



An Roinn Iompair
Department of Transport



TRA

TRANSPORT RESEARCH ARENA

DUBLIN 2024

10th CONFERENCE • 14-18 April

TRA2024 Dublin

Stakeholder Webinar 2

28 October 2022



TRA2024 Dublin



AGENDA

10:00 - 10:05	Introduction	John McCarthy, DoT
10:05 - 10:30	TRA2022 Lisbon Conference Overview	Ciaran McNally
10:30 - 10:40	Update on Preparations for TRA2024 Dublin	Albert Daly
10:40 - 10:45	Stakeholder Engagement	Bob Flynn
10:45 - 10:55	Questions and Answers	
10:55 - 11:00	AOB	

A Preview of TRA2022

Ciaran McNally

UCD School of Civil Engineering

ciaran.mcnally@ucd.ie



Some Information

- TRA2018 in Vienna – 3700 attendees
- TRA2020 in Helsinki – online event (Covid)
- TRA2022 in Lisbon – in 2 weeks time
- TRA2024 in Dublin – ?

TRA2022

TRA Lisbon

- Runs for 4 days November 14th to 17th
- About 2000 attendees
- Covering all things transport related

Today: Give an overview of what TRA is about, and start thinking about what TRA2024 could look like



Conference Overview

- Over 100 technical sessions
- Side events
- Exhibitions
- Technical visits
- Networking & social events



A Multi-Modal Conference

Conference committees feature representatives from:

- European Commission
- ERTRAC for road, ERRAC rail, WATERBORNE water, ACARE air, ALICE logistics, ECTP construction
- CEDR representing road operators
- ETRA for European Transport Research Alliance (which ECTRI, FEHRL are involved with 3 research association EURNEX, HUMNIST, FERSI)

Conference Themes

- Smart Solutions and Society
- Green Mobility and Decarbonisation
- Innovative Infrastructure for Europe 2030
- Policies and Economics for a Competitive Europe
- Each theme addressed by a plenary session

Plenary Sessions

- One session each day
- Prominently placed, each 75 mins
- Commonly feature a panel discussion

Plenary 1: Smart Solutions & Society

- Smart technologies (AI, IoT, CCAM etc) supporting user demands and needs
- Faster mobilization to meet the growing expectations of EU citizens
- Ensuring future mobility services develop in a way that is participatory, affordable, and inclusive

Plenary 1: Smart Solutions & Society

- How to use MaaS and PaaS systems to achieve ‘smart cities’ or ‘smart hubs’?
- How will smart technologies provide user-centred mobility solutions for a post-COVID way of life?
- How to make “smart” available beyond city centres?
- The “digital and just transition” – transition to what?
- What is the role of transport safety in a smart society?

Plenary 1: Smart Solutions & Society



Speakers include:

- Anke Kaysser-Pyzalla, Chair of the German Aerospace Centre
- Evangelos Bekiaris, Director at Hellenic Institute of Transport
- Francois Régis Le Tourneau, Chairman at ALICE (Logistics TP)
- Mário Filipe Campolargo, Portuguese Secretary of State for Digitalisation
- Herald Ruijters, Deputy Director General DG MOVE



Plenary 2: Green Mobility and Decarbonisation



- How do we get to carbon-neutral / climate neutral within the given timeframe?
- How do we prepare the existing physical infrastructure to support mobility digitalization (not only urban)?
- How to ensure the use of alternative mobility solutions that lead to a greener society?



Plenary 2: Green Mobility and Decarbonisation



- An integrated energy & fuel consumption approach to decarbonize passenger and freight transport segments
- Does electrification of transport contribute to decarbonization, and is it truly doable?
- Why is it so important to decarbonize cities, and how can we do it?



Plenary 2: Green Mobility and Decarbonisation



Speakers include:

- Charlotte Huebner, Director ESG at Maersk
- Francisco Jose Cardoso dos Reis, Chairman of UIC Europe, Senior Advisor at Infraestruturas de Portugal
- Luca Bedon, Head of R&T at AvioAero – GE Aviation Business
- Patrick Child, Deputy Director-General DG ENV
- Peter Lehnert, Vice President at BMW



Plenary 3: Innovative Infrastructure for Europe 2030



- How to make our mobility-related infrastructure enable seamless transport across Europe
- How do we prepare the existing physical infrastructure to support mobility digitalization (not only urban)?
- How can transport hubs become Green Deal Hubs?



Plenary 3: Innovative Infrastructure for Europe 2030



- Promoting innovation for sustainable regional deployment, focusing on efficient use of public space and circularity
- Innovation to reduce demand for new infrastructure construction increased land / resource use?
- How will the Recovery and Resilience Facility (RFF) impact on European infrastructure?



Plenary 3: Innovative Infrastructure for Europe 2030



Speakers include:

- Annaleena Mäkilä, Chair of European Sea Port Association
- Bo Olsson, Chief Strategist at Trafikverket
- Firas Ibrahim, Director of R&D & Technology, US DoT
- João Caetano, President, Portuguese Institute Mobility & Transport
- Dirk Beckers, Director at CINEA
- Pietro D'Arpa, VP Supply Chain Procter & Gamble Europe



Plenary 4: Policies and Economics for a Competitive Europe

- How will we reach and maintain a leading role in Europe?
- How do we prepare the existing physical infrastructure to support mobility's digitalisation, not only in urban areas?
- How do we ensure a green EU transport system?
- How can research support market competitiveness and the return of EU production facilities?

Plenary 4: Policies and Economics for a Competitive Europe



- What are the most efficient transport measures to respond to climate emergencies?
- How will a levelled playfield across transport modes be achieved in terms of greenhouse emissions?
- How to use and articulate the different EU funds to support innovation, including Horizon Europe?



Plenary 4: Policies and Economics for a Competitive Europe



Speakers include:

- Antonella Trombetta, Director, European Affairs, Hitachi Rail STS
- Eero Lehtovaara, Chair, Waterborne Technology Platform
- Jan Ludvík, Engineering Director, Europe at Honeywell
- Rosalinde van der Vlies, Director, Clean Planet Directorate, EC
- Jean-Luc di Paola-Galloni, Vice President, Valeo
- Maria da Graça Carvalho, MEP



Strategic Sessions

- The second level of sessions (after plenary)
- 1 set of strategic sessions per day
 - Relates to the theme of the day
- 3 strategic sessions in parallel

Strategic Sessions

For example, Tuesdays plenary addresses *Green Mobility & Decarbonisation*. The related strategic sessions are:

- SS 2.1: Boosting the uptake of zero-emission vehicles, vessels, aircraft, renewable & low-carbon fuels and related infrastructure
- SS 2.2 – Time to Act: Reaching Climate Neutral Cities by 2030
- SS 2.3 – Innovative concepts and services for zero emission mobility and logistics sessions in parallel

Strategic Sessions

SS 2.2 – Time to Act: Reaching Climate Neutral Cities by 2030

- The role of the transport sector in reaching climate neutrality in cities
- Stakeholder involvement and co-creation for decarbonisation policies
- How to ensure a just transition
- The role of innovation in reaching climate-neutrality
- How to get the private sector on board as an ally in decarbonization
- How to align innovation with policy goals

Strategic Sessions

SS 2.2 – Time to Act: Reaching Climate Neutral Cities by 2030

- The role of the transport sector in reaching climate neutrality in cities
- Stakeholder involvement and co-creation for decarbonisation policies
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Strategic Sessions

Speakers

- Melanie van der Horst, Deputy Mayor, City of Amsterdam
- Nikola Rogatchev, Chairman, Sofia Urban Mobility Centre
- Charlotte Migne, Sustainability Director, FM Logistic Group
- Armin Graeter, Leader Digitalisation and Automated Driving, BMW Group
- Thomas Osdoba, Programme NetZeroCities Mission Platform
- Cécile Texier, Sustainability & CSR Vice-president, Alstom

Strategic Sessions

Similar process for other themes:

Theme 1: Smart Solutions and Society

- SS 1.1 – Mobility for all: fair, inclusive, affordable and accessible in all places
- SS 1.2 – Connected and Automated Multimodal Mobility in Europe – Paving the way to deployment
- SS 1.3 – Artificial Intelligence for smart and sustainable mobility

Strategic Sessions

Similar process for other themes:

Theme 3: Innovative Infrastructure for Europe 2030

- SS 3.1 – Enabling smarter and safer infrastructure, supporting the digital and energy transition, through life cycle innovation
- SS 3.2 – Sustainable ports and airports
- SS 3.3 – New approaches for human behaviour, HMI and safety analysis – across all modes

Strategic Sessions

Similar process for other themes:

Theme 4: Innovative Infrastructure for Europe 2030

- SS 4.1 – LCA approaches and circular economy to enhance sustainability of mobility solutions, including tendering process
- SS 4.2 – Open Science in transport research around the world
- SS 4.3 – Supporting a global sustainable competitiveness & industrial policy through EU public-private partnerships

Technical Sessions

- TRA also features many technical / special sessions / poster sessions
- Paper review process:
 - >1000 abstract submissions
 - Approx 450 papers accepted for presentation
 - Top papers published in journal special editions (ETRR and Transport Policy)
- TRA runs 10 no 90 minute parallel technical / invited sessions

Invited Sessions

- Proposals for invited sessions are submitted to the conference organisers
- All applications are reviewed by the Programme Committee; merging of applications common to achieve balance
- Session format is up to organisers – can be similar to technical sessions, workshops, discussion panels etc; format is open

Invited Sessions

Example: Invited Session 24 – Towards Sustainable Urban Air Mobility (UAM)

This UAM session aims to present the relevant R&I players and the key breakthrough innovations in the UAM and unmanned aircraft global industry, and research actors around the latest technology innovations in Europe.

Speakers: Project coordinators from AIRMOUR, AURORA, ASSURED-UAM, FF2020 (UAM) projects.

Exhibitions & Demonstrations

- Pavilion 1: 1800 m² demonstration space
- Pavilion 2: 3800 m² demonstration space
- Outdoors: 1000 m² demonstration space

- Exhibitors include companies, international associations, research projects etc who develop stands for networking

Exhibitions & Demonstrations

Demonstrations: a key element of the TRA experience

Live demonstration of i-DREAMS project real-time driver assistance and post-trip gamification technology



Organised by: i-DREAMS project

Co-organisers: IMOB UHasselt, Barraqueiro Transportes S.A., CardioID, NTUA, Loughborough University, TUM, KFV, TUD, University of Maribor, DSS, Oseven, ETSC and POLIS

Description: Participants will be able to experience the power of the i-DREAMS real-time assistance technology in a driving simulator, and will be able to interact with different i-DREAMS technologies, such as the i-DREAMS smartphone app, the i-DREAMS web dashboard and view real-time output from the system. An i-DREAMS instrumented car and bus will be available **outside the demonstration area**. Short trips will be organized where visitors can see the system live in operation.

Technical Visits

- Visits to key transport-relevant facilities in Lisbon
- Spaces limited – usually a nominal charge to ensure attendance
- Lisbon visits include:

Technical Visits

Tour of the 25 de Abril suspension bridge



Technical Visits

Lisbon Air Traffic Control Centre



Technical Visits

Mobi-Cascais: Portugals first MaaS Deployment



TRA Visions

- Competition to recognize the best young and senior researchers in Europe



Other Events

- Gala dinner
- Project Meetings
- Meetings of International Associations
- Stakeholder Meetings

Summary

- TRA is a very large event
- Much more than an academic conference – key forum for the majority of European transport stakeholders
- Demonstrations / exhibitions also a key part of the TRA experience



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TRA2024 Dublin

Update on Preparations for
TRA2024 Dublin



TRA2024 Dublin

BACKGROUND TO TRA



- Set up by CEDR and other stakeholders in 2006 to provide a forum for the discussion of new trends affecting transport and mobility
- TRA takes place every two years in a different location in Europe
- Key European transport conference - co-hosted by European Commission
- Forum for presenting the latest research and innovation in the transport and mobility sector
- Covers all modes of transport: road, rail, water, aviation as well as cross-modality in urban and inter-urban settings
- Target audience: All transport stakeholders - Policy makers, Infrastructure providers, Transport Operators, Vehicle manufacturers, Designers, Suppliers, Academia

TRA2024 Dublin

TRANSPORT RESEARCH ARENA provides an arena for:

- Networking between researchers, industry, public administrations, transport operators, users and other stakeholders across all transport modes
- Policy makers framing transport policy and research
- Showcasing new ideas, technological solutions and new business models
- Experiencing the future of transport and mobility
- Mobilising the best exchange of information and best practices



Previous TRAs

- TRA 2006, Goteborg (972)
- TRA 2008, Ljubljana (1,181)
- TRA 2012, Athens (1,600)
- TRA 2010, Brussels (N/A)
- TRA 2014, Paris (2,900)
- TRA 2016, Warsaw (2,200)
- TRA 2018, Vienna (3,600)
- TRA 2020, ~~Helsinki, Finland~~

This year

- TRA 2022, Lisbon, Portugal
- **TRA 2024, Dublin, Ireland**



TRA 2024 in DUBLIN – Benefits to Mobility in Ireland

*Opportunity to showcase Ireland as a destination for tourism
Added appeal that it will be the 10th TRA since inception in 2006*



- ✓ Opportunity to present Ireland as a knowledge economy and showcase the achievements of Ireland in developing a modern transport and mobility system
- ✓ Chance to strengthen the links between Ireland and the wider European community
- ✓ Provides a unique opportunity to learn about:
 - mobility trends in different parts of Europe,
 - mobility developments by Irish industry,
 - best practice of policies and deployments as it brings together researchers, industry leaders, policy makers, public administrators, and mobility leaders

Benefits of Hosting TRA Conferences to the Host Country



- ✓ Showcase for Irish Industrial Stakeholders:
 - Government bodies such as SFI, SEAI, EI, IDA, IMDO, DAA, IAA, CRR, Iarnród Eireann, DoT, NTA, TII and Stakeholder groups such as ITS Ireland, involvement and contributions to developing a modern mobility system
 - National research programmes and Irish involvement in EU research projects
 - Research capabilities of Irish universities and other organisations
- ✓ Generation of platform for networking and cooperation in international research
- ✓ Informing national policies and strategies in relation to transport and mobility
- ✓ Opportunity to motivate young researchers in research and innovation in mobility
- ✓ Position Ireland as a centre of excellence in research and innovation in mobility

Update

Logistics of TRA2024 Dublin

- Working with conference organiser Conference Partners International
- Conference budget (target numbers for sponsors, exhibitors, delegates)
- Determining venue requirements (RDS)

Governance

Branding

Communications

- Stakeholders – national and European
- Webinars and newsletters

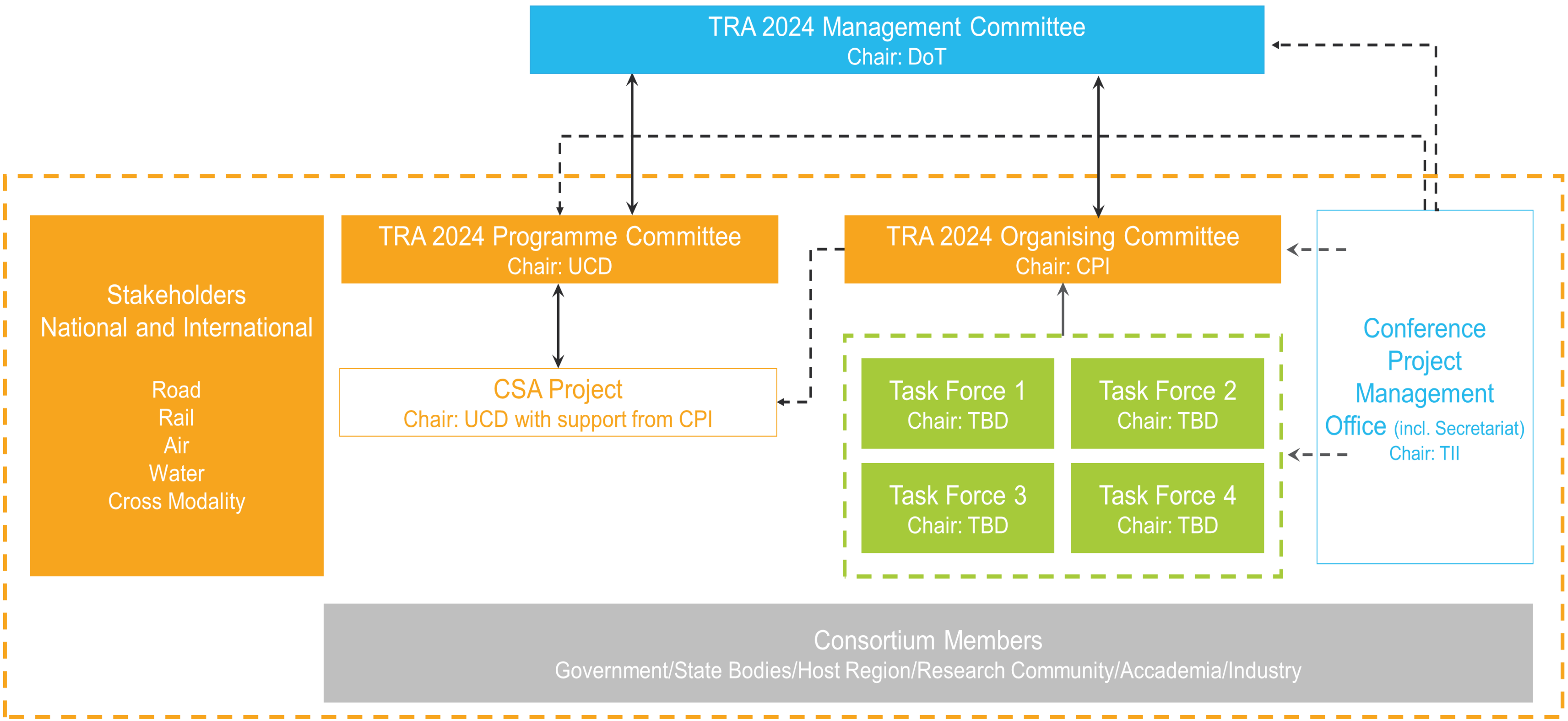
Developing Themes for conference

Presence in Lisbon

- Stand
- Hand-over ceremony



TRA2024 Governance Structure



Legend: Supporting - - - - - Reporting ———



TRA2022 in Lisbon

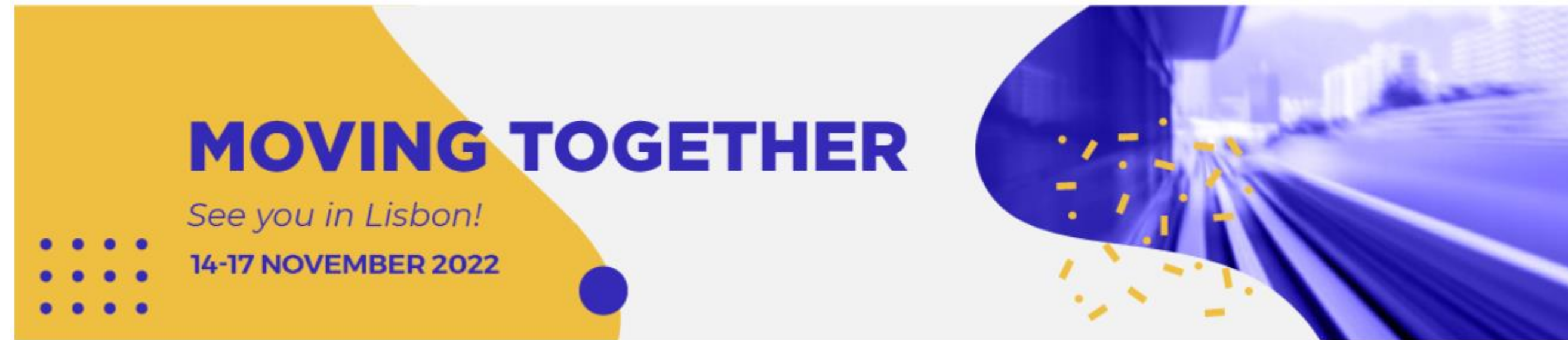
Taking place in [Lisbon](#), Portugal from [14-17 November 2022](#)
at the [Lisbon Congress Center \(CCL\)](#)



BEM-VINDO AO CENTRO DE CONGRESSOS DE LISBOA

Situado junto ao rio Tejo, perto da zona de património histórico-cultural de Belém, a escassos minutos do centro da cidade, em zona beneficiada com uma vasta alternativa de transportes, localiza-se o Centro de Congressos de Lisboa, um espaço acolhedor para realizar congressos,

TRA2022 in Lisbon



Conference Website: <https://traconference.eu>

<https://youtu.be/5NCGWakj-AE>

TRA 2022 Conference Themes

Smart Solutions and Society

- User-Focus and Inclusive Mobility
- Connected and Automated Multimodal Mobility
- Innovation and the Use of Data, ITS and AI
- Efficient and Innovative Logistics

Green Mobility and Decarbonisation

- Carbon Neutrality and Zero Emission Vehicles
- Energy Efficiency, Electrification and Alternative Fuels
- Sustainable Interurban and Urban Mobility
- Greening Freight Transport

Innovative Infrastructure for Europe 2030

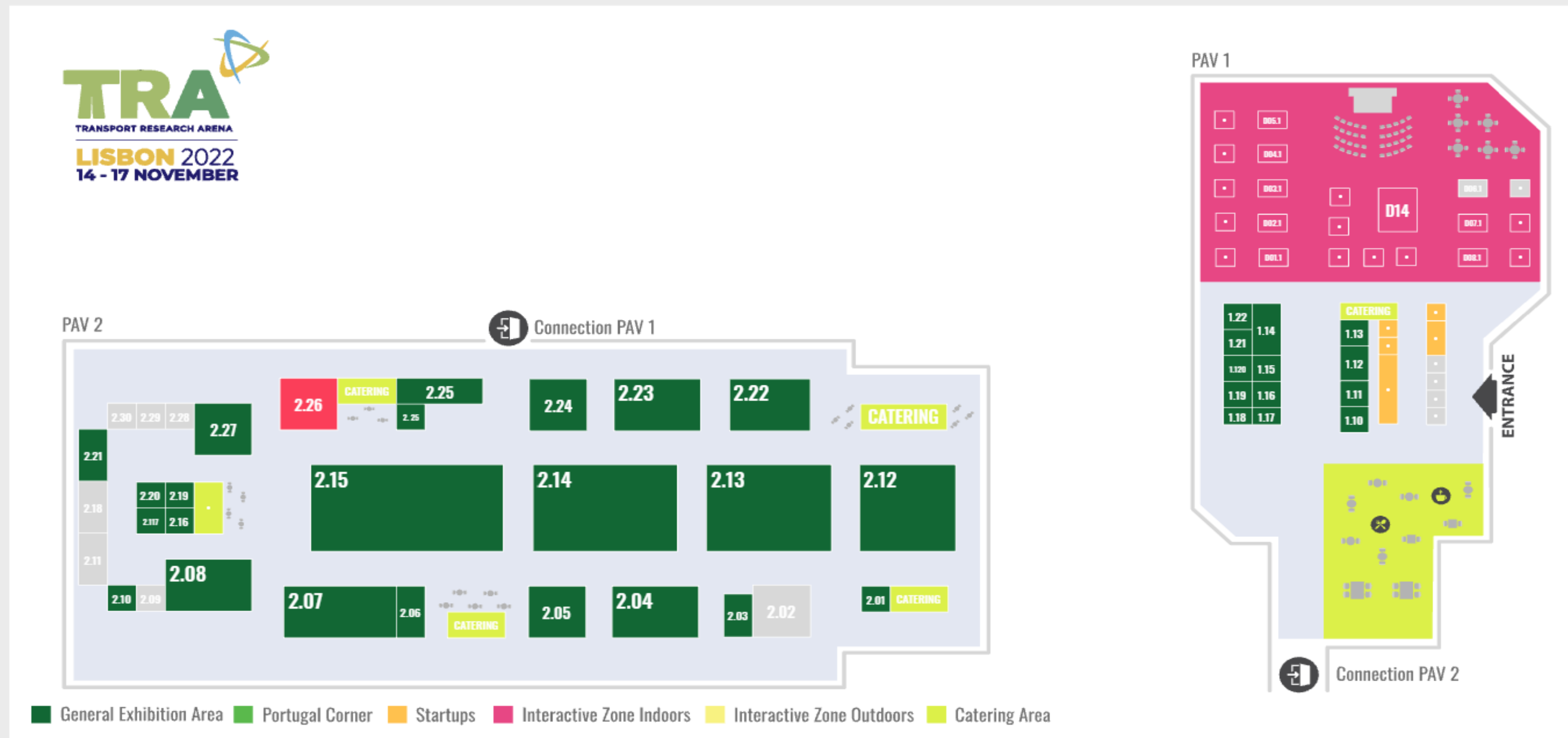
- Single Market for Ten-T and the Wider Europe
- Intelligent, Resilient and Cooperative Infrastructure Systems
- Innovative Hubs
- Safety and Security

Policies and Economics for a Competitive Europe

- Transport Planning and Policy for Recovery and Resilience
- Innovative Business and Governance Models
- Internalisation of Transport Externalities and Pricing Carbon
- Supporting Competitiveness & Industrial Policy



Floor Plan of General Exhibition Area Lisbon



The TRA2024 Dublin Stand is 2.26: CPI (Conference Partners International) will manage our presence



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Go raibh maith agaibh

Thank you all for your support

To register interest in the conference please email

TRA2024SD@tii.ie

Presentations posted on TII Website at <https://www.tii.ie/>
TII research section – Road to TRA2024

Link to TRA2022 in Lisbon: Full details of the conference
can be found at
<https://traconference.eu>