles. **Sustainable logistics** not only aligns with Environmental, Social and Governance (ESG) goals but also reduced costs and enhanced brand reputation. We continue to monitor policy and industry standards at all levels, advocating for change when needed while actively supporting and enabling **regulatory compliance**.

Our work contribute to improved **supply chain management**, from point of origin to point of consumption. This includes optimising distribution and improving inventory management to minimise costs and maximise profitability. Supply chain resilience means

companies can better withstand disruption such as natural disasters and geopolitical events. We are part of the **PLOTO** project to improve the resilience of inland waterways (IWW) against climate change, guaranteeing network availability even in adverse conditions.

Customer service is another evolving issue, in particular connected to **urban logistics and last-mile delivery**. This requires user-centric initiatives such as timely delivery, accurate tracking, responsive support, and efficient problem resolution. Companies are adopting new strategies to address last-mile delivery, optimise warehouse operations, and meet the needs of retailers and consumers more dynamically, deploying innovative measures including micro-fulfilment centres, crowd-shipping and delivery drones. The new **cityVERSE** approach combines real-time data, digital modelling and augmented reality to create an immersive and interactive user-focused experience while helping to address congestion, pollution and air quality issues. cityVERSE is a dynamic platform for urban planning, smart city initiatives, and community engagement,

integrating diverse data sources and visualising complex urban environments. It empowers cities to become more resilient, inclusive and sustainable.

With **advanced traffic management** also playing a critical role, ERTICO's **TM2.0** platform was deployed at a pan-European scale in FENIX. This included integrated systems linked to TEN-T corridors for logistics, connecting infrastructure components (traffic lights, road sensors, cameras, digital signage) to a central control centre. It also brought forward opportunities to optimise traffic flows, reduce congestion, and improve road safety, with dynamic strategies such as adaptive signal control and incident detection.

Companies are increasingly adopting **fleet management systems**: using GALILEO tracking, telematics and diagnostics tech to monitor and manage vehicles in real time. With visibility of vehicle location, status and performance, companies can optimise routes including last mile, reduce fuel consumption and costs, improve driver safety, and enhance customer service.

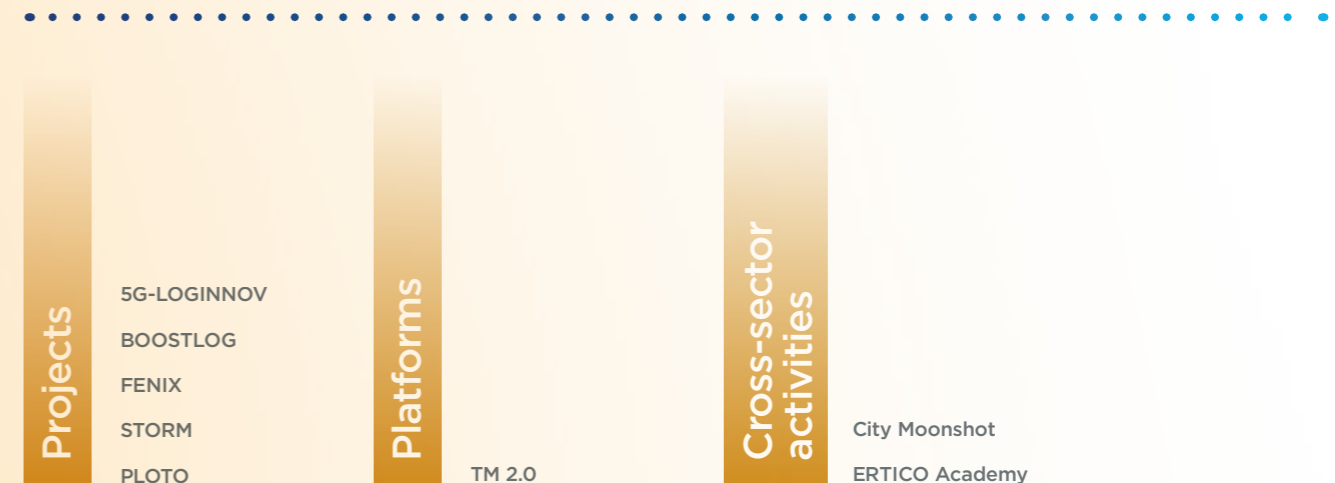
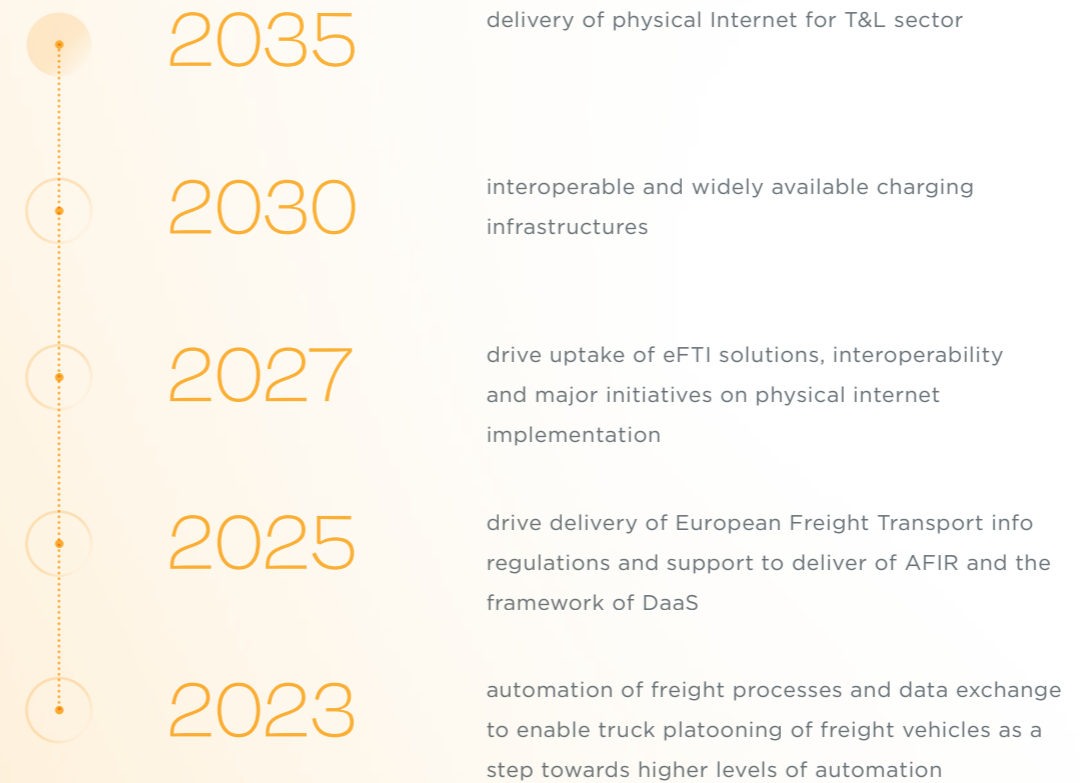
With 74% of goods exported or imported to the EU through ports, we have leveraged 5G and related technologies to

develop **smart port and maritime logistics solutions**. Connecting stakeholders between shipping companies, terminal operators, customs authorities and logistics providers, the ERTICO-coordinated **5G-LOGINNOV** project included solutions for automated cargo handling, predictive maintenance, and real-time monitoring. These provide faster turnaround times and less congestion for improved port efficiency and reduced environmental impacts.

With a strong contribution from FENIX, the **Transport & Logistics Data Space** will soon be a reality. This integrates diverse platforms with multiple data sources and analytics tools to help optimise operations, enhance efficiency, and improve decision-making industry-wide and support the revolution in logistics management, driving innovation, agility and competitiveness in a dynamic global marketplace. Stakeholders will gain new insights into inventory management, transportation routes, warehouse operations, and many more critical areas, with advanced analytics and predictive modelling enabling organisations to identify trends, mitigate risks, and optimise resource allocation to streamline logistics processes and deliver superior customer experiences.

By addressing unique challenges and opportunities across different transportation modes, ERTICO supports future directions of **operations in cities**, aiming at reducing the environmental impacts and enhance supply chain efficiency. Looking ahead, we foresee great opportunities with the **3DxVERSE** project. Coordinated by ERTICO, this new project will focus on building the **European Digital Infrastructure Consortium**, using **3D Digital Twins technology** to enhance sustainable travel and community living. It will also look at combining sustainability with technologies such as AI and VR to improve digital inclusion, supporting crucial steps towards building a more resilient and environmentally friendly digital economy and society in Europe.

Roadmap





Using 5G technologies to innovate logistics and ports for a sustainable future

Start 1 September 2020
End 30 November 2023
Coordinator ERTICO – ITS Europe
Partners 15

5G-LOGINNOV aimed to optimise freight and traffic operations at ports and logistics hubs by using innovative concepts, applications and devices supported by 5G technologies, Internet of Things (IoT), data analytics, next-generation traffic management, CCAM, and the 5G logistics corridor. 5G-LOGINNOV provided the framework for next-generation traffic management in port areas and city ports to handle upcoming and future capacity, coping with traffic congestion and environmental challenges while developing economic and innovative business opportunities for their region. To support this, the consortium collaborated with five innovative start-ups aiming to develop 5G-based solutions in the framework of the project's three Living Labs.

The project concluded in November 2023 and effectively showcased its outcomes during the Final Review Meeting in February 2024. During this event, partners presented the project's overall achievements, emphasising the significant effort invested in developing adaptable 5G-related technologies. These technologies were demonstrated to have applicability beyond the three living labs, showcasing their potential for diverse scenarios.

ERTICO Partners: Continental, ICCS, ICOOR, SWARCO, T-System, Vicomtech, Huawei



Improving the resilience of Inland WaterWays (IWW) against climate change

Start 1 September 2022
End 28 February 2026
Coordinator NetCompany-Intrasoft
Partners 20

The PLOTO project will integrate downscaled climate change scenarios tailored to Inland WaterWays (IWW) infrastructures with simulation tools and real-time data to craft a Common Operational Picture (COP) and Incident Management System (IMS), and also create a customised forecasting module. This initiative aims to bolster the resilience of IWW infrastructure and associated land infrastructure, guaranteeing dependable network availability even in adverse conditions such as severe weather, accidents, and other hazards.

ERTICO is intensifying its engagement in PLOTO's dissemination and project communication efforts, which now include an enhanced Dissemination and Communication Plan. Substantial support has also been allocated to the exploitation and standardisation tasks, further bolstering the project's overarching strategy to maximise its impact.



Boosting impact generation from R&I on integrated freight transport and logistics

Start 1 January 2021
End 31 December 2023
Coordinator ALICE
Partners 13

BOOSTLOG examined the impact of freight transport and logistics research to support competitiveness and address the climate challenge. It aimed to boost the impact generated by future EU-funded R&I projects to contribute to EU policy objectives, address societal challenges and increase EU competitiveness. The project has mapped more than 150 projects, identified successful implementation cases, and developed actionable reports on subjects prioritised by stakeholders.

BOOSTLOG transformed the European freight transport and logistics R&I ecosystem by directly impacting how selected investments can contribute to EU policy objectives and to the sustainability and competitiveness of organisations. Assessing impacts by identifying the gaps and priorities for future funding programmes, focus areas include urban logistics, logistics nodes, multimodal freight, corridors and transport networks, data sharing, and coordination and collaboration. Other activities involved aligning initiatives for sustainability measurement schemes applicable to European-funded R&I projects' sustainability impact assessments. This entailed defining relevant sustainability KPIs and frameworks, aligning existing approaches, deriving new ones, and reviewing them with stakeholder groups including the European Commission, evaluators, and project proposal submitters.

BOOSTLOG will continue to enhance the impact of its outputs on end users of freight transport and logistics by establishing collaboration frameworks to exchange best practices at regional, national, and European levels.

ERTICO Partners: ICCS



Cross-Sector Activities



Towards a common European mobility data space (EMDS)

Start 1 November 2023
End 31 October 2026
Coordinator acatech
Partners 39

deployEMDS aims to support the European Union's digital sovereignty, notably by reinforcing EU critical digital capacities, through data infrastructure, governance, and processing. Building on the work done by the preparatory action PrepDSpace4Mobility, the primary objective is to deploy an operational data space and common governance mechanisms. This data space will facilitate decentralised, trusted and secure data sharing. deployEMDS will actively support real-life implementation projects in nine cities and regions.

Following its launch in November 2023, deployEMDS activities have included the gathering and analysis of requirements for the technical infrastructure to support deployment of a cross-border operational data space. This will require specifying the data space architecture and building blocks. Work also moved forward in mapping governance and regulatory structures in mobility data sharing, with the first workshops launched. deployEMDS is establishing an Innovation & Scaling Group to unite diverse stakeholders including industry players, SMEs, and startup hubs to develop additional use cases in collaboration with partner cities. A network of Follower Cities will also contribute to the EMDS with the backing of municipalities and other local and regional stakeholders.

ERTICO Partners: Cefriel, City of Tampere, Vlaamse Overheid, VTT



JULIA

Joint Developments for Urban resilience connecting users to public transport through space technology

Start 1 January 2024
End 30 June 2026
Coordinator FACTUAL Consulting
Partners 13

JULIA is an EU-funded project supported by the European Union Agency for the Space Programme (EUSPA). It seeks to enhance public transport networks, covering buses, trains and bicycles by integrating EU Space services. JULIA leverages the European Global Navigation Satellite System (EGNSS), encompassing Galileo for positioning and timing data for improved accuracy. It also uses Copernicus to provide an air quality information layer for Public Transport Operators and other stakeholders, ultimately informing end-users about urban environments. Through pilot locations across Europe, JULIA strives to create a more advanced and user-friendly public transport ecosystem, ensuring market readiness levels TRL7-9.

JULIA supports a comprehensive solution for more sustainable and inclusive public transportation and prioritises user needs to improve reliability, safety, and convenience for all. Building on Nemi's technology, the project is creating a user-friendly "Transit Tech Operating System" that streamlines operations for providers and enhances passenger experience. The JULIA consortium develops innovative applications using space services and data, such as real-time trip validation, AI-powered planning, and improved cycle lane safety assessment systems, ultimately reducing barriers to sustainable travel.

ERTICO Partners: CERTH, ARRIVA



PRIVATEER

Privacy-first Security Enablers for 6G Networks

Start 1 January 2023
End 31 December 2025
Coordinator Space Hellas S.A.
Partners 13

PRIVATEER is paving the way for 6G 'privacy-first security' by studying, designing and developing innovative security enablers for 6G networks, following a privacy-by-design approach. PRIVATEER addresses the challenge of a significantly widened 6G threat landscape while preserving the privacy of all actors in the 6G chain by deploying a 'privacy-first' 6G security integrated framework. PRIVATEER works on relevant use case scenarios for two verticals with significant security and privacy requirements, Intelligent Transportation Systems (ITS) and Smart Cities.

PRIVATEER has focused on designing and building a framework for 6G networks, particularly emphasising threat landscapes and use case requirements. The consortium released an open-source dataset for DDoS attacks in 5G networks and integrated Explainable AI (XAI) to make machine learning models comprehensible and transparent. The project aims to develop security analytics using decentralised learning techniques to detect anomalies and classify threats in networks, addressing challenges such as imbalanced datasets and privacy concerns. A recent public deliverable outlines use cases and requirements for implementation, emphasising privacy-first security within Smart Cities and ITS for future network generations.

ERTICO Partners: ICCS





STREnGth_M
Strengthening EU
Road Transport R&I

Stimulating road Transport Research in Europe and around the Globe for sustainable Mobility

Start 1 February 2023
End 31 January 2026
Coordinator AVL List GmbH
Partners 24

STREnGth_M contributes to the planning of road transport research and innovation (R&I) in Europe by identifying future research needs, updating and supporting the coordination of Strategic Research Agenda roadmaps, and facilitating exchange between road transport research-related Horizon Europe partnerships and platforms. This Coordination and Support Action tracks global progress in e-mobility and measures the feasibility of innovative solutions for prospective and emerging markets in Africa, Asia and Latin America.

In its first year, STREnGth_M has analysed road-mapping methods at European, EU Member State and international levels, as well as supporting events such as the Results from Road Transport Research (RTR) Conferences 2023 and 2024. ERTICO's role includes the ongoing mapping of research, innovation and cooperation capacities in EU Member States, which will help to strengthen links between European, national and regional programmes. ERTICO is also establishing a Multiplier Group of external experts to extend the reach of the project across the EU and to ensure stakeholder engagement.

ERTICO Partners: Aristotle University of Thessaloniki



ERTICO-led Initiatives



Engaging, inspiring and empowering cities around the world

Start 2020
Coordinator ERTICO - ITS Europe

City Moonshot is the ERTICO initiative that seeks to engage, inspire and empower cities by understanding their needs and requirements in mobility and transport. To this end, it performs a global survey, interviewing 300 city and region representatives. The data collected translates into a comprehensive report that analyses the cities' main concerns and priorities. Considering cities' role as key players in a more efficient, inclusive and sustainable industry, City Moonshot also gathers studies, projects, new technologies and best practices.

City Moonshot has already interviewed nearly 200 cities. Following Phase I emphasis on data exchange, Mobility as a Service (MaaS), and sustainability policy priorities, the team has included two current topics: e-mobility and Urban Air Mobility (UAM). Phase II findings will culminate in a detailed report. The team has held webinars on these topics to foster engagement, facilitating knowledge exchange and status updates.



Sharing knowledge for tomorrow's journey

Start 2016
Coordinator ERTICO - ITS Europe

ERTICO Academy is a unique ITS and mobility training programme tailored to the needs of public authorities and their stakeholders. It offers a blend of training programmes enriched with workshops delivered by ERTICO in-house experts and our prestigious international partners, to upskill for rapid changes in smart mobility and transport systems. The Academy training programs aim to increase mobility literacy and deployment readiness of trainees on the latest innovations.

In 2023, ERTICO Academy worked to increase the accessibility of training by adopting a four-level hands-on approach to learning, cross-fertilisation and knowledge growth. We are continuing conversations and dialogue with public authorities, including government ministries and cities, in providing in-person training at their local levels and offering a free access to the online courses available on ERTICO Academy website.



Our Thought Leadership Role

We empower knowledge sharing by connecting the dots across all mobility stakeholders, facilitating the exchange of expertise and ideas, and engaging in dialogue with the EU institutions and policymakers. We also support

international institutions through active participation, cooperation and interoperability on all levels with national, regional and city authorities.

With this multifaceted role in we empower a comprehensive vision for universal mobility. Acknowledging key trends, leveraging best practices, and harmonising standards, we navigate the evolving landscape of smart and sustainable mobility.

Activity Development Days

We host annual Activity Development Days (ADDs), mirroring our mission to develop, promote and facilitate the deployment of smart mobility. Led by our Innovation & Deployment department, we invite Premium Partners to reaffirm future goals and priorities in line with the implementation of each focus area and respective roadmap.

The 2023 edition, held from 21-22 June, included a series of presentations and workshops on identifying common innovation targets and upcoming Calls and Tenders in line with the policy developments of the European Commission. Representatives from the Commission (DG MOVE and DG RTD), among many other funding bodies, were invited to share information and insights into strategic objectives and future priority plans. Positive responses consistently flow from ERTICO Partners following ADDs: they provide a unique opportunity to actively contribute to future plans and action points.

Open Dialogues & Knowledge Sharing

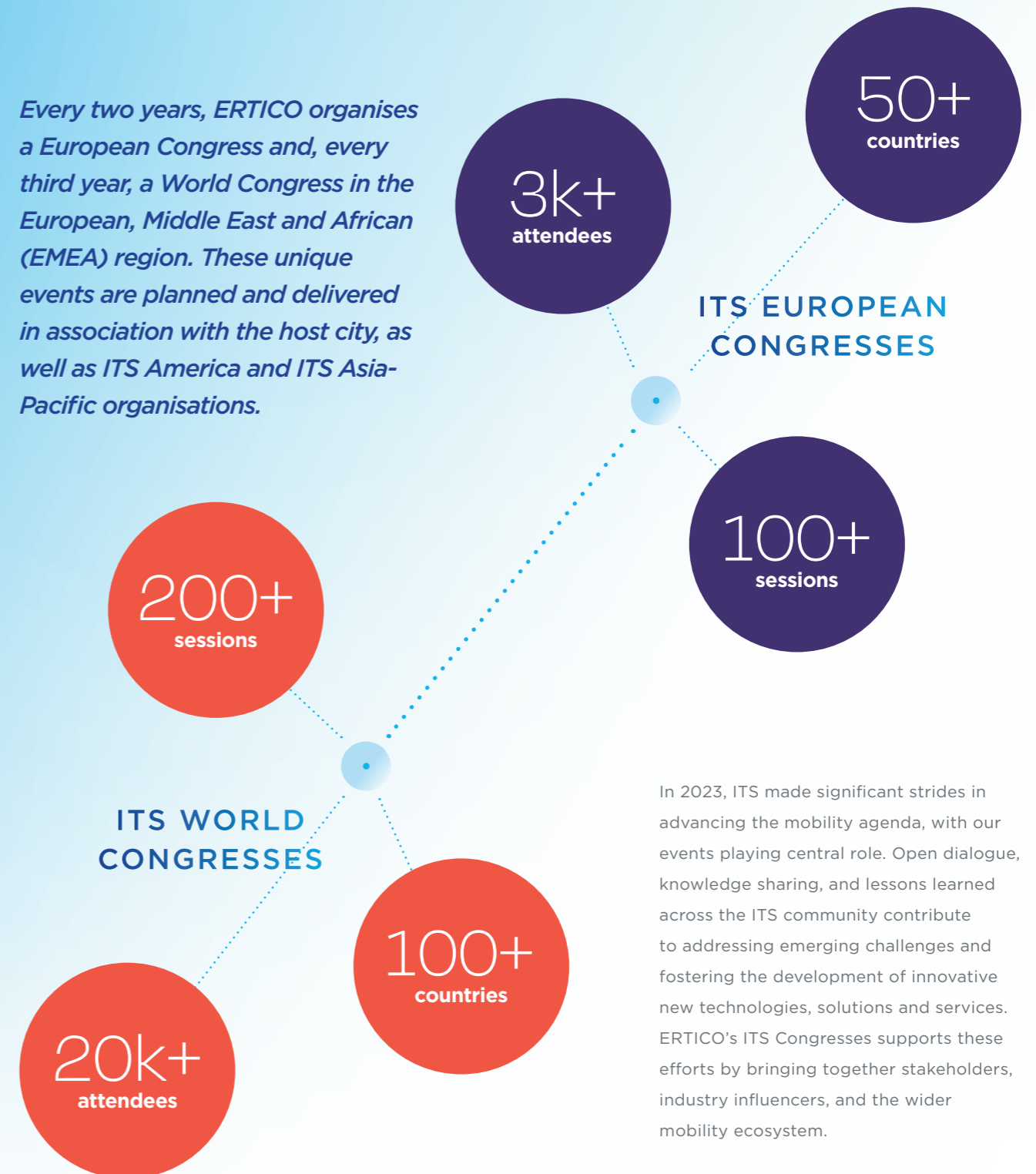
We introduced many new initiatives under the Thought Leadership umbrella this year, including the ITS Market Radar Report, with key market insights and technological trends, but also challenges, employment dynamics, and future trajectories. This first report in a series highlights two of our Partnership sectors – Service Providers and the Traffic and Transport Industry. Access the report here.

‘Connecting Dots & Talks’ is our new Podcast series, a visionary platform aiming at gathering our Partners with industry leaders and experts to share insight, foster collaboration and uncover trends. We invite you to discover all the episodes available on Spotify here.

Our new Partnership Webinar Series, ‘Thought Leadership Journeys’ an initiative that signifies another important step towards fostering collaboration and share new thinking within the European mobility landscape. We invite esteemed experts to present their valuable insights and learn from other panellists and attendees engaging in open dialogue. Watch the on-demand records of our previous episodes here.

ITS Congresses presented by ERTICO

Every two years, ERTICO organises a European Congress and, every third year, a World Congress in the European, Middle East and African (EMEA) region. These unique events are planned and delivered in association with the host city, as well as ITS America and ITS Asia-Pacific organisations.



In 2023, ITS made significant strides in advancing the mobility agenda, with our events playing central role. Open dialogue, knowledge sharing, and lessons learned across the ITS community contribute to addressing emerging challenges and fostering the development of innovative new technologies, solutions and services. ERTICO's ITS Congresses supports these efforts by bringing together stakeholders, industry influencers, and the wider mobility ecosystem.



29th ITS World Congress Suzhou, China

The 29th ITS World Congress took place in Suzhou, China from 16-20 October 2023 and explored the theme 'Driving Towards Intelligent Society – Quality of Life'. The host, ITS Asia-Pacific, was supported by the other two regions, ERTICO – ITS Europe and ITS America, created a high value event for the global community. Second only to the host region, EMEA contributed six Special Interest Sessions and 27 papers to the technical programme.

Our Partners - Continental, Denso, UK Department for Transport, City of Hamburg, Ohmio, PTV Group, SAE, T-Systems, and Transport for West Midlands (UK) - took part in the High-Level Executive Sessions. At the prestigious Hall of Fame ceremony, ERTICO Partner T-Systems International (Deutsche Telekom AG) was honoured with an award for being a role model and pioneer in developing standards relating to new CCAM technologies.

In the closing ceremony, ERTICO's Chairman, Dr Amditis, received the Official World Globe of the ITS World Congress to host the next ITS event, which takes place in Dubai from 16-20 September 2024.

30th ITS World Congress Dubai, UAE

The 30th ITS World Congress, from 16-20 September 2024. As the first ITS World Congress presented by ERTICO in UAE, this event exemplifies our commitment to steering the future of intelligent and sustainable mobility on a global scale under the banner 'Mobility Driven by ITS'.

With more than 40 successful ITS Congresses under our belt, we are dedicated to shaping ITS on a global scale. This year, we expect to attract 20,000 participants, offering an unparalleled opportunity for Partners and stakeholders to engage directly with each other. The deep expertise of Dubai's Road and Transport Authority (RTA) in transportation planning and smart technology, coupled with its proactive approach to innovation, provides a vibrant backdrop for the event. This commitment to ITS along with its strategic geographic position at the nexus of Asia, Europe, and Africa establishes the city as a prime location to foster international collaboration and innovation. Dubai's role as a global hub for trade and commerce will further enrich discussions, enabling a dynamic platform for innovation and global partnerships in mobility.

Join us in Dubai to be part of this transformative event that will shape the future of transportation, driven by intelligent mobility solutions that aim for zero accidents, zero delays, and minimal environmental impacts.

16th ITS European Congress Seville, Spain

The 2025 ITS European Congress in Seville represents an important moment for stakeholders from across Europe and beyond to come together and delve into future-oriented solutions for clean, resilient, and smart mobility. Under ERTICO's leadership together with the host city and ITS Spain, this event aligns our joint vision of contributing to significant European initiatives such as the European Green Deal and the Sustainable and Smart Mobility Strategy. This Congress will spotlight how local and regional advancements can reflect broader European ambitions for a more sustainable transportation future.

Seville, with its well-implemented cycling networks and commitment to cleaner transport, is an ideal backdrop, embodying the innovation and spirit of smart mobility. The Congress will leverage the city's achievements to present engaging dialogues and networking opportunities, advancing the agenda of making Europe's mobility landscape more sustainable, efficient and integrated.

ERTICO is excited to collaborate with the host city and ITS Spain to not only showcase the city's progress towards greener and more sustainable transport but to also highlight how these local initiatives are integral to achieving broader European objectives. We invite all our Partners, stakeholders, and the wider public to join us.

Stay up to date with news and announcements with the E-blast which is already received by more than 22,000 subscribers. Sign up <https://itseuropeancongress.com/subscribe/>

Cooperation with EU Institutions and Associations

We are actively engaged with the European Commission and other EU institutions as well as other associations to help resolve challenges and drive policy developments relating to ITS and smart mobility.

Research and Innovation agenda

As a member of the CCAM Partnership, which aims to harmonise European R&I efforts to accelerate the successful uptake of CCAM technologies and services, we contribute to drafting the Strategic Research & Innovation Agenda (SRIA), subsequent Calls under the Horizon Europe Work Programmes, and have a coordinating role of Cluster 7 through the FAME project.

We take a similar approach in the 2Zero Emission partnership: ERTICO represents ITS stakeholders, contributing to SIRA updates and revisions, and including its work programme and preparations in upcoming open calls. In this way, ERTICO plays an active role in accelerating the transition to a carbon-neutral European road transport system by 2050.

ERTICO also actively contributes to the work of the European Road Transport Research Advisory Council

(ERTRAC), which aims to define and implement the strategic research agenda for road transport. We also work with the 6G Smart Networks and Services Industry Association (6G IA), a voice of European industry and research for next-generation networks and services, including the working groups for Pre-Standardization, Trials, SMEs, and Test, Measurement and KPIs Validation. As co-chair of the ALICE Systems & Technologies for Interconnected Logistics thematic group, ERTICO helps to define future research and innovation paths for the future Steering Group, and as potential input for Horizon Europe calls.

European Mobility Agenda

In the last year, ERTICO has worked closely alongside European legislation and policy developments on advancing safety, connectivity, efficiency, and sustainability matters. Significant developments took place, with various input elements and advocacy from us. These include:

- European Green Deal - focusing on zero emission vehicles and sustainable alternative charging solutions, supporting digitalisation and automation.
- European Data Strategy - emphasising the identification of potential data sharing in ITS and the broader mobility ecosystem. This includes the revised ITS directive, new legislation (Data Act, Data Governance Act, Digital Markets Act, Digital Services Act), new cybersecurity measures, the Artificial Intelligence Act, the European Chips Act, and the Chips Joint Undertaking.
- The Sustainable and Smart Mobility Strategy - encompassing 82 initiatives in 10 key areas to make the EU transport system more sustainable, smart and resilient, including the management and deployment of ITS with a focus on CCAM.
- The Digital Decade programme, with a continued focus on developing 5G/6G for applications in the mobility segment and beyond.

In addition, a new way to integrate transport modes for more eco-friendly freight solutions came with a set of proposals aimed at traveller safety, bolstering multimodal travel information services, and establishing a common European mobility data space. In this sphere, new EU-funded projects such as deployEMDS aim at making a significant contribution, alongside data sharing platforms such as DFRS. ERTICO's contribution to NAPCORE and its wider involvement in the European Data Strategy also play a significant role, providing a EU-wide common interoperable data space.

While ITS brings the benefits of new technologies and digitalisation to the transport sector, ERTICO also works to bring a more adequate understanding of its complexities within the EU taxonomy framework. We continue to advocate ITS as an element for screening criteria in the taxonomy regulation, enabling financial investments in ITS to be recognised as contributing to the sustainability agenda. This reflects previous work of the PrepDSpace4Mobility consortium and the Coordination and Support Action (CSA) which concluded last year in collaboration with DG CNECT and DG MOVE. More recently, ERTICO is a trendsetter in the European Digital Infrastructure Consortium (EDIC), brought forward through all the work completed in DATEX, NAPCORE, TN-ITS, FENIX, and other innovative platforms and projects that serve as strong building blocks for this new ecosystem.

Together with the European Commission and Expert Groups

ERTICO also demonstrates thought leadership role through the Commission's Multimodal Passenger Mobility Forum (MPMF), operated by DG MOVE, and our participation in EGUM, the Expert Group on Urban Mobility. We co-lead the EGUM group on urban space and future of urban mobility. ERTICO is also member of the ITS Advisory Group, contributing to the development of work relating to the ITS directive.

As a member of the DTLF Steering Committee, we helped to conceptualise a federated architecture for data sharing - network of platforms for digital

Engaging with the Network of ITS Nationals



Together with the Network of National ITS Associations (ITS Nationals), ERTICO works to improve cohesiveness between European ITS stakeholders, working towards the shared vision of creating a more sustainable and smarter mobility future. We value our collaboration with the 30 National ITS Organisations across Europe. Through membership in the ITS Nationals



transport and logistics. We continue to work with DG MOVE and RWS to support the coordination of corridor freight information systems and electronic Freight Transport Information groups.

At the end of 2023, the Transport & Logistics Industry awarded ERTICO the 2023 Innovation Award for Data Sharing and Data Transformation. This recognised the significant developments and breakthroughs in data sharing solutions enabled through the EU-funded projects FENIX, 5G-LOGINNOV and BOOSTLOG.

Coordination Committee, represented by our CEO Joost Vantomme, we aim to bring closer cooperation between stakeholders, presenting new opportunities for ITS Nationals' involvement in our activities, such as inviting ITS Nationals' Vice Chair to participate in the ERTICO Strategy Committee and guest at the ERTICO Supervisory Board.

Global Cooperation & Strategic Partnership



ERTICO unites stakeholders from all corners of the world, serving as a catalyst for dialogue and knowledge exchange. We engage in open dialogues with individuals and institutions. These range from large-scale exhibitions to thematic plenaries with subject matter experts, and including events such as the Urban Mobility Days, Smart City World EXPO, Intertraffic, Amsterdam Drone Week, TRA in Dublin, TRB in Washington, RTR Days, Connecting Europe days, the International Transport Forum, ITS Summit in Turkey, International Road Federation World Conference, and many other speaking slots and moderator roles. We also work more closely with colleagues in the partner regions of ITS America, ITS Asia-Pacific and the wider research, academic and industry community.

Following the signing of Memorandum of Understandings (MoUs) with the International Road Federation Geneva (IRF), the Traveller Information Services Association (TISA) and the Institute of Electrical and Electronics Engineers (IEEE), and

a Memorandum of Intent with the European Space Agency (ESA), we continue to strengthen cooperation, advocating for innovation and systemic change.

Exploring new avenues for cross-border collaboration, we signed a strategic bilateral partnership with ITS Korea to strengthen the uptake and benefits of ITS across both our regions, bridging the knowledge gap and increasing the scope of research, planning, promotion and deployment. We also agreed an engagement plan with the Transport Technology Forum (TTF) to continue knowledge sharing in areas of mutual interest and need.

Looking ahead, ERTICO is poised to strengthen our collaborative efforts with EU institutions and a broader network, with a strategic focus on enhancing our global outreach and fostering deeper partnerships and knowledge exchange to champion innovation and systemic change in the transport sector.

Looking at the Strategic Future

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ERTICO is committed to forging a visionary path for intelligent transport systems. Our focus in the years ahead is to not only build on our many achievements to date but also seize new and emerging opportunities. Our forward-looking agenda aligns seamlessly with our work on a new vision towards 20250, as we aspire to establish safer, smarter and more sustainable transportation networks across Europe and beyond.

The coming period will be particularly significant for our future direction as we lay the groundwork for a new strategic pathway. We are set to redefine our action plans, aligning closely with evolving EU legislations and global mobility trends.

As part of this, we will continue sharpening our work in the three new focus areas: Connected, Cooperative, and Automated Mobility (CCAM), Green and Urban -Mobility, and Transport & Logistics. This will anchor our renewed strategic direction and

reflect our unwavering commitment to delivering transformative mobility solutions for all.

As we develop our strategies, we will continue to foster new mutually beneficial partnerships and enhance our thought leadership role through collaboration with new players in the field. Together with our Partners and other stakeholders, we look forward to this journey, embracing both the challenges and opportunities that it brings, as we realise our vision of transforming mobility for everyone.

> Chapter

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ERTICO Innovation for
tomorrow's journey.

