

CALL FOR CONTRIBUTIONS



CENTRAL EASTERN CONGRESS

KAZAN, RUSSIA
21-24 SEPT 2020

Sharing Innovation -
Creating a Connected Future

www.itsinceeurope.com

ORGANISED BY:



HOSTED BY:



SUPPORTED BY:



SHARING INNOVATION - CREATING A CONNECTED FUTURE

How can we create a more connected future together? This question is key to the 2020 Central Eastern ITS Congress, aiming to unify the global ITS community under the Congress' main theme *"Sharing innovation - creating a connected future"*

The 1st Central Eastern Congress on Intelligent Transport Systems (ITS) taking place in Kazan, from 21-24 September 2020 is a new event aiming at the development and deployment of smart mobility solutions in Russia, CIS countries, the Middle East, Europe and Asia. The event will provide a global platform to showcase ITS solutions that ensure safe, efficient, environmentally friendly and affordable mobility.

The 2020 ITS Central Eastern Congress is the first ever ITS event focused on cooperation with Russia, CIS-countries and Central Eastern Europe. This Congress offers a unique opportunity to discover this emerging market, open to innovation and international expertise.

The location of this special event has been carefully selected, Tatarstan is known as Russia's leading region with Kazan as its centre from which to spread cutting-edge technologies and world knowledge across the whole country.



WELCOME TO THE FIRST ITS CENTRAL EASTERN CONGRESS

On behalf of ERTICO - ITS Europe and our 120 Partners and the Republic of Tatarstan, we would like to invite you to the first ever ITS Congress focused on cooperation with Russia and CIS-countries. This ground-breaking event takes place in Kazan, Tatarstan on 21-24 September 2020.

We cannot think of a better venue to host the very first ITS Central Eastern Congress than Kazan, the capital of the Republic of Tatarstan, Russia's leading region and hub for innovation. Kazan is one of the largest industrial and financial centres of the country and a pioneer in advancing and deploying mobility services. Kazan's forward-thinking economy is embodied by the ground-breaking IT Park, the biggest in Russia, and the largest technical park in Europe.

This event follows years of cooperation between ERTICO and Tatarstan's Ministry of Information and Communication and its national industries. Already in 2018, a delegation of ERTICO Partners had the opportunity to meet local authorities and discover the fast-paced development of intelligent transport solutions in the country. The Russian Federation has achieved a great deal in terms of safety

and congestion reduction, by introducing new technologies such as sensors, road safety cameras and modernising existing ones. Connected cars and V2X technologies are key issues in current plans to improve road safety and there is an increasing interest in connectivity and automation.

This Congress is an exceptional opportunity to discover this important market, its innovation and international expertise. We look forward to meeting many of you there in September 2020 to share ideas at this extraordinary event that benefits the entire mobility community.

Jacob Bangsgaard
CEO
ERTICO - ITS Europe



Rifkat Minnikhanov
Director
Road Safety State
Company (RSSC)

WHAT TO EXPECT



1500
Participants



150
Exhibitors



5000 sqm
exhibition floor



45
Sessions



100+ journalists
from trade &
news media

TOPICS



MaaS – Mobility as a Service

Population growth and high levels of social activity have focused the attention of business, government and the scientific & engineering community on finding solutions for more efficient transport in the urban and peri-urban environment. These pressures have catalysed the development of the MaaS concept and its early realisation in several regions, seen as a key element of future transport in cities.

MaaS will potentially lead to the developing of new business models in the transport sector. But to achieve all of its advantages, such as improving transport planning and management, increasing the capacity of public passenger transport, and reducing environmental impact MaaS needs to be simple, personal, and deliver extra value.

There are still many questions to be answered. When data is openly available, innovation and creativity follow, but how should we regulate such an environment in fair and secure ways? How do we develop an open ecosystem for stakeholder parties? What models will ensure everyone enjoys the benefits? How might we organize efficient collaboration between the public and private sectors?



Connectivity

Mobile networks and technologies are at the heart of many ITS solutions, which can transform the efficiency, comfort, safety and environmental impact of transport. Connectivity is evolving rapidly and technologies such as full-fibre broadband, 5G and satellite communications are enabling the extension of ITS into more and more aspects of the real world and supporting the development of a wide range of new solutions.

Digital connectivity allows both users and traffic managers to obtain and share information more efficiently and also create a valuable source of information on traffic flow in cities leading to improved traffic management and better responses to emergency situations. Future solutions offer an opportunity for much quicker connectivity between a wide range of devices and more efficient deployment on both sides with benefits for cost and energy consumption savings.

Innovations in next-generation connectivity are helping to connect the digital and real worlds. We invite you to share your experience of connectivity technologies and solutions and the developments that are changing the way we live today.



Connected and automated mobility

Developments in the Internet of Things, and technology more generally, are supporting the introduction of higher levels of automation and connectivity that have the potential to transform transport with impacts on vehicles, infrastructure, services for users, mobility needs management and spatial planning. In the longer term we look for substantial benefits for safety, traffic flow and emissions. Major steps towards implementation are happening now but, while connected and automated mobility solutions are advancing rapidly, the growth of the overall market may be slowed down because some associated technologies are still in the early development phase.

Many questions still remain regarding the path to highly automated vehicles (cybersecurity detection and counter measure certification, AI assessment and type approval process, block chain application for mobility businesses, etc. Is it clear what deployment business models are likely – public, private or mixed initiative? How to balance internalities and externalities, positive or negative, on both public private mobility systems?

How can we ensure continuity and interoperability of the infrastructure needed to support automated transport? What will be the human role in a connected and automated world?



ITS skills for the future

Smart Mobility solutions are changing the way transport systems operate, the ways in which they need to be controlled, and users' behaviour and expectations. The new market of intelligent transport systems cannot be managed by using yesterday's strategies and tools. Wireless communications, intelligent transport applications, predictive rather than reactive systems, and extensive digitalisation are driving demand for a new generation of ITS professionals to work with and implement these technologies in the most efficient way.

How can we mobilise universities, government and commercial companies to work together to devise plans to deliver the skills for the next generation of ITS students and professionals while also implementing a continuous learning programme for today's cohort? Are we clear how best to develop a skilled workforce with the right talent for the new types of start-ups, the new business models, and new mobility planners when the whole world is depending on the same specialisms? Is this issue something to be addressed nationally or across Europe as a whole?

KEYWORDS

- Adverse weather solutions
- Behaviour, Human-Machine Interface & User acceptance
- Cyber security & Blockchain
- Data & privacy
- Deep and self-learning algorithm validation
- Digital infrastructure & IoT
- Efficiency and resilience
- Emergency & Incident management
- Impact, Cost-benefit and Risk Assessment
- Information, ticketing & payment
- Implementation & Best practices
- Interoperability / Standards
- Mapping and geolocation
- Public-private partnerships
- Pilots, trials and tests
- Platforms
- Platooning
- Safety
- Strategies and policies
- Simulation & modelling
- System engineering and architecture
- Next generation of advanced driver assistance systems
- Driver monitoring systems

CALL FOR CONTRIBUTIONS

ITS experts are invited to submit their contributions to be considered for presentation and publication at the 1st ITS Central Eastern Congress.

To reflect the overall Congress theme “*Sharing innovation – creating a connected future*” authors of Papers and organisers of Sessions will be asked during the on-line submission process to explain how their paper or session contributes to the above.

Call for papers

Technical Papers may address the institutional, business, societal and economic aspects of ITS as well as technical subjects.

Scientific Papers should concentrate on research and scholarship as they will be independently refereed in accordance with academic journal standards.

General guidelines:

- A draft submission is required for all types of paper but the reviewers will need enough content to be able to judge your paper appropriately.
- For Scientific Papers we require a minimum of 9 pages and a maximum of 12 pages.
- For Technical Papers we require a minimum of 5 pages and a maximum of 10 pages.
- Papers which are submitted as Scientific Papers, but which are not judged to be of this top rating standard or relevance, may still be accepted as Technical Papers.

- Technical and Scientific papers will be put to a review and authors will be notified of the status. For accepted papers there will be no requirement to make a further submission unless the authors wish to update their paper, add diagrams or tables of results etc. If requested, authors may need to revise their paper addressing the reservations of the reviewers while submitting in final version of the paper.
- All proposals must be original and report on recent significant and substantive achievements.
- Topics may address any mode of transport.
- The official Congress language is English. Papers not submitted in English will automatically be rejected.
- Contributions can only be submitted through the online submission system on the Congress website.
- Paper submissions that are an abstract only or do not meet the minimum requirements will be rejected without review.

Call for sessions proposals

A limited number of Session proposals will be included in the programme, and due to the increased competition for slots, to ensure as a wide a range of session topics, and to give an equal opportunity to all potential session submitters, the following criteria will apply:

- Proposals will not be considered unless the complete contact details of the organiser, moderator and at least 3 confirmed speakers are identified.

KEY DATES

20 May 2020 : Submission deadline for all type of Papers and Sessions proposals

22 June 2020 : Notification of status to paper authors and Session proposals

30 July 2020 : Deadline to submit final version of the full paper and register for the Congress

WEEK OVERVIEW

	Monday 21	Tuesday 22	Wednesday 23	Thursday 24
MORNING	Conference (Russian sessions) & Demonstrations	High Level Roundtable Conference & Exhibition	Conference & Exhibition	Technical visits and Associated events
AFTERNOON	Conference (Russian sessions) & Demonstrations Opening Ceremony	Conference & Exhibition	Conference & Exhibition Closing Ceremony	Post Congress tours
EVENING	Welcome Reception in the Exhibition area	Networking events	ITS Dinner	

- By submitting a session proposal, you or the identified organizer are committing to organize the session content and participants (if accepted).
- If a majority of speakers named in the preliminary program are not registered and fees paid by the speaker registration deadline, the session will be removed, and the slot given to a candidate from the reserve list.
- Session proposals that address a single project will be given low priority compared to those that tackle a broad area.
- All session proposals must be submitted through the online submission system on the Congress website. E-mail contributions cannot be accepted.
- During the submission process you will be asked the following information: Organiser's contact details, Topic and Keywords, Session title and session description (long version for the review and short version for the programme), Name and contact details of the moderator and of minimum 3 confirmed speakers, Description of the speakers' individual contributions, Description of the planned session format (e.g. debate, keynote, interaction etc.) and scope.

WHAT WILL I LEARN ABOUT AT THE CONGRESS

How can you contribute to a safer, smarter and cleaner, seamless, green mobility?

The 2020 ITS Central Eastern Congress invites all sectors to contribute to the ongoing development of smart mobility solutions.

The Congress will host various sessions with top mobility experts speaking about key topics in the transport industry today.

The event presents a strategic opportunity for all mobility stakeholders to come together, share knowledge, exchange best practices and make the necessary contacts to develop businesses.

High-level debates

Invited high-level international industry executives, public officials and academics from around the world will draw from their experiences to share their views on ITS achievements, opportunities and challenges.

Proposed sessions

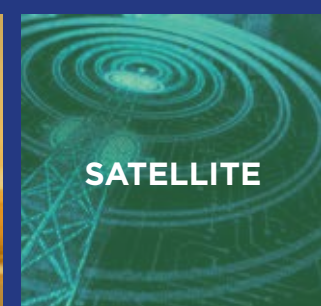
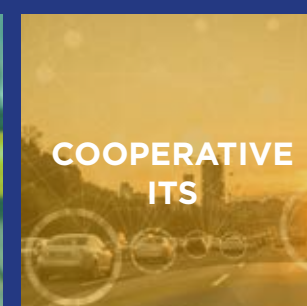
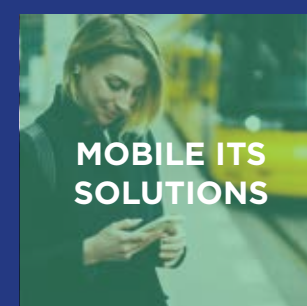
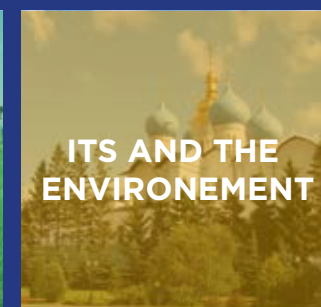
Organized at the request of groups of international experts developing and deploying ITS, these sessions provide the opportunity to focus on specific topics of interest.

Technical / Scientific sessions

These sessions are composed of presentations by international experts and will include topics encompassing all technical, scientific, economic, organisational and societal aspects of ITS.

Business presentations

Business presentations describe a service aimed at generating or improving a specific product, device or idea for the market.



HOW TO BE PART OF THE ITS EUROPEAN CONGRESS?

Meet top mobility experts to discuss key business topics in the numerous sessions of the Congress programme. Visit the comprehensive exhibition, attend innovative demonstrations and a wide range of technical visits and enjoy plenty of networking opportunities.

EXHIBITION & COMMERCIAL PARTNERSHIP

The Congress gives you exceptional access to the entire ITS community. Attracting everyone from the most established and recognisable companies to new players and industry influencers.

By exhibiting, you position yourself among the latest ITS solutions and most advanced technologies that delegates look for, putting you in the marketplace for the future of mobility.

Most of the commercial partnership options are in a classic package. However, we provide flexibility to best fit your strategic needs and marketing budget.

DEMONSTRATIONS

The purpose of the ITS Congresses is to push the boundaries of modern mobility.

Demonstrations offer delegates and visitors an exciting experience and the opportunity to learn about groundbreaking ventures and current and future mobility possibilities.

Demonstrators will have a unique opportunity to bring governmental, public and media attention to their brands and products with this ephemere test bench for smart mobility solutions.

PROGRAMME

The Congress Programme offers delegates an unparalleled opportunity to learn about the latest ITS technologies and new mobility concepts.

Experts from the mobility sectors (and beyond!) are invited to submit contributions for various type of sessions to share innovative ideas and lessons learnt, discuss mobility challenges that cities are facing today and how they can be addressed through ITS solutions.

Join the discussion on policy issues, research findings and industry best practice around the Congress main theme and related topics.

RUSSIA AND ITS

Innopolis, is a brand new city in the Republic of Tatarstan, it is the **IT capital of Russia** where the economy is based on **high-tech industries**. It is home to Innopolis University – Russian, English-spoken IT University with international teaching staff with business backgrounds.

ITIS : Intelligent Transport Information System designed to reduce the **freight transport** maintenance costs

SMARTS project aims at creating a **telecom infrastructure** for 150,000 kilometres of road. Creation of a powerful telecommunication infrastructure for implementing the fibre-optic lines with the highest level of reliability as the base of innovative technologies development and building of the digital economy of Russia

Automated fare collection system (contactless payment in public transport by bank card with paypass or smartphone with payment function or special transport card)

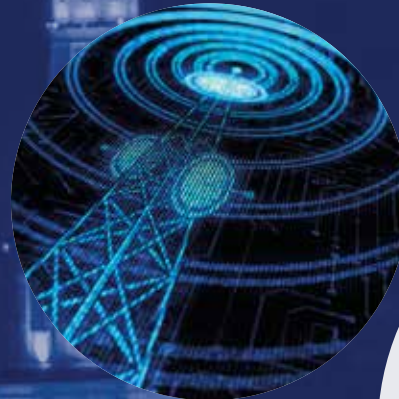
18 **digital services** of the transport complex by 2021

5G driverless buses

95% of legal acts to be created for **digitalization** of the transport industry

50% of **electronic tickets** for multimodal interregional transportation by 2024





GLONASS

(GLObal Navigation Satellite System) – Russian space-based **satellite navigation system** operating as part of a radio-navigation satellite service. It provides an alternative to GPS and is the second navigational system in operation with global coverage and of comparable precision.

12 billion RUB (162 million Euro) for **regional infrastructure construction projects**

Platon – Platon Electronic Toll Collection (ETC) system, introduced to facilitate and process the collection of **toll charges** offsetting the damage caused to Russian Federal Highways by vehicles exceeding 12 tons of gross vehicle weight (HGV N3 sub-category).

First **driverless tram** in the world

“Safe and high quality roads” – National project deployed within 2018-2024 including 4 federal projects:
1. Road network
2. General development of roads
3. Road traffic safety
4. Highways of Ministry of Defence

Zero road deaths by 2030

Set-up of a **single digital space** in the Eurasian Economic Union for the transport complex by 2024

1,5 million km of **roads**

Caravan project : the Russian Federal Road Agency (Rosavtodor) plans to refit more than 20,000 km of the federal highways for transit of **unmanned automated vehicles (UAVs)**



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