

CALL FOR CONTRIBUTIONS



EUROPEAN CONGRESS

LISBON, PORTUGAL
22-24 MAY 2023

ITS: The Game Changer.

www.itseuropeancongress.com

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for the ITS European
Congress

ITS: The Game Changer.

3

ITS EUROPEAN CONGRESS 2023
ITS: The Game Changer

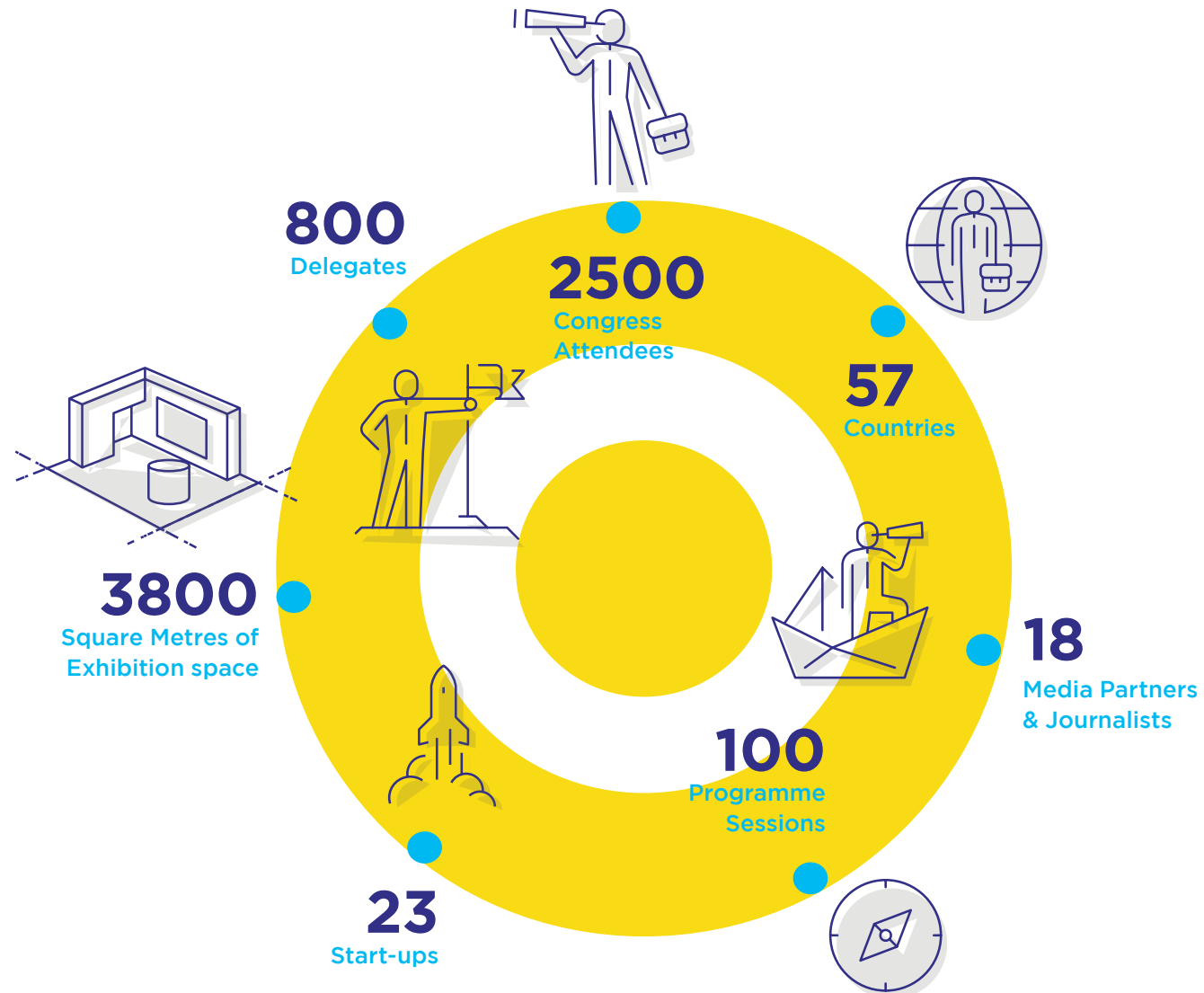
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#ITSLisbon2023

A unique opportunity

What to expect

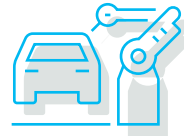
- Exchange information with 2500 industry stakeholders and influencers
- Discover the latest smart mobility solutions
- Develop your brand with business & partnership opportunities
- Be part of a state-of-the-art exhibition



A unique opportunity

- Network with a range of public and private European ITS stakeholders
- Experience the latest mobility trends and solutions from a wide range of inspiring companies and organisations

Our Delegates



Automotive
Manufacturers



ITS National
Associations



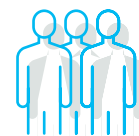
Road Operators
and Concessionaires



Consulting
Industry



Municipalities
and City Councils



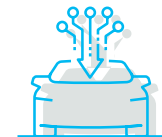
National & Regional
Transportation
Authorities



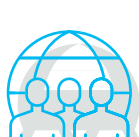
System Integrators



Infrastructure
Operators



AI for Transportation



Regulators



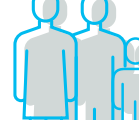
Telecommunication
Operators



EU Commission and
Intergovernmental
Organisations



Academic & Research
Institutions



Users and Consumer
Associations



Suppliers

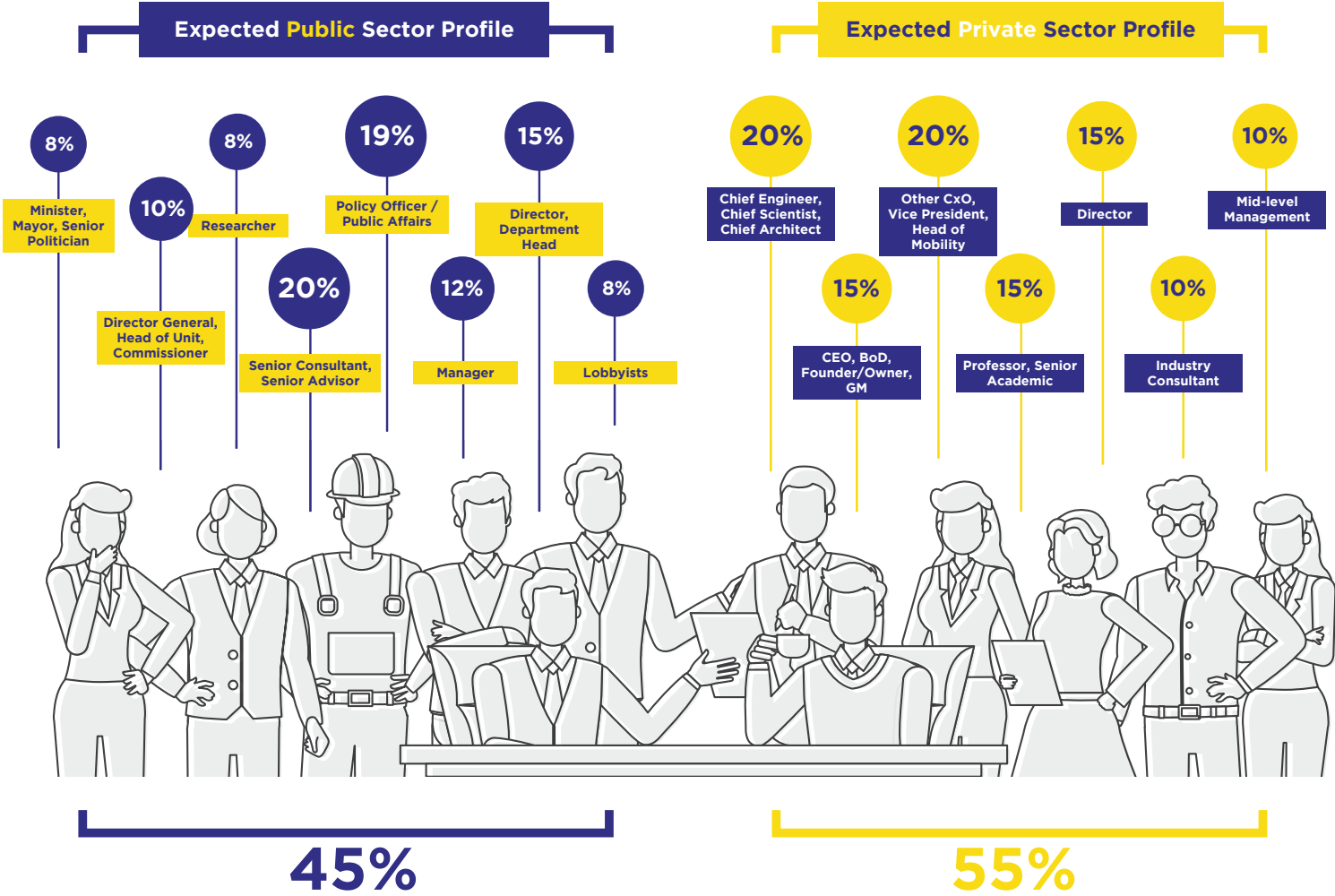


ITS & Space
Exploration

A unique opportunity

- Hear from top mobility experts, CEO's, CTO's and key decision makers that shape the future of ITS today

Participant Profile



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ERTICO - ITS Europe

is a public-private partnership of over 120 companies and organisations representing service providers, suppliers, traffic and transport industry, research, public authorities, user organisations, mobile network operators, and vehicle manufacturers.

Together with our Partners, we develop, promote and deploy Intelligent Transport Systems and Services (ITS) through activities including European co-funded projects, innovation platforms, international cooperation, advocacy and events. Our work focuses on Connected & Automated Driving, Urban Mobility, Clean Mobility, and Transport & Logistics.

www.ertico.com



Lisbon Municipality

The Lisbon City Council is the executive body of Lisbon's Municipality and its mission is to define and execute policies that promote the development of Lisbon in different areas. Specifically involved in the organisation of ITS Lisbon 2023 will be the Councilman for Mobility and Safety, working for a change of paradigm in Lisbon's mobility.

The Municipality is constantly promoting solutions that aim to reduce dependence on the private vehicle, while making mobility better as a whole, improving the quality of life and health for the people of Lisbon.

Lisbon Municipality supervises bus and tram operations through CARRIS, parking and shared bicycle network GIRA through EMEL, safety and security with the Municipal Police.

It also has the direct management and development of mobility plans, traffic lights optimisation, bicycle paths implementation and speed detection instruments.

The Municipality aims to lead-by-example in a global movement that includes several stakeholders such as Government, other Municipalities, transport operators, infrastructure managers, among others, thriving to make Mobility efficient, sustainable and accessible to everyone.

www.visitlisboa.com

JOIN US IN LISBON

for the ITS European Congress.

ITS: The Game Changer.



Lisa Boch-Andersen
Communications, Congresses,
and Events Director

ERTICO - ITS Europe and the City of Lisbon will proudly host the 15th European ITS Congress in the Centre of Lisbon, from 22 May to 24 May 2023. The event will take place at the Lisbon Congress Centre - CCL, located close to the river Tagus and to the historic and cultural heritage of Belem.

Lisbon is one of the oldest cities in the world, firmly placed at the crossroads between tradition and innovation, blending historic areas with a modern forward thinking business district on the waterfront. Lisbon is a dynamic city, possessed with a rich cultural past with two historic landmarks listed by UNESCO as World Heritage sites (Belém Tower and Jerónimos Monastery). Yet, Lisbon is also a major European economic centre with a busy transport network and one of the largest container ports on Europe's Atlantic coast.

The ITS Congresses represent the ultimate showcase of mobility services deployment and are the means for the ITS Community to keep pace with the incredible evolution of the industry and cutting edge technologies. With its up-to-date high level and technical Conference Programme, Exhibition, Technical Visits and Demonstrations that strongly embrace the latest in smart mobility and the digitalisation of transport, this event offers both learning possibilities and the opportunities to network with some of the most active players in the industry.

The ITS Congresses underline the importance of Intelligent Transport Systems (ITS), particularly in cities and regions where they are hosted and are important channels to raise awareness of smart mobility solutions among policy makers, experts and the general public.

Exhibiting and commercial partnerships are vital in contributing to the actuality and success of a Congress, showcasing big ideas and innovative solutions to smart mobility experts and influencers from around the world.

The ITS Congresses are a great vehicle in bringing together the ITS community to unite and share ideas, bridging the gaps and connecting the dots across all key mobility players.

I look forward to meeting you in Lisbon!

A handwritten signature in black ink that reads "Lisa Boch-Andersen".

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for the ITS European Congress.

ITS: The Game Changer.



Adina Vlean

European Commissioner
for Transport



Mariya Gabriel

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



Thierry Breton

European Commissioner for
Internal Market

Welcome to the 15th ITS European Congress

The European Commission would be very pleased to welcome you to the 15th ITS European Congress, to be hosted in Lisbon from 22 to 24 May 2023.

The main theme of next year's Congress, "ITS – The Game Changer", illustrates the capacity of Intelligent Transport Systems, digitalisation and automation to be a real game changer in our quest for reducing transport emissions, enhancing safety and strongly increasing overall efficiency in the mobility and transport sector. Many Intelligent Transport System technologies are already mature and new technologies are around the corner. This year's discussions shall present a holistic perspective of how accelerated rollout of ITS can change our mobility and lives.

The Congress constitutes the perfect place for stakeholders to share experiences and further develop their knowledge on the latest technology and policy developments in this area. It also offers a great opportunity to start new partnerships. Our host city is a champion of urban sustainability: with best practice on environmental management, good urban and mobility planning, and citizens at the heart of this transformation, Lisbon is a perfect example of how to turn challenges into opportunities.

This year, the event will display the host city's latest achievements in the field of intelligent mobility services and their link to the city's changing mobility vision and strategy. In this context, the Congress offers the opportunity for a comprehensive review of topical issues, including on connected and automated mobility, new mobility services, transport network design and transport network operations.

The Congress will also specifically look at other issues such as digitalisation and data value chain, freight and logistics, illustrating also how ITS can be the link between the various modes of transport and the "game changer" for the different stakeholders.

We truly hope you will participate and enrich the Congress with your experience, enthusiasm and knowledge. Together, let us ensure that ITS can bring better services, new solutions and business cases to support European economy.

Looking forward to seeing you in Lisbon.

Yours faithfully,



Introducing the ITS European Congress 2023 in Lisbon

ITS: The Game Changer.

Welcome to Europe's hub for innovation and smart mobility.

With the theme **ITS: The Game Changer**, the 15th ITS European Congress, organised by ERTICO – ITS Europe and the European Commission, will showcase the latest technologies adopted by the Lisbon Region, host of the event, together with all the available ITS services and solutions in Europe.

Lisbon is part of Europe's entrepreneurial and innovation ecosystem and enjoys global recognition as a welcoming destination. This, combined with ERTICO's mission and work to promote and develop smart mobility services, promises a fantastic programme, innovative live demonstrations and a great experience overall.

The sheer speed and scope of ITS, propelled by technological developments, social and environmental needs, are unprecedented. ITS has already made transportation much more efficient, demand-responsive and safe. And more is to come. The innovative potential of ITS is too vast to foretell our mobile future. We only know that **ITS: The Game Changer**, will keep changing the game – and us.

Congress topics

The Congress is organised under the five key topics listed below.



01

Cooperative, connected and automated mobility

Quite soon almost every vehicle and every traveller will be connected. Being always aware of what is going on in transport and surrounding sectors is having profound effects on mobility and its users. New kinds of transport modes and personalised services are appearing based on data sharing and connectivity at any time and everywhere. At the same time highly automated driving has the potential to change the role of a driver from active vehicle occupant to a passenger being transported in a safe and efficient manner to the destination. The main problems of future transport systems will not be accidents or emissions, but cybersecurity and maintaining human control.

How do we guarantee backwards compatibility and the cooperative dimension during the transition period? How do we synchronise the investments necessary in the communications, physical and digital infrastructure as well as new transport system policies, new business models, new technology and services? How should we move forward with institutional, regulatory and legal issues, including liability? In short, what are the best ways to get there?



02

New mobility services

The mobility sector is changing – end-users are becoming more influential in policy-setting while providers continue to launch new services. But not all new suppliers have successfully adapted to cities' expectations and some solutions, e.g. shared micro-mobility or urban air mobility, challenge traditional policies and markets. Only open schemes, such as Mobility as a Service (MaaS), involving public and private entities cooperating will deliver high value and move us towards the reconfiguration and long-term stability of urban mobility.

New business and governance models are urgently needed, for both public and private sectors, to make the operation of all types of solutions economically viable and societally sound.

Interoperability and backwards compatibility are key to integrating both MaaS and newer services into existing strategies, systems and infrastructure, not only for technical specifications but also for commercial, operational and regulatory requirements.

Who will – or should – take the first step to bring all stakeholders together? How can we integrate new services into long-term planning when the benefits and disadvantages are not yet fully known? How do we support innovations and new businesses while simultaneously safeguarding safety, accessibility, energy use, sustainability and environmental policies that match the ambitions and budgets of cities and users?



03

Freight & logistics

While freight transport and wider logistics have often been seen as a very “traditional” field, current developments are leading the sector into a new era in which goods might well be transported by driverless vehicles. Fully driverless trucks, as well as platooning, are attracting media attention raising questions not just on the future of truck drivers’ skills and jobs but also on how automation can mitigate current and future increase in driver shortage. As well as deliveries by drones, robots of various sizes and shapes will bring goods to the customers where and when needed, promising multiple new benefits to the users and society and at the same time coming up with a number of new business, policy and technical challenges.

New freight platforms are being deployed to connect freight and logistics stakeholders across Europe. Many companies use fleet management solutions to optimise operations but usually the associated data stays within companies so it cannot be used to improve operations at ports, rail terminals and airports, limiting the effectiveness of intermodal transport and cooperation with other relevant stakeholders. Such platforms are enabled by the wide uptake of new technologies and digitalisation of all freight transport documents but this is not allowed everywhere in Europe so the industry has not yet embraced them whole-heartedly.

On another aspect, what could the industry learn from existing ITS implementations? How can digitalisation and electrification of freight deliveries directly reduce CO2 emissions?

04

Digitalisation and the data value chain

Satellite and terrestrial telecoms are giving us fast and affordable connectivity plus precise location referencing; data from vehicles, other sensors and network operations are allowing everyone real-time information and multimodal mobility opportunities that can be accessed from a range of mobile devices. Today’s “digital generation” companies and users are learning how to integrate and use this data and move the focus from collecting, storing and owning it to processing and using it.

We have yet to determine how best to develop, deploy and operate digital infrastructure. Cities often own a great deal of mobility data but hesitate to share it with transport suppliers because of concerns about privacy, safety and liability. Similarly, suppliers are concerned about maintaining commercial security and competitiveness. We need to speed up moves to bring the parties together for cooperative, shared, innovative solutions that bring benefit to the entire value chain.

Achieving integrated ITS across Europe for seamless multimodal transport and mobility services, operating on digital infrastructure, relies on digital data exchange without borders, on discoverability, harmonisation and rapid access to any data, publicly / privately generated and owned. Do we have the right data platforms, standards and legal frameworks to deliver truly game-changing services to users at affordable prices? What more needs to be done? Which organisations should take the lead?

05

Future traffic management

Transport network management has developed in capabilities from the reactive control of small areas to the predictive management of large regions. The key next steps are integration of network management with connected, cooperative and automated mobility, with timetabling and routing of public transport, with MaaS platforms, with freight & service delivery, and with policies on air quality, noise and sustainability, so that public policy objectives regarding health, safety, equitable access and efficiency can be effectively pursued while preserving individuals’ choice of mobility options.

The technologies are available, but how to use them efficiently to better manage city space for a mixed population of freight and passenger vehicles? How can we increase the security and resilience of networks so that services remain operational after disruption from pandemics, cyber- and other attacks, withdrawals of service? What changes are needed to transport networks in order to mitigate climate change through electrification of all vehicles? How can we integrate land, sea and air network management to offer true multimodality?

Technical Programme

**A valuable knowledge source and showcase of the latest innovations!
Presentations, Demonstrations and State-of-the-Art Exhibition under one roof.**

The 15th ITS European Congress will host Opening Ceremony, Plenary Sessions and Closing Ceremony, all part of the High Level Programme, that will feature contributions by major personalities from the ITS world, influential industry leaders, and senior executives from National and Local Government. They will draw from their experiences to share their views on ITS achievements, opportunities and challenges as they address key mobility issues. All attendees are welcome to join the Opening and Closing Ceremonies as well as the Plenary Sessions.

The Congress will also host a prestigious ITS Summit at the Lisbon Congress Centre on Monday 22 May 2023. The Summit, an invitation only event, will gather Mayors, senior National and Local Government policy makers and ITS Industry leaders to review how smart mobility can contribute to sustainable development and to a better environment for all citizens.

In terms of the Technical Programme, the Congress will include a range of Specialist Sessions that offer experts from the ITS community an opportunity to address the status of mobility from a technical perspective, focussing on research and innovation, and the impact related to the deployment of new technologies: The four types of Specialist Sessions will focus on topical mobility issues and will cover practical, economic, technological, organisational and societal aspects of ITS. They are organised by groups of international experts developing and deploying ITS and provide an opportunity to focus in detail on specific topics of interest.

Join the top mobility experts during ITS Lisbon 2023 to discuss key topics in the transport industry today, experience a strategic opportunity for all mobility stakeholders to come together, share knowledge, exchange best practices and make the necessary contacts to develop your businesses!

SPECIALIST SESSIONS



Special Interest Sessions (SIS)

Organised at the request of groups of international experts developing and deploying ITS, these sessions delve deeper into the state of the art, the remaining challenges and key trends.



Strategic Future Sessions (SFS)

These highly interactive discussion sessions look forward and review options, problems, technical barriers, etc. rather than reporting on work that has been completed.



Technical / Research Paper Sessions

These sessions contribute to the ITS body of knowledge with reports ranging from the operational use of systems and deployment of services to research and development of new applications.



Start-up Presentation Sessions

These are an opportunity for small companies in the initial stages of business to set out the technical, commercial or business novelty of their product or service.

Call for Contributions to the Technical Programme

- Special Interest Sessions
- Strategic Future Sessions
- Technical and Research Paper Sessions
- Start-up Presentations Sessions

General Aspects

- All proposals must be submitted online in **English**.
- Proposals must be original and address technology issues or the institutional, business, societal or economic aspects of ITS.
- All submissions must include the name, organisation, country and email address of the author/organiser. **SIS & SFS** proposals must also include these details for the moderator and at least **three confirmed speakers**.
- All Paper submissions must be in the template on the submission portal.
- All session speakers, moderators and paper presenters **must register and pay** the appropriate Congress fee.
- Sessions without registered speakers by the given deadline may lose their slots to others from the reserve list.
- Acceptance of proposals is not linked to sponsorship, which is negotiated separately.

Sessions

Special Interest Sessions will mostly discuss work that is underway or recently completed in regionally, nationally or internationally. Organisers must submit a plan describing how a chosen set of speakers would address key aspects of important topics – achievements, problems, trends, technology developments, policies, etc.

Strategic Future Sessions must address a forward-looking “blue-sky” type of opportunity or problem. They may make a case for launching new ITS initiatives.

Review procedure

Reviewers from the European Programme Committee (EPC) will use these criteria to select sessions:

- Relevance to the overall Congress theme and chosen topic
- An interactive format rather than a series of presentations
- A discussion topic not featured in previous Congresses
- Proposals tackling a broad area rather than a single project
- An indication of what the individual speakers will contribute to the discussion
- A diverse and gender-balanced mix of moderators/speakers, with three confirmed speakers
- **SFS** must additionally describe the future and strategic aspects of one of the 10 designated topics and propose an innovative and interactive session format

Call for Contributions to the Technical Programme

- Special Interest Sessions
- Strategic Future Sessions
- Technical and Research Paper Sessions
- Start-up Presentations Sessions

Papers

Technical Papers must describe original work within the state of the art – for example, the implementation of a new solution that improves practice and from which others can learn, or the outcomes of practical work, trials, demonstrations and pilots.

Technical Papers must be between 5 and 10 pages.

Research Papers must describe work which advances the state of the art by adding something new or addressing a known weakness. They will be expected to show scholarship, innovation and analysis of new types of problem or solution rather than different approaches to previously researched areas.

Research Papers must be between 9 and 12 pages.

Review Procedure

External and independent reviewers will award a score and comment on the papers using these criteria:

- A draft submission containing enough detail and content to be judged appropriately
- An abstract with a clear summary of the scope, methodology and outcome of the work
- Sufficient data to support the findings and conclusions with wider applicability
- Existing work well described and properly referenced
- Appropriate and properly argued conclusions
- A significant contribution to the state of the ITS art or practice

Note: Submissions judged as not matching the Research Paper criteria may still be accepted as Technical Papers.

Call for Contributions to the Technical Programme

- Special Interest Sessions
- Strategic Future Sessions
- Technical and Research Paper Sessions
- Start-up Presentations Sessions

Start-up Presentations

- Start-up exhibitors at the Congress can apply for a place in a presenting session in the main programme.
- There is a free choice of presentation style and method; the allocated time will be strictly enforced.
- There will be a 'Best start-up presentation' Award. Members of a small jury will attend all Start-up Presentations and jointly decide which have made most impact.

Notification

- Session organisers will be notified of the EPC's decisions by the published deadline by email.
 - Some organisers may be asked to combine their sessions to avoid duplication.
 - Speaker confirmations may also be requested.
- Conditionally accepted papers will require authors to address the reviewers' comments before being fully accepted.
- Authors of fully accepted papers will have a chance to update them closer to the Congress date.

For all Submissions

- Detailed guidelines are available on the submission portal.
- Each completed submission will receive an auto-generated acknowledgment email with the ID number and contact details of the submitter. This confirmation of receipt does not signify acceptance.

Attendance and presentation options at the Congress are in-person only.

Key Dates

Call for contributions opens	22 September 2022
Submission deadline	16 December 2022
Status notification to submitters	From 20 March 2023 onwards

How to become a partner of the ITS European Congress

Exhibition

Join our industry exhibition as an exhibitor and be a part of an exclusive community of organisations, institutions and companies spearheading innovative and disruptive products, solutions and services.

Commercial Partnership

Perhaps you are seeking to contribute to the debate by providing fresh perspectives and thought leadership through a workshop. Or, you wish to change perceptions, and position, of your company's brand. Please take a look at our diverse range of partnership opportunities.

Commercial Partnership & Exhibition:

salescongress@mail.ertico.com

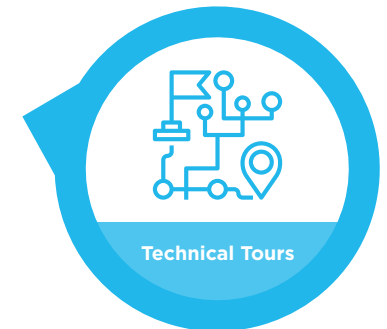


its

EUROPEAN
CONGRESS

LISBON, PORTUGAL
22-24 MAY 2023

ITS: The Game Changer.



European Programme Committee

Rolf Adomat, Continental AG, Germany
Vassilis Agouridas, AIRBUS Urban Mobility, Germany
Salahaldeen Almarzooqi, Road & Transport Authority, UAE
Khaled AbdulRahman Al Awadhi, Road & Transport Authority, UAE
Mousa Mohamed Al Raeisy, Road & Transport Authority, UAE
Pedro Barradas, ITS Portugal, Portugal
Ashweeni Beeharee, Satellite Applications Catapult, UK
Lisa Boch-Andersen, ERTICO-ITS Europe, Belgium
Darren Capes, Department for Transport, UK
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Sascha Westermann, Fujitsu, Germany



**EUROPEAN
CONGRESS**

**LISBON, PORTUGAL
22-24 MAY 2023**

ITS: The Game Changer.

ERTICO - ITS EUROPE PROGRAMME
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