TRA

TRANSPORT RESEARCH ARENA

DUBLIN 2024

10th CONFERENCE • 15-18 April

Transport Transitions: Advancing Sustainable and Inclusive Mobility

Co-organised by:

An Roinn Iompair
Department of Transport

European Commission

TRA
TRANSPORT RESEARCH ARENA
DUBLIN 2024
10th CONFERENCE • 15-18 April

Co-organised by:

An Roinn Iompair
Department of Transport

European Commission

Supported by:

Bonneagar Iompair Éireann
Transport Infrastructure Ireland

UCD DUBLIN

Enterprise Ireland

IDA Ireland

CONFERENCE PARTNERS INTERNATIONAL

Together with key TRA Stakeholders:

ACARE

alice Alliance for Logistics Innovation through Collaboration in Europe

CEDR Conférence Européenne des Directeurs des Routes
Conference of European Directors of Roads

ECTP INNOVATIVE BUILT ENVIRONMENT

ERRAC The European Railway Research Advisory Council

ERTRAC

ETRA European Transport Research Alliance

WATERBORNE

Contents

TRA President Welcome	5
Ministerial Welcome	6
TRA EU Commissioners Welcome	7
TRA Committee Welcome	8
TRA Director Welcome	9
Venue Overview	10
General Information	12
TRA App	15
Social Events	15
Sponsors	18
Exhibition Hall	25
A-Z List of Exhibiting Partners	26
Exhibiting Partners: Numerically	27
Google Innovation & Incubation Zone	28
Outdoor Demonstrations	29
TRA2024 Key Roles	33
Management Committee	35
Organising Committee	36
Programme Committee	37
Conference Structure	38
Opening Ceremony	40
Plenary & Round Tables	41
Strategic Sessions	47
Special Sessions	55
Schools Outreach Session	73
Industry Sessions	75
European Commission Lunchtime Sessions	78
Programme	80
Poster Sessions	113
Closing Ceremony	131
Technical Tours	132
Side Events	135
TRA2024 Partners	138
TRA2024 Exhibiting Partners	139

TRAVISIONS

TWO CONTESTS FOR TRANSPORT RESEARCH AWARDS

Scan the QR Code & learn more

Visit the website: **traconference.eu**

TRA President Welcome

Minister for Transport
Eamon Ryan
TRA2024 President

Transportation is the lifeblood of any thriving society. It transcends geographical boundaries, connecting people, goods, ideas, and cultures. Our global community faces unprecedented challenges from the increasing demand for efficient, equitable, safe, and sustainable transportation and mobility solutions, to the urgency in addressing climate change.

Now, more than ever, the role of research in transportation is pivotal. It is through the collaborative efforts of academics, industry experts and policymakers that we can envision and implement transformative strategies that will define the future of transportation.

TRA2024 is not merely a gathering of individuals; it is a platform to exchange knowledge, forge partnerships, and cultivate solutions. The research presented at TRA has the potential to reshape the future transportation landscape. It will serve as a catalyst, influencing policy decisions, supporting economic growth, shaping social development and showcasing technological advancements.

I extend my heartfelt gratitude to all the organisers, speakers and participants who have contributed to making this event possible. Your dedication to advancing the frontiers of transport research is commendable. As President of TRA2024, it is my hope that the outcomes will lead to positive and transformational change. I encourage you to actively participate in thoughtful discussions and challenge conventional wisdom. Let's take this opportunity to shape the future of mobility, sustainability and accessibility for generations to come.

I look forward to seeing you at Transport Research Arena Dublin in April 2024.

Eamon Ryan – Minister for Transport Ireland, TRA2024 President

Ministerial Welcome

Minister for Transport
Eamon Ryan
TRA2024 President

Minister of State for Transport
Jack Chambers
TRA2024 Vice President

Transport connects people and places across Europe and the wider world. Here in Ireland our Departmental mission is to deliver an accessible, efficient, safe and sustainable transport system that supports communities, households and businesses. In order to deliver that system we need to tap into the best research available and that is why we are delighted to welcome the Transport Research Arena (TRA) to Ireland in April 2024. The research presented at TRA2024 has the potential to reshape the future of transport. It can serve as a catalyst, influencing policy decisions, supporting economic growth, shaping social development and showcasing technological advancements. TRA2024 will bring experts from around the world to Ireland to discuss the newest innovations and the future of transport and mobility. Through the development of innovative solutions, we will be aiming for more efficient, safer, carbon-free, accessible, and sustainable transport across all modes.

As the President and Vice-President of TRA2024 we look forward to an interesting and stimulating four days of discussions. We'd encourage all participants to take this opportunity to help shape the future of transport for generations to come. Welcome to Dublin!

Eamon Ryan – Minister for Transport Ireland, TRA2024 President

Jack Chambers – Minister of State for Transport, TRA2024 Vice-President

TRA EU Commissioners Welcome

Adina Vălean
European Commissioner for Transport

Innovation is driving competitiveness in Europe, transforming our economies, helping to keep us healthy and identifying solutions to the major societal challenges of our time. Innovation is also at the heart of our transition towards a more sustainable, affordable, accessible, safe and just transport system that prioritises the mobility needs of its users. The Transportation Research Arena - TRA2024, in Dublin, will put the challenges, and potential innovative solutions, centre-stage. I am honoured that the European Commission is co-organising TRA2024, together with the Irish Transport Ministry and many other stakeholders.

Adina Vălean - European Commissioner for Transport

Iliana Ivanova
European Commissioner for Innovation, Research, Culture, Education and Youth

Faced with decarbonisation, digitalisation and automation, our transport systems are at the brink of a transformative era. The Transport Research Arena (TRA) conference has been a beacon of innovation, showcasing how the EU, through programmes such as Horizon Europe, is leading the way towards a more connected, efficient, safe and environmentally friendly world. This is why the European Commission is proud to co-organise the TRA2024 event. I look forward to seeing how this year's edition will envision and shape a future of transport that is sustainable and inclusive.

Iliana Ivanova - European Commissioner for Innovation, Research, Culture, Education and Youth

TRA Committee Welcome

John McCarthy
Management Committee Chair

Ciaran McNally
Programme Committee Chair

Celine Crawford
Organising Committee Chair

Beatriz Martinez-Pastor
TRA2024 CSA Coordinator

On behalf of the Management, Programme, Organising and CSA committees, it is our pleasure to extend a warm welcome to all TRA2024 Dublin attendees, distinguished guests, and esteemed researchers.

As members of the committees, we are thrilled to witness and support a four-day discussion that will define the future of transport. Our theme, "Advancing Sustainable and Inclusive Mobility," reflects our commitment to addressing the challenges and opportunities that lie ahead.

This event gathers individuals and organisations in the shared pursuit of knowledge and innovation in the field of transportation and mobility. We aim to foster an environment where ideas flourish, discussions thrive, and connections are forged, solutions emerge, and the seeds of future breakthroughs are planted. TRA2024 will provide a shared opportunity to push the boundaries of what we know and to chart new territories in transport research.

The vast array of presentations, workshops and discussions curated for this conference demonstrates the value and impact of the research being conducted globally. From sustainable urban and rural mobility to cutting-edge technological advancements, we will explore the full spectrum of issues that define the transport landscape across the road, rail, aviation, water and cross-logistics industries.

We encourage you to partake in the debate, absorb the knowledge shared, and actively engage with your peers. The exchange of perspectives, experiences and insights is at the heart of what makes TRA2024 impactful.

Thank you, and we wish you all an inspiring and productive visit to TRA2024 in Dublin.

John McCarthy – Management Committee Chair

Ciaran McNally – Programme Committee Chair

Celine Crawford – Organising Committee Chair

Beatriz Martinez-Pastor – TRA2024 CSA Coordinator

TRA Director Welcome

Albert Daly
TRA2024 Director

Safe, inclusive, sustainable resilient, collaborative

It is with great pleasure and a sense of anticipation that I, as the TRA2024 Director, and my team welcome you all to this gathering of brilliant minds and innovators in the field of transportation.

In collaboration with an exceptional team of dedicated individuals, we have worked tirelessly to bring together a conference that not only highlights the current state of transport research but also propels us into an exciting future of possibilities. Our themes for each day, reflecting our need to be safe, inclusive, sustainable, resilient, collaborative, signify our collective commitment to pushing the boundaries and redefining the trajectory of mobility research. Our distinguished guests, researchers and participants are the heart and soul of this conference.

Our team has meticulously formulated a programme that spans a wide spectrum of topics, from sustainable mobility solutions to cutting-edge technological innovations. We have gathered leaders and experts from around the world to share their insights, experiences and ground-breaking research and innovation. It is our hope that the exchange of ideas throughout the event will not only enrich your understanding but also inspire new avenues of exploration.

Members of all the Committees and the dedicated team behind the scenes have shown a great passion and commitment to TRA2024 and their tireless efforts have been instrumental in bringing this conference to fruition. Together, we have created a platform for intellectual exchange that has the potential to leave a lasting impact on the future of transport and mobility.

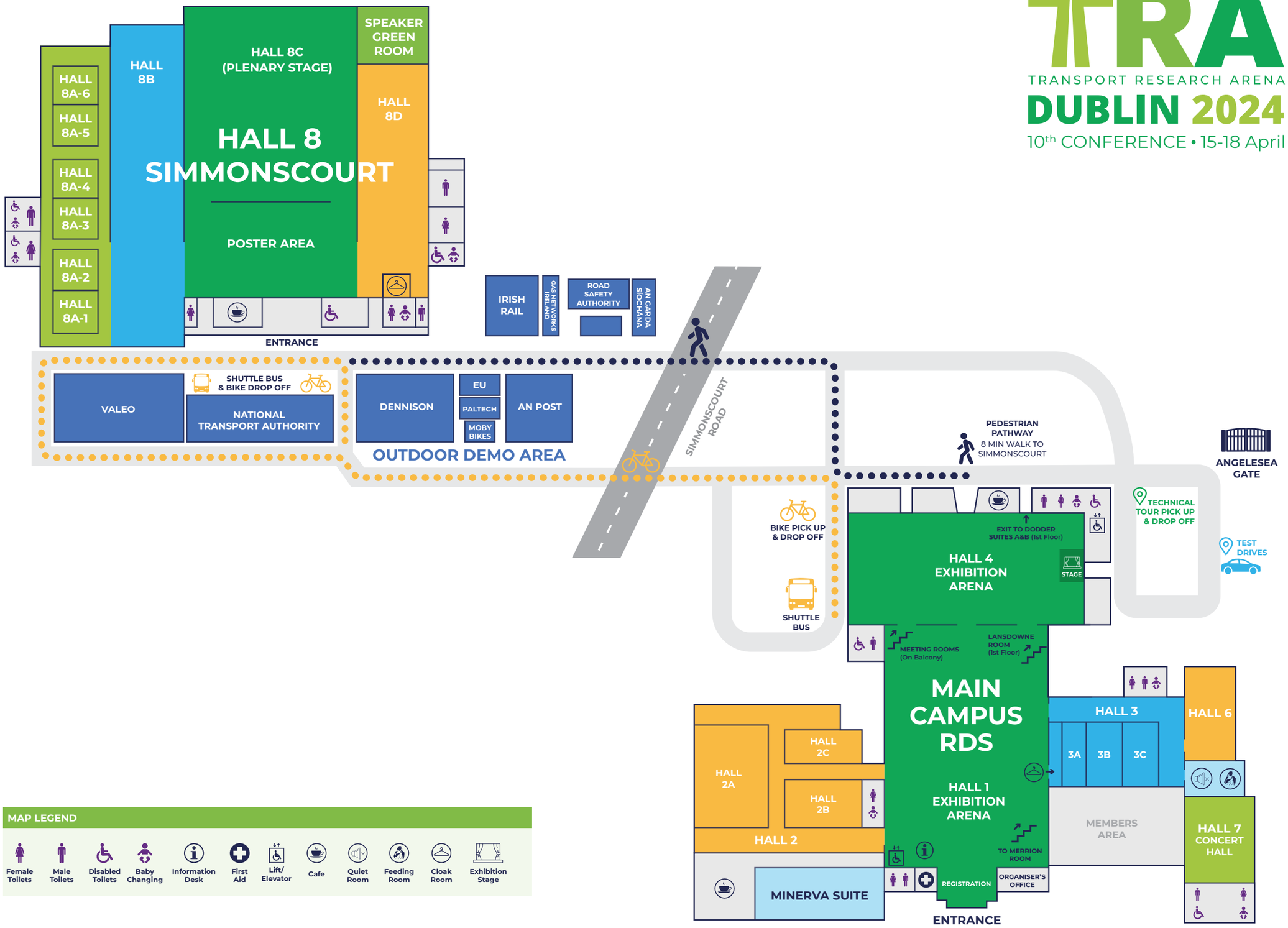
As we navigate through the sessions, workshops and networking opportunities, we hope that this event will stimulate fruitful collaborations that help us transition to a more sustainable and efficient mobility landscape.

Thank you all for being part of this journey, and I wish you a rewarding and enriching experience at the Transport Research Arena 2024.

Dr Albert Daly – TRA2024 Director

Venue Overview

TRA
TRANSPORT RESEARCH ARENA
DUBLIN 2024
10th CONFERENCE • 15-18 April



MAP LEGEND

Female Toilets · Male Toilets · Disabled Toilets · Baby Changing · Information Desk · First Aid · Lift/ Elevator · Cafe · Quiet Room · Feeding Room · Cloak Room · Exhibition Stage

General Information

REGISTRATION
Please ensure you collect your Conference Badge from the registration desks located at the Main Entrance of the RDS. You are required to wear your Conference Badge at all times including the subsequent social programme.

The registration desk will be open at the times below to collect your badge and for any questions.

Sunday 14th April: 15:00 - 18:00

Monday 15th April: 08:00 - 18:00

Tuesday 16th April: 08:00 - 18:00

Wednesday 17th April: 08:00 - 18:00

Thursday 18th April: 08:00 - 16:00

PROGRAMME
Any updates to the programme will be communicated through the app. The most up to date version of the programme can be found online at: https://traconference.eu/tra-2024-programme/

SPEAKER PREVIEW ROOM
A speaker preview room is available for all speakers during the conference. This is a room specifically reserved for speakers to load their presentations.

The speaker preview room is the Lansdowne Room (access will be via the balcony of Hall 1 - Exhibition area).

If you have uploaded your presentation in advance of the conference, you will be able to check it in this room. If you have not used the upload option, then please bring your presentation on a USB Stick/ Flash Drive to the technician who will be in the speaker preview room, who will upload it for you.

Please note: You cannot present directly from a USB or your own laptop in the session room. It must be uploaded well in advance of your scheduled presentation.

If you are bringing your presentation via flash drive, then please do so AS SOON AS POSSIBLE, and no later than 2 hours before your presentation.

The technician will be available during the following times:

Sunday 14th April: 15:00 - 18:00 in the Concert Hall

Monday 15th April: 08:00 - 18:00 in the Lansdowne Room

Tuesday 16th April: 08:00 - 18:00 in the Lansdowne Room

Wednesday 17th April: 08:00 - 18:00 in the Lansdowne Room

Thursday 18th April: 08:00 - 15:00 in the Lansdowne Room

POSTERS
All posters will be displayed in Simmonscourt, right beside the plenary hall and all delegates will have access.

During the allocated poster sessions each poster will be presented with a flash presentation on the poster stages located near the poster area.

SHUTTLE BUS & BIKES
TRA is spread across two main locations, RDS Main Campus and Hall 8, Simmonscourt, with an 8 minute walk in between. Please familiarise yourself with the venue and allocate sufficient time to go between the two areas.

Dublin Bus Shuttle Bus and National Transport Authority Bikes are available if required.

WIFI
WIFI is accessible to everyone, no password needed. Network is RDS Open Wifi.

General Information

PARKING
There is no parking available at the RDS and in light of our sustainability policy we recommend that you use public transport with the Leap Card provided.

LEAP CARDS
We are delighted to be able to offer Dublin Leap Cards to all our delegates who wish to use public transport within the city. You can collect your free card from the information desk located in RDS Hall 1.

There will be a desk in Terminal 1 & 2 at Dublin Airport on Sunday and Monday between 9am and 4pm where you can collect your Leap Card.

Dublin Leap Card is accepted on all major modes of public transportation within the Greater Dublin Area, including:
Dublin Bus: Covering a comprehensive network of routes across the city and suburbs.

Luas: Dublin's light rail tram system, connecting key areas with speed and efficiency.

DART: Dublin Area Rapid Transit, providing coastal journeys from Malahide and Howth to Greystones.

Commuter Rail Services: Including suburban and intercity trains operated by Irish Rail.

Thanks to the National Transport Authority for kindly sponsoring these cards.

ACCESSIBILITY
The RDS is mindful of issues of accessibility at all times and are dedicated to providing support to all visitors.

Please contact us directly if you have any accessibility requirements and we will make every effort to accommodate your request individually.

DIETARY REQUIREMENTS
If you have indicated your dietary requirements during registration, please head to the allocated catering station in the exhibition area to collect your lunch. The station will be clearly marked as a dietary station.

CATERING
Complimentary tea/coffee will be served for the dureation of the conference. Lunch will be served in Hall 1 and Hall 4 only.

SUSTAINABILITY
TRA2024 is a sustainable conference. We recommend all attendees pack a reusable coffee cup and water bottle for their time in Dublin.

CLOAK ROOM
When checking out on Thursday morning, please leave your luggage in your hotel as the cloakroom at the RDS will not have capacity to store it.

CONTACT INFORMATION
Emergency Services:
Call 999 for Ambulance/Police/Fire

FIRST AID
The conference will have professional first aid assistance onsite – see staff at the registration desk for information.

DELEGATE QUERIES
Can be dealt with via the help desk in the Exhibition Arena at the RDS, any other issues please do not hesitate to email: tra2024@conferencepartners.com

We look forward to welcoming you all to Dublin!

Best Regards, on behalf of the TRA2024 Dublin Organising Team.

MORE SUSTAINABLE, CONNECTED FLIGHT

Propulsion innovation, lighter aircraft systems and intelligent routing to support industry Net-Zero goals.

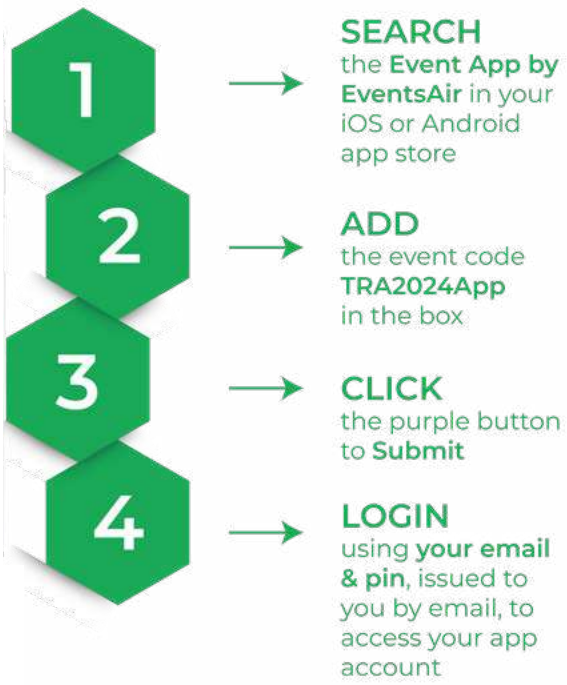
Visit collinsaerospace.com/sustainability

Collins Aerospace
An **RTX** Business

© 2024 Collins Aerospace

TRA App

Don’t miss out on all the latest event updates - download the TRA2024 app.



Social Events

Welcome Reception

An informal Welcome Reception in the RDS Concert Hall is included as part of your TRA2024 registration. There will be entertainment for the duration.

Canapés and tea / coffee will also be provided. This is a perfect opportunity to come along to mix and mingle with other registered delegates.

This event is free to attend once you have pre-registered and collected your delegate pass.

Date:
Sunday 14 April

Time:
3pm – 6pm

Location:
RDS Concert Hall

Social Events

Gala Event

The TRA2024 Gala Event will be in the iconic Guinness Storehouse in Dublin. This is a unique social event where you can eat, relax, stroll through the Guinness exhibition floors, listen to music, dance, and enjoy the number one visitor attraction in Dublin. Guests will also have the opportunity to learn how to pour the perfect pint of Guinness!

Return coach transfers to and from RDS, buffet dinner, drinks, access to the Guinness Storehouse Experience and traditional Irish entertainment are all included in the cost. Be sure not to miss this evening of craic agus ceol (fun and music!).

Tickets for the Gala Event are subject to availability. Please purchase your ticket through the app.
Please Note: This is an over 18's event

Date:
Tuesday 16 April

Doors Open:
19:30

Location:
Guinness Storehouse,
St. James' Gate, Dublin 8

Requirement:
TRA badge will be scanned on arrival

Transfers:

To Guinness Storehouse from RDS (Shuttle):
Pick up Point: Main Entrance of Simmonscourt
Departure Time:
1st Coach: 18:45
Last Coach: 19:30

To Guinness Storehouse from City Centre (Non-shuttle):
(Limited capacity – 98 spaces only)
Pick up Point: Nassau Street (across the road from Kilkenny Design Shop)
Departure Time:
1st Coach: 19:00
2nd Coach: 19:15

Return from Guinness Storehouse to RDS (Shuttle):
1st Coach 21:30
Last Coach: 23:00
Drop Off: Merrion Street Bus Stop (across the Road from Main Entrance of RDS)

Return from Guinness Storehouse to City Centre (non Shuttle):
1st Coach: 22:30
2nd Coach: 23:00
Drop Off: Nassau Street (across the road from Kilkenny Design)

Social Events

Hooley Night at Johnnie Fox's Pub

Situated on top of the Dublin mountains, Johnnie Fox's is one of Ireland's oldest and most famous traditional Irish pubs – and they are also famed as the highest pub in the country.

The Irish Hooley night in Johnnie Fox's is the best way to experience all things Irish – food, drink, entertainment & the people. The moment the stage rises, and the music fills the room, you can feel the magic in the air. As the show goes on, the energy in the room builds, you find yourself being transported to a different world. The atmosphere is electric, you cannot help but be swept up in the excitement of it all. Every moment is a feast for the senses, from the dazzling costumes to the fast beat choreography.

By the time the show ends and the performers take their final bow, you will be left feeling exhilarated and amazed.

Return transfer from RDS Merrion Road to Johnnie Fox's, 3-course dinner and Hooley Show are all included in the cost. Please meet a member of staff at Merrion Road Bus Stop outside RDS at 18:20 for a prompt departure to Johnnie Fox's. The bus will return to this location at the end of the night. You only need to bring yourself and a camera to capture the magic!

Be sure not to miss this evening of craic agus ceol (fun and music!).

Date:
Wednesday 17 April

Meeting Point:
Merrion Road Bus Stop outside RDS at 18:20

Time:
Coach departing at 18:30

Cost:
€98.00 incl VAT per person

Sponsors

Diamond Partners

Collins Aerospace

Collins Aerospace, an RTX business, is a leader in technologically advanced and intelligent solutions for the global aerospace and defense industry. Collins Aerospace has the extensive capabilities, comprehensive portfolio and broad expertise to solve customers' toughest challenges and to meet the demands of a rapidly evolving global market.

Web: CollinsAerospace.com

National Transport Authority, Ireland

NTA is responsible for developing and implementing strategies to provide high quality, accessible, sustainable transport across Ireland. NTA has a statutory function to implement a transport strategy for the Greater Dublin Area, and also leads the development of transport strategies in Cork, Galway, Limerick, and Waterford. NTA plans, procures and oversees Public Service Obligation (PSO) public transport, ensuring that vital bus and rail services are available to communities across the country under the Transport for Ireland brand. NTA is the licensing authority for the commercial bus sector and Small Public Service Vehicles (SPSVs). NTA works with local authorities throughout Ireland to deliver active travel infrastructure that facilitates cycling, walking and wheelchair use. NTA delivers the technologies and services that provide integrated information and methods of payment for public transport services. NTA is a statutory non-commercial body, which operates under the aegis of the Department of Transport.

Web: www.nationaltransport.ie

Valeo

As a technology company and partner to all automakers and new mobility players, Valeo is innovating to make mobility cleaner, safer and smarter. Valeo enjoys technological and industrial leadership in electrification, driving assistance systems, reinvention of the interior experience and lighting everywhere. These four areas, vital to the transformation of mobility, are the Group's growth drivers. Valeo in figures: 22 billion euros in sales in 2023 | 112,700 employees at December 31, 2023 | 29 countries, 175 plants, 19 research centers, 47 development centers, 20 distribution platforms. Valeo is listed on the Paris Stock Exchange.

Web: www.valeo.com

Sponsors

Platinum Partner

Innovate UK
Innovate UK is the UK's national innovation agency. They support business-led innovation in all sectors, technologies and UK regions. We help businesses grow through the development and commercialisation of new products, processes, and services, supported by an outstanding innovation ecosystem that is agile, inclusive, and easy to navigate.

Web: www.ukri.org/councils/innovate-uk

Gold Partners

BEPA
The Batteries European Partnership Association (BEPA) gathers the European battery community willing to contribute to the ambitious upcoming Research & Innovation Batteries Partnership under Horizon Europe. The main activity of BEPA is to provide input and advice to the European Commission in order to contribute to the identification of priorities of research and innovation activities and the definition of call topics to be included in the Horizon Europe Work Programmes.

Web: bepassociation.eu

BMW Group
With its brands BMW, MINI, Rolls-Royce and Motorrad, the BMW Group is the world's leading premium manufacturer of automobiles and provides premium financial mobility services. The company has a global sales network in over 140 countries. Success has been based on long-term thinking and responsible action, the Company consistently makes sustainability and circular principles central to its strategic direction, from the supply chain through production to the end of the use phase of all products.

Web: www.bmwgroup.com

Sponsors

Enterprise Ireland
Enterprise Ireland is the Irish government's enterprise development agency. They invest in and support the development of Irish-owned companies on their journey to achieving greater scale and to become global leaders in their field. This provides a platform for strong economic growth, and creating and sustaining jobs in communities around the country. Enterprise Ireland's teams in Ireland and across our network of 39 international offices help Irish companies to develop high-growth strategies and to enter new markets with innovative and sustainable solutions.

Web: www.enterprise-ireland.com/en/

IDA Ireland
As the national investment development agency for Ireland, the IDA partner with companies worldwide to provide financial assistance, on-the-ground support and advice to help them establish and transform their operations in Ireland. The IDA's dedicated team supports multinational companies to realise investment opportunities through market insights and business environment analysis. Working across the knowledge economy, our tailor-made support offers instant access to the very latest information on talent acquisition, regulation, sustainability, incentives and turnkey property opportunities.

Web: www.idaireland.com

Silver Partners

ABB
ABB is a technology leader in electrification and automation, enabling a more sustainable and resource-efficient future. The company's solutions connect engineering know-how and software to optimize how things are manufactured, moved, powered and operated. Building on over 140 years of excellence, ABB's more than 105,000 employees are committed to driving innovations that accelerate industrial transformation

Web: www.abb.com

Sponsors

ARRB Systems
ARRB Systems is a world leading manufacturer and operator of road survey equipment, providing a solution to meet varied data collection needs. They offer a wide range of road asset management services ranging from the intelligent Pavement Assessment Vehicle (iPAVe) to the cost-effective Roughometer 4.

Web: arrbsystems.com

ARUP
Dedicated to sustainable development, Arup is a collective of designers, consultants and experts working globally. Founded to be humane and excellent, Arup collaborate with their clients and partners using imagination, technology, and rigour to shape a better world.

Web: www.arup.com

Bus Éireann
Bus Éireann is Ireland's national bus company, operating the city services of Cork, Galway, Limerick and Waterford, town services in Athlone, Balbriggan, Drogheda, Dundalk, Navan, Carlow and Sligo, as well as county and regional services, all under contract to the National Transport Authority. Bus Éireann operates the school transport scheme on behalf of the Department of Education, the largest such scheme in the European Union, and Expressway, the largest commercial inter-regional coach service in the country with 14 routes.

Web: www.buseireann.ie

Gas Networks Ireland
Gas Networks Ireland operates Ireland's €2.7bn, 14,664km national gas network, which is considered one of the most modern renewables-ready gas networks in the world. Compressed Natural Gas (CNG) and renewable bioCNG, delivered through Ireland's gas network, will drive sustainable supply chains and be the first step towards net-zero commercial transport. By working to replace natural gas with renewable gases, such as biomethane and green hydrogen, Gas Networks Ireland will support Ireland's transport sector's journey to a cleaner energy future.

Web: www.gasnetworks.ie

Sponsors

Iarnród Éireann Irish Rail
Iarnród Éireann - Irish Rail is the publicly owned rail transport company of Ireland, with the role of providing rail infrastructure and services within the State of Ireland. The rail services consist of long-distance Intercity routes and Commuter and DART services which are primarily in the Greater Dublin Area. Irish Rail also operate freight services and manage Rosslare Europort.

Web: www.irishrail.ie/en-ie/about-us/iarnrod-eireann-projects-and-investments

Westermo Ireland
Westermo delivers reliable industrial data communication solutions that address the markets for infrastructure like transportation, energy, and water supply, plus an array of industrial sectors. Westermo is focused on robustness, high-quality and in-depth knowledge of customer needs and is one of the leading global players in the train segment. Westermo has R&D, and Manufacturing Centres in Västerås, Sweden, Dublin Ireland, as well as Germany and Switzerland and direct sales and technical support across Europe.

Web: www.westermo.com

Bronze Partners

Aer Lingus

Web: www.aerlingus.com

Sponsors

AVL List Gmbh
AVL is one of the world's leading mobility technology companies for development, simulation and testing in the automotive industry, and beyond. From ideation phase to serial production, the company covers vehicle architectures and platform solutions including the impact of new propulsion systems and energy carriers. As a global technology provider, AVL's offerings range from simulation, virtualization and test automation for product development to ADAS/AD and vehicle software. The company combines state-of-the-art and highly scalable IT, software and technology solutions with its application know-how, thereby offering customers extensive tools in areas such as Big Data, Artificial Intelligence, Cybersecurity or Embedded Systems.

Web: www.avl.com/en

Dublin Bus
Dublin Bus has been at the heart of daily life in Dublin for 37 years serving communities as Ireland's largest public transport service provider. Its 1,050 buses carried 145 million customers last year. It currently operates 121 routes including Nitelink services and ten 24-hour services. Dublin Bus currently employs over 4,000 people including over 3,000 bus drivers, representing 85 different countries.

Web: www.dublinbus.ie

Dublin City Council

Dublin is an international capital city and is the economic engine of the region and state. Dublin City Council seeks to enhance the city's attraction as a place in which to invest, to work, to live and to visit. Dublin City Council takes the lead role in shaping the strategic vision of the city. It provides a diverse, multi-layered and evolving range of services to both citizens and visitors to Dublin, which includes the provision of housing, planning, development, environmental, roads and traffic, leisure and community services. For further information on Dublin City Council please log onto www.dublincity.ie

Web: www.dublincity.ie

Sponsors

PNO Consultants
PNO Group is European leader in grants consultancy and innovation management, specializing in the advancement of sustainable innovation. Within the transport and mobility sector, PNO Group leverages a deep understanding of market dynamics, technology trends, and societal needs. They guide both public and private organizations in developing future-focused transport solutions that prioritize efficiency, accessibility, and environmental responsibility. Their team of experts provides strategic advice, project management, and funding acquisition support to accelerate transformative transport projects.

Web: www.pnoconsultants.com

Sustainable Energy Authority of Ireland
SEAI is Ireland's national sustainable energy authority. We work with householders, businesses, communities and government to create a cleaner energy future. We drive the reduction and replacement of fossil fuel usage. Sustainable energy improves people's lives, brings comfort and convenience, and addresses environmental challenges. It is beneficial to our economy, creating and protecting jobs. Our role is to help Irish society to be more energy efficient and we support the development of clean energy technologies.

Web: www.seai.ie

Innovation and Incubation Zone Sponsor

Google

Web: www.google.com

Poster Area Sponsor

Amazon

Web: www.amazon.co.uk

Exhibition Map

RDS Main Campus

A-Z of Exhibiting Partners

4	ABB
12.2	ADVANTAGE AUSTRIA
78	AirNav Ireland
12	ALICE
19	ARRB Systems
61	Arup
62	Asset International Structures Ltd
6.8	AVL
74	Avtrain
12.3	A-Techsyn
23.3	Baltic Road Association
17	BEPA
77	Beta
6	BMW Group
12.1	Bundesministerium für Digitales und Verkehr
87	Bus Éireann
74	Cameramatics
20	CCAM Partnership
59	CILT Mobility And Supply Chain Skillnet
14	Clean Aviation Joint Undertaking
14	Clean Hydrogen Partnership
1	Collins Aerospace
65	Daktronics
47	Deighton Associates Ltd.
15	Dennison Trailers
71	Department of Transport
31	Dublin Bus
81	Dublin City Council
22	EARPA
58	Easyfix
43	ECI European Copper Institute
6.1	ECTRI
69	Egis
20.2	Egviafor2zero
63	Elsevier B.V.
74	Enterprise Ireland
23.1	ERTICO
20.1	ERTRAC
3	ESB Innovation Roi Ltd
6.2	Eurnex
14	Europe's Rail Joint Undertaking
13	European Commission
25	Eutema Research Service Gmbh
43	Ewf
77	Exida
10	EY Ireland
6.3	FEHRL
26	FEV
43	Fraunhofer Institute For Machine Tools and Forming Technology
50	FTA Ireland
23.2	Fugro
77	Future Mobility Campus Ireland
8	Gas Networks Ireland
6.4	Geotab UK Ltd
24	German Aerospace Center (DLR)
11	Google
64	GREENET
66	Greenwood Engineering
77	Hummingbird Aero
68	Iarnród Éireann Irish Rail
73	IDA Ireland
41	IEEE
29	IFP Energies nouvelles
43	IKERLAN S.COOP
75	Irish Maritime Development Office
102	Irish Transport Research Network
67	ITS Ireland
9	ITS Norway
77	Jaguar Land Rover
53	Klas
5	KPMG Ireland
79	Lagan Operations & Maintenance Ltd
77	Lero
51	Logistics Associate Apprenticeship
74	Manna Drone Delivery
28	Measure
77	Mergon
2.2	Moby Bikes
70	National Transport Authority
9	Netcompany-Intrasoft (on behalf of the FRONTIER H202 project and the 4FRONT cluster)
74	Plasmabound
18	PNO Group
9	POLIS
74	Provizio
84	Road Management Office
57	Scire - Reflective Project
14	SESAR 3 Joint Undertaking
21.1	Springer Nature
82	Sustainable Energy Authority of Ireland
40	Swiss Booth
55	SYSTRA Ltd
16	TRA2026 Budapest
72	Transport Infrastructure Ireland
45	Troia d.o.o.
9	TU Delft - MICD
23	UITP - Advancing Public Transport
7	UKRI
30	UNIFE - The European Rail Supply Industry Association
44	University of Limerick (CRIS)
42	University of Minho
56	Vaisala Ltd
2	Valeo Vision Systems
74	Ventac
86	ViaPlus
52	Vivacity
6.6	VTI, Swedish National Road and Transport Research Institute
6.7	Waterborne Technology Platform
60	Weev Charging Limited
2.1	Westermo Ireland Ltd

Google Innovation & Incubation Zone Exhibitors

I&I 8	AECOM
I&I 12	Elogic
I&I 10	Polymer Alloy Technology T/A Paltech
I&I 3	The Discovery Programme
I&I 1	Transitool
I&I 5	Tuku University of Applied Sciences
I&I 18	Ubiwhere
I&I 11	University of Galway
I&I 6	University of Limerick

Exhibiting Partners: Numerically

1	Collins Aerospace
2	Valeo Vision Systems
2.1	Westermo Ireland Ltd
2.2	Moby Bikes
3	ESB Innovation Roi Ltd
4	ABB
5	KPMG Ireland
6	BMW Group
6.1	ECTRI
6.2	Eurnex
6.3	FEHRL
6.4	Geotab UK Ltd
6.6	VTI, Swedish National Road and Transport Research Institute
6.7	Waterborne Technology Platform
6.8	AVL
7	UKRI
8	Gas Networks Ireland
9	Netcompany-Intrasoft (on behalf of the FRONTIER H202 project and the 4FRONT cluster)
9	POLIS
9	TU Delft - MICD
9.1	ITS Norway
10	EY Ireland
11	Google
12	ALICE
12.1	Bundesministerium für Digitales und Verkehr
12.2	ADVANTAGE AUSTRIA
12.3	A-Techsyn
13	European Commission
14	Clean Aviation Joint Undertaking
14	Clean Hydrogen Partnership
14	Europe's Rail Joint Undertaking
14	SESAR 3 Joint Undertaking
15	Dennison Trailers
16	TRA2026 Budapest
17	BEPA
18	PNO Group
19	ARRB Systems
20	CCAM Partnership
20.1	ERTRAC
20.2	Egviafor2zero
21.1	Springer Nature
22	EARPA
23	UITP - Advancing Public Transport
23.1	ERTICO
23.2	Fugro
23.3	Baltic Road Association
24	German Aerospace Center (DLR)
25	Eutema Research Service Gmbh
26	FEV
28	Measure
29	IFP Energies nouvelles
30	UNIFE - The European Rail Supply Industry Association
31	Dublin Bus
40	Swiss Booth
41	IEEE
42	University of Minho
43	ECI European Copper Institute
43	Ewf
43	Fraunhofer Institute For Machine Tools and Forming Technology
43	IKERLAN S.COOP
44	University of Limerick (CRIS)
45	Troia d.o.o.
47	Deighton Associates Ltd.
50	FTA Ireland
51	Logistics Associate Apprenticeship
52	Vivacity
53	Klas
55	SYSTRA Ltd
56	Vaisala Ltd
57	Scire - Reflective Project
58	Easyfix
59	CILT Mobility And Supply Chain Skillnet
60	Weev Charging Limited
61	Arup
62	Asset International Structures Ltd
63	Elsevier B.V.
64	GREENET
65	Daktronics
66	Greenwood Engineering
67	ITS Ireland
68	Iarnród Éireann Irish Rail
69	Egis
70	National Transport Authority
71	Department of Transport
72	Transport Infrastructure Ireland
73	IDA Ireland
74	Avtrain
74	Cameramatics
74	Enterprise Ireland
74	Manna Drone Delivery
74	Plasmabound
74	Provizio
74	Ventac
75	Irish Maritime Development Office
77	Beta
77	Exida
77	Future Mobility Campus Ireland
77	Hummingbird Aero
77	Jaguar Land Rover
77	Lero
77	Mergon
78	AirNav Ireland
79	Lagan Operations & Maintenance Ltd
81	Dublin City Council
82	Sustainable Energy Authority of Ireland
84	Road Management Office
86	ViaPlus
87	Bus Éireann
102	Irish Transport Research Network

Google Innovation & Incubation Zone Exhibitors	
I&I 1	Transitool
I&I 3	The Discovery Programme
I&I 5	Tuku University of Applied Sciences
I&I 6	University of Limerick
I&I 8	AECOM
I&I 10	Polymer Alloy Technology T/A Paltech
I&I 11	University of Galway
I&I 12	Elogic
I&I 18	Ubiwhere

Google Innovation & Incubation Zone

Innovation & Incubation Zone List of Exhibitors

Transitool	I&I 1
The Discovery Programme	I&I 3
Tuku University Of Applied Sciences	I&I 5
University of Limerick	I&I 6
AECOM	I&I 8
Polymer Alloy Technology T/A Paltech	I&I 10
University of Galway	I&I 11
Elogic	I&I 12
Ubiwhere	I&I 18

Google Industry Sessions

Time	Title	Location
Monday 15th April 2024		
13:00 - 13:45	**Google** Discussions about how major platforms, startups, and researchers can work together to enable better tools for efficient, clean, and safe mobility	Google Innovation & Incubation Zone
Tuesday 16th April		
13:45 - 14:15	**Google** Discussions about how major platforms, startups, and researchers can work together to enable better tools for efficient, clean, and safe mobility	Google Innovation & Incubation Zone
Wednesday 17th April		
3:30 - 14:15	**Google** Discussions about how major platforms, startups, and researchers can work together to enable better tools for efficient, clean, and safe mobility	Google Innovation & Incubation Zone
Thursday 18th April		
13:00 - 14:00	**Google** Discussions about how major platforms, startups, and researchers can work together to enable better tools for efficient, clean, and safe mobility	Google Innovation & Incubation Zone

Sponsored by:

Outdoor Demonstrations

As part of the TRA2024 programme, we are delighted to announce that we have some interesting outdoor demonstrations that will take place throughout the week.

Iarnród Éireann Irish Rail
Track Recording Vehicle and Linmag's Rail Milling Machine. Bee Hives and Bug Boxes

Gas Network Ireland
BioCNG grab-truck

An Post
The outdoor arena will consist of 6 vehicles parked in the area, there will also be a couple of e-trikes that people can test drive in a circuit in the centre.

Outdoor Demonstrations

European Commission - TricyLift developed by FLEX: An urban e-cargo trike

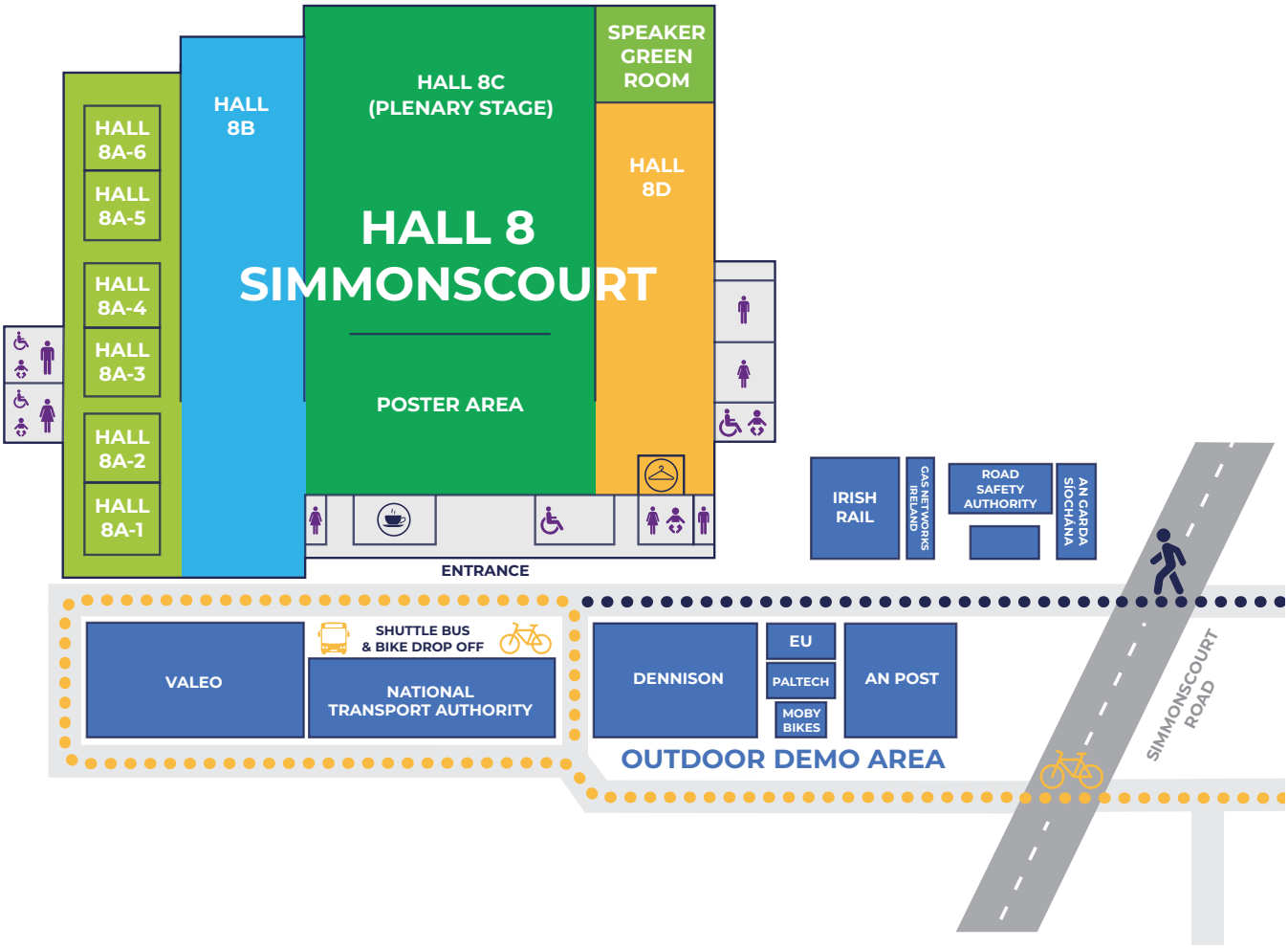
The TricyLift can easily lift and carry up to 200kg thanks to its patented lift&go lever mechanism. It is the ideal agile and low maintenance vehicle, allowing efficient delivery of all types of goods in city centres. It's the first bike with a seat and integrated lifting mechanism, designed specifically for urban logistics. When not in use, the TricyLift can be divided into two parts for a compact storage.

Road Safety Authority Interactive Unit

National Transport Authority

An Garda Síochána

Outdoor Demonstrations

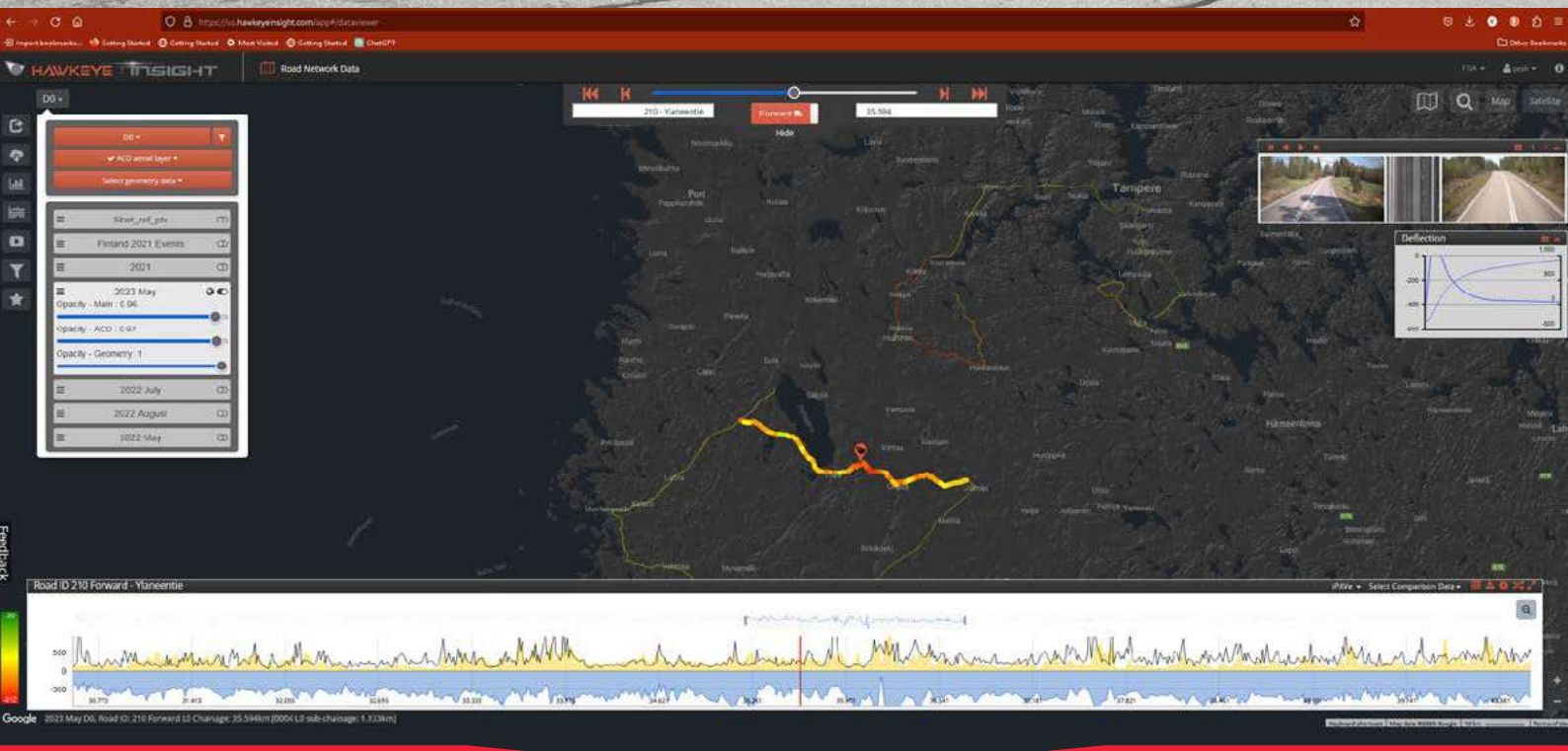


Outdoor Demonstrations List of Exhibitors

An Garda Síochána
An Post
Dennison
European Commission
Gas Networks Ireland
Irish Rail
Moby Bikes
National Transport Authority
Paltech
Road Safety Authority
Valeo

arrb SYSTEMS

PAVEMENT MANAGEMENT INTELLIGENCE



The World's Smartest Data Management System

To find out more, visit our booth No.19

arrbsystems.com

TRA2024 Key Roles

Minister for Transport
Eamon Ryan
TRA2024 President

Minister of State for Transport
Jack Chambers
TRA2024 Vice President

Adina Vălean
European Commissioner
for Transport

Iliana Ivanova
European Commissioner for
Innovation, Research, Culture,
Education and Youth

John McCarthy
Management
Committee
Chair

Albert Daly
TRA2024 Director

Ciaran McNally
Programme
Committee
Chair

Celine Crawford
Organising
Committee
Chair

Richella Mulvihill
TRA2024 Associate
Director

Bob Flynn
European Liaison

Colm O'Grady
TRA2024
Commercial
Director

Beatriz
Martinez-Pastor
TRA2024
CSA Coordinator

Jennifer Sherry
TRA2024
Coordinator

Nicky Mc Grane
CEO Conference
Partners
International

TRA2024 Key Roles

TRA Ambassadors

Michael Ahern

Ivor Heavey

Robert Kelly

Conall Mac Aongusa

Jennie Martin

Ita Lynn

Management Committee

John McCarthy
TRA2024 Management Committee Chair
Department of Transport Ireland

Albert Daly
TRA2024 Management Committee Vice-Chair
Transport Infrastructure Ireland

Ciaran McNally
TRA2024 Programme Committee Chair
University College Dublin

Celine Crawford
TRA2024 Programme Committee Chair
ARUP Ireland

Richella Mulvihill
TRA2024 Associate Director
Transport Infrastructure Ireland

Jennifer Sherry
TRA2024 Recording Secretariat
Transport Infrastructure Ireland

Beatriz Martinez-Pastor
TRA2024 CSA Coordinator
University College Dublin

Esther Madden
CSA Representative
Transport Infrastructure Ireland

Bob Flynn
European Liaison
Enterprise Ireland

Nicky Mc Grane
CEO Conference Partners International

Uwe Moeller
ACARE

Tim Buiting
ACARE

Joris Melkert
ACARE

Fernando Liesa
ALICE

Mafalda Dourado
ANI Portugal

Cristiana Leandro
ANI Portugal

Domokos Esztergár-Kiss
Budapest University of Technology and Economics

Steve Phillips
CEDR

Jenne van der Velde
CEDR

Miguel Segarra
ECTP

Clemente Fuggini
ECTP

Giorgio Travaini
ERRAC

Nicolas Furio
ERRAC

Stephan Neugebauer
ERTRAC

Jean-luc di Paola-Galloni
ERTRAC

Horst Pfluegl
ERTRAC

Xavier Aertsens
ERTRAC

Caroline Alméras
ETRA

Thierry Goger
ETRA

Armando Carrillo
ETRA

Torsten Klimke
European Commission DG MOVE

Maria Carbone
European Commission DG MOVE

Jane Amilhat
European Commission DG RTD

Andrea Gentili
European Commission DG RTD

Patrick Mercier-Handisyde
European Commission DG RTD

Máté Verdes
TRA2024 Observer
Hungarian Roads

Judit Tóbiás
TRA2024 Observer
Hungarian Roads

András Munkáscy
TRA2024 Observer
KTI Hungarian Institute for Transport Sciences & Logistics

Jaap Gebraad
WATERBORNE

David Abril Molins
WATERBORNE

Organising Committee

Celine Crawford
Organising Committee Chair
ARUP Ireland

Ovidiu Dumitrache
ACARE

Andrea Annunziata
ALICE

Fernando Liesa
ALICE

Orla O'Halloran
ARUP Ireland

Joelle Daem
CEDR

Jérome Defrance
CSTB

Charles McLean
Dublin Airport

Chris Smith
Department of Transport

Brendan O'Brien
Dublin City Council

Liam O'Brien
Dublin City Council

Chris Smith
Department of Transport

Nicola Shiels
Department of Transport

Enzo Gueli
European Commission DG RTD

Caroline Alméras
European Conference of
Transport Research Institutes

Ana Pereira
European Conference of
Transport Research Institutes

Keelan Keogh
Engineers Ireland

Brigid Burke
Enterprise Ireland

Marina Donoghue
Enterprise Ireland

Xavier Aertsens
ERTRAC

Thierry Goger
FEHRL

Declan Fitzpatrick
Irish Aviation Authority

Ita Lynn
IDA Ireland

Aimee Stewart
IDA Ireland

Andrew Vogelaar
IDA Ireland

Paul Brewster
Irish Maritime Development
Office

Liam Kenny
Irish Rail

Jane Cregan
Irish Rail

Mark Elmore
Intelligent Transport
Systems Ireland

Juan Martinez Covarrubias
National Transport Authority

Eilish McDonagh
Road Safety Authority

Michael Rowland
Road Safety Authority

Carl Gibney
Science Foundation Ireland

Shona O'Brien
Science Foundation Ireland

Ann Marie Colbert
Sustainable Energy Authority
of Ireland

David Laoide-Kemp
Transport Infrastructure Ireland

Esther Madden
Transport Infrastructure Ireland

Richella Mulvihill
Transport Infrastructure Ireland

Jennifer Sherry
Transport Infrastructure Ireland

Bidisha Ghosh
Trinity College Dublin

Paraic Carroll
University College Dublin

Miguel Casero Flórez
University College Dublin

Beatriz Martinez-Pastor
University College Dublin

Myra Lydon
University of Galway

David Abril Molins
WATERBORNE

Amy Bartlett
Conference Partners
International

Edel Byrne
Conference Partners
International

Programme Committee

Ciaran McNally
TRA2024 Programme Committee Chair
University College Dublin

Joris Melkert
ACARE

Ovidiu Dumitrache
ACARE

Tomas Ambra
ALICE

Yanying Li
ALICE

Fernando Liesa
ALICE

Domokos Esztergar-Kiss
Budapest University of Technology & Economics

Torsten Geissler
CEDR

Johan Jonsson
CEDR / ERRAC

Pablo Perez Illana
CINEA

Pascale Wauters
Clean Aviation

Mirela Atanasiu
Clean Hydrogen

Marina Efthymiou
Dublin City University

Jérome Defrance
ECTP

Alain Zarli
ECTP

Marion Berbineau
ERRAC

Marta Garcia
ERRAC

Zissis Samaras
ERTRAC

Peter Urban
ERTRAC

Karen Vancluysen
ERTRAC

Caroline Almeras
ETRA

Wouter Van den Berghe
ETRA

Armando Carillo Zanuy
ETRA

Judit Sandor
Europe's Rail JU

Maria Carbone
European Commission
DG MOVE B3

Torstem Klimke
European Commission
DG MOVE B3

Guido Sachetto
European Commission
DG RTD C2

Patrick Mercier-Handisyde
European Commission
DG RTD C2

Maria Guillen Molina
European Commission
DG RTD C3

Michael Kyriakopoulos
European Commission
DG RTD C3

Biagio Ciuffo
European Commission – JRC

Monica Grosso
European Commission – JRC

Luis Picado Santos
IST – Lisbon

Andras Munkacsy
KTI Institute of Transportation Science and Logistics

Peter Hotham
SESAR JU

Lorraine D'Arcy
Technological University Dublin

Nikolaos Valantasis Kanellos
Technological University Dublin

Paul Liston
Trinity College Dublin

Bidisha Ghosh
Trinity College Dublin

Bernard Jacob
Université Gustave Eiffel

Gerry Sutton
University College Cork

Paraic Carroll
University College Dublin

Beatriz Martinez-Pastor
University College Dublin

Rory Monaghan
University of Galway

Kevin Ryan
University of Limerick

Jaap Gebraad
WATERBORNE

David Abril Molins
WATERBORNE

Conference Structure

Ciaran McNally
Programme Committee Chair

Programme Colour Codes

- **Monday 15th April 2024**
- **Tuesday 16th April 2024**
- **Wednesday 17th April 2024**
- **Thursday 18th April 2024**

As Chair of the Programme Committee, I am delighted to welcome you to the 10th edition of the Transport Research Arena (TRA2024). TRA is Europe's largest event on transport and mobility and seeks to explore how research led innovation can transform the transport sector and deliver systems that work for all of society. TRA2024 builds upon the success of previous conferences, and the programme design draws upon what has worked well in previous TRA conferences. This means that we will...

- Bring together Europe's leading researchers, policy makers and industry leaders in an environment that promotes sharing of best practices.
- Deliver a multi-modal conference, and invite contributions from across the aviation, rail, road, waterborne and cross-modal sectors.
- Use a variety of session types to promote the exchanges needed to deliver tomorrow's transport systems.

The tagline for TRA2024 is **Transport Transitions: Advancing Sustainable and Inclusive Mobility**. This speaks to the need for the transport sector to respond to the green & digital transitions, and in a way that results in systems that are resilient and meeting the needs of society. This leads then to the 4 overarching themes for TRA2024, namely **Safe & Inclusive Transport, Sustainable Mobility of People & Goods, Efficient & Resilient Systems and Collaborative Digitalisation**. Each day of the conference is associated with a particular theme, and we have used this as a lens to focus on key societal needs in these areas. In designing the conference programme, the venue was also an important consideration. The conference takes place in the grounds of the Royal Dublin Society (RDS), established in 1731. It is a historic venue, rich in heritage and with a large campus. The conference will take place across two locations (the RDS Main Campus and the Simmonscourt Pavilion), with different activities in each. The main campus will be the venue for the exhibition and all of the oral presentations for the technical papers; this is also where lunch is served each day. The Simmonscourt Pavilion will host the larger conference sessions (plenary sessions, strategic sessions & Ministerial roundtables); it will be the venue for the poster presentations and the special sessions. There is an outdoor walk of about 500m between venues this space will be used as an outdoor demonstration area, showcasing some of the latest transport innovations.

Each day of the conference will feature a **plenary session**, where high-level speakers will discuss the core theme of the day; the sessions are forward-looking, and speakers will offer insights relevant to their sector. The plenary sessions are supported by a series of **strategic sessions**, where specific mobility policies are debated by subject experts drawn from across all modes. In the later afternoon on each day, there will also be a high-level **Ministerial roundtable**, focusing on how policy instruments are adapting to the transitions required.

The core of the conference are the **technical sessions**. Over the course of 4 days we will hear from around 800 speakers who will present their research work. About 450 of these will be by oral presentation, with 350 by poster presentation. These presentations are grouped by research theme, and many of these themes run over several days. At TRA2024 we have made a special effort to promote the poster presenters, with dedicated stages for lightning presentations and a prominent location beside the plenary hall. Finally, we have a number of **special sessions** that are proposed and designed by the TRA community and addressing topics of special interest; these frequently feature panel discussions and invite audience contributions.

TRA2024 will be a very large conference, with over 3000+ attendees from over 50 countries. It would not be possible without the support of the authors of the papers, the reviewers, the invited speakers, the various TRA committees, the Irish host and the conference organisers, Conference Partners International. On behalf of the TRA team I look forward to welcoming you to Dublin and wish you an informative and collaborative conference.

Ciaran McNally – Programme Committee Chair

Opening Ceremony

The TRA2024 Opening Ceremony will all take place on the Main Stage in Hall 8C in the Simmonscourt complex.

Monday 15th April 2024 09:30 - 11:00	
	Live Irish Entertainment on Stage
	Jonathan Healy - Introduction & Welcome
	Lord Mayor of Dublin Daithí de Róiste
	Minister Eamon Ryan, TRA2024 President
	European Commissioner Iliana Ivanova, European Commissioner for Innovation, Research, Culture, Education and Youth (Video)
	Magda Kopczyńska, Director General DG MOVE
	Special Guest Jack Kavanagh, Non-Executive Director, National Disability Authority and Centre for Excellence in Universal Design
TRAVISIONS 2024	TRA VISIONS 2024 Young Researcher Award
	Finale Entertainment
	Jonathan Healy - Final Remarks and Instructions

Please note; the following information was accurate at the time of distribution. For the latest updates please refer to the app.

Plenary & Round Tables

The plenary and round table ssessions will all take place in Hall 8C in the Simmonscourt complex. The host session will take place in Hall 7 Concert Hall.

Monday 15th April 2024

Time	Title	Session
11:00 - 12:30	**Safe & Inclusive Transport** · Placing the user at the heart of policies and solutions to deliver more inclusive transport systems · Enhancing our understanding of behavioural drivers · Delivering sustainable and efficient modal choices with improved safety performance · Transitioning to enable economic growth, supporting the single market and international co-operation · Creating new employment opportunities, markets, skills, and training **Speakers**: **Panellists:** Anne Graham, CEO NTA Klara Wittkowski, VP R&T Development and partnerships Airbus Claes Berglund, President EU Ship Owners Association, Director Public Affairs and Sustainability, Stena Rudolf Bencker, SVP BMW Group, Innovation Management Robert Hampshire, US Deputy Assistant Secretary for Research and Technology Ken Spratt, Secretary General Ireland's Department of Transport Maria Luisa Dominguez, Strategic Plans and Projects Director and Advisor to the Board of ADIF & President of EIM **Moderator:** Liz O'Donnell, Chair RSA, former Irish Minister	Plenary **Location:** Hall 8 (Main Stage)
14:00 - 15:15	**Session 1: Transport Agency of the Future** **Objectives**: To examine the challenges and drivers shaping the future of the transport sector and how public agencies across the world are planning to address these through refocusing their mission and vision on societal values, envisioning their future operating models, organizational structures, workforce, and cultures. **Speakers:** **Panellists**: Mr. Shailen Bhatt, US Department of Transportation (DOT) Federal Highway Administration Mrs. Alison Irvine, Transport Scotland Mr. Sylvain Haon, UITP Mr. Kenny Jacobs, daa Plc Sam Waide, Road Safety Authority **Moderator:** Mrs. Victoria Sheehan, Transportation Research Board	Host Session **Location:** Hall 7 (Concert Hall)

15:45 - 17:00	**Session 2: Transport Agency of the Future** **Objectives**: To examine the challenges and drivers shaping the future of the transport sector and how public agencies across the world are planning to address these through refocusing their mission and vision on societal values, envisioning their future operating models, organizational structures, workforce, and cultures. **Speakers:** **Presenter:** Mr. Patrick McKenna, Missouri Department of Transportation **Panellists:** Rachel Cahill, TII Brian Cronin, Director USDOT ITS Joint Program Office Andreas Boschen, Executive Director SESAR 3 JU Dr Angelos Amditis, Research And Development Director Iccs **Moderator:** Mr. Patrick Mallejacq, PIARC - World Road Association	Host Session **Location:** Hall 7 (Concert Hall)
17:15 - 18:30	**Transport Policy & Regulation** · All modes of transport (road, rail, aviation, and water) face an urgent decarbonisation challenge to address climate change. · Major change requires a change in mindset. · Different geographies have contrasting transport challenges. · Although the national challenges differ (safely, energy consumption, circular economy enforcement, digital infrastructure investment, land use planning, access for all across the rural/urban divide, etc.) the urgent need to deliver adaption and resilience remains consistent. · Recognising the critical urgency associated with decarbonisation across the transport arena, this panel will discuss how we can communicate, plan and action a change in mindset that supports unified policy and regulatory outcomes. **Speakers:** **Minister:** Minister Jack Chambers, Ireland's Department of Transport **Panellists:** Magda Kopczyńska, Director General DG MOVE Sarah Sharples, DfT Chief Scientific Advisor Dr Robert Hampshire, US Deputy Assistant Secretary for Research and Technology Declan Fitzpatrick, CEO IAA Beryl Tomay, VP Last Mile Delivery Amazon Lynne Embleton, CEO Aer Lingus **Moderator:** Pat Cox, TEN-T Coordinator and Former President European Parliament	Round Table **Location:** Hall 8 (Main Stage)

Plenary & Round Tables

The plenary and round table ssessions will all take place in Hall 8C in the Simmonscourt complex. The host session will take place in Hall 7 Concert Hall.

Tuesday 16th April 2024

Time	Title	Session
11:30 - 13:00	**Sustainable Mobility of People and Goods** · Addressing the European Green Deal, delivering a 55% reduction in transport-related greenhouse gas emissions (GHGs) by 2030 and 90% by 2050 · Implementing multi-disciplinary research and innovation across all sectors of society to deliver sustainable mobility · Fostering cohesion, reducing regional disparities, and improving connectivity and access to the internal market for all · Discussing environmental impacts and loss of biodiversity · Supporting greener mobility of people and goods via zero-emissions' vehicles and systems **Speakers:** **Panellists:** Rosalinde Van der Vlies, Director of Clean Planet DG RTD Deputy Manager EU Cities Mission David McRedmond, CEO An Post, Ireland Manolis St. Koutoulakis, General Secretary, Ministry of Maritime Affairs & Insular Policy Rodrigo da Costa, Executive Director EUSPA Gerald Killman, Toyota SVP Purchasing, R&D and Hydrogen Factory Europe Carole Desnost, CTO SNCF **Moderator:** Aoife Ahern, UCD Dean of Engineering & VP EDI	Plenary **Location:** Hall 8 (Main Stage)
17:30 - 18:45	**Climate & Energy** This panel will discuss the energy transition required by introducing more energy efficient vehicles in combination with a shift from fossil fuel to cleaner renewable energy sources (e.g., wind, tidal, solar) in the context of the technologies that will support transport systems of the future (e.g., renewable electricity, green hydrogen, and synthetic fuels). The implementation pathway to deliver ambitious clean energy policies, the role of fiscal supports, green financing, and research and innovation enabling the transition; and, what this means for the future shape of our urban, regional and rural landscape **Speakers:** **Minister:** Minister Eamon Ryan, Minister for Climate, Energy and Communications, Minister for Transport **Panellists:** Rosalinde van der Vlies, Director of the Clean Planet Directorate DG RTD, Deputy Manager EU Cities Mission Young Tae Kim, Secretary General ITF OECD Deputy Assistant Secretary US Dept of Energy Patrick Buckles CEO Beta Adam Elman, Google Minister Georges Gilkinet, Belgian Minister for Mobility **Moderator:** Director General, EPA	Round Table **Location:** Hall 8 (Main Stage)

Plenary & Round Tables

The plenary and round table ssessions will all take place in Hall 8C in the Simmonscourt complex. The host fireside chat will take place in Hall 7 Concert Hall.

Wednesday 17th April 2024

Time	Title	Session
11:30 - 13:00	**Efficient & Resilient Systems** · Scaling green and digital transport systems to meet the increasing demands · Building in resilience to withstand and recover from disruptions · Making use of new innovations to support appropriate management and investments, linking energy supply and access to raw materials as our transport systems move from fossil fuels to more sustainable alternatives · Applying circular economy principles across all elements of the transport system · Supporting the strategic autonomy of the European transport sector in a world of changing geopolitics regulation and conflict **Speakers:** **Keynote:**Shailen Batt, US Federal HighwaysAdministrator **Panellists:** Mathew Baldwin, Deputy Director-General DG Energy Tjark de Vries, CEO Strukton Zeno D'Agostino, Chair EU Sea Ports Peter Walsh, CEO TII Tracey Ryan, Chair of Infrastructure NZ Marylin Bastin, Acting Director of the European Green Sky Directorate EGSD EUROCONTROL **Moderator:** Jo da Silva, Global Director of Sustainable Development, Arup	Plenary **Location:** Hall 8 (Main Stage)
09:45 - 11:00	**The Deployment of Sustainable Mobility at National Level - Linking Policy to Implementation** This Host Session will address the important linkages between Policy, Practice and Research in Future Sustainable Mobility and will be in an interactive workshop format. **Speakers:** **Panelists:** Stephen Kent, Bus Eireann Dr John Martin, Dept of Transport , Ireland Joe Seymour, National Transport Authority Mrs. Octavia Anamaria Stepan, European Climate, Infrastructure and Environment Executive Agency - CINEA, EC Dr Vittorio Torbianelli, Port of Trieste Stefan Seer, AIT Austrian Institute of Technology GmbH Dr András Munkácsy, Senior Researcher, Head Of The Transport Development Research Centre, KTI Hungarian Institute For Transport Sciences And Logistics Ms. Orla Campbell, Active Travel England Dr Lorraine D'Arcy, Sustainability Action Research & Innovation Lead TU Dublin **Moderator:** Mr Conall Mac Aongusa	Host Session **Location:** Hall 7 (Concert Hall)

17:45 - 18:45	**Investment & Delivery for Global Competitiveness** · Investment and Delivery plays critical roles in implementing systems that can scale and adapt to the global realities of climate change and digitalisation. · As our vehicles become more sustainable, existing government taxation/emission revenue streams will be altered. Any drop in funding has the potential to put pressure on future transport investments. And with new projects increasingly complex, involving inter-connected technology, safety standards, and environmental issues, the outcome could result in a disruption in the delivery model. · Funding is critical in managing project delivery in a timely manner and on budget. While supporting sustainability and low-carbon agenda, rapid development and accelerating societal change, all combine to create new risks and wide-ranging uncertainty. This panel will discuss the changing landscape of traditional project investment and delivery methods and the current and future challenges in delivering complex projects successfully. **Speakers:** **Minister:** **Panellists:** Fiona Hyslop, Scotland Cabinet Secretary for Transport Michael Lohan, CEO IDA Jim Meade, CEO Irish Rail Thomas Fowler, Dir Sustainability and Finance Ryanair Mr. Eero Lehtovaara, Abb Marine And Ports **Moderator:** Giorgio Travaini, Executive Director Europe's Rail	Round Table **Location:** Hall 8 (Main Stage)
19:00 - 21:00	**Women in Transport – Agents of Change** · The TRA2024 "Women in Transport - Agents of Change" panel will discuss: What are the challenges in attracting and retaining women in Transport roles? How to promote women in senior decision and leadership positions? Are role models important in empowering women? Are the skills, career openings, and educational requirements in the transport sector evolving? How do we influence future generations – i-Wish, STEM, etc.? What impact has culture on women in transport? Is gender balance and parity necessary? What place has positive discrimination in promoting women in transport? Are women the most untapped yet educated transport resource? What can we learn from other geographies and sectors? What are the transport career "barriers to entry?" Per the International Transport Forum (ITF), women remain underrepresented in most transport-related industries, with only 17% female employees on average across a sample of 46 countries. Both attracting and retaining them remains a challenge for governments and the private sector. The European Commission report on "Gender Balance in the R&I Field to Improve the Role of Energy in the Energy Transition" emphasizes the need to promote STEM careers, with 200,000 additional women required in the EU27 energy sector by 2050 to maintain minimal gender balance. **Speakers:** **Introduction:** Ms. Kate White, Arup **Panellists:** Dr Lorraine D'Arcy, Sustainability Action Research & Innovation Lead, TU Dublin Fiona Ross, Director of the Clean Planet Directorate DG RTD, Deputy Manager EU Cities Mission Mrs. Victoria Sheehan, Transportation Research Board Mrs. Rosalinde Van Der Vlies, Director of the Clean Planet Directorate DG RTD, Deputy Manager EU Cities Mission European Commission **Moderator:** Sarah Carey, Columnist with the Irish Independent and consultant to TII	Host Fireside Chat **Location:** Hall 7 (Concert Hall)

Plenary & Round Tables

The plenary and round table ssessions will all take place in Hall 8C in the Simmonscourt complex.

Thursday 18th April 2024

Time	Title	Session
8:30 - 9:30	**Research & Innovation** · The way we live, and travel is changing. · It is imperative we identify and prioritize our innovation investments and focus to enable a phased approach from research to implementation. · New projects are more complex involving inter-connected technology, demanding safety standards, and environmental issues, resulting in delivery disruption. · The sustainability and low-carbon agenda, the rapid development of innovative technologies and accelerating societal change all combine to create new risks and wide-ranging uncertainty. · Traditional roles need to be upskilled and the future workforce needs to be prepared to integrate with AI and technological developments. It is imperative that we develop skills, and systems that can scale and adapt to the global realities of climate change and digitalisation. · This panel will discuss the critical roles that research, and innovation play in maintaining geographical competitiveness in an ever changing social, economic and cultural landscape **Speakers:** **Minister:** **Panellists:** Signe Ratso, Deputy Director, DG RTD John O'Dowd, NI Minister for Infrastructure Marina O'Donohoe, Enterprise Ireland, Head of R&I Frances Wood, UKRI International Director Firas Ibrahim, Director of the Office of Research, Development, US DoT **Moderator:** Steve Phillips, Secretary General CEDR	Round Table **Location:** Hall 8 (Main Stage)
11:30 - 13:00	**Collaborative Digitalisation** · Utilising digitalisation as a key driver of change leading to efficiencies in all modes and the adoption of Intelligent Transport Systems (ITS) · Automating mobility · Mobility as a Service (MaaS) · Accelerating the digital transition to data sharing and efficient European connectivity, · Addressing governance, cyber security and open science and digital infrastructure (5G and beyond) · Discussing the impact of artificial intelligence (AI) and other digital technologies **Speakers:** **Keynote:** Paddy Flynn, VP of Google Maps **Panellists:** Ms Signe Ratso, Deputy-Director General DG RTD Oscar Corcho, Professor Artificial Intelligence, University Madrid Robert Morris, CEO UK & Ireland Siemens Mobility Tom Keane, Associate Administrator for Reaserch and Registration, US Federal Motor Carrier Safety Administration John Lewis, Executive Director Engineering, Collins Aerospace Chris Paton, CTO UK Highways **Moderator:** Flore Boinot – RExternal Affairs, Sustainability & Collaborative Research Development Manager, Valeo Group	Plenary **Location:** Hall 8 (Main Stage)

Strategic Sessions

Monday 15th April 2024

Time	Title	Room
15:45 - 17:15	**Strategic Session 1.1 - From Research to Evidence-based Transport Safety Strategies – Towards Vision Zero** This session addresses the persistent challenge of traffic collisions causing fatalities and injuries in the EU. Current transport safety policies are not always evidence-based, leading to inefficiencies and high societal costs. This session aims to highlight examples and initiatives demonstrating the potential for improving the link between research and policymaking. It advocates for a proactive Safe System Approach, leveraging virtual testing and simulation to predict the effectiveness of safety measures. Attendees will gain insights into developing and implementing evidence-based transport safety policies, understanding the role of dedicated research, and identifying new approaches. The key takeaways emphasize the possibility of enhancing the efficiency of transport safety policies, the necessity for dedicated research, cross-country learning opportunities, and the importance of safety considerations in all transport policy measures. **Speakers:** Kristian Schmidt, European Commission, DG MOVE João Cardoso, LNEC Veronique Feypell, International Transport Forum (ITF) Tjark Kreuzinger, Toyota Helen Hughes, Transport Infrastructure Ireland Ellen Grumert, Swedish National Road and Transport Research Institute (VTI) **Moderator:** Magnus Granström, SAFER **Rapporteurs:** Peter Urban, RWTH Aachen **Session Organisers:** Peter Urban, RWTH Aachen; Wouter van den Berghe, Tilkon	Hall 8B
15:45 - 17:15	**Strategic Session 1.2 - Future Workforce & Skills** This session addresses the multifaceted employment challenges and opportunities arising from the transitions occurring in the transport sector. Key issues include the impact of this transition on employment, skill requirements, and the attractiveness of the industry. The session explores strategies to attract more individuals to the transport sector, increase diversity, bridge gender and age gaps, and address issues related to race and disability. It also delves into the need for a diverse skill set, including soft skills, and the challenges and opportunities presented by the complex future of the transport sector. The session emphasizes the necessity for a collaborative effort between industry, the public sector, and academia, aiming to tackle issues such as retraining the existing workforce, promoting social skills, and preparing for the complexities of the evolving industry. Attendees can expect hands-on recommendations, good practice examples, and insights into filling the gaps between industry demand and educational offerings. The session targets a broad audience, including experts, and aims to provide strategic insights and transformative examples in the context of the changing transport landscape. **Speakers:** Cristina Pronello, Politecnico di Torino, We-Transform Project Ana Manuelito, UNIFE - The European Rail Supply Industry Association Elisabeth Kotthaus, European Commission, DG MOVE Georg List, Vice President, Corporate Strategy AVL Floridea di Ciommo, Cambia MO Katalin Dobranszky, European Community Shipowners Association **Moderator:** Thierry Goger, Secretary General, FEHRL **Rapporteurs:** David Abril Molins & Tatiana Kováčiková **Session Organisers:** David Abril & Jaap Gebraad, Waterborne	Hall 8D

15:45 - 17:15	**Strategic Session 1.3 - People Centred & Inclusive Mobility** This session addresses the need for more people-centred and inclusive mobility, seeking to clarify these terms and present successful examples. The discussion will explore the user and provider perspectives, focusing on inclusive services and the provision of services that are people-centric. The session aims to take stock of positive examples to identify driving forces and development processes, fostering a moderated discussion on characteristics of solutions for achieving people-centred and inclusive mobility. Topics include considerations for under-serviced groups, low-income users, transport poverty, gender inclusivity, accessibility for disabled individuals, and user perspectives in transport system planning. The potential for guidelines for future endeavours will be explored. Attendees can expect insights into successful implementations, discussions on the role of research and feasibility aspects. The session aims to inspire attendees with examples showcasing the improvement of inclusiveness and people-centricity in mobility and the effects of such initiatives. Take-away messages include the recognition of the reasons for enhancing inclusiveness and people-centricity, along with inspirational examples, and potential guidelines and additional research that could accelerate further implementation. **Speakers:** Torsten Klimke, European Commission, DG MOVE Delphine Grandsart, European Passengers Federation (EPF) Francoise Guaspare, Ile de France Mobility Lindsay Mancini, International Association of Public Transport (UITP) Brendan O'Brien, Dublin City Council **Moderator:** Ingrid Skogsmo, Swedish National Road and Transport Research Institute **Rapporteurs:** Marta Garcia; UNIFE; Monica Grosso, EC JRC **Session Organisers:** Caroline Almeras, ECTRI; Marta Garcia; UNIFE; Monica Grosso, EC JRC; Ingrid Skogsmo, VTI	Hall 2A

Tuesday 16th April 2024

Time	Title	Room
16:15 - 17:30	**Strategic Session 2.1 - Future Urban and Suburban Mobility Services** This session addresses the challenge and opportunity of integrating new and shared mobility services into urban and peri-urban areas to support the ambitious objectives of the Green Deal and the Smart & Sustainable Mobility Strategy. European cities and regions are aiming to reduce the reliance on private cars in their mobility ecosystems, and the session explores the need for high-quality, sustainable alternatives that complement mass transit and cater to diverse citizen needs. The emergence of new mobility services such as shared micromobility, carsharing, and ride-hailing presents opportunities, but effective governance frameworks and intermodal solutions are crucial to maximize benefits and address potential negative impacts. The discussion focuses on deploying innovative business models and public-private partnerships to extend the reach of these services to suburban areas, where car dependence is higher. Attendees can expect insights into the current and potential roles of new mobility services in sustainable urban and peri-urban mobility, emphasizing the importance of governance models, integration with public transport, and collaborative approaches for financial viability and public policy outcomes. The take-away messages include the key framework conditions necessary for new mobility services to positively contribute to sustainable urban and peri-urban mobility. **Speakers:** Natalia Ciciarello, City of Paris Edwin Mermans, Province of Noord-Brabant Christy Pearson, Voi Technology Lucas Casasnovas, SEAT MO Francesco Pilla, University College Dublin Michael Pellot Garcia, Transports Metropolitans de Barcelona Federico Cartasegna **Moderator:** Rosalinde van der Vlies, European Commission, DG RTD **Rapporteurs:** Karen Vancluysen, POLIS **Session Organisers:** Karen Vancluysen, POLIS; Patrick Mercier-Handisyde, EC DG RTD	Hall 8B
16:15 - 17:30	**Strategic Session 2.2 - Zero-emission Mobility, Health, and the Environment: Benefits and Future Challenges** This session underscores the critical role of zero-emission mobility in securing a healthier future for Europe, not only for the planet but for the well-being of its citizens. The harmful impacts of air and noise pollution caused by transport emissions, including premature deaths, respiratory issues, cardiovascular diseases, and mental health problems, are highlighted. The European Environment Agency identifies noise as a significant environmental health factor, impacting 20% of the EU population. Transport emissions, the sole sector with increasing greenhouse gas emissions, contribute to air quality problems, climate effects, biodiversity loss, and water pollution. A sustainable mobility future necessitates a safe, clean, environmentally friendly, efficient, quiet, and affordable transport system. The session emphasizes the importance of improving technologies, transitioning to eco-friendly transport modes, and optimizing or minimizing unnecessary trips. While aviation and waterborne transport aim for net-zero emissions, challenges persist, particularly in localized pollution near airports and ports. Road transport is moving toward zero-emission, but challenges related to non-exhaust particle emissions from brakes and tires remain. Rail transport, considered the greenest mode, also faces challenges related to particles and noise. The session advocates for intensified research and innovation activities across all transport modes to achieve the EU's policy goals of net-zero greenhouse gas emissions by 2050 and significant reductions in air pollutants. The discussion will explore the health impacts of transport and the benefits of a complete shift to zero-emission mobility for EU citizens, outlining key research and innovation challenges that need addressing to support positive developments and maintain Europe's leadership in mobility innovation, production, and services.	Hall 8D

	Strategic Session 2.2 **Speakers:** Sebastiaan Bleuanus, Wärtsilä Eugene Kors, Safran Aircraft Engines Roberto Vavassori, Brembo SpA Micheál Lehane, EPA Ireland **Moderator:** Andrea Gentili, European Commission, DG RTD **Rapporteurs:** Zissis Samaras, ERTRAC **Session Organisers:** Guido Sacchetto, EC DG RTD; Zissis Samaras, ERTRAC	
16:15 - 17:30	**Strategic Session 2.3 - Logistics Decarbonisation Champions: accelerating the decarbonisation of freight transport** This session addresses the challenge of reducing, drastically and in the short term, greenhouse gas emissions from freight transport, while transport demand is projected to more than double by 2050. Despite optimistic scenarios for increased rail and inland waterways transport, road transport remains dominant. The market is showing a demand for sustainable products, prompting key supply chain players to embark on decarbonization efforts. The session emphasizes the need for urgent, large-scale adoption of existing low-carbon technologies and innovative solutions to achieve a targeted 55% emission reduction by 2030. Champions in freight transport decarbonization will discuss strategies, priority areas, and actionable solutions to accelerate sustainability. The focus is on real-world implementation of available innovative solutions, enablers for logistics decarbonization, barriers to scaling sustainable offerings, and short and long-term initiatives to meet EU Green Deal targets. Attendees, including users, transport representatives, and researchers, will gain insights into ongoing decarbonization efforts, successful strategies, and the crucial role of policy and industry support.. **Speakers:** Annika Kroon, European Commission, DG MOVE Andrea Condotta, GRUBER Logistics Maria Luisa Melo, DHL Abhinand Chandrasekar, Future Proof Shipping Carles Rua, Port of Barcelona and Sergio Barbarino, Proctor & Gamble **Moderator:** Alan McKinnon, Kühne Logistics University **Rapporteurs:** Fernando Liesa, ALICE **Session Organisers:** Paula Chiarini, EC DG MOVE; Fernando Liesa, ALICE	Hall 2A

Wednesday 17th April 2024

Time	Title	Room
16:15 - 17:30	**Strategic Session 3.1 - The Resilient Transport Network: Enhancing and Maintaining Europe's Infrastructure to Cope with Decarbonization and Climate Change** This session addresses the challenge of evolving resilience in the transport system amid changing dynamics. It explores the use and planning of current and future European transport infrastructure in response to factors like automation, electrification, and hydrogen adoption, emphasizing decarbonization and climate change impacts. The convergence of transport, energy, and digital infrastructure networks is considered, along with challenges related to technological development and implementation, alternative fuel infrastructure, and regulatory impact on decarbonization and resilience. Key bottlenecks in the land transport system, such as bridges and tunnels, are highlighted, and strategic and operational perspectives on coping with these issues are presented. Representatives from EU and Member States, transport operators, and the construction sector share insights, providing a comprehensive view of evolving resilience in the context of decarbonization and climate adaptation. Attendees will gain key takeaways regarding current initiatives, policy contributions, stakeholder perspectives, and financial mechanisms supporting the transition to net-zero and climate-neutral transport infrastructures. **Speakers:** Herald Ruijters, European Commission DG MOVE Jan Slager, Rijkswaterstaat Prof Athena Roumboutsos, University of the Aegean Tim Reardon, PWC Australia Richard Bradley, CRH **Moderator:** Prof Alan O'Connor, Trinity College Dublin **Rapporteurs:** Ciaran McNally, University College Dublin **Session Organisers:** Jerome DeFrance, ECTP; Johan Jonsson, CEDR/ERRAC; Miguel Segarra, ECTP	Hall 8B
16:15 - 17:30	**Strategic Session 3.2 - Circular Economy Ecosystems for EU Transport** This session delves into the theme of Circular Economy (CE) business models in the transport sector, exploring opportunities, challenges, and boundaries. The discussion focuses on mode-specific aspects related to data, materials, design, and End-of-Life (EoL), aiming to identify commonalities, differences, and potential actions. The session is divided into presentations by speakers, each lasting 10 minutes, and a panel discussion that incorporates audience input. Attendees will benefit by learning more about CE business models, exchanging knowledge and experiences, and gaining insights into research needs and policy requirements within the transport sector. Key take-away messages include priorities for addressing challenges and hurdles, emphasizing the crucial role of implementation for competitiveness and resource sovereignty. Harmonization within and across modes is identified as a necessity, along with the need to increase acceptance of CE approaches and requirements in the transport industry. **Speakers:** Rosalinde Van Der Vlies, European Commission, DG RTD Marcus Seidel, EUCAR - European Council for Automotive R&D Heidi Hopper-Duffy, Irish Rail Pieter Huyskens, Damen Research Prof Marzia Traverso, RWTH Aachen **Moderator:** Thilo Bein, Fraunhofer LBF **Rapporteurs:** Armando Carrillo-Zanuy, EURNEX **Session Organisers:** Thilo Bein, Fraunhofer LBF; Armando Carrillo-Zanuy, Eurnex	Hall 8D

16:15 - 17:30	**Strategic Session 3.3 - Electrification of Land Transport** This session addresses the intricate relationship between energy and resilient transport, emphasizing the transition from fossil fuels to sustainable sources as a major challenge. The clean energy and transport transitions are interdependent, requiring a 90% reduction in transport emissions by 2050 to achieve climate neutrality. Key hurdles include the development of charging infrastructures and smart grids. The discussion will include the European Green Deal's focus on secure and affordable EU energy supply, an integrated and digitalized energy market, and renewable energy sources. The session highlights the deep structural changes needed for the mobility and energy transitions, emphasizing societal choices and engagement from governments, the private sector, citizens, and civil society. Electrification, especially in road transport, is a strong and irreversible trend, but challenges persist in sectors like waterborne and aviation. The European Alternative Fuel Infrastructure Regulation (AFIR) aims to ensure sufficient infrastructure, playing a crucial role in fostering growth and development of alternative fuel vehicle, also laying down common technical specifications and requirements. The session also explores the role of smart charging technology and its challenges. Electric Vehicles batteries have the potential to serve as power grid storage, enabling greater deployment of renewable electricity and providing back-up power in case of emergency. Public transport land and networks can also host renewable energy facilities such as road and track side PV generation connected directly into electric supply or charging infrastructure. Overall, it discusses the challenges, implications, and needed infrastructures for future energy needs and the transition to resilient and efficient zero-emission mobility in Europe – keeping a user-centric approach. **Speakers:** Prof Daniel Sperling, UC Davis Michael Bueltmann, ABB Edel Sheridan, SINTEF & Batteries Europe Niklas Gustafsson, Volvo Mahmoud Hassan, SNCF **Moderator:** Piotr Szymanski, European Commission Joint Research Centre **Rapporteurs:** Monica Grosso, JRC **Session Organisers:** Xavier Aertsens, ERTRAC; Guido Sacchetto, EC DG RTD	Hall 2A
16:15 - 17:30	**Strategic Session 3.4 - Sustainable Alternative Fuels** The session aims to explore the challenges and opportunities of sustainable alternative fuels (SAF) for waterborne and aviation transport, with a focus on the technology, infrastructure and policy aspects. Waterborne and aviation are the hardest to decarbonize transport modes, heavily relying on SAF to achieve the goals of green transition and, at the same time, facing the limited availability and high cost of these fuels. The focus on both transport modes aims to address the shared and individual challenges and solutions of both sectors, focusing on the new technologies on the European and global horizon. The speakers will include representatives from fuel suppliers, end-users, civil society and the European Commission, as well as possibly from the infrastructure sector. The session will cover a range of SAF technologies, such as hydrogen, from a technologically neutral perspective, and will address the policy developments of FuelEU Maritime, ReFuelEU Aviation, EU ETS, RED and AFIR. The session will also consider the long-term vision of 2050, as well as the mid-term targets of for both sectors. **Speakers:** Antonis Michail, International Association of Ports and Harbors Agnes Thornton, Sustainable Flight Solutions Linden Coppell, MSC Cruises Torsten Klimke, European Commission, DG MOVE Donal Moriarty, Aer Lingus Fuel Supplier, Jean-Marie Mizzi, Fuels Europe **Moderator:** Paloma Aba Garrote, CINEA **Rapporteurs:** Marina Efthymiou, DCU **Session Organisers:** Marina Efthymiou, DCU; María Guillén Molina, EC DG RTD	Hall 8C

Thursday 18th April 2024

Time	Title	Room
14:15 - 15:30	**Strategic Session 4.1 - Connected, Cooperative and Automated Mobility: What Next for New Mobility Services?** This session focuses on Connected Cooperative and Automated Mobility (CCAM) developments since the 2018 communication, addressing transport megatrends and the strategy for future mobility. It emphasizes the co-evolution of technology and social innovation, cross-sector collaboration, governance issues, security, and privacy considerations to support new mobility services. The session recognizes the shift from a historically predominant technology perspective to a broader context that includes institutional challenges like fragmentation, intermodality, data openness, and regulation. Attendees can expect discussions on the political relevance of CCAM, its contribution to sustainability and safety, and the readiness of regulatory frameworks and governance mechanisms. The key takeaways will include insights into commonalities in research, innovation, and measures needed to bring multimodal CCAM services closer to deployment. **Speakers:** Herald Ruijters, European Commission DG MOVE Armin Gräter, BMW & CCAM Partnership Teresa Cizkova, Czech Ministry of Transport Andreas Boschen, SESAR JU Giorgio Travaini, Europe's Rail JU Cian Ó Cuinneagáin, Cubic Telecom **Moderator:** Isabel Dedring, Arup **Rapporteurs:** Torsten Geißler, BASt; Ovidiu Dumitrache, Eurocontrol **Session Organisers:** Torsten Geißler, BASt; Ovidiu Dumitrache, Eurocontrol	Hall 8B
14:15 - 15:30	**Strategic Session 4.2 - Human-Machine Interaction in a multimodal context** Personalisation is a keystone for a new mobility culture. It is just as relevant for tailored information to assist the next step of a journey by public transport as it is for driver-assistance systems in vehicles. Essential features include comprehensible and reliable information at the right time, sensory support, scenario analysis, communication with the different users, and interaction with the other types of stakeholders affected by the trip s. In short, prediction mechanisms and support services need to be implemented into a very technology-oriented transport sector that faces many challenges. This includes incorporating cognitive knowledge. Regardless of where these systems are used they will change the behaviour of users. For example, from a maritime perspective it may introduce new distraction risks, for rail, digital ticketing can help to build a new mobility culture, and for road transport effective communication between motorized vehicles and vulnerable road users will be critical. The idea for this Strategic session is to discuss the essentials in Human-Machine-Interaction from a transport perspective and the need for new type of interfaces and the next steps to follow. This session starts with an introduction and is followed by a moderated panel discussion. **Speakers:** Prof Andrew Morris, Loughborough University Philip Hughes, Eurocontrol Ilse Harms, Dutch Vehicle Authority (RDW) Karin De Schepper, Inland Navigation Europe Mary Panou, Hellenic Institute of Transport, CERTH Prof Josef Krems, Chemnitz University **Moderator:** Wouter Van den Berghe, Tilkon **Rapporteurs:** Sonja Forward, VTI **Session Organisers:** Wouter van den Berghe, Tilkon; Margriet Van Schijndel, TU Eindhoven.	Hall 8D

14:15 - 15:30	**Strategic Session 4.3 - How to Achieve Transport Data Sharing?** This session addresses inefficiencies in the movement of people and goods caused by paper-based documents, fragmented information, and system silos. Policies and regulations, such as eFTI regulation, the Common European Mobility data space, and the Single European Sky framework, aim to address these challenges. However, diverse market structures, international transport, and a lack of standardized rules hinder data sharing. The session focuses on technological innovations for real-time information sharing, acknowledging varying digitalization maturity levels in the market. The key objective is to discuss how to achieve integrated, interoperable, and harmonized approaches, emphasizing the need for common datasets, governance for data sharing, and agreed-upon data and business models. **Speakers:** Isabelle Vandoorne, European Commission DG MOVE Nil Agacdiken, SESAR JU Christope Maurin, GEODIS Noel O'Connor, Dublin City University Philippe Wyssen, Europe's Rail JU Dominique Willems, Digital Container Shipping Association (DCSA) **Moderator:** Joost Vantomme, ERTICO **Rapporteurs:** Fernando Liesa, ALICE; Ovidiu Dumitrache, Eurocontrol **Session Organisers:** Tomas Ambra, ALICE; Ovidiu Dumitrache, Eurocontrol	Hall 2A

Special Sessions

Monday 15th April 2024

Time	Title	Room
14:00 - 15:15	**Special Session 1.1: Open Science in Transport Research – Where Do We Stand?** By increasing the wide dissemination, scrutiny and re-use of research, the Open SciBy increasing the wide dissemination, scrutiny and re-use of research, the Open Science (OS) movement aims at making scientific process and results more transparent and accessible at all levels and to everyone, for the good of science and society. OS policies have largely developed over the last years in the EU, and beyond. This session will discuss the state of play of OS in transport research from different perspectives (Policy maker, Publisher, Funding Agency, Researcher) as well as the challenges and opportunities from that OS brings to the transport research community. Ultimately it will explore how to strengthen the engagement of such community in implementing OS principles so to make it the new normal in transport research. **Speakers:** Elsa Lanaud (French Ministry of Ecological Transition) Jana Palinkas (Springer Nature) Dr Marion Boland (Science Foundation Ireland) Prof Frank Witlox (University of Ghent & ETRR Journal) Dr Ann Brach (Transportation Research Board) Prof Robin Lovelace (Institute for Transport Studies, Leeds) **Moderator:** Caroline Alméras (ECTRI)	Hall 8A-1
14:00 - 15:15	**Special Session 1.2: Inclusive and Sustainable Rural Mobility and Transport** The Barcelona declaration from 2023 has given a new impetus into development of rural mobility solutions; rural areas currently represent 83% of the EU and 30.6% of its population lives there. Across the EU, certain rural areas suffer from chronic isolation and higher costs for the transport of goods and services. This results in loss of cultural and economic dynamism, ageing population, and a strong dependence on individual transport. The session will look at rural mobility from various angles. **Organiser:** Rafal Stanecki, DG MOVE **Speakers:** Keynote**:** Senator Gerry Horkan (Irish Government Committee, Transport & Communications) **Panel Discussion:** Brendan Finn (EU project SMARTA-NET) Nina Nesterova (Breda University of Applied Sciences) Lottie Stainer (UITP) Marti Jofre (NEMI Mobility Solutions) Etienne Willame (Wallonia Public Service, Mobility and Infrastructures) **Moderator:** Isabelle Vandoorne (EC DG MOVE)	Hall 8A-2

14:00 - 15:15	**Special Session 1.3: User Acceptance: Key to Successfully Transitioning to the Future European Mobility System** European Mobility is in a phase of transition towards a smart and sustainable system, as envisioned by the European Commission and many other stakeholders. Various transition paths with their individual steps are conceivable for the different transport systems on European, national and regional level. User acceptance is key in these individual steps to make the whole transition a success. With a focus on road and rail, this session will aim at identifying best practices in understanding user preferences and their evolution, in designing future mobility solutions accordingly and embedding individual measures into longer-term transition paths towards smart and sustainable mobility. **Speakers:** Tamara Djukic (ERTICO) Laurianne Krid (FIA) Marieke Martens (TU Eindhoven) Christa Reicher (RWTH Aachen University) Karen Vancluysen (POLIS) **Moderator:** Martin Russ (AustriaTech)	Hall 8A-3
14:00 - 15:15	**Special Session 1.4: How Can Research and Collaboration Support Cost-effective Solutions for Zero-emission Heavy-Duty Vehicles** The European Commission agreed on strengthening the CO2 emission standards for heavy-duty vehicles (HDV). The new target is an emission reduction of -45% by 2030. Massive investments in new truck technologies and infrastructure will be necessary to reach these targets. This session, organised by EC-JRC, ALICE, ERTRAC and 2ZERO, focusses on the various aspects needed to make Zero Emission HDVs (ZE HDV) reality. Research, standardization, stakeholder requirements, R&I projects (AEVETO cluster) and financial assessments are crucial for ZE-HDV value chain deployment. A panel discussion with relevant representatives of the ZE-HDV ecosystem will be held. The session aims to identify the current barriers and future research needs essential for ZE-HDV adoption. **Speakers:** Manasa Sridhar (IVECO Group) Carlo De Grandis (EC DG CLIMA) Billy Hann (Dublin Bus) Thomas Asp (CEDR) Andrea Condotta, Gruber Logistics Bidisha Ghosh, Trinity College Dublin **Moderator:** Jette Krause (EC JRC)	Hall 8A-4
14:00 - 15:15	**Special Session 1.5: Sustainable Urban Mobility Solutions for Climate-neutral and Smart Cities** This session will be a “policy towards implementation” session and will explore if and in what ways urban mobility is the key driver for achieving climate neutrality in cities. It will start from research and policy considerations and then support this hypothesis with concrete data and examples of pilots and demonstrations implemented in/by cities. The session aims to demonstrate that we will not be able to achieve climate-neutral cities if we do not achieve CO2 reductions from/in urban transport. Implementing solutions in domains like energy efficiency (in buildings) and greening/NBS can definitely support but without reductions of CO2 emission in urban transport climate-neutral cities will not be attained. In this context we will also touch upon aspects related to land-use and transport panning, urban public space design and mobility behaviour and patterns, and comment on how these determine/influence the city’s transport system sustainability. **Speakers:** Keynote: Octavia Stepan (CINEA) Clemence Cavoli (University College London) Sergio Fernández Balaguer (EMT Madrid) Andreas Piller (ICLEI) Brendan O’Brien (Dublin City Council) Lean Doody (Arup) **Moderator:** Salima Abu Jeriban (CINEA)	Hall 8A-5

Tuesday 16th April 2024

Time	Title	Room
09:45 - 11:00	**Special Session 2.1: Air Traffic Management: 20 years of the Single European Sky** This special session is dedicated to a pivotal aspect of European aviation: Air Traffic Management and Control within the framework of the Single European Sky initiative. This focused panel discussion will bring together experts and practitioners to delve into the intricate challenges and innovative solutions shaping the future of air traffic management in Europe. Participants will explore the harmonization efforts essential for achieving a Single European Sky, discussing technological advancements, policy developments, and operational strategies aimed at enhancing airspace efficiency, safety, capacity and environmental sustainability. The session aims to review the progress achieved since the establishment of the Single European Sky with its first legislative package in March 2004 and foster a dynamic exchange of ideas, encouraging collaborative approaches to overcoming the complexities of managing Europe's increasingly crowded skies. **Speakers:** Andreas Boschen, SESAR JU Peter Kearney, AirNav Thomas Fowler, RyanAir Marek Bekier, ACR **Moderator:** Prof Marina Efthymiou, DCU	Hall 8A-1
09:45 - 11:00	**Special Session 2.2: Waterborne Passenger Transport – an Essential Transport Mode in Outer Regions** In Europe, hundreds of ferries transport passengers and goods between cities, regions and countries, and in multiple cases these ferries are the only mode of transport to and from a certain region (like the large number of islands in the Mediterranean). Without these ferries, villages are without supplies of goods and connections with the rest of the world. Ferries thereby play an essential role in the daily life of EU citizens. The age of the ferry fleet in Europe is relatively old, and thereby there is a need to retrofit or renew the European ferry fleet as soon as possible, in order to be able to meet the 2030 and 2050 targets as laid down in the European Green Deal. However, the choice of fuel is not a one-size fits all. Some ferries are sailing on fixed routes between two ports, whilst others start from a certain port, call several ports before coming back to the first port. In all ports being called, the same type of sustainable alternative fuel or energy carrier should be available. On the other hand, retrofitting or renewing the European ferry fleet will offer a unique opportunity to the broader waterborne transport sector in Europe: the ships can be built in Europe, equipped with European maritime equipment, and they will sail in Europe. A truly unique European cooperation, which should be kick started as soon as possible to ensure zero-emission operations when transporting passengers and goods. The challenges and opportunities, as well as the potential way forward, including RD&I needs, will be discussed during this session. **Speakers:** Pieter Huyskens, Damen Shipyards Maria Boile, CERTH and University of Piraeus **Moderator:** Jaap Gebraad (Waterborne)	Hall 8A-2

09:45 - 11:00	**Special Session 2.3: Innovation in Urban Logistics: Public and Private Sectors Thriving Together** The session aims to share successful experiences and lessons learnt in urban logistics from EU-funded R&I projects and create a common vision of using innovative solutions for zero emission urban freight transport. Urban logistics has faced unprecedented challenges in recent years. A proactive approach to address future challenges is therefore needed. Those projects have been engaging with city authorities, logistics service providers, and innovation developers to implement living labs. Those living labs enable business and cities thrive together to use innovative solutions, such as digital twins, Physical Internet, zero emission vehicles, to increase efficiency and achieve zero emission freight transport. **Speakers:** Paola Cossu (FIT Consulting & ALICE) Ioanna Fergadiotou (Inlecom Systems) Manon Levrey (Interface Transport) Angela Nuñez (Correos & SENATOR project) Sergio Fernández Balaguer (Empresa Municipal de Transportes de Madrid) Raffaele Vergnani (POLIS) **Moderator:** Octavia Stepan (CINEA)	Hall 8A-3
09:45 - 11:00	**Special Session 2.4: Sustainable and Smart Mobility Strategy: What Role for Rail Traffic Management?** The objective of this session will be to take stock of evolution of developments for a common European rail Traffic Management system. Where are the bottlenecks, how can digitalisation support innovation and increase capacity of the rail network and ensure a fast and efficient handling of disruptions. In addition, this session will also address synergies between rail, road and air traffic and will highlight links between transport modes and what elements are missing. This session aims to discuss possible approaches and benefits for an integrated multi-modal (air, rail and roads) network backbone in Europe: · What is the current status of the Rail Traffic Management System in Europe? · What is the current status of the Air Traffic Management System in Europe? · What is the current status of the Road Traffic Management System/Intelligent Transport System in Europe? · What are the capabilities and aspects for integrating air, rail and roads traffic management systems to support a customer-centred, integrated multi-modal transport system in Europe. **Speakers:** Rolf Gooβmann (HaCon, Germany) Mark Patterson (US Federal Railroad Administration) Jerome Delmeulle (SESAR JU) Dr Paraskevi Michalaki (National Highways, UK) **Moderator:** Prof Stefano Ricci (Sapienza University)	Hall 8A-4
09:45 - 11:00	**Special Session 2.5: Harmonizing Global Efforts for Decarbonizing Transport Systems with the Global South** This session will explore the potential for the harmonization of research and innovation for the decarbonisation of transport with third countries, echoing the Team Europe approach, and taking into account development cooperation and climate action programmes, in order to maximize impact. It aims to discuss approaches and means to ensure closer coordination with the United States to enable collaborative efforts in decarbonising transport systems in developing countries (Asia, Latin America and Africa), also through closer coordination with national action (focussing on road and urban transport). **Speakers:** Patrick Mercier-Handisyde and Maria Carbone (European Commission) Alasdair Cain (US DoT) **Keynote**: Oliver Lah (UN-Habitat Collaborating Center) **Panel Discussion:** Orla McCarthy (ITF/OECD) Jean-Luc di Paola Galloni (Valeo/ERTRAC) Dan Sperling (UC Davis) **Moderator:** Dr Gereon Meyer (VDI/VDE Innovation + Technik GmbH)	Hall 8A-5

09:45 - 11:00	**Special Session 2.6: Infrastructures and Biodiversity Facing a Convergence of Challenges: the Role of Research and Innovation in Supporting Change** Besides climate change, the decline of biodiversity is the second major environmental challenge facing the transport sector today, as the whole society. But so far, the latter has received much less attention, including in the transport sector. Transport impacts on biodiversity are known, through the destruction and fragmentation of natural habitats for infrastructure construction and through the disruption of biological cycles due to diverse effects of use. Improvements can be brought in the way transport infrastructures are planned, designed, constructed, adapted, operated and decommissioned. Some can be applied in the short term while some others need research and development. The vision brought by the reflexion for more biodiversity-friendly transport infrastructure is not restricted to improving the avoidance/mitigation/compensation approach but regards integrated land planning where the role transport infrastructure could play for biodiversity is considered through contribution to green infrastructure, to the delivery of ecosystem services, conservation of species, prevention and mitigation of ecological pressures in the landscape. Priorities and the way to implement this vision will vary according to the various stakes, needs and risks faced by the different European regions. **Speakers:** Vincent O'Malley (Transport Infrastructure Ireland) Yannick Auttret (MTES) Karin de Schepper (Inland Navigation Europe) Rafal STANECKI (EC-DG MOVE) Hilde Eggermont (BiodivERsA) Elke Hahn (IENE) **Moderator:** Thierry Goger	Hall 8A-6
09:45 -11:00	**Special Session 2.7: Active Travel in Urban Areas** The implementation of walking, wheeling and cycle infrastructure in urban areas is often challenging with opposition from stakeholders, who may be fearful of the impacts of the changes, to those that oppose the reallocation of road space away from the motor car. This session explores the state of walking and cycling in cities, emphasising the need to improve the quality of active travel facilities. It will look at how status quo bias acts as an obstacle to the rapid role out of these facilities. Finally, the outcomes from completed active travel programmes will be outlined with presentations followed by a discussion. **Speakers:** Philippe Crist (International Transport Forum) Shane Timmons (Economic & Social Research Institute) Pete Lunn (Economic & Social Research Institute) Sarah Rock (Technological University Dublin) **Moderator:** Joe Seymour, National Transport Authority	Dodder 5B

14:30 - 15:45	**Special Session 3.1: Urban Air Mobility – From Concept to Reality** As the demand for the use of unmanned air vehicles in urban settings grows, so does the need to ensure unlimited and safe cohabitation of all airspace users in our skies. U-space is a set of new services relying on a high level of digitalisation to support the integration of drones: U-space. This session will put the spotlight on some of the projects being developed by SESAR JU partners, with the support of CINEA, and explore what's needed to realise the full deployment of initial U-space services for drones at multiple sites across Europe. The SESAR 3 JU U-space research programme is by definition at the leading edge and has already achieved many European firsts. In 2022, SESAR demonstrations brought a new first to Europe with electrically powered vertical take-off and landing flights capable of carrying passengers, which will be the future air taxis. The deployment of the first set of U-space services is an important stepping-stone towards the full realisation of the vision for IAM foreseen in the European Commission's recently released (29 November 2022) Drone Strategy for Europe 2.0. This session will pool together leading figures from the European drone community as well as SESAR JU and CINEA urban air mobility research projects to show progress and discuss future research requirements. The session will close with a panel discussion aimed at exploring benefits to society, as well as the technical and performance requirements that are needed for a highly digitalised system to meet society's expectations for safety, security, sustainability and social drone acceptance. **Speakers:** **Keynote**: Bobby Healy Founder, Manna Drone Delivery Wassim Derguech (Future Mobility Campus Ireland) Ilyana Simeonova (EUROCONTROL) Marina Jiménez Navarta (EUROCONTROL) **Moderator:** David Batchelor (SESAR JU)	Hall 8A-1
14:30 - 15:45	**Special Session 3.2: Greening of Construction of Transport Infrastructure** The construction of transport infrastructure is a significant contributor to global carbon emissions due to the persistent use of carbon intensive materials. There is an urgent need to address the frameworks that continue to reward these materials, and this requires new tools to support this change. Critical questions that remain open include: · How do we evaluate new materials with reduced embodied carbon? The standard performance frameworks are often founded on traditional high-carbon materials and in some cases act as a barrier to change. · How do we decide the appropriate framework for evaluating transport infrastructure projects? Life cycle assessment (LCA) is a powerful tool that can help make informed choices, but at what scale should it be applied? LCA can help to identify the potential for circularity and decarbonisation of transport infrastructure, by analysing the material flows and environmental impacts at different scales, from the individual asset to the network or system level. · Key to any change is reliable information, and data management is a major challenge due to the fragmented nature of the construction sector internationally. How can we make robust decisions on construction contracts, and be confident in the data in which we are working with? How do we do this in a way that supports the wide array of SMEs that operate in the construction sector? **Speakers:** **Keynote:** Patrick McKenna (Missouri DoT) Kyle Moore (Department of Transport, Ireland) Miltiadis Kontogeorgos (RINA) Erisa Myrtja (Ecocem Global) **Moderators:** Ciaran McNally (UCD)	Hall 8A-2

14:30 - 15:45	**Special Session 3.3: How can Large-scale Demonstration Accelerate CCAM Adoption in European Logistic Chains** Several CCAM demonstration projects are ongoing for both logistics and passenger transport and the next step will be large-scale demonstration, which should lead to real-life implementation cases of viable CCAM use cases. During this Special Session the lessons learned from CCAM industry and relevant R&I projects will be discussed on how to achieve implementation cases beyond demonstration and R&I projects. In addition, the future view of CCAM in logistics will be discussed. **Speakers:** Andreas Allstrom (Einride) Mats Rosenquits (Volvo) Mads Skovsgaard Rasmussen (DFDS) Hamid Zarghampour (CEDR/Trafiverket) Andrea de Candido (EC DG RTD) Technology provider, speaker TBC **Moderator:** Ragnhild Wahl (ITS Norway)	Hall 8A-3
14:30 - 15:45	**Special Session 3.4: Ports as Energy Hubs, a Key Role in the Transitions to a Zero-emission Society** Europe's ports are vital gateways, linking its transport corridors to the rest of the world. 74% of goods entering or leaving Europe go by sea. Ports play an equally important role to support the exchange of goods within the internal market and in linking peripheral and island areas with the mainland of Europe. Ports are not only great for moving goods around, they also constitute energy hubs for conventional and renewable energies. 400 million passengers embark and disembark in European ports every year. Ports generate employment; 1.5 million workers are employed in European ports, with the same amount again employed indirectly across the 22 EU maritime Member States. The transition to zero-emission transport, has an impact on ports as well. On the one hand, ports need to ensure zero-emission operations, and cater the infrastructure for supplying sustainable alternative fuels to a variety of modes of transport. Thereby, ports are becoming energy hubs, linked with the fact that in ports sustainable alternative fuels are being produced. However, this entails major challenges for ports, notably, which type(s) of fuels to invest in, how to deploy infrastructure, how to ensure safe storage and use of sustainable alternative fuels etc. This session will dive into these questions, including the RD&I activities needed to foster the role of ports as energy hubs. **Speakers:** Annaleena Mäkilä (Finnish Ports Association) Eero Lehtovaara (ABB Marine & Ports) Josep Sanz (Fundación Valencia Port) Sotirios Theofanis (MARLOGMIND PC, Greece) **Moderator:** Jaap Gebraad (Waterborne)	Hall 8A-4
14:30 - 15:45	**Special Session 3.5: Revolutionizing Higher Education and Research in Transportation: AI-enhanced Curriculum Design and Implementation** Tackling the intricate challenges posed by artificial intelligence (AI) in transportation studies, this session explores how institutions can adapt curricula for a workforce proficient in applied AI skills. The infusion of AI into the training of transportation practitioners and researchers marks a transformative paradigm shift, fundamentally reshaping the labour market and education curriculum. This session showcases successful AI-enhanced curriculum examples, fostering educator-researcher collaboration on innovative teaching methods and industry partnerships. Overall, this session will contribute to well-prepared the workforce for the dynamic AI-driven future of transportation, bridging the gap between education and industry needs. **Speakers:** Dr Mahdi Zargayouna (Université Gustave Eiffel) Prof Mihail Savrasovs (Transport Telecommunication Institute (TSI), Latvia)	Hall 8A-5

	Prof Brian Caulfield (Trinity College Dublin) Prof Dmitry Pavlyuk, (Transport and Telecommunication Institute (TSI), Latvia) Prof George Yannis (National Technical University of Athens) **Moderators:** Prof I. Yatskiv (Transport & Telecommunication Institute (TSI), Latvia) & Prof George Yannis (National Technical University of Athens)	
14:30 - 15:45	**Special Session 3.6: Railway Research and Innovation Agenda** Railway is already the most energy-efficient mode of transport, being largely electrified. Even if it cannot address every mobility need, an increase of its market share and its role in mobility remain essential and a real game changer for a sustainable future. Building upon on the results of the Shift2Rail partnership, the promising results of the Europe's Rail partnership under the umbrella of the Horizon Europe framework programme, the Rail Research Innovation Agenda (RRIA) is ERRAC's updated roadmap for transforming rail into an even more sustainable, more capable, more flexible, more performing system at the service of multimodality. The RRIA: · addresses high level stakeholders · contains high level technology approaches, necessary to be addressed in future funding schemes, lays out innovation activities until 2031 (end of ERJU) and later, · is the result of a balanced elaboration between Railways, Research organizations and supply industry, · sets customers and users view in the centre, · continues and updates the ERRAC SRIA and Manifesto. **Speakers:** **Introduction**: Ralf Kaminsky (Siemens Mobility) Giorgio Travaini (Europe's Rail Joint Undertaking) Mark Patterson (US Federal Railroad Administration) Juliana Buelvas (Alstom) Robert Ampomah (Network Rail) Andrea Gentili (EC DG RTD) **Wrap-up:** Davide Zamboni (ERRAC & SBB) **Moderator:** Marion Berbineau (Université Gustave Eiffel))	Hall 8A-6
14:30 - 15:45	**Special Session 3.7: Advancing Resilience of Transport Operations and Infrastructure** The session will address two fields of work linked to transport resilience: operations and infrastructure. The first part of the session will focus on how the research and innovation (and our projects) contribute to promoting resilience in the transport network and operations. We would pay particular attention to disruptive events, such as weather hazards (increasing because of climate change) and big events. We will select some relevant projects to be involved from our traffic management portfolio. The second part of the session will deal with infrastructure resilience and address inspection, maintenance, and upgrade of Europe's aging infrastructure. It will be focused on the use of innovative tools such as automation and robotisation, including the use of drones and AI. **Speakers:** Federico di Gennaro (Autostrade per l'Italia) Tanja Waaser (Transport Scotland) Jose Solís Hernández (CEMOSA) Rade Hajdin (Infrastructure Management Consultants GmbH) Athina Tympakianaki (AIMSUM) Tiago Delgado Dias (A-to-Be) **Moderator**: Thiago Tavares (CINEA)	Dodder 5B

Wednesday 17th April 2024

Time	Title	Room
09:45 - 11:00	**Special Session 4.1 – Collabat Battery Projects Joining Forces to Support Uptake of Sustainable Green Mobility** This session organized by the Collabat Cluster provides an overview on how research projects like H2020 can support to overcome some of the challenges associated with the future of the electric vehicles sector that fundamentally depends on its technological capacity to develop more cost- efficient batteries; e.g. lighter, more energy dense, reduced charging time, increased range and increased lifetime. Short presentations from the four projects will highlight some innovative solutions that even after the end of the projects will contribute to make this uptake of green e- mobility happen in EU. Plus, extensive panel discussion to engage with the audience. **Speakers:** **Keynote**: Edel Sheridan (BEPA & Batteries Europe) Tomas Jezdinsky (ECI & the Collabat Cluster) Irem Sapmaz (Yesilova & ALBATROSS Project) Corneliu Barbu (University of Aarhus & HELIOS Project) Eduardo Miguel (Ikerlan & LIBERTY Project) Eduard Piqueras (Eurecat & MARBEL Project William Schoonover (US PHMSA)	Hall 8A-1
09:45 - 11:00	**Special Session 4.2 – Prescriptive and Predictive Maintenance in the Transport Landscape** In the rapidly evolving landscape of multimodal transportation, the intersection of technology and maintenance practices is becoming increasingly pivotal. Traditional approaches to maintenance are being reshaped by the integration of prescriptive and predictive methodologies, bringing forth a new era of efficiency and reliability. · Significance of Advanced Maintenance: the critical role of efficient maintenance in ensuring safety, reliability, and overall sustainability in the evolving transportation landscape · Transformative Landscape: the transformative nature of maintenance strategies. Emphasize the focus on prescriptive and predictive methodologies. **Speakers**: Sébastien Denis (Europe's Rail JU) Angela Di Febbraro (University of Genova) Mats Rosenquist (Volvo Group) Colin Sykes (Department for Infrastructure, Northern Ireland) Jude Carey (Irish Rail) Noemi Jimenez (CEMOSA) **Moderator:** Henk Samson (Strukton)	Hall 8A-2
09:45 - 11:00	**Special Session 4.3 - Predicting and Avoiding Road Crashes with AI - an Opportunity for International Cooperation?** Vehicle- and infrastructure-based sensors, mobile devices and wearables acquire larger and larger amounts of data in our road transport system. The analysis of this big data by artificial intelligence (AI) can support the prediction of safety-critical situations and finally enable taking countermeasures in real time. This session will present highlights in the use of AI for these purposes and discuss approaches to overcome existing challenges, e.g. in terms of the data sharing. It will derive needs for research and opportunities for international cooperation in this context, both with low- and middle income countries and technological leaders, such as the US. **Speakers:** Brian Cronin (US DOT) Véronique Feypell (ITF, OECD) Richard Owen (Agilysis) George Yannis (National Technical University of Athens) Mikael Ivari (City of Gothenburg)	Hall 8A-3

09:45 - 11:00	**Special Session 4.4 - Infrastructure Support for CCAM (Cooperative Connected Automated Mobility) – Digital Infrastructure, Connectivity, Remote Management** The session aims to present the key evolving cornerstones of PDI (Physical, Digital and Communication Infrastructure) support for CCAM (Cooperative Connected Automated Mobility), focusing on digital infrastructure, as well as on remote management or teleoperation. The session will expand across plenary speeches from experts presenting the evolution of classification of PDI support for CCAM, the focal enabling role of digital and communication infrastructure specifically in that, focusing on multi-connectivity (from cellular to short range ITS-G5) and Digital Twins as well as the extension of the CAVs (Connected and Automated Vehicles) ODD (Operational Design Domain) through and due to infrastructure support, that is reflected in systematic and elaborate taxonomies and scenarios build-up processes. Finally, the session part on remote management - one of the most distinct services of digital (and communication) infrastructure support for CAVs - representing an upcoming new form of vehicle control, aims at reviewing current research needs from the European perspective, presenting the work of 30+ German researchers who recently reviewed the current status of research and formulated open research questions. The plenary speeches will aggregate the know-how of key experts in the area, orchestrating and being involved in the most important running initiatives in the domain (AUGMENTED CCAM project, PoDIUM project) and will conclude with a round table that will focus on the gaps that still remain to be fulfilled towards a cost-efficient and seamless support of infrastructure for CCAM on a Pan-European scale, the data exchange models that need to be put in place, along with the collaborative mechanisms on technological, operational and governance layers that need to be established, as well as the recognition of a holistic and interdisciplinary approach for remote management of CAVs. **Speakers:** Maria Gkemou (CERTH/ETRA) Lazaros Gkatzikis (ICCS) Léo Mendibouren (Université Gustave Eiffel) Lena Plum (BAST) Followed by a Panel Discussion **Moderator:** Markus OESER (FEHRL/BAST)	Hall 8A-4
09:45 - 11:00	**Special Session 4.5 - Innovations Supporting Waterborne Greening and Decarbonisation** The purpose of this session is to showcase close to market innovations supporting waterborne greening and decarbonisation. These projects will cover wind, alternative fuels, fuel cells and electrification. The session will cover various solutions needed for decarbonisation of all types of maritime operations from ferries to deep sea operations. Speakers from research, industry (equipment manufacturers) and ship owners will be brought together to discuss how the greening transition is taking place. The session would start with a policy scene-setter. **Speakers:** Tom James (BAR technologies & CHEK Project) Sebastian Verhelst (Ghent University & FASTWATER Project) Sebastiaan Bleuanus (Wärtsilä & AMMONIA2-4 Project) Endika Bilbao (Ikerlan & HYPOBATT Project)	Hall 8A-5

09:45 - 11:00	**Special Session 4.6 - Collaborative Planning of Infrastructure and Spatial Development to Meet the Emerging Challenges** Transport infrastructure and spatial development are intrinsically related and require collaborative planning by the parties involved at local, regional and national levels. Various European studies have been conducted recently. The collaborative planning approaches developed, prove to be important for more sustainable development by focusing on issues of multimodality, environmental challenges and energy transition in (especially) urbanized regions. This session will discuss the relevance for collaborative planning in following emerging themes: · New political and economic patterns · A social inclusive approach towards mobility infrastructure · Ecology inclusive asset development · Vital infrastructure development · Mature infrastructures in a dynamic context. **Speakers:** **Keynote**: Prof Jos Arts (University of Groningen) Peter Staelens (EUROCITIES) Niall Cassidy (Department of Transport, Ireland) Prof Tadgh O'Mahony (University College Dublin & Turku School of Economics) Prof Charlotta Faith-Ell (Mid-Sweden University) Einar Schuch (Swedish Transport Administration) Seppo Serola (Finnish Transport Infrastructure Agency)) **Moderators:** Steve Phillips (CEDR)	Hall 8A-6
09:45 - 11:00	**Special Session 4.7 - Decarbonisation of Hard to Abate Sectors** This session is organised following the ITF's "Transport Decarbonisation: Driving Implementation" project funded by the European Commission that brought together ITF members over two years in three common interest groups to discuss and align on decarbonisation pathways for heavy-duty vehicles, aviation, and maritime shipping (Summary report (https://www.itf-oecd.org/dtimplement). The session aims to present the results of the DT Implement project and focus on innovation/R&I aspects, possibly elaborating on how R&I actions can help policy makers to take decisions and accelerate the transition in these hard-to-abate sectors. For example, it will be presented/focussed on the R&I recommendations and findings related to the common priorities in research and innovation that will support the decarbonisation of aviation and shipping/maritime sectors only and facilitate the deployment and commercialization of relevant solutions. **Speakers:** **Opening words:** Young Tae Kim (ITF/OECD Secretary-General) **Keynote**: Orla McCarthy (ITF/OECD) **Round table discussion:** Rosalinde van der Vlies (EC DG RTD) Sebastien Dubois (Clean Aviation JU) Jaap Gebraad (Waterborne) Alasdair Cain (US DoT) Orla McCarthy (ITF/OECD) **Moderator:** Young Tae Kim (ITF/OECD)	Dodder 5B

14:30 - 15:35	**Special Session 5.1 - Bridging Roads Infrastructure and Vehicles: Synergies in European Transport Research** This session will focus on how road infrastructure research (Transnational Research Programme of CEDR) and vehicle-related research (represented by Horizon Europe Partnership CCAM) can impact each other. Attendees may gain insights into strategic directions for road infrastructure development, safety improvements, and the impact of digitalisation and automation on traffic flow management. This session is an opportunity to connect with professionals, researchers, and experts in the field, potentially leading to future collaborations in research and development. **Speakers:** Hamid Zarghampour (Trafikverket, Sweden) Kristof Rombaut (AWV, Belgium) Cormac Synnott (TII, Ireland) Suzanne Meade (TII, Ireland) Armin Gräter (BMW, Germany) Mats Rosenquist (Volvo Group, Sweden) Hiranao Kawashima (Keio University, Japan) **Moderator:** Serge Van Dam (Rijkswaterstaat, Netherlands)	Hall 8A-1
14:30 - 15:35	**Special Session 5.2: Decarbonizing Freight Transport and Logistics by Increasing the Use of Waterways** Promoting and streamlining the wide adoption of inland waterway transport (IWT) and short sea shipping (SSS) solutions are critical levers for transport, logistics and supply chain decarbonization. According to the Sustainable and Smart Mobility Strategy , the anticipated rise of transport volumes via inland waterways (IWWs) and SSS is 25% by 2030 and 50% by 2050. However, while SSS and IWT can concretely contribute to greening freight transport in Europe, the predicament of modal shift remains. Vessel automation is expected to play an important role as an enabler to address this challenge by creating highly efficient and competitive freight feeder loop services for SSS and IWT, while at the same time deploying smaller zero-emission automated concept vessels that can safely and competitively navigate waterways that are not currently used for commercial freight transport, including urban freight transport. To promote the early adoption and motivate stakeholders to invest in these technologies, the integration into supply chains and logistics operations is a must and will be the lever to enable this transition. During this session, knowledge and outcomes of the previous projects AEGIS, MOSES and AUTOSHIP will be presented, while the ongoing efforts of SEAMLESS, FOREMAST and AUTOFLEX and their respective approaches to address the needs of freight and logistics stakeholders through business models and opportunities will be addressed. By attending this session, all participants will get the chance to become familiarised with novel use cases, innovative value propositions, and disruptive business models relevant to freight and logistics transport stakeholders such as shippers, freight forwarders, and intermodal transport companies. In addition, industry stakeholders such as ports, terminals, and operators will get profound insights on opportunities and requirements for further development of these solutions. **Speakers:** Jorge Miguel Lara López (Fundación Valencia Port) Cyril Alias (DST – Development Centre for Ship Technology and Transport) Marco Molica (PNO Group) Jeanett Bolther (PNO Group) **Moderator:** TBC	Hall 8A-2

14:30 - 15:35	**Special Session 5.3 - Best Practices and Synergies to Deploy EU Research & Innovation with CINEA and European Transport Partnerships - Towards a Common EU Transport Area** The EU Framework Programmes for Research &Innovation (R&I) support pre-competitive research and innovation to advance transport technologies and systems. In Horizon Europe (2021-2027) Transport, Energy and Climate R&I counts with € 15 billion in EU funding. Such R&I investment is co-programmed and leveraged via Partnerships between the European Commission and Transport stakeholders. The resulting projects are implemented by the European Climate, Infrastructures and Environment Agency (CINEA) or by Joint Undertakings (JUs). Partnerships in Horizon Europe act as pivotal alliances that bring together a diverse array of stakeholders, including research organizations, industry leaders, and policymakers. Partnerships play a crucial role in complex societal challenges, such as sustainable mobility, digitalization, and climate change mitigation. Horizon Europe Transport Partnerships representatives will share valuable insights into their governance models, achievements, and strategies for next phases and final deployment. This collaborative exchange aims to provide a comprehensive view of best practices, lessons learnt and study cases to cultivate innovation - in and across Horizon Europe, its partnerships and EU deployments programmes - towards a common transport area. **Speakers:** **Keynote**: Paloma Aba Garrote (CINEA) Jaap Gebraad (Waterborne) Andreas Boschen (SESAR JU) Marzena Jougounoux (CCAM Partnership) Jesse Terry (BATT4EU Partnership) Miroslav Haltuf (Europe's Rail JU) **Moderator:** Andrea Gentili (EC DG RTD)	Hall 8A-3
14:30 - 15:35	**Special Session 5.4 - Electrical Road Systems** This session discusses recent advances in ERS and aims to provide a technology neutral discussion to conference delegates. The session will introduce the large panorama of solutions available to decarbonize road transport, with a clear focus on electrification. The discussion will expose the main challenges and conditions for implementing ERS on a large road network (e.g. Europe, North America, etc.) and delegates will receive reports on the experiences and trials/studies of the most advanced countries in this respect (France, Germany, Italy, Sweden, USA). The session will also include a panel discussion that will allow input from infrastructure owners/operators, motorway companies, an OEM and an energy provider. **Speakers:** Britta Sommer (VDE/VDI, Germany) Bernard Jacob (Universite Gustave Eiffel) Dario Zaninelli (Politecnico di Milano) Roger Ullström (Trafikverket) **Panel Discussion:** Mats Alakula (University of Lund) Thierry Goger (FEHRL) Lionel Grin (Vinci Autoroutes, France), Lina Nordin (VTI, Sweden) Guido Sacchetto (EC DG RTD) **Moderator:** Kelly Regal (FHWA) & Jan Pettersson (Trafikverket)	Hall 8A-4

14:30 - 15:35	**Special Session 5.5 - Driving Towards Sustainable Logistics: Facilitating Energy Transition in Logistics** This session focuses on promoting sustainable logistics by exploring innovative ways to facilitate the energy transition. Discussions will include alternative fuels, electrification and smart logistics systems. The experts on the panel will provide a comprehensive and nuanced understanding of sustainable logistics systems, highlighting their potential to promote a more efficient and sustainable transportation ecosystem. The session will discuss and prioritize technologies and explore the feasibility of hydrogen, batteries and intermodal transportation solutions. The aim is to discuss progressive initiatives that will drive a greener future for the logistics sector. **Speakers:** Georgia Ayfantopoulou (CERTH) Wolfgang Backhaus (Rupprecht Consult) Sergio Barbarino (Procter & Gamble, Belgium) Prof Verena Ehrler (IESEG School of Management in Lille and Paris, France) Prof Eoin Plant (Edinburgh Napier University & Chartered Institute of Logistics & Transport) **Moderator:** Orestis Tsolakis (CERTH)	Hall 8A-5

Thursday 18th April 2024

Time	Title	Room
09:45 - 11:00	**Special Session 6.1 - Feeding Education with Future Challenge-based Research on Cities** In this session several representatives of the European university's alliances will be involved in relation with the topic of research challenges for sustainable, safe and resilient cities to share their experiences and discuss on how the knowledge development will benefit to the students. Two European networks (FEHRL and POLIS) representatives will also provide insights from their activities of sharing research outcomes with various stakeholders, including cities and regions. First results of the WIDENING project InCITIES will be presented, with a particular focus on a proposed model to develop Learning by Doing training session based on research activities. Indeed this session is aligned with the European Strategy for Universities, and more particularly the following statements: · European Universities can better solve societal challenges by pushing further the boundaries of higher education transnational cooperation. They strengthen quality and relevance for future-proof skills, equip young people, lifelong learners and researchers with the right competences and skills for the green and digital transitions and for becoming the innovators and entrepreneurs of tomorrow, while having a positive impact on their innovation ecosystems and communities. · Universities have a unique position at the crossroads of education, research, innovation, serving society and economy: they play a critical role in achieving the European Education Area (EEA) and the European Research Area (ERA), in synergy with the European Higher Education Area. Through strong partnerships in the EU and across the globe and building on the cumulative asset of education systems and research networks, they are key actors to promote the European model in line with EU's interests and values. · Strengthen sustainable competitiveness: Skills and lifelong learning are crucial for long-term and sustainable growth, productivity and innovation and therefore a key factor for the competitiveness of businesses of all sizes, in particular small and medium-sized enterprises (SMEs). Providing people with the right skills allows them to work more effectively and take advantage of advanced technologies. **Speakers:** Carlo Federico dall'Omo (Università Iuav di Venezia) Yannick Cornet (University of Zilina) Davide Lo Presti (University of Palermo) Lorraine D'Arcy (TU Dublin) Ivo Cre (POLIS) Thierry Goger (FEHRL) **Moderators**: Agnès Jullien (Université Gustave Eiffel) & Tatiana Kováčiková (University of Zilina)	Hall 8A-1

09:45 - 11:00	**Special Session 6.2 - Integrated Air and Rail Network for a Sustainable and Multimodal Transport System** In order to satisfy the needs of the European citizens, we must think multimodal and move away from modernising transport modes in isolation of one another. European citizens are looking forward to benefit from an optimised, efficient, affordable and comfortable door-to-door mobility. Multimodal, customer-centric, efficient and sustainable, shared-mobility solutions, fully integrating different modes of transport, in urban and rural environments, are essential components for a smarter and more sustainable mobility in Europe. This joint session, organised by Europe's Rail Joint Undertaking and SESAR Joint Undertaking, will showcase research projects from both air and rail transport sectors and discuss the steps needed to speed up the delivery of a multimodal European transport system. The session will have a particular focus on integrated European traffic management systems, as well as new concepts for train stations and airports as connecting hubs, supported by advanced artificial Intelligence solutions, fuelled by seamless data exchange, automation, connectivity and drones at European and regional levels. **Speakers:** Erik Watzeels (SESAR JU) Marika Lombardi (Aeroporti di Roma) Ismini Stroumpou (Sparsity Technologies) Lars Deiterding (HaCon Ingenieurgesellschaft mbH) **Moderator:** Jerome Delmeulle (SESAR JU)	Hall 8A-2
09:45 - 11:00	**Special Session 6.3: Success Factors and Added Value of International Cooperation in the Context of Inclusive CCAM Services – Learnings from Large-scale Demonstration Projects in the EU & Japan** This session explores the nuanced realm of automated paratransit services in the context of Connected and Cooperative Automated Mobility (CCAM). It will gather experts from the European Union, Japan and the US, fostering an in-depth comparison of success factors worldwide. Delving into innovative strategies, regulatory frameworks, and technological advancements, participants will gain insights into the diverse approaches that drive cost- efficient and inclusive automated shared mobility solutions. The goal of the session is to unravel the complexities of CCAM on a global scale, promoting collaborative dialogue and cross-cultural understanding within the realm of transformative transportation research. **Speakers:** Andrea de Candido (EC DG RTD) Jane Lappin (Bluedoor Strategy and Research) Manabu Umeda (University of Tokyo) John McSweeney (UITP) **Panel Discussion:** Jane Lappin (Bluedoor Strategy and Research) Stephane Dreher (ERTICO) Maria Gkemou (CERTH/ETRA) Lars Abeler (DB Regio) Takahiko Uchimura (University of Tokyo) **Moderator:** Dr Carolin Zachäus (VDI/VDE Innovation + Technik)	Hall 8A-3

09:45 - 11:00	**Special Session 6.4 - The Support of Road User Behaviour Analysis for Road Safety Improvement** This session provides a comprehensive exploration of road safety, featuring diverse perspectives from behavioural surveys to innovative technologies and key performance indicators, offering insights and strategies for road safety improvement based on the Safe System approach. It covers topics such as: · Traffic safety measures in school zones in Zambia · Commercial drivers & health and coaching system · VRU behaviour prediction using VR and ML · Road safety KPIs collection and challenges in the EU · Road user behaviour analysis in traffic simulation and road infrastructure assessment **Speakers:** Sonja Forward (VTI, Sweden) Davide Shingo Usami (CTL, Italy) Angel Losada (Universidad Politécnica de Madrid) Andreas Hula (Austrian Institute of Technology) Sandra Vieira (LNEC, Portugal) Dagmara Jankowska-Karpa (ITS, Poland) Veronika Valentová (CDV, Czech Republic) Anna Vadeby (VTI) Apostolos Ziakopoulos (National Technical University of Athens) **Moderator:** Véronique Feypell (ITF/OECD)	Hall 8A-4
09:45 - 11:00	**Special Session 6.5 Disruptive Sustainable and Smart Guided Transport Solutions part of Europe's Future Mobility?** As the demand for transport increases and customers ask for more personalised services, will flying taxis, "moving infrastructure" Pods, maglev trains and hyperloop be part of the future mobility system? The European Commission's Sustainable and Smart Mobility Strategy is committed to proactively shaping the future mobility by developing and validating new disruptive technologies. The session addresses disruptive guided transport solutions covered in the Multi-Annual Work Programme of the Europe's Rail Joint Undertaking. It presents the concepts and the maturity of these technologies. Can these technologies be connected, complementary and/or beneficial to the current transport networks and proven solutions? **Speakers:** Walter Struckl (Siemens Mobility) Manuel Osebek (DLR) Giuseppe Carcasi (RFI) Stefan Kirch (Nevomo) Mars Geuze (Hardt Hyperloop) Walter Neu (Institute of Hyperloop Technology) **Moderators:** Keir Fitch (EC DG MOVE) & Judit Sándor (Europe's Rail Joint Undertaking)	Hall 8A-5
09:45 - 11:00	**Special Session 6.6: Ports and Airports for a Green Transition of Mobility & Logistics** Ports and airports are the nodes where transportation modes come together, integrate and interoperate in mobility and logistics chains. As envisioned in the sustainable and smart mobility strategy, these nodes are starting their transition to become zero emissions and supporting transportation to be more efficient through digitalization. The challenge is to quickly push innovative mature solutions to large scale deployment for goods and people mobility including multimodal freight transport (intermodal and synchromodal), digitalisation of ports/airports and their connectivity with their hinterland and influence areas; Given the complex nature of stakeholders and processes embodied in a port or airport, several channels need to be explored for their greening and digital journey. The objective of this session is to cover multiple angles of the green and digital transition of the ports and airports. To exchange best practices on innovations and	Hall 8A-6

	take stock of the main opportunities and identify challenges. The session will more specifically focus on: · Next level information exchange and collaboration with stakeholders to improve multimodality, modal shift, and achieve efficient and sustainable transport. · Greening of mobility and logistics (within the nodes and in their network). Stakeholders will present the state of play of their Green Master Plans and how nodes can play a decisive role in CO2 reduction. · Provide an overview of the key mobility and logistics demonstrators and innovations developed. Deep dive in to 2-3 more promising and mature demonstrators with tangible results or outstanding prospects. · Stakeholders will explain how the roll out of tested solutions in large ports and airports could be supported and encouraged and how policy and regulatory barrier for further greening can be removed. **Speakers:** Inge de Wolf (Port of Antwerp and Bruges & PIONEERS Project) Reyer Will (Port of Rotterdam & MAGPIE Project) Jan-Christoph Maass (Port of Duisburg & MULTIRELOAD Project) Elke Bossaert (Brussels Airport & STARGATE Project) Massimo Corradi (Milano Airport & OLGA Project) **Moderators:** Gabriel Mialocq (CINEA) & Fernando Liesa (ALICE)	
09:45 - 11:00	**Special Session 6.7 - Hydrogen for Heavy Duty Transportation: Working in Synergy with the Partnerships** Hydrogen is a cross-cutting technology with applications in numerous sectors having specific needs in terms of research, innovation and market development and deployment. The Clean Hydrogen Partnership is at the core of R&I activities related to hydrogen production, distribution and end-uses for energy, transport, and industry. The integration, deployment and scale-up of H2 technologies in all related sectors will require additional, complementary and coordinated R&I efforts which is carried out in synergy with the end-use Partnerships covering hydrogen in their Programme and other European strategic initiatives at Union, National, and Regional level. By strengthening synergies with other Horizon Europe initiatives, Partnerships and other JUs, the Clean Hydrogen JU and other Partnerships have better chances to deliver on the ambitious 2030 targets and contribute to EU priorities and policies. The European Commission in the meantime has an important role to play in enhancing synergies, collaboration and bridging the gaps between different partnerships. In this special session, the speakers will illustrate their strategy to exploit the synergies, both in terms of technical activities then in terms of funding strategy. For example, actions such as: common roadmaps (reflected in the SRIAs) and MoU's signed between Partnerships can be developed (see MoU between Clean Hydrogen Partnership and CAJU), foresee collaboration between projects of different funding schemes, synchronise the calls for proposal to have actions at specific timings, creating links with national or European R&I activities, coordinated deployment of hydrogen vehicles and refuelling infrastructure between programmes, scale-up or staged proposals expansion and so on. **Speakers:** Giorgio Travaini (Europe's Rail JU) Richard Ferrer (CINEA) Torsten Klimke (EC DG MOVE) Lucie Beaumel (EGVIA for 2Zero Partnership) Jaap Gebraad (Waterborne) Sebastien Dubois (Clean Aviation JU) Lorcan O'Connor (Córas Iompair Éireann) **Moderator:** Mirela Atanasiu (Clean Hydrogen JU)	Dodder 5B

Schools Outreach Session

Wednesday 17th April 2024

Time	Title	Room
14:00 - 15:00	**Schools Outreach Session: The Future of Transport in Europe** This host session will consist of a panel of 2-3 students and 2-3 professionals from the transport sector and will be moderated by Macdara Ferris. Caoimhín Ó Ciaruáin Assistant Secretary from the Irish Department of Transport will open the session with outcomes of the sustainable mobility workshop earlier that morning and will close the session with concluding remarks. The session will allow participants in the audience to take part in online questioning, the same question will be posed at the start and post discussion to compare any shift in thinking. Questions will be directed to the students and the professionals to discuss the desired methods of moving throughout Ireland and Europe in the next 10 – 20 years and the challenges, opportunities and potential solutions that will come with these desires as we move to new types of mobility.	Hall 7 (Concert Hall)
	Student 1: **Cliona Marshall:** Clíona is a 17 year old student from Cork City who attends the DCU Centre for Talented Youth courses. Her interests lie in global politics and international relations. She is passionate about advocacy for free public transport and a commitment to identifying solutions to pressing issues of our time such as rural isolation and climate change through transport initiatives. She also has a deep interest in urban planning especially in the context of transportation systems, promoting sustainability in both urban and rural settings alike for future generations to come. She acknowledges that we can learn a lot from successful public transport systems globally, as well as relevant policies from the international community and is always seeking to contribute knowledgeably and meaningfully to discussions on transportation policies and politics wherever she can. In CTYI she completed Early University Entrance semester one and two in International Relations and Law and Politics and is also the Early Research Project Network in Law, which deepened her understanding of the policies and laws that guide transportation infrastructure.	
	Student 2: **Fionn Kilfeather:** Fionn is a 15-year-old CTYI student from Dublin who is an avid urban cyclist, transportation enthusiast and an advocate for good urban design, micromobility, public transport and EVs. Fionn will share some opinions about cycling in urban areas (including the development of new bicycle infrastructure), the importance of intermodal transportation, public transportation in Dublin and the development of Ireland's rail network. He is very passionate about these topics and would love to contribute to a discussion about them during the Transport Research Arena.	

	Student 3: **Bao O Curry:** Hi my names Bao im a 15 year old CTYI student. I believe that transport is an increasingly important topic that helps improve connection among peoole. On the panel I would like to discuss ways that the public transport system is failing the everyday person and things that we can do to improve it. I and many people in my life have dealt with anti social activities on transport and how public transport can be very unsafe, draining and unreliable. As well as this roads in rural areas are underfunded, narrow and dangerous and have faced extremely high mortality rates indicating that even without public transport these conditions are not fit for purpose further isolating people in rural areas and bringing them excess risk. I'm deeply interested in improving quality of living and I believe that solving these problems is a key way to do that. In previous years I have studied psychology as a whole, cognitive psychology and criminology and during this summer I will go on to study social psychology. From previously studying these topics, it was highlighted that being connected with people is a vital need of the human brain. One of the studies that highlighted this was 'Harlows Monkeys'. This study showed to us that monkeys, similar to humans, would rather starve than have no physical contact. protecting this need of connection is essential.	
	Moderator: Macdara Ferris is a chartered Engineer with both Engineers Ireland and Institution of Civil Engineers (UK). In addition to working as an engineer, Macdara has previously been a moderator for a Q&A session at the Aviva Stadium in October 2023 with former Ireland football manager John Giles and current Northern Ireland manager Michael O'Neill. He is a regular contributor on RTÉ Radio One Sunday Sport and is a keen traveller with plenty of transport user experience.	

Industry Sessions

Monday 15th April 2024

Time	Title	Location
Lunchtime		
12:45 - 13:30	**Collins Aerospace** Charting a course for net-zero aviation, how innovation is powering sustainability	The Exhibition Stage
12:45 - 13:45	**Enterprise Ireland** (Brokerage Event) Irish innovation at the cutting edge	Hall 2
13:00 - 13:45	**Google** Discussions about how major platforms, startups, and researchers can work together to enable better tools for efficient, clean, and safe mobility	Google Innovation & Incubation Zone
Coffee Break - PM Afternoon		
15:20 - 15:50	**PNO Consult** Structured innovation: Overcoming challenges in transport research and innovation through strategic collaboration	The Exhibition Stage
15:20 - 15:27	**University of Galway**	Google Innovation & Incubation Zone
15:29 - 15:36	**Paltech**	Google Innovation & Incubation Zone
15:38 - 15:45	**University of Limerick**	Google Innovation & Incubation Zone

Tuesday 16th April 2024

Time	Title	Location
Breakfast		
08:10 - 08:40	**IEEE** IEEE NTDAS: Driving global roadways research with a real-world probe vehicle data analytics platform	The Exhibition Stage
Coffee Break - AM Morning		
11:10 - 11:30	**Vivacitylabs** Using AI to Improve Road Safety	The Exhibition Stage
11:10 - 11:30	**IDA**	Hall 2
11:05 - 11:12	**Elogic**	Google Innovation & Incubation Zone
11:14 - 11:21	**Ubiwhere**	Google Innovation & Incubation Zone
11:23 - 11:30	**Transitool**	Google Innovation & Incubation Zone

Lunchtime		
13:15 - 14:15	**TII (Arranged by ARUP)** On the Move: Transport Infrastructure Ireland's Approach to Delivering Sustainable Mobility	The Exhibition Stage
13:15 - 13:45	**System 7** The universal continuous tamping robot CPLS32 and the Ballast Robot 4.0 - The System 7 Group is once again proud to unveil another world-first innovation in rail profile management.	Hall 2
13:45 - 14:15	**Linsinger** Linsinger smart Surface technology - The LINSINGER Group is once again proud to unveil another world-first innovation in rail profile management.	Hall 2
13:15 - 14:15	**Gas Networks Ireland** Decarbonising Ireland's Heavy Transport Sector with Renewable Gas - The First Step to Net Zero Commercial Transport	Hall 6
13:45 - 14:15	**Google** Discussions about how major platforms, startups, and researchers can work together to enable better tools for efficient, clean, and safe mobility	Google Innovation & Incubation Zone
Coffee Break - PM Afternoon		
15:45 - 15:52	**AECOM**	Google Innovation & Incubation Zone
15:54 - 16:01	**Turku**	Google Innovation & Incubation Zone
16:03 - 16:10	**The Discovery Programme**	Google Innovation & Incubation Zone

Wednesday 17th April 2024

Time	Title	Location
Coffee Break - AM Morning		
11:10 - 11:30	**BEPA** What is next for European battery R&I? The new Strategic and Research Agenda of the BATT4EU Partnership	The Exhibition Stage
11:10 - 11:30	**BMW** Creating Liveable Cities	Hall 2
11:05 - 11:12	**University of Limerick**	Google Innovation & Incubation Zone
11:14 - 11:21	**University of Galway**	Google Innovation & Incubation Zone
11:23 - 11:30	**Paltech**	Google Innovation & Incubation Zone
Lunchtime		
13:00 - 14:00	**EU Brokerage Event** Horizon Pitching Session	The Exhibition Stage

13:15 - 14:00	**National Transport Authority / NTA** Planning Cities and Towns for Better Bus Services – Developing guidance on how to make urban areas work for buses.	Hall 2
13:15 - 13:45	**Innovate UK** Innovate UK Introduce Horizon Europe Success Stories	Hall 6
13:30 - 14:15	**Google** Discussions about how major platforms, startups, and researchers can work together to enable better tools for efficient, clean, and safe mobility	Google Innovation & Incubation Zone
Coffee Break - PM Afternoon		
15:50 - 16:10	**EY** The role of AI and information in resilient transport systems	The Exhibition Stage
15:50 - 15:57	**Transitool**	Google Innovation & Incubation Zone
15:59 - 16:06	**Elogic**	Google Innovation & Incubation Zone
16:08 - 16:15	**Ubiwhere**	Google Innovation & Incubation Zone

Thursday 18th April 2024

Time	Title	Location
Coffee Break - AM Morning		
11:05 -11:12	**The Discovery Programme**	Google Innovation & Incubation Zone
11:14 - 11:21	**AECOM**	Google Innovation & Incubation Zone
11:23 - 11:30	**Turku**	Google Innovation & Incubation Zone
Lunchtime		
13:15 - 13:45	**EGIS Group** Effective collaboration using digital tools in design and delivery of major transportation infrastructure projects - Lessons being learned from the Grand Paris Express	The Exhibition Stage
13:15 - 13:35	**Valeo** Collaborative Digitalisation in Automotive - Opportunities & Challenges	Hall 2
13:00 - 14:00	**Google** Discussions about how major platforms, startups, and researchers can work together to enable better tools for efficient, clean, and safe mobility	Google Innovation & Incubation Zone

European Commission Lunchtime Sessions

Monday 15th April 2024 12:45 - 13:45

Time	Description	Room
12:45 - 13:45	**Towards Zero Emission Vehicles: From Batteries to Demonstration** The overreaching objective of this lunchtime session is to give an insight into some of the Green Road Transportation research supported under the EU's key funding programmes for research and innovation, Horizon 2020 and Horizon Europe. The session will cover a wide spectrum of relevant technologies, ranging from battery and PowerDrive development to charging infrastructure. It will also cover a wide range of TRLs, from laboratory validation to real-world demonstration, with the aim of demonstrating contribution to key performance indicators, such as energy intensity, integration of EV vehicles into the grid and improvements of charging efficiency. Participants will be representatives from the **Battery Heroes cluster**, the **E-VOLVE cluster**, and the **eCharge4Drivers** and **USER-CHI** projects.	Hall 1 Stand 13

Tuesday 16th April 2024 13:15 - 14:15

Time	Description	Room
13:15 - 14:15	**What's Next in Transport Policy** The overall objective of this lunchtime session is to provide insight into the latest policy initiatives underpinning the smart, sustainable and equitable transition of our transport and mobility system. The session will discuss, in a participatory manner, a wide range of policy issues including: TEN-T regulation, urban mobility and cycling declaration; the alternative fuels regulation (AFIR); Urban Air Mobility and drone strategy; digital data space, ITS and other digital updates. Speakers will include **Torsten Klimke**, Head of Innovation and Research Unit in the European Commission's Directorate-General for Mobility and Transport (DG MOVE) and **Isabelle Vandoorne**, Deputy Head of the same Unit. Other DG MOVE colleagues will also be present.	Hall 1 Stand 13

European Commission

European Commission Lunchtime Sessions

Wednesday 17th April 2024 13:15 - 14:15

Time	Description	Room
13:15 - 14:15	**On the path towards automation: State of play in Europe** The objective of this lunchtime session is to provide an overview of the status of development of Connected, Cooperative and Automated Mobility (CCAM) in Europe. More specifically, the session will focus on the Commission CCAM Staff Working Document that will be published before the TRA, and that takes stock of progress of the activities since the adoption in 2018 of the Communication dedicated to automated mobility. The session will then focus on the activities of the CCAM Public-Private Partnership that was set up in 2021 as well as on the CCAM activities Knowledge Base, a user-friendly tool that collects all regulatory and research activities being carried out at European and National level. The session will be moderated by **Andrea de Candido** of the European Commission's Directorate-General for Research and Innovation (DG RTD) and will include the following speakers: **Rosalinde van der Vlies**, Clean Planet Director, DG RTD, **Armin Graeter**, BMW and chair of the CCAM partnership and **Stephane Dreher**, ERTICO-ITS Europe and coordinator of the FAME project.	Hall 1 Stand 13

Thursday 18th April 2024 13:15 - 14:15

Time	Description	Room
13:15 - 14:15	**Digital Twins in transport** This lunchtime session will focus on how a digital twin model enables decision-making in transport and mobility planning. A digital twin is a virtual representation of an object or system that spans its lifecycle and uses real data and simulation to predict how the system (or process) will operate and perform. From infrastructure monitoring to logistics, digital twins have been demonstrating their potential to tackle transport challenges by supporting both medium and long-term planning and ad-hoc decision-making. This lunchtime session will showcase four research and innovation projects that use digital twins for the following domains: road infrastructure (**OMICRON**), ports (**PIONEERS**), urban logistics (**CIVITAS LEAD**), and multimodal traffic management (**ACUMEN**).	Hall 1 Stand 13

Times	Hall 8C	Hall 8A-1	Hall 8A-2	Hall 8A-3	Hall 8A-4	Hall 8A-5	Hall 8A-6	Hall 8B	Hall 8D	
09:30 - 11:00	OPENING CEREMONY (HALL 8C / SIMMONSCOURT)									
11:00 - 12:30	Plenary - Safe and Inclusive Transport									
12:30 - 14:00	LUNCH & EXHIBITION									
14:00 - 15:15										
14:00 - 14:15	Poster Sessions	***Special Session 1.1*** Open Science in Transport Research - Where Do We Stand?	***Special Session 1.2*** Inclusive and Sustainable Rural Mobility and Transport	***Special Session 1.3*** User Acceptance: Key to Successfully Transitioning to the Future European Mobility System	***Special Session 1.4*** How Can Research and Collaboration Support Cost-effective Solutions for Zero-emission Heavy-Duty Vehicles	***Special Session 1.5*** Sustainable Urban Mobility Solutions for Climate-neutral and Smart Cities				
14:15 - 14:30										
14:30 - 14:45										
14:45 - 15:00										

Times	Hall 2A	Hall 2B	Hall 2C	Hall 3A	Hall 3B	Hall 3C	Dodder 5A	Dodder 5B	Hall 6	Hall 7
09:30 - 11:00	OPENING CEREMONY (HALL 8C / SIMMONSCOURT)									
11:00 - 12:30										
12:30 - 14:00	LUNCH & EXHIBITION									
14:00 - 15:15	***Technical 2.2.1*** Decarbonisation	***Technical 2.1.1*** Active Travel	***Technical 2.1.2*** MaaS and On-demand Travel	***Technical 1.3.1*** Transport Behaviour	***Technical 1.1.1*** Automation for Improved Road Safety	***Technical 2.4.1*** Urban Logistics Solutions	***Technical 1.3.2*** Transport Equity and Gender	**Technical 2.1.3** Driver Behaviour	***Technical 2.2.2*** Low Emission Heavy Duty Vehicles	
14:00 - 14:15	Europe's Rail RAIL4EARTH - Sustainable rail systems Mr Philippe Clément	From Regular Cyclist to Cargo Bike User? A Step Closer to Enhancing Cargo Bike Culture Ms Juliana Betancur Arenas	Annual Mileage Development over Passenger Car Age and Driving Power in Finland Riku Viri	A study on charging behavior in an urban area in Italy Dr Natascia Andrenacci	Systematic Analysis of Automation Safety – Combining Different Perspectives by Simulation and Test Bed Evaluation Dr Martin Fischer	Last-mile delivery through electric motorbikes: Modelling considerations for parcel vs. food delivery Dr Harbil Arregui		Leveraging Carpooling to Enhance Multi-Modality: Learnings from Co-Design of a Mobility-as-a-Service Tool Mirko Baruffini	Decarbonizing Road Freight Transport: Towards Sustainable Solutions through Electric Road Systems Dr Mahnam Saeednia	
14:15 - 14:30	Towards Zero-Emissions Mobility in Ireland: A Review of Policies for Decarbonizing Heavy Goods Vehicles Mr Ayodeji Adekanbi	The effect of affluence and gender on active travel to school Mr Ross Higgins	Parking in Macroscopic Transport Models: Modelling Parking Capacities in Traffic Assignment Ms Dawn Spruijtenburg	Enhancing MaaS Personalization through Privacy-preserving Synthetic Data Generated from a Tabular Large-Scale Mobility Dataset Mr Francesco Maria Turno	Physical Testing of Automated Driving Systems under Commission Implementing Regulation (EU) 2022/1426 Mrs Giulia Morandin	Development of an intelligent system for urban logistics to facilitate sustainable optimization Dr Paul Dossou	Gender gap in cycling? Illuminating gender-specific route choices preferences. Miroslawa Lukawska	Examining the impact of driver distraction on speeding through the exploitation of smartphone sensor data Mr Panagiotis Papantoniou	Requested policy to support market transition – Experiences from a Swedish electrified logistics system demonstrator PhD Magnus Karlström	**Host Session: 1 Transport Agency of the Future**
14:30 - 14:45	Towards zero mobility in Ireland: Focusing on Life Cycle Assessment of hydrogen fuel transportation Mrs Sevda Sabernia	Walkable and cyclable side streets in Frankfurt - a multi-method analysis of (provisional) traffic calming measures Prof. Dr. Dennis Knese	Driving style characterisation and its impact on vehicle efficiency Dr Jaime Suarez Corujo	Adaptive MaaS Planning via Demand Elasticity Scenario Analysis Dr Muhammad Tabish Bilal	Investigating the effect of driver-vehicle-environment interaction with risk through naturalistic driving data Mrs Eva Michelaraki	Inefficiency assessment for agricultural commodities in urban areas Ms. Prishita Sharma	Using the logsum to assess transport equity across projects in Ireland Miss Wen Zhang	The influence of micro-mobility services on peoples' willingness to join a MaaS scheme. Prof. Amalia Polydoropoulou	Shift to Low/ Zero Emission Trucks: Research into Logistics Issues in the Hungarian Road Transport Sector Ms Ola Qasseer	
14:45 - 15:00	Does Eco-Routing Even Work? Some Experimental Findings Mr Charis Chalkiadakis	Quantifying Cycling Infrastructure Investment Needs across Europe Using OpenStreetMap Data Mr Aleksander Buczynski	Safety relevant Behaviour-based Driving Dynamics Indicators of E-Scooter usage in Everyday and Parcours Situations Dr Andreas Hula	Physiological analysis of cognitive load variations during complex information processing Dr Allan Armougum	Hybrid path planning approach for the autonomous obstacle avoidance during cornering Dr Paulius Skačkauskas	Mobile-Depots and Cargo Bikes Towards a Sustainable Last-Mile Future Vasco Silva	Transport Equity – Exploring gender-inclusive infrastructure for rural and inter-urban cycling in Ireland Ms Ruth Van Ry	On-demand transport services as a supplement to public transport in suburban areas. Mr Tyll Diebold	High-Capacity Road Transport in Finland Mr Vesa Mannisto	

MONDAY 15 APRIL - PROGRAMME

Times	Hall 8C	Hall 8A-1	Hall 8A-2	Hall 8A-3	Hall 8A-4	Hall 8A-5	Hall 8A-6	Hall 8B	Hall 8D	
15:00 - 15:15	**Poster Sessions**	***Special Session 1.1*** Open Science in Transport Research - Where Do We Stand?	***Special Session 1.2*** Inclusive and Sustainable Rural Mobility and Transport	***Special Session 1.3*** User Acceptance: Key to Successfully Transitioning to the Future European Mobility System	***Special Session 1.4*** How Can Research and Collaboration Support Cost-effective Solutions for Zero-emission Heavy-Duty Vehicles	***Special Session 1.5*** Sustainable Urban Mobility Solutions for Climate-neutral and Smart Cities				
15:15 - 15:45	COFFEE BREAK / MOVE TO CONCURRENT SESSIONS									
15:45 - 17:00								***Strategic Session 1.1*** From Research to Evidence-based Transport Safety Strategies – Towards Vision Zero	***Strategic Session 1.2*** Future Workforce & Skills	
17:00 - 17:30	COFFEE BREAK / MOVE TO CONCURRENT SESSIONS									
17:15 - 18:30										
17:15 - 17:30	**Ministerial Host Roundtable - Transport Policy & Regulation**									
17:30 - 17:45										

Times	Hall 2A	Hall 2B	Hall 2C	Hall 3A	Hall 3B	Hall 3C	Dodder 5A	Dodder 5B	Hall 6	Hall 7
15:00 - 15:15	A feasibility study on the Italian road transportation capability for 2030 EU decarbonization targets Prof. Ennio Cascetta	Nudging Urban Cycling Through Gamification and Rewarding Schemes Miss MARIA KONSTANTINIDOU	Activity-Based Travel Demand Model: Unveiling the Dynamics of Modern Travel Behavior in Dublin Prof Brian Caulfield	Promoting Cycling Skills of Schoolchildren – Participatory Impact Evaluation Methods as Nudges for Active Mobility Ms Annika Kunnasvirta	The HADRIAN Novel Human-Machine Interface Prototype for Automated Driving: Safety and Impact Assessment Mr Marios Sekadakis		Gender Gap in Waiting-Times at Signalized Intersections – Are female cyclists structurally disadvantaged? Dr Sven Lißner		Fuel Cell vs. Battery Electric Buses: Environmental, Economic and Operational Performance Dr Stefan Eckert	**Host Session: 1 Transport Agency of the Future**
15:15 - 15:45	COFFEE BREAK / MOVE TO CONCURRENT SESSIONS									
15:45 - 17:00	***Strategic Session 1.3*** People Centred & Inclusive Mobility									**Host Session: 2 Transport Agency of the Future**
17:00 - 17:30	COFFEE BREAK / MOVE TO CONCURRENT SESSIONS									
17:15 - 18:30	***Technical 2.2.3*** Urban Mobility	***Technical 1.1.2*** Safety of Vulnerable Road Users	***Technical 1.3.3*** Inclusive Mobility (1)	***Technical 2.2.4*** Aviation Advances	***Technical 1.1.3*** Road Safety of Commercial Vehicles	***Technical 2.2.5*** Electric	***Technical 1.2.1*** Future Workforce & Skills	***Technical 2.2.6*** Maritime Approaches for Zero Emissions	***Technical 2.3.1*** Particle Emissions	
17:15 - 17:30	COFACY: From Behavior To Cycling Accident Factor Dr Samuel Aupetit							Physical modelling of container ship propulsion and comparison with operational data Mr Adrien Aubert		
17:30 - 17:45	Different city = different cycling behavior? A comparative analysis of cycling behavior in Germany. Dr. Stefan Huber	SAFER TO SCHOOL – the Slovenian approach Mr Uroš Brumec	Socially Responsible City Logistics – the Concept and Challenges Assoc. Prof. Stanislaw Iwan		Stressors and Stress Mitigation for Occupational Road Freight Drivers: a Focus Group Study Mr Brent Peters	Data-analytics tool for facilitating the use and decision making for e-car sharing service Mrs Afroditi Stamelou	Working women in transport: A toolkit for change Karen Vancluysen	The ORCELLE project: Implementation of wing sails to deep sea cargo transport Prof. Apostolos Papanikolaou	Characterization and Source Apportionment of Particulate Matter in Underground Railway Station Mrs Sylvie Ngo	

MONDAY 15 APRIL - PROGRAMME

Times	Hall 8C	Hall 8A-1	Hall 8A-2	Hall 8A-3	Hall 8A-4	Hall 8A-5	Hall 8A-6	Hall 8B	Hall 8D	
17:45 - 18:00										
18:00 - 18:15	Ministerial Host Roundtable - Transport Policy & Regulation									
18:15 - 18:30										

Times	Hall 2A	Hall 2B	Hall 2C	Hall 3A	Hall 3B	Hall 3C	Dodder 5A	Dodder 5B	Hall 6	Hall 7
17:45 - 18:00	Cycle propensity modelling: An extreme cycling uptake study Dr William Brazil	Extracting Parameters of Vulnerable Road Users' Behavior from Video Observation for Modeling of Urban Microsimu-lation Mr Ángel Losada Arias	"Mobil without fear": How to foster inclusive urban public transportation for people with anxiety disorders. Dipl.-Ing.in Lisa Stoiber-Frank	Market-Based Measures for International Aviation and Shipping: Lessons Learned from a Cross-Sectoral Analysis Dr Goran Dominioni		Markov Chain and K-means Clustering Analyses for Constructing Electric Vehicle Drive Cycle for Dublin, Ireland. Suhail Akhtar Harry Smith	The Effect of View, Latency, Speed and Performed Task on Remote Vehicle Operators Mr Christian Jernberg	OPTIWISE sailing into the future: wind assisted propulsion of ships Mr Maarten Flikkema		
18:00 - 18:15	Optimize Electrified Meeting-Point-Based Feeder Bus Services with Capacitated Charging Stations and Partial Recharges Dr Tai-Yu Ma	Blind and Non-Blind, an Observa-tional Study on Pedestrian Behaviour with an Electric Vehicle Dr. Anabela Ribeiro	Measuring vul-nerable road user volumes after mobility interventions in the metro-politan centre of Athens Mrs Stella Roussou	Decarbonize European aviation: the DESAT Model scenarios on Small Air Transport and short-distance flights ban Ms Francesca Fermi		Innovative e-motor technologies for e-axles and e-corners vehicle architectures enabling highly efficient and sustainable e-mobility Dr Bo Wang	On tackling skill shortage in the rail sector: the STAFFER ERASMUS + project Prof. Angela Di Febbraro	Lessons Learned from Designing, Constructing and Operating the Metha-nol-Powered Vessels in the FASTWATER Project Prof. Sebastian Verhelst	Field study of pedestrian crossings deterioration over time: assessment of microplastics emission from road markings Dr Tomasz Burghardt	
18:15 - 18:30	Tracking Progress towards Net Zero Mobility in LMICs: An Index for Sustainable and Electric Mobility Miss Vera-Marie Andrieu	Equitable Mobility - Appropriate Active Travel Facilities for the Aging Population. Ms Ruth Van Ry	Can individuals with visual field loss (VFL) drive safely? Prof. Jan Andersson	Governance and regulations of unmanned aircraft systems in the European Union – A comparative framework Mr Anssi Rauhala		Examin-ing how geographical location impacts fuel cell electric bus opera-tional energy consumption and carbon emissions Dr Teresa McGrath	MUNER - Italian MotorValley Excellence for education and innovation in automo-tive and sustainable mobility Prof. Francesco Leali		TOXinTRANS-PORT : project about toxicological, chemical and physical characteriza-tions of particles in railway environments Mrs Jessica Queron	

#TRA2024 | The RDS, Dublin | 15 - 18 April 2024 | www.traconference.eu 85

Times	Hall 8C	Hall 8A-1	Hall 8A-2	Hall 8A-3	Hall 8A-4	Hall 8A-5	Hall 8A-6	Hall 8B	Hall 8D		Times	Hall 2A	Hall 2B	Hall 2C	Hall 3A	Hall 3B	Hall 3C	Dodder 5A	Dodder 5B	Hall 6	Hall 7
08:30 - 09:30											**08:30 - 09:30**	***Technical 2.1.4*** Sustainable Mobility (1)	***Technical 2.1.5*** Shared Mobility	***Technical 1.3.4*** Inclusive Mobility (2)	***Technical 2.4.2*** Rail based Logistics	***Technical 2.2.7*** Improved Automotive Performance	***Technical 1.3.5*** Technical Advances for Improved Mobility	***Technical 2.2.8*** Port Operations		***Technical 2.1.6*** Rural Transport (1)	
08:30 - 08:45											**08:30 - 08:45**	Equity to modes of transport for industry workers located in industrial zones Mr Paulo Ribeiro	Design and assessment of shared and electric mobility hubs for an integrated transport system Alessandro Luè	The effect of the pandemic on the mobility of persons with disabilities Dr Alexandra König	Comparing the Environmental and Economic Impact of the CargoTube System with Road-based Transport Dr Stephan Wurst	A Path Toward a New Generation of Green Hybrid Powertrain: The PHOENICE Project Dr Toni Tahtouh	A perceived-objective composite index for assessing 15-minute city in urban areas at a microscale level Mr. Daniel Oviedo	Battery or Hydrogen trucks: Assessing truly green and cost-effective trucking choice Mr Arjun Bopaiah		Empowering Sustainable Tourism Mobility through Multimodal Transportation in Rural Areas Ms Mirjam Baumann	
08:45 - 09:00											**08:45 - 09:00**	Modelling sustainable transport – An open data approach to model mode shift towards net zero Mr. Iwan Porojkow	Moped-Scooter-Sharing Usage and its Impact on Vehicle Ownership: an Analysis of the Spanish Case. Mr. Álvaro Aguilera-García	Impact of Slope Upon Pedestrian Flow Ms Prishita Sharma	Full-Scale CargoTube Demonstrator based on Hyperloop Technologies Prof. Dr. Thomas Schüning	Latest reliable Power Electronics Technologies for Zero-Emission Transport Dr Christoph Abart	Optimized motorway infrastructure for efficient public transport Mr Martin Nemec	Transitioning towards green port operations: A state-of-practice approach on emerging "green" technologies Ms Konstantia Karagkouni		Investigate the RURAL mobility and accessibility challenges of Seniors. Mr Tom Ryan	
09:00 - 09:15											**09:00 - 09:15**	Evaluating Passenger Transport Emissions and Modal Shift with Elasticity-Based Regional Scenario Tool Ms Johanna Mäkinen	What makes for a Successful E-scooter Scheme? Best Practice from the West of England Mrs Grace Packard	The sensorial experience of soft daily mobility Mrs Jeanne Lallement	Assessing the potential for a European modal shift towards rail Dr Matthias Prandtstetter		Investigation of vibration and frequency transmission to riders from electric kick-scooters on various urban pavements Assoc. Prof. Mykola Karpenko	Improving Transport Performance and Decarbonization Potential in Small-Medium Ports Prof. Margarida Coelho		Sustainability and Passengers' Values in Rural Mobility – A Case of Fell Lapland Region Mr Valtteri Ahonen	
09:15 - 09:30											**09:15 - 09:30**	Urban Ropeways – An environmentally friendly alternative for Commuters? Mr Karl Hofer	Are shared e-bikes disruptive of established shared e-scooter services? A case study of Braga, Portugal Mr Gabriel Dias	Are Academics' Willing to Change their Conference Travel Habits for the Sake of the Environment? Dr Iria Lopez Carreiro	Benefits, Challenges, and Opportunities of the Digital Automatic Coupling Mr Gabriel Stephan Himmelbauer	Development and Analysis of Rightsized Powertrains for Small Urban Vehicles Dr Jenni Pippuri-Mäkeläinen	A User-Centred Validation Methodology for Assessing the Cross-Modal Transferability Impact of Technologies Mr François Brambati	Ports as urban transition actors towards zero-emission transport Prof. Marianne Ryghaug		Evaluation of Beyond MaaS Concept and Technical Solution: Case Enriched Travel Chains Mr Olli Pihlajamaa	
09:30 - 09:45	**MOVE BETWEEN SESSIONS**										**09:30 - 09:45**	**MOVE BETWEEN SESSIONS**									

TUESDAY 16 APRIL - PROGRAMME

Times	Hall 8C	Hall 8A-1	Hall 8A-2	Hall 8A-3	Hall 8A-4	Hall 8A-5	Hall 8A-6	Hall 8B	Hall 8D	
09:45 - 11:00										
09:45 - 10:00										
10:00 - 10:15		***Special Session 2.1*** Air Traffic Management: 20 years of the Single European Sky	***Special Session 2.2*** Waterborne Passenger Transport – an Essential Transport Mode in Outer Regions	***Special Session 2.3*** Innovation in Urban Logistics: Public and Private Sectors Thriving Together	***Special Session 2.4*** Sustainable and Smart Mobility Strategy: What Role for Rail Traffic Management?	***Special Session 2.5*** Harmonizing Global Efforts for Decarbonizing Transport Systems with the Global South	***Special Session 2.6*** Infrastructures and Biodiversity Facing a Convergence of Challenges: the Role of Research and Innovation in Supporting Change			
10:15 - 10:30	**Poster Sessions**									
10:30 - 10:45										

Times	Hall 2A	Hall 2B	Hall 2C	Hall 3A	Hall 3B	Hall 3C	Dodder 5A	Dodder 5B	Hall 6	Hall 7
09:45 - 11:00	***Technical 1.3.6*** Improving Transport Accessibility	***Technical 2.4.3*** Sustainable Urban Logistics Strategies	***Technical 1.3.7*** Citizens Impacts	***Technical 1.1.4*** Safety in a Multimodal and Aviation Context	***Technical 2.3.2*** Airborne Emissions	***Technical 3.1.1*** Bridge Assessment	***Technical 3.3.1*** Circular Approaches to Resource Management		***Technical 2.1.7*** Traffic Management & Control	
09:45 - 10:00	Time-Based Airport Accessibility: Examining the Role of Time of Travel on Surface Access Mode Choice Mr Brian Condron	Towards a greener future: Innovative strategies for sustainable urban freight distribution in Barcelona Dr Eduard J. Alvarez-Palau	Reducing Possible Harassment during Taxi Rides by achieving Safety and Stability Dr Martin Aleksandrov	Holistic Approach to the Transport Safety Assessment: A Case of Multimodal Transport Ecosystem Dr Viktoriia Ivannikova	Air pollution at airport areas: magnitude of the phenomenon and measures to mitigate it Dr Maria Vittoria Corazza	Bridge-Wind Analysis: Assessing Wind Effects on Long Span Bridges using Computational Modeling Dr Jennifer Keenahan	Additive manufacturing for SNCF Réseau: investigation on material and process opportunities for industrial purpose. Mr Pascal De Guio		Accelerating Cross-Stakeholder Collaboration with Modern Traffic Management Systems and Strategies Mr Antulio Richetta	
10:00 - 10:15	Pedestrian tracks crossing: how to conceive safety systems based on human cognitive and biomechanical understanding? Mrs Elise Grison	The opportunities of using logistics service marketplace to decrease emissions of transport and logistics industry Mr Markku Mikkola	The Mobility Lab: A Tool for Evaluating People-Centered and Inclusive Transport Dr Matthias Heinrichs	Efficient Simulation of Aircraft de-icing Safety Enhancement and Heat Load Reduction via Super-Hydrophobic Coatings Dr Giulio Croce	Evaluating the Impact of Urban Traffic Patterns on Air Pollution Emissions in Dublin Dr Pavlos Tafidis	Video-based object recognition for identifying vehicle distances needed in bridge load evaluations Dr Marian Ralbovsky	Water management as a new saving opportunity for bus managers: evidence from the LIFEH2O-BUS project Mr Matthew Robinson	***Special Session 2.7*** Active Travel in Urban Areas	Network-wide Estimation of Average Daily Bicycle Traffic Based on Crowdsourced GPS Data and Permanent Counters Dr Emely Richter	
10:15 - 10:30	Effective ways to personalize the delivery of nudging interventions using Trans-theoretical Model (TTM) and multimodality Mr Warnakulasooriya Umesh Ashen Lowe	Comparative Analysis of City-specific Light Freight EV Applications in Asia, Africa and Latin America Mr George Panagakos	Is Mobility as a Service beneficial for all? Developing a stakeholder-based evaluation framework for MaaS Dr Imre Keseru	Integrating Human Factors and Neuroscience Research through Neurophysiological Metrics across Transportation Domains Mr François Brambati	Transport Infrastructure Ireland Roads Emissions Model (REM) and Carbon Tool Dr David Deakin	A vehicle-based sensing approach for network-level bridge condition monitoring Dr Robert Corbally	Circularity of Reusable Packaging Dr Wolfgang Ponweiser		GeTUP: An Internet of things based navigation system architecture for high-level route planning Dr Muhammad Tabish Bilal	
10:30 - 10:45	Mind the gap! A mixed-method study on accessibility inequalities : Evidence from Brussels, Strasbourg Assoc. Prof. Alexis Conesa	Making Last Mile Logistics Models Aware of Costumer Choices, Demand Sustainability and Data Economy Mr Javi Esquillor	Who benefits from investment in active modes of transport in Ireland? Dr Catherine Murray	Future Flight Operations: Communication, Collaboration and Resource Management Ms Alison Kay	Road Transport Emission Parameterization for Microscale Applications based on Macroscale Measurable Traffic Information Dr Christina Quaassdorff	Mitigation of Large Overloads on Road Bridges Prof. Bernard Jacob	New attractiveness of rolling stock: circular and modular interiors Mr Robert Dumortier		Designing Mobility Systems-of-systems Dr Pontus Svenson	

TUESDAY 16 APRIL - PROGRAMME

Times	Hall 8C	Hall 8A-1	Hall 8A-2	Hall 8A-3	Hall 8A-4	Hall 8A-5	Hall 8A-6	Hall 8B	Hall 8D
10:45 - 11:00	**Poster Sessions**	***Special Session 2.1*** Air Traffic Management: 20 years of the Single European Sky	***Special Session 2.2*** Waterborne Passenger Transport – an Essential Transport Mode in Outer Regions	***Special Session 2.3*** Innovation in Urban Logistics: Public and Private Sectors Thriving To-gether	***Special Session 2.4*** Sustainable and Smart Mobility Strategy: What Role for Rail Traffic Management?	***Special Session 2.5*** Harmonizing Global Efforts for Decarbon-izing Transport Systems with the Global South	***Special Session 2.6*** Infrastructures and Biodiversity Facing a Convergence of Challenges: the Role of Research and Innovation in Supporting Change		
11:00 - 11:30	COFFEE BREAK								
11:30 - 13:00	**Plenary - Sustainable Mobility of People and Goods**								
13:00 - 14:30	LUNCH & EXHIBITION								
14:30 - 14:45	**Poster Sessions**	***Special Session 3.1*** Urban Air Mobility – From Concept to Reality	***Special Session 3.2*** Greening of Construction of Transport Infrastructure	***Special Session 3.3*** How can Large-scale Demonstration Accelerate CCAM Adoption in European Logistic Chains	***Special Session 3.4*** Ports as Energy Hubs, a Key Role in the Transitions to a Zero-emission Society	***Special Session 3.5*** Revolution-izing Higher Education and Research in Transportation: AI-enhanced Curriculum Design and Implementation	***Special Session 3.6*** Railway Research and Innovation Agenda		
14:45 - 15:00									
15:00 - 15:15									

Times	Hall 2A	Hall 2B	Hall 2C	Hall 3A	Hall 3B	Hall 3C	Dodder 5A	Dodder 5B	Hall 6	Hall 7
10:45 - 11:00	Parameters for Assessing Public Transport Accessibility of Indian Cities Pragati Goel	Towards sustainable urban freight transport: insights from data analysis of receiving and shipping behavior Ms. Greta Hettich	Strengthening city-citizen engagement: A mobile app to enhance pedestrian safety and comfort Dr Marta Campos Ferreira	The Impact of Blended Autonomy on the Automotive, Aviation and Maritime Sectors: A Comparative Analysis Prof. Gregory Provan	On-Board Monitoring of exhaust emissions for Euro 7: Effect of system's tolerances on monitoring performance Dr Dimitrios Kontses		Reduction of CO2 emissions through reusable packaging Dr Matthias Prandtstetter	***Special Session 2.7*** Active Travel in Urban Areas	How to improve multimodal traffic control via innovative communication channels. Mrs Melanie Juppe	
11:00 - 11:30	COFFEE BREAK									
11:30 - 13:00										
13:00 - 14:30	LUNCH & EXHIBITION									
14:30 - 14:45	***Technical 1.4.1*** Planning Transport	***Technical 3.2.1*** Resilience to Climate Change	***Technical 4.3.1*** Digital Challenges in the Urban Environment	***Technical 1.1.5*** Safety in the Rail Sector	***Technical 2.1.8*** Case Studies of Sustainable Innovation	***Technical 2.4.4*** Urban Freight - Scenarios, Planning and Space Allocation	***Technical 2.2.9*** Batteries (1)		***Technical 2.3.3*** Noise	
14:45 - 15:00	NM20 Our Transport Solution Mrs Tara O'leary	Climate Impact Analysis on Gravitational Mass Movements along the German Railway and Road Network Dr Sonja Szymczak	Automated shuttle experiments in Helmond Mr Patrick Hofman	Condition monitoring of railway transition zones using acceleration measurements on multiple axle boxes Dr Li WANG	Towards Integrated Traffic Management for all of Austria beyond Administra-tive Borders Mr Tobias Schleser	Impacts of Regional Electrified Logistics on Drivers' and Transport Planners' Work Environments Dr Jana Sochor	A cost modeling framework for modular battery energy storage systems Mr Jonathan Baake		Assessing the perceived annoyance of high-speed trains with an experience sampling method Dr Guillaume Lemaitre	
15:00 - 15:15	Towards sustainable and inclusive corridors: Rethinking the planning of infrastructure and spatial development Dr Charlotta Faith-Ell	Improving the uptake of Climate Change Adaptation in the Decision-Making processes of Road Authorities Mr Thomas Bles	Assessing Automated Air Taxis for Urban Mobility Dr Bin Hu	MagRail technologies to secure heavy freight activities in alpian mountains: a driverless perspective. Dr Juliette Marais	Cultural Vibrancy of Cities Served by High-Speed Rail: A Case Study of Italy Prof. Silvio Nocera	FlexCurb is a solution for Curbside management evaluating regulations, identifying allocation imbalances, optimising public spaces. Mr Fabio Cartolano	Silicon Based Lithium-Ion Battery Cell Material Tests, Supported by Finite Element Model Simulations Mr. Philip Kargl	***Special Session 3.7*** Advancing Resilience of Transport Operations and Infrastructure	Transforming Railways into Quiet Neighbors: Pioneering a Global Approach to Noise Reduction Mrs Pinar Yilmazer	
15:15 - 15:30	Do people actually want sustainable urban mobility systems? A residents' perspective on policy measures Dr Konstantin Krauß	Increase resiliency against extreme weather events Mr Rainer Müller	The Case for Automated Buses: the MultiCAV Project and the Didcot Garden Town Urban Extension Prof. Graham Parkhurst	GNSS-based performance rules and Railway oper-ating Dr Juliette Marais	How do tourists use bike-sharing? Analyzing origin-destination data of tourists' bike-sharing usage in Budapest, Hungary Dr Dávid Földes	A Digital Twin-based Framework for Evaluating Last-Mile Collaboration Schemes with Electric Modular Vehicles. Mr Zisis Maleas	The promise of zero weight penalty energy storage – Structural batteries for aeronautic applications Dr Helmut Kühnelt		Extent of L-vehicles Tampering and Impact on Noise and Emissions Miss Nikoletta Batsalia	

TUESDAY 16 APRIL - PROGRAMME

Times	Hall 8C	Hall 8A-1	Hall 8A-2	Hall 8A-3	Hall 8A-4	Hall 8A-5	Hall 8A-6	Hall 8B	Hall 8D		Times	Hall 2A	Hall 2B	Hall 2C	Hall 3A	Hall 3B	Hall 3C	Dodder 5A	Dodder 5B	Hall 6	Hall 7
15:15 - 15:30	Poster Sessions	***Special Session 3.1*** Urban Air Mobility – From Concept to Reality	***Special Session 3.2*** Greening of Construction of Transport Infrastructure	***Special Session 3.3*** How can Large-scale Demonstration Accelerate CCAM Adoption in European Logistic Chains	***Special Session 3.4*** Ports as Energy Hubs, a Key Role in the Transitions to a Zero-emission Society	***Special Session 3.5*** Revolution-izing Higher Education and Research in Transportation: AI-enhanced Curriculum Design and Implementation	***Special Session 3.6*** Railway Research and Innovation Agenda				15:15 - 15:30	Predicting capability of accident severity models; A multi-source application in the city of Berlin Aristomenis Kopsacheilis	Tools and Guidance for Climate Risk Assessment: A Review of the UK Transport Sector Dr Áine Ní Bhreasail	Prioritizing buses in smart cities: A stochastic optimization approach Dr Heletjé van Staden	On-Board Train Integrity: From the concept to the field testing Mr Salvatore Danilo Iovino	Scenario-based Analysis of Automated Mobility Service Costs in Urban Areas – The Case of Oslo Mr Babacar Charly Beye	Trends and scenarios of urban logistics in EU: a survey in 21 greater cities Mr Fabio Cartolano	Manufac-turing and assembly of modular and reusable EV battery for environ-ment-friendly and lightweight mobility Dr Sandor Eichinger	***Special Session 3.7*** Advancing Resilience of Transport Operations and Infrastructure	Noise Level and Indoor Air Quality Assessment in Public Transport Buses of Portugal and Nigeria. Mr John Ogundiran	
15:30 - 15:45											15:30 - 15:45	Possibilities for supporting automated driving and leveraging vehicle data in road design and maintenance Dr Ane Dalsnes Storsæter	Analysis of Extreme Weather Effects of Travel time Reliability. Dr. Dhivya Bharathi	Technology development towards autonomous, connected and safe mobility of people and goods in urban environments Mr Javier Romo	Use of Video Records for Evaluation in Service of Innovative Equipment for Train Passenger Doors Mr David Bertrand	Governance of automated vehicles in urban transport system: a case study of Oslo region, Norway Dr Adewale Arowolo	Integrating Logistics Require-ments in City District Planning Dr Alexandra Anderluh	Developing Sulfide Based Solid State Battery With High Energy Density For Automotive Applications Dr Seyedhosein Payandeh		Monitoring of Acoustic Performance of Noise Barriers along Roads in Ireland Mr Andreas Fuchs	
15:45 - 16:15	COFFEE BREAK										15:45 - 16:15	COFFEE BREAK									
16:15 - 17:30								***Strategic Session 2.1*** Future Urban and Suburban Mobility Services	***Strategic Session 2.2*** Zero-emission Mobility, Health, and the Envi-ronment: Benefits and Future Challenges		16:15 - 17:30	***Strategic Session 2.3*** Logistics De-carbonisation Champions: Accelerating the Decar-bonisation of Freight Transport									
17:30 - 17:45	MOVE BETWEEN SESSIONS										17:30 - 17:45	MOVE BETWEEN SESSIONS									
17:45 - 18:45												***Technical 2.1.9*** Sustainable Mobility (2)	***Technical 1.4.2*** Transport Policies	***Technical 2.3.4*** Environmental Planning	***Technical 3.4.1*** Sustainable Alternative Fuels	***Technical 2.1.10*** Sustainable Aviation	***Technical 2.4.5*** Waterborne Logistics	***Technical 2.2.10*** Batteries (2)	***Technical 1.3.8*** Digital Tools for Design	***Technical 4.3.2*** Societal Uptake of CCAM Solutions	
17:45 - 18:00	Ministerial Host Roundtable - Climate & Energy										17:45 - 18:00	Measuring and Visualising 15-Minute-Areas for Fair CO2 Budget Distribution Mr Daniel Krajzewicz	Towards a typology of arguments for supporting or opposing transport policy measures Dr Wouter Van den Berghe	Medical applications of UAM: a study on acceptance and design Sérgio Pedro Duarte	Performance assessment of an advanced hybrid system between SOFC and ICE to be applied onboard a short-distance ferry Mr Ahmed Gamal Hamed Elkafas	Investigating the Co-Creation of Future Flight Ecosystems and Enter-prise Dr Christopher J. Parker	Resilience of Inland Waterway Transport: Towards a Practice-Oriented Repository of Common Threats and Hazards Dr Marija Jović	Hydrogen and Battery Trains, Which Tech-nologies for Future Light Trains? Dr Clément Depature Lançon	The Role of Social Robots in On-Demand Autonomous Public Transport Dr Bhavana Vaddadi	Transition to remote driving: challenges and best practices for collaboration in the digital age Mr Xavier Morin	

#TRA2024 | The RDS, Dublin | 15 - 18 April 2024 | www.traconference.eu 93

Times	Hall 8C	Hall 8A-1	Hall 8A-2	Hall 8A-3	Hall 8A-4	Hall 8A-5	Hall 8A-6	Hall 8B	Hall 8D		Times	Hall 2A	Hall 2B	Hall 2C	Hall 3A	Hall 3B	Hall 3C	Dodder 5A	Dodder 5B	Hall 6	Hall 7
18:00 - 18:15											18:00 - 18:15	The Attractiveness of Public Transport in the Context of Sustainable Development Mrs Aldona Jarašūnienė	Transport Appraisal for Sustainable Transport: A Literature Review and Implications to Policy Makers Dr Juan Martinez-co-varrubias	Estimating the socio-environmental impacts of car substitution by bicycle and public transit using open tools Dr Rosa Félix	Technico-economic Feasibility Study of On-board H2 Production in a Passenger Hydrogen Train for Railway Operators Ms Jeanne-marie Dalbavie	Integrated Flight Schedule Design and Fleet Assignment Problem Approach Considering Transit Passengers in Hub-and-Spoke Network Dr Cemalettin Ozturk	Impact Assessment of Cargo Reconstruction on the IWT Logistics System Peter Shobayo	Development of Next Generation Sustainable Electric Traction Motors Dr Jenni Pippuri-Mäkeläinen	Human-Centered Systems Engineering Framework Approach for Defining and Enhancing Passenger Experiences in Rail Infrastructure Miss Kimberley Harding	Trustworthy Automated Driving through Qualitative Scene Understanding and Explanations Dr Nassim Belmecheri	
18:15 - 18:30	Ministerial Host Roundtable - Climate & Energy										18:15 - 18:30	Hard Shoulder Bus Priority Measures on Motorways and Type 1 Dual Carriageways Mr Stephen Barry	Barriers for adoption of a fully electric vehicle – a study in Helsinki region Dr Risto Öörni	Strategic environmental assessment of transport plans and programmes: how to reach systematic impact monitoring? Dr Elisabete Arsenio	Analysis of airport infrastructure with regard to the use of sustainable and alternative aviation fuels Dr Peter A. Meincke	Enabling automated zero-emissions Air Mobility trough U-Space infrastructure Mr Javier Camacho Font	Modal Shift Potential for Danube Shipping: The New Market of Containerized Transport of Dry Bulk Ms Denise Beil	Assessing optimized research funding through network analysis - Batteries for road transport case study Mr. Ian Faye	Evaluation of pedestrian crossing accidents using Artificial Neural Network Dr Bertha Maria Santos	Safety Demonstration Framework of Automated Road Mobility: Methodological and Governance Aspects of the Scenario-based Approach Miss Elsa Lanaud	
18:30 - 18:45											18:30 - 18:45	Accelerating the Deployment of Shared and Digital Mobility Hubs Across Europe Prof. Dr. Tessa Taefi	Exploring perceptions of comfort, security and safety in different modes of transport: A comparative study Dr Marta Campos Ferreira	Effects of Traffic Signal Coordination on Traffic and Emission-related Evaluation Parameters Mr Felix Hofinger	The commercialisation and deployment of Sustainable Aviation Fuel (SAF) within commercial aviation in Europe–2050 Mr Mark Breen	The Single European Sky and Aviation Sustainability Prof. Federico Franchina	Innovating European Container Terminals; Studying the Current European Container Terminal Environment and Identifying Key Stakeholders Mr Wouter Schmidt	Supercabattieries for a new sustainable mobility Mr Maurizio Laschi	A Serious Game as a Tool for User-centered Design of Mobility Solutions Dr Annika Dressler	Acceptability of automated vehicles in Portugal: profiling prospective users Dr. António Lobo	

#TRA2024 | The RDS, Dublin | 15 - 18 April 2024 | www.traconference.eu

TUESDAY 16 APRIL - PROGRAMME

Times	Hall 8C	Hall 8A-1	Hall 8A-2	Hall 8A-3	Hall 8A-4	Hall 8A-5	Hall 8A-6	Hall 8B	Hall 8D		Times	Hall 2A	Hall 2B	Hall 2C	Hall 3A	Hall 3B	Hall 3C	Dodder 5A	Dodder 5B	Hall 6	Hall 7
08:30 - 09:30												***Technical 1.4.3*** Urban Planning and Public Transport	***Technical 1.1.6*** Safe and Unsafe Behaviour of Road Users (1)	***Technical 1.1.7*** Safety of PTWs and E-scooters	***Technical 1.4.4*** Transport Economics	***Technical 4.3.3*** Mobility on Demand	***Technical 3.1.2*** New Design of Road Materials	***Technical 3.1.3*** Rail Maintenance	***Technical 3.1.4*** Energy Efficiency	***Technical 2.1.11*** Rural Transport (2)	
08:30 - 08:45											**08:30 - 08:45**	Economic Assessment of Free Public Transport in Athens Mrs Julia Roussou	Next-day effects of social drinking on driver fatigue and driving performance Dr Christer Ahlström	Measures for reducing risky behaviour of motorcycle riders on curvy mountain roads Dr Miha Ambrož	European Regional Airports: The Gathering Storm? Mr Noel Hiney	CCAM for the users; Matching the user needs with vehicle capabilities in ULTIMO project Ms Evangelia Gaitanidou	Experimental evaluation of the ageing effects on skid resistance of asphalt pavements Dr Vítor Antunes	Detection of Rail Surface Defects based on Axle Box Acceleration Measure-ments: Mea-surement Campaign in Sweden Miss Wassamon Phusakulka-jorn	Exploring the Insights from Trans-portation Networks: A Multilayer Network Approach to Distribution Systems Onboard Ships Ms Evelien Scheffers	Decentralized Demand-Driven Logistics Model for Sparsely Populated Areas Mr Veikko Pekkala	
08:45 - 09:00											**08:45 - 09:00**	Using travel vouchers to incentivize public transport ridership. Mental account bias among public transport users Mr Luis A. Guzman	Spatio-temporal Analysis of Speed Limit Exceedances in Dublin Using Low-cost Sensors and Citizen Science Dr Anna Molter	Using a Motorcycle Probe Vehicle to Provide Infrastructure Information for Powered Two Wheelers Dr Andreas Hula	A hybrid model for identifying locations for active mobility pathways using Real-Time Spatial-Delphi and GANs Mr Yuri Calleo	Automated mobility-on-demand services in the less dense and rural area Dr Tatiana Graindorge	Reduction of the curing-time and self-healing of cold asphalt mixtures by means of magnetic induction. Señor Christopher De La Fuente Navarro	A Hybrid Approach for Identifying Obso-lescence Features: Applied to Railway Signaling Infrastruc-ture. Mr Elie Saad	Energy efficient operations of Railway Switch heaters and feasibility study of using ground heat Mr Sidharth Kapoor	Overcoming barriers to implementing sustainable mobility strategies in rural areas: A case study in Turkey Mrs Hulya Zeybek	
09:00 - 09:15											**09:00 - 09:15**	Comparing access to services by public and private transport in Ireland to measure transport poverty Dr Alessandro Giordano	Comparison of road safety policies in Italy with Sweden, Poland and The Nederland's. Prof Maurizio Tira	Influence of Contrasting Colours on the Drivers' Ability to Detect E-scooter Riders Miss Galina Komova	Sustainability and Value Propositions of Smart Mobility Projects in Rural Areas Mr Shahid Hussain	Transforming Ridesharing: Harnessing Role Flexibil-ity and HOV Integration for Enhanced Mobility Solutions Dr Patrick Healy	Compari-son of the Economic and Environ-mental Costs of Different Rehabilitation Designs for Local Road Pavements Dr Greg White	Ballasted Track Renewal For High-speed Mobility Mr Avril Bertrand	Ship Performance and Energy Consumption Evaluation Based on Modular Design Approach Dr Anh Thu Pham	Preferences of rural travelers towards de-mand respon-sive transport Mr Dániel Tordai	
09:15 - 09:30											**09:15 - 09:30**	ISO Standards for Urban Planning and Transport in Future Sustainable Medium-Size Cities Mrs Anabela Salgueiro Narciso Ribeiro	Investigating the influence of mobile phone use on driving behavior with Machine Learning analysis Mr Konstantinos-Eirinaios Kaselouris	Development of an e-scooter simulator Mr Athanasios Athanasatos	Enhanced Demand Forecasting & Digitalisation Mr Kevin Cox	Predicting Demand and Supply in a Real-Time Traffic Management Framework Dr Athina Tympaki-anaki	Feasibility of Concrete Paving Blocks produced with By-products from Construction and Coconut Industries Prof. Luís Picado-Santos	How Does Circular Economy Disrupt Business Models: the Case of Ballast Reuse in Railway Projects Dr Joseph Mansour Salamé	Assess-ment of an integrated cooling/ HVAC circuit for electric heavy quadricycles Assoc. Prof. Daniele Chiappini	Decarboniz-ing Maritime Corridors: How Carbon-Neutral Shipping Creates Environmental, Economic, and Social Impacts Mr Henry Schwartz	

#TRA2024 | The RDS, Dublin | 15 - 18 April 2024 | www.traconference.eu

WEDNESDAY 17 APRIL - PROGRAMME

Times	Hall 8C	Hall 8A-1	Hall 8A-2	Hall 8A-3	Hall 8A-4	Hall 8A-5	Hall 8A-6	Hall 8B	Hall 8D
09:30 - 09:45	MOVE BETWEEN SESSIONS								
09:45 - 11:00									
09:45 - 10:00									
10:00 - 10:15	**Poster Sessions**	***Special Session 4.1*** Collabat Battery Projects Joining Forces to Support Uptake of Sustainable Green Mobility	***Special Session 4.2*** Prescriptive and Predictive Maintenance in the Transport Landscape	***Special Session 4.3*** Predicting and Avoiding Road Crashes with AI - an Opportunity for International Cooperation?	***Special Session 4.4*** Infrastructure Support for CCAM (Cooperative Connected Automated Mobility) – Digital infrastructure, Connectivity, Remote Management	***Special Session 4.5*** Innovations Supporting Waterborne Greening and Decarbonisation	***Special Session 4.6*** Collaborative Planning of Infrastructure and Spatial Development to Meet the Emerging Challenges		
10:15 - 10:30									
10:30 - 10:45									

Times	Hall 2A	Hall 2B	Hall 2C	Hall 3A	Hall 3B	Hall 3C	Dodder 5A	Dodder 5B	Hall 6	Hall 7
09:30 - 09:45	MOVE BETWEEN SESSIONS									
09:45 - 11:00	***Technical 2.1.12*** SUMPs and Policy Design	***Technical 1.1.8*** Safe and Unsafe Behaviour of Road Users (2)	***Technical 3.2.2*** Network / System Performance (1)	**Technical 1.1.9** Detection Methods for Road Safety Improvement	***Technical 4.3.4*** CCAM Enablers	***Technical 2.3.5*** Impact Assessment	***Technical 4.1.1*** Traffic Management and Operations		***Technical 3.1.5*** Pavement Monitoring	
09:45 - 10:00	Sustainable Urban Mobility: Implementation and Impact Michal Reut - Gelbart	Unveiling driving behaviour patterns during a naturalistic driving experiment Mrs Virginia Petraki	Non-Contact Measurements of Wind Turbine Blades Repurposed as Pedestrian Bridges Mr. Hugh Irving	3rd generation safety indicator for traffic lights: data driven risk approach based on existing data Mr Luuk Misdom	Type-Approval Requirements for ADS in Europe Mr Carlos Lujan	Preserving Biodiversity in Railways: Global Strategies for Sustainable Habitat Management Mr Lorenzo Franzoni	A real time decision-support tool for traffic management Mr Charles-Frédérick Amaudruz	***Special Session 4.7*** Decarbonisation of Hard to Abate Sectors	Determining transverse properties in pavement, using a Traffic Speed Deflectometer with two measuring beams Helen Pehrsson	**Host Session - The Deployment of Sustainable Mobility at National Level - Linking Policy to Implementation**
10:00 - 10:15	Improvement of SUMP-Methodology for Climate Mitigation Dr Konstantin Krauß	Rear Lights on Cars by Daytime: A Field Experiment and a Web Experiment–Survey Dr Björn Lidestam	Simulation based infrastructure critical boundary identification for multi-modal transport hubs Dr Juliette Marais	Choosing Computer Vision based Technologies for Traffic Safety Assessment at Intersections Mr Yuelin Liang	Road safety impacts of Advanced Driver Assistance Systems: Insights from Austrian data Wolfram Klar	Modelling cities' pathways to zero-emission urban mobility through the simulation of 5 European cities. Mr Stefano Borgato	Boosting public transport through innovative IT solutions that match needs and expectations of all stakeholders Mr Mehdi Zarehparast Malekzadeh		Distributed Sensing System Based on FOS Technology for Road Infrastructure Management and Maintenance Mr Daniel Luceri	
10:15 - 10:30	Empowering Cities: Unveiling the Innovative Urban Mobility Ecosystem to support the transition through City-led Innovations Dr. Georgia Ayfantopoulou	Can safe driving patterns be identified? An exploratory analysis Prof. Eleonora Papadimitriou	Transport network planning and analysis decision-support tool for South Asia Ms Maria Antoniou	Characterisation of road friction based on vehicle telematics data Dr Ramesh Perera		Model-Based Assessment of the Cruising Traffic and the Environmental Impact of Parking-Related Measures Dr Alexandre Nicolas	Digitalising the Process of Direct Traffic Control for Safe Train Operations in Structurally Transforming Areas Mr Lukas Pirl		Vision-based multi-perspective road pre-damage detection Dr Christos Vlachakis	
10:30 - 10:45	Effects of street space redesign on travel demand in Berlin, Germany Dr Simon Nieland	Public Road Tests of Automated Lane Keeping Systems under UN Regulation No. 157 Mrs Giulia Morandin	Radar Satellite Observations of Bridge Deformations-A new Method for Monitoring without applied Sensors Dr. Philip Leopold	High Density Observation Network for Near Real Time Detection of Hail Events Mr Daniel Johns		Projecting Traffic Flows for Road-Based Passenger Transport in Europe for Climate Impact Analyses Ms Nina Thomsen	The Missing Piece to the Puzzle: Advancing Train Planning for a Digital Great British Railway Ms Nadia Hoodbhoy		Probability Based Pavement Asset Management on the Irish National Road Network Prof. Alan O'connor	

#TRA2024 | The RDS, Dublin | 15 - 18 April 2024 | www.traconference.eu

WEDNESDAY 17 APRIL - PROGRAMME

Times	Hall 8C	Hall 8A-1	Hall 8A-2	Hall 8A-3	Hall 8A-4	Hall 8A-5	Hall 8A-6	Hall 8B	Hall 8D
10:45 - 11:00	**Poster Sessions**	***Special Session 4.1*** Collabat Battery Projects Joining Forces to Support Uptake of Sustainable Green Mobility	***Special Session 4.2*** Prescriptive and Predictive Maintenance in the Transport Landscape	***Special Session 4.3*** Predicting and Avoiding Road Crashes with AI - an Opportunity for International Cooperation?	***Special Session 4.4*** Infrastructure Support for CCAM (Cooperative Connected Automated Mobility) – Digital infrastructure, Connectivity, Remote Management	***Special Session 4.5*** Innovations Supporting Waterborne Greening and Decarbonisation	***Special Session 4.6*** Collaborative Planning of Infrastructure and Spatial Development to Meet the Emerging Challenges		
11:00 - 11:30	COFFEE BREAK								
11:30 - 13:00	**Plenary - Efficient and Resilient Infrastructure**								
13:00 - 14:30	LUNCH & EXHIBITION								
14:30 - 14:45	**Poster Sessions**	***Special Session 5.1*** Bridging Roads Infrastructure and Vehicles: Synergies in European Transport Research	***Special Session 5.2*** Decarbonizing Freight Transport and Logistics by Increasing the Use of Waterways	***Special Session 5.3*** Best practices and synergies to deploy EU Research & Innovation with CINEA and European Transport Partnerships - towards a Common EU Transport Area	***Special Session 5.4*** Electrical Road Systems	***Special Session 5.5*** Driving Towards Sustainable Logistics: Facilitating Energy Transition in Logistics			
14:45 - 15:00									

Times	Hall 2A	Hall 2B	Hall 2C	Hall 3A	Hall 3B	Hall 3C	Dodder 5A	Dodder 5B	Hall 6	Hall 7
10:45 - 11:00	15minute City: a holistic approach in the frame of SUMPs Prof. Andres Monzon	Predicting risky driving behavior with classification algorithms: Results from a large-scale field-trial and simulator experiment Mr Thodoris Garefalakis	Using accelerometers on an in-service train to detect bridge damage and repair Dr. E. Alexandra Micu	Naturalistic Spatial Road Safety Analysis: The SmartMaps Project Mr. Dimitrios Nikolaou	An Edge-enabled Service-oriented Architecture for Connected, Cooperative and Autonomous Mobility Dr Fatemeh Golpayegani	Who will travel more by automated cars? Assessing mobility impacts using surveys Dr Esko Lehtonen	Motorway traffic flow optimization: from theory to practice Dr Robert Corbally	***Special Session 4.7*** Decarbonisation of Hard to Abate Sectors	Fiber-optic technology for monitoring asphalt roads - Results of a feasibility study Dr Martin Peter Lipus	**Host Session - The Deployment of Sustainable Mobility at National Level - Linking Policy to Implementation**
11:00 - 11:30	COFFEE BREAK									
11:30 - 13:00										
13:00 - 14:30	LUNCH & EXHIBITION									
14:30 - 14:45	***Technical 4.1.2*** AI and Machine Learning	***Technical 2.4.6*** Freight and Logistics Decarbonization Assessment	***Technical 3.2.3*** Network / System Performance (2)	***Technical 4.4.1*** Enhanced Knowledge Through Digital Frameworks	***Technical 4.1.3*** Structural Health & Performance Monitoring	***Technical 3.1.6*** Pavement Performance	***Technical 3.1.7*** Rail Condition Monitoring	***Technical 4.3.5*** Communication and Positioning	***Technical 3.2.4*** Digital Resilience	The Future of Transport in Europe **PLEASE NOTE: 2PM START**
14:45 - 15:00	AI and data-driven approach for next generation traffic management Ms Gerogia Gkioka	On a method for computing emissions in freight transportation Dr Wolfgang Ponweiser	Resilience Assessment and Adaptation for Critical Infrastructure – Modelling Resilient Infrastructure Systems Dr Margreet van Marle	Dynamic 2D scene analysis inside train compartments using deep learning techniques Ankur Mahtani	Can European Shipyards be Smarter? A proposal from the SEUS Project Prof. Ícaro A. Fonseca	Merimbula airport: a case study on a sustainable and resilient airport pavement rehabilitation and expansion Dr Greg White	Improving the planning of future track interventions using digital tools Mr Hamed Mehranfar	Field Study of FRMCS Use Cases in the 5GRAIL Project Dr Nazih Salhab	Developing a risk assessment methodology for analyzing the resilience of railway assets to climate change Dr Anas Dabaj	
15:00 - 15:15	The possibilities to increase destination choice model accuracy of activity-based models with machine learning Ms. Ilona Rahnasto	Accounting for environmental impact in air traffic network operations: emissions, costs and policies. Prof. Gustavo Alonso	Estimating the energy demand of electric vehicles for charging infrastructure planning Mr Peter Widhalm	Framework for Rail Level Crossings Digital Twin Development Dr Boban Djordjevic	MAPSIA: Automated Pavement Distress Detection for Optimal Road Maintenance Planning Mr Saúl Cano-Ortiz	Bayesian Modelling Approaches for Probabilistic Prediction of International Roughness Index of Flexible Pavements Dr Yiming Zhang	Innovative Condition Monitoring of the Extended Track by Means of LiDAR-Scanner Mr Jan Schatzl	Centimeter-level GNSS Positioning Using C-ITS for Correction Data Delivery: An Experimental Study Mr Roman Lesjak	Serious game design for resilience enhancement of transportation infrastructure to cyber threats and/or flood hazards Dr Meisam Gordan	

#TRA2024 | The RDS, Dublin | 15 - 18 April 2024 | www.traconference.eu

WEDNESDAY 17 APRIL - PROGRAMME

Times	Hall 8C	Hall 8A-1	Hall 8A-2	Hall 8A-3	Hall 8A-4	Hall 8A-5	Hall 8A-6	Hall 8B	Hall 8D	
15:00 - 15:15										
15:15 - 15:30	**Poster Sessions**	***Special Session 5.1*** Bridging Roads Infrastructure and Vehicles: Synergies in European Transport Research	***Special Session 5.2*** Decarbonizing Freight Transport and Logistics by Increasing the Use of Waterways	***Special Session 5.3*** Best practices and synergies to deploy EU Research & Innovation with CINEA and European Transport Partnerships - towards a Common EU Transport Area	***Special Session 5.4*** Electrical Road Systems	***Special Session 5.5*** Driving Towards Sustainable Logistics: Facilitating Energy Transition in Logistics				
15:30 - 15:45										
15:45 - 16:15	COFFEE BREAK									
16:15 - 17:30	***Strategic Session 3.4*** Sustainable Alternative Fuels							***Strategic Session 3.1*** The Resilient Transport Network: Enhancing and Maintaining Europe's Infrastructure to Cope with Decarbonization and Climate Change	***Strategic Session 3.2*** - Circular Economy Ecosystems for EU Transport	
17:30 - 17:45	MOVE BETWEEN SESSIONS									

Times	Hall 2A	Hall 2B	Hall 2C	Hall 3A	Hall 3B	Hall 3C	Dodder 5A	Dodder 5B	Hall 6	Hall 7
15:00 - 15:15	Gamification of Early-Stage Planning, Participation and Education in Urban Mobility: the MobileCityGame Dr Claus Doll	Sustainable Mobility: The Contribution of Railways to Decarbonization Mr. Vítor Antunes	Capacity Utilisation of Public Fast Charging Stations in Norway Dr Odd André Hjelkrem	Adaptive Supply Chain Stress Testing Framework with Deep Learning Dr Cemalettin Ozturk	Smart Self-sensing Composite Marine Propeller : Increased maintenance efficiency through integrated structural health monitoring systems Dr Aldyandra Hami Seno	Further development and implementation of a mechanistic-empirical design and analysis system for pavement structures in Norway Dr Brynhild Snilsberg	A Data-Driven Framework for Detecting Railway Maintenance Needs Using Acceleration Data Collected from Passing Trains Dr Ramin Ghiasi	5G Realistic radio channel models For FRMCS deployment in Railway Environments Dr Marion Berbineau	MetProGre: a Decision Support Tool to Assess Weather Risk in Railway Renewal Work Scheduling Dr Camille Morvant	The Future of Transport in Europe **PLEASE NOTE: 2PM START**
15:15 - 15:30	Research achievements and future priorities of artificial intelligence in transport systems Miss Elodie Petrozziello	Energy Consumption Evaluation of Emerging and Current Vehicle Fleets in Urban Logistics Mr Raphael Andreolli	Methodology for Continuous Planning of Charging Infrastructure in the Face of Uncertainty and Change Mr. Ehsan Saqib	Enhancing The Performance of Emergency Vehicles Through Reinforcement Learning Based DVSL Control System Ms Fatemeh Bandarian	UAV integration into airport infrastructure inspection procedures - case study Zagreb airport Prof. Matija Bračić	GPR and FWD to Assess the Structural Condition of Pavements Detecting moisture in roads Dr Abubeker Ahmed	Boosting holistic railway infrastructure monitoring and health prediction by integrated data sets and analysis Dr Thorsten Neumann	Time Matters: Evaluating a Road Operator Event Management System using Vehicle eCalls Mr Immanuel Frötscher	On the Capacity of Roadside Communication Networks for Supporting the Delivery of Emerging C-ITS Services Dr Piraba Navaratnam	
15:30 - 15:45	Machine Learning Framework to Estimate Ridership Loss in Public Transport during External Crises Ms Mahsa Movaghar	Impact of the COVID-19 and Russian-Ukrainian War on rail freight transportation – Analysis of Turkey Mrs Hulya Zeybek	Transitioning towards Area-oriented Approaches in Transport Infrastructure Planning: An Analysis of European Best Practices Prof. Jos Arts	Software patterns and architectural decisions for a NextGeneration Traffic Management System in the TANGENT project Mr Daniel Matos	OMICRON. An Intelligent Road Asset Management Platform Mr Jose Solis-Hernandez	Life Cycle Analysis of Low-carbon, Roller Compacted Concrete (RCC) Pavements Ms Alexandra Telford	Spectral characterization of the rail surface in urban environments using in-service vehicles Dr Benjamin Baasch	Neuronal Networks to Analyze Accessibility and GPS Data: a Case Study of Santo Domingo Ms. Amparo Isabel Álvarez Poyó	A Simulation-Based Assessment of the Effectiveness of Vehicular ad-hoc networks in Enhancing Transportation Resilience Miss Aihui Hu	
15:45 - 16:15	COFFEE BREAK									
16:15 - 17:30	***Strategic Session 3.3*** Electrification of Land Transport									
17:30 - 17:45	MOVE BETWEEN SESSIONS									

#TRA2024 | The RDS, Dublin | 15 - 18 April 2024 | www.traconference.eu 103

Times	Hall 8C	Hall 8A-1	Hall 8A-2	Hall 8A-3	Hall 8A-4	Hall 8A-5	Hall 8A-6	Hall 8B	Hall 8D	
17:45 - 18:45										
17:45 - 18:00	Ministerial Host Roundtable - Investment and Delivery for Global Competitiveness									
18:00 - 18:15										
18:15 - 18:30										
18:30 - 18:45										
19:00 - 21:00										

Times	Hall 2A	Hall 2B	Hall 2C	Hall 3A	Hall 3B	Hall 3C	Dodder 5A	Dodder 5B	Hall 6	Hall 7
	Technical 1.1.10 Safety of Cycling	***Technical 1.1.11*** Analysis of Road Safety	***Technical 3.4.2*** Environmental Sustainability (1)	***Technical 3.1.8*** Future Construction Systems	***Technical 4.3.6*** Freight and Logistic Operations and Fleet Management	***Technical 3.3.2*** Circular Infrastructure Design (1)	***Technical 3.3.3*** Circular Economy for Energy	***Technical 4.2.1*** National and Cross-Border Data Interop-erability	***Technical 3.2.5*** Road Asset Management	
17:45 - 18:00	Characteriza-tion of accidents with cyclists in Lisbon: Study on the Built Environment Factors. Prof. Luis de Picado Santos	Road safety in Low- and Middle-Income Countries - Analysis and recommenda-tions Prof. George Yannis	Exnovations and its impact on mobility & energy justice: Evidence from five case-studies in Europe Dr Samyajit Basu	Advanced Leveling in Road Construction - Development and Site Testing Mr. Torsten Schönbach	Autonomous heavy-duty vehicles in logistics: market trends, opportunities, and barriers Ms Loha Hashimy Shafaq	Development of a bio-based emulsion for road pavement construction and maintenance Prof. José Neves	Towards a Sustainable Design and Circular Economy for Hybrid EV Batteries Dr Victor Ferreira	The PRESORT Project: ImPRoving thE uSe Of third-paRTy data by National Road Authorities Dr Scott Stephenson	Geohazard Susceptibility Mapping using Publicly Available Datasets for the Irish Road Network Mr Cathal Mac An tSearraigh	
18:00 - 18:15	Safe Route Algorithm for Vulnerable Road Users Mrs Maria Pohle	Unfolding the dynamics of driving behav-ior: A machine learning analysis from Germany and Belgium Mrs Stella Roussou	Simulation-Based Optimization for Sustainable Textile Waste Collection Routes Mr José Luis López	The Norwegian Approach to Future Design, Construction, Maintenance, and Rehabilita-tion of Asphalt Pavements Dr Sara Anastasio	Fleet and traffic management systems for conduct-ing future cooperative mobility Prof. Gregor Papa	Biobased pavement: lab assess-ment of a recycling technique without petro-leum bitumen addition in Irish context Dr Emmanuel Chailleux	Analysis of pre-recycling phases of end-of-life electric vehicle lithium-ion batteries from an Irish perspective Mr Matt McGuinness	Cross-Border Data Exchange to Improve Traffic Manage-ment and End-User Information Services in Central Europe Mr Wolfgang Kernstock	INFRACOMS appraisal toolkit for NRAs to assess emerging technologies in bridge and pavement management Mr Ali Yeganeh	
18:15 - 18:30	Oxford roundabout and the art of safety: resistance to cycling infrastructure intervention Dr Yannick Cornet	Road risk disparities in French overseas territories Mr Mohamed Mouloud Haddak	Integrating TCO and Sustainability Requirements: ESCALATE Pro-Active Design and Manufacturing Approach for Enhanced Electric Fleets Prof. Zissis Samaras	Advances in steel FSW for transport applications MSc Niels Troost	SHINE-Fleet: Spanish initiative for sustainable freight transport taking advantage from Hy-drogen and Automated driving Mr Iker Pacho	Rejuve-nation of high-content reclaimed asphalt mixtures with bio-heating oil: Labo-ratory and plant-pro-duced experience Prof. Silvino Capitão	Life Cycle Environ-mental Performance of Diesel, Fuel Cell, and Battery Electric Long-Haul Heavy-Duty Trucks Dr Linda Ager-Wick Ellingsen	Enhancing accessibility and interop-erability of mobility data: mobilityD-CAT-AP, a metadata specification for mobility data portals Mr Peter Lubrich	CEMBOX. Digital Twin Oriented Infrastructure Asset Management Platform Mr Jose Solis-Hernandez	
18:30 - 18:45	CRUSE to safe cycling in Ireland: an open source methodology to support active travel Robin Lovelace	Empirical Analysis of Risk Factors Associated with Two-Lane Rural Road Crashes under Mixed Traffic Conditions Mr Parveen Kumar	Uncertainty analysis in the sustainability assessment of transport infrastructure Miss Andrea Vargas Farias	Socioeconomic Assessment of Electric Road Systems	Enhancing urban convoying safety by mechanical connection among automated vehicles: simulation study on controlled trajectories Mr Michelan-gelo-Santo Gulino	Laboratory and field study of high-rate recycled asphalt pavement rejuvenated with Waste Cooking Oil Prof. Silvino Capitão	Project EcoFuel: Renewable electricity-based, cyclic and economic production of fuel Mr Johann Bachler	AI-assisted services for content acquisition and creation interlinking in transport research Dr Afroditi Anagnost-opoulou	A contribution for a sustainable, resilient road infrastructure management from Brisa, a Portuguese Road Concessionaire Ms Carina Vieira	
19:00 - 21:00										**Host Fire-side Chat - Women in Transport - Agents of Change**

WEDNESDAY 17 APRIL - PROGRAMME

Times	Hall 8C	Hall 8A-1	Hall 8A-2	Hall 8A-3	Hall 8A-4	Hall 8A-5	Hall 8A-6	Hall 8B	Hall 8D	
08:30 - 08:45	Thursday Host Roundtable - Research and Innovation									
08:45 - 09:00										
09:00 - 09:15										
09:15 - 09:30										
09:30 - 09:45	MOVE BETWEEN SESSIONS									

Times	Hall 2A	Hall 2B	Hall 2C	Hall 3A	Hall 3B	Hall 3C	Dodder 5A	Dodder 5B	Hall 6	Hall 7
	Technical 2.4.7 Electrified Road Freight Operations & Experiences	***Technical 1.1.12*** Prediction of Road Safety Risks	***Technical 3.4.3*** Environmental Sustainability (2)	***Technical 4.4.2*** Connectivity and Data Exchange	***Technical 4.3.7*** Physical and Digital Infra-structure	***Technical 3.3.4*** Circular Infrastructure Design (2)	***Technical 4.2.2*** Best Practices on Mobility Data Exploitation	***Technical 4.3.8*** Legal Aspects of Automated Mobility	***Technical 3.2.6*** Future Operations Resilience (1)	
08:30 - 08:45	Regional electrified logistics system demonstrator in Sweden -economic comparison of electric and diesel-powered solutions Mr Andreas Josefsson	COFACY: From Behavior To Cycling Accident Factor Dr Samuel Aupetit	Environmental Assessment of Components for Trains Based on the Use of Fiber Reinforced Plastic Dr Eduardo De La Guerra	Frugal connectivity for railway applications Mr Pierre Le Corre	From Concept to Reality: Augmented PDI solutions supporting Connected, Cooperative and Automated Mobility in Madrid Ms Ana Martínez Roselló	Foamed Bitumen Stabilisation of Basecourse on Brand Highway, Western Australia Mr Riaan van Wyk	An Analysis of Dock-less Bike Sharing Service in Dublin, Ireland Dr Bidisha Ghosh	Trustworthy AI on the road: A legal perspective Dr Nynke Vellinga	Leveraging multiple data sources to measure the impact of variable speed limits on Ireland's M50-motorway Dr Robert Corbally	
08:45 - 09:00	Review of Electric Vehicle Routing Problems in last mile logistics and shared mobility options Ms Clíodhna Ní Shé	Future Crash Configura-tions: Analysis of the Impact of Future Vehicles in Mixed Traffic Friederike Kuhl	Application of ENROAD tool for pre-feasibility evaluation of renewable energy projects within the road environment Mr Eugenio Sainz Ortiz	The 5G-RACOM Project: 5G for Resilient and Green RAil COM-munications Dr. Richard Fritzsche	Results from CEDR-work done around Intelligent Access Mr Thomas Asp	Highly Recycled Asphalt Pavement: Recommen-dations for Producers and Road Owners Dr Martins Zaumanis	Utilizing Train Traffic Data for Delay Prediction: Developing a Model and Comparison with Current Practice Dr Pranjal Mandhaniya	User-centred design for CCAM: a Holistic Approach Combining Stakeholders and Users' Needs with Regulatory Require-ments Mrs Paola Lanzi	Flight Centric ATC: Reflecting Three Years of Research on an Efficient and Eco-friendly Air Traffic Mr Tobias Finck	
09:00 - 09:15	Exploring Profitability Tradeoffs and Uncertainties for Electric- and Autono-mous Electric Trucks Using Compu-tational Experiments Mr Albin Engholm	Use of Acci-dent Predic-tion Models in Road Safety Management – An Irish case study. Mr Nathan Harpham	Exploration and synchro-nization of greening of shipping by means of retrofit: The SYNERGET-ICS perspective Dr Igor Bačkalov	Improving data exchange in transport and logistics through System Federation: Application evaluation results and recommenda-tions Mr Sofoklis Dais	EXCLUSIVE AND CON-TROLLED 5G NETWORK FOR DEVEL-OPMENT OF CONNECT-ED AND AUTOMAT-ED VEHICLE TECHNOLO-GIES Mr Paul Salvati	Designing pavement infrastructure with alternative recycled materials Dr Shafiqur Rahman		Decision-making process for (National) Road Authorities to invest in information support for Automated Driving Systems Prof. Risto Kulmala	Airport Termi-nal Resilience under Future Operations: a systems theory agent-based simulation study Mr Idoaldo Jose De Lima	
09:15 - 09:30	E-Charge: Electrifying long-haul road freight transport Mr Nikita Zaiko	Exploitation of naturalistic driving data to estimate crash risk through machine learning techniques Mr Spyros Tsigos	Hydrogen-powered Rail Maintenance Vehicle: System design and emissions assessment Dr Lorenzo Bartolucci	Border Crossing Connectivity for CCAM vehicles: A Field Test at the Norwegian-Swedish Border Mr Ola Martin Lykkja	A Framework for Road Authorities to Assess Their Readiness to Support Connected and Automated Driving Dr Ianto Guy	Refining Design Approaches and Implementing the Material Matrix Assessment to Foster Structural Components Circularity Dr Engy Ghoniem	MBSE Approach for Railway Digital Continuity Dr Sana Debbech	Simulation Platform to Analyse Future Traffic Regulations for Automated Vehicles in a Mixed Traffic Environment Mr Felix Hofinger	An online tool for guiding bus fleet de-carbonisation through green hydrogen and electrification Mr Tadgh Cummins	
09:30 - 09:45	MOVE BETWEEN SESSIONS									

THURSDAY 18 APRIL - PROGRAMME

Times	Hall 8C	Hall 8A-1	Hall 8A-2	Hall 8A-3	Hall 8A-4	Hall 8A-5	Hall 8A-6	Hall 8B	Hall 8D	
09:45 - 11:00										
09:45 - 10:00										
10:00 - 10:15	Poster Sessions	***Special Session 6.1*** Feeding Education with Future Challenge-based Research on Cities	***Special Session 6.2*** Integrated Air and Rail Network for a Sustainable and Multimodal Transport System	***Special Session 6.3*** Success Factors and Added Value of International Cooperation in the Context of Inclusive CCAM Services – Learnings from Large-scale Demonstration Projects in the EU & Japan	***Special Session 6.4*** The Support of Road User Behaviour Analysis for Road Safety Improvement	***Special Session 6.5*** Disruptive Sustainable and Smart Guided Transport Solutions part of Europe's Future Mobility?	***Special Session 6.6*** Ports and Airports for a Green Transition of Mobility & Logistics			
10:15 - 10:30										
10:30 - 10:45										

Times	Hall 2A	Hall 2B	Hall 2C	Hall 3A	Hall 3B	Hall 3C	Dodder 5A	Dodder 5B	Hall 6	Hall 7
09:45 - 11:00	***Technical 4.3.9*** Modelling and Simulation	***Technical 4.1.4*** Digital Transition and Multimodal Integration	***Technical 3.2.7*** Network / System Performance (3)	***Technical 2.1.13*** Transport Choices	***Technical 4.2.3*** Management and Sharing of Mobility Data	***Technical 4.1.5*** Planning and Forecasting in Complex Networks	***Technical 4.4.3*** Data Supported Case studies		***Technical 3.2.8*** Future Operations Resilience (2)	
09:45 - 10:00	Impact Modelling of Cooperative Intelligent Transport Systems (C-ITS) - A System-Dynamics Approach using Causal Loop Diagrams Mr Manuel Walch	Digital Transformation in the Transportation Sector: Unleashing the Power of Data Mr Drew Waller	Managing European Railway Traffic Management System project: Challenges and lessons learnt from Denmark. Mr Kornpong Mahitthiburin	Netnography study to investigate end users' satisfaction with public transport in UPPER project's Living Labs Carolina Soriano García	Towards Privacy-preserving Connected Vehicles: A Blockchain Approach for Vehicle Identity Management and Data Sharing Dr Dermot O' Brien	Spatial density to supplement factors used for a screen line analysis and travel demand estimation Mr Florian Lammer	Improving cyclist safety and infrastructure planning: A data-driven case study of Cork City Council project Mr Usama Anwar	***Special Session 6.7*** Hydrogen for Heavy Duty Transportation: Working in Synergy with the Partnerships	An image-based system to improve freight capillaries circulations Dr Claire Nicodeme	
10:00 - 10:15	Network effects in C-ITS – an analysis approach based on conditional probability and system characteristics Dr Risto Öörni	Geofencing to accelerate digital transitions in cities: Experiences and findings from the GeoSence project Mr Rodrigue Al Fahel	Identifying Infrastructure Demand and Performance Changes Through Agent-Based Modelling Using Fuzzy Logic Mr Sander Mooren	A Discrete Choice Analysis of User Preferences in Micro-Mobility Transport Mr Pires Abdullah	A Methodology for Planning and Executing Mobility Data Labs: Fostering Collaboration, Data Sharing and Innovation Mr Alex Papachalampous	Collaborative digitalisation and the future of networked production: Exploring Decentralised Technical Intelligence in supply chains Dr Stefan Walter	AUTO-MODAL - Automation of inland container terminal cranes Solving people detection in the operating range. Mr Maximilian Schellert		Cooperation between a Human Traffic Manager and an AI Assistant to Improve Railway Infrastructure Resilience Dr Kahina AMOKRANE-FERKA	
10:15 - 10:30	A new generation Cable-driven Dynamic Driving Simulator for the Assessment of CCAM Deployment	Collaboratively Developing Mobility as a Service as a Digital Policy-Enabler Mr Oliver Coltman	Using travel demand modelling and traffic simulation for crisis management Dr Marco Marquard	Choice of a transport mode for trips to large environmentally protected areas in Czechia Dr Hana Bruhova Foltynova	Mitigation of disturbance impacts in MaaS system: Sharing data in an edge computing multimodal ITS Mr Igor Mikolášek	Processing Digital Railway Planning Documents for Early-stage Simulations of Railway Networks Mr Arne Boockmeyer	Digital Support for Public Transportation Operators, Challenges and Opportunities Dr Andoni Mujika		Railway Train Main Power Converter: Model Predictive Control of a Modular Multilevel Converter Prof. Vitor Monteiro	
10:30 - 10:45	Opensource Artificial Intelligence (AI) system for traffic flows monitoring. Evidences from the Interreg Mimosa project. Mr Denis Grasso	MegaBITS: Greening Urban Mobility through Smart Cycling Mr Ronald Jorna	Methodologies for Economic Assessment of Rail Technical Innovations: Challenges and New Perspectives Dr David Pierce	Stations of the Future: a study on EV charging stations considering users' requirements and expectations Dr Juan F. Giménez	Mobility data harmonisation: the TANGENT solution Dr Marco Comerio	Interactive Tool for Strategic Planning in a Railway Environment Ms Paula Lopez-Arevalo	Examining the impact of System Federation on transport and logistics: Cases in Greece and Italy Mr Sofoklis Dais		Agile Multi-Sensor Platform Leonardo: Evaluation of new Monitoring Technologies in an Operational Environment Henk Henk Samson	

THURSDAY 18 APRIL - PROGRAMME

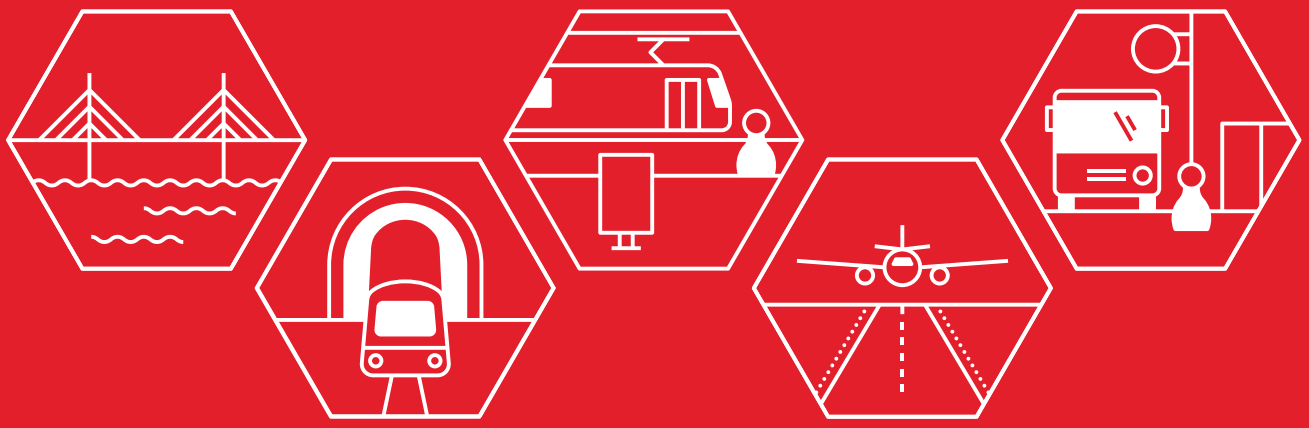
Times	Hall 8C	Hall 8A-1	Hall 8A-2	Hall 8A-3	Hall 8A-4	Hall 8A-5	Hall 8A-6	Hall 8B	Hall 8D	
10:45 - 11:00	Poster Sessions	***Special Session 6.1*** Feeding Education with Future Challenge-based Research on Cities	***Special Session 6.2*** Integrated Air and Rail Network for a Sustainable and Multimodal Transport System	***Special Session 6.3*** Success Factors and Added Value of International Cooperation in the Context of Inclusive CCAM Services – Learnings from Large-scale Demonstration Projects in the EU & Japan	***Special Session 6.4*** The Support of Road User Behaviour Analysis for Road Safety Improvement	***Special Session 6.5*** Disruptive Sustainable and Smart Guided Transport Solutions part of Europe's Future Mobility?	***Special Session 6.6*** Ports and Airports for a Green Transition of Mobility & Logistics			
11:00 - 11:30	COFFEE BREAK									
11:30 - 13:00	Thursday Plenary - Collaborative Digitalisation									
13:00 - 14:15	LUNCH & EXHIBITION									
14:15 - 15:30	***Strategic Session 4.3*** How to Achieve Transport Data Sharing?							***Strategic Session 4.1*** Connected, Cooperative and Automated Mobility: What Next for New Mobility Services?	***Strategic Session 4.2*** Human-Machine Interaction in a multimodal context	
15:30 - 16:30	CLOSING CEREMONY & VISION AWARDS (HALL 8C / SIMMONSCOURT)									

Times	Hall 2A	Hall 2B	Hall 2C	Hall 3A	Hall 3B	Hall 3C	Dodder 5A	Dodder 5B	Hall 6	Hall 7
10:45 - 11:00	Simulating the effects of connected and automated vehicles on traffic management Mr Tamás Attila Tomaschek	Privacy-Preserving and Passenger-Oriented Solutions for Air-Rail Multimodal Travels Dr Stefano Sebastio	Field validation of damage detection in a railway bridge Prof. Eugene OBrien	Postponing of school start times to cut traffic peaks – Why is it so hard? Mrs Helene Lidestam	Evaluating the Ability to Telecommute by the Potential Female Telecommuters by Logistic Regression Model Prof Abdul Azeez Kadar Hamsa	Utilizing Analytical Hierarchy Process (AHP) to Prioritize Network Benefits When Applying Novel Traffic Management Strategies Mr Marios Giouroukelis	Definition of the research groups and creation of the groups of interest in SINFONICA Dr Giulia Renzi	***Special Session 6.7*** Hydrogen for Heavy Duty Transportation: Working in Synergy with the Partnerships	Variable speed limit on motorway: A feedback control implementation Dr Bidisha Ghosh	
11:00 - 11:30	COFFEE BREAK									
11:30 - 13:00										
13:00 - 14:30	LUNCH & EXHIBITION									
14:15 - 15:30										
15:30 - 16:30	CLOSING CEREMONY & VISION AWARDS (HALL 8C / SIMMONSCOURT)									

Please note; *the following information was accurate at the time of distribution. For the latest updates please refer to the app.*

THURSDAY 18 APRIL - PROGRAMME

ARUP



Better outcomes for everyone.

Our integrated expertise in low- and zero-emission mobility, major infrastructure, policy advice, economics, freight and logistics delivers sustainable, resilient and inclusive design outcomes for cities, built on technical rigour, powerful data analytics and strategic assessment.

www.arup.com

Poster Sessions

Poster 1.1 Transport Safety 14:00 - 15:15 — Stage 1

Presenting Order	Paper Title	Presenting Author Names	Poster Board Number
1	Naturalistic Study Of Personal And Free-floating Electric Scooters: Profiles and Behaviours.	Dr Samuel Aupetit	4
2	A FRAMEWORK FOR INTERPRETING INFERENTIAL CRASH SEVERITY MODELS	Dr Jonathan Wood	40
3	Differences in drivers' attitudes and behavior towards ambulances and police vehicles	Mrs Kajsa Weibull	37
4	A Method for Short-term Network Screening	Dr Jonathan Wood	43
5	European research and innovation in support of transport safety	Mr Ilias Cheimariotis	7
6	Secondary Roads in Europe – Challenges and Opportunities for Progressing Road Safety	Mrs Veronika Valentova	31
7	Powered micromobility on the edge: The reality of critical interactions with other road users	Mrs Claire Naude	19
8	Using safety performance indicators to support and monitor road safety policies, the role of Trendline	Dr Wouter Van den Berghe	34
9	Gamified Smartphone App Engagement: Comparative Analysis of Belgian and UK Car Drivers of i-DREAMS Project	Mr Muhammad Wisal Khattak	13
10	Examining the Influence of Traffic Enforcement on the Development of Traffic Safety Culture	Elena Provatari	25
11	Monitoring National Road Safety Strategies in the EU	Mr Konstantinos Kaselouris	10
12	Outcome Evaluation of i-DREAMS (H2020 Project) Interventions: Multi-Country Comparison of Driving Behavior	Mr Muhammad Wisal Khattak	16
13	Education And Road Safety Among Young Drivers With A-tractors and Moped Cars	Assoc. Prof. Helena Selander	28
14	Development of new road traffic safety assessment methodology	Dr Miha Ambrož	189
15	The Deployment of Smart Micro Detectors for Detecting Cyclists at Signalised Junctions in Dublin City	Dr Liam O'Brien	22

Poster 1.2 People-centred & Inclusive Mobility 14:00 - 15:15 — Stage 2

Presenting Order	Paper Title	Presenting Author Names	Poster Board Number
1	Incorporating Individual Preferences in Multimodal Trip Planning	Dr Andreas Nikiforiadis	73
2	Art Competition as a Creative and Participatory Tool for Promotion of Sustainable Mobility	Miss Oona Uusitalo	91
3	Influencing alertness through remote coaching for professional drivers	Prof. Ashleigh Filtness	58
4	Automated shuttles as a mobility solution – a user-oriented evaluation of a living-lab in Linköping-Sweden	Dr Anna Anund	46
5	Exploring Citizens' and Business' Acceptance of New Pedestrianisations in Madrid	Ms Mari Luz Brown-rigg-Gleeson	52
6	Evaluation of Bridge Inspection Training Including Novel VR Element on the Objectivity of Current Inspectors.	Mr Kristopher Campbell	55
7	For the Price of Freedom - Transport behavior and possibility of change	Mr Gustav López Svensson	67

8	Factors Affecting the Yielding of the Priority to Pedestrians	Ms Nóra Krizsik	64
9	"Please hang in there!": User Acceptance as a Key Element for a Successful Charging Infrastructure	Mr Divy Ravikiran Gupte	61
10	Qualified workforce for greener ports	Prof. THEOCHARIS TSOUTSOS	88
11	Revolutionizing Urban Safety: Multi-Functional L7 Vehicles with Enhanced Safety	Mrs Emilia Romero	82
12	AWARE2ALL: human centric interaction and safety systems for increasing the share of automated vehicles	Dr Marcos Nieto	70
13	Adapting Mass Transit Stations to Passengers' Cognitive Load: a Virtual Reality Study	Dr Allan Armougum	49
14	Railway Cultural Mindset	Ms Virginie Papillault	79
15	Public Transport Performance and Accessibility Patterns in European Capitals: Comparative Study	Dr Marcin Stepniak	85
16	Traffic simulation and safety assessment requirements for enhancing road safety prediction tools	Miss Maria Oikonomou	76

Poster 1.3 Impact on Health & the Environment 14:00 - 15:15 Stage 3

Presenting Order	Paper Title	Presenting Author Names	Poster Board Number
1	Opportunities to Rehabilitate Peatlands via Transportation Projects	Dr Paul Kissane	121
2	Developing a Biodiversity Accounting Methodology for Use on Linear Infrastructure Projects in Ireland	Madden Donncha	130
3	Remote Monitoring of Habitats to Support Management of Biodiversity Alongside Railways Across Britain	Dr Neil Strong	133
4	Investigating the Role of Parental Pro-Environmental Behaviors and Attitudes in Adolescents' Travel-to-School Mode Choices	Mr Jinpeng Li	127
5	Transport Sectors' Real-world Emissions: from Gaseous Precursors to Secondary Aerosol Formation in Urban Air	Mrs Päivi Aakko-saksa	94
6	Enhancing biodiversity during the development of transport infrastructure in Ireland	Ms Eimear Fox	109
7	Development of new standard for the treatment of noise from national road projects in Ireland	Dr Eoin King	118
8	Driving Toward the Future: Assessing Electric Automated Vehicle Deployment Scenarios in Suburban Areas - A Case Study of Grorud Valley, Norway	Ms Nicole van den Boom	136
9	Effects of Teleworking in Air Quality in the COVID-19 Pandemic: A Spanish case-study	Mr Jorge Bañuelos-Gimeno	100
10	Model of Societal Cost of Travel for Real Time Urban Traffic Management supporting V2I systems	Dr. Athanasios Koukounaris	124
11	Estimating the socio-economic impacts of cycling in the EU	Mr Holger Haubold	112
12	Managing Biodiversity in the Port Sector: Experiences from Three World Ports.	Dr Michele Acciaro	97
13	Does public transport use increase the probability of COVID-19 infection? Individual-level analysis in Madrid (Spain)	Miss Lucía Tapiador	139
14	Experiences, valuable activities, and worthwhile travel: A comparison of e-cycling and conventional cycling trips	Hannah Hook	115
15	Walkability as a catalyst for more sustainable mobility patterns and urban rehabilitation in Rome	Dr Maria Vittoria Corazza	106
16	A Data-driven Finer-grained Spatiotemporal Modelling Method for Pavement Distress Evolution	Dr Weiwei Chen	103

Poster 1.4 Transport Policy 14:00 - 15:15 Stage 4

Presenting Order	Paper Title	Presenting Author Names	Poster Board Number
1	Administration of Abnormal Vehicles on the Irish National Road Network	Mr Lorcan Connolly	166
2	An analytic lens towards Electric Vehicle Policy of India	Dr Mohit Dev	142
3	Assessment of Parking Policy in Case of Tier II Cities in India: Case of Aurangabad	Miss Sanika Sahasrabudhe	176
4	Settlement Size Depending Differences of Rebound in Long-Distance Railway Patronage	Mr Vilmos Oszter	178
5	Developments in Asset Management in Transport Infrastructure Ireland (TII)	Mr Gerard O'Dea	169
6	National Road 2040 and Active Mode Connectivity	Mr Robbie English	145
7	In the Loop: The Application of System Dynamics in Transport	Dr Gillian Harrison	154
8	The Public Balance of Transport in Hungary 2004-2022	Mr István Kövesdi	160
9	A Multicriteria Framework for the Evaluation of qualitative and quantitative Impacts of Sharing Mobility services	Dr Alessandro Luè	183
10	Analyzing Acceptance of Reduced Speed Limits on Greek Motorways: A Survey	Ms Armira Kontaxi	157
11	The Potential of Shared Mobility to Reduce Vehicle Ownership. A case study of Madrid Region	Mrs Maria Vega-Gonzalo	148
12	Structure of the Integration of Mobility as a Service (MaaS) with Urban Policy	Ms Yurie Toyama	192

Poster 2.1 Transport Safety & Sustainable Logistics 09:45 - 11:00 — Stage 1

Presenting Order	Paper Title	Presenting Author Names	Poster Board Number
1	Integration of Human Factors in Model Based Railway System Safety Engineering	Ms Nadia Ammad	2
2	Hyperloop as an Innovative New Mobility Mode: Squaring the Circle in High-Speed Transportation Systems?	Prof. Dr. Walter Neu	41
3	The RailHOF platform: Supporting the Rail Community in Developing Competence in Human and Organizational Factors	Dr Nora Balfe	8
4	Unlocking Green Maritime Corridors: Lock-ins, Barriers, and Enablers for Decarbonizing RoPax Maritime Transport in Europe	Dr Anastasia Tsvetkova	56
5	Technological Design Considerations of CargoTube Low-Pressure Tube Transport for High-Speed Sustainable Logistics Networks	Mr Lukas Eschment	29
6	Data for shifting to rail freight transport: a review of free online tools	Mr Celestino Sánchez Martín	47
7	Scoping Requirements For The Assessment Of The Impact Of Green Innovations In The Port Environment	Mr Jeffrey Willems	59
8	Digital Automatic Coupling as an Enabler for Rail Freight Innovations	Dr Patrick Seeßle	53
9	Lane Splitting Policy : a Second Experiment on its Social Acceptability	Dr Anita Bec-Gerion	14
10	Train identification using Distributed Acoustic Sensing	Ms Imen Benamara	20
11	Sensor fusion and GNSS augmentation services for safe train positioning - Accuracy&Integrity performance evaluation	Mr Valentin Barreau	11
12	Irish Rail's Level Crossing Safety Programme: Our 25 Year Journey	Dr David Dunne	26
13	EGNSS MATE: Towards Accurate and Reliable GNSS- and Map-supported Train Localisation	Dr Michael Roth	44
14	Analysis of the effects of cascading events due to safety and security in port areas	Dr Enrico Macchiavello	32
15	Influence of the air flow concept on the aerosol spreading in a generic train compartment	Dr Daniel Schmeling	50
16	GAN-Based Four-Session Synthetic Data Augmentation for Increasing CNN Performance in Maritime Environments	Dr Amin Majd	38
17	Spillover Effects From Inland Waterway Transport Development: Spatial Assessment of the Rhine-Alpine Corridor	Mr Peter Shobayo	17
18	Cognitive load monitoring of train drivers: from empirical research to industrial solution	Dr Allan Armougum	5
19	Integrating Intra-terminal Logistics Optimization and Freight Train Scheduling	Mr Georg Brandstätter	23
20	A Methodology of Elicitation of Safety Requirements of Artificial Intelligence based Functions in Railways	Mr Ankur Mahtani	35

Poster 2.2 Sustainable Logistics & People-centred Inclusive Mobility 09:45 - 11:00 — Stage 2

Presenting Order	Paper Title	Presenting Author Names	Poster Board Number
1	Public Transport Use and Challenges Faced by Immigrants, Refuges, and Roma Populations	Mrs Maria Giannoulaki	65
2	A Satellite Image based Eco-Routing Solution: User Requirements from Industry Interviews	Mr Riccardo Lelio Notarangelo	77

3	Safe, Inclusive and Sustainable: Planning Future Transport in Thimphu, Bhutan	Miss Krissel Alcaraz	62
4	Towards design principles for an accessible autonomous vehicle: Promoting inclusivity, independence and well-being	Mr Andrew Peterson	83
5	Factors Modeling the Consumer Adoption of Electric Vehicles in Varanasi, India: an Extended UTAUT Model	Miss Apoorva Nawani	74
6	Putting Users First? A Multi-sited Study of Public Transport Authorities' Approaches to MaaS Implementation	Dr Jana Sochor	89
7	Critical analysis of the main factors causing delays in various stages of a supply chain	Mrs Afroditi Stamelou	92
8	On-Demand & Shared Passenger Maritime Transport: Planning of Operations through Agent-Based Modelling.	Mr Georgios Papaioannou	80
9	The SEAMLESS Approach to Enabling Fully Automated Waterborne Freight Feeder Loop Services	Mr Vasileios Podimatas	86
10	Tactile Paving: A Comparative Analysis of Irish and International Approaches and Contexts	Mr Glenn Hingerty	68

Poster 2.3 Urban, Regional & Rural Transport 09:45 - 11:00 Stage 3

Presenting Order	Paper Title	Presenting Author Names	Poster Board Number
1	Smart and Innovative Solutions for Maximizing Public Transport Ridership and Passengers' Satisfaction	Dr Ghadir Pourhashem	125
2	Organisational and regulatory aspects of door-to-door journeys involving public transport	PhD Russell Cannon	116
3	Detecting modal mobility in urban form using mobile phone tracking data: Case of Finnish cities	Mr Marton Magyar	122
4	Shared Solutions for Active, Collective and Inclusive Neighbourhoods	Dr Astrid Bjørgen	98
5	Integrating Urban Planning and Rail Transport for High-Quality Urban Development in sparsely populated areas	Mr Nathan Vezinaud	137
6	Integrated Approach for Convoy Dispatching and Passenger Routing at Railway Stations with Variable Composition Trains	Dr Federico Gallo	113
7	Traffic restriction scheme in downtown Athens: Is it effective?	Ms Ioanna Berntoufi	95
8	Exploring The Interaction Between Mobility Hubs and Public Transport	Mr Elnert Coenegrachts	107
9	Transport Emission Modelling Based on a Bottom-up Approach to Facilitate Sustainable Transport Planning	Dr Anna Charly	101
10	Seamless and Attractive Transfers to and within Public Transport Stations: Responsibilities, Characteristics and New Visions	Dr. Rita Cyganski	110
11	European Research and Innovation in Support for Sustainable and Smart Urban Mobility	Dr Marcin Stepniak	134
12	Local Transport Plans: An integrative approach to local plan making	Mr David Clements	104
13	Developing Connectivity Tools: Improving Urban Spaces with the assistance of Connectivity Analysis	Mrs Deborah John	119
14	Land Use Planning for a Better Bus: Ireland's Approach to Orientating Development Towards Public Transport.	Ms Michelle Poyourow	128
15	Bridging the green gap: Understanding the intention-behavior gap in mobility and urban mobility	Jeanne Lallement	131
16	Transition to Multimodal Digital Transport Services (MDTS) and user-friendly multimodal transport networks	Dr Lambros Mitropoulos	191

Poster 2.4 Zero Emissions Transport 09:45 - 11:00 — Stage 4

Presenting Order	Paper Title	Presenting Author Names	Poster Board Number
1	State of knowledge and future direction of LCA for shared electric micro-mobility services	Mr Carlos Armando Garcia Calan	164
2	The Life4MEDECA Knowledge Centre: an interactive thesaurus for the MEDECA implementation	Dr Elena Paifelman	172
3	Sustainable transport roadmap to support sustainable economy in the Slovak Republic	Mr Ján Horváth	170
4	Lowering transport environmental impact along the whole life cycle of the future transport infrastructure: Liaison	Dr David Garcia Sanchez	167
5	CargoTube network analysis based on an agent-based modelling: Lower Saxony Case Study	Prof. Irina Yatskiv	185
6	From Shift2Rail to Europe's Rail, future perspectives for alternative drive trains standardizations and energy efficiency	Mr Andre-philippe Chamaret	149
7	Future fuel mix for passenger cars in different socio-geographical contexts: Results from energy systems modeling	Mrs Maria de Oliveira Laurin	152
8	Novel light train using modular electrical power traction.	Mr Mohammed Ilyas Elbachir	161
9	Supporting the Planning of dedicated CargoTube Links through Simulation	Dr Heiko Duin	155
10	Enhancing Rail Vehicle Structural Performance through High-Recyclability Thermoplastic Composite Lightweight Components	Dr. Andreas Ulbricht	187
11	Alternative-driven public vehicles ranking based on consumption and operating cost considering number of passengers transported	Mr Péter Ákos Szilassy	179
12	Bicycle traffic analysis before and after mobility interventions using crowd-sourced data	Mrs Virginia Petraki	174
13	Active Travel Infrastructure (ATI) in Ireland - An Asset Management Approach.	Simon Alvey	140
14	Thermal Management of Double-side Cooled SiC MOSFET Power Modules for Lifetime Enhancement of Automotive Applications	Mrs Gamze Egin Martin	158
15	Environmental Impact Modeling of Bike Libraries: A Machine Learning Approach	Dr Pavlos Tafidis	181
16	Towards low carbon and sustainable mobility: Reassessing roundabouts design	Dr Apostolos Anagnostopoulos	143

Poster 3.1 Urban, Regional & Rural Transport 14:30 - 15:45 — Stage 1

Presenting Order	Paper Title	Presenting Author Names	Poster Board Number
1	Assessing Car Dependence: A Methodology for Regional and Multidimensional Operationalization (Lombardy Case Study)	Mr Jaime Sierra Muñoz	39
2	National Roads Network (NR2040) Sustainable Future	Ms Tahel Wexler	45
3	Impact assessment of tourism mobility services in rural areas	Dr Jenni Eckhardt	6
4	Ventilation Fan Development for Next-Generation Regional Aircraft	Ms Pela Katsapoxaki	27
5	Regional Rail Rolling Stock Requirements & Specifications	Mr Jens König	30
6	Active Travel and the Common Good in Irish Local Authority Development Planning Applications	Dr Mary Noll Venables	42
7	Going to the Zoo: A Comparison of Travel Time Ratios in 21 European cities	Dr Anna Molter	36

8	Operational Performance of Passenger Ferry Service	Ms Samruddhi Gujar	15
9	Developing pan-European Capacity at local level for a new era of sustainable rural mobility: SMARTA-NET	Mr Andrea Lorenzini	33
10	Analysis of Decarbonisation Pathways for Shipping in the North and Baltic Seas	Dr Martin Bergström	3
11	Understanding Mobility in Sparsely Populated Areas: Between Vulnerability and Asserted Choice?	Mrs Sophie Hasiak	18
12	How smart DRT can contribute to a change in the modal split in rural areas	Mr Jack Holland	21
13	A case study for selecting suitable measures for workplaces	Dr Domokos Esztergár-Kiss	9
14	EU-Rail FutuRe Project - CCS Innovative Solutions for Interoperable Regional Lines	Dr Marta García Hoyos	12
15	Decarbonising mobility in minor cities in Finland	Mr shahid hussain	24
16	EURAIL – FA6 FutuRe Project Innovative solutions for G2 regional lines	Dr Fabrizio Burro	151

Poster 3.2 Zero Emissions Transport 14:30 - 15:30 Stage 2

Presenting Order	Paper Title	Presenting Author Names	Poster Board Number
1	Advancing Hydrogen Technology for Heavy-Duty Applications: The MORELife Project	Mr Johannes Lackner	81
2	Retrofit solutions to reduce GHG emissions in maritime transport	Dr Alessandro Iafrati	72
3	A short review of ammonia Compression Ignition engines for an SOFC-ICE power plant for shipping	Ms Isabelle Jacobs	75
4	Enhancing Energy Efficiency of Ship Propulsion Systems through Tubercle Assisted Propellers: A Full-scale CFD Study	Dr Mina Tadros	87
5	Development of Energy Efficient Solutions for Hydrogen Powered Vessels: RESHIP project	Dr Weichao Shi	84
6	Sustainable and greenhouse-gas-neutral initiatives within European Ports: Insights from the MAGPIE Project.	Dr Michele Acciaro	48
7	Real-world Emissions Measured On-board Two LNG-fueled Vessels	Ms Niina Kuittinen	78
8	Simulation of Hybrid Fuel Cell-Battery Propulsion System Scrutinizing Multi-Scheme Energy Management for a CTV Boat	Dr Myo Zin Aung	60
9	Development of Design Configurator Tool for Rapid Initial Design of Fast Zero-Emission Battery-Electric Vessels	Prof. Evangelos Boulougouris	57
10	Unleashing the Potential: Analyzing Modularity Aspects for a 40-Ton Fuel-cell Powered Long Haul Truck	Dr Mohammad Ghazali	69
11	Assessing Electrochemical Energy Storage Technologies for Waterborne Transport Systems	Dr Mohsen Akbarzadeh	51
12	Electrochemical processes and energy systems towards step-wise emission reduction of marine transport	Dr Asif Ansar	54
13	Green Mobility for Small-Medium Ports: a GHG Emissions Web Calculator	Prof. Margarida Coelho	66
14	Demonstration of Greenhouse Gas Reductions from Kamsarmax Bulk Carrier Using a Combination of Technologies	Mr Sebastiaan Bleuanus	63
15	The Ammonia2-4 EU-funded project: Demonstrating a 2-stroke and 4-stroke large scale ammonia marine engine	Mr Sebastiaan Bleunaus	254

Poster 3.3 Circular Economy & LCA 14:30 - 15:30 Stage 3

Presenting Order	Paper Title	Presenting Author Names	Poster Board Number
1	Material supply of Urban Factories using Circulation Hubs- An analytical comparison of the logistical effort	Mr Marius Dellbrügge	90
2	Circular Economy Transition Actions by a Major Transport Agency- Transport Infrastructure Ireland	Ms Janet Lynch	102
3	Reducing carbon through transport investment – Transport Infrastructure Ireland Pavement renewal programme	Mr. Olivier Mainardis	105
4	Low energy bound materials: A sustainable solution for regional and local road pavement renewal?	Mr Alan Lynch	99
5	Facilitating choice of long-haul heavy-duty environmental-friendly drivetrains: LONGRUN life cycle analysis tool	Mr Shantanu Pardhi	117
6	Evaluation of Lignin-bitumen Blend as a Sustainable Alternative for Asphalt Binder	Dr Sayeda Nahar	111
7	KPI Framework for Assessing Pavement Sustainability	Ms Concepción Toribio-Díaz	123
8	The PROCEEDR Tool to Assess Environmental Impacts, Circularity and Life Cycle Costs of Roadside Equipment	Mr. Jieming Yan	132
9	Sustainability Considerations in the Design of Earthworks for Road Projects	Mr John O'connor	114
10	Incorporation of Non-Recyclable Plastics in Bituminous Mixtures	Mr João Fonseca	93
11	The Transition to Circular Economy in Transport Infrastructure - CERCOM and LIAISON Progression	Dr Emma Sheils	120
12	Luas Finglas – Delivering a Sustainable Infrastructure – Sustainability, Circular Economy, Gender Lenses	David Weldon	129
13	Towards standardized S-LCA: Identification of relevant stakeholder and social-impact categories for autonomous electric car-sharing fleets.	Mr Davis Jose	96
14	Designing low energy sustainable asphalt mixtures based on their mechanical properties and performance characteristics	Mr Dimitris Michailidis	108
15	Eco-Design of Lightweight Structural Components for Electric Vehicles Made of Advanced Materials	Mrs VANESSA VENTOSINOS LOUZAO	126

Poster 3.4 Logistics and Sustainable Transport 14:30 - 15:30 Stage 4

Presenting Order	Paper Title	Presenting Author Names	Poster Board Number
1	Adapting MTVRPTW for Small Business: A Simplified Approach to Optimizing Food Delivery Logistics	Mr Diego Bandeira de Melo Akel Thomaz	144
2	Data-Driven Decision-Making in Fashion Logistics: A Systemic Approach in the Greek Clothing Industry	Dr Georgia Ayfantopoulou	141
3	COLLABORATIVE URBAN LOGISTICS: POTENTIAL FOR URBAN FREIGHT CONSOLIDATION CENTRES IN IRELAND	Mr Malvern Chinaka	150
4	A New Concept for Resilient and Green Freight Transport and Logistics Networks against Disruptive Events	Dr Sandra Stein	184
5	Business model implications of innovative solutions for sustainable urban freight transport	Dr Paul Buijs	147
6	Food delivery services influence on urban mobility – A systematic literature review	Miss Amanda Oliveira Mesquita	180
7	Performance Assessment of Multi-Articulated Flexible Vehicle Platforms in Realistic Road Infrastructure Models	Mr Nikhil Muthakana	175

8	Road freight electrification: Digital model for fleet depot eHGV charging infra-structure	Dr Alan Walker	188
9	Data-driven and Dynamic Land Use for Physical Internet-led Urban Logistics and Planning	Miss Paola Astegiano	138
10	Implementing Sustainable Micro-Logistics Hubs for Innovative physical internet Urban Delivery Methods: The Bologna case	Mr Giuseppe Luppino	171
11	Assessing the impacts of Last-Mile Delivery in urban areas: E-commerce vs. traditional delivery	Dr Laura Garrido	162
12	Road Freight Models to Accelerate Green Transition in Europe	Sheba Nair	177
13	Exploring last-mile delivery practices: A study on e-commerce adoption, fre-quency, and returns.	Ms Thais Rangel	186
14	Decarbonising last mile logistics	Mrs Manon Levrey	168
15	Integrating parcel delivery services into public transport operations through a common ICT platform	Dr Jochen Wendel	190
16	E-commerce customer and retailer expectations from urban freight transport: A comparative analysis in Thessaloniki, Greece	Mr Sofoklis Dais	153
17	Sustainability assessment of B2C delivering through an Urban Consolidation Centre in Madrid's Low Emission Zone	Dr Natalia Sobrino	159
18	Towards Harmonization: Overview of the Standardization Landscape for Elec-tric Freight Transport	Reader Dr Ahu Ece Hartavi Karci	165
19	Estimating a detailed trans-European origin-destination matrix of road freight transport	Mr Peter Widhalm	173
20	Sustainable Last-Mile Delivery: Evaluating the Viability of Autonomous Delivery Robots through Experimental Data and Modelling	Dr Louison Duboz	156
21	Freight Demand Modelling towards Green and Digital Logistics	Dr Elisabete Arsenio	135
22	Monitoring and assessing heavy traffic loads: Feedback from French initiative and data analysis	Dr Franziska Schmidt	1
23	Establishing and evaluating Living Labs for city logistics: Challenges and opportunities	Dr Ioannis Karakikes	182

Poster 4.1 Digital Transport Infrastructure & Energy Transition
09:45 - 11:00 — Stage 1

Presenting Order	Paper Title	Presenting Author Names	Poster Board Number
1	Assessing the Readiness of European Cities for Distributed Traffic Management: A Smart Infrastructure Readiness Index	Mr Konstantinos Katzilieris	221
2	Benefits of Radio Coverage Planning of Large-Scale Roadside C-ITS (ITS-G5) Communication Networks	Dr Shobanraj Navaratnarajah	233
3	Asset Information Management for a Communications Network in Ireland	Mr Aonghus O'Keeffe	236
4	Modelling Probabilistic Digital Twins Of Complex Inland Waterway Transportation Systems Using Bayesian Networks	Dr Alexandra Micu	230
5	Assessing the Adaptability of EVs, a Case of Visakhapatnam	Mr Suru Dinesh	206
6	Data Communication System for Remote Train Operation on Regional Lines, including Video Integration	Mr Patrick Urassa	245
7	Advancing Automated Freight Transport: Unveiling the Requirements and Readiness of Physical and Digital Road Infrastructure	Dr Knut Jetlund	215
8	Operational obstacles of the Building Information Model in railway infrastructures	Mme Nassiba KHELLADI	224
9	Railway switches and crossings: Identifying and clustering passages using GPS measurements	Mr Jonas Vuitton	248
10	Service Orchestration and Network Function Virtualization for Information Systems Maintenance Service in Railway Systems	Dr Anna Lina Ruscelli	242
11	Development and implementation of (more) sustainable and resilient electric vehicle charging infrastructure in public buildings	Mr Javier Romo	239
12	Innovative Travel Modeling to Support Urban Traffic Management Strategies	Mr Marios Giouroukelis	212
13	Tolling dematerialization Use Cases	Mr Tiago Dias	203
14	Crafting Symbioses for Mass Deployment between Mobility-, Charging- and Energy Value Chains	Mr Frank Geerts	209
15	Optimal integration of electric vehicles for rural micro-grids in Ireland	Dr Mohammad Sameti	200
16	Test Vessel Development for Autonomous Maritime Research	Dr Tero Jokela	218
17	E-mobility Policy Tracker: Understanding Progress and Gaps in Electric Mobility Policy Measures in Developing Countries	Prof. Oliver Lah	227

Poster 4.2 Resilient Networks & Operations; Fuel Transition
09:45 - 11:00 — Stage 2

Presenting Order	Paper Title	Presenting Author Names	Poster Board Number
1	The Journey Towards Value Based Whole-System Decision Making in the Rail Industry	Mr Jude Carey	257
2	Transport network criticality assessment based on a capability-based approach	Dr Rui Teixeira	292
3	Reimagining the Future Ridership of City Bus- A Case of BRTS Bhopal	Miss Pragati Goel	271
4	Healthy Sailing: Prevention, Mitigation and Management of Infectious Disease on Cruise Ships and Passenger Ferries	Nikolaos Ventikos	295
5	BIG-data handling of complete and simultaneously measured road condition data	Mr. Bjarne Schmidt	289
6	Optimizing Transit Connectivity: A Timed Transfer System Model for Porto Campanhã	Dr. Joana Hora	268
7	Methanol as a Fuel in Shipping: Review and Outlook to ICE Research within MENENS	Mr Konstantinos Kiouranakis	283

8	Practical Approach towards Green Methanol as Maritime Propellant	Dr. Nils Meyer-Larsen	286
9	Automated Adaptive Traffic Network: Adapting the M50 in real-time by optimizing Speed-limits using Optimized ANNs	Mr Amirreza Kandiri	280
10	Increasing the Capacity of Shunting Yards within the Current Infrastructure: A Computational Perspective	Ms Issa Hanou	274
11	Facilitating learning for organisational resilience in project-oriented (public infrastructure) organisations	Mr Bert de Groot	263
12	Empowering urban authorities: Data-driven solutions for effective public transport management	Mrs Raquel Alario Bernabé	251
13	Railway assets resilience to climate change - Application of the smarter and faster adaptation EU strategy	Mr Hubert Mullard	260
14	Investigation into Condensation for Various Fin Shapes for Condenser Design in Water-Enhanced Turbofan (WET) Engine	Dr Hariharan Kallath	277

Poster 4.3 Transport Data Sharing 09:45 - 11:00 Stage 3

Presenting Order	Paper Title	Presenting Author Names	Poster Board Number
1	Sociocultural scenarios for transport data sharing. The case of Multimodal Traffic Management in ORCHESTRA project	Dr Ludovic Vaillant	328
2	Integrated data monitoring in support of sustainable mobility planners in tourism destinations	Mrs Stavroula Tournaki	325
3	Interoperability push in Combined Transport: EDICT increases digital collaboration and collaborative quality management	Dr Roland Klueber	304
4	Implementation of a novel concept to unlock data value in multimodal systems	Ms Ismini Stroumpou	322
5	Creating efficient and safe traffic in a data ecosystem	Mr Janne Lautanala	310
6	An Integration Framework to Support Data Sharing and Process Tracking in Intelligent Asset Management Systems	Mr Mario Scrocca	319
7	TRIMIS: Transport Research and Innovation Monitoring and Information System	Dr Monica Grosso	368
8	Walking and Cycling Index Report 2021	Miss Sarah Mcdonagh	313
9	Knowledgeable comprehensive and fully integrated smart solution for resilient, sustainable and optimized transport operations	Dr Giulia Renzi	316
10	Digitalisation for Optimal Traffic Management: Future-proofing TfGM's Intelligent Transport System Platform	Mr. David Watts	307
11	National Access Points in the European Mobility Data Space	Mr Timo Hoffmann	301
12	The TANGENT Governance Model for Mobility Data Sharing	Dr Marco Comerio	298

Poster 4.4 Urban, Regional & Rural Transport 09:45 - 11:00 Stage 4

Presenting Order	Paper Title	Presenting Author Names	Poster Board Number
1	Exploring the Dynamics of Ride-Hailing Fares in Madrid: A Machine Learning Approach	Dr Thais Rangel	361
2	Decarbonizing Urban Mobility Through Data-driven Services: How to Achieve Modal Shift?	Mr Toni Lusikka	356
3	Soft Measures Speeding up the Change – Showcases from the City of Turku, Finland	Ms Stella Aaltonen	331

4	Predicting autonomous mobility: early use cases from the perspective of international users and experts	Mr Sebastian Stegmüller	364
5	Autonomous and Modular Vehicle Concept U-Shift for Sustainable Mobility of People and Goods	Mr Manuel Osebek	359
6	Exploring Logistics-as-a-Service to Integrate the Consumer into Urban Freight	Prof. Joris Beckers	337
7	Evaluating the Adoption and Decarbonisation Potential of Shared Electric Mobility Hubs in Dublin's Transportation Network	Prof. Brian Caulfield	340
8	Integrated Passenger and Freight Transport: Seamless Door-to-door Mobility and Optimal Use of Resources	Mrs Margarita Kostovasili	351
9	MASA - Modena Automotive Smart Area as scalable living lab.	Prof. Francesco Leali	354
10	Exploring differences in individuals' adoption and frequency of use of Shared and Private E-Scooters	Mr. Álvaro Aguilera-García	334
11	Exploring spatial heterogeneity in individuals' adoption and frequency of use of E-commerce: evidence from Madrid	Mr Juan Gomez Sanchez	493
12	Unintentional encounter with Automated Delivery Robots: Presentation of two case studies involving pedestrians and bikers	Dr Louison Duboz	343
13	Estimating the Impact of Congestion Charging on Traffic Flow Distribution Using PTV Visum	Mr David Gruhonjić	349

Poster 5.1 CCAM 14:30 - 15:45 Stage 1

Presenting Order	Paper Title	Presenting Author Names	Poster Board Number
1	UN Regulation N.155 on Vehicle Cybersecurity: Technical Service Perspective	Mr Carlos Lujan	219
2	Connected & autonomous vehicles & road safety: the role of infrastructure	Mr Hendrik van Geelen	231
3	Automated, self-propelled rail transport of freight on branch lines – Project DACIO	Mr. Georg Brandstätter	201
4	ÖV-LeitmotiF-KI – Open Standards for a Better Integration of Automated Vehicles in Public Transport Systems	Mrs Yasmin Dufner	204
5	NaVEAC Drive Lab Project – The innovative intelligent urban test bed	Dr Nere Garmendia	207
6	Road Operation Opportunities Due To Distributed Attribute Value ODD Awareness	Dr Risto Kulmala	213
7	Safe-Up – Proactive Safety Systems and Tools for a Constantly Upgrading Road Environment	Mrs Núria Parera	225
8	Automated Vehicles' Impact on Pavement Fatigue Damage	Mr Ali Yeganeh	234
9	Cooperative mobility: Future-proofing motorways through C-ITS deployment in Cork city, Ireland	Mr Munya Mutyora	222
10	Infrastructure Support using Cooperative Intelligent Transport Systems: Enabling Automated Driving in Tunnels	Mr Srdan Letina	216
11	Estimating the impact of vehicle breakdown on traffic performances: V2X simulation study of UK Motorways	Miss Paraskevi Koliou	210
12	Collective perception hybrid testing in a roundabout scenario with AVs	Dr Bill Roungas	228
13	Automated Driving Challenges & Approaches: Truck Platooning Use Case	Mr Pablo Rodriguez	369

Poster 5.2 Digital Transition 14:30 - 15:45 — Stage 2

Presenting Order	Paper Title	Presenting Author Names	Poster Board Number
1	Designing the Procurement Logistics Processes of a Smart Factory based on Virtual Building Models	Dr Kerstin Lange	261
2	Railway system Digital Twin: a tool for extended enterprises to perform multi-modal transportation in a decarbonization context	Mr Moussa Issa	252
3	Sustainability and circularity-related information requirements for a digital product passport for the electric vehicle battery	Ms Antonia Pohlmann	264
4	Recommendations and Roadmaps Towards Intelligent Railways	Prof. Francesco Flammini	240
5	The TANGENT Project Architecture: Towards New Traffic Management Approaches	Dr Hugo Landaluce	258
6	The role of digitalization in exploring the risks of implementing Mobility-as-a-Service systems	Mr Abdelrahman Ibrahim	249
7	Rail Defect detection using Distributed Acoustic Sensing technology	Ms Annie Ho	246
8	Railway Ground Truth and Digital Map based on GNSS and multi-sensor big-data acquisition	Ms. Alessia Vennarini	269
9	Fibre Optic Sensors in Asphalt Pavements: Investigation of the Sensor and the Asphalt Pavement	Mr Leandro Harries	243
10	Unlocking Digital Collaboration: the MINERVE Project as Catalyst for the Railway Infrastructure	Mrs Elodie Vannier	266
11	Schematic plan for train position identification using digital twin and positioning sensors.	Mr Hailun Yan	272
12	Automation of environmental data during highway construction	Mr Nemanja Jevtic	255
13	Map-Based Digital Twinning for Freeway System Planning	Dr Bob Aghdashi	237

Poster 5.3 Transport Safety 14:30 - 15:45 — Stage 3

Presenting Order	Paper Title	Presenting Author Names	Poster Board Number
1	The CEDR SAFEPATH Project: Increase capacity of highways without compromising road safety.	Dr Scott Stephenson	296
2	Maintenance and safety of the road infrastructure by a new robotized system for filling-in potholes	Prof. Paola Di Mascio	284
3	Recent Research on Passively Safe Road Equipment in Germany	Mr Moritz Grimmelsmann	290
4	Geofenced heavy trucks to protect bridges	Mrs Kristina Andersson	275
5	AITHENA: towards a trustworthy AI for CCAM development	Dr MARCOS NIETO	293
6	An innovative design process for a save and active lightweight chassis	Mr Oliver Deisser	281
7	A Quick Novel Approach for Analysing an Ageing Infrastructure	Dr Cathal Bowe	278
8	Women perceptions in transient environments and the need for AI to drive safer travel: an Inclusive Mobility Study in India	Dr Guilhermina Torrao	305
9	Innovative Interchange Design: The Diverging Diamond Interchange (DDI) on the Irish National Road Network	Mr Danny Wicks	314
10	Road weather and safety services tailored individually to heavy vehicles	Dr Timo Sukuvaara	299

11	Impact of ITS Traffic Lights with Speed Displays on Speed Management Case Study: Croatia	Mr Juraj Vertlberg	308
12	Traffic Flow breakdown prediction for the M50 Motorway in Ireland	Mr Jack Geraghty	287
13	Development of an Optimum Quantitative Approach to Assessing and Classifying Lane Marking Durability Performance	Ms Siobhan Tierney	302
14	Intersection Safety and Compliance: The Portuguese case study	Dr Sandra Vieira	311

Poster 5.4 Resilient Infrastructure 14:30 - 15:45 Stage 4

Presenting Order	Paper Title	Presenting Author Names	Poster Board Number
1	Some impacts of traffic management decisions on the residual life of a long-span bridge	Dr Franziska Schmidt	367
2	Automatic Detection of Asphalt Road Distress via Semantic Segmentation	Dr. Philip Leopold	338
3	Development of European Standards for Surface Characteristics of Bicycle Lanes	Dr Luc Goubert	335
4	A geographic information system (GIS) for resilience assessment of transport infrastructure	Dr Kalliopi Anastassiadou	320
5	SCI_TSD: A New Structural Curvature Index for Strain Analysis of Large Road Networks	Mr. David Malmgreb-Hansen	344
6	Cost of Meteorological Hazards on the French National Railway Network	Miss Thaynara Silva	360
7	Asphalt pavements performance prediction using tree ensemble models	Associate Prof. Adelino Ferreira	332
8	Comparative Analysis of the Marshall Properties of Asphalt Concrete Produced from Granite and Dolomite	Prof. Olumide Ogundipe	352
9	Evaluation of Marshall Properties of Asphalt Concrete and Stone Mastic Asphalt for Nigerian Roads	Prof. Olumide Ogundipe	350
10	Machine Learning-Based Model for Pavement Elastic Modulus Estimation from Deflection Velocity Measurements	Mr Abdelgader Abdelmuhsen	317
11	Recycled Fibers in Asphalt Mixtures as Method to Improve the Mechanical Behaviour: Asfival Project	Señor Christopher De La Fuente Navarro	326
12	Assessing Road Repair via Digital Image Correlation	Dr Damian Palin	355
13	Self-healing asphalt pavement: towards a safe, efficient, and resilient road infrastructure	Prof. Erik Schlangen	357
14	Investigation on ageing behaviour of bio-extended bituminous binders and asphalt mixtures for sustainable road infrastructure	Dr Jiqing Zhu	365
15	Calibrated Models for the Long-term Performance Prediction of Flexible Pavements	Dr Yared Dinegdae	329
16	Risk Based Management of Bridges in Ireland	Prof. Alan O'connor	347
17	Drive-by monitoring of frequencies of a multiple span bridge using data collected from a train	Dr Abdollah Malekjafarian	341
18	Evaluating the pollutant removal efficiency of a new, retrofittable sustainable drainage material: BlueLay	Miss Puneeta Sreenivas	362
19	Additive manufacturing for SNCF Réseau: an opportunity for generative design and laser powder bed fusion	Mr Pascal De Guio	323

Poster 6.1 CCAM 09:45 - 11:00 — Stage 1

Presenting Order	Paper Title	Presenting Author Names	Poster Board Number
1	A Fail-Safe Decision Architecture for CCAM Applications	Mr Mario Rodríguez-Arozamena	229
2	Post-Quantum Cryptography for Connected and Cooperative Automated Mobility: A Comprehensive Overview	Dr Mohamed Saied Mohamed	217
3	Selfy - Self Assessment, Protection & Healing Tools For A Trustworthy And Resilient CCAM	Mr Victor Jimenez	208
4	An Efficient and Secure Blockchain Based Homomorphic Encryption for Intelligent Transport System	Mr Nikhil Tanwar	235
5	Impact assessment of governance models on the integration of connected and autonomous vehicles	Mr Emmanouil Nisyrios	223
6	How to Deliver a Large Scale National Connected Vehicle Pilot	Mr Tom Allen	202
7	EU-CEM: A Common Evaluation Methodology for Evaluating Co-operative, Connected and Automated Mobility	Dr Gillian Harrison	205
8	Exploring future parking strategies using latent variables and microsimulation in the autonomous mobility era.	Mr Andrés Rodríguez	226
9	SNCF Voyageurs is developing its broadband connectivity to support the transformation of its activities	Mr Christophe Krausch	214
10	FRMCS, a rail digitalization enabler	Mr. Dan Mandoc	220
11	Integrated Design Flow Methodology for Open-Source Innovations in Smart Transportation: Empowering Accountable AI and Cybersecurity	Dr Alper Kanak	211
12	Collective Perception Virtual Safety Validation in Urban Environments: Scenarios, Tools, Metrics	Dr Bill Roungas	232
13	EALU-AER: Enhanced Automation for U-Space/ATM Integration	Ms Khushboo Wadhwani	238

Poster 6.2 Digital Transition 09:45 - 11:00 — Stage 2

Presenting Order	Paper Title	Presenting Author Names	Poster Board Number
1	A Framework for Compliance Verification based on Trusted Data and Blockchain Identity	Dr Knut Erik Knutsen	253
2	MOTIONAL: Advancing the future of European railway systems through digitalization and integration	Mr Marco Ferreira	241
3	Synthetic Environment to Enable Digitisation of Great Britain's Command, Control and Signalling Railway Network	Ms Nicola Furness	244
4	ISA: Improving The Quality Of Data And Sources Of Information From A City Perspective	Mr René Spaan	267
5	Intelligent Access, e-waybills and eFTI Developments in Estonia	Mr Taavi Tonts	270
6	Future Mobility Campus Ireland: A testbed for advanced and autonomous vehicles.	Mr Diarmuid O Conchubhair	265
7	Unleashing the power of Digital Tools in Linear Infrastructure: Exploring the Benefits	Ms Mary Hurley	247
8	The more you know: Digital twins of travelers	Mr David Käthner	256
9	Different Facets of Artificial Intelligence-Based Predictive Maintenance for Electric Powertrains	Dr Alper Kanak	250
10	Analysing the enabling factors to implement MaaS in Asian, African and Latin American cities	Mrs María Rosa Muñoz B.	262

Poster 6.3 Resilient Infrastructure 09:45 - 11:00 Stage 3

Presenting Order	Paper Title	Presenting Author Names	Poster Board Number
1	Novel concept for the security architecture of an airport involving holistic interpretation via Artificial Intelligence	Dr Olaf Milbredt	303
2	Analysis and evaluation of passenger flow at the Next Generation Station using microscopic simulations	Mr Andrei Popa	309
3	Stakeholder identification and mapping for measuring new technology impacts on Europe's inland waterway ecosystems	Miss Marie Cryns	279
4	Resilience of Transport and Associated Infrastructure to Climate, Cyber and Physical Threats	Miss. Caitriona De Paor	276
5	Transport Infrastructure Ireland's Approach to Climate Adaptation	Dr Oliver Pritchard	312
6	Irish Rail Coastal Resilience and their Response to a Changing Climate and Increased Coastal Erosion	Mr Cian Lynch	291
7	Quantitative and qualitative assessment of European research and innovation initiatives in transport resilience	Mr Ilias Cheimariotis	273
8	A Programmatic Approach for the Delivery of Public Transport Policy in Ireland.	Dr Juan Martinez-covarrubias	297
9	How do geopolitical risks affect bulk shipping orders?	Dr Vangelis Tsioumas	315
10	A Decision Support System (DSS) for fostering resiliency of Greek Ports against climate hazards	Mr Georgios Papaioannou	306
11	Sustainable approaches to enhancing performance and resilience of historic railway bridges	Dr Michal Majka	294
12	Assessment of cascading impacts across Europe: an innovative approach for a resilient infrastructure and society	Miss Florencia Victoria De Maio	282
13	Decision support for predictive maintenance planning on the rail freight corridor from Rotterdam to Genoa	Dr Ute Glaeser	288
14	Improving Real Time Rail Monitoring with EMAT Sensors and Superlets Analysis	Mr Quentin Mayolle	300
15	Rail Milling: Evolving from a linear to circular infrastructure asset management approach.	Mr Michael Coen	285
16	Health condition monitoring techniques for SNCF-R traction transformers immersed in oil- a comprehensive study	Mr. Smail Ziani	318

Poster 6.4 Zero Emissions Transport 09:45 - 11:00 Stage 4

Presenting Order	Paper Title	Presenting Author Names	Poster Board Number
1	Efficient Air Conditioning of Battery-Electric Multiple Units (BEMU): Modeling and Optimization	Mr Steffen Wieser	363
2	Exploring the Potential of Smart Charging for Electric Vehicles: Insights from USER-CHI project	Mrs Raquel Alario Bernabé	321
3	Greening of road freight transport	Mr Hendrik van Geelen	358
4	Trend scenarios for a stationary charging infrastructure to handle direct electric road transport in Germany	Mr Leon Kiefer	336
5	Breaking Barriers to Electric Vehicle Usage: Findings from a Qualitative Study	Ms Andromachi Mourtzouchou	345
6	Economic implications of the deployment of automated vehicles on European Union roads	Dr Louison Duboz	330

7	Greenhouse Gas Emission Monitoring Tools in Freight Transport: A Status Analysis of Austrian Companies	Ms Denise Beil	327
8	Promoting sustainability through e-vehicle procurement: Literature review and experiences from four continents	Mr Eetu Wallius	353
9	International Collaboration in the Area of Road-Transport	Prof. Oliver Lah	342
10	DCFC strategies for automotive Li-ion cells: non disruptive electrochemical analysis and post-mortem Raman characterization	Dr. Arianna Tiozzo	348
11	Empowering the Future for en route charging infrastructure	Mrs Hazel King	339
12	Ecosystem Analysis of the Battery Train, Today and in the Future	Dr Maxime Juston	333
13	E-VOLVE cluster: Increasing innovation efficiency to support the transition toward sustainable e-mobility	Dr Eric Armengaud	324

This area is kindly sponsored by:

amazon

Young Researcher Competition

The TRA VISIONS 2024 YOUNG RESEARCHER COMPETITION is aimed at university and technical institute students pursuing bachelor, master and PhD degrees. This competition represents an opportunity for young researchers to showcase their work on an international stage at TRA2024.

The winning certificates and prizes will be presented in the prestigious Award Ceremony during the TRA2024 Opening Ceremony. Please join us for the Young Researchers Award Ceremony on **Monday 15th April from 09:30 – 11:00 in Hall 8C** (Main Stage) in Hall 8, Simmonscourt.

Senior Researcher Competition and Special Honorary Award

The concept of the TRA VISIONS 2024 Senior Researcher Competition is to have an excellence award for senior researchers who have contributed with significant innovative ideas and concepts, based on results from EU-funded projects in the field of transport.

This competition will act as a tool for further disseminating knowledge and results from innovation and/or research projects in transport, for promoting future synergies, as well as for further developing pioneering ideas in line with the strategic objectives of the Transport Research Arena (TRA) stakeholders.

The winners of the TRA VISIONS 2024 Senior Researcher Competition will act as a showcase for the very best EU-funded innovation and research and either acknowledge the achievements of established leaders in the field, or encourage the development of the rising stars who will become the future leaders.

The TRA VISIONS Special Honorary Award was granted for the first time in 2022, with the aim to honour a senior personality of the transport sector, who throughout the years has made an outstanding and widely recognised contribution to research and innovation in their particular transport field (road, rail, waterborne, air, cross-modal). The winner of this Special Honorary Award has, throughout their career, demonstrated a ground-breaking and future-oriented vision and research. The award honours a senior personality of the transport sector, representing the older generation of established researchers who are about to complete, or have recently completed their career.

Each winner will be awarded a trophy at the Award Ceremony during the TRA2024 Closing Ceremony. Please join us for the Senior Researchers and Special Honorary Award Ceremony on **Thursday 18th April from 15:30 – 16:30 in Hall 8C** (Main Stage) in Hall 8, Simmonscourt.

Closing Ceremony

The TRA2024 Closing Ceremony will all take place on the Main Stage in Hall 8C in the Simmonscourt complex.

Thursday 18th April 2024 15:30 - 16:30	
	Celine Crawford, TRA2024 Organising Committee Chair Overview and Introduction
	Keynote Mary Robinson, Chair of The Elders, previously the first Female President of Ireland and United Nations High Commissioner for Human Rights
	Signe Ratso, Deputy Director General DG RTD European Commission Representative
TRAVISIONS 2024	TRA Visions Awards: Senior Researcher section and Life-time Achievement
	Conference Rapporteur Prof Eugene O'Brien Conference Conclusions and Recommendations
	John McCarthy, TRA2024 Management Committee Chair & Dr Albert Daly, TRA2024 Director
	Minister Jack Chambers - TRA2024 Vice President Handover to TRA2026 Budapest
	Celine Crawford, TRA2024 Organising Committee Chair Final Closing Remarks
Closing Entertainment	

Technical Tours

As part of the TRA2024 programme, we are delighted to announce that we have some interesting offsite technical tours that will take place throughout the week. These tours will be available to book through the registration portal at the beginning of March.

Supported by National Transport Authority and Dublin Bus

National Train Control Centre (NTCC)
Iarnród Éireann's new National Train Control Centre (NTCC) will go live in Summer 2024. It will be the centre for the management and regulation of train movements on the network.

Delegates will see a fully operational centre, visiting the Signalling Control Room, Operational Control Rooms, Network Management Centre (NMC), Emergency Strategic Command Centre and Training Simulator.

Motorways Control Centre
Join us for a tour of Transport Infrastructure Ireland's (TII) Motorway Operations Control Centre in the heart of the Irish motorway network and tunnel operations.

A state-of-the-art facility, it is equipped with the latest technology to allow real-time monitoring of more than 1,200 kilometers of motorways, dual carriageways and tunnels across Ireland.

The Wayfinding Centre
The tour of The Wayfinding Centre will incorporate exploration of the full range of facilities including the aeroplane fuselage, airport infrastructure, and the DART train and Luas light rail carriages, both equipped with live training functionality. The tour will also include the streetscape including cycle lanes, island bus stop, and road crossings along with a double decker bus, coach, and accessible taxi all housed within the facility.

Throughout the tour we will facilitate discussions about common transport challenges and provide the opportunity to discuss potential partnerships with The Wayfinding Centre and use of the Living lab for research and innovation projects. The tour will be followed by light refreshments in the Connection Café to facilitate further discussion and networking.

Technical Tours

Bus Átha Cliath
Dublin Bus

Phibsborough & Broadstone Depots
Site visit to Phibsborough Depot to see the newly installed electrification infrastructure and electric buses. We will have experts from our Engineering team on-site to meet the delegates and provide a briefing.

We will then go across to our historic Broadstone Depot, which is located on the same site. We will give a tour of the depot which has been a part of Ireland's transport infrastructure since 1850 and was redeveloped in 2021, following a significant investment of €15.2M, restoring the site to become a modern bus fleet maintenance facility for the capital of Ireland.

Commissioners of
IRISH LIGHTS
Navigation and Maritime Services

Commissioners of Irish Lights
The Irish Lights Technical Tour will provide a glimpse into the critical work of this maritime organisation which is safety of navigation at sea, as well as supporting wider economic activity in Ireland. Irish Lights delivers essential 24/7 safety and navigation services, which includes a 24-hour emergency response function, around the coast of Ireland (North and South), 365 days a year.

The organisation provides commercial, tourism, and heritage services to support the blue economy and is a key contributor to a range of international Maritime Safety organisations ensuring the development of harmonised safety standards to support maritime safety. Irish Lights adopts a steadfast commitment to responsible environmental and sustainability practices in its operations.

Comhairle Cathrach
Bhaile Átha Cliath
Dublin City Council

Dublin City Council Traffic Control Centre
The technical tour will include an informal overview of how the centre operates on a day to day basis including a description of the overall systems employed daily including the SCATS Adaptive Traffic Management System, Automatic Fault Management System (AFMS) and DPTIM system for bus priority.

transdev
the mobility company
LUAS

Luas Depot
Transdev Dublin Light Rail would like to invite you to join us for a tour of the Luas Light Rail depot at Red Cow. You will have the chance to see how we deliver the operations and maintenance of this highly successful tram network that transports over 48 million passengers per year.

Technical Tours

Smart Docklands

If you've ever wondered what is going on behind the scenes with data and connectivity in Dublin, you can join a 30-40 minute walking tour in Dublin's Docklands. Smart Docklands, a programme co-funded by Dublin City Council and the Science Foundation Ireland research centre, CONNECT in Trinity College Dublin, is a testbed focusing on how increased connectivity and IoT deployments can improve city life.

Smart Dockland's Innovation tour showcases a wide range of deployed innovations across the area from AR/VR experiences, digital infrastructure and sensor-based technologies. The tour highlights the programme's engagement to date with a variety of local authority departments, citizens, academia and industry. As part of the tour you will hear about all the ongoing work deploying next generation connectivity infrastructure and about a number of pilots that have scaled from the Docklands covering waste management, water safety, community engagement and environmental monitoring.

Dublin Port

Dublin Port is Ireland's largest Port and traces its history back to 1707. Since then, the Port has expanded eastwards from the Custom House to its current location at the edge of the City. Today it is a landlord port with companies competing to import and export goods from the island of Ireland to Europe and the UK.
Come and learn more about the busiest port on the Island of Ireland, the 300-year history of the Port, its Community, and Environmental programmes, and finally its plans until 2040. Delegates will be taken on board the St Brigid vessel for a tour overlooking Dublin Port and Dublin Bay, accompanied by representatives from the Dublin Port Company.

Side Events

EU Road Safety Conference 2024

The EU Road Safety Results Conference on 16 April 2024 is an opportunity to engage with EU Member State authorities and all stakeholders on the progress being made with implementing the Safe System approach and with achieving the goal of halving road deaths by 2030. In particular, it will allow participants to assess the state of play of road safety in the EU as we approach the mid-point of the EU Road Safety Policy Framework. It will also offer a forum for analysis and exchange between senior EU policy makers and the wider European road safety community.

Further information can be found at:
EU Road Safety Conference 2024

Date:
Tuesday 16 April
Location:
RDS Concert Hall

EU CAD Symposium

The third Interactive Symposium on Research & Innovation for Connected and Automated Driving in Europe (EUCAD Symposium 2024) is taking place back-to-back with TRA Closing, on 18-19 April 2024. The Symposium is the continuation of previous EUCAD events, the bi-annual EUCAD conferences as well as the EUCAD 2018 Symposium in Vienna and virtual EUCAD 2020 Symposium. Complementary to

the Connected, Cooperative and Automated Mobility (sub-)theme of TRA2024, the event aims to delve deeper into specific key topics and challenges for CCAM Research & Innovation and testing, in Europe and beyond. The Symposium is organised by EC-funded FAME project and supported by the European Commission Directorate General for Research & Innovation (RTD) as well as the CCAM Partnership. The event is open for registered participants only.

EU CAD Symposium

Date:
Thursday 18 April & Friday 19 April
Location:
RDS Concert Hall

Frontier and Orchestra Lunch & Learn Session: Multimodal and Resilient Traffic Management of the Future

Mobility is undergoing unprecedented transformation as it leverages seamless connectivity. In a world where population growth and increased transport are contributing to climate change, integrated traffic management that synchronises traffic flows across all modes of transport will be crucial in overcoming transport-related risks and challenges, ensuring efficiency and resilience of the transport system.

Bring your lunch with you and enjoy tea or coffee on us at the beautiful space of the RDS Concert Hall as you learn how multimodal traffic management solutions will facilitate more efficient, resilient and sustainable transport. Representing the final event of two EU-funded projects, FRONTIER and ORCHESTRA, the session will unveil the projects' results and demonstrate solutions emerging from three years' worth of cutting-edge pilot projects. High-level experts from various ongoing innovative projects will share their insights and vision related to the future of traffic management. Don't miss out on the chance to dive deep into the latest research results, innovations and disruptive technologies within the rapidly evolving field of multimodal traffic management.

Date:
Thursday 18 April
Location:
RDS Concert Hall

ICC TRB Mid-Year Meeting

As part of the United States National Academies of Sciences, Engineering, and Medicine, the Transportation Research Board (TRB) mobilizes expertise, experience, and knowledge to anticipate and solve complex transportation-related challenges.

TRB manages transportation research by producing publications and online resources. It convenes experts that help to develop solutions to problems and issues facing transportation professionals. TRB also provides advice through its policy studies that tackle complex and often controversial issues, at national level, in the USA. The 104th TRB Annual Meeting will be held on January 5-9, 2025 in Washington, DC.

The International Coordinating Council (ICC), one of TRB's 4th Council, serves as a resource to the TRB technical activities committees.

The ICC works and acts within the frame of the TRB and supports its actions and decisions in international outreach. It furthermore aims to utilize the knowledge of its members, as well as its Partners, in order to promote a collective pursuit of research, education and technology transfer agendas at the global scale.

The TRB ICC (A0020C) Mid Year meeting will take place in conjunction with the TRA2024 Conference in Dublin in to view to strengthen links and collaborative opportunities between TRB & TRA.

The participation to the ICC meeting is open to all TRA Conference delegates in the limit of the room capacity.

This meeting will give the attendants the opportunity to learn more about TRB and how to engage in TRB Technical Committees. Attendants will also hear about the ICC role, activities, members and International Partners. The TRB critical issues in Transportation will be presented and further open to discussion with ICC Partners, Members and audience.

Interested to know more, join the ICC LinkedIn Group or register as a friend to the ICC via MyTRB

Presiding Officers:

Caroline Alméras & Christos Xenophontos, TRB International Coordinating Council Co-Chairs

Date:
Wednesday 17 April

Time:

14:30 - 16:30

Location:
RDS Merrion Room (first floor) & online

Thank You to Our Partners

TRA SINCERELY THANKS OUR 2024 PARTNERS
FOR THEIR CONTINUED SUPPORT

DIAMOND PARTNER

Collins Aerospace
An RTX Business

NTA
Údarás Náisiúnta Iompair
National Transport Authority

Valeo

PLATINUM PARTNER

UKRI Innovate UK

GOLD PARTNERS

BEPA
Batteries European Partnership Association

BMW GROUP

Enterprise Ireland

IDA Ireland

SILVER PARTNERS

ABB

arrb SYSTEMS

ARUP

Bus Éireann

Gas Networks Ireland

Iarnród Éireann
Irish Rail

westermo

BRONZE PARTNERS

Aer Lingus

AVL

Bus Átha Cliath
Dublin Bus

Dublin City Council
Comhairle Cathrach Bhaile Átha Cliath

PNO
PNO GROUP

roadstone
A CRH COMPANY

seai
SUSTAINABLE ENERGY AUTHORITY OF IRELAND

Thank You to Our Exhibiting Partners

Lagan OPERATIONS & MAINTENANCE
LERO Software for a better world
LOGISTICS ASSOCIATE APPRENTICESHIP
MANNA
MARBEL
measure
mergon
MOBY
FRONTIER FUTURE MOBILITY
PLASMA BOUND
TANGENT
Provizio
RMO An Oifig um Bainistiú Bóithre Road Management Office
REFLECTIVE
sesar JOINT UNDERTAKING
SPRINGER NATURE
swiss booth
SYSTRA
THE BIG BRIDGE
TII Transport Infrastructure Ireland
TROIA
micd Mobility Innovation Centre Delft
UITP ADVANCING PUBLIC TRANSPORT
unife THE EUROPEAN RAIL INDUSTRY
UNIVERSITY OF LIMERICK OLLSCOIL LUIMNIGH
Universidade do Minho
VAISALA
VENTAC
VIAPLUS by VINCI HIGHWAYS
VIVACITY
vti
WATERBORNE
weev Weev got the power

Thank you to our Google Innovation & Incubation Zone Exhibiting Partners

C-ROADS Ireland
elogic
PALTECH Polymer Alloy Technology
The Discovery Programme Centre for Archaeology and Innovation Ireland
TransiTool
TURKU AMK
ubiwhere
OLLSCOIL NA GAILLIMHE UNIVERSITY OF GALWAY
UNIVERSITY OF LIMERICK OLLSCOIL LUIMNIGH | SIGNE

waterborne days | 26/27 SEP 2023 CONFERENCE

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 101006923

ZERO-EMISSIONS WATERBORNE TRANSPORT

Delivering innovative EU growth

Find out more about the European research and innovation platform for waterborne industries