

2026 GANGNEUNG ITS WORLD CONGRESS

PROGRAM BOOK

OCT 19(MON) - 23(FRI)

GANGNEUNG OLYMPIC PARK AREA
REPUBLIC OF KOREA





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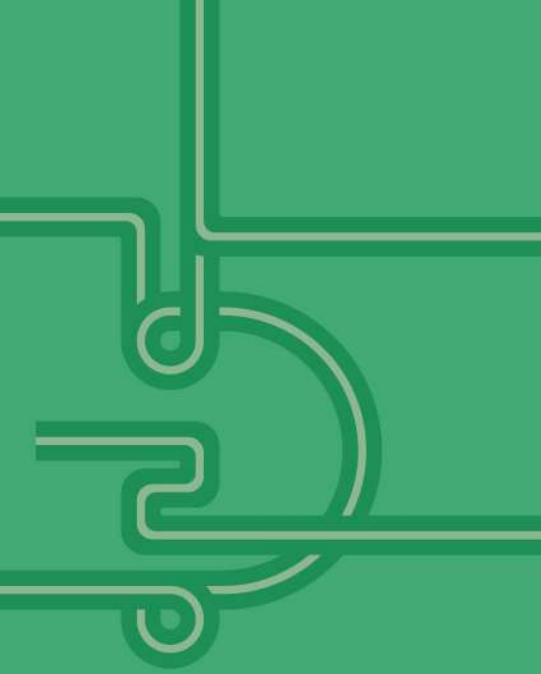
Qualcomm technologies is creating the next generation of V2X products with a unified global solution.



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Welcome Letters



Welcome Letters

Honorable Chairman of 2026 Gangneung ITS World Congress
Minister of Land, Infrastructure and Transport

Hong Jee-sun



Welcome to the ITS World Congress 2026, hosted by the beautiful city of Gangneung, Korea. The 32nd edition of the ITS World Congress will be held under the theme of “Beyond Mobility, Connected World”.

ITS is the integration of transport modes and infrastructure with ICT, resulting in improved safety and efficiency. Recent technological advances in autonomous driving, AI, and edge computing have further contributed to reducing traffic-related accidents and congestion.

Korea has been expanding infrastructure for autonomous driving, UAM, and AI-based cities, placing the utmost priority on creating a safe and convenient transport environment. Now we are poised to take a leap to the next level of mobility innovation, sharing our experience with the international community.

Building on Korea’s accumulated experience from hosting the 1998 and 2010 World Congresses in Seoul and Busan, as well as the 2025 Suwon Asia-Pacific Forum, we are working to deliver the most remarkable ITS World Congress to date. Gangneung ITS World Congress will serve as a platform to spread the momentum of cooperation and innovation witnessed at Suwon to the world, and present a vision for a sustainable future of transport.

We invite you to be part of the “Transport Olympics” in 2026, hosted in the city of Gangneung, which carries the legacy of the Pyeongchang Winter Olympics.

Let us build the connected future led by ITS together in Gangneung.

Thank you.

Welcome Letters

Honorable Chairman of 2026 Gangneung ITS World Congress
Mayor of Gangneung City

Kim Jung-nam



The journey toward a Connected World through Intelligent Transport Systems (ITS)
—a transformative new era—begins in Gangneung.

We are delighted to invite you to the “2026 Gangneung ITS World Congress,” held in the beautiful city of Gangneung, where the blue East Sea, a millennium of cultural heritage, and a cutting-edge future powered by ITS come together in harmony.

Today, the world is entering a new era of mobility transformation driven by artificial intelligence (AI) and advanced information and communication technologies (ICTs), seamlessly connecting land, sea, and air.

The “2026 Gangneung ITS World Congress” will serve as an excellent venue to experience firsthand the latest technological innovations shaping the future of transportation.

By implementing a Living Lab on roads used daily by our citizens, Gangneung will confidently present to the world a “new standard for sustainable small and medium-sized smart cities,” demonstrating that even such cities can solve traffic challenges and coexist with nature through advanced ITS technology.

The ultimate goal of the future mobility envisioned by Gangneung is “people.” Through inclusive ITS infrastructure such as autonomous buses and smart pedestrian systems, we will ensure mobility and further realize a “life without exclusion,” where not a single person is left out of the benefits of technology, presenting a vision of a warm future smart city where everyone can become connected to the world as one.

In October 2026, in the beautiful city of Gangneung, where tradition and cutting-edge technology harmoniously blend, we look forward to your joyful participation as we take a bold step toward “Beyond Mobility, Connected World.”

Thank you.

Welcome Letters

Chairman of 2026 Gangneung ITS World Congress Organizing Committee
CEO of Korea Expressway Corporation

Yu Jeong Whon



Advances in Artificial Intelligence and data technologies are transforming transportation and reshaping the future of mobility. Travel is becoming safer, more convenient, and increasingly connected, while ITS are evolving into an integrated platform that enables sustainable and innovative mobility solutions.

At the same time, global challenges such as climate change, safety, and digital transformation require greater international cooperation. Countries around the world must share knowledge, exchange experiences, and work together to build a sustainable mobility future.

Under the theme “Beyond Mobility, Connected World,” the 2026 Gangneung ITS World Congress will bring together ITS experts, policymakers, industry leaders, and academics from around the world. The Congress will provide a global platform to share innovative technologies, discuss the future of mobility, and explore solutions for sustainable transportation.

We hope this Congress will inspire new ideas, strengthen global collaboration, and help shape the future of transportation beyond national boundaries.

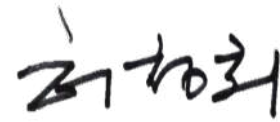
We look forward to welcoming you to Gangneung, a city renowned for its beautiful natural landscapes and rich cultural heritage.

Thank you.

Welcome Letters

Board of Director of ITS World Congress
Chairman, Intelligent Transport Society of Korea (ITS Korea)

Heo Cheong-hoe



Connecting Korea's ITS Innovation with the World

Greetings.
I am Heo Cheong-hoe, Chairman of the Intelligent Transport Society of Korea (ITS Korea).

On behalf of ITS Korea, I extend a warm welcome to all ITS professionals from Korea and around the world joining us for the 2026 Gangneung ITS World Congress.

Today, ITS is advancing rapidly as it converges with cutting-edge technologies such as artificial intelligence, big data, and autonomous driving. Its impact goes well beyond making transport safer and more efficient. By linking people, vehicles, roads, and cities into a single, integrated transport system, ITS is opening new possibilities for the future of mobility. This World Congress is a place to share technologies and experiences from across the globe, and to explore the future direction of transport and mobility together.

Holding the Congress in Gangneung carries special meaning. Advanced transport services should not be the privilege of large cities alone. Everyone, regardless of the size of the city they live in, deserves safe and convenient mobility. Gangneung is a living lab that exactly demonstrates this. I invite you to experience Korea's ITS technologies and services first-hand, and to discover new transport service models designed for small and mid-sized cities.

I hope this gathering will spark new cooperation and business opportunities among governments, institutions, companies, and experts from Korea and abroad. ITS Korea will also seize this Congress as a springboard for the next leap forward of Korea's ITS industry. We will promote technological innovation and cross-industry convergence, and expand exchanges between domestic and international companies and institutions to create new opportunities.

In Gangneung, let us share technologies and experiences, and together pave the way toward the future of mobility for all. I kindly ask for your continued interest and active participation. I look forward to welcoming you in Gangneung.

Thank you.

Welcome Letters

Chairman of 2026 Gangneung ITS World Congress International Program Committee
Professor of Kongju National University

Lee Seon Ha



The ITS World Congress in Gangneung serves as a global platform where researchers, practitioners, policymakers, and innovators come together to explore how intelligence and connectivity are transforming transportation and urban environment. Under the theme “Beyond Mobility, Connected World,” we aim to go beyond smart transportation to shape a hyper-connected society where all modes of mobility, data, infrastructure, and people are seamlessly integrated.

As IPC Chair, I am committed to designing a rigorous, inclusive, and forward-looking academic and technical program. Through peer-reviewed papers, special interest sessions, invited lectures, tutorials, workshops, and on-site demonstrations, we seek to turn ideas into real-world solutions. Our program will focus on key pillars of safety, sustainability, interoperability, AI, data-driven operations, automation, digital infrastructure, and user-centered design.

We warmly await your paper and session proposals. This is your opportunity to share regional pilot and commercialization projects, and to discuss methodologies, standards, and business models. With broader engagement from startups, students, and emerging researchers, the Congress aims to truly embrace the diversity of disciplines and regions.

As a coastal and cultural city enriched by its Olympic legacy, Gangneung offers the ideal stage for demonstrations, discussions, collaboration among industry-academia-research-government. With your enthusiastic participation, we look forward to expanding the value of ‘connection’ and envisioning a new urban and societal landscape that goes beyond mobility.

Thank you.

Welcome Letters

ITS Asia-Pacific Secretary General

Akio Yamamoto



The Gangneung ITS World Congress represents a positive challenge for ITS Asia Pacific. While Gangneung is equipped with advanced ITS functions, the city also offers many attractions that will appeal to visitors.

With a population of about 210,000, Gangneung demonstrates that the world-class events are not the privilege of the megacities. This sets an important precedent, encouraging cities of all sizes to host the ITS World Congress.

Being well-known as a resort destination, Gangneung was also a co-host city of the 2018 PyeongChang Winter Olympics. Please bring your findings, experiences, and insights to the legacy venues and see how the city is working to enhance the mobility robustness with ITS technologies as the leading tourist destination.

And finally—don’t miss the famous “BTS Bus Stop,” a must-see for ARMY!

I look forward to welcoming everyone in Gangneung.

Welcome Letters

ERTICO - ITS Europe Chief Executive Officer

Joost Vantomme



On behalf of ERTICO - ITS Europe and our network of Partners, it is my pleasure to welcome you to the 32nd ITS World Congress in Gangneung.

ERTICO - ITS Europe is a proud co-organiser, with ITS Asia-Pacific and ITS America, of an event which brings together the wider transport and mobility community to assess the state of Intelligent Transport Systems and shape their future. This is where partnerships are established, standards are influenced, and innovation is accelerated.

The 2026 ITS World Congress will highlight automated driving and electric vehicles, smart infrastructure, mobility services, AI-driven & data-centric systems, policy and governance. These topics are at the heart of the ERTICO Partnership, making us a committed collaborator of this leading event for the ITS community, where technology, economics, social and environmental factors, and policy converge.

I very much hope that you will be among the thousands to join us from around the globe. Your knowledge, ideas and experiences will enrich the Congress as we witness how ITS is truly revolutionizing mobility and creating a more connected world.

Welcome Letters

Intelligent Transportation Society of America
President and CEO

Laura D. Chace



On behalf of ITS America and with our partners ITS Asia-Pacific and ERTICO-ITS Europe, I am excited to welcome you to ITS World Congress 2026 in Gangneung, South Korea.

ITS World Congress stands as the premier industry event to convene transportation technology leaders from across the globe for engaging conversations, technology demonstrations, and partnerships that propel our industry forward. This is a time for dynamic information exchange to foster productive collaboration between public, private, and academic stakeholders to drive innovation.

ITS America is proud to be a regional partner in this impactful global effort that over the past three decades has advanced systems that integrate technology to deliver safe, smart, connected transportation and continues to be at the cutting edge of emerging technology.

This Congress promises to be an engaging forum for the most timely ITS topics, including digital infrastructure, artificial intelligence, connected and autonomous vehicles, and transportation policy that balances safety and innovation. I look forward to seeing everyone in the city of Gangneung to celebrate the theme "Beyond Mobility, Connected World".

Sponsors

We are pleased to introduce the sponsors of the 2026 Gangneung ITS World Congress.
We sincerely thank all our sponsors for their generous support and valuable contributions to making this event a success.

Diamond



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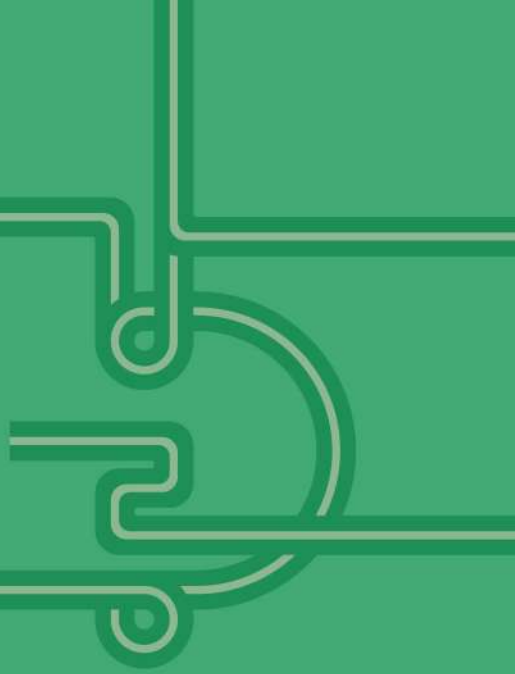


ITS International



Traffic Technology International

Congress Overview



2026 GANGNEUNG
ITS WORLD CONGRESS

Program at a Glance

Time	October 19(Mon)	October 20(Tue)	October 21(Wed)	October 22(Thu)	October 23(Fri)
09:00-10:00		Plenary Session 1	Plenary Session 2	Plenary Session 3	Sessions
10:00-11:00	Opening Ceremony				
11:00-12:00	Exhibition Opening Ceremony	Sessions	Sessions	Sessions	Sessions
12:00-13:00					
13:00-14:00	Ministerial Luncheon	Lunch	Lunch	Lunch	Lunch
14:00-15:00	Sessions	Sessions	Sessions	Sessions	Closing Ceremony
15:00-16:00	Ministerial Roundtable				
16:00-17:00	Sessions	Sessions	Sessions	Sessions	
17:00-18:00	Welcome Reception				
18:00-19:00		VIP Dinner	Gala Dinner		K-Music Concert
19:00-20:00	Drone Light Show (20:00)			Ice Show	

Congress Theme

Beyond Mobility, Connected World

Today, transportation is more than just getting from A to B—it is a living network that connects people, cities, and the world. We must strive to create a sustainable mobility system that is safe, accessible to all, and aligned with environmental and social values. “Beyond Mobility, Connected World” envisions a transport ecosystem shaped by artificial intelligence and hyper-connectivity technologies. This represents a new vision of Intelligent Transport Systems (ITS), in which advanced technologies such as autonomous vehicles, connected cars, and AI-based traffic management centers interact in real time to foster an even safer, more sustainable, and inclusive future.

Gangneung, the host city for the 2026 ITS World Congress, is a distinctive international tourist destination that captivates visitors with its unique charm. At the same time, it is a mid-sized city that faces particular mobility challenges, including an aging population, people with limited mobility, sharp seasonal surges in tourist demand, and constrained infrastructure. Gangneung is uniquely poised as a global testbed for connectivity-driven ITS innovations that address these challenges. The insights and solutions developed here will provide fresh approaches and valuable foresight, benefiting not only Gangneung and similar mid-sized cities, but also offering a vital roadmap for the complex mobility issues faced by major metropolitan areas worldwide.



Sustainability

This concept targets sustainable growth across mobility, urban and regional development, as well as economic and environmental spheres. Leveraging eco-friendly autonomous electric vehicles and AI-powered energy management, it aims to achieve carbon neutrality and cultivate sustainable urban environments for generations to come. Such measures enhance overall resource efficiency across the transport system. They also contribute to addressing the climate crisis through long-term environmental stewardship.



Safety

This concept places the highest priority on the life and safety of all transportation participants. V2X communication empowers autonomous and connected vehicles to detect and prevent real-time risks, thereby establishing a robust, blind spot-free 360-degree safety network. Meanwhile, AI-powered traffic management centers further enhance predictive safety measures to prevent accidents. Furthermore, smart crosswalks and AI-enabled pedestrian recognition systems safeguard vulnerable road users, directly propelling the realization of Vision Zero.



Inclusivity

This concept advances mobility to be inclusive and accessible to all. Wheelchair-accessible autonomous vehicles, AI guidance systems for people with visual or hearing impairments, and senior-friendly interfaces embody the principle of “Leave No One Behind.” Access channels that do not require smartphones, together with universal design infrastructure, promote technological democracy and social equity, enabling equitable access and benefits across all communities within the mobility ecosystem.



Interoperability

This concept represents the seamless integration of various mobility resources, including urban infrastructure, autonomous driving, shared vehicles, and multimodal hubs. The Traffic Management Center (TMC) links autonomous shuttles, public transit, and shared mobility through a MaaS platform to provide seamless mobility. AI-based real-time demand prediction, dynamic signal control, and smart parking management optimize city-wide traffic flow and maximize mobility efficiency. In a C-ITS environment, the entire city functions as a single intelligent urban network, enabling optimal resource use and fostering collaborative mobility solutions.

Congress Format

Opening Ceremony

The Opening Ceremony marks the official start of the Gangneung ITS World Congress, bringing together distinguished guests and ITS leaders from around the world. Featuring an opening performance, welcome and congratulatory remarks, Keynote Speeches, and the ITS Hall of Fame Awards, the ceremony celebrates international collaboration and a shared vision for the future of mobility.

Session Program

Plenary Session (PL)	Plenary Sessions bring together global ITS leaders to share insights, discuss key industry challenges, and explore future visions for intelligent transportation systems. Open to all Congress participants, these large-scale sessions provide a platform for high-level dialogue and global collaboration.
Executive Session (ES)	Executive Sessions bring together leading ITS experts and decision-makers to discuss key global issues and share insights on the future direction and vision of mobility.
Special Interest Sessions (SIS)	These sessions delve deeply into specific ITS topics, offering fresh perspectives and insights for developing and deploying ITS solutions.
Scientific Paper Sessions (SP)	These sessions provide a major forum for academic and scientific excellence, showcasing substantial findings and fostering intensive discussion in advanced ITS topics.
Technical Paper Sessions (TP)	These sessions offer engineers and researchers a venue for broad-ranging discussions on technical subjects, as well as institutional, business, and economic aspects of ITS.
Scientific & Technical Paper Sessions (STP)	These sessions bring together academic excellence and practical expertise, providing a forum for researchers and professionals to share significant findings and discuss a broad range of scientific, technical, institutional, business, and economic aspects of ITS.
Interactive Poster Sessions (IS)	These sessions provide space for interactive discussion through poster presentations or a combination of short oral presentations followed by poster presentations.

Congress Format

Social Program

Welcome Reception	This event welcomes domestic and international participants, providing a comfortable setting to begin exchanging ideas and networking. Featuring performances and welcoming remarks, it offers a prime opportunity for natural communication and collaboration among attendees.
VIP Dinner	This event brings together key figures from around the world and strengthens mutual trust and cooperation through a formal dinner and conversations. This occasion serves to solidify international partnerships in a relaxed atmosphere.
Gala Dinner	This is a commemorative dinner attended by key figures and participants, celebrating the success of the Congress through congratulatory performances, welcome remarks, and opportunities for interaction, while sharing the values of solidarity and cooperation among participants.

Exhibition

Exhibition	The exhibition showcases ITS technologies and mobility solutions from companies and organizations around the world. It offers insights into how these technologies are applied in practice to create safer, smarter, and more sustainable transportation systems. Visitors can explore the latest technologies and gain a broader understanding of trends in the ITS industry.
Business Matching	Business Matching connects companies and organizations in the ITS sector through one-on-one meetings based on shared interests and collaboration needs. Participants can exchange technical and business information, meet potential partners, and explore opportunities for international collaboration. Eligibility: Registrants of the 2026 Gangneung ITS World Congress
Conference Stage	Conference Stage is an open pitching program where exhibitors, ITS-related companies, and organizations showcase their technologies, products, and solutions. All exhibition visitors are welcome to attend the sessions and explore various applications of ITS technologies while exchanging ideas and information on the present and future of the ITS industry.

Congress Format

Technical Visit & Demonstrations

Technical Visit	Technical Visit offers participants an opportunity to visit key ITS facilities and transportation sites in and around Gangneung. Through on-site tours and briefings, participants can gain insights into the practical operation and application of Korea's ITS technologies and infrastructure.
Demonstrations	Technical Demonstration provides participants with an opportunity to experience advanced ITS technologies and mobility solutions in real-world environments. Through live demonstrations, participants can explore innovative technologies designed to enhance transportation safety, efficiency, and convenience.

Youth Program

This program consists of two parts, the Youth Fellowship and the ITS Idea Contest. Through this program, we aim to discover innovative ideas from young people who will shape the future of ITS and mobility, while exploring new directions and possibilities for the development of transportation.

Sponsor Session

Sponsored Sessions provide a platform for Congress sponsors to showcase the latest technologies and innovations while presenting future directions for the ITS industry and their vision for future mobility.

Affiliate Session

These sessions bring together Congress host and related organizations to share key policies, major achievements, and the latest developments in ITS. They provide a platform for institutional collaboration and knowledge exchange, exploring sustainable growth in the global ITS industry and a shared vision for future mobility.

Congress Format

Public Program

Drone Light Show	A large-scale performance showcasing a vision of the modern era, where advanced technologies such as drones seamlessly integrate into everyday life, combined with immersive 3D visuals.
Ice Show	Join us for a spectacular 60-minute performance featuring Korea's premier figure skating stars and performing artists. Experience an unforgettable showcase where graceful skating, cutting-edge technology, striking visuals, and captivating art meet. We look forward to celebrating the successful hosting of the ITS World Congress with you.
K-Music Concert	To mark the 2026 Gangneung ITS World Congress and celebrate its successful conclusion, we present the K-Music Concert. The concert features performances by five artist groups, each with its own unique charm. It will bring together local residents and participants from Korea and around the world through music and shared experience.

Closing Ceremony

The Closing Ceremony marks the conclusion of the Gangneung ITS World Congress, celebrating its achievements through a highlights video, closing remarks, and a report on the Congress outcomes. Awards and presentations of appreciation recognize outstanding contributions, while the introduction of future host cities and the ceremonial handover reaffirm the continuity of global ITS collaboration.

Congress Information

Registration Desk Information

On-site registration, registration confirmation, badge issuance, registration information updates, and payment of outstanding registration fees are available at the Registration Desk.

Session Participants	Badge Pickup Location: Registration Desk, 1F Lobby, Gangneung Convention Center Operating Schedule & Hours • Oct. 18 (Sun), 2026 08:00 - 18:00 • Oct. 19 (Mon) - 22 (Thu), 2026 07:30 - 18:00 • Oct. 23 (Fri), 2026 07:30 - 15:00
Exhibition Visitors	Badge Pickup Location: Registration Desk, 1F Lobby, Gangneung Oval Operating Schedule & Hours • Oct. 19 (Mon), 2026 08:30 - 17:30 • Oct. 20 (Tue) - 22 (Thu), 2026 08:30 - 17:00 • Oct. 23 (Fri), 2026 08:30 - 15:00

Lunch

Lunch is provided to eligible participants according to their registration category.

Venue	• Oct. 19 (Mon) – 22 (Thu): Convention Hall, Convention Center / Gangneung Oval(Exhibition) • Oct. 23 (Fri): Gangneung Oval(Exhibition)
Time	Oct. 19 (Mon) – 23 (Fri), 2026 12:30 – 14:00
Eligibility	All Paid Registrants
How to Enter	Please present the lunch voucher received at the Registration Desk at the designated lunch venue. ※ Lost lunch vouchers cannot be reissued.

Congress Information

Coffee Break

Coffee breaks are available for eligible participants during designated break times.

Location	• Gangneung Convention Center (Official & Social Programs & Session Program):1F Lobby / 3F Lobby • Gangneung Oval(Exhibition): Open Lounge / Business Lounge
Time	Oct. 19 (Mon) – 23 (Fri), 2026 10:30 – 11:30 / 15:00 – 16:00

Preview Room

Speakers are requested to visit the Speaker Preview Room before their scheduled session to check and submit presentation materials.

Location	Gangneung Convention Center 3rd Floor
Operating Hours	• Oct. 18 (Sun) 15:00-18:00 • Oct. 19 (Mon) - Oct. 22 (Thu) 08:00-18:00 • Oct. 23 (Fri) 08:00-13:00

Grant, Award & Expense Disbursement

For Speakers, Moderators & Session Organizers
Presentation material submission, review and updates, and session operations support.

Presentation & Session Support

Participants	Services Available
Travel Grant Recipients	Travel Grant Disbursement
Best Paper Award Recipients	Award Recipient Verification & Documentation
Youth Fellowship Participants	Activity Expense Disbursement
ITS Idea Contest Participants	Activity Expense Disbursement

Congress Information

Technical Visit

Meeting Point	Outdoor Plaza in front of the Gangneung Convention Center 1F Entrance
Departure Times	TV1 Oct. 20–23, 2026 (Tue–Fri)1st 09:00 / 2nd 14:30 TV2 Oct. 20–23, 2026 (Tue–Fri)1st 09:00 / 2nd 14:00 TV3 Oct. 20–22, 2026 (Tue–Thu)09:00 TV4 Oct. 23, 2026 (Fri)09:00

All Technical Visits depart promptly at the scheduled time.

Facilities & Services

If you need general information about the Congress or on-site assistance, please visit the Information Desk.

Transportation Information Desk	Main Services • Shuttle Bus Service Information Gangneung Convention Center (Official & Social Program, Session Program) • Location : 1F • Dates & Hours : Oct. 19(Mon) – 23(Fri), 2026 08:00-19:30 Gangneung Oval(Exhibition) • Location : Gate 3, 1F • Dates & Hours : Oct. 19(Mon) – 23(Fri), 2026 08:00-19:30
Medical Room	If you require medical assistance during the Congress, please visit the Medical Room or contact the nearest Congress staff member. Locations & Operating Hours • Gangneung Convention Center (Official & Social Program, Session Program) Location: Multipurpose Room 102 Dates & Hours: Oct. 19 (Mon)–23 (Fri), 2026 09:00–18:00 • Gangneung Oval(Exhibition): Location: Gate 3 (G16), 1F Dates & Hours: Oct. 19 (Mon)–23 (Fri), 2026 09:00–18:00

Congress Information

Prayer Room	A Prayer Room is available for participants during the Congress. Locations & Operating Hours • Gangneung Convention Center (Official & Social Program, Session Program): Location: Multipurpose Room 304 Dates & Hours: Oct. 18 (Sun) – 23 (Fri), 2026 09:00–18:00 • Gangneung Oval(Exhibition): Location: Gate 3 (G16), 1F Dates & Hours: Oct. 17 (Sat) – 23 (Fri), 2026 09:00–18:00
Wi-Fi & Internet	• Gangneung Convention Center (Official & Social Programs & Session Program) Wi-Fi Network: 2026_ITS_WC-WiFi Password: 20261019@ • Gangneung Oval (Exhibition) Wi-Fi Network: 2026ITS_[Location] ※ No password required.
Certificate of Attendance	A Certificate of Attendance will be available to eligible Congress participants. How to Obtain • Official Website My Page Available From From Monday, Oct. 19, 2026

Congress Information

Registration Key Benefits

Category	Delegate Speaker & Moderator Graduate		Undergraduate	Press	Exhibition Visitor	Exhibitor & Demonstrator
	Full Day	1 Day				
Type	Full Day	1 Day	-	-	-	-
Opening & Closing Ceremonies	○	○	○	○	○	○
Session Programs	○	○	○	○	×	×
Exhibition Access	○	○	○	○	○	○
Demonstrations	Walk-in	Walk-in	Walk-in	Walk-in	Walk-in	Walk-in
Technical Visit	upon application	upon application	×	×	×	×
Lunch	O (All Days)	Registration Day only	×	O (All Days)	×	2 per booth
Welcome Reception	○	○	×	○	×	○
Gala Dinner	upon application	upon application	×	×	upon application	upon application

Congress Information

Congress Map



Main Venue for the 2026 Gangneung ITS World Congress, Gangneung Olympic Park is a complex created based on the Olympic legacy as a major host site of the 2018 PyeongChang Winter Olympics. This place provides major event facilities such as meeting rooms and exhibition halls, as well as an open outdoor environment for participants' relaxation and exchange, and is equipped with a comprehensive infrastructure optimized for various programs of the congress. In addition, it is close to the train station and bus terminal, providing excellent transportation accessibility, and high proximity to major tourist attractions in Gangneung, such as Gyeongpodae and Gyeongpo Lake, further enhances the convenience of participation and stay satisfaction. Based on this excellent location, participants can enjoy a more relaxed and comfortable congress schedule during the event period.

Congress Information



01 Convention Center	
Oct 19	10:00-11:10 Opening Ceremony
Oct 21	18:00-20:00 Gala Dinner
Oct 22	10:00-17:00 Youth Fellowship
Oct 23	14:00-15:00 Closing Ceremony
Throughout the Congress	09:00-17:30 Sessions
02 Gangneung Oval	
Oct 19	11:30-12:30 Exhibition Opening Ceremony
	17:00-18:30 Welcome Reception
Throughout the Congress	1F Exhibition & Business Matching Conference Stage
03 Hockey Centre Parking Lot	
Throughout the Congress	Technical Demonstrations
04 Hockey Centre	
Oct 22	19:00-20:00 Ice Show
05 ITS Festival Ground	
Throughout the Congress	Cultural Experience Programs at Festival
06 Hockey Centre Auxiliary Rink	
Oct 19-21	K-Plug test
Oct 23	18:00-19:30 K-Music Concert
	In Front of the Hockey Centre Auxiliary Rink
07 Convention Center Welcome Plaza	
Oct 19	20:00-20:30 Drone Light Show

Floor Plan

Congress Venue



Gangneung Convention Center

Official & Social Program, Session Program

The Convention Center, scheduled for completion in 2026, features an innovative and flexible spatial design with a capacity of up to 2,200 people. With a total of 19 meeting rooms, it provides an efficient environment for various workshops and seminars. During the Gangneung World Congress, it will serve as the main venue for various events and session programs.



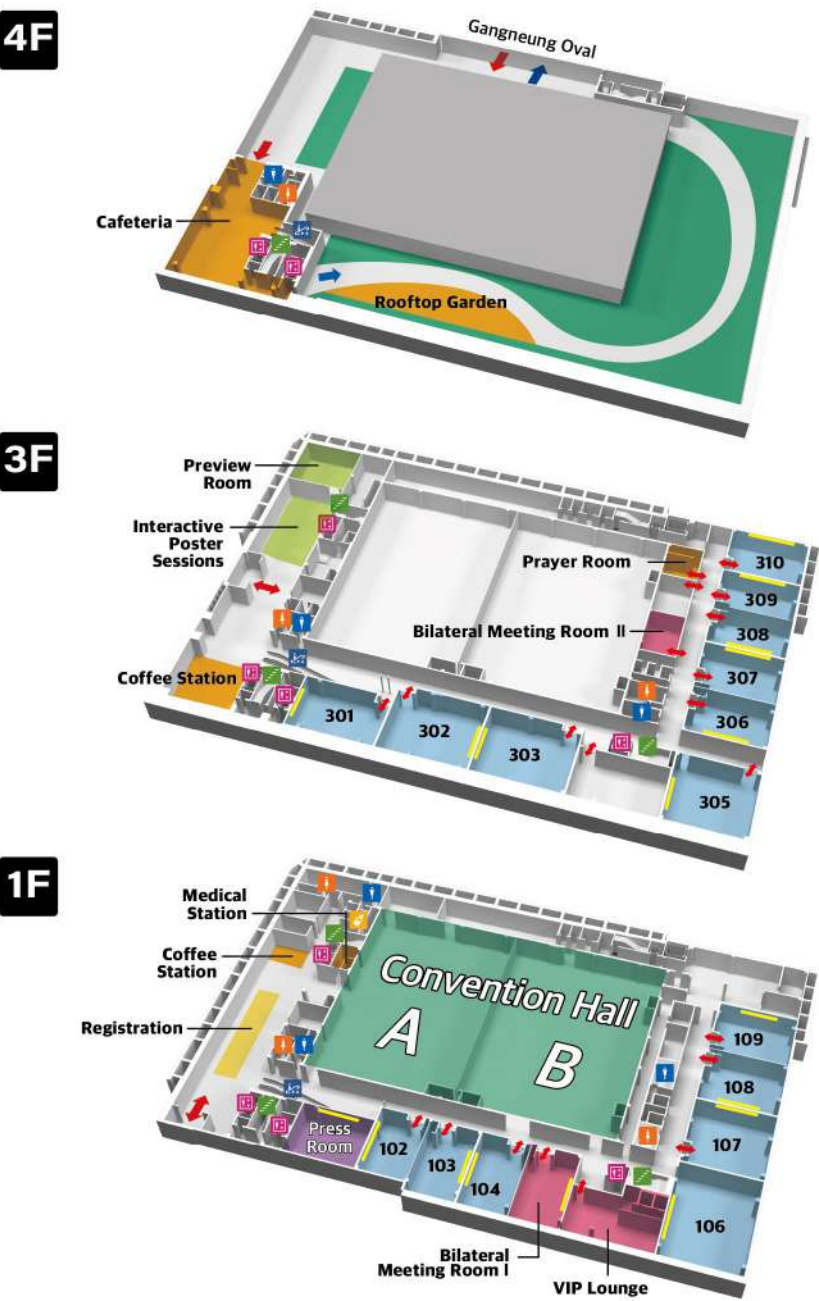
Gangneung Oval

Exhibition

Gangneung Oval is a symbolic venue that carries forward the historic legacy of the PyeongChang 2018 Winter Olympic Games. Featuring approximately 8,000 seats, expansive spectator stands, and an open indoor layout, the venue offers an impressive spatial scale. It is scheduled to be utilized as a modern exhibition hall, optimized for large-scale exhibitions, advanced ITS technology demonstrations, and a wide range of business networking programs.

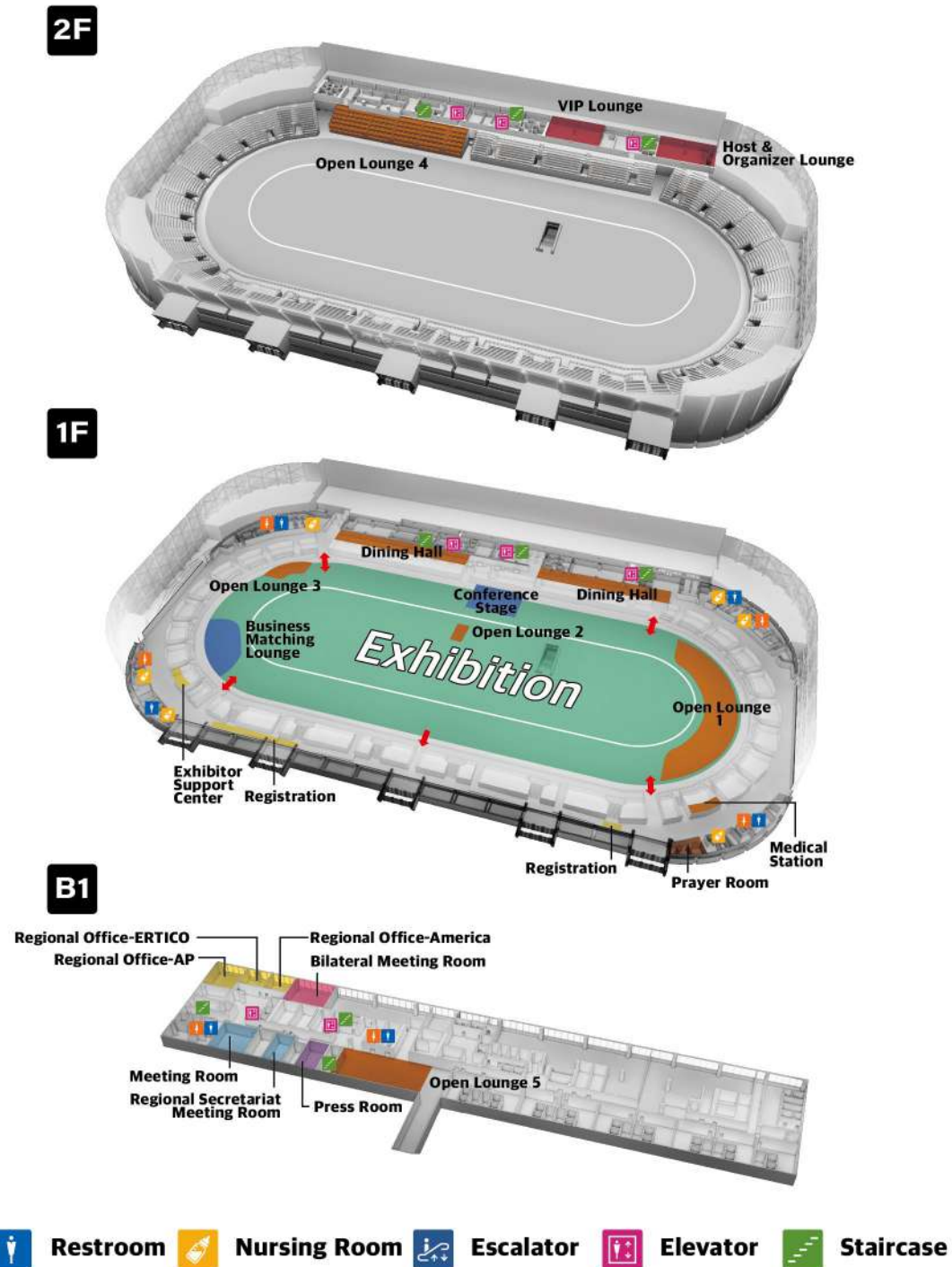
Floor Plan

Gangneung Convention Center



Floor Plan

Gangneung Oval



A Leader in **Korea's Construction** Industry

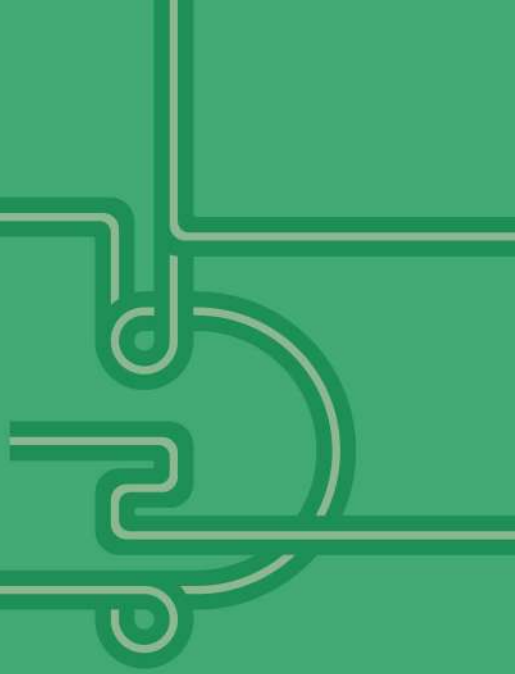
Since constructing Korea's first steel-frame building in 1968, HJ Shipbuilding & Construction has continuously made history with industry 'firsts' and 'bests', including the construction of ten airports, the largest number undertaken by any Korean construction company.

Building on this proud legacy, we are now embarking on a bold new journey toward becoming a global leader in the construction industry through relentless challenge and innovation.



Lead Contractor for Phases 1-4 of Incheon International Airport Construction

Congress Program



2026 GANGNEUNG
ITS WORLD CONGRESS

Official & Social Program



Monday, 19 October 2026, 10:00–11:10
1F, Convention Hall, Gangneung Convention Center

The Opening Ceremony marks the official start of the Gangneung ITS World Congress, bringing together distinguished guests and ITS leaders from around the world. Featuring an opening performance, welcome and congratulatory remarks, Keynote Speeches, and the ITS Hall of Fame Awards, the ceremony celebrates international collaboration and a shared vision for the future of mobility.



Friday, 23 October 2026, 14:00–15:00
1F, Convention Hall, Gangneung Convention Center

The Closing Ceremony marks the conclusion of the Gangneung ITS World Congress, celebrating its achievements through a highlights video, closing remarks, and a report on the Congress outcomes. Awards and presentations of appreciation recognize outstanding contributions, while the introduction of future host cities and the ceremonial handover reaffirm the continuity of global ITS collaboration.



Monday, 19 October 2026, 11:30–12:30
Outdoor Plaza in front of the Gangneung Oval
(Gangneung Speed Skating Oval)

The Opening Ceremony marks the first unveiling of the exhibition space of the 2026 ITS World Congress Gangneung. Through a ribbon-cutting ceremony and a guided tour of the exhibition hall, distinguished guests will experience cutting-edge transport technologies and innovative solutions firsthand, opening a platform for exchange and cooperation.

Official & Social Program



Monday, Oct 19th, 2026
Gangneung Oval

This event welcomes domestic and international participants, providing a comfortable setting to begin exchanging ideas and networking. Featuring performances and welcoming remarks, it offers a prime opportunity for natural communication and collaboration among attendees.



Tuesday, Oct 20th, 2026
Seongyojang House

This event brings together key figures from around the world and strengthens mutual trust and cooperation through a formal dinner and conversations. This occasion serves to solidify international partnerships in a relaxed atmosphere.



Wednesday, Oct 21st, 2026
1F, Convention Hall, Gangneung Convention Center

This is a commemorative dinner attended by key figures and participants, celebrating the success of the Congress through congratulatory performances, welcome remarks, and opportunities for interaction, while sharing the values of solidarity and cooperation among participants.

Ministerial Roundtable



Ministerial-level officials from governments and relevant organizations around the world gather in one place to discuss global ITS policy directions, share key national issues, and reaffirm their commitment to international cooperation and a shared vision for sustainable future transportation.

2F, BADA Hall, SEAMARQ Hotel

Program

Time	Program
14:30 - 14:35	Introduction of Delegations
14:35 - 14:37	Welcome Remarks
14:37 - 14:52	Keynote Speech
14:52 - 15:42	Country Statements and Discussion
15:42 - 15:50	Adoption of Key Messages
15:50 - 15:52	Closing
15:52 - 15:55	Group Photo



Connecting Roads, Creating Tomorrow

30 Years of Intelligent
Transportation Expertise



Highway ITS maintenance & operations

53%⁺
market share

Nationwide ETCS deployment share

25%⁺ **20%⁺**
for multi-lane for single-lane systems

C-ITS pilot projects & standard development

400km **333** **5,622**
coverage RSUs OBUs installed



ITS
Intelligent Transport
Systems

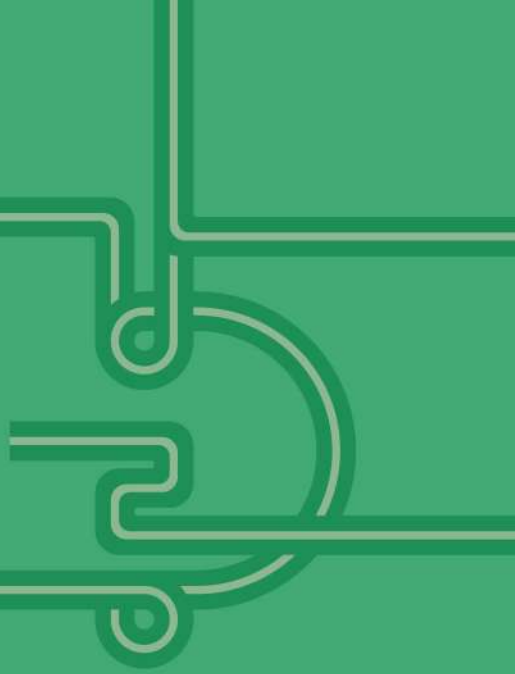


Tolling
Multi-Lane Electronic
Toll Collection (Hi-Pass)



C-ITS
Cooperative Intelligent
Transport Systems

Session Program



2026 GANGNEUNG
ITS WORLD CONGRESS

Session Schedule at a Glance

Lunch | October 19 (Mon) – 23 (Fri), 2026, 12:30 – 14:00

- October 19 (Mon) – 22 (Thu): Convention Hall (Convention Center) and Gangneung Oval
- October 23 (Fri): Gangneung Oval



Website

Convention Center (1F)

- PL Plenary Session
- ES Executive Session
- SIS Special Interest Sessions
- SP Scientific Paper Sessions
- TP Technical Paper Sessions
- STP Scientific & Technical Paper Sessions
- IS Interactive Poster Sessions

Date	Time	Convention Hall	Room 102	Room 103	Room 104
Oct. 19 Mon	10:00-11:10	Opening Ceremony Convention Hall (1F)			
	11:30-12:30		STP002 V2X Technology For Simulation & Mapping	TP002 Social Impact Using Automated Vehicle Services	TP003 Improving Autonomous Driving via Scenarios, Transfer Learning and Simulations
	14:00-15:00		TP008 GNSS, V2X, Digitalisation	TP009 ITS for Pedestrians & Bicycles	TP010 Advanced Traffic and Parking Management
	15:30-17:00		SP013 Advances in Mobility Modellings	TP018 Advanced Use of ADAS Systems to Improve Safety in an Advanced Mobility World	SIS003 Managing Road Traffic in Large-Scale Emergency Situations Using Real-Time Traffic Information (RTTI) Services
Oct. 20 Tue	09:00-10:30	PL 1 Beyond Mobility: AI-driven ITS toward a Safe and Sustainable Future Convention Hall (1F)			
	11:00-12:30		SIS013 5G Enabling "Beyond Mobility, Connected World"	SIS014 From Black Boxes to Glass Boxes: Why Trust Is the Missing Link in Transportation Safety	SIS100 Bridging Geospatial Standards and Intelligent Transport Systems: The Future of GDF, HD Maps, and Cross-Domain Interoperability
	14:00-15:30		SIS023 How Europe Moves From Pilots To Scale: Operating Models, Procurement Routes and PPPs For Shared Autonomous Transport Services	SIS024 Smart Infrastructure, Soft Power: How ITS Shapes Global Influence and Economic Competitiveness	SIS012 Accelerating C-V2X Deployment to Enhance Road Safety
	16:00-17:30		SIS031 Shaping the Next Generation of Connected & Automated Services for Automotive	SIS038 Artificial Intelligence Transforming Transportation Management	
Oct. 21 Wed	09:00-10:30	PL 2 Connected World: Designing Human-Centered and Inclusive Mobility for All Convention Hall (1F)			
	11:00-12:30		SIS039 Co-Creating Inclusive and Climate-Neutral Urban Mobility through ITS and Data-Driven Interventions		SIS041 The Journey to Direct V2X Deployment: International Perspectives from Diverse Stakeholders
	14:00-15:30		SIS047 Orchestrating Multimodal Traffic in the CCAM Era through AI-Driven and Cooperative ITS	SIS083 Advancing Automated Public Transit around the World	SIS049 From Consumer Education to Trust to Acceptance
	16:00-17:30		SIS055 Accessibility-Compliant Design, Human Machine Interaction and Digital Inclusion in the Era of Autonomous Vehicles	SIS056 Titans: Canadian Innovation Defining the Future of Smart Mobility	SIS057 Digital Infrastructure and Transportation Data
	18:00-20:00	Gala Dinner Convention Hall (1F)			
Oct. 22 Thu	09:00-10:30	PL 3 The Evolution of Mobility: Localized Innovation and New Ecosystems Convention Hall (1F)			
	11:00-12:30		SIS063 The Evolution of Precision for Safety through ITS	SIS064 Driverless Vehicles: Addressing Sustainability and Safety Challenges from a Human-Centric Perspective	SIS065 AI-Enabled and Integrated Data-Driven Technologies for Intelligent Infrastructure Maintenance
	14:00-15:30		SIS071 From Pilots to Deployment: A Global Tour of Automated Driving	SIS072 Data-Driven Innovation for Green, Secure, and Connected Fleet Mobility	SIS073 Construction Plan for a High-Durability, Rain-Resistant Pavement Marking Tape Using Warm-Mix Asphalt for Smart Road-Infrastructure Development
	16:00-17:30		SIS079 Management of Electronic Traffic Regulations (METR)	SIS080 Building and Operating a Nationwide Real-World FOT Network for Autonomous Vehicles: The K-FOTIA Initiative	SIS081 Data-Driven Transportation Policy and Road Environment Management Using ITS and Social Response Data
Oct. 23 Fri	09:00-10:30			SIS089 Korea-EU Mobility R&D Partnerships & Global Networking for Early-Career Researchers	SIS090 Recycled-Plastic Modular Roads: A New Framework for Sustainable and Safe Mobility
	11:00-12:30		SIS095 V2XPFS: A Nationwide Endeavor on Deployment of V2X in the United States and Canada	SIS096 LEO satellite Integration for Ensuring Reliable Positioning, Timing, and Connectivity in Autonomous Driving and C-ITS	SIS097 Development of Reconfigurable Architecture, Evaluation, and Verification Technology for Defects in Autonomous Vehicle
	14:00-15:00	Closing Ceremony Convention Hall (1F)			

* For the latest session information, please refer to the official Congress website and mobile app

Room 106	Room 107	Room 108	Room 109
STP001 Using In Vehicle Sensors to Improve Safety	TP001 Advanced Satellite and Terrestrial Communication Providing Connectivity for Smart Mobility		SP001 Data Analytics for Sustainable and Inclusive Mobility
		SP009 Simulation and Modelling of Mobility Systems	SP008 Route Planning & Demand Forecasting
SIS001 V2X Technologies for Hyper Connected Mobility Service	SIS002 A Study on Pavement Integrating ITS Technologies in Korea	SIS005 Green and Energy Efficiency Mobility Services in Urban Transportation	
ES 1 From Pilots to Platforms: Scaling Nationwide Connected & Automated Mobility in the 5G/6G Era		SIS017 Activities Toward ITS Deployment by Japanese Government	SIS016 AI for Reliable Perception, Decision-Making and Control in CCAM
ES 2 AI on the Road: Revolution or Regulation for Data-Driven Mobility	SIS022 Where Automated Vehicles Add Most Value: Public Transport and Shared Services	SIS030 Harmonic Urban Mobility in Autonomous Driving Era	SIS026 Providing Safe and Secure Mobility
ES 3 Toward Building a Zero-Accident Society	SIS027 Key Success Factors for Multilane Free-Flow Electric Toll Collection System	SIS035 Advancing ITS Facility Management: Research to Practice	SIS034 Behavioural Change for Sustainable Transport
ES 4 AI: The Good, the Bad, and the Ugly	SIS032 Advancing Automation-Ready Corridors	SIS043 Road Safety across Regions: Worldwide Data-Driven Approaches	SIS042 From Pilots to Practice: Realising Everyday Benefits from C-ITS at Scale
ES 5 From Interoperability to Integration through ITS Standards?	SIS046 Neurocognitive Mechanism for Safe Mobility in Aging Societies	SIS051 Citiverse: Global Data Space Interoperability for Sustainable Travel and Mobility Focus on "Data Space Challenges: Data Sharing for Efficient Mobility & Logistics"	SIS050 Future Directions for Road-Vehicle Cooperative Roadway Lighting Balancing Energy Efficiency and Safety
ES 6 A New Paradigm for ITS: Driven by the Infrastructure Needs of RUC (Road User Charge)	SIS088 Accelerating CCAM Deployment – Business and Operations across Global Automated Mobility Services	SIS059 Mind the Gap: Why ITS Standards Struggle to Reach Deployment and What Practitioners Are Doing about It	SIS058 Enhancing Intersection Safety
ES 7 The Zero-Click Journey: When the Smartest Ticket Is No Ticket at All	SIS062 Building Trust in Automated Mobility: Towards Sustainable Deployment	SIS067 Equity-Driven Digital Twins for Transport Planning: UK-Korea Collaboration and Lessons Learnt	SIS066 Cooperative Corridor Deployment at Scale: C-ITS Readiness for Major Events and Olympic Cities - Leveraging Operational Systems for Targeted High-Value C-ITS Corridor Deployments
ES 8 Fair Mobility as a Service (Fair MaaS) for Beyond and Connected Society	SIS070 C-ITS (V2X) for VRU Protection toward Euro NCAP	SIS075 Cybersecurity and Privacy Risk Governance in Sustainable Automated Mobility	SIS074 Towards Social Implementation of Mobility Data in Disasters
ES 9 The Role of AI and Location Intelligence in Smart Mobility Transformation	SIS094 The Current Status of the Ever-Expanding C-ITS (V2X)	SIS048 Using Technology to Alter Driver Behavior	SIS082 Adaptive Roads: Climate-Resilient ITS Innovations from New Zealand and Beyond
	SIS087 Challenges and Global Trends for the Implementation and Deployment of V2X Communications	SIS092 Bridging the Divide: Harmonizing AI-Driven Governance and Equitable Access in a Connected World	SIS091 Code Red for Innovation: Advancing Emergency Response through Intelligent Transportation Systems
	SIS053 Developing a Korean ODA Model to Promote Intelligent Transport Systems (ITS) Projects in Developing Countries	SIS099 Support from Road Infrastructure for the Realization of Connected and Autonomous Mobility	SIS098 Integrating the Movement of People with Vehicles: What Is the Reality?

Session Schedule at a Glance

Lunch | October 19 (Mon) – 23 (Fri), 2026, 12:30 – 14:00

- October 19 (Mon) – 22 (Thu): Convention Hall (Convention Center) and Gangneung Oval
- October 23 (Fri): Gangneung Oval



Website

Convention Center (3F)

- PL Plenary Session
- ES Executive Session
- SIS Special Interest Sessions
- SP Scientific Paper Sessions
- TP Technical Paper Sessions
- STP Scientific & Technical Paper Sessions
- IS Interactive Poster Sessions

Date	Time	Room 301	Room 302	Room 305	Room 306
Oct. 19 Mon	10:00-11:10	Opening Ceremony Convention Hall (1F)			
	11:30-12:30	TP004 Green ITS for Mass Transit Systems, E-buses, E-scooters, and Smart Energy Management	SP003 Safety Assessment & Protection for Vulnerable Road Users and Micromobility	TP007 Advanced Management	SP007 Traffic Management - Traffic Optimization
	14:00-15:00	TP011 Vehicle Teleoperations & Communications			TP013 Automated Driving Cybersecurity Worldwide Policy Framework
	15:30-17:00	SIS009 Perception, Acceptance and Expectation on Vehicle Automation and Their Implication for Safety		SIS018 Emerging Use Cases for Safety Using AI	SIS010 Data Without Borders: Managing Cross-Border Mobility Data in a Connected World
Oct. 20 Tue	09:00-10:30	PL 1 Beyond Mobility: AI-driven ITS toward a Safe and Sustainable Future Convention Hall (1F)			
	11:00-12:30			SIS021 Automotive Cybersecurity, Global Issues, Standards, Trends, and Challenges	SIS020 Maintaining the Connected Road: AI-Driven Infrastructure Health Monitoring for Sustainability and Safety
	14:00-15:30			SIS029 The 6th AAM Safety and Certification Technology Seminar Series	TP015 Traffic Flow Optimisation
	16:00-17:30			SIS037 AV Global Cities Scan – Comparative AV Policy Frameworks and Experience	TP016 AI & Data for Traffic Safety
Oct. 21 Wed	09:00-10:30	PL 2 Connected World: Designing Human-Centered and Inclusive Mobility for All Convention Hall (1F)			
	11:00-12:30			SIS045 Positioning, Navigation and Timing (PNT) Services Standardization	SP022 The Hidden Impact: How ITS Is Reshaping Environment and Land Use
	14:00-15:30				SP024 Closing the Safety Gap: Strategies for Schools, Seniors and Beyond
	16:00-17:30			SIS061 Shaping Livable and Bustling Community by ITS Technology	SP026 Automated Mobility: Socio-Demographic and Economic Realities
	18:00-20:00	Gala Dinner Convention Hall (1F)			
Oct. 22 Thu	09:00-10:30	PL 3 The Evolution of Mobility: Localized Innovation and New Ecosystems Convention Hall (1F)			
	11:00-12:30			SIS069 ITS Without Borders: Driving Innovation through Global Collaboration	TP019 Multimodal Sustainability & Safety
	14:00-15:30			SIS077 Women Users of the Mobility Network: Is Safe, Safe Enough?	SP029 ITS Application & Future Mobility -01
	16:00-17:30			SIS085 Who Is the ITS Engineer of the Future?	SP031 ITS Application & Future Mobility -02
Oct. 23 Fri	09:00-10:30				STP016 ITS Data, Network & Forecasting
	11:00-12:30				TP022 ITS Application & Future Mobility
	14:00-15:00	Closing Ceremony Convention Hall (1F)			

* For the latest session information, please refer to the official Congress website and mobile app

Room 307	Room 308	Room 309	Room 310	3F Lobby
SP006 Resilience	STP019 Crowd Dynamics	TP006 Demand-Response Services and Trip Planning	TP005 Accessibility and Safety Enhancement with Implementation of New Mobility Solutions	
TP012 New Technology Call for New Benchmarks. Adapting for Today	SP012 Multi Model Safety Solutions	SP011 Mobility Choices for AMD by Elderly People - Aging Population	SP010 Using Data for Traffic Optimization	
SIS040 Navigating the Future: AI-Enabled Traffic Management	SIS008 From Technology to Acceptance: Localized ITS Planning for Cultural, Tourism and Community Contexts	SIS007 Standards as an Enabler of Automated Vehicle Deployment: Lessons from the UK and Korea	SIS006 Enhancing Infrastructure Resilience: AI-Driven Security Monitoring for Encrypted Cyber Threats in ITS	
SIS019 Driving Economic Growth through Smart Mobility: How Regions Worldwide Attract Investment, Innovation, and Talent	STP003 Smart Traffic Management	SP015 Controlling Automated Vehicles by Various Strategy	SIS011 Enabling Cyber-Secure Vehicle-Infrastructure Data Exchange	IS001 (10:00~12:00) Automated Vehicle Technologies
SP017 Modal Choice and Mode Switching: Changes in Travel Behaviour	STP004 Real Time Traffic Signal Adapting to Urban Environment	SP016 Advanced Techniques to Improve Vehicle Flow	SIS028 AI-Enabled Traffic Safety Management Systems	IS002 (13:30~15:30) Smart Infrastructure & Traffic Management
STP018 Demand Responsive Transport User Needs, Optimisation & Planning	SP018 Smart Infrastructure	STP005 Techniques to Jump our Automated Vehicle Driving	SIS036 The Evolution of Next-Generation Navigation	IS003 (15:30~17:30) Safe, Sustainable & Inclusive Transport
SP021 Public Transport Optimisation	SP020 Smart Infrastructure for Traffic Management	STP006 ADAS/AV Safety by Communications	SIS044 Beyond Sensing: AI-Powered Multi-Sensor Intelligence for Next-Generation ITS	IS004 (10:00~12:00) Mobility Services: Demand-Response, Parking, Ridesharing and Other Sharing Services
SP023 Safety in ITS	STP007 Methodological Challenges in Transport Management	TP017 Real Time Work Zone Information Warnings Using C-ITS	SIS052 The Intelligent Mobility Pipeline: From Multi-Source Data Fusion to High-Resolution Urban Services and Societal Value	IS005 (13:30~15:30) Social & Safety Aspects of ITS
SP025 Enhanced Safety	STP009 ITS for Road Maintenance	STP008 Autonomous Control - Beyond the Safety Officer	SIS060 Development of Next-Generation Mobility Simulation and Autonomous Service Technologies for Metropolitan Areas	IS006 (15:30~17:30) ITS Data Models & Simulation
SP027 Traffic and Trajectory - Macro and Micro Modellings	STP010 Traffic Signal Control Enhancement	SIS086 Global Connectivity Solutions to Support Connected and Automated Driving	SIS068 Measuring Mobility for All in ITS: What Is Needed to Overcome the Gaps?	IS007 (10:00~12:00) Applying Advanced Transport Models
SP028 Automating Perception	STP012 Advanced Urban Traffic Control	STP011 Standards and Regulation for Automated Vehicles	SIS076 Sandbox on Autonomous Vehicle Trials	IS008 (13:30~15:30) Case Studies to Advance Policy Governance and Standards
SP030 Driving Behavior Modeling	TP020 Challenges in Transport Management System	STP013 C-V2X Interactions for Cooperative Safety		IS009 (15:30~17:30) General ITS Application & Tools to Improve Automated Vehicles
STP015 Traffic Management & Disruptions	STP014 Integration of Smart Infrastructure	SP032 Traffic Management -01	SIS093 ITS Innovation Technosystem in Europe	
STP017 Advanced Method for Routines, Congestion and Traffic Insight	TP021 Challenges in Smart Infrastructure	SP033 Traffic Management -02		

Plenary Session (PL)

PL001

Beyond Mobility: AI-driven ITS toward a Safe and Sustainable Future

Oct 20(Tue) 09:00-10:30, Convention Hall, Convention Center

Session Description

“Beyond Mobility” signifies a paradigm shift from vehicle-centric systems to a human-centered, multimodal ecosystem that embraces everything from integrated public transit and micromobility to 3D transportation like Urban Air Mobility (UAM). In this transformation, Artificial Intelligence transcends its role as a simple predictive tool, becoming the foundational infrastructure for orchestrating complex, interconnected networks through the convergence of High-performance Computing, Generative AI (LLMs), and Physical AI. This plenary session presents a strategic vision for a resilient and intelligent transportation ecosystem that prioritizes people over vehicles, exploring how AI-driven innovation can redefine core values – ensuring safety for all road users while advancing long-term environmental and social sustainability in an increasingly connected and three-dimensional mobility landscape.

Moderator	Hwasoo Yeo Korea Advanced Institute of Science and Technology, Republic of Korea
Speaker	Hong-Jong Jeong LIG Wayties, Republic of Korea Mohammed Hikmet HMI & Ohmio Group, New Zealand Tjark Tjin-A-Tsoi TNO, Netherlands Marc Williams TxDOT, United States of America

Plenary Session (PL)

PL002

**Connected World:
Designing Human-Centered and Inclusive Mobility for All**

Oct 21(Wed) 09:00-10:30, Convention Hall, Convention Center

Session Description

In a truly “Connected World,” all transport modes, people, and the physical and digital infrastructures that support them are seamlessly interconnected, creating a hyper-connected mobility ecosystem that moves beyond efficiency to prioritize human-centered values. This session explores how advanced ITS and connectivity can enable inclusive mobility environments that ensure accessibility, safety, and equitable participation for all, particularly for vulnerable populations such as the elderly, persons with disabilities, and the digitally underserved. By leveraging real-time data integration, interoperable platforms, and user-informed system design, the discussion will highlight strategic policy frameworks and governance models that translate connectivity into tangible social value. Ultimately, this plenary examines how a hyper-connected network can dismantle structural and technological barriers, fostering a fair and inclusive transportation landscape where no user is left behind.

Moderator	Kyounga Park KOTI, Republic of Korea
Speaker	Hyunsik Oh LOTTE Corporation, Republic of Korea Oliver Looker NGIS, Australia Jerry Buttimer Irish Government, Ireland Dina El-Tawansy Caltrans, United States of America

Plenary Session (PL)

PL003

**The Evolution of Mobility:
Localized Innovation and New Ecosystems**

Oct 22(Thu) 09:00-10:30, Convention Hall, Convention Center

Session Description

The mobility paradigm is shifting from uniform, “one-size-fits-all” models toward localized innovation, strategically adapting ecosystems to specific regional demographics, fiscal constraints, and movement patterns. Moving beyond theoretical pilots, this session examines the practical deployment, public-private co-governance, and operational sustainability of highly contextualized services that address diverse regional priorities. Through a comparative analysis of international implementation cases, the panel will highlight concrete applications: integrating healthcare with mobility to optimize municipal budgets, deploying specialized Demand Responsive Transport (DRT) for tourism, and securing essential transit lifelines in underserved rural areas. Ultimately, global experts will explore how these financially viable systems can be scaled and governed to ensure long-term continuity, maintaining rigorous interoperability and alignment with global standards while responding to the unique needs of each community.

Moderator	Keechoo Choi Ajou University, Republic of Korea
Speaker	Nayoon Heo MOLIT, Republic of Korea
	Frank Lin Taiwan Secom Company Ltd., Chinese-Taipei
	Menno Malta Monotch, Netherlands
	Clayton Tino Beep, Inc., United States of America

Executive Session (ES)

ES001

**From Pilots to Platforms: Scaling Nationwide Connected & Automated
Mobility in the 5G/6G Era**

Oct 20(Tue) 11:00-12:30, Room 106, Convention Center

Session Description

Connected and automated mobility is gaining more traction across the globe, yet many deployments are limited to small-scale pilots, such as isolated test corridors, city AV trials, and proprietary platforms that do not have wide-spread interoperability. This session will provide a strategic look into how agencies can scale isolated deployments into robust, nationwide mobility infrastructures, highlighting the current state of automated mobility technologies, their limitations, and future technological advancements anticipated to bolster successful widespread deployment and interoperability across Europe, North America, and Asia. Session speakers will discuss how current connected and automated systems may evolve into cohesive national architectures, while balancing innovation with standardization, governance, and other relevant policies. Lessons learned from systems in operations; standards and proprietary data platforms for ingesting real-time streams from vehicles, roadside units, and networks; and use of advanced AI tools for predictive traffic management, safety, and system optimization can be discussed by executive level speakers. The session will also address cyber and physical security, such as securing V2X links and edge nodes against attacks and failures. Finally, speakers will highlight technical design choices, evolving policies, standards, and international harmonization, highlighting Korea’s advancements in 5G/6G communications and its smart-city (K-City) ecosystem as a living testbed for scalable engineering solutions

Moderator	Mario Toscano VHB, United States of America
Speaker	Akhilesh Srivastava ITS India Forum, India
	Maxime Flament 5GAA, Belgium
	Lisa Wilson UDOT, United States of America
	John Kenney Toyota, United States of America

Executive Session (ES)

ES002

**AI on the Road:
Revolution or Regulation for Data-Driven Mobility**

Oct 20(Tue) 14:00-15:30, Room 106, Convention Center

Session Description

From AI-based traffic signal optimisation and predictive maintenance to road safety analytics and automated incident detection, artificial intelligence is being firmly embedded into transport and mobility systems worldwide. In Europe, deployment is unfolding under the AI Act, Data Act, and emerging mobility data spaces. A number of Asia-Pacific countries are integrating AI into smart city and connected corridor strategies, while the US is advancing sector-led AI innovation through federal guidance and state-level experimentation. This panel will address the question: Does AI genuinely deliver measurable safety, sustainability, efficiency and cost-saving gains, or does it introduce new dependencies, systemic risks, and governance complexity across regions? Panellists will explore three core dimensions to assess whether governance frameworks are keeping pace with AI-enabled ITS: Are regulatory approaches converging or fragmenting global deployment models? How do we ensure algorithmic accountability in safety-critical mobility systems such as AI-supported traffic control systems, connected vehicle ecosystems (C-ITS), and Level 3-4 automated driving? How can we overcome technical and workforce challenges, such as data quality for machine learning, interoperability across mobility data platforms, cybersecurity resilience of edge-cloud architectures, and the growing skills gap in AI system validation, to deploy AI responsibly at scale for ITS?

Moderator	Martin Russ AustriaTech GMBH, Austria
Speaker	Lin Wang Research Institute of Highway, Ministry of Transport, China Jantina Woudstra RDW, Netherlands Beth Kigel HNTB Corp., United States of America Joost Vantomme ERTICO ITS Europe, Belgium

Executive Session (ES)

ES003

Toward Building a Zero-Accident Society

Oct 20(Tue) 16:00-17:30, Room 106, Convention Center

Session Description

In pursuit of the shared societal goal of achieving zero traffic accidents, mobility safety has reached a critical turning point. Approaches that rely solely on improving autonomous vehicle capabilities are reaching their limits. As a result, an integrated three-pronged approach—connecting people, mobility, and infrastructure—is emerging as the next societal standard. With strong public–private investment, the societal deployment of V2X is advancing rapidly and delivering tangible results in real-world environments. Support for blind-spot detection at intersections, pedestrian detection, and accident-free validation testing integrating V2X is accelerating, with initiatives now moving toward market deployment. This session will provide an overview of the latest global developments toward an accident-free society, led by global key stakeholders, and introduce a High-Level Guideline for its realization. It will outline cross-border coordination areas, clarify concrete investments, actions, and responsibilities for implementation, and present a vision for how we can lead global expansion toward an accident-free society, highlighting the potential of enhanced public–private collaboration.

Moderator	Takashi Oguchi The University of Tokyo, Japan
Speaker	Hakseong Kim LG Electronics, Republic of Korea Jihan Ryu Hyundai Motor Group, Republic of Korea Shin Yamamoto Toyota Motor Corporation, Japan Jens Arik Almkermann Volkswagen, Germany Hagai Zyss Qualcomm, Inc., United States of America

Executive Session (ES)

ES004

AI: The Good, the Bad, and the Ugly

Oct 21 (Wed) 11:00-12:30, Room 106, Convention Center

Session Description

A balanced, critical overview of how Artificial Intelligence is transforming transportation. Speakers will address the immense benefits of technological advancement while confronting ethical pitfalls, societal disruptions, and existential risks. The aspects of AI will be discussed:

The Good: The Promise and Potential

AI in transportation optimizes efficiency, safety, and sustainability through real-time data analysis, predictive maintenance, and automation. Key applications include autonomous vehicles (AVs) and drones, smart traffic management systems, route optimization for fuel efficiency, predictive maintenance for fleet reliability, and AI-driven driver monitoring to enhance safety.

The Bad: Ethical Dilemmas and Societal Disruptions

Using AI in transport has also raised ethical questions, considering that the algorithms that power these applications rely on data. Misrepresentations, poor quality, or skewed data could lead to accidents with potentially fatal consequences; hence, stakeholders must be cautious in implementing AI.

The Ugly: Dangers, Risks, and Unintended Consequences

The “ugly” side of AI in transportation refers to the serious ethical, safety, and environmental drawbacks that accompany technological advancements. While AI promises efficiency in logistics and self-driving capabilities, its “ugly” manifestations include catastrophic safety failures, invasive surveillance, and high environmental costs.

Moderator	Steven Dellenback Southwest Research Institute, United States of America
Speaker	Alain Blanchette SensorMine, Australia
	Angelos Amditis ICCS, Greece
	Shailen Bhatt Atkins Realis, United States of America
	Dina El-Tawansy Caltrans, United States of America
	Brian Cronin U.S. Department of Transportation, United States of America

Executive Session (ES)

ES005

From Interoperability to Integration through ITS Standards?

Oct 21 (Wed) 14:00-15:30, Room 106, Convention Center

Session Description

Despite years of ambition, seamless integration across mobility systems remains elusive. This session confronts the persistent gap between vision and reality in integrating transport and mobility technologies across regions, operators, and competitive markets.

Panellists will address the structural barriers: legacy systems, fragmented standardisation bodies, incompatible data models, and hesitation driven by the “first mover disadvantage.” How far have we come in addressing cross-border (C-)ITS interoperability, harmonisation of vehicle-to-everything (V2X) communication protocols, integration of tolling and road pricing systems, V2X services for enabling feasibility of shared vehicle services, and the operationalisation of mobility data spaces? To what extent are common specifications enabling (cooperative) automated driving functions, automated urban shuttles, truck platooning, and Level 4 deployments operating across jurisdictions? With the expanding climate challenges and resource efficiency goals, integration is more than a technical aspiration. Can integration function in competitive business environments where data is both infrastructure and a commercial asset? How can standards support fair market entry for mobility service providers, shared mobility platforms, and (C-)ITS operators without stifling innovation? The session will explore the growing role of European mobility data spaces and international standardisation efforts. The key question is whether global standardisation efforts are finally reaching implementation scale or simply adding new layers to an already complex ecosystem.

Moderator	Peter Schmitting ERTICO ITS Europe, Belgium
Speaker	Jinling Hu CICT, China
	Niels Peter Skov Andersen Anemone Technology, Denmark
	Shante Hastings Delaware DOT, United States of America
	Susanne Schulz Die Autobahn GmbH des Bundes, Germany

Executive Session (ES)

ES006

**A New Paradigm for ITS:
Driven by the Infrastructure Needs of RUC (Road User Charge)**

Oct 21(Wed) 16:00-17:30, Room 106, Convention Center

Session Description

As traditional fuel tax revenues decline, the transition to a Road User Charge (RUC), and specifically the Mileage Based User Fee (MBUF), is essential for sustainable infrastructure funding. MBUF offers an equitable model by charging drivers based on actual road usage. The recent establishment of the Asia-Pacific Road User Charge Alliance powerfully underscores the importance of this shift, demonstrating a strong regional commitment to advancing secure and ecologically sustainable transport networks.

However, while MBUF has been successfully implemented in certain pioneering regions, widespread global adoption remains a complex endeavor. Unique policy, technical, and social challenges exist across the globe, including throughout Europe and the Americas. Because overcoming these diverse regional hurdles will require significant time and international cooperation, MBUF must be envisioned not merely as a short-term fix, but as a critical, long-term future social system that will ultimately define next-generation mobility.

This global conference session will explore this evolving landscape. We are honored to feature a diverse panel of esteemed speakers from the Asia-Pacific, as well as leading experts from Europe and the Americas. Together, they will analyze region-specific challenges, share international best practices, and discuss strategies to realize RUC/MBUF as the ultimate Intelligent Transport Systems (ITS) framework.

Moderator	Henry Meng Institute for Information Industry, Chinese-Taipei
Speaker	Richard Forgan NZ Transport Agency, New Zealand
	Marc-Pascal Lehrich Skytoll, Germany
	Matthew Daus Windels Marx Lane & Mittendorf, LLP, United States of America
	Howie Sim NCS Pte Ltd, Singapore

Executive Session (ES)

ES007

The Zero-Click Journey: When the Smartest Ticket Is No Ticket at All

Oct 22(Thu) 11:00-12:30, Room 106, Convention Center

Session Description

The ITS industry has spent decades refining frictionless ticketing designed to make payment invisible: account-based ticketing (ABT), Near-Field Communication (NFC) contactless payments, biometric gates, mobile wallets and MaaS back-office clearing systems are becoming ubiquitous. Yet a more radical proposition is gaining attention: What if the ultimate seamless journey removes the transaction altogether?

Using Luxembourg's nationwide Free Public Transport (FPT) model as a central case study, this session examines what happens when fare collection, validation devices and revenue protection systems disappear. When fare evasion, ticket taps and gate data are no longer available, how do authorities measure demand, forecast peak loads, or optimise timetables? Can automated passenger counting (APC), on-board sensors, Bluetooth/Wi-Fi tracking, AI-driven origin-destination modelling or digital twins replace traditional fare data? And what are the operational and financial implications of dismantling complex back-office systems?

Beyond technology, the discussion probes whether eliminating fares meaningfully could improve affordability and social equity, while allowing funds previously dedicated to gates, inspection and fraud management to be redirected toward service frequency, electrification or 24-hour operations.

By comparing models from different regions and governance contexts, the session challenges a core assumption of smart mobility: does better service depend on ever more advanced transaction systems, or on removing the transaction itself?

Moderator	Eetu Pilli-Sihvola VTT Technical Research Centre of Finland, Finland
Speaker	Thierry Santer Embassy of Luxembourg in Seoul, Luxembourg
	Tongkarm Kaewchalermtong ITS Thailand and Chulachomklao Royal Military Academy, Thailand
	Mike Waters West Midlands Combined Authority, United Kingdom (Great Britain and Northern Ireland)
	Erik Varney Verizon, United States of America
	Silvia Breu Município Oeiras, Portugal

Executive Session (ES)

ES008

Fair Mobility as a Service (Fair MaaS) for Beyond and Connected Society

Oct 22(Thu) 14:00-15:30, Room 106, Convention Center

Session Description

Are our mobility services fair to all active mobility users (AMU) in the cities and communities? This question becomes that the recent global climate change crisis asks to the transportation sectors how to be sustainable with respect to the role and responsibility worldwide. The full value of enhanced eco-mobility applications under the concept of sustainable eco and green intelligent transport systems (G-ITS) can only be unlocked if ITS is accessible to all in an equitable manner. Fair MaaS leverages mobility ecosystem for shared and/or equitable transportation by means of digitalization and sustainability in order to balance fairness by age and gender, income level, urban and rural divide, depending on passenger cars or public transit, etc. Digitalization represents the most important link to electric mobility including vehicles and transport infrastructures connected with other things by ensuring automated and/or networked mobility solutions. Sustainability provides recently the new business models in the sharing economy in terms of global climate change issues. As the world works together to address challenges of global climate change the speakers will focus on the technologies available within the ITS and Connected Automated Driving Systems (CADS) industries that can be used to implement the fair mobility as a service. This session will discuss the question: How can MaaS be fair to the all active mobility users (AMU) by incorporating the real benefits of digitalized sustainable transportation technology as well as policies?

Moderator	Young-Jun Moon Korea Advanced Institute of Science and Technology, Republic of Korea
Speaker	Kyuok Kim KOREA TRANSPORT INSTITUTE, Republic of Korea Tamara Djukic MLsquared, Netherlands Margaret Abe-Koga County of Santa Clara, United States of America Silje Troseth Q-Free, Australia

Executive Session (ES)

ES009

The Role of AI and Location Intelligence in Smart Mobility Transformation

Oct 22(Thu) 16:00-17:30, Room 106, Convention Center

Session Description

Cities and regions are accelerating the deployment of AI-enabled mapping platforms, which fuse real-time data and advanced analytics to optimize passenger mobility and freight routing, thereby enhancing safety, operational efficiency, and sustainable infrastructure management.

Modern AI-enabled mapping platforms now fuse open data, vehicle sensor inputs, aerial imagery, and large-scale GPS traces to automatically maintain accurate digital maps at global scale. These data foundations support sophisticated mobility analytics, delivering insights across historical trends, live traffic conditions and predictive forecasts.

As freight movement becomes an even greater priority, the need for commercial-grade routing and navigation has intensified. AI-powered mapping systems can incorporate truck-specific restrictions – such as bridge heights, weight limits, hazardous material rules and designated freight corridors – to prevent bridge strikes, reduce operational disruptions and improve safety.

Capabilities such as origin–destination analysis, route performance monitoring, traffic statistics, junction optimization and freight-focused network insights enable transport authorities, operators and logistics providers to better understand congestion, assess demand and improve overall network efficiency. These capabilities accelerate smart mobility deployment, guide infrastructure investment and support cleaner, safer and more efficient passenger and freight transportation systems.

Moderator	Laurie Matkowski Lumenor Consulting, United States of America
Speaker	Charles Man Sing Wong The Hong Kong Polytechnic University, Hong Kong, China Oretis Trasanidis 28DIGITAL, Greece Tracy Larkin Thomason Nevada Department of Transportation, United States of America Erik Dietz PrePass Safety Alliance, United States of America

Special Interest Sessions (SIS)

SIS001

V2X Technologies for Hyper Connected Mobility Service

Oct 19(Mon) 15:30-17:00, Room 106, Convention Center

Session Description

Hyper-connected mobility services are emerging as a key enabler for safer, more efficient, and cooperative transportation systems. These services go beyond basic connectivity by integrating internationally standardized V2X communication technologies, software-defined architectures, and service-level validation in real-world environments. This special session presents the world’s first implementation of a 5G-NR-V2X communication device compliant with 3GPP Release 16, along with the development and verification of hyper-connected mobility services derived from national R&D and industrial development initiatives conducted in Korea. The outcomes, achieved between 2022 and 2025, demonstrate standards-compliant V2X devices and service-level validation in real traffic environments. The session further introduces ongoing Seamless V2X technology development (2025–2027) aimed at enabling continuous and reliable connectivity across vehicles, infrastructure, and networks. In addition, the session will share the current status of 3GPP Release 18-based V2X technology development (2025–2028), highlighting the evolution of V2X technologies toward advanced hyper-connected mobility services. Key topics include software-defined mobility (SDM) architectures, soft-V2X service frameworks, standard-driven implementation strategies, and performance validation based on large-scale field trials. The session will also include an academic perspective on software-defined vehicles (SDVs) and international standardization activities, providing insights into architectural trends and protocol-level considerations for future hyper-connected mobility services. Presentations from industry and national research institutes will address practical deployment experiences and lessons learned, followed by a panel discussion on future directions for hyper-connected mobility services, global collaboration, and the evolution of V2X ecosystems.

Organizer	Byoungman An Korea Electronics Technology Institute, Republic of Korea
Moderator	Daekyo Shin Korea Electronics Technology Institute, Republic of Korea
Speaker	Hojun Kim ETTIFOS, Republic of Korea Byoungman An Korea Electronics Technology Institute, Republic of Korea Minsung Kwak LG Electronics, Republic of Korea Yooseung Song Electronics and Telecommunications Research Institute, Republic of Korea Jaehoon Paul Jeong Sungkyunkwan University, Republic of Korea

Special Interest Sessions (SIS)

SIS002

A Study on Pavement Integrating ITS Technologies in Korea

Oct 19(Mon) 15:30-17:00, Room 107, Convention Center

Session Description

The recent convergence between road engineering area on expressway and ITS (i.e. Intelligent Transportation Systems) consisted of pavement cutting-edge sensing, performance methodology and various information technologies is discussed. The aim of this session is: sharing and discussing of ITS related pavement technologies for pursuing safety and efficiency level on expressway to its maximum level.

Organizer	Hongsam Kim Korea Expressway Corporation Research Institute, Republic of Korea
Moderator	Jongsub Lee Korea Expressway Corporation Research Institute, Republic of Korea
Speaker	Sungwoo Ryu Korea Expressway Corporation Research Institute, Republic of Korea Ki Hoon Moon Korea Expressway Corporation Research Institute, Republic of Korea Sang Hyeok Moon Kun San National University, Republic of Korea Phan Minh Tam Kun San National University, Republic of Korea

Special Interest Sessions (SIS)

SIS003

Managing Road Traffic in Large-Scale Emergency Situations Using Real-Time Traffic Information (RTTI) Services

Oct 19(Mon) 15:30-17:00, Room 104, Convention Center

Session Description

Natural disasters or civil crisis situations pose significant challenges for road operators in managing traffic and providing instructions to drivers regarding no-drive areas or safe evacuation routes. The TPEG2 Emergency Alerts and Warnings (EAW) protocol delivers language-independent information to drivers that can be processed by all common navigation devices. EAW is based on the Common Alerting Protocol (CAP), ensuring interoperability with approx. 200 public alert message feeds globally. A future extension will also support traffic management in situations where military transports need to be prioritized on public roads, while preserving confidentiality of the military activities.

While technical standards such as TPEG2-EAW provide a proven and interoperable bridge between public warning authorities, RTTI service providers and vehicle navigation systems, large-scale deployment remains limited. Vehicle manufacturers prioritizing electrification and automated driving make it challenging to secure attention for the implementation of RTTI-based public warning services despite their societal value. Drivers will only follow guidance if they trust the information they receive. The session with therefore also elaborate on the importance of quality for the effectiveness of RTTI services by introducing a 5-Star Rating Framework that provides a structured approach for assessing information quality based on accuracy, completeness, coverage, and timeliness.

Organizer	Stephanie Chaufton TISA Traveller Information Services Association, Belgium
Moderator	Stephanie Chaufton TISA Traveller Information Services Association, Belgium
Speaker	Matthias Unbehaun TISA, Germany Kai Roddeck Mecom, Germany Grace Alex TomTom, Australia Bob McQueen Bob McQueen and Associates, United States of America Sarah-Jayne Williams Google, United Kingdom (Great Britain and Northern Ireland) Michael Pack University of Maryland, United States of America Dwight Jordan TriStar Innovations, LLC, United States of America

Special Interest Sessions (SIS)

SIS005

Green and Energy Efficiency Mobility Services in Urban Transportation

Oct 19(Mon) 15:30-17:00, Room 108, Convention Center

Session Description

The London Declaration, “ISO’s Climate Commitment”, which was approved by ISO members in 2021, representing 165 countries from around the world, reads: “ISO hereby commits to work with its members, stakeholders and partners to ensure that ISO International Standards and publications accelerate the successful achievement of the Paris Agreement, the United Nations Sustainable Development Goals and the United Nations Call for Action on Adaptation and Resilience.” Methodology and standardization have been recently promoted the eco and/or green mobility services for both city operators and peoples living in the city for managing carbon-free and energy related mobility in ISO/TC 204/WG 17. A new sub working group under WG 17, i.e. SWG 17.2 is now developing a series of international standards which define energy-based green ITS services providing urban transport management and smart city mobility applications on nomadic & mobile devices by means of not only measuring energy consumption and CO2 emissions but also providing information to users on energy capacity in transportation sectors in the smart city. This session discusses what ITS and mobility technologies need to be incorporated with climate change issues to promote the green and energy-efficient mobility services in urban transport markets worldwide.

Organizer	Young-Jun Moon Korea Advanced Institute of Science and Technology, Republic of Korea
Moderator	Peter Schmitting ERTICO ITS Europe, Belgium
Speaker	Susie Kim ITS Korea, Republic of Korea Byeong Yoon Lee KERI, Republic of Korea Won-Pyoung Kang ITS Korea, Republic of Korea Peter Schmitting ERTICO ITS Europe, Belgium Guy Fournier Pforzheim University, Germany

Special Interest Sessions (SIS)

SIS006

Enhancing Infrastructure Resilience: AI-Driven Security Monitoring for Encrypted Cyber Threats in Intelligent Transportation Systems (ITS)

Oct 19(Mon) 15:30-17:00, Room 310, Convention Center

Session Description

As Intelligent Transportation Systems (ITS) and C-ITS become the backbone of modern urban infrastructure, ensuring their safety and sustainability against cyber disasters is paramount. However, the increasing use of encryption by cyber-adversaries poses a significant challenge, as traditional decryption-based inspection often leads to data privacy concerns and network latency.

This special session presents cutting-edge research on “Network Behavior-Based Security Monitoring” designed specifically for road traffic public services. We introduce a comprehensive framework that includes real-time collection of encrypted traffic, the creation of domain-specific datasets for road environments, and the development of non-decryption AI/ML models for anomaly detection. By focusing on behavioral patterns rather than content inspection, our approach ensures data privacy while maintaining high-speed traffic processing.

The session will feature four leading experts from a multi-institutional consortium who will share insights on multi-departmental collaboration platforms and field-test results from smart city infrastructures. This session aims to provide a strategic roadmap for building resilient cyber-defense technologies that safeguard critical transportation networks against large-scale social disruptions.

This special session will present the achievements of the project on Development of network behavior-based security monitoring technology to against for cryptographic cyber threats (RS-2025-02310231).

This conference special session will present the achievements of the project on developing behavior-based security monitoring technologies for responding to encrypted cyber threats.

Organizer	Yongjoo Song BAMBOOS, Republic of Korea
	Ji Sung Ahn Korea Expressway Corporation, Republic of Korea
Moderator	Yongjoo Song BAMBOOS, Republic of Korea
Speaker	Ilkue Han BAMBOOS, Republic of Korea
	Gin Kim Pado, Republic of Korea
	Chang-Ui Shin KISTI, Republic of Korea
	Myungkeun Yoon Kookmin University, Republic of Korea

Special Interest Sessions (SIS)

SIS007

Standards as an Enabler of Automated Vehicle Deployment: Lessons from the UK and Korea

Oct 19(Mon) 15:30-17:00, Room 309, Convention Center

Session Description

The deployment of Automated Vehicles (AVs) requires not only effective regulation but also practical mechanisms that enable industry to translate regulatory objectives into safe, repeatable engineering and operational practices. This session explores the evolving role of standards in supporting AV deployment, drawing on experiences from the United Kingdom and Korea as both countries progress from early trials towards commercial operations.

The session will begin with presentations highlighting how standards have accompanied the development of the Connected and Automated Mobility (CAM) sector. From providing operational guidance for early national trials and pilot programmes to supporting safety assurance, testing, validation, and deployment, standards have played a critical role in creating confidence among regulators, operators, manufacturers, and the public.

The discussion will examine how emerging standards can help operationalise global regulatory frameworks, including UNECE requirements, by translating high-level safety outcomes into practical engineering methodologies and deployment processes.

As an example, BSI Flex 1888 introduces a structured approach to defining minimal risk events (MRXs), comprising triggers, minimal risk manoeuvres (MRMs), and minimal risk conditions (MRCs), providing an operational framework that can support the consistent implementation of regulatory requirements in real-world environments.

A panel discussion featuring experts from both regions will then explore current progress in AV standardisation, identify remaining gaps and challenges, and discuss opportunities for international collaboration.

The conversation will consider how cross-learning between countries, regulators, industry stakeholders, and standards bodies can help accelerate the development of globally relevant standards while addressing local deployment needs.

By bringing together regulatory, industry, and standards perspectives, the session will demonstrate how standardisation can bridge the gap between regulatory intent and engineering practice, ultimately supporting the safe, scalable, and commercially viable deployment of automated driving systems worldwide.

Organizer	Matteo Novati British Standards Institution, United Kingdom (Great Britain and Northern Ireland)
Moderator	Matteo Novati British Standards Institution, United Kingdom (Great Britain and Northern Ireland)
Speaker	You-Jun Choi KATECH, Republic of Korea
	Young-Jun Moon Korea Advanced Institute of Science and Technology, Republic of Korea
	John McNicol Novamodus, United Kingdom (Great Britain and Northern Ireland)
	Rob Potter Beam Connectivity, United Kingdom (Great Britain and Northern Ireland)

Special Interest Sessions (SIS)

SIS008

**From Technology to Acceptance:
Localized ITS Planning for Cultural, Tourism and Community Contexts**

Oct 19(Mon) 15:30-17:00, Room 308, Convention Center

Session Description

As Intelligent Transport Systems evolve, successful deployment increasingly depends not only on technological performance, but on local acceptance, governance frameworks, and cultural context. This SIS examines how localised ITS and CCAM planning approaches can better respond to the needs of tourism-driven, culturally diverse, and mid-sized cities. The session is structured around complementary project perspectives. CulturalRoad and Diversify-CCAM present participatory planning approaches and equity-oriented evaluation tools that integrate cultural, geographical, policy and social factors into ITS and CCAM deployment strategies, supporting locally accepted and inclusive mobility solutions. Upon this, SINFONICA shares concrete experiences from real-world pilots, illustrating how planning and governance frameworks are translated into operational multimodal and shared mobility services, and highlighting implementation challenges faced by cities and transport operators. Beyond passenger mobility, the session addresses CCAM applications in logistics and urban freight drawing from learnings from the ALICE network.

To ensure economic relevance, the session introduces a CCAM business models toolkit, specifically tailored to help SMEs overcome barriers to automation and workers' reskilling needs. Expanding the scope beyond Europe, we will invite speakers from outside Europe, with a focus on localised ITS strategies for tourism-intensive and mid-sized cities, and on how such approaches can be embedded in long-term transport and regional development policies.

Together, these contributions address the full chain from planning and social acceptance, through implementation, to policy and international transferability, offering cities and regions practical guidance on how to deploy ITS solutions that reflect local identity while remaining scalable and future-ready.

Organizer	John Paddington ERTICO, United Kingdom (Great Britain and Northern Ireland)
Moderator	Vladimir Vorotovic ERTICO, United Kingdom (Great Britain and Northern Ireland)
Speaker	Vladimir Vorotovic ERTICO, United Kingdom (Great Britain and Northern Ireland) Rustam Khalilev Azerbaijan Land Transport Agency, Azerbaijan Ignacio Magalln Bax Innovation and ALICE member, Spain Kyu Ok Kim Korea Transport Institute (KOTI), Republic of Korea

Special Interest Sessions (SIS)

SIS009

**Perception, Acceptance and Expectation on Vehicle Automation
and Their Implication for Safety**

Oct 19(Mon) 15:30-17:00, Room 301, Convention Center

Session Description

For more than twenty years, there have been continuous investment and interest in multiple countries to advance transportation technologies with the vision that automated vehicles (AV) will be deployed widely and transform the future of transportation with significant improvement in safety and reduction in crashes, injuries, and fatalities. For AVs to achieve intended safety benefits, all of us play a role. Public perception and acceptance will impact the AV adoption rate and the frequency with which the technologies are utilized. In addition, correct understanding of technology capabilities and limitations will help users calibrate their expectation and behavior, leading to appropriate and safe interactions with AV. Education and training can help to shape perceptions of technology while also improving knowledge and understanding of how it works.

In this special interest session, domain experts from Asia, Europe, and North America will discuss findings from their work regarding people's perception of AV and its correlation on technology acceptance. Further, insights regarding capabilities and limitations of AV and implications toward safety benefits will be presented.

Organizer	C. Y. David Yang AAA Foundation for Traffic Safety, United States of America
Moderator	C. Y. David Yang AAA Foundation for Traffic Safety, United States of America
Speaker	C. Y. David Yang AAA Foundation for Traffic Safety, United States of America Ayako Taniguchi University of Tsukuba, Japan Virginia Lingham WSP, United States of America Tom Alkim MAPtm, Netherlands

Special Interest Sessions (SIS)

SIS010

**Data Without Borders:
Managing Cross-Border Mobility Data in a Connected World**

Oct 19(Mon) 15:30-17:00, Room 306, Convention Center

Session Description

As transportation systems become increasingly connected, mobility data now crosses jurisdictions faster than regulatory frameworks can adapt. From connected vehicles and freight corridors to AI-driven traffic management, ITS depends on data flows that raise complex questions around privacy, cybersecurity, interoperability, and governance. This session explores how regions manage cross-border mobility data while balancing innovation, safety, and public trust. Panelists will compare regulatory approaches across Asia-Pacific, Europe, and the Americas, including data privacy regimes, cybersecurity standards, and public-sector data stewardship models. The discussion will highlight how differing legal frameworks affect international deployments, public-private partnerships, and technology scalability. Special attention will be given to the challenge of aligning technical standards with ethical and legal expectations, particularly as autonomous and AI-enabled systems mature. Korea's advanced digital infrastructure provides a compelling case for examining how strong national frameworks can support global interoperability.

Organizer	Michele Mueller Michigan Department of Transportation, United States of America
Moderator	Janneke Van Der Zee ITS Canada, Canada
Speaker	Gregg Brunner Michigan Department of Transportation, United States of America Lee Mackenzie Ohmio, New Zealand Judd Herzer Michigan State University, United States of America

Special Interest Sessions (SIS)

SIS011

Enabling Cyber-Secure Vehicle-Infrastructure Data Exchange

Oct 20(Tue) 11:00-12:30, Room 310, Convention Center

Session Description

This session will feature international experts and decision-makers who will discuss needs and ways to advance cyber-secure vehicle-infrastructure data exchange.

Organizer	Sara Davidson U.S. Department of Transportation (U.S. DOT), United States of America
Moderator	Valerie Briggs U.S. Department of Transportation (U.S. DOT), United States of America
Speaker	Russell McMurry Georgia Department of Transportation (GDOT), United States of America Jeffrey Fefer Qualcomm, United States of America Kevin Ro Toyota, United States of America Sean Cho Autocrypt, Republic of Korea

Special Interest Sessions (SIS)

SIS012

Accelerating C-V2X Deployment to Enhance Road Safety

Oct 20(Tue) 14:00-15:30, Room 104, Convention Center

Session Description

With the global collaborative innovation of Information and Communication Technology (ICT), automotive, and transportation industries, there has been a significant acceleration in implementation and deployment of C-V2X worldwide. To protect the traffic participants, the innovative solutions with C-V2X can be provided to reduce accidents, enhance situational awareness, and create safer roadways for the safety of life and property. Meanwhile, the advantages of improving the efficiency of the transportation networks, energy conservation and emission have been achieved with connected mobility. To trigger the cross-industry transformation, C-V2X has been conducted with global standardization, extensive testing and verification activities, and large-scale commercial deployment. C-V2X will play a pivotal role for industrial innovations and changes of social operation modes.

This session will summarize the latest advancements empowered by C-V2X in connected vehicle, automated mobility, and cooperative interacting among traffic participants. The session will focus on the latest progress and challenges related to key technologies and practices, and aims to outline the development path and address the critical issues of the next stage and foster the formation of an industry consensus.

Organizer	Li Zhao National Engineering Research Center of Mobile Communications and Vehicular Networks and CICT Connected and Intelligent Technologies Co Ltd, China
Moderator	Li Zhao National Engineering Research Center of Mobile Communications and Vehicular Networks and CICT Connected and Intelligent Technologies Co Ltd, China
Speaker	Jinling Hu National Engineering Research Center of Mobile Communications and Vehicular Networks, China Maxime Flament 5GAA, Belgium Kyeong-Pyo Kang Korea Transport Institute, Republic of Korea Ning Xie China Academy of Information and Communications Technology, China

Special Interest Sessions (SIS)

SIS013

5G Enabling “Beyond Mobility, Connected World”

Oct 20(Tue) 11:00-12:30, Room 102, Convention Center

Session Description

5G technology is widely used in mobile communication networks today. Deployments are ongoing, and they are at the core of our Connected World.

5G contains numerous features supporting mobility and ITS, for instance enhanced mobile broadband, ultra-high reliability and low latency, and massive IoT.

5G provides ubiquitous connectivity, connecting all traffic participants and means of transportation, and as such plays a vital role in the evolution towards greener communities and more resilient systems, increased access and equity, and safer, smarter streets for all.

Building on the successful SISes on 5G during the previous congresses, the goal of this session is to elaborate on latest developments in using and deployments leading to 5G in an ITS context. The session will also discuss how different stakeholders in the ITS community are planning to employ and benefit from 5G technology, and where they see risks and opportunities.

During this session, leading experts and companies will share their views regarding the evolution of ITS services, and the sustainable evolution path for enabling connectivity technology. Panelists are drawn from related industry and trade associations, such as 5G Automotive Association, Next Generation Mobile Network, ERTICO, ITS America, and ITS Asia-Pacific.

Organizer	Tim Leinmueller DENSO, Germany
Moderator	Tim Leinmueller DENSO, Germany
Speaker	Jim Misener WSP, United States of America Ralf Weber Qualcomm, Germany Robert Gee Aumovio, United States of America Eetu Pilli-Sihvola VTT, Finland Paul Gray Cohda Wireless, Australia Alexander Kiening DENSO, Germany

Special Interest Sessions (SIS)

SIS014

**From Black Boxes to Glass Boxes:
Why Trust Is the Missing Link in Transportation Safety**

Oct 20(Tue) 11:00-12:30, Room 103, Convention Center

Session Description

Public agencies are deploying more AI-powered and automated transportation safety technologies than ever before, yet public confidence in those systems continues to decline. This session explores why trust and transparency, not technology alone, have become critical for modern transportation safety.

In public safety, “trust us” is no longer sufficient. Cities, courts, journalists, and families increasingly demand systems that are observable, auditable, explainable, and contestable. If a technology cannot be clearly explained to a parent, a judge, or a reporter, it does not belong in public safety. Panelists will discuss how moving from opaque “black box” systems to transparent “glass box” designs is essential for legitimacy, accountability, and long-term success.

The conversation will examine how technical design choices, such as edge-based AI versus cloud-dependent systems, affect reliability, data protection, and public trust. Speakers will also address emerging challenges as automated and self-driving vehicles expand, including real-world examples that underscore the need for safety-first design focused on the most vulnerable road users.

Drawing on BusPatrol’s real-world experience deploying high-trust student safety systems on school buses, the panel will highlight how governance, transparency, and sustainable funding models can help communities deploy and maintain trusted safety infrastructure even amid constrained public budgets.

Organizer	Kate Spree BusPatrol, Canada
Moderator	Rick Birt BusPatrol, United States of America
Speaker	Karoon Monfared BusPatrol, United States of America Torine Creppy Safe Kids Worldwide, United States of America Adam Youssi Howard County Police Department, United States of America Mike Hanson Minnesota Department of Public Safety and Governors Highway Safety Association, United States of America

Special Interest Sessions (SIS)

SIS016

AI for Reliable Perception, Decision-Making and Control in CCAM

Oct 20(Tue) 11:00-12:30, Room 109, Convention Center

Session Description

AI systems in CCAM, and more specifically, those based on ML and DL allow vehicles to interpret complex real-world environments by processing data from multiple sources (such as cameras, lidars, radar). This real-time understanding of the vehicle’s surroundings includes the position, speed and predicted behaviours of other road users such as pedestrians and other VRUs and also other vehicles. It also provides the basis for the development of Digital Twins, which are able to use algorithms trained on millions of scenarios in order to ensure reliable object detection, path planning and control responses.

Safety has provided the basis, and most importantly, the core for arguments supporting the deployment of CCAM. What are the systems failures however and what has been achieved so far at the level of innovation and research? The topic will be discussed by European EU-funded project representatives at the setting of the ITS World Congress with the aim to exchange knowledge, achievements and best practices while seeking interoperable solutions to common challenges.

Organizer	Johanna Tzanidaki AYA Consulting BV, Netherlands
Moderator	Johanna Tzanidaki AYA Consulting BV, Netherlands
Speaker	Nikos Tsampieris ERTICO ITS EUROPE, Belgium Evangelia Portouli ICCS, Greece Antonios Lalas CERTH, Greece Tom Alkim MapTM, Netherlands Sihyoung Jurn LOTTE Innovate, Republic of Korea Carlos Perez Soriano Bamboos, Spain

Special Interest Sessions (SIS)

SIS017

Activities Toward ITS Deployment by Japanese Government

Oct 20(Tue) 11:00-12:30, Room 108, Convention Center

Session Description

Japanese government, including Cabinet Office, National Police Agency (NPA), Digital Agency, Ministry of Internal Affairs (MIA), Ministry of Economy, Trade and Industry (METI), and Ministry of Land, Infrastructure, Transport and Tourism (MLIT), has long been committed to promote ITS in Japan. As was held in Atlanta in August 2025, ITS Japan organizes a special interest session (SIS) to give one stop opportunity to the ITS World Congress participants for introducing and updating Japanese governmental activities.

Organizer	Takehiko Barada ITS Japan, Japan
Moderator	Takehiko Barada ITS Japan, Japan
Speaker	Masahiro Nakashima National Police Agency, Japan Tomoharu Fujisawa Digital Agency, Japan Takahiro Tanaka Ministry of Internal Affairs and Communications, Japan Yusuke Kusakari Ministry of Economy, Trade and Industry, Japan Masaya Iwamoto Road Bureau Ministry of Land Infrastructure Transport and Tourism, Japan Kenji Sato Logistics and Road Transport Bureau Ministry of Land Infrastructure Transport and Tourism, Japan Makoto Nakagawa Cabinet Office, Japan

Special Interest Sessions (SIS)

SIS018

Emerging Use Cases for Safety Using AI

Oct 19(Mon) 15:30-17:00, Room 305, Convention Center

Session Description

Highlight new use cases utilizing AI that enhances safety. Drones for bridge inspection. Remote technology for safety inspection. Predictive analytics for safety. Asset management.

Organizer	Sami Salinas ITS America, United States of America
Moderator	Bobby McCurdy ITS America, United States of America
Speaker	Erik Dietz PrePass Safety Alliance, United States of America Lisa Wilson UDOT, United States of America Kofi Wakhisi Atlanta Regional Commission, United States of America Eric Jacques Miovision, United States of America

Special Interest Sessions (SIS)

SIS019

**Driving Economic Growth Through Smart Mobility:
How Regions Worldwide Attract Investment, Innovation, and Talent**

Oct 20(Tue) 11:00-12:30, Room 307, Convention Center

Session Description

As intelligent transportation systems and advanced mobility technologies reshape economies worldwide, regions are increasingly competing and collaborating to attract investment, talent, and innovation. This session explores how smart mobility strategies can serve as powerful drivers of economic growth, global competitiveness, and inclusive development. Anchored by Michigan’s experience as a hub for mobility innovation, the session expands the conversation to a global stage, bringing together leaders from Asia-Pacific, Europe, and the Americas to examine how different regions align policy, infrastructure, and industry to create resilient, future-ready economies. Panelists will share how strategic investments in ITS, digital infrastructure, and public-private partnerships are transforming local and national markets while strengthening international collaboration.

The discussion will highlight comparative approaches to business attraction, workforce development, and technology deployment, with a focus on how regions balance rapid innovation with long-term sustainability, equity, and community impact. Special attention will be given to the role of intelligent transportation systems in enabling connected communities, improving quality of life, and positioning cities and regions as global leaders in mobility and infrastructure.

By examining real-world case studies and policy frameworks from multiple regions, this session offers a platform for shared learning and global alignment on how smart mobility can fuel economic vitality, strengthen international partnerships, and ensure that the benefits of innovation reach communities of all sizes.

Organizer	Michele Mueller Michigan Department of Transportation, United States of America
Moderator	Michele Mueller Michigan Department of Transportation, United States of America
Speaker	Sarah Tennant Michigan Economic Development Corporation, United States of America
	Michael Talbot UK Government, United Kingdom (Great Britain and Northern Ireland)
	Paoyi Tan Australian Capital Territory, Australia
	Akhilesh Srivastava ITS India Forum, India
	Janneke Van Der Zee ITS Canada, Canada

Special Interest Sessions (SIS)

SIS020

**Maintaining the Connected Road: AI-Driven
Infrastructure Health Monitoring for Sustainability and Safety**

Oct 20(Tue) 11:00-12:30, Room 306, Convention Center

Session Description

As transport networks evolve into increasingly connected and data-rich systems, infrastructure maintenance must transition from reactive, labour-intensive processes to proactive, AI-enabled strategies that enhance safety, sustainability, and operational efficiency. This session explores the emerging field of AI-driven infrastructure health monitoring, where machine learning, computer vision, and edge analytics transform diverse data sources—road-side sensors, vehicle fleets equipped with cameras and mobile devices, crowdsourced mobile data, and complementary imaging sources—into actionable insights on pavement condition, asset degradation, and environmental stressors. By fusing real-time detection with predictive modelling, these systems enable road operators to forecast maintenance needs, optimize repair schedules, reduce lifecycle costs, and minimize user disruption.

This interactive session brings together the latest industry services and public sector deployment experiences from Asia, Europe and the US across highways and urban road networks, highlighting practical implementations, performance, and governance. The session has short introductory presentations (25 min), then a moderated interactive panel discussion (45 min) and finally open floor online Q&A for the session audience (20 min).

Panellists will discuss how AI enhances environmental monitoring, accelerates emergency response planning, and integrates with broader sustainability goals such as emissions reduction and resilient network design. Discussions will also address challenges around data quality, privacy, interoperability with existing ITS frameworks, and equitable infrastructure investment. Participants will gain insight into the state of the practice, lessons learned from live deployments, and future directions for standards, policy, and collaboration that ensure connected roads are not only smarter but safer and more sustainable for all users.

Organizer	Ilkka Kotilainen Traficon Ltd, Finland
Moderator	Joost Vantomme ERTICO ITS Europe, Belgium
Speaker	Tim Chen TMS Technologies Ltd, Chinese-Taipei
	Martin Boehm AustriaTech, Australia
	Chao-Fu Yeh Transportation Bureau Taichung City Government, Chinese-Taipei
	Ilkka Kotilainen RoadMinded Systems with ScanwAi, Finland

Special Interest Sessions (SIS)

SIS021

Automotive Cybersecurity, Global Issues, Standards, Trends, and Challenges

Oct 20(Tue) 11:00-12:30, Room 305, Convention Center

Session Description

Cybersecurity is now one of the most serious operational risks automotive manufacturers and operators face, and the stakes are highest for transit networks, where a single compromised fleet endangers not one vehicle but an entire transport ecosystem. Connectivity is usually considered to be the enabler of traffic management, mobility services, and automated driving, but it is now just as much the backbone of vehicle cybersecurity: secure Over The Air software updates, continuous intrusion monitoring & detection, and full lifecycle risk management all depend on it. Connectivity isn't just a mobility feature anymore, it's a regulatory necessity.

UN Regulation No.155 (Cyber Security Management System) and No.156 (Software Update Management System) are the world's first internationally harmonized rules for vehicle cybersecurity and software updates, covering the full vehicle lifecycle from development to decommissioning. In the EU they are already law: mandatory for all new vehicle types since July 2022, enforced under the EU type-approval framework across all 27 Member States. Manufacturers must prove secure update integrity, authentication, OTA delivery, and continuous post-deployment monitoring to keep type approval. Vehicles that don't meet the regulations are already being shut out of the EU market. This special interest session brings together industry, academic, and research experts to tackle the regulatory interpretation, technical countermeasures, and continuous monitoring challenges of compliance — across private vehicles and public transit fleets alike — and giving connectivity the central place in ITS cybersecurity strategy, not just in traffic and mobility applications. Talks will cover practical CSMS/SUMS implementation, integration with type-approval processes, continuous security monitoring, and open research questions in threat analysis, risk assessment, and ongoing security assurance under UNECE WP.29.

Organizer	Youjun Choi Korea Automotive Technology Institute, Republic of Korea
Moderator	John McNicol Nova Modus, United Kingdom (Great Britain and Northern Ireland)
Speaker	Youjun Choi Korea Automotive Technology Institute, Republic of Korea Kiho Joo Autocrypt, Republic of Korea Saket Mohan Secure Elements, United Kingdom (Great Britain and Northern Ireland) Rob Potter Beam Connectivity, United Kingdom (Great Britain and Northern Ireland) Young-Jun Moon Korea Advanced Institute of Science and Technology, Republic of Korea

Special Interest Sessions (SIS)

SIS022

Where Automated Vehicles Add Most Value: Public Transport and Shared Services

Oct 20(Tue) 14:00-15:30, Room 107, Convention Center

Session Description

While robotaxis dominate much of the public discourse around automated vehicles, many transport authorities are increasingly recognising that the greatest public value from automation is likely to emerge when it is applied to shared services that strengthen public transport systems. These include first/last-mile feeders, precinct and corridor services, and higher-capacity bus, BRT and trackless tram operations in controlled or semi-controlled environments.

This Special Interest Session will examine where automated vehicles have the strongest potential to deliver tangible benefits such as improved ride comfort, safety, consistency, accessibility, service quality and network performance. In public-transport-integrated contexts, automation enables more predictable vehicle behaviour, smoother operation, and - critically - richer and more responsive services, such as on-demand or dynamically routed shuttles that can provide a significantly more attractive customer experience than infrequent fixed-route services.

Drawing on international experience from operators, policy leaders and host-country initiatives, the session will explore where shared automated services are already delivering value, what has constrained wider deployment, and how governance, standards, operating models and public acceptance influence outcomes. The discussion will contrast public-transport-integrated automation with private AV models, focusing on where automation genuinely improves everyday passenger experience, service usefulness and system performance at scale.

The session is intended to support cities and agencies seeking practical guidance on how automated vehicle technologies can be deployed to deliver meaningful, defensible improvements in public transport service outcomes.

Organizer	Andrew Mehaffey JYW Consulting, Australia
Moderator	Andrew Mehaffey JYW Consulting, Australia
Speaker	Dean Zabrieszach Ohmio Automotion, Australia Tom Alkim MAPtm, Netherlands Minsang Yoo Autonomous A2Z, Republic of Korea Steven Lui AECOM, Hong Kong, China Kyuok Kim Korea Transport Institute (KOTI), Republic of Korea Lian Duan Arup, Hong Kong, China

Special Interest Sessions (SIS)

SIS023

How Europe Moves From Pilots To Scale:Operating Models, Procurement Routes and PPPs For Shared Autonomous Transport Services

Oct 20(Tue) 14:00-15:30, Room 102, Convention Center

Session Description

Europe and Asia are moving from AV pilots to procurement and operating choices that determine whether shared autonomous services can become a reliable layer of public transport. But how to obtain real L4-tech (without onboard-operators), that runs the service when autonomous services enter daily operations?

This session offers a practical comparison of operating models, procurement routes, and PPP models for shared AV services. The speakers focus on what transport authorities are deciding now to move from pilots to scaled operations: who integrates the service into public transport, who owns assets, how remote-assistance is organised, and how to procure.

Christian moderates five case-based contributions. Vibeke shares Ruter’s next phase: ongoing market engagements, the planned 2026 dialogue conference, and what their autonomous on-demand economics work implies for viable operating and partnership models. Lars (Noord-Brabant) presents the province’s operating-model views and procurement limits, including what this means for governance choices and tender design at regional level. Dario (Leuven/Flanders) explains the oop model behind De Lijn’s Leuven WeRide service and the wider roadmap in Flanders. Christian adds how a Central Purchasing Body and a future framework agreement could enable other PTOs to procure AV jointly. Jeroen (TPG) brings lessons from running five on-demand shuttles and shares the PPP setup and readiness plan for a rural on-demand system expected to start by 2026. Guido (PAVE Europe) links with a global perspective on the private sector: supplier readiness, what EU projects are (and are not) solving, and how to bridge the gap between pilots and scale-up.

Organizer	Christian Riester Bax Innovation, Spain
Moderator	Christian Riester Bax Innovation, Spain
Speaker	Endre Angelvik Ruter AS, Norway Lars Meijer Province of Noord Brabant, Netherlands Donghyeong Seong Autonomous A2Z, Singapore Jeroen Beukers TPG, Switzerland

Special Interest Sessions (SIS)

SIS024

Smart Infrastructure, Soft Power: How ITS Shapes Global Influence and Economic Competitiveness

Oct 20(Tue) 14:00-15:30, Room 103, Convention Center

Session Description

As nations compete to export smart mobility solutions, Intelligent Transportation Systems (ITS) have become a powerful form of economic and diplomatic infrastructure. Beyond congestion reduction and safety outcomes, ITS now influences global standards, workforce development, trade relationships, and geopolitical positioning.

This session examines how governments and industry leaders leverage ITS as a tool of soft power—shaping international norms, strengthening economic competitiveness, and expanding influence through technology deployment and knowledge transfer. Panelists will explore how different regions approach ITS as an export strategy, how public–private partnerships accelerate global adoption, and how policy frameworks enable long-term competitiveness.

Using case examples from Asia-Pacific, Europe, and the Americas, the session will compare national strategies for scaling ITS innovation beyond domestic markets while balancing security, interoperability, and public trust.

Organizer	Michele Mueller Michigan Department of Transportation, United States of America
Moderator	Sarah Tennant Michigan Economic Development Corporation, United States of America
Speaker	Michael Talbot UK Government, United Kingdom (Great Britain and Northern Ireland) Ralf-Peter Schafer TomTom Gmbh, United States of America Michele Mueller Michigan Department of Transportation, United States of America

Special Interest Sessions (SIS)

SIS026

Providing Safe and Secure Mobility

Oct 20(Tue) 14:00-15:30, Room 109, Convention Center

Session Description

Providing safe and secure mobility is an urgent issue. In particular, there is strong potential to prevent traffic accidents by detecting accident risks in road traffic environments and delivering relevant information to diverse road users. However, significant challenges remain, including technological limitations, business feasibility, and the establishment of sustainable operational schemes.

Against this backdrop, recent advances in the miniaturization and cost reduction of LiDAR technologies offer substantial potential for both vehicle integration and infrastructure deployment. In parallel, compact mobility solutions capable of operating in diverse environments are emerging as key enablers of inclusive, safe, and secure mobility. These technological developments are expected to contribute to the realization of road traffic safety as an integrated social system.

In this context, Japan has also been advancing research and development in these areas. This session will introduce related research and development under the “Development of Smart Mobility Platform,” one of the subjects of the Cross-ministerial Strategic Innovation Promotion Program (SIP), a national research and development program in Japan. In addition, the session will discuss schemes for utilizing these technologies.

Speakers will include an engineer developing mobility platforms for proactive accident prevention, a researcher working on compact and low-cost LiDAR for diverse traffic environments, an engineer applying such data to next-generation mobility systems, and members of the International Advisory Board providing global perspectives on the Smart Mobility Platform initiative. They will discuss the future of information provision systems for safety and security in road transportation.

Organizer	Makoto Nakagawa Cabinet Office, Japan
Moderator	Satoshi Hiyama Oriental Consultants Co Ltd, Japan
Speaker	Tomoko Nishino Honda R&D Co., Ltd., Japan Keigo Hariya Kanazawa University, Japan Takeru Sakurai CYBERDYNE Inc., Japan C. Y. David Yang AAA Foundation for Traffic Safety, United States of America Yukiko Hatazaki Nippon Signal Co., Ltd, Japan

Special Interest Sessions (SIS)

SIS027

Key Success Factors for Multilane Free-Flow Electric Toll Collection System

Oct 20(Tue) 16:00-17:30, Room 107, Convention Center

Session Description

Many countries adopt multilane free-flow electronic toll collection systems for improving safety, smoothing traffic flow and reducing congestion. However, the success of these systems depends heavily on robust, forward-thinking legislation that enables best practices in implementation and operation. Too often, multilane free-flow is seen as a technology solution to a traffic engineer’s problem. Without a modernized legal framework and business model that addresses enforcement, public engagement, and data security, multilane free flow projects risk falling short of expectations, leading to revenue loss, public frustration, and even project failure.

This special session provides policy makers and industry leaders with a practical roadmap for crafting a business model and a legislative framework that not only enables multilane free flow success but also fosters public trust and maximizes the economic and social benefits of these vital infrastructure investments.

By highlighting successful business model and legislative frameworks from around the world, as well as lessons learned, this session will provide valuable insights for policy makers and industry stakeholders seeking to optimize the benefits of multilane free flow in the Asia Pacific region and other regions around the world.

Organizer	S.K. Jason Chang University of Taipei, Chinese-Taipei
Moderator	S.K. Jason Chang University of Taipei, Chinese-Taipei
Speaker	Kyoung-Ah Cho ITS Division, C-ITS Department of Korea Expressway Corporation, Republic of Korea Rick Wang FETC International Inc, Chinese-Taipei Tongkarn Kaewchalermtong ITS Thailand, Thailand Matt Milligan Milligan Partners, United States of America Silje Troseth Q-Free Australia, Australia

Special Interest Sessions (SIS)

SIS028

AI-Enabled Traffic Safety Management Systems

Oct 20(Tue) 14:00-15:30, Room 310, Convention Center

Session Description

Road traffic safety management systems in ISO 39001: (to be revised in 2026) demonstrates a best practice road traffic safety management in an organizational context. This standardization provides pointers for organizations wishing to use ISO 39001 to improve their road safety performance and a brief introduction to what is involved in developing and implementing the road traffic safety management system. Death and serious injury in road traffic crashes is a preventable problem imposing an unacceptably high burden on communities throughout the world. Thus UN Sustainable Development Goals for road safety agreed in 2015 facilitates the related organizations in the world to play a key role in improving road safety outcomes in low, middle and high-income countries. But the scope of this standardization adapted in a few countries including Italy, UK, Japan, China, Malaysia, Sweden, etc. for last 10 years does not include any technological aspect of intelligent transportation systems (ITS) so that recently the need for revision of ISO 39001 is now under discussion in ISO/TC 241 Road traffic safety management systems. This session discusses what artificial intelligent based mobility technology is to be incorporated with the revision of standardization and how it does in order for being applied as a physical AI-enabled road traffic safety management worldwide.

Organizer	Young-Jun Moon Korea Advanced Institute of Science and Technology, Republic of Korea
Moderator	Young-Jun Moon Korea Advanced Institute of Science and Technology, Republic of Korea
Speaker	Kyuok Kim KOTI, Republic of Korea Jung Rae Kim KoRoad, Republic of Korea Ming Sun RIOH, China Sangmin Park KOTI, Republic of Korea Hyoungsoo Kim KICT, Republic of Korea

Special Interest Sessions (SIS)

SIS029

The 6th AAM Safety and Certification Technology Seminar Series

Oct 20(Tue) 14:00-15:30, Room 305, Convention Center

Session Description

Advanced Air Mobility (AAM), including Urban Air Mobility (UAM), is emerging as a key component of future mobility, where air and ground transportation are increasingly interconnected. To enable the safe and sustainable deployment of AAM, the development of policies, institutional frameworks, governance, and supporting systems for safety and certification is essential. This session will share key research findings from AAM-related studies conducted to date and provide a comprehensive discussion of the major technical and institutional issues involved in establishing safety and certification frameworks for AAM. In line with the focus of the ITS World Congress, the session will also explore how digitalization and data-driven technologies can support safety management and the development of policy and certification frameworks throughout the AAM lifecycle. The session will examine the potential integration of AAM and ITS in the future mobility environment, including data-driven safety assessment and management using operational and system data, data-driven policy and decision-making, and digital approaches to certification and verification. By bringing together perspectives from government, industry, academia, and research institutions, the session aims to share research findings and identify future challenges and directions for the safe, responsible, and sustainable deployment of AAM.

Organizer	Yong Hoon Choi Korea Institute of Aviation Safety Technology, Republic of Korea
Moderator	Deasung Lee Korea Aerospace University, Republic of Korea
Speaker	Jea Woo Lee Konkuk University Republic of Korea Donghwan Yoon Korea Institute of Aviation Safety Technology, Republic of Korea Yeongmin Jo Hanseu University, Republic of Korea Seung Mok Jeon Korea Institute of Aviation Safety Technology, Republic of Korea

Special Interest Sessions (SIS)

SIS030

Harmonic Urban Mobility in Autonomous Driving Era

Oct 20(Tue) 14:00-15:30, Room 108, Convention Center

Session Description

As automated mobility services move from pilot projects to real-world deployment, cities are increasingly required to integrate these new transportation modes into existing urban environments in a safe, inclusive, and socially beneficial manner. At the same time, seamless access to mobility services—including first- and last-mile connectivity—remains a critical challenge to success.

In this context, a wide range of mobility modes—automated vehicles, conventional motorized traffic, pedestrians, cyclists, and emerging forms of micromobility—must coexist and interact within limited public space. Rather than prioritizing a single technology, urban mobility systems should strive in a harmonized way to realize harmonic urban mobility, in which diverse modes are balanced and mutually supportive.

In this session, experts from around the world will present their latest research findings, policy insights, and practical experiences related to mixed urban traffic environments in the autonomous driving era. And through discussion, the session will explore key bottlenecks, design challenges, and enabling factors for achieving harmonic urban mobility, addressing issues such as safety, accessibility, and public space allocation in increasingly complex urban traffic systems.

Organizer	Manabu Umeda The University of Tokyo, Japan
Moderator	Takashi Oguchi The University of Tokyo, Japan
Speaker	Kimihiko Nakano The University of Tokyo, Japan Emilie Blotiere Navya, France Seungjae Lee University of Seoul, Republic of Korea Manabu Umeda The University of Tokyo, Japan

Special Interest Sessions (SIS)

SIS031

Shaping the Next Generation of Connected & Automated Services for Automotive

Oct 20(Tue) 16:00-17:30, Room 102, Convention Center

Session Description

Over the past decade, connected and automated vehicles have been rapidly transitioning from experimental pilots to large-scale, commercially deployed services. This shift places increasing demands on connectivity and the technologies powering it. While 5G has established a strong foundation for vehicle connectivity, the automotive and telecom ecosystems are already shaping the next-generation connectivity technologies with 5G Advanced and future 6G systems to enable more advanced, data-driven, and automated mobility services.

The session will explore how new technology will shape future automotive connectivity requirements. We will examine the foreseen evolution of connectivity requirements and standardisation approaches for future enablers and services in light of the respective automotive and telecommunications development cycles.

Topics will include ultra-reliable and low-latency communications, enhanced positioning and sensing, network intelligence and automation, non-terrestrial networks, and advanced cloud-edge integration.

Key industry leaders will discuss the expected benefits of next-generation services, their potential deployment timeline, and the need to adapt to the current technology landscape and regulatory framework.

Organizer	Alessandro Bartolini 5G Automotive Association, Belgium
Moderator	Maxime Flament 5G Automotive Association, Belgium
Speaker	Tim Leinmueller DENSO, Germany Li Zhao CITCI, China Jyoti Sharma Verizon, United States of America Suman Sehra HARMAN Automotive, United States of America

Special Interest Sessions (SIS)

SIS032

Advancing Automation-Ready Corridors

Oct 21(Wed) 11:00-12:30, Room 107, Convention Center

Session Description

This session will feature international experts and decision-makers who will exchange updates, observations/lessons learned, and future-facing perspectives pertaining to efforts to advance truck automation and discuss next steps and needs pertaining to making corridors automation-ready.

Organizer	Sara Davidson U.S. Department of Transportation (U.S. DOT), United States of America
Moderator	Laura Chace ITS America, United States of America
Speaker	Seval Oz U.S. Department of Transportation (U.S. DOT), United States of America Marc Williams Texas Department of Transportation (TxDOT), United States of America Jyoti Sharma Verizon, United States of America Jaekyoung Roh Mars Auto, Republic of Korea

Special Interest Sessions (SIS)

SIS034

Behavioural Change for Sustainable Transport

Oct 20(Tue) 16:00-17:30, Room 109, Convention Center

Session Description

Decarbonising transport solely by replacing internal combustion engine vehicles with low or zero emission vehicles will not address congestion, inequity, or many liveability challenges. Shifting trips to public transport and active modes offers greater short- and long-term benefits for cities and communities. This session investigates how policy, pricing and infrastructure can make that shift practical and attractive across diverse contexts. It will identify the attitudes, life events and workplace or land use decisions that open “windows of change” for individuals and households to adopt more sustainable travel. Drawing on behavioural evidence, the panel will discuss targeted interventions for governments, operators and other organisations to accelerate mode shift, rather than simply greening the existing car fleet. It will also examine economic impacts, including indicative cost–benefit assessments of key initiatives, to support robust, evidence-based decisions on the most effective pathways to a truly sustainable transport system.

Organizer	Stacey Ryan ITS Australia, Australia
Moderator	Stacey Ryan ITS Australia, Australia
Speaker	Abhishek Srivastava TomTom, Netherlands Carol Schweiger Schweiger Consulting LLC, United States of America Ralf-Peter Schaefer TomTom, Australia Sarah Tennant ITS NZ, United States of America Ilkka Kotilainen RoadMinded Systems, Finland

Special Interest Sessions (SIS)

SIS035

Advancing ITS Facility Management: Research to Practice

Oct 20(Tue) 16:00-17:30, Room 108, Convention Center

Session Description

ITS facilities serve as critical assets that underpin the safety and convenience of road users, and their value can only be realized through appropriate management practices. As several decades have passed since many ITS facilities began operation, their management environment is rapidly evolving, driven by rising maintenance costs, shortages of skilled personnel, aging infrastructure, and changing performance and functional requirements associated with automated and connected vehicles. In response to these emerging challenges, this session presents the latest implementations and research on ITS facility management, featuring speakers from industry, government, and academia in Japan and Korea. The program includes: an adaptive failure-prediction method that leverages real-time monitoring information, developed at Tohoku University; the end-to-end development and deployment process of inspection and intervention simulation models, along with initiatives to rationalize decision making, from the West Nippon Expressway Group; and advanced data-processing and AI applications currently implemented by the Korea Expressway Corporation. A panel discussion will build on these presentations to explore what capabilities and management frameworks ITS facilities must embody to support a sustainable mobility system. By articulating a future vision for ITS facility management, this session aims to attract broad and global interest from participants across the ITS World Congress, reflecting the foundational role of ITS facility management in sustaining next-generation mobility.

Organizer	Kenji Fujimaru West Nippon Expressway Facilities Co Ltd, Japan
Moderator	Daijiro Mizutani Tohoku University, Japan
Speaker	Kyung-Bo Lee Korea Expressway Corporation, Republic of Korea Shota Koyama West Nippon Expressway Co Ltd, Japan Daiki Minamino West Nippon Expressway Engineering Kansai Co Ltd, Japan Suguru Kochi West Nippon Expressway Facilities Co Ltd, Japan Daijiro Mizutani Tohoku University, Japan

Special Interest Sessions (SIS)

SIS036

The Evolution of Next-Generation Navigation

Oct 20(Tue) 16:00-17:30, Room 310, Convention Center

Session Description

The future of vehicle navigation is rapidly shifting from a mere route-finding tool to an interactive personal assistant that intuitively reflects driver needs in real-time. Advances in AI—specifically the implementation of Large Language Models (LLMs) and multi-agent systems—have enabled a revolutionary leap in navigation architecture. This session introduces the core technologies driving this evolution, moving beyond simple voice commands toward sophisticated natural language interactions. First, we introduce “G2X (GIS to Everything),” a framework that leverages real-time road network data—including traffic, accidents, weather, and destination congestion—to provide tailored route intelligence and risk assessment. Furthermore, we present the vision of “All-in-Navigation,” where integrated specialized agents act as a lifestyle concierge. This system manages complex tasks such as personalized recommendations, reservations, schedule synchronization, and seamless in-vehicle shopping. Additionally, we highlight the synergy between “vision-based lane-level positioning” for ultra-precise situational awareness in complex urban environments and high-definition (HD) maps. We will also delve into “AI-driven UX development strategies” focused on intuitive interface designs that manage multiple AI agents while minimizing cognitive load for the driver. In conclusion, this session outlines the trajectory of next-generation navigation as an intelligent platform that supports a user’s entire lifestyle beyond the mobility experience. We will discuss how this technological shift will transform user experience, safety, and the automotive industry at large.

Organizer	Byoungyong Ryu Hyundai Autoever, Republic of Korea
Moderator	Jisup Shim Hannam University, Republic of Korea
Speaker	Younghurck Cha Hyundai Autoever, Republic of Korea Yewon Seol Hyundai Autoever, Republic of Korea Jaesung Kim Hyundai Autoever, Republic of Korea Dongchao Xu ThunderX, China Jisup Shim Hannam University, Republic of Korea

Special Interest Sessions (SIS)

SIS037

AV Global Cities Scan – Comparative AV Policy Frameworks and Experience

Oct 20(Tue) 16:00-17:30, Room 305, Convention Center

Session Description

AV passenger services deployment experience in San Francisco, New York, London and Singapore vary by their regulatory authorities, legal frameworks and AV permitting and deployment status. AV policies in these cities are guided by US, UK and Singapore/Global national - and in some cases state/local policies - and characterized by different local contexts and complex operational environments. The aim of this session is to provide a scan of AV regulatory policies and deployment processes across the comparative urban AV contexts of each of these local settings, and providing insights and guidance for aspiring cities, states and nations. A secondary objective of this session is to help build a network of practitioners across a global AV cities network.

The panel and topic will be introduced by the Moderator who will lay out the varying perspectives and stages of AV testing and deployment that are represented by the panelists (5 minutes). Following this, the four speakers will present their distinct perspectives on the AV permitting and deployment experience in their cities across the US, Europe and Singapore/globally. An interactive Q&A discussion between the moderator and panelists will follow the panel discussion (25 minutes) and finally the moderator will facilitate audience Q&A with the panel to close out the 90 minute session.

Organizer	Tilly Chang San Francisco County Transportation Authority, United States of America
Moderator	Sarah Kaufman NYU Rudin Center, United States of America
Speaker	Isabel Capp UK DOT, United Kingdom (Great Britain and Northern Ireland) Tilly Chang San Francisco County Transportation Authority, United States of America Nicholas Tey WeRide, Singapore

Special Interest Sessions (SIS)

SIS038

Artificial Intelligence Transforming Transportation Management

Oct 20(Tue) 16:00-17:30, Room 103, Convention Center

Session Description

This session will feature international experts and decision-makers who will discuss developments, opportunities, needs (related to data validation and more), and next steps pertaining to artificial intelligence (AI) and the potential for AI to transform transportation management.

Organizer	Sara Davidson U.S. Department of Transportation, United States of America
Moderator	Eric Jacques Miovision, Canada
Speaker	Brian Cronin U.S. Department of Transportation (U.S. DOT), United States of America Michele Mueller Michigan Department of Transportation (MDOT), United States of America Erik Dietz PrePass Safety Alliance, United States of America Nayoon Heo Ministry of Land, Infrastructure and Transport (MOLIT), Republic of Korea

Special Interest Sessions (SIS)

SIS039

Co-Creating Inclusive and Climate-Neutral Urban Mobility through ITS and Data-Driven Interventions

Oct 21(Wed) 11:00-12:30, Room 102, Convention Center

Session Description

Cities around the world are working to deliver climate-neutral mobility systems that are not only efficient, but also safe, accessible, and socially inclusive. Achieving this transition requires integrated approaches that combine intelligent transport systems (ITS), urban space redesign, shared and on-demand mobility services, and participatory governance, all underpinned by high-quality data and meaningful stakeholder engagement.

This special session will explore co-created and data-driven urban mobility interventions that advance sustainability while improving equity, safety, and the quality of public space. It will showcase solutions such as smart enforcement and traffic management tools, dynamic and flexible street-space allocation, shared mobility services, and the integration of active and low-emission transport modes. Attention will be given to designing and deploying these interventions in ways that respond to the needs of diverse users, including people vulnerable to mobility and digital exclusion. The session, inspired by the ELABORATOR EU-funded project, will highlight how real-world mobility data, user feedback, and advanced digital tools can support evidence-based planning, impact evaluation, and cross-city learning.

By bringing together perspectives from research, cities, industry, and civil society, this session aims to deliver practical insights and transferable lessons for scaling up people-centered, inclusive, and climate-neutral urban mobility solutions.

Organizer	Giannis Karaseitanidis Institute of Communication and Computer Systems ICCS, Greece
Moderator	Evangelia Latsa Institute of Communication and Computer Systems ICCS, Greece
Speaker	Carol Schweiger Schweiger Consulting LLC, United States of America Francois Fischer Smart Travel solutions Huawei Technologies, China Niki Georgiou ICCS, Greece

Special Interest Sessions (SIS)

SIS040

Navigating the Future: AI-Enabled Traffic Management

Oct 19(Mon) 15:30-17:00, Room 307, Convention Center

Session Description

Artificial intelligence is transforming how transportation agencies monitor, manage, and optimize traffic operations. This session will explore practical applications and emerging opportunities for AI-enabled traffic management across urban, regional, and freeway networks. Speakers will highlight real-world deployments using technologies such as computer vision, predictive analytics, machine learning, and large language models to improve traffic flow, incident response, and traveler information. The discussion will also address key implementation challenges, including data quality, legacy system integration, cybersecurity, governance, workforce readiness, and public trust. Attendees will gain practical insights into current best practices, scalable deployment strategies, and the future of AI in intelligent transportation systems and traffic operations.

Organizer	Steven Dellenback Southwest Research Institute, United States of America
Moderator	Kevin Miller Southwest Research Institute, United States of America
Speaker	Josh Johnson Southwest Research Institute, United States of America Michele Mueller Michigan DOT, United States of America Jeff Siegel HNTB, United States of America Kevin Reid Beep, United States of America

Special Interest Sessions (SIS)

SIS041

The Journey to Direct V2X Deployment: International Perspectives from Diverse Stakeholders

Oct 21 (Wed) 11:00-12:30, Room 104, Convention Center

Session Description

The safety and mobility aspirations V2V and V2I communications have been discussed by technologists and policymakers for more than two decades. Over that time, some stakeholders – most notably, Volkswagen Group – have taken deployment action. In contrast, action from other stakeholders has generally been relatively slow. In recent years, however, discussion and deployments have accelerated in all global regions.

This panel of experts, each of whom is very aware of and key participants in V2X deployment in different regions, will discuss the state of play in important regions. Given that this World Congress is in Asia, in addition to covering Europe and North America, the very different dynamic in three countries – China, India and Korea – will be described by experts from those countries. Moreover, for each region, the panel will shed light to not only progress but to impediments and accelerators, and what regions can learn from one another to foster global implementation. The panel will recommend and prognosticate what can happen next to realize the lofty safety and mobility dreams that fuel this journey to deployment.

Organizer	Jim Misener WSP, United States of America
Moderator	Jim Misener WSP, United States of America
Speaker	Arik Almkermann Volkswagen Group, Germany Akhilesh Srivastava ITS India Forum, India Li Zhao China Information and Communications Technology Group, China Jane Lee Ettifos, Republic of Korea

Special Interest Sessions (SIS)

SIS042

From Pilots to Practice: Realising Everyday Benefits from C-ITS at Scale

Oct 21 (Wed) 11:00-12:30, Room 109, Convention Center

Session Description

Over the past decade, Cooperative Intelligent Transport Systems (C-ITS) have progressed from research and pilots to increasingly large deployments in several regions. Millions of vehicles are now equipped, roadside infrastructure has been installed at scale, and standards frameworks are largely mature. Despite this progress, many jurisdictions continue to report limited, visible “everyday” benefits for road users, with activity often remaining focused on trials, roadmaps and future promise rather than operational outcomes.

This Special Interest Session will explore why translating C-ITS capability into routine, defensible benefits at scale has proven difficult, and what distinguishes the few large deployments that have progressed beyond pilot mode. Drawing on experience from Australia, Europe, the United States and Korea, the session will examine institutional, governance, operational and business factors that influence whether C-ITS delivers measurable value in daily operations.

Topics will include the role of national coordination, standards and policy settings; the challenges of benefit attribution and public visibility; and the differences between technical readiness and operational acceptance. The discussion will focus on practical lessons learned, rather than technology advocacy, and will consider what needs to change for C-ITS to either scale meaningfully — or be reassessed.

The session is intended as an honest, experience-led discussion for road authorities, operators and policy makers seeking clarity on when and how C-ITS delivers real-world value.

Organizer	Andrew Mehaffey JYW Consulting, Australia
Moderator	Andrew Mehaffey JYW Consulting, Australia
Speaker	Ada Lin Toyota Australia, Australia Henry Wu JYW Consulting, Australia Paul Gray Cohda Wireless, Australia Michael Brown Southwest Research Institute, United States of America

Special Interest Sessions (SIS)

SIS043

Road Safety across Regions: Worldwide Data-Driven Approaches

Oct 21(Wed) 11:00-12:30, Room 108, Convention Center

Session Description

Road safety remains one of the most urgent and universal challenges across global transport systems. Yet despite a shared objective of reducing fatalities and serious injuries, the pathways to achieving safer mobility differ widely between regions due to variations in infrastructure maturity, policy environments, digital readiness, and cultural behavior. This Special Interest Session brings together perspectives from Europe, Asia, and North America to highlight practical, scalable, and data-driven approaches that are shaping the future of road safety worldwide.

The session will showcase regional use cases illustrating how intelligent transport systems — including AI-driven safety prediction, connected vehicle technologies, data-centric infrastructure management, and human-centric design — are being deployed to protect all road users, with particular attention to pedestrians, cyclists, and other vulnerable groups. Speakers will explore how local constraints and opportunities influence implementation, and how lessons learned in one region can accelerate progress in another. Through comparative insights and cross-regional dialogue, the session will reveal common enablers for success: harmonized safety standards, effective use of real-time data, integration of C-ITS and V2X communication, and governance models that incentivize proactive safety investments. Aligned with the 2026 ITS World Congress theme “Beyond Mobility, Connected World,” this session will demonstrate how global collaboration and evidence- based practices can drive meaningful reductions in road trauma and support the transition toward safer, more resilient, and more inclusive mobility ecosystems.

Organizer	Gonzalo Alcaraz International Road Federation, Switzerland
Moderator	Gonzalo Alcaraz International Road Federation, Switzerland
Speaker	Alice Yiu IRF, Hong Kong, China
	C. Y. David Yang AAA Foundation for Traffic Safety, United States of America
	Greg Smith iRAP, Australia
	Kun-Feng Ken Wu National Yang Ming Chiao Tung University, Chinese-Taipei

Special Interest Sessions (SIS)

SIS044

Beyond Sensing: AI-Powered Multi-Sensor Intelligence for Next-Generation ITS

Oct 21(Wed) 11:00-12:30, Room 310, Convention Center

Session Description

This session explores the role of AI and heterogeneous sensor technologies in enabling reliable perception across diverse ODD environments. It will feature Korea University’s research on AI sensor networks, Vueron Technology’s LiDAR-based AI applications, and bitsensing’s AI-powered radar sensing technologies, highlighting their potential for next-generation perception systems.

Organizer	Jae-Eun Lee bitsensing Inc., Republic of Korea
Moderator	Chulhee Lim bitsensing Inc., Republic of Korea
Speaker	Seonyoung Lee bitsensing Inc., Republic of Korea
	Dong-Hee Baek Korea Advanced Institute of Science and Technology, Republic of Korea
	Jaekwang Kim Vueron Technology, Republic of Korea

Special Interest Sessions (SIS)

SIS045 Positioning, Navigation and Timing (PNT) Services Standardization

Oct 21(Wed) 11:00-12:30, Room 305, Convention Center

Session Description

PNT services which are a largely invisible utility for human and nature, technology and infrastructure, and arts and industries, including peoples with nomadic and mobile devices, all modes of transportation, communications infrastructure, the electrical power grid, and emergency response. In order for all moving objects in the globe (approx. 10 billion units) to be essential to modern life, enabling a wide array of applications that improve safety, efficiency, and economic performance, the focus is shifting to PNT services - an area that has not yet been considered in detail in standardization in ISO. 1. This session discusses how the PNT services are to be applied in entire ITS areas not only for monitoring the moving objects to ensure they are safe, efficient and environmentally sustainable during the process of moving from the origin (birth) to destination (death), but also for certification of moving records including life records (living things), aging records (non-living things), mobile (moving) records (by walking, driving, flying, delivering, etc.), eco-records (mileage, CO2 footprint), etc.

Organizer **Young-Jun Moon**
KAIST, Republic of Korea

Moderator **Dean Zabrieszach**
HMI, Australia

Speaker **Sung Young Jung**
KAIST, Republic of Korea
Ryan Ryu
ETRI, Republic of Korea
Young-Jun Moon
KAIST, Republic of Korea
Jeong Dan Choi
ETRI, Republic of Korea

Special Interest Sessions (SIS)

SIS046 Neurocognitive Mechanism for Safe Mobility in Aging Societies

Oct 21(Wed) 14:00-15:30, Room 107, Convention Center

Session Description

Population ageing is transforming mobility systems worldwide, creating urgent challenges for traffic safety, injury prevention, and sustainable transportation. Conventional mobility safety frameworks have primarily focused on external factors such as infrastructure, vehicle systems, and driver behavior, while biological heterogeneity among older adults remains underexplored. Recent advances in neuroimaging research suggest that subclinical neurocognitive changes, including white matter hyperintensities (WMH) and brain atrophy (BA), may influence hazard perception, visuospatial processing, attention, and real-world driving performance even in cognitively normal individuals. These findings support an emerging framework in which mobility safety reflects an interaction between environmental demand and neurocognitive resilience. This Special Interest Session (SIS) will explore the role of neurocognitive biomarkers in future mobility systems within aging societies. The session will integrate perspectives from brain MRI research, artificial intelligence-based risk prediction, real-world driving assessment, and human-centered mobility design. Speakers from Japan and Korea will discuss how neuroimaging, digital biomarkers, and behavioral data may contribute to safer and more adaptive mobility systems for older adults. Topics include: • Brain MRI biomarkers and driving safety • AI-based prediction of mobility-related risk • White matter lesions, brain atrophy, and aging • Real-world driving behavior and ecological assessment • Human-centered ITS and neurocognitive resilience • Ethical and societal implications of biomarker-informed mobility systems The session aims to foster interdisciplinary collaboration between transportation engineering, neuroscience, geriatrics, artificial intelligence, and public health to advance safe mobility strategies in rapidly aging societies.

Organizer **Kaechang Park**
Advanced Telecommunications Research Institute International, Japan

Moderator **Yasuhiko Kumagai**
Kochi University of Technology, Japan

Speaker **Kaechang Park**
Advanced Telecommunications Research Institute International, Japan
Masahiro Tada
Kansai University, Japan
Kibum Kim
Hanyang University, Republic of Korea
Sooncheon Hwang
University of Seoul, Republic of Korea

Special Interest Sessions (SIS)

SIS047

Orchestrating Multimodal Traffic in the CCAM Era through AI-Driven and Cooperative ITS

Oct 21(Wed) 14:00-15:30, Room 102, Convention Center

Session Description

Connected, Cooperative, and Automated Mobility (CCAM) is transforming transport systems, enabling new levels of automation, connectivity, and data exchange. Realising its full potential requires a paradigm shift in traffic management, from siloed, mode-specific solutions to integrated, cooperative, and multimodal approaches capable of coordinating automated and conventional vehicles, public transport, cycling, micromobility, and shared mobility services.

This special interest session, grounded in the vision and outcomes of the CHORUS EU project, will explore AI-driven and data-centric traffic management solutions for complex, multimodal, and mixed-traffic environments. It will examine how real-time data sharing, predictive analytics, and cooperative ITS can support safer interactions between automated systems and human road users, while improving traffic efficiency, reducing congestion, and enhancing network resilience.

The session will showcase practical approaches to multimodal traffic orchestration, including real-time traveler information services, intelligent decision-support tools for traffic operators, and adaptive traffic control strategies across modes. Attention will be given to enabling cooperation between infrastructure, vehicles, and users within CCAM ecosystems.

Key challenges and enablers will also be discussed, such as data governance and interoperability, system integration across transport modes, regulatory and institutional alignment, and cross-sector collaboration between cities, transport authorities, industry, and technology providers. By presenting real-world experiences and transferable lessons from CHORUS and related initiatives, this session aims to support cities and regions in deploying safe, efficient, and sustainable CCAM-enabled traffic management solutions.

Organizer	Giannis Karaseitanidis Institute of Communication and Computer Systems ICCS, Greece
Moderator	Giannis Karaseitanidis Institute of Communication and Computer Systems ICCS, Greece
Speaker	Johanna Tzanidaki AYA Consulting, Netherlands
	Nikolaos Tsampieris ERTICO, Belgium
	Evangelia Portouli Institute of Communication and Computer Systems ICCS, Greece
	Francois Fischer Smart Travel solutions Huawei Technologies, China

Special Interest Sessions (SIS)

SIS048

Using Technology to Alter Driver Behavior

Oct 22(Thu) 16:00-17:30, Room 108, Convention Center

Session Description

How do we start to think about the ability of AVs to regulate behavior, such as regulating speed and improving systems operations?

How can we work collaboratively toward shaped system goals?

Organizer	Sami Salinas ITS America, United States of America
Moderator	Jeff Siegel HNTB, United States of America
Speaker	Garrett Eucalitto Connecticut DOT, United States of America
	Kevin Reid Beep, United States of America
	Tilly Chang San Francisco County Transportation Authority, United States of America
	Eric Jacques Senior Director, International Business Development, United States of America

Special Interest Sessions (SIS)

SIS049

From Consumer Education to Trust to Acceptance

Oct 21 (Wed) 14:00-15:30, Room 104, Convention Center

Session Description

How do we ensure consumer trust keeps pace with technology? While smart city technologies promise efficiency and safety, public trust remains one of the most critical—and fragile—factors in ITS deployment success. Concerns around surveillance, data use, algorithmic bias, and decision transparency have led to resistance even in technically sound projects. This session examines how cities and regions rebuild and sustain public trust in ITS through transparent governance, ethical data practices, and meaningful community engagement. Panelists will explore why some ITS projects face backlash while others gain public support, emphasizing the social and cultural dimensions of technology adoption. Through cross-regional case studies, the session will compare trust-building strategies in Asia-Pacific, Europe, and the Americas, highlighting how cultural expectations shape public acceptance.

Organizer	Virginia Lingham WSP USA, United States of America
Moderator	Virginia Lingham WSP USA, United States of America
Speaker	Tilly Chang San Francisco County Transportation Authority (SFCTA), United States of America Russell McMurry Georgia Department of Transportation, United States of America Michele Mueller Michigan Department of Transportation, United States of America

Special Interest Sessions (SIS)

SIS050

Future Directions for Road–Vehicle Cooperative Roadway Lighting
Balancing Energy Efficiency and Safety

Oct 21 (Wed) 14:00-15:30, Room 109, Convention Center

Session Description

This session will discuss future directions for road–vehicle cooperative roadway lighting that aims to balance energy efficiency and safety. We focus on adaptive lighting concepts for roads and tunnels, where luminance levels, light distribution, and colour temperature are dynamically controlled according to traffic conditions, weather, and the presence of pedestrians, cyclists, and other road users. By linking roadside infrastructure with connected and automated vehicles, cooperative lighting can prioritise illumination in high-risk areas, improve visibility in complex environments such as tunnel portals, and reduce unnecessary lighting during low-demand periods. The session will feature presentations and discussion on field trials, simulations, and evaluation methods that quantitatively assess the safety impacts, visual performance, and energy-saving effects of adaptive lighting. We also welcome contributions on control strategies, sensing and communication architectures, and integration with existing ITS and asset-management systems. Finally, the session will explore a future vision in which cooperative adaptive lighting evolves into a core platform supporting sustainable, human-centred mobility across urban streets, highways, and tunnel networks.

Organizer	Atsushi Yao Ministry of Land Infrastructure Transport Tourism Government of Japan, Japan
Moderator	Toru Hagiwara Hokkaido University, Japan
Speaker	Thomas Baenziger EECONSULTING AG, Switzerland Youngho Baik ECOLANT CoLtd, Republic of Korea Koji Iwata Ministry of Land Infrastructure Transport and Tourism, Japan Wataru Kobayashi Tokyo Denki University, Japan

Special Interest Sessions (SIS)

SIS051

Citiverse: Global Data Space Interoperability for Sustainable Travel and Mobility Focus on “Data Space Challenges: Data Sharing for Efficient Mobility & Logistics”

Oct 21(Wed) 14:00-15:30, Room 108, Convention Center

Session Description

Efficient information exchange in passenger mobility and logistics remains a global challenge, particularly in relation to data space interoperability. For CitiVerse cities—where urban mobility, logistics, CCAM, and digital infrastructure converge—tackling these challenges is key to advancing seamless, integrated transport systems. Digitalisation has brought forward intelligent platforms that streamline communication across the supply chain, using single-window systems to consolidate real-time import and export data. In this context, e-commerce mechanisms foster healthy competition among mobility and logistics service providers, delivering benefits to both passengers and freight operators. However, the path toward digital transformation is complex. The rapid pace of digitization, the emergence of new market entrants, and the shift toward platform-based business models—such as those enabled by the European Mobility Data Space, CitiVerse, 3DxVERSE, BoostEDIC, deployEMDS, eFTI and the evolving Galileo ecosystem—demand robust, federated governance and data infrastructure. For CityVerse cities in particular, establishing these governance frameworks is crucial. They enable secure, collaborative Business-to-Business (B2B) and Business-to-Administration (B2A) data exchange among stakeholders in transport and logistics. This AI-driven ecosystem approach supports the interoperability of digital platforms, fostering more coherent services across the mobility and logistics landscape, and ultimately driving smarter, more sustainable urban transport systems.

Organizer	Eusebiu Catana ERTICO ITS Europe, Belgium
Moderator	Nikolaos Tsampieris ERTICO ITS Europe, Belgium
Speaker	Ignatio Magallon BAX Company, Spain You-Jun Choi KATECH, Republic of Korea Harm Jan Arendshorst iLabs, Netherlands Mihail Gaianu Continental-Aumovio, Romania

Special Interest Sessions (SIS)

SIS052

The Intelligent Mobility Pipeline: From Multi-Source Data Fusion to High-Resolution Urban Services and Societal Value

Oct 21(Wed) 14:00-15:30, Room 310, Convention Center

Session Description

To realize the vision of a “Connected World,” modern ITS must evolve into a seamless “Intelligence Pipeline” that transforms raw data into meaningful human experiences. This session follows that value chain end to end, beginning with the integrated ingestion of public C-ITS feeds (traffic signals, CCTV), large-scale mobile GNSS traces, and proprietary high-resolution sensor data such as camera imagery and LiDAR point clouds — all served through an ultra-low-latency streaming architecture that delivers real-time predictions. The discussion then details 3D scene understanding, where these diverse datasets are fused to reconstruct physical space with high precision. Moving beyond reconstruction, advanced AI models recognize and reason about complex traffic situations and their context. This spatial foundation enables the deployment of intelligent mobility services that prioritize user safety and convenience. We demonstrate real-world applications such as real-time incident detection in tunnels through the fusion of GNSS and CCTV data with proactive safety alerts, optimal entrance and exit recommendations for large-scale POIs, and the prediction of vehicle entry and exit wait times. Furthermore, the session extends this data intelligence to regional and societal domains. Through macroscopic analysis of platform service data spanning taxi, bike sharing, and navigation services, academic and industry experts evaluate the measurable social impacts of these services, including urban travel efficiency, congestion relief, carbon footprint reduction, and improved mobility access and equity. By translating engineering innovation into societal value, this session offers a scalable roadmap for the future of connected urban ecosystems, aligning with the “Beyond Mobility” vision of the 2026 Gangneung ITS World Congress.

Organizer	Sangjun Lee Kakao Mobility, Republic of Korea
Moderator	Jungmin Kim Kakao Mobility, Republic of Korea
Speaker	Junghun Suh Kakao Mobility, Republic of Korea Sangjun Lee Kakao Mobility, Republic of Korea Jinhee Kim Yonsei University, Republic of Korea Yena Bae Kakao Mobility, Republic of Korea

Special Interest Sessions (SIS)

SIS053

Developing a Korean ODA Model to Promote Intelligent Transport Systems (ITS) Projects in Developing Countries

Oct 23(Fri) 11:00-12:30, Room 107, Convention Center

Session Description

In recent years, the Korean government has significantly increased its Official Development Assistance (ODA) budget to share Korea’s development experience with developing countries and to generate tangible benefits through a wide range of grant and concessional aid programs. In particular, leveraging its image as a global IT powerhouse, Korea has been actively investing in the development of digital infrastructure—such as smart mobility in cities and Intelligent Transport Systems (ITS)—as well as in the deployment of advanced traffic information and management systems in recipient countries.

This session is proposed as an opportunity to review the achievements of Korea’s ODA support to date and, based on these experiences, to explore concrete strategies for implementing more effective and locally tailored assistance programs in the future. To this end, representatives from key institutions overseeing ITS-related ODA projects, including KOICA, KEXIM, KDI, KRIHS, KOTI, and KIND, will be invited to present their perspectives, alongside discussants from recipient countries. Through these presentations and discussions, the session aims to share current status and future visions, and to jointly identify practical solutions to key challenges.

Organizer	Sang Keon Lee ITS Korea, Republic of Korea
Moderator	Sang Keon Lee ITS Korea, Republic of Korea
Speaker	Seol Ah Bang KRIHS, Republic of Korea TBD KOICA, Republic of Korea Chanko Getachew Ministry of Finance, Ethiopia

Special Interest Sessions (SIS)

SIS055

Accessibility-Compliant Design, Human Machine Interaction and Digital Inclusion in the Era of Autonomous Vehicles

Oct 21(Wed) 16:00-17:30, Room 102, Convention Center

Session Description

As automated and driverless transport systems are progressively introduced into public and shared mobility services, the interaction between passengers and mobility ecosystems changes fundamentally. Inabilities to use digital tools (digital illiteracy) and the absence of a human driver removes the operational driving role but also guidance, reassurance, accessibility assistance and social mediation traditionally provided during travel. This creates barriers to trust, usability and accessibility, particularly for elderly passengers, persons with disabilities and digitally inexperienced users, ultimately limiting acceptance of automated mobility. Existing AV solutions primarily address navigation accuracy and operational safety while assuming users can understand system behaviour and interact effectively with digital interfaces. Conventional vehicle HMI and infotainment assistants rely on explicit commands and static interaction logic, lacking awareness of passenger condition, context and intention. As a result, passengers experience uncertainty, limited situational awareness and reduced confidence, especially during onboarding, unexpected manoeuvres or abnormal situations.

This session analyses how automated mobility requires interfaces to inform/book trips and vehicles capable of perceiving occupants and environment, interpreting passenger state and interaction intent, explaining system behaviour and adapting communication and assistance to diverse user capabilities providing accessibility, inclusiveness, and privacy. It presents human-centred services built on AI-driven multimodal perception and cooperative situational awareness. The discussion demonstrates AI based behaviour and incident understanding, privacy-preserving learning and edge-deployed conversational assistants. It showcases explainable interaction mechanisms, adaptive personalization of cabin responses and inclusive information, together with validation methodologies based on simulation, digital twins and real-world pilot deployment to support socially acceptable automated transport facilitating onboarding.

Organizer	Antonios Lalas Centre for Research and Technology Hellas, Greece
Moderator	Youjun Choi Korea Automotive Technology Institute, Republic of Korea
Speaker	Christos Panayiotou University of Cyprus, Cyprus You-Jun Choi Korea Automotive Technology Institute, Republic of Korea Vasilis Sourlas Institute of Communication and Computer Systems, Greece Nikos Tsampieris ERTICO ITS EUROPE, Belgium Guy Fournier Pforzheim University, Germany Niels Alexander Nijdam University of Geneva, Switzerland

Special Interest Sessions (SIS)

SIS056

Titans: Canadian Innovation Defining the Future of Smart Mobility

Oct 21 (Wed) 16:00-17:30, Room 103, Convention Center

Session Description

Project Titans explores a new model for smart mobility collaboration, where immersive simulation, multimodal data integration, and shared digital environments enable cities to plan and operate more effectively. Co-developed with the City of Montréal and supported by partners across Canada and internationally, the project demonstrates how cross-sector cooperation can accelerate innovation.

Titans functions as a living digital twin that unifies data, models, and expertise across transport modes. By integrating traffic modeling, simulation, and immersive VR, it allows agencies to test ideas, compare scenarios, and align decisions with real-world conditions.

The initiative is built on a collaborative network of cities and transit authorities, including Montréal, Toronto, and Halifax. This coalition continuously exchanges insights and expands capabilities while new partners — including teams in Rotterdam, Finland, and Jordan — prepare to join the ecosystem.

Three Areas of Focus

Scenario Exploration – Using immersive visualization to examine “what if” futures and support planning conversations.

Capacity Building – Supporting interdisciplinary learning and developing shared understanding among practitioners.

Decision Support – Evaluating impacts before investments are made to reduce uncertainty and strengthen outcomes.

The work has been shared globally, including with delegations from ITS Korea and more than 30 European cities, illustrating how collaborative digital twin approaches can enhance planning, operations, and stakeholder engagement.

Organizer	Frank Leung Esri Canada, Canada
Moderator	Frank Leung Esri Canada, Canada
Speaker	Roger Browne City of Toronto, Canada Jonathan Hamel-Nunes City of Montreal, Canada Frank Leung Esri Canada, Canada

Special Interest Sessions (SIS)

SIS057

Digital Infrastructure and Transportation Data

Oct 21 (Wed) 16:00-17:30, Room 104, Convention Center

Session Description

This session will feature international experts and decision-makers who will provide updates and exchange perspectives pertaining to digital infrastructure and transportation data-related developments and opportunities.

Organizer	Sara Davidson U.S. Department of Transportation (U.S. DOT), United States of America
Moderator	John Harding U.S. Department of Transportation (U.S. DOT), United States of America
Speaker	Timo Hoffmann NAPCORE, Germany Michael Caltabiano National Transport Research Organisation (NTRO), Australia Russell McMurry Georgia Department of Transportation (GDOT), United States of America Tracy Larkin Thomason Nevada Department of Transportation, United States of America

Special Interest Sessions (SIS)

SIS058

Enhancing Intersection Safety

Oct 21 (Wed) 16:00-17:30, Room 109, Convention Center

Session Description

In many nations, preventing road traffic accidents, particularly the more serious ones, is a significant concern for all road users. In Japan, a striking 60% of traffic accidents occur at or near intersections, highlighting the need for effective solutions. Cooperative systems, such as Vehicle-to-Infrastructure (V2I) and Vehicle-to-Everything (V2X), are emerging as promising measures for accident prevention. These systems provide crucial information to vehicles, thereby aiming to reduce accidents, especially at intersections. Furthermore, they are anticipated to facilitate the advancement of automated driving technologies, which can significantly improve both intersection safety and overall traffic efficiency. This session will focus on the cooperative systems currently being researched and developed in Japan, along with similar initiatives from other parts of the world. Through this exploration, we aim to create a platform for speakers with diverse backgrounds and expertise to discuss the technical and policy-related challenges associated with these systems from a comprehensive viewpoint, fostering collaboration and insight among participants.

Organizer	Fumikazu Niikura UTMS Society of Japan, Japan
Moderator	Masafumi Kobayashi UTMS Society of Japan, Japan
Speaker	Keisuke Ishiguro National Police Agency Japan, Japan Tomoaki Konishi UTMS Society of Japan, Japan Yuichi Takayanagi UTMS Society of Japan, Japan Jane Lee ETTIFOS, Republic of Korea Ronald Wu HwaCom Systems Inc., Chinese-Taipei

Special Interest Sessions (SIS)

SIS059

Mind the Gap: Why ITS Standards Struggle to Reach Deployment and What Practitioners Are Doing about It

Oct 21 (Wed) 16:00-17:30, Room 108, Convention Center

Session Description

The ITS community has invested in developing interoperability standards across every transportation domain for decades. Transmodel and General Transit Feed Specification (GTFS) define public transport data models. DATEX II and National Transportation Communications for ITS Protocol (NTCIP) address traffic management. ISO 14813 and ISO METR provide architectural and multimodal frameworks. J1939 standardizes vehicle diagnostics. The Transactional Data Specification (TDS) enables demand-responsive trip coordination. Yet most cross-agency and cross-domain coordination still relies on phone calls, documents, and custom integrations. The problem is not the standards themselves. It is the structural disconnect between how standards are developed and how transportation technology is actually procured, built, and operated. Standards bodies work on multi-year consensus cycles producing specifications that reflect the state of the art at the time of drafting. Meanwhile, vendors ship products on commercial timelines, and agencies procure systems through contracts that rarely mandate standards compliance. By the time a specification reaches publication, the technology landscape has changed. The result is a persistent gap: standards exist but are partially implemented, inconsistently interpreted, or ignored in practice. In contrast, the technology industry has evolved rapid, iterative approaches to interoperability through open application programming interfaces (APIs), living specifications, and conformance testing that ship alongside the standard. This session brings together practitioners who have confronted the standards-to-deployment gap firsthand across transit, traffic, and connected vehicle domains. The objective is to discuss a practical framework for how our community can adopt similar principles, accelerating the path from specification to production to deployment without sacrificing critical characteristics.

Organizer	Carol Schweiger Schweiger Consulting LLC, United States of America
Moderator	Carol Schweiger Schweiger Consulting LLC, United States of America
Speaker	Santosh Mishra Flexlynqs, United States of America Young-Jun Moon Korea Advanced Institute of Science and Technology, Republic of Korea Kyu Ok Kim Korea Transport Institute (KOTI), Republic of Korea Niels Peter Skov Andersen Anemone Technology, Denmark

Special Interest Sessions (SIS)

SIS060

Development of Next-Generation Mobility Simulation and Autonomous Service Technologies for Metropolitan Areas

Oct 21 (Wed) 16:00-17:30, Room 310, Convention Center

Session Description

This session provides a comprehensive overview of next-generation AI-integrated traffic and mobility simulation technologies, centered on the development and application of the NextSIM platform. Anchored by the NextSIM engine and its constituent modules, the presentations trace the full simulation pipeline—from large-scale background data collection and advanced data processing frameworks to high-resolution traffic simulation, metropolitan-scale travel demand forecasting, visualization, and agent-based modeling (ABM). The session concludes by illustrating how these platform capabilities translate into real-world services—including autonomous mobility support for mobility-vulnerable users in transit-underserved areas—underscoring that next-generation simulation technologies serve not only planning and operations but also more equitable and inclusive mobility.

- (KAIST) Introduction to the next-generation AI integrated mobility simulation platform NextSIM (Description of each module within the NextSIM engine, including its functionality and potential applications) - (Korea University) Integrated simulation framework for travel demand prediction in a large-scale metropolitan area - (Laon Road) Next-Generation AI Traffic Operating System: Integrating High-Resolution Data and ABM for Urban Resilience - (Gaia3D) Developing a Traffic Simulation Visualization Program for Urban Planning Support Systems in New Town Planning - (KOTI) Introduction of an Autonomous Mobility Support Service for Mobility-Vulnerable Users in Transit-Underserved Areas.

Organizer	Sunghoon Kim Korea Transport Institute, Republic of Korea
Moderator	Hwasoo Yeo Korea Advanced Institute of Science and Technology, Republic of Korea
Speaker	Hwasoo Yeo Korea Advanced Institute of Science and Technology, Republic of Korea Simon Oh Korea University, Republic of Korea Byoungki Kang Laonroad, Republic of Korea Cheun-gill Park Gaia3D, Republic of Korea Ji hoon Seo Korea Transport Institute, Republic of Korea Wooseok Do Keimyung University, Republic of Korea Hwapyeong Yu Myongji University, Republic of Korea Sungtaek Choi Hanyang University, Republic of Korea Jinwon Yoon Korea University, Republic of Korea

Special Interest Sessions (SIS)

SIS061

Shaping Livable and Bustling Community by ITS Technology

Oct 21 (Wed) 16:00-17:30, Room 305, Convention Center

Session Description

Some of the key factors that resident weights to their community are 1) safety & secure, 2) livable or bustling by community activities for various generation. Regarding of this safety & secure, residents do not want to be involved into accidents even while walking, running, using e-kickboard, bicycle, bike other than vehicle, Also, resident has to feel secure even walking in street at night time. When it comes to a livable or bustling community, examples could be holding events that would attract by residents and come over to places to join; or even having idle talks. To realize these environments, ITS technology, mobility service coupled with IT framework are the key enablers. In other words, ITS technology and IT framework are the basic tool for realizing livable and bustling community.

This session was started from the last year at Atlanta. Overview of smart cities including mobility services were discussed last year. Based on the knowledge each speakers explained, this year's session will focus on various perspectives such as IoT, safety for all users, and evaluation for mobility based on our last discussion.

Organizer	Nobuyuki Ozaki ITS JAPAN and Nagoya University, Japan
Moderator	Nobuyuki Ozaki ITS JAPAN and Nagoya University, Japan
Speaker	Johanna Tzanidaki AYA Consulting BV, Netherlands Jack Chao Taipei City Government, Chinese-Taipei Nobuyuki Ozaki ITS JAPAN and Nagoya University, Japan Sadayuki Yoshitomi YOKOWO Co., LTD., Japan

Special Interest Sessions (SIS)

SIS062

Building Trust in Automated Mobility: Towards Sustainable Deployment

Oct 22(Thu) 11:00-12:30, Room 107, Convention Center

Session Description

Mobility plays a vital role in enabling people, goods, and services to move safely, efficiently, and sustainably—from major transport corridors to neighborhoods and individual homes. As technologies such as automated driving continue to mature, the central challenge is not only technological feasibility, but also how automated mobility services can be meaningfully accepted in local societies in ways that respond to diverse local needs and contexts.

In this session, experts who are actually working in the field in various regions around the world will identify the issues that are currently facing and explore how to engage with communities to realize sustainable automated mobility services. Particular attention is given to processes of enhancing societal acceptance, including trust-building, and to highlight pathways toward automated mobility services that genuinely support local residents.

Organizer	Manabu Umeda The University of Tokyo, Japan
Moderator	Manabu Umeda The University of Tokyo, Japan
Speaker	Ayako Taniguchi University of Tsukuba, Japan Yozo Hiraiwa The University of Tokyo, Japan Stephane Dreher ERTICO ITS Europe, Belgium Guy Fournier Pforzheim University, Germany

Special Interest Sessions (SIS)

SIS063

The Evolution of Precision for Safety through ITS

Oct 22(Thu) 11:00-12:30, Room 102, Convention Center

Session Description

Safely operating automated traffic services can only be realized when the shared information needed for the realization of these services complies with high usefulness, accuracy, integrity, availability and reliability requirements.

A panel of experts in this field will reveal ways these aspects could be tackled for Space, Cloud, Infrastructure and Device domains. The focus of the panel will be the localization of rapidly moving entities, hazards in critical scenarios illustrating key bottlenecks of connected and automated driving, while solutions should also comply with demanding automotive and micromobility market cost levels.

Relevant GNSS and low orbit service aspects will be addressed, as well as challenges on the creation, sharing and multi-layer fusing of Digital Twins aspects. Why harmonization and standardization of related aspects across the identified domains provides benefit, how the Cooperative ITS (cross-brand) real time ADAS information exchange is an important asset for increasing traffic safety and traffic efficiency, and how trust and reliability play a role. Finally, the panel will touch upon how achievements are safeguarded by compliance assessments and quality assurance in these domains.

Many World Congress sessions have focused on the cybersecurity aspect of enabling trust among participants. This session goes beyond cybersecurity and focuses on these gaps to be bridged: on the quality and usefulness of the data itself enabled by the advancements presented by the experts of the panel.

Organizer	Andras Varadi Cooperative Embedded Ltd, Hungary
Moderator	Andras Varadi Cooperative Embedded Ltd, Hungary
Speaker	Paul Spaanderman Innomo, Hungary Russ Whiton European Space Agency, Netherlands Hanaa AL Bitar THALES ALENIA SPACE, France Robert Gee AUMOVIO SE, United States of America

Special Interest Sessions (SIS)

SIS064

Driverless Vehicles: Addressing Sustainability and Safety Challenges from a Human-Centric Perspective

Oct 22(Thu) 11:00-12:30, Room 103, Convention Center

Session Description

As CCAM reshapes the transportation domain, the transition from human-driven to automated vehicles should be based on trust and resilience. OEMs anticipate some level of anxiety from passengers, particularly when transitioning from conventional vehicles to AVs. Passengers are also concerned with safety inside the cabin, while drivers in public transportation are providing a series of services to the passengers and the vehicle. With the suppression of the driver, the question is raised by whom and how all the services of the driver can still be offered. This session investigates novel safety assurance for autonomous driving systems, emphasizing the integration of scenario-based safety evaluation frameworks and functional safety standards to address SOTIF and safety cases in dynamic environments. We will explore Human–AV interaction safety through the lens of user-centric design, featuring multimodal in-cabin monitoring systems that utilize AI to analyze occupant behavior, emotion, and cognitive load, supporting adaptive HMI and proactive fallback strategies. Discussion will also center on energy-efficient AV operations, specifically highlighting hierarchical trajectory planning algorithms that simultaneously optimize fuel consumption and route efficiency while mitigating passenger motion sickness. Furthermore, we address the implications for automated freight and logistics, examining how these technologies optimize urban mobility flows for both passengers and goods, unlocking financial benefits through safer logistics operations. Finally, the session will cover the enabling technologies of CCAM, particularly 4D cooperative situational awareness and secure V2X/5G communication interfaces that fuse data across the cloud-edge continuum, ensuring robust interoperability and privacy-preserving intelligence for the next generation of mobility services.

Organizer	Youjun Choi Korea Automotive Technology Institute, Republic of Korea
Moderator	Antonios Lalas CERTH Centre for Research and technology Hellas, Greece
Speaker	Youjun Choi Korea Automotive Technology Institute, Republic of Korea Aristeidis Lalos ATHENA, Greece Christos Laoudias University of Cyprus, Cyprus Nikos Tsampieris ERTICO ITS EUROPE, Belgium Young-Jun Moon Korea Advanced Institute of Science and Technology, Republic of Korea

Special Interest Sessions (SIS)

SIS065

AI-Enabled and Integrated Data-Driven Technologies for Intelligent Infrastructure Maintenance

Oct 22(Thu) 11:00-12:30, Room 104, Convention Center

Session Description

This session highlights recent advances in AI-enabled and integrated data-driven technologies for intelligent infrastructure maintenance, with a focus on highways, bridges, tunnels, and related infrastructure assets. As voluminous maintenance-related data become increasingly available, artificial intelligence and advanced data-driven approaches are playing a critical role in transforming conventional maintenance practices into proactive, predictive, and automated systems. The session introduces six representative studies addressing key topics in intelligent infrastructure maintenance, including:

1) Probabilistic Prediction of Deterioration and Remaining Service Life of Bridge Expansion Joints
2) Automated Monitoring System for Bridge Expansion Joints using Road-Scan Images
3) Research on Artificial Intelligence-based Expressway Digital Road Signs
4) Service-Level KPIs and Test Protocol for Tunnel GNSS Re-Radiation: From RF Scan Metrics to CEP Targets
5) Research on developing an integrated AI analysis inspection system using Vehicle-mounted Cameras
6) Development of Overweight Truck Detection System using Bridge Deflection By integrating AI technologies such as computer vision, data-driven modeling, and intelligent sensing with traditional infrastructure engineering approaches, this session demonstrates how hybrid AI–data frameworks can enhance safety, sustainability, and operational efficiency. The session aims to foster technical exchange among researchers and practitioners and to discuss future directions toward AI-ready and resilient infrastructure maintenance systems.

Organizer	Jong-Chil Park Korea Expressway Corporation Research Institute, Republic of Korea
Moderator	Jong-Chil Park Korea Expressway Corporation Research Institute, Republic of Korea
Speaker	Jinhyuk Lee Korea Expressway Corporation Research Institute, Republic of Korea Sahyeon Lee Korea Expressway Corporation Research Institute, Republic of Korea Seongin Kang Korea Expressway Corporation Research Institute, Republic of Korea Wonwoo Lee Korea Expressway Corporation Research Institute, Republic of Korea Junsang Cho Korea Expressway Corporation Research Institute, Republic of Korea Seongin Kang Korea Expressway Corporation Research Institute, Republic of Korea

Special Interest Sessions (SIS)

SIS066

Cooperative Corridor Deployment at Scale: C-ITS Readiness for Major Events and Olympic Cities - Leveraging Operational Systems for Targeted High-Value C-ITS Corridor Deployments

Oct 22(Thu) 11:00-12:30, Room 109, Convention Center

Session Description

Scalable implementation of C-ITS for urban safety requires a robust business case with clear cost recovery accounting for a variety of factors. Identifying specific sites, modes, and methodologies for deployments - with a focus on high-value inner-urban corridors - is an approach used at present by road operators and vehicle manufacturers in Australia to accelerate the uptake of C-ITS.

This targets infrastructure deployments where benefits may be realised without large consumer-vehicle fleet penetration, showcasing a clear benefit to road operators when installing new technology, supporting safe and reliable mobility during high-demand periods and forming a template for Olympic and mega-event transport planning.

This session focuses on this deployment strategy, and how it has been used to accelerate the uptake of C-ITS in Australia. Attendees will gain practical insights on corridor architecture, policy alignment, funding mechanisms, and measurable safety & operational benefits, providing a replicable pathway for cities seeking to operationalise C-ITS & Automated mobility systems at scale.

Organizer	Ada Lin Toyota Australia and ITS Australia, Australia
Moderator	Susan Harris ITS Australia, Australia
Speaker	Ada Lin Toyota Australia and ITS Australia , Australia
	Luke Capelli Toyota Australia, Australia
	Andrew Mehaffey JYW Consulting, Australia
	Oliver Looker NGIS, Australia
	Martin Boehm AustriaTech and CRoads, Austria

Special Interest Sessions (SIS)

SIS067

Equity-Driven Digital Twins for Transport Planning: UK-Korea Collaboration and Lessons Learnt

Oct 22(Thu) 11:00-12:30, Room 108, Convention Center

Session Description

This session presents findings from the KUDATA (Korea-UK Digital Twin Approach for Transport Analysis) project, a bilateral innovation programme developing AI-powered digital twins for equitable transport planning. Unlike existing solutions that prioritise operational efficiency, KUDATA demonstrates how digital twin technology can balance service optimisation with social equity considerations - a critical need as cities globally redesign transport networks. The session will showcase practical implementations in Liverpool City Region (UK) and Busan Metropolitan City (Korea), exploring how graph neural networks and multi-criteria spatial interaction models enable transport authorities to evaluate public transport network redesigns across operational, environmental, and equity dimensions simultaneously. Speakers will present technical innovations including AI-assisted network generation tools with natural language interfaces, standardised spatio-temporal accessibility metrics for international comparison, and performance optimisations enabling metropolitan-scale analysis.

Key discussion points include overcoming data availability challenges across different urban contexts, integrating stakeholder requirements into automated network design algorithms, and establishing governance frameworks for equity-focused AI in transport planning. The session will address both technical and policy dimensions, examining how digital twins can support evidence-based decision-making during critical transitions such as bus reform. Attendees will gain insights into bilateral knowledge exchange between UK and Korean partners, practical lessons from user testing with transport authorities, and future directions for AI-driven transport planning tools. The session particularly welcomes participation from transport authorities, technology providers, and researchers interested in applying digital twin technology to address mobility equity challenges in localised contexts.

Organizer	Devon Barrett Podaris, United Kingdom (Great Britain and Northern Ireland)
Moderator	Heeseo Kwon University of Liverpool United Kingdom (Great Britain and Northern Ireland)
Speaker	Hoonjoo Yoon Sundosoft, Republic of Korea
	Deokjung Kim Busan Techno Park, Republic of Korea
	Jinuk Hwang Pusan National University, Republic of Korea
	Devon Barrett Podaris, United Kingdom (Great Britain and Northern Ireland)
	Michael Potter Liverpool City Region Combined Authority, United Kingdom (Great Britain and Northern Ireland)
	Jeongmin Lee Busan Metropolitan City, Republic of Korea

Special Interest Sessions (SIS)

SIS068

**Measuring Mobility for all in ITS:
What is Needed to Overcome the Gaps?**

Oct 22(Thu) 11:00-12:30, Room 310, Convention Center

Session Description

This session explores how intelligent transportation systems (ITS) can be designed and measured to ensure equitable, inclusive mobility for all— especially aging populations, persons with disabilities, and underserved communities. The session will examine the persistent gaps in measuring mobility equity, asking critical questions such as “mobility for who and measured for who?” and emphasizing the need to understand the diverse needs and values of all communities before developing equity metrics for ITS solutions.

The session will highlight practical frameworks for equity-centered ITS design, including universal design principles, accessibility standards, and data-driven approaches to evaluating equity outcomes beyond traditional performance metrics. Case studies, such as the Unleashing the Potential of Public Transport in Europe (UPPER) project in Europe, will illustrate how innovative measures and democratic governance can increase public transport uptake and satisfaction by all travelers.

Panelists will also discuss the role of regulation, funding constraints, and the importance of listening to community voices to avoid unintentionally worsening mobility challenges.

Attendees will gain cross-regional lessons on accessibility and inclusion, tools for evaluating equity impacts in ITS projects, and actionable insights for planning ITS as essential infrastructure that bridges demographic, physical, and digital divides.

Organizer	Carol Schweiger Schweiger Consulting LLC, United States of America
Moderator	Carol Schweiger Schweiger Consulting LLC, United States of America
Speaker	Doug Wilson University of Auckland, New Zealand
	Johanna Tzanidaki AYA Consulting B.V., Netherlands
	Tamara Djukic MLsquared, Machine Learning for Mobility and Liveability, Denmark
	Vladimir Vorotovic ERTICO, United Kingdom (Great Britain and Northern Ireland)

Special Interest Sessions (SIS)

SIS069

**ITS Without Borders:
Driving Innovation Through Global Collaboration**

Oct 22(Thu) 11:00-12:30, Room 305, Convention Center

Session Description

The ITS is rapidly evolving, emphasising the need for stronger cross-sectoral collaboration. Drawing on insights from the third **ERTICO-ITS Europe Market Radar Report**, this session will explore the sectoral challenges and opportunities in today's fast-developing ITS landscape, focusing on the Vehicle Manufacturers, Suppliers and Connectivity sectors across different regions. The session aims to provide an understanding of specific trends and advancements in ITS that transcend geographical boundaries. Aligned with regulatory policies and key initiatives in the 3 regions, the session emphasises the importance of adopting a global perspective. ITS is positioned as a catalyst for more innovative, efficient, smarter, and safer mobility. During the session, the following speakers will share their insights:

- Joost Vantomme, ERTICO – ITS Europe, will offer an overview of the current European landscape in these sectors and the importance of cross-sectoral collaboration.
- Laura Chace, ITS America, will provide insights into the current trends in ITS in the Americas region
- Ace Yamamoto, will delve in the current trends in ITS in the Asia Pacific.
- Ralf Weber, Qualcomm, will discuss key developments and challenges in the Connectivity sector
- Stacey Ryan, ITS Australia, will provide the overview of the ITS developments in Australia.

Organizer	Agne Vaitekenaite ERTICO ITS Europe, Belgium
Moderator	Agne Vaitekenaite ERTICO ITS Europe, Belgium
Speaker	Joost Vantomme ERTICO ITS Europe, Belgium
	Laura Demeo Chace Intelligent Transportation Society of America, United States of America
	Akio Yamamoto ITS Asia Pacific, Japan
	Ralf Weber Qualcomm, Germany
	Stacey Ryan ITS Australia, Australia

Special Interest Sessions (SIS)

SIS070

C-ITS(V2X) for VRU Protection toward Euro NCAP

Oct 22(Thu) 14:00-15:30, Room 107, Convention Center

Session Description

This session will discuss C-ITS (V2X) as a protection measure for VRUs, Vulnerable Road Users, injuries and fatalities, which have been increasing in Europe and the United States in recent years. The types of accidents resulting in traffic fatalities and injuries vary depending on the traffic conditions in each country and region.

For example, in Japan, approximately more than half of all traffic fatalities in 2024 was VRUs, pedestrians or cyclists and motorcycle drivers. Meanwhile, Europe and the United States have traditionally seen a high proportion of vehicle-to-vehicle and single-vehicle accidents. However, recently, the number of VRU-related traffic fatalities in both areas has been increasing. C-ITS (V2X) communication between vehicles and VRUs (motorcycles, bicycles, pedestrians, etc.) to notify them of potential dangers and reduce accidents will be subject to Euro NCAP and will likely become even more important. However, unlike vehicles, many challenges for VRUs still remain. These include equipment size, performance including reliability, cost, installation and portability, etc...

It can be said that each party is conducting repeated tests and formulating the best possible solution. Please also refer to the another SIS94 “The Current Status of the ever-expanding C-ITS (V2X)”, which explains Governmental and Industrial Status.

Organizer	Kevin Anegawa TOYOTA Motor Corporation, Japan
Moderator	Paul Spaanderman InnoMo, Hungary
Speaker	Jannis Fritz Volkswagen AG, Germany Hayato Maehara Honda Motor, Japan Ram Shallom Qualcomm, United States of America Bettina Erdem Aumovio, Germany Niels Andersen C2CCC, Denmark

Special Interest Sessions (SIS)

SIS071

From Pilots to Deployment: A Global Tour of Automated Driving

Oct 22(Thu) 14:00-15:30, Room 102, Convention Center

Session Description

Highly automated driving has progressed from controlled pilots to early commercial deployments, yet the pathway to large-scale implementation remains uneven across regions. This special interest session will take participants on a global tour of automated driving developments in Europe, the Americas, and Asia-Pacific, examining whether the sector is still in a learning phase or entering a period of scaled deployment.

The transportation and mobility challenges differ significantly across regions and countries, so comparing perspectives proves to be very insightful. Leaders from some regional ITS organisations will present the regulatory and policy state of play, highlighting commonalities and differences in policy frameworks, safety assurance and business practices. Special attention will be given to the inclusive and social connection such as public acceptance, trust, accessibility, user-centered HMI and personalization for diverse needs, digital inclusion, the impact of mixed traffic environments. Boundary conditions such as solutions to tackle liability, data sharing, cybersecurity for remote operations and traffic rules will be discussed also. Finally, the topic of physical and digital infrastructure shall be given due attention.

While differences in legal and operational frameworks may be difficult to reconcile — since each region has its own context — learning from other regions’ experiences could serve as useful reference material when engaging with our respective governments. By comparing regional experiences, the session aims to identify converging trends, transferable lessons, and priorities for accelerating safe and effective deployment worldwide.

Organizer	Joost Vantomme ERTICO ITS Europe, Belgium
Moderator	Francois Guichard UNECE WP 29, Switzerland
Speaker	Joost Vantomme ERTICO ITS Europe, Belgium Bobby McCurdy ITS America, United States of America Dean Zabrieszach HMI Technologies, Australia Akio Yamamoto ITS Japan ITS Asia Pacific, Japan Jaekyoung Roh Mars Auto, Republic of Korea

Special Interest Sessions (SIS)

SIS072

Data-Driven Innovation for Green, Secure, and Connected Fleet Mobility

Oct 22(Thu) 14:00-15:30, Room 103, Convention Center

Session Description

This session explores how emerging data technologies, cloud architectures, and robust communication frameworks are transforming commercial and electric fleet operations.

As fleet ecosystems evolve toward sustainability and autonomy, integrating data-driven intelligence becomes vital. The presentations in this session examine key advancements across the connected mobility spectrum: from cloud-enabled in-vehicle safety monitoring and collaborative data sharing for smarter logistics, to next-generation software back-office architectures tailored for electric fleets. Furthermore, the session highlights practical deployment strategies, including aftermarket C-ITS devices for commercial vehicles and standardized security frameworks (ISO 21177) that establish unified V2X trust for autonomous operations.

Together, these topics illustrate how cross-sector innovation connects vehicles, infrastructure, and management systems into a greener, safer, and more resilient mobility ecosystem.

Organizer	Han Gyun Jung Korea Electronics Technology Institute, Republic of Korea
Moderator	Han Gyun Jung Korea Electronics Technology Institute, Republic of Korea
Speaker	Yoowon Kim Innoca, Republic of Korea
	Steve Carroll CENEX, United Kingdom (Great Britain and Northern Ireland)
	Ben Fletcher Flexible Power Systems, United Kingdom (Great Britain and Northern Ireland)
	Seongkeun Jin Korea Electronics Technology Institute, Republic of Korea
	Woody Kim SAESOL Tech, Republic of Korea

Special Interest Sessions (SIS)

SIS073

Construction Plan for a High-Durability, Rain-Resistant Pavement Marking Tape Using Warm-Mix Asphalt for Smart Road-Infrastructure Development

Oct 22(Thu) 14:00-15:30, Room 104, Convention Center

Session Description

The Seoul Pavement marking Study installed and managed major pavement markings in the city center and established visibility standards through climate simulation tests to select pavement markings suitable for Seoul. This aims to provide stable visibility day and night and in rainy weather, enhancing the cognitive performance of drivers and autonomous vehicles. Furthermore, the Pavement marking tape hot inlay construction method reduces construction delays and visibility issues. It can be installed simultaneously with paving, resulting in significant cost savings. Furthermore, it contributes to the durability and quality of pavement markings, which are essential for the era of autonomous driving.

In general, the timing for installing lane markings after road paving (asphalt or concrete) can vary depending on several factors, but lane-marking work is typically possible once the pavement has stabilized. The proposed method involves using lane-marking tape and applying it during the final compaction stage of warm-mix asphalt. By attaching the tape while the asphalt is still warm, the lane markings can be completed simultaneously with the paving work, thereby shortening the construction period and enabling earlier project completion. A similar approach is already used in Germany and other advanced countries. In Germany, for example, this method maintains lane-marking luminance for up to 10 years on the Autobahn. This installation technique is referred to as the “inlay method,” in which the raised pattern of the lane- marking tape is embedded into the asphalt surface, improving durability.

Organizer	Hyo Sub Ahn 3M Korea, Republic of Korea
Moderator	Jin Tae Kim Korea National University of Transportation, Republic of Korea
Speaker	Soon Yong Park The Seoul Institute, Republic of Korea
	Ji-Un Jang Korea Expressway Corporation Research Institute, Republic of Korea
	Hyo Sub Ahn 3M Korea, Republic of Korea

Special Interest Sessions (SIS)

SIS074

Towards Social Implementation of Mobility Data in Disasters

Oct 22(Thu) 14:00-15:30, Room 109, Convention Center

Session Description

This session explores the use of connected cars as scientific data sources for environmental sensing, focusing on road safety and information provision during weather-related disasters. By statistically analyzing probe and dashboard camera data, it aims to improve weather prediction, assess road conditions, support road users and administrators, address implementation challenges, and discuss future directions of next-generation ITS through public-private collaboration.

Organizer	Satoshi Kimura ITS Japan, Japan
Moderator	Fumitaka Kurauchi Gifu University, Japan
Speaker	Kyohei Magome Road Bureau MLIT, Japan Tomoe Kawasaki ABeam Consulting Ltd, Japan Ralf-Peter Schaefer TomTom, Germany Chunkeun Cheon TOMMs, Republic of Korea

Special Interest Sessions (SIS)

SIS075

Cybersecurity and Privacy Risk Governance in Sustainable Automated Mobility

Oct 22(Thu) 14:00-15:30, Room 108, Convention Center

Session Description

The evolution of Connected and Automated Vehicles (CAVs) is transforming transport into a safety critical, data intensive ecosystem. While regulatory frameworks such as ISO/SAE 21434 and UNECE R155 establish essential cybersecurity requirements, the growing complexity of automated systems demands more structured, transparent and accountable approaches to risk governance. This special session examines how cybersecurity and data privacy can be systematically integrated across the lifecycle of automated mobility systems to ensure long term safety and sustainability. Particular attention will be given to advances in Threat Analysis and Risk Assessment (TARA), including automation aware risk modelling, improved treatment of privacy related threats, and mechanisms to reduce subjectivity in risk scoring while maintaining regulatory compliance. The session will address continuous cybersecurity management in highly automated vehicles, secure software and over the air update strategies, post quantum readiness in vehicular communication, and the role of digital forensics in incident response and accountability. It will further explore transparency in risk based decision making, traceability of mitigation strategies, and the interaction between technical controls, standards and regulatory expectations. By linking methodological developments with deployment realities, the session highlights how robust cybersecurity engineering and privacy protection form essential pillars of safe, resilient and sustainable automated mobility systems.

Organizer	Anastasija Collen University of Applied Sciences and Arts of Western Switzerland, Switzerland
Moderator	Lima Madomi TPG, Switzerland
Speaker	Meriem Benyahya University Mohammed VI Polytechnic, Morocco Jetzabel Serna-Olvera Cyber4People, Germany Francois Guichard UNECE, Switzerland Jannis Kelter Holon Drive, Germany

Special Interest Sessions (SIS)

SIS076

Sandbox on Autonomous Vehicle Trials

Oct 22(Thu) 14:00-15:30, Room 310, Convention Center

Session Description

Taiwan has been proactively advancing the development of autonomous vehicle technologies through sustained investment in research development and technological innovation. To facilitate this progress, Taiwan enacted the Act for Regulatory Sandbox of Unmanned Vehicles Technology Innovation, which provides temporary regulatory exemptions to enable innovative projects to be conducted within designated open environments.

Since October 2019, 20 autonomous vehicle trial programs have been launched and implemented across Taiwan. These initiatives encompass a broad range of application scenarios, including shuttle services in tourism factory/industrial park, last-mile transportation and logistics and cargo delivery. Through open-road testing, these programs aim to validate technological feasibility, operational safety, and service models, while systematically accumulating practical experience and empirical data to support future policy formulation and regulatory development. This session hopes to share Taiwan’s current practical experience in promoting autonomous vehicle technologies.

Through dialogue and exchanges with international partners on autonomous vehicle pilot programs, Taiwan seeks to cultivate a more open and supportive environment for technological research, innovation, and the development of next-generation mobility services. Furthermore, through international collaboration, Taiwan aspires to accelerate the commercialization and deployment of autonomous vehicle applications and to contribute to the advancement of safe, sustainable, and forward-looking intelligent transportation systems.

Organizer	Cheng-Tai Lei Autonomous Vehicles Technology Innovative Experimentation Program Office, Chinese-Taipei
Moderator	Cheng-Tai Lei Autonomous Vehicles Technology Innovative Experimentation Program Office, Chinese-Taipei
Speaker	Seolyoung Lee The Seoul Institute, Republic of Korea Andy Chan AECOM HONG KONG, China Renee Lin KINGWAYTEK TECHNOLOGY, Chinese-Taipei Hubert Chen TURING DRIVE, Chinese-Taipei Yun-Pang Flotterod GERMAN AEROSPAC CENTER (DLR), Germany

Special Interest Sessions (SIS)

SIS077

Women Users of the Mobility Network: Is Safe, Safe Enough?

Oct 22(Thu) 14:00-15:30, Room 305, Convention Center

Session Description

Women, in most countries around the world are juggling work, care for family and use public transport for shorter distances. The perception of safety of women in transportation is a critical issue that shapes their mobility, independence, and participation in public life. Many women experience anxiety while using public or shared transport due to risks such as harassment, stalking or assault. Factors like poor lighting, overcrowding, lack of surveillance, and inadequate staff presence often intensify these fears. Even when actual crime rates are low, past experience, media reports, and social narratives strongly influence women’s sense of vulnerability. As a result women may avoid certain routes or restrict travel times considerably limiting their mobility. This has repercussions on their professional and personal well-being, as their opportunities to join events, meetings of professional and/ or social nature become limited. Improving women’s perception of safety requires proactive planning by the transportation community based on gender-sensitive transport policies, reliable surveillance and reporting mechanisms as well as public awareness. Measures such as well -lit stations, CCTV cameras, women -only spaces, trained personnel, real -time safety apps and immediate response systems can play a key role in enhancing the perception of safety for women using the mobility network.

Ultimately, safe transportation is not just about movement but about dignity, freedom and equality for women. The speakers in this interactive session will discuss the perception of safety for women mobility users and the challenges this presents in day-to day operations and innovation research.

Organizer	Johanna Tzanidaki AYA Consulting BV, Netherlands
Moderator	Johanna Tzanidaki AYA Consulting BV, Netherlands
Speaker	Angelos Amditis ERTICO ITS Europe, Belgium Carol Schweiger Schweiger Consulting, United States of America Tilly Chang San Francisco County Transportation Authority, United States of America Geli Latsa CIBOS, Greece

Special Interest Sessions (SIS)

SIS079

Management of Electronic Traffic Regulations (METR)

Oct 22(Thu) 16:00-17:30, Room 102, Convention Center

Session Description

METR is designed to assist developers and manufacturers of driving automation systems (i.e., automation Levels 1-5), driver information systems (including those at automation Level 0), and trip planning systems to electronically obtain traffic rules and regulations to enable better compliance and route planning. METR also helps agencies better manage their regulations in a central repository that can readily be referenced as needed. The ISO 24315 series (METR) is designed to provide a globally-useful reference framework for the trustworthy and authenticatable use and distribution of electronic versions of legal traffic rules and regulations. Each region and locale deploying METR extends the international framework to support local needs by defining their own interfaces, protocols, and governance policies.

This session will discuss the METR standards, efforts to establish an implementation guide, which will describe how the standards can be tailored to meet local conditions, and several active deployment activities that are currently underway across the world.

Organizer	Knut Evensen NPRA, Norway
Moderator	Kenneth Vaughn Trevilon LLC, United States of America
Speaker	Knut Evensen NPRA, Norway
	Robert Sheehan US DOT, United States of America
	Taka Sugawara Universal Traffic Management Systems, Japan
	Bard De Vries NDW, Netherlands
	Trond Hovland NPRA, Norway
	Gareth Tilley PA Consulting, United Kingdom (Great Britain and Northern Ireland)

Special Interest Sessions (SIS)

SIS080

Building and Operating a Nationwide Real-World FOT Network for Autonomous Vehicles: The K-FOTIA Initiative

Oct 22(Thu) 16:00-17:30, Room 103, Convention Center

Session Description

This session introduces K-FOTIA (Korea Field Operational Test & Infrastructure Alliance), a nationwide real-world test network established to accelerate the commercialization of autonomous driving through coordinated collaboration in infrastructure, data, and operations. Connecting regional autonomous driving infrastructures across Jeonbuk, Daegu, Sejong (Chungcheong), and Gyeonggi, K-FOTIA forms an integrated Field Operational Test (FOT) framework enabling cross-regional validation and scalable service deployment. The alliance integrates real-road infrastructure, ICT-based communication systems (LTE/5G, C-V2X), digital control centers, and large-scale data platforms to support comprehensive safety assurance, performance evaluation, and service verification.

In Saemangeum, particular emphasis is placed on autonomous freight and commercial vehicle operations, including logistics corridors, middle-mile automation, and Total Cost of Ownership (TCO)-based evaluation.

The session presents region-specific implementation cases and commercialization support models, highlighting Jeonbuk’s logistics FOT, Daegu’s real-road evaluation systems, Sejong’s control–big data–open lab platform, and Pangyo’s urban autonomous services. Key applications such as public-road validation, C-ITS–enabled cooperative operations, and automated freight use cases will be discussed. The session will also address challenges and solutions in transitioning from real-world validation to commercial deployment, contributing to a sustainable national validation ecosystem for autonomous mobility.

Organizer	Hyun Bae Park Jeonbuk Institute of Automotive convergence Technology, Republic of Korea
Moderator	Kuk Cho Jeonbuk Institute of Automotive convergence Technology, Republic of Korea
Speaker	A-Ran Kim Jeonbuk Institute of Automotive convergence Technology, Republic of Korea
	Yong-Jin An Sejong Technopark, Republic of Korea
	Dong-Hwan Lee Korea Automotive Technology Institute, Republic of Korea
	Sung-Hyun Park RideFlux, Republic of Korea
	Jin-Woo Yoo Kookmin University, Republic of Korea

Special Interest Sessions (SIS)

SIS081

Data-Driven Transportation Policy and Road Environment Management Using ITS and Social Response Data

Oct 22(Thu) 16:00-17:30, Room 104, Convention Center

Session Description

This Special Interest Session explores data-driven approaches to supporting transportation policy and road environment management at the national and urban scale by leveraging data collected through Intelligent Transportation Systems (ITS), together with social response data such as traffic-related complaints and citizen reports. Moving beyond traditional post hoc analyses, the session focuses on how near-real-time data interpretation and spatial analysis can help identify emerging patterns and signals of transportation issues, and how these insights can be translated into policy and operational decision-making.

Through a range of research and applied case studies with diverse perspectives and methodologies, the session examines how multiple data sources—including ITS data and public complaint data—can deepen understanding of traffic safety, travel behavior, and road environments. Rather than being limited to specific technologies or single applications, the session provides an open forum for sharing varied approaches that encompass spatial analysis, monitoring, near-real-time sensing and nowcasting-oriented methods, and policy-oriented data utilization.

By combining applied research presentations with policy and practitioner-oriented discussions, this session aims to demonstrate how ITS and related data can evolve from tools for operational monitoring into strategic analytical assets for broader national, urban, and transportation policy contexts. The session will also address key considerations for real-world implementation in the public sector, including data integration, interpretation, and institutional applicability, offering broader insights into the future direction of data-driven transportation policy and ITS utilization.

Organizer	Yohan Chang Korea Research Institute for Human Settlements, Republic of Korea
Moderator	Yohan Chang Korea Research Institute for Human Settlements, Republic of Korea
Speaker	Yohan Chang Korea Research Institute for Human Settlements, Republic of Korea Junghan Baek Korea Research Institute for Human Settlements, Republic of Korea Sehyun Tak Korea Transport Institute, Republic of Korea Soomin Woo Konkuk University, Republic of Korea

Special Interest Sessions (SIS)

SIS082

Adaptive Roads: Climate-Resilient ITS Innovations from New Zealand and Beyond

Oct 22(Thu) 16:00-17:30, Room 109, Convention Center

Session Description

Global transportation networks are increasingly vulnerable to extreme climate events—intense rainfall, flooding, landslides, coastal erosion, heat-induced pavement failures, and seismic-triggered transport disruptions. For island nations with complex terrain like New Zealand, these hazards are intensifying under climate change, demanding a new generation of resilient, intelligent transport systems (ITS) that can anticipate, withstand, and rapidly recover from disruptive events.

This session examines how ITS technologies can enhance road network resilience by integrating real-time environmental sensing, predictive hazard analytics, and climate- adaptive operational responses. Using New Zealand as a case study—where steep topography, highly erodible volcanic soils, and a long, exposed coastline intersect with increasingly severe storm cycles—experts will present practical insights on how to design ITS solutions tailored for climate-driven extremes.

Panelists will discuss applications such as landslide-risk forecasting using geotechnical IoT sensors, AI-enhanced weather-responsive traffic management, resilient communications networks for rural and mountainous corridors, and material and pavement-monitoring ITS innovations that detect early degradation under heat and water stress. The session will highlight both successful deployments and the challenges faced when ITS systems encounter unpredictable natural environments, limited data coverage, or legacy infrastructure. With climate extremes escalating across the Asia-Pacific, this session offers timely guidance on embedding climate resilience into ITS planning, investment, and operations, ensuring that transport networks remain safe, functional, and adaptive under future conditions.

Organizer	Doug Wilson University of Auckland, New Zealand
Moderator	Doug Wilson University of Auckland, New Zealand
Speaker	Arif Rafiq ESRI, ITS Canada, Canada Scott Hammond CSLI, ITS New Zealand, New Zealand Sujith Padiyara RC3 NZ, New Zealand

Special Interest Sessions (SIS)

SIS083

Advancing Automated Public Transit around the World

Oct 21(Wed) 14:00-15:30, Room 103, Convention Center

Session Description

This session will feature international experts and decision-makers who will provide updates and exchange perspectives pertaining to the application of automated vehicles (such as automated shuttles) for public transit.

Organizer	Sara Davidson U.S. Department of Transportation (U.S. DOT), United States of America
Moderator	Sara Davidson U.S. Department of Transportation (U.S. DOT), United States of America
Speaker	Hyungjun Park U.S. Department of Transportation, United States of America Kenji Sato Ministry of Land, Infrastructure, Transport and Tourism (MLIT), Japan Myrna Melgar City and County of San Francisco, United States of America Jinwoo Lee Studio Galilei, Republic of Korea

Special Interest Sessions (SIS)

SIS085

Who is the ITS Engineer of the Future?

Oct 22(Thu) 16:00-17:30, Room 305, Convention Center

Session Description

The ITS workforce is evolving alongside advances in connected, automated, and digital transportation technologies. This session explores the skills, experiences, and career pathways needed to support the next generation of ITS professionals. Panelists will share perspectives on workforce development, capacity building, industry best practices, safety-focused research, and initiatives that are preparing practitioners to meet emerging transportation challenges.

Organizer	Virginia Lingham WSP, United States of America
Moderator	Virginia Lingham WSP, United States of America
Speaker	Virginia Lingham WSP, United States of America Josh Johnson Southwest Research Institute, United States of America Kellen Shain Noblis, United States of America Max Sugarman ITS UK, United Kingdom (Great Britain and Northern Ireland)

Special Interest Sessions (SIS)

SIS086

Global Connectivity Solutions to Support Conected and Automated Driving

Oct 22(Thu) 11:00-12:30, Room 309, Convention Center

Session Description

This session explores global connectivity solutions enabling safe and scalable automated driving, covering harmonized V2X standards, smart roadside object detection, security frameworks, and real-world deployment trends across global automotive ecosystems.

Organizer	Hakseong Kim LG Electronics, Republic of Korea
Moderator	Yunjong Kim LG Electronics, Republic of Korea
Speaker	Sungjin Kim LGE, Republic of Korea Shin Yamamoto Toyota Motor Corporation(Mobility ITS Platform Planning Div.), Japan Maxime Flament 5GAA, Belgium Bridgette Beato Lumenor consulting ,United States of America Laurie Matkowski Lumenor consulting, United States of America

Special Interest Sessions (SIS)

SIS087

Challenges and Global Trends for the Implementation and Deployment of V2X Communications

Oct 23(Fri) 09:00-10:30, Room 107, Convention Center

Session Description

The introduction and deployment of 5.9 GHz V2X is taking place in various regions around the world. In Japan, the 5.9 GHz band is expected to be allocated for V2X communications in the near future, and various initiatives toward its introduction are ongoing. However, to ensure that these efforts lead to long-term success rather than a temporary phenomenon, it is necessary to consider how the deployed communication infrastructure, in-vehicle communication equipment, and related services can be sustained over time. With this background, we will discuss challenges in promoting and maintaining V2X communications, including cost-related aspects. In this session, we invite experts from both the public and private sectors from Europe, the United States, and Japan. They will share the current trends in V2X implementation and deployment. They will also share the efforts and challenges related to ensuring the sustainable operation of V2X systems in each region. After that, we will also exchange opinions on the current situation and future challenges.

Organizer	Yudai Matsuo Ministry of Internal Affairs and Communications, Japan
Moderator	Takeshi Yamamoto ITS Infocommunication Forum International Cooperation Special Committee, Japan
Speaker	Michele Mueller Michigan Department of Transportation, United States of America Bettina Erdem AUMOVIO Autonomous Mobility Germany GmbH, Germany Yudai Matsuo Ministry of Internal Affairs and Communications, Japan Ada Lin Toyota Motor Corporation Australia Limited, Austria Jannis Fritz Volkswagen AG, Germany

Special Interest Sessions (SIS)

SIS088

Accelerating CCAM Deployment – Business and Operations Across Global Automated Mobility Services

Oct 21(Wed) 16:00-17:30, Room 107, Convention Center

Session Description

The deployment of Connected, Cooperative and Automated Mobility (CCAM) is advancing rapidly worldwide, moving beyond demonstrations to real operational services. This session will focus on the essential business and operational building blocks that underpin sustainable CCAM rollouts across all use cases, with particular emphasis on shared and collective mobility services. Drawing on insights from a diverse range of automated mobility deployments and roadmap developments in Europe, Asia (including South Korea and Japan), and the United States, the session will examine the economic foundations and operational strategies supporting the broad spectrum of CCAM solutions. It will highlight how robust business models, market analysis, procurement frameworks, and stakeholder coordination are driving the commercial viability and integration of automated transport, from shared shuttles to on-demand services and beyond. Presentations will showcase global experiences, addressing key challenges faced by authorities and operators such as reducing costs, increasing passenger numbers, and improving inclusivity and accessibility. Discussions will also explore how automated mobility services complement and enhance existing transport systems, supporting climate and social inclusion goals.

Attendees will gain a clear understanding of the lessons learned, deployment ambitions, and scaling potential of CCAM, with a focus on user adoption, economic benefits, and the pathways to resilient, scalable mobility ecosystems. The session is designed for ITS professionals and mobility stakeholders seeking authoritative perspectives on advancing operational deployment of automated and shared transport.

Organizer	Stephane Dreher ERTICO ITS Europe, France
Moderator	Stephane Dreher ERTICO ITS Europe, France
Speaker	Minsang Yu Autonomous A2Z, Republic of Korea
	Francis Mckinney Zenzic, United Kingdom (Great Britain and Northern Ireland)
	Manabu Umeda University of Tokyo, Japan
	Russ Martin AustriaTech, Austria
	Laurie Matkowski PMP, United States of America

Special Interest Sessions (SIS)

SIS089

Korea-EU Mobility R&D Partnerships & Global Networking for Early-Career Researchers

Oct 23(Fri) 09:00-10:30, Room 103, Convention Center

Session Description

With South Korea’s official association to Horizon Europe, a transformative era for Korea-EU collaborative research in the mobility sector has emerged. This special session introduces strategic blueprints for expanding participation under the Horizon Europe framework and shares operational insights from Korea-UK bilateral R&D. Furthermore, it highlights breakthroughs by rising Korean scientists in land and transportation, while providing a dedicated platform to foster global networking and explore subsequent joint funding opportunities.

Organizer	Jeonghee Kim KAIA, Republic of Korea
Moderator	Seung Il Kim KAIA, Republic of Korea
Speaker	Jaehyun Jason So Ajou University, Republic of Korea
	Devon Barrett Podaris, United Kingdom (Great Britain and Northern Ireland)
	Heeseo Kwon University of Liverpool, Republic of Korea
	Taeyoon Kim Pukyong National University, Republic of Korea
	Minjae Park Pukyong National University, Republic of Korea
	Jaekyoung Kim University of Seoul, Republic of Korea
	Sujin Son Sundosoft Co., Ltd., Republic of Korea

Special Interest Sessions (SIS)

SIS090

Recycled-Plastic Modular Roads: A New Framework for Sustainable and Safe Mobility

Oct 23(Fri) 09:00-10:30, Room 104, Convention Center

Session Description

This session explores modular road technologies using recycled plastics, addressing carbon neutrality, resource circulation, and traffic safety, and presenting a forward-looking paradigm for future road infrastructure. It introduces a full life-cycle innovation model covering material performance, long-term durability, environmental impact mitigation, structural optimization, and a demonstration-based construction and maintenance framework. The session highlights how modular roads can overcome the limitations of traditional asphalt and concrete infrastructure while significantly reducing carbon emissions and waste, positioning them as a model for resource-circulating smart infrastructure. Key technical aspects—including mechanical strength, interfacial adhesion, behavior under temperature and humidity changes, and micro-plastic leakage—are discussed alongside strategies for field test and implementation.

In addition, the session presents smart sensing and communication technologies for intelligent road infrastructure. It introduces an integrated operational model combining next-generation road sensors—capable of detecting temperature, water film, and friction in real time—with RF-DC wireless charging and TVWS-based long-range, ultra-low-power communications. These technologies ensure reliable data collection even in adverse weather, supporting autonomous and cooperative driving systems and enhancing road safety. Pilot tests on cooperative speed management (C-ISA), traffic-level accident risk assessment, and driver speed compliance demonstrate the tangible safety benefits of integrating modular roads with smart sensing infrastructure.

The session ultimately aims to outline a global collaboration framework for next-generation smart infrastructure that combines sustainability, resilience, and safety, centered on recycled plastic modular road technologies.

Organizer	Jun Hwa Jeong Korea Institute of Civil Engineering and Building Technology, Republic of Korea
Moderator	Choong Heon Yang Korea Institute of Civil Engineering and Building Technology, Republic of Korea
Speaker	Kang Hun Lee Korea Institute of Civil Engineering and Building Technology, Republic of Korea Sang-Yoon Lee Korea Institute of Civil Engineering and Building Technology, Republic of Korea Ki Soo Park Korea Institute of Civil Engineering and Building Technology, Republic of Korea Yong Seok Kim Korea Institute of Civil Engineering and Building Technology, Republic of Korea

Special Interest Sessions (SIS)

SIS091

Code Red for Innovation: Advancing Emergency Response through Intelligent Transportation Systems

Oct 23(Fri) 09:00-10:30, Room 109, Convention Center

Session Description

This session highlights the critical, life-saving role of Intelligent Transportation Systems (ITS) in emergency response across roads, rail, maritime, and aviation networks. It explores how globally deployable ITS technologies—powered by AI, real-time multimodal data, connected and automated vehicles, traffic management systems, and smart infrastructure—enable faster, safer, and more coordinated responses during emergencies such as wildfires, extreme weather, evacuations, and large-scale events.

Drawing on international deployments, panelists will share operational lessons on tools including traffic signal priority and preemption, adaptive and predictive routing, evacuation corridor management, interoperable communications, and integrated data platforms. These capabilities support fire services, EMS, disaster management agencies, and maritime and aviation authorities across urban, rural, remote, coastal, and cross-jurisdictional contexts.

The session will also address barriers to scaling impact, such as interoperability gaps, governance and data-sharing challenges, cybersecurity and system reliability, workforce readiness, and long-term investment alignment. Emphasis will be placed on international standards, harmonized ITS architectures, and public–private collaboration to build resilient, multimodal emergency response systems capable of adapting to climate-driven hazards and evolving mobility networks.

Organizer	Janneke Van Der Zee ITS Canada, Canada
Moderator	Janneke Van Der Zee ITS Canada, Canada
Speaker	Youngwook Kim TOMMs, Republic of Korea Tamara Djukic MLsquared, Denmark Arif Rafiq Esri Canada, Canada

Special Interest Sessions (SIS)

SIS092

Bridging the Divide: Harmonizing AI-Driven Governance and Equitable Access in a Connected World

Oct 23(Fri) 09:00-10:30, Room 108, Convention Center

Session Description

This Special Interest Session, titled Bridging the Divide: Harmonizing AI-Driven Governance and Equitable Access in a Connected World, will explore the critical intersection of advanced mobility technology and societal equity. As we move “Beyond Mobility” into a “Connected World,” the rapid deployment of automated driving, electric vehicles, and AI-driven systems presents a unique challenge: ensuring universal access and fair governance. This session goes beyond technical interoperability, focusing on practical implementation strategies for mid-sized cities like Gangneung.

Led by global policy expert Selika Josiah Talbott, J.D., speakers will discuss navigating the complex regulatory landscape, utilizing data for predictive safety while maintaining privacy, and developing inclusive smart infrastructure that benefits all citizens, including vulnerable populations. Participants will gain actionable frameworks to apply an equity-first lens to their mobility services and governance models, ensuring a sustainable, safe, and fair transportation ecosystem for the future. The session aims to foster a meaningful dialogue between global leaders and local stakeholders on shaping an integrated and equitable connected world.

Organizer	Selika Talbott Autonomous Vehicle Consulting LLC, United States of America
Moderator	Selika Talbott Autonomous Vehicle Consulting LLC, United States of America
Speaker	Akio Yamamoto ITS Asia, Japan Lee White USDOT, United States of America Kevin Reid Beep, United States of America Brian Cronin ITSJPO, United States of America

Special Interest Sessions (SIS)

SIS093

ITS Innovation Technosystem in Europe

Oct 23(Fri) 09:00-10:30, Room 310, Convention Center

Session Description

As Europe accelerates its digital and green mobility transition, the focus is shifting from isolated ITS deployments to a coordinated, data-driven ecosystem approach. This session will explore how Europe is building the governance structures, technical foundations, and operational models needed for interoperable, real-time traffic and mobility management, and will discuss how these experiences can inform and inspire global practice. A key priority in Europe is the creation of a harmonised mobility data environment. Europe's work on coordinating National Access Points demonstrates the importance of common specifications, metadata alignment, and structured cross-border cooperation to ensure that mobility data is accessible, reliable, and reusable. Timo Hoffman will present NAPCORE (National Access Point Coordination Organisation for Europe), highlighting how capacity building, quality assurance frameworks, and long-term governance models are strengthening the resilience, performance, and sustainability of this ecosystem.

Dr Johanna Tzanidaki will reflect on the broader transformation from infrastructure-centric control to network-wide optimisation enabled by digital connectivity and standardisation. She will focus on the evolution toward Traffic Management 2.0, where traffic operations become increasingly predictive, multimodal, and cooperative, integrating public and private data streams in real time.

Verena Wagenhofer will provide evidence from the EU-funded STREnGth_M project, particularly on collating research initiatives and developing strategic roadmaps to guide future ITS deployment. Importantly, the conversation will consider the role of national ITS networks in translating European frameworks into operational deployment and feeding practical experience back into strategic development.

Miroslav Petrović will discuss the journey from innovation to real-world implementation from the perspective of the ITS Nationals Network, which brings together 2,200 entities across 28 European national ITS associations.

By reflecting on these European initiatives, the session will identify transferable lessons for other regions. Carol Schweiger will offer a global perspective, particularly from the U.S., validating and constructively challenging the ideas, approaches, and procedures discussed by the panel.

Organizer	Vladimir Vorotovic ERTICO ITS Europe, Belgium
Moderator	Vladimir Vorotovic ERTICO ITS Europe, Belgium
Speaker	Timo Hoffman NAPCORE, Germany Darren Capes Department for Transport, United Kingdom (Great Britain and Northern Ireland) Johanna Tzanidaki SAE Europe AYA, Greece Carol Schweiger Tech4transit, United States of America Miroslav Petrovic ITS Serbia, Serbia

Special Interest Sessions (SIS)

SIS094

The Current Status of the Ever-Expanding C-ITS (V2X)

Oct 22(Thu) 16:00-17:30, Room 107, Convention Center

Session Description

In this session, representatives from the public and private sectors will explain the current state of C-ITS (V2X) and its future prospects, providing an overview of the overall framework and current state of the technology as we work towards “Vision Zero.” “Vision Zero” is a shared goal and slogan among European and the US governments. In Europe, V2X is defined as C-ITS (Cooperative ITS) under the ITS Directive. Under DG MOVE, V2X is steadily expanding through infrastructure standardization by C-ROADS and application standardization by ETSI and C2CCC. Germany, Austria, Spain, the Czech Republic, and France are expanding the installation of RSUs and OBUs in emergency vehicles, connecting over 2 million VW vehicles via C-ITS (V2X). Meanwhile, in the US, the DOT’s Roadmap outlines the outlook for V2X, but due to spectrum shortages, stalled RSU standardization, and the cancellation of a bill (FMVSS150) requiring OBUs, V2X deployment remains largely state-by-state. Furthermore, Euro NCAP and other organizations are working to address VRU (motorcycle, bicycle, pedestrian, etc.), which have recently seen an increase in traffic fatalities in both Europe and the United States. Regarding this issue, relevant members will be explaining it in a separate event, SIS70 “C-ITS (V2X) for VRU Protection toward Euro NCAP,” so please join us there as well.

Organizer	Kevin Anegawa TOYOTA Motor Corporation, Japan
Moderator	Paul Spaanderman InnoMo, Hungary
Speaker	Martin Boehm AustriaTech, Austria Arik Almkermann Volkswagen AG, Germany John Kenney Toyota InfoTech Labs, United States of America Susanne Schulz Die Autobahn, Germany Bernd Schober City of Hamburg, Germany

Special Interest Sessions (SIS)

SIS095

V2XPFS: A Nationwide Endeavor on Deployment of V2X in the United States and Canada

Oct 23(Fri) 11:00-12:30, Room 102, Convention Center

Session Description

As owners and operators of the nation’s surface transportation infrastructure, state transportation agencies are at the core of the nationwide connected vehicle initiative. Owing to the federal structure of the United States, individual states operate under differing legislative frameworks, institutional priorities, and economic conditions, which in turn lead to heterogeneous strategies for deploying connected vehicle environments. Therefore, to enable scalable and interoperable deployment, it is essential for the states to achieve harmony in thoroughly defining technological, regulatory, and commercial components of connected vehicles technologies. Motivated by this need, the Vehicle-to-Everything Pooled Fund Study (V2XPFS) was established to foster a nationwide coordination across public and private sectors, thereby addressing timely challenges arising in the field of connected vehicles. Specifically, the V2XPFS will serve as a front-end, inter-state platform to advance this nationwide effort of expanding V2X deployment. Currently uniting 19 U.S. states and the Transport Canada, the program establishes a coordinated, multi-phase program that supports applied research, modeling and simulation, engineering design, field demonstration, evaluation, and technology transfer of connected vehicle infrastructure, vehicles, and applications. Example research focuses include definition and installation of onboard units (OBUs), cybersecurity in penetration testing, work zone alert implementation, and smart intersection. This special interest session will convene officials from several member states of the V2XPFS, and share their current implementation status, lessons learned, and forward-looking visions for achieving a harmonized and sustainable nationwide V2X ecosystem.

Organizer	Seungmo Kim Georgia Southern University, United States of America
Moderator	Seungmo Kim Georgia Southern University, United States of America
Speaker	Zhitong Huang Virginia Department of Transportation, United States of America Russell McMurry Georgia Department of Transportation, United States of America Darran Anderson Texas Department of Transportation, United States of America

Special Interest Sessions (SIS)

SIS096

LEO satellite Integration for Ensuring Reliable Positioning, Timing, and Connectivity in Autonomous Driving and C-ITS

Oct 23(Fri) 11:00-12:30, Room 103, Convention Center

Session Description

As autonomous driving and Cooperative-ITS(C-ITS) scale up, “always-on” Positioning, Timing, and Connectivity become safety-critical-yet today’s GNSS and terrestrial networks can degrade in dense urban canyons, tunnels, harsh weather, or under interference. This session explores how Low Earth Orbit(LEO) satellite constellations can be integrated with multi-sensor localization (IMU/odometry/vision), terrestrial V2X(C-V2X/DSRC), and cloud/edge infrastructure to deliver resilient PNT (Positioning, Navigation & Timing) and communication for connected automated driving. The session will cover :

- (1) LEO technology primer for ITS : how it differs from GNSS and where it adds value - A concise technical overview of LEO for ITS, focusing on how it differs from GNSS(e.g., link dynamics, handover/Doppler, coverage behavior) and where it can add value for autonomous driving and C-ITS in terms of more resilient positioning, timing, and connectivity.
- (2) Hybrid PNT & connectivity architecture based on key LEO characteristics - System architecture integrating LEO + GNSS + terrestrial V2X/5G + onboard sensors, including multi-link options and core deployment trade-offs.
- (3) Sustainability & safety value : what measurable benefits does LEO integration deliver? - How LEO integration can improve safety and sustainability and which measurable indicators(availability/continuity, latency/outages, efficiency) best capture the benefits.
- (4) Autonomous driving and C-ITS use cases - Pilot/deployment use cases and lessons learned for LEO-enabled PNT/connectivity in autonomous driving and C-ITS, especially in challenging Operational Design Domains(urban, tunnels, transitions).

Organizer	Yunho Cha Hanwha Aerospace, Republic of Korea
Moderator	Kwangjin Kim Hanwha Aerospace, Republic of Korea
Speaker	Jungtae bae Hanwha Aerospace, Republic of Korea Hyunjung Lee Inha University, Republic of Korea Wonwoo Park Sejong University, Republic of Korea Yuhyun Park Sejong University, Republic of Korea

Special Interest Sessions (SIS)

SIS097

Development of Reconfigurable Architecture, Evaluation, and Verification Technology for Defects in Autonomous Vehicle

Oct 23(Fri) 11:00-12:30, Room 104, Convention Center

Session Description

Cities hosting tourism and large-scale events must continuously adjust traffic operations, curb/parking management, and multimodal information services under highly dynamic and often unpredictable demand, while operating with limited staff and fragmented legacy systems. This session explores reconfigurable ITS as a modular, service-oriented and policy-driven approach that enables operators to dynamically activate, compose, and scale traffic control and information functions in response to evolving conditions.

We will discuss platform architectures including cloud-edge orchestration, open APIs, and unified data governance that support rapid reconfiguration of ITS services. Key focus areas include integration of heterogeneous roadside infrastructure and V2X data streams, as well as operational control workflows that enable safe, accountable, and real-time system adaptation. Case examples will demonstrate how reconfiguration can support corridor-level traffic management, dynamic parking guidance, prioritization of public transport and emergency vehicles, and coordinated incident response.

The session will further address system evaluation and deployment challenges, including the definition of measurable performance indicators, interoperability across vendors and jurisdictions, cybersecurity considerations, and phased deployment strategies from pilot projects to city-scale operations. Participants will gain practical insights into designing and operating adaptable ITS platforms that improve responsiveness, efficiency, and resilience in cities experiencing seasonal or event-driven traffic surges.

Organizer	Pusik Park Korea Electronics Technology Institute, Republic of Korea
Moderator	Pusik Park Korea Electronics Technology Institute, Republic of Korea
Speaker	Hyeongrae Kim Korea Electronics Technology Institute, Republic of Korea Kanghee Kim Soongsil University, Republic of Korea Gyounghoon Chun Korea Advanced Institute of Science and Technology, Republic of Korea Hyeondeok Yang Korea Intelligent Automotive Parts Promotion Institute, Republic of Korea

Special Interest Sessions (SIS)

SIS098

Integrating the Movement of People with Vehicles: What is the Reality?

Oct 23(Fri) 11:00-12:30, Room 109, Convention Center

Session Description

How many times have we heard recently that to best facilitate everyone’s mobility, we need to integrate people and vehicles? What does that mean from an international perspective? It begins with the integration of all mobility services such as driving private vehicles, public transport, micromobility, walking, taxis, carsharing and automated vehicles with traffic management. For this integration to be effective, there must be several supporting activities/systems, as follows:

- Collaboration and data sharing
- Multimodal approaches
- User-centric solutions
- Data quality
- Sustainability and innovation

This session will cover how all three ITS regions across the world are actually integrating people movement with vehicle movement, specifically using these supportive approaches. For example, in “Collaboration and data sharing,” open communication and cooperation between public and private stakeholders is resulting in effective traffic management (e.g., supported by data-sharing frameworks like the European Mobility Data Space (EMDS)). This collaboration fosters trust and enables the seamless exchange of data to improve all mobility services.

Another example is the use of “User-centric solutions.” Across the three ITS regions, addressing various user needs, including mobility for all, which includes the “complete trip” concept (developed by the US Federal Transit Administration), in traffic management is fostering a more seamless and efficient mobility experience while ensuring a sustainable transport future for all users.

Organizer	Carol Schweiger Schweiger Consulting LLC, United States of America
Moderator	Carol Schweiger Schweiger Consulting LLC, United States of America
Speaker	Tilly Chang San Francisco County Transportation Authority, United States of America Agne Vaitekenaitė ERTICO, Belgium Tamara Djukic MLSquared, Spain Stacey Ryan ITS Australia, Australia Meng-Feng Wu Taiwan Telematics Industry Association, Chinese-Taipei

Special Interest Sessions (SIS)

SIS099

Support from Road Infrastructure for the Realization of Connected and Autonomous Mobility

Oct 23(Fri) 11:00-12:30, Room 108, Convention Center

Session Description

To realize connected and automated mobility, progress in in-vehicle technologies alone is not sufficient. Support from road infrastructure is also essential, including not only physical infrastructure but also the development of digital infrastructure. Around the world, efforts are underway to advance vehicle–infrastructure cooperation technologies, conduct various pilot projects, and establish institutional frameworks aimed at social implementation, all with a view to infrastructure-based support for automated driving. Under these circumstances, the role of road authorities is becoming increasingly important. In this session, speakers will present initiatives related to “infrastructure-based support for automated driving” in their respective countries, including key challenges, policy measures, and demonstration projects. Based on these presentations, the session aims to deepen discussions on the following topics:

- Division of roles between the public and private sectors in technology development
- Effective models of cooperation between vehicles and road infrastructure
- Approaches to information provision for automated driving systems
- Directions for institutional and regulatory support
- The roles of physical infrastructure and digital infrastructure

Organizer	Satoshi Sato Mitsubishi Research Institute Inc, Japan
Moderator	Hironao Kawashima Mobility Culture Research Center Keio University, Japan
Speaker	TBD Korea Etc. Due To Last-Minute Change TBD, Republic of Korea Martin Boehm AustriaTech, Austria Dongzhu Wang National ITS Research Center RIOH MOT, China Yuushi Yamamoto ITS Policy and Program Office Road Bureau Ministry of Land Infrastructure Transport and Tourism, Japan

Special Interest Sessions (SIS)

SIS100

**Bridging Geospatial Standards and Intelligent Transport Systems:
The Future of GDF, HD Maps, and Cross-Domain Interoperability**

Oct 20(Tue) 11:00-12:30, Room 104, Convention Center

Session Description

This Special Interest Session will explore how geospatial and Intelligent Transport Systems (ITS) standards must evolve together to support next-generation mobility. As automated driving, cooperative ITS, and infrastructure digital twins mature, the need for harmonised, high-definition, and interoperable road data has become critical. The session will bring together experts from ISO standardisation communities, the Geographic Data Files (GDF) domain, HD map developers, and road authorities to strengthen collaboration between geospatial and ITS stakeholders. Discussions will focus on the future evolution of GDF, alignment between ISO/TC 204 and ISO/TC 211 activities, and practical pathways to ensure that national road databases and infrastructure asset systems can directly support deployment-ready ITS services. Speakers will highlight gaps between existing standards and emerging operational needs, and examine how formal standardisation can complement industry-driven HD map specifications. The session aims to identify priority areas for joint work, encourage new liaison activities, and ensure that global geospatial standards effectively underpin safe, scalable, and locally deployable ITS solutions.

Organizer	Peter Schmitting ERTICO, Belgium
Moderator	Peter Schmitting ERTICO, Belgium
Speaker	Trond Harald Hovland Statens VEGvesen, Norway Stephane Dreher ERTICO, Belgium Blaive Loic Itsm Conseils, France Grace Alex TomTom, Australia

Scientific Paper Sessions(SP)

SP001

Data Analytics for Sustainable and Inclusive Mobility

Oct 19(Mon) 11:30-12:30, Room 109, Convention Center

Moderator

Shin Hyung Cho
Hongik University, Republic of Korea

PT02_1910
(Scientific)

Data Fusion for Inclusive Mobility: Analyzing Transfer Barriers in Elderly Intermodal Travel
Sedong Moon, Hanyang University ERICA, Republic of Korea

PT02_1801
(Scientific)

Evaluating Public Transit Efficiency Using Multiple Public Data Sets in Korea
Geo Lee, Korea University, Republic of Korea

PT02_1716
(Scientific)

Do All Transit Riders Minimize Travel Time? Evidence of Behavioral Heterogeneity from Latent Class Analysis and MNL Re-Ranking of 1.3 Million Smart Card Trips in Seoul
Taewoo Kim, Gachon University, Republic of Korea

PT04_1507
(Scientific)

Using Vehicle Digital Twins for Enabling Commercial Operations of Electric Trucks
Robinson Medina, TNO, Netherlands

SP003

Safety Assessment & Protection for Vulnerable Road Users and Micromobility

Oct 19(Mon) 11:30-12:30, Room 302, Convention Center

Moderator

Justice Abhay Manohar
Indian Supreme Court Committee on Road Safety, India

PT01_1703
(Scientific)

Safety Protection for Vulnerable Road Users: Building an End-Cloud Integrated AI Smart Glasses
Layla Xu, Beijing Haidian Foreign Language School, China

PT01_1922
(Scientific)

Comparative Safety Analysis of Cargo-Bike and Truck-Based Last-Mile Delivery in Korean Urban Environments
Sungmin Kim, Inha University, Republic of Korea

PT01_1495
(Scientific)

Developing a Data-Driven Framework for Assessing Pedestrian Safety Measures at Intersections: A Microsimulation Approach
Chi-Hsuan Wu, 3D Movement Co Ltd, Chinese-Taipei

Scientific Paper Sessions (SP)

SP006	Resilience
Oct 19(Mon) 11:30-12:30, Room 307, Convention Center	
Moderator	Susan Harris ITS Australia, Australia
PT04_1475 (Scientific)	Enhancing Traffic Management Resilience During Consecutive Holidays Using ETAG Data Analysis: A Case Study of the Suhua Corridor Chung Yu Han , CECI Engineering Consultants Inc, Chinese-Taipei
PT04_1904 (Scientific)	Enhancing Urban Evacuation through Infrastructure-less VANET-based Routing Systems Harith Abdulsattar , McMaster University, Canada
PT01_1810 (Scientific)	Disaster Risk-Informed Community Isolation Forecasting and Resilience-Oriented Autonomous Robot Supply Transport Strategies Sangmin Lee , Keimyung University, Republic of Korea
PT01_1892 (Scientific)	A Privacy-Preserving Architecture for V2X-Based Electronic Toll Collection Hoonyong Park , Autocrypt, Republic of Korea

SP007	Traffic Management - Traffic Optimization
Oct 19(Mon) 11:30-12:30, Room 306, Convention Center	
Moderator	Sangmin Park Korea Transport Institute, Republic of Korea
PT04_1531 (Scientific)	An MILP-based Integrated Framework for Joint Optimization of Dynamic Lane Allocation and Pricing for CAVs in Mixed Traffic Networks Suyeon Lee , University of Seoul, Republic of Korea
PT04_1535 (Scientific)	A Hybrid Calibration Framework for Microscopic Traffic Models Adaptable to Varying Maneuvers of Drivers and Traffic Flow Hyeokju Nam , University of Seoul, Republic of Korea
PT04_1676 (Scientific)	Estimating Characteristics of Multi-Level Traffic Flow Based on Partial Trajectories Monitored by LiDAR Sensors Equipped on Autonomous Vehicles and Loop Detectors Jiwon Park , University of Seoul, Republic of Korea

Scientific Paper Sessions(SP)

SP008	Route Planning & Demand Forecasting
Oct 19(Mon) 14:00-15:00, Room 109, Convention Center	
Moderator	Sungtaek Choi Hanyang University, Republic of Korea
PT04_1708 (Scientific)	A Personalized Route Generation Method Based on Inverse Reinforcement Learning Considering Driver's Trip Purpose Jeongwoo Han , Hannam University, Republic of Korea
PT03_1720 (Scientific)	Learning Personalized Multimodal Route Rankings from Implicit User Choices under Label Constraints Eui-Jin Lee , Seoul National University, Republic of Korea
PT03_1827 (Scientific)	Development of Weather-Based Subway Demand Forecasting Models: An Analysis of Meteorological Impacts Chang Ho Jeong , Keimyung University, Republic of Korea

SP009	Simulation and Modelling of Mobility Systems
Oct 19(Mon) 14:00-15:00, Room 108, Convention Center	
Moderator	Kar Man Karen Cheung Yunex Pte. Ltd., Singapore
PT01_1560 (Scientific)	Data-Driven Assessment of Railway Systems Resilience Under Operational Disruptions Dongmin Kim , University of Seoul, Republic of Korea
PT04_1623 (Scientific)	Recursive Neurosymbolic Repair of Household Travel Survey Records for Activity-Based Microsimulation Kervin Joshua Lucas , Korea Advanced Institute of Science and Technology, Philippines
PT01_1611 (Scientific)	A Deep Generative Model with Exploration and Preferential Return for Scalable Activity Scheduling Huichang Lee , Seoul National University, Republic of Korea

Scientific Paper Sessions (SP)

SP010	Using Data for Traffic Optimization
Oct 19(Mon) 14:00-15:00, Room 310, Convention Center	
Moderator	Jim Misener WSP USA, United States of America
PT01_1567 <i>(Scientific)</i>	Explicitly Accounting For Service Frequency In Nationwide Intercity Mode Choice Modeling Heejo Kim , University of Seoul, Republic of Korea
PT02_1592 <i>(Scientific)</i>	Analysis of Factors Influencing Metropolitan Railway Usage Based on Regional Characteristics Junyoung Kim , Myongji University, Republic of Korea
PT02_1633 <i>(Scientific)</i>	Impact of Subway Users' Latent Classes on the Variance Between Perceived and Actual Time Myoungsub Lee , Myongju University, Republic of Korea
PT01_1736 <i>(Scientific)</i>	Optimizing Skip-Stop Patterns Among Express Trains Using a Genetic Algorithm to Minimize Passenger Travel Time Yeonwoo Seo , Seoul National University, Republic of Korea

SP011	Mobility Choices for AMD by Elderly People - Aging Population
Oct 19(Mon) 14:00-15:00, Room 309, Convention Center	
Moderator	Eun Hak Lee Kyungil University, Republic of Korea
PT02_1880 <i>(Scientific)</i>	The Interaction Effect of Age and Local-Level Topographic Variability on Daily Trip-Making Among Older Adults Seungjin Jung , Seoul National University, Republic of Korea
PT01_1414 <i>(Scientific)</i>	Exploring the Travel Behavioral Differences for the Elderly Mobility on Public Transit Shin Hyung Cho , Hongik University, Republic of Korea
PT03_1805 <i>(Scientific)</i>	Spatiotemporal Demand Forecasting and Structural Imbalance Analysis in a GPS-Based Bike Sharing System Jaehong Jang , Hannam University, Republic of Korea
PT01_1484 <i>(Scientific)</i>	Creating Pedestrian-Friendly Public Space Areas: The Walkability Index Approach Sri Sarjana , Indonesian Land Transportation Polytechnic, Indonesia

Scientific Paper Sessions(SP)

SP012	Multi Model Safety Solutions
Oct 19(Mon) 14:00-15:00, Room 308, Convention Center	
Moderator	Ho-Chul Park Myongji University, Republic of Korea
PT01_1575 <i>(Scientific)</i>	A Dynamic Panel Analysis of National Rail Freight Share with a Focus on Carrier Size Jinwon Jang , University of Seoul, Republic of Korea
PT03_1821 <i>(Scientific)</i>	Analyzing the Psychological Determinants of Modal Choice: A Fuzzy TOPSIS-LCLV Approach for Users in Seoul Youngbeom Kim , The Seoul Institute, Republic of Korea
PT01_1748 <i>(Scientific)</i>	Data-Driven Analysis of Unlicensed Driver and Crash Risks Toward Evidence-Based Traffic Safety Education Policies Minjeong Kwon , Korea Road Traffic Authority, Republic of Korea
PT01_1717 <i>(Scientific)</i>	Assessing the Contribution of Rail-Based Freight Transport to National Decarbonization Targets through an Integrated Engineering and Policy Evaluation Tara Nyatichi Mongina Nyamwaro , Istanbul University Cerrahpasa, Kenya

SP013	Advances in Mobility Modellings
Oct 19(Mon) 15:30-17:00, Room 102, Convention Center	
Moderator	Sedong Moon Hanyang University ERICA, Republic of Korea
PT01_1661 <i>(Scientific)</i>	Latent Variable Discovery for Travel Mode Choice with Large Language Models Sung-Yoo Lim , Ajou University, Republic of Korea
PT01_1588 <i>(Scientific)</i>	Theory-Constrained Data-Driven Modeling of Multiple Discrete-Continuous Choices Huichang Lee , Seoul National University, Republic of Korea
PT02_1799 <i>(Scientific)</i>	Balancing Utility and Privacy of Mobility Data: Optimal Spatiotemporal Aggregation of High-Resolution CDR Data Kyu Sung Lee , Ajou University, Republic of Korea
PT03_1859 <i>(Scientific)</i>	Characterizing Spatiotemporal Patterns of Shared Micro-Electric Vehicle Charging and Usage Behavior: Evidence from a Multi-City Pilot Project Min Kim , Korea Advanced Institute of Science and Technology, Republic of Korea

Scientific Paper Sessions (SP)

SP015	
Controlling Automated Vehicles by Various Strategy	
Oct 20(Tue) 11:00-12:30, Room 309, Convention Center	
Moderator	Eui-Jin Kim Ajou University, Republic of Korea
PT01_1816 <i>(Scientific)</i>	Scenario Execution Route Optimization Using a Hybrid Genetic Algorithm-Integer Programming Framework Joonho Park , Ajou University, Republic of Korea
PT01_1823 <i>(Scientific)</i>	Telco API-Integrated Hierarchical In-Vehicle AI Agents Akira Ito , TOYOTA MOTOR CORPORATION, Japan
PT01_1652 <i>(Scientific)</i>	Context-Aware Lane Change Trajectory Prediction: Distinguishing Mandatory and Discretionary Maneuvers via Large Language Model Juyeong Kim , Ajou University, Republic of Korea
PT01_1442 <i>(Scientific)</i>	Minimum Risk Maneuvers for Autonomous Buses Under System Failures and Driver Unavailability Kun-Sheng Wang , Automotive Research & Testing Center, Chinese-Taipei
PT01_1607 <i>(Scientific)</i>	Enhancement of Autonomous Vehicle Platooning Considering V2X Communication Reliability in Mixed Traffic Environments Brian Kim , Seoul National University, Republic of Korea
PT01_1734 <i>(Scientific)</i>	Comprehensive Evaluation of a Hybrid Optimization-Based, Safety-Centric Lane-Changing Management Hao Yang , McMaster University, Canada
SP016	
Advanced Techniques to Improve Vehicle Flow	
Oct 20(Tue) 14:00-15:30, Room 309, Convention Center	
Moderator	Josh Johnson Southwest Research Institute SwRI, United States of America
PT01_1698 <i>(Scientific)</i>	Limited-Information Rerouting Using Probe Vehicle-Based Link State Estimation in Non-Recurrent Congestion Junghyun Chae , Seoul National University, Republic of Korea
PT01_1864 <i>(Scientific)</i>	Simulation-Based Dynamic Scheduling Optimization for Autonomous On-Demand Shuttles Services Donghee Oh , Hanyang University ERICA Campus, Republic of Korea
PT01_1783 <i>(Scientific)</i>	A Bi-Level Reinforcement Learning-Optimization Framework for Cost-Efficient Rebalancing in Autonomous Mobility-on-Demand System Jaeyun Kang , Seoul National University, Republic of Korea

Scientific Paper Sessions(SP)

PT01_1908 <i>(Scientific)</i>	Real-Time Alerting System for Teleoperated Driving Using Digital Twins under Latency Mariam Nour , Toyota Infotech Labs, United States of America
PT02_1757 <i>(Scientific)</i>	Household Activity Pattern Problem with Automated Vehicle-Enabled Intermodal Trips Younghun Bahk , Ajou University, Republic of Korea
PT01_1916 <i>(Scientific)</i>	Development of a Generalized Cost based Urban Air Mobility Demand Estimation Methodology Taewon Bang , Keimyung University, Republic of Korea
SP017	
Modal Choice and Mode Switching: Changes in Travel Behaviour	
Oct 20(Tue) 14:00-15:30, Room 307, Convention Center	
Moderator	Marcel Pooke Connected Places Catapult, United Kingdom (Great Britain and Northern Ireland)
PT02_1585 <i>(Scientific)</i>	Exploring Factors Affecting Intercity Travel Mode Choice: Focused on Bus Rapid Transit (BRT) Yumi Jeong , Hanbat National University, Republic of Korea
PT01_1631 <i>(Scientific)</i>	A Latent Class Model of Mode Choice at Smart Mobility Hubs: Implications for Sustainable Transport Integration Jiho Hong , Ajou University, Republic of Korea
PT03_1571 <i>(Scientific)</i>	Willingness to Temporarily Give Up a Private Car: Evidence from a Multi-Round Mobility Bundle Choice Experiment Among Urban Commuters Kathrin Viergutz , MILES Mobility GmbH, Germany
PT01_1817 <i>(Scientific)</i>	Analysis of Commuting Mode Switching Behavior Using Elicited Choice Probabilities Jinkyung Kim , Ajou University, Republic of Korea

Scientific Paper Sessions (SP)

SP018	Smart Infrastructure
Oct 20(Tue) 16:00-17:30, Room 308, Convention Center	
Moderator	Bhagawan Rokaha Mitsubishi Electric Corporation, Advanced Technology R&D Center, Japan
PT02_1782 (Scientific)	Enhancing Road Asset Management through a Citizen-Participatory Living Lab Framework Minsong Kim , Hanbat National University, Republic of Korea
PT02_1793 (Scientific)	Network Construction Strategies for the Activation of Autonomous Mobile Robots Seongjin Park , University of Seoul, Republic of Korea
PT02_1917 (Scientific)	Droneport Location and Routing Optimization for Two-Echelon Truck-UAV Logistics Network Taeseong Kim , Seoul National University, Republic of Korea
PT03_1632 (Scientific)	Vertical transfer choice and Transfer resistance in Deep and Urban rail stations Arin Kim , Kyonggi University, Republic of Korea
PT01_1425 (Scientific)	Operational Safety Assurance for Smart Traffic Signals Using High-Resolution SCATS Data Streams Masoud Nader Nezhad , KTC, Qatar

Scientific Paper Sessions(SP)

SP020	Smart Infrastructure for Traffic Management
Oct 21(Wed) 11:00-12:30, Room 308, Convention Center	
Moderator	Jinwoo Lee KAIST, Republic of Korea
PT04_1669 (Scientific)	Traffic and Emission Impacts of Delivery Riders’ Curbside Stops and Optimal Pickup-Zone Deployment Tae Young Kim , Kyonggi University, Republic of Korea
PT04_1898 (Scientific)	Adaptive Multi-View Vehicle Detection and Counting at Signalized Intersections Using YOLOv8: A Case Study from Istanbul Sevinc Ozgun , Istanbul Technical University, Turkiye
PT04_1653 (Scientific)	Spatio-temporal Classification of Traffic Impact Zones Using Unsupervised Anomaly Detection Sungmin Yoo , Ajou University, Republic of Korea
PT04_1459 (Scientific)	Evaluation of Driver Performance in Managing Control Parameters for Traffic Flow in ITS Rustam Khalilev , Azerbaijan Land Transport Agency, Azerbaijan
PT04_1912 (Scientific)	Reducing Parking Exit Bottlenecks through Automatic Payment: Evidence from 860,000 Exit Events in South Korea Kunwoo Kim , Kakao Mobility Corp, Republic of Korea
PT03_1911 (Scientific)	Impact of Mobile Automatic Payment on Parking Facility Usage: A Natural Experiment from South Korea Youngwook Koo , Kakao Mobility Corp, Republic of Korea

Scientific Paper Sessions (SP)

SP021 Public Transport Optimization	
Oct 21(Wed) 11:00-12:30, Room 307, Convention Center	
Moderator	Elias Zigah Université Paris-Saclay CentraleSupélec, France
PT01_1439 <i>(Scientific)</i>	About Software Defined Vehicles and Corporate Carbon Credits for Achieving Scope-3 Targets Ralf Willenbrock , ERTICO ITS EUROPE, Germany
PT03_1724 <i>(Scientific)</i>	Adaptive Bus Fleet Optimizations for No-Notice Emergency Evacuations with Deep Reinforcement Learning Paul Lin , Seoul National University, Republic of Korea
PT04_1851 <i>(Scientific)</i>	AI-Enabled Real-Time Curtailment Optimization for Schedule Recovery in Urban Bus Operations Reghu Anguswamy , Roads and Transport Authority, United Arab Emirates
PT01_1796 <i>(Scientific)</i>	An Analysis of Factors Influencing Bus Punctuality by Operating System, BRT and Non-BRT Jihyo Jung , DongA University, Republic of Korea
PT02_1697 <i>(Scientific)</i>	A Conditional Autoregressive Model for Daily Activity Schedule Generation Juyeon Cho , Seoul National University, Republic of Korea
PT04_1709 <i>(Scientific)</i>	Co-Development and Testing of Performance Indicators for AI-Enabled Transport Digital Twin in Liverpool and Busan Heeseo Kwon , University of Liverpool, United Kingdom (Great Britain and Northern Ireland)
SP022 The Hidden Impact: How ITS Is Reshaping Environment and Land Use	
Oct 21(Wed) 11:00-12:30, Room 306, Convention Center	
Moderator	Wooseok Do Keimyung University, Republic of Korea
PT01_1897 <i>(Scientific)</i>	An Operational Urban Air Quality Digital Twin for NOx Mapping Guillaume Sabiron , IFP Energies Nouvelles, France
PT04_1769 <i>(Scientific)</i>	A Network Theory Approach for Analyzing the Combined Impacts of Multiple Metro Stations on Land Prices Geonmin Kim , University of Seoul, Republic of Korea

Scientific Paper Sessions(SP)

PT01_1627 <i>(Scientific)</i>	A Study on Estimating Greenhouse Gas Emissions of Urban Buses Using the AFLEET Model Jae Young Chang , University of Seoul, Republic of Korea
PT01_1875 <i>(Scientific)</i>	Prioritizing Mobility Options in Medium-Sized Cities Using Analytic Hierarchy Process Minjun Seong , Keimyung University, Republic of Korea
SP023 Safety in ITS	
Oct 21(Wed) 14:00-15:30, Room 307, Convention Center	
Moderator	Akhilesh Srivastava ITS India Forum, India
PT04_1655 <i>(Scientific)</i>	Predicting Multimodal Future Trajectories of Child Pedestrians for Proactive Road Safety Sungmin Yoo , Ajou University, Republic of Korea
PT01_1791 <i>(Scientific)</i>	Understanding Freeway Crash Patterns under Different Traffic Conditions Jaehyeong Lee , Hannam University, Republic of Korea
PT01_1636 <i>(Scientific)</i>	Adaptive Multi-Modal YOLOv26 for Robust Nighttime Pedestrian Detection in Intelligent Transportation Systems Sachin Sakthi Kuppusami Sakthivel , Pukyong National University, India
PT01_1540 <i>(Scientific)</i>	AI-Based Approach for Early Traffic Incident Duration Prediction Vicente R. Tomas , University Jaume I, Spain
PT01_1496 <i>(Scientific)</i>	Implementation and Effectiveness Analysis of Smart Safety Intersections in Chiayi City, Taiwan Po-Tsung Huang , CECI Engineering Consultants Inc Taiwan, Chinese-Taipei
PT01_1443 <i>(Scientific)</i>	Revisiting the Homophily Assumption in Graph Neural Networks for Traffic Accident Prediction Junjie Hu , Institute of Transportation Engineering, Department of Civil Engineering Tsinghua University, China

Scientific Paper Sessions (SP)

SP024 Closing the Safety Gap: Strategies for Schools, Seniors and Beyond Oct 21 (Wed) 14:00-15:30, Room 306, Convention Center	
Moderator	Pai-Hsien Hung Feng Chia University, Chinese-Taipei
PT02_1886 <i>(Scientific)</i>	Exploring fatal/severe pedestrian injury crash frequency at school zone crash hotspots: using interpretable machine learning to assess the micro-level street environment Kaihan Zhang , Korea Advanced Institute Of Science And Technology KAIST, China
PT01_1798 <i>(Scientific)</i>	Analyzing Drivers’ Behavioral Responses To Lane Reduction “Road Diet” Minji Kim , Hanbat National University, Republic of Korea
PT01_1683 <i>(Scientific)</i>	E-Scooter Crash Analysis Using Decision Trees: Insights from Road Crash Data Jihyun Kim , University of Seoul, Republic of Korea
PT01_1714 <i>(Scientific)</i>	Cost-Benefit Analysis of Pedal Misapplication Prevention Systems: Considering Subsidy Scenarios Dongyeop Sin , Keimyung University, Republic of Korea
PT01_1865 <i>(Scientific)</i>	Spatial Data-Driven Analysis of Factors Influencing Traffic Accidents on General National Highways: Focusing on the Jeolla Region and Gwangju Metropolitan City Yong Jin Park , University of Seoul, Republic of Korea
PT01_1835 <i>(Scientific)</i>	Differences in Latent Crash Risk Across Different Age Groups using Bayesian Hierarchical Modeling Approach Kang Yeop Lee , Hanyang University, Republic of Korea
SP025 Enhanced Safety Oct 21 (Wed) 16:00-17:30, Room 307, Convention Center	
Moderator	Sanjay Bandopadhyay Supreme Court Committee on Road Safety, India
PT01_1924 <i>(Scientific)</i>	Smart Crosswalk Installation Before-After Traffic Safety Effect Analysis Min Junsik , University of Seoul, Republic of Korea
PT01_1879 <i>(Scientific)</i>	From Signs to Smart Infrastructure: A Systematic Review of Nudging, Persuasion, and Behavioral Design Interventions in Pedestrian Road-Crossing Mega Suryandari , Indonesian Land Transport Polytechnic, Indonesia

Scientific Paper Sessions(SP)

PT01_1829 <i>(Scientific)</i>	Evaluation of the Effect of ITS Smart Poles on Reducing Intersection Safety-Critical Events Shingo Sumi , Panasonic System Networks RD Lab Co Ltd, Japan
PT01_1656 <i>(Scientific)</i>	Safety Assessment of Vehicle–Pedestrian Interactions at Intersections Using Attention-Map Clustering with the VQ-VAE-Transformer Model Sungjin Yoon , Kyonggi University, Republic of Korea
PT04_1545 <i>(Scientific)</i>	High-Precision Trajectory-Based Surrogate Safety Analysis on Motorcycle Left Turn Strategies Kuan-Yao Wang , China Engineering Consultants Inc, Chinese-Taipei
SP026 Automated Mobility: Socio-Demographic and Economic Realities Oct 21 (Wed) 16:00-17:30, Room 306, Convention Center	
Moderator	Kun-Feng Wu National Yang Ming Chiao Tung University, Chinese-Taipei
PT01_1538 <i>(Scientific)</i>	Autonomous Public Transport in Cities: An Integrated Socio-Economic Evaluation Framework for Policy Decision-Making Mengxuan Li , Chunghua Institution For Economic Research, Chinese-Taipei
PT03_1564 <i>(Scientific)</i>	Context Matters: Strategies of Autonomous Vehicles in Public Transport – A Comparative Analysis Martina Hekler , Hamburg University of Technology, Germany
PT04_1456 <i>(Scientific)</i>	Research on Taiwan’s Autonomous Vehicle Innovation Sandbox and Empirical Operation Promotion Program Chih-Han Chang , Metal Industries Research Development Centre, Chinese-Taipei
PT01_1860 <i>(Scientific)</i>	Is Truck Autonomy on the Horizon? The Stated Preferences of Chinese Truck Drivers and Fleet Managers Caiyin Dong , Korea Advanced Institute of Science and Technology, China
PT03_1660 <i>(Scientific)</i>	Generational Shifts in Autonomous Child Transport Reuben Tamakloe , Korea Advanced Institute of Science and Technology, Republic of Korea

Scientific Paper Sessions (SP)

SP027 Traffic and Trajectory - Macro and Micro Modellings Oct 22(Thu) 11:00-12:30, Room 307, Convention Center	
Moderator	Hwapyeong Yu Myongji University, Republic of Korea
PT02_1767 <i>(Scientific)</i>	Reconstructing Micro-Scale Traffic Volumes from Biased Probe Vehicle Data: A Generative Trajectory Augmentation Approach Junmin Lim , Ajou University, Republic of Korea
PT01_1601 <i>(Scientific)</i>	Physics-informed Traffic State Estimation Based on Macroscopic Fundamental Diagrams Sewon Choi , Seoul National University, Republic of Korea
PT02_1658 <i>(Scientific)</i>	Spatially-Agnostic OD Flow Updates: Ensuring Model Resilience against Concept Drift in New York City Chanyong Chung , Ajou University, Republic of Korea
PT01_1687 <i>(Scientific)</i>	Balancing Metamodel Accuracy and Optimization Tractability in OD Matrix Estimation: A Kolmogorov-Arnold Networks Approach Donggyu Min , Seoul National University, Republic of Korea
PT01_1725 <i>(Scientific)</i>	Quantum-Inspired Model for Vehicle Trajectory Reconstruction on Highway Junhee Choi , Seoul National University, Republic of Korea
PT01_1582 <i>(Scientific)</i>	Traffic Volume Estimation on Urban Expressways Using Inter-Vehicle Gaps Masahiro Kuwahara , Toyota Motor Corporation, Japan
SP028 Automating Perception Oct 22(Thu) 14:00-15:30, Room 307, Convention Center	
Moderator	Nobuyuki Ozaki Nagoya University, Japan
PT01_1432 <i>(Scientific)</i>	Data driven Detection of Unusual Congestion zones in Urban Networks Sideney Schreiner , PTV Group, Brazil
PT02_1527 <i>(Scientific)</i>	Words Matter: Prompt Engineering for Zero-Shot Object Detection in ITS Seonggyun Jeong , LOTTE INNOVATE, Republic of Korea

Scientific Paper Sessions(SP)

PT02_1612 <i>(Scientific)</i>	An Adaptive Audio Framework for Vehicle Detection and Classification Hailey Hyosun Yoo , University of Melbourne, Australia
PT03_1525 <i>(Scientific)</i>	A Scenario-Driven Multi-Stage Pipeline for Robust Korean Automatic License Plate Recognition Dongho Lee , LOTTE INNOVATE, Republic of Korea
PT04_1790 <i>(Scientific)</i>	Conditional VAE for Trajectory Prediction near Bus Rapid Transit Stations Geo Lee , Korea University, Republic of Korea
PT01_1780 <i>(Scientific)</i>	Video Retrieval System for Connected Vehicles Katsuaki Kawashima , TOYOTA MOTOR CORPORATION, Japan
SP029 ITS Application & Future Mobility -01 Oct 22(Thu) 14:00-15:30, Room 306, Convention Center	
Moderator	Soomin Woo Konkuk University, Republic of Korea
PT01_1642 <i>(Scientific)</i>	Network-Level Volume-Delay Function Parameter Calibration via Path-Based Proxy Gradients Jeric Kim , Seoul National University, Republic of Korea
PT01_1659 <i>(Scientific)</i>	Development of Advanced Management Techniques to Improve Visibility of Expressway Pavement Markings Hyung Bae Kim , Korea Expressway corporation, Republic of Korea
PT01_1699 <i>(Scientific)</i>	Analysis of Driver's Behavior within the Permission Section for Lane Change of Underground Freeway Juehyun Lee , University of Seoul, Republic of Korea
PT01_1706 <i>(Scientific)</i>	Data-Driven Assessment of High-risk Elderly Drivers in Controlled Environments Sooncheon Hwang , University of Seoul, Republic of Korea
PT01_1515 <i>(Scientific)</i>	The Impact of Freight Automation on Urban Mobility: A Comparative Study of Chicago and Dallas-Fort Worth Joshua Auld , Transportation Systems & Mobility, Argonne National Laboratory, United States of America
PT01_1891 <i>(Scientific)</i>	Empirical Analysis of Crash Severity Risk Among Older Drivers: Implications for Cognitive-Based License Management Soohee Kim , Korea ROAD Traffic Authority, Republic of Korea

Scientific Paper Sessions (SP)

SP030 Driving Behavior Modeling Oct 22(Thu) 16:00-17:30, Room 307, Convention Center	
Moderator	Ying Shaowei NCS, Singapore
PT01_1740 <i>(Scientific)</i>	A Multidimensional Analysis of Driver Decision-Making under Adaptive AR-HUD Navigation Jungyoon Kim , Korea Advanced Institute of Science and Technology, Republic of Korea
PT02_1813 <i>(Scientific)</i>	Analyzing Travel Decision-Making from In-Situ Public Transit Voice Narratives Using LLMs Jisu Kim , Ajou University, Republic of Korea
PT01_1478 <i>(Scientific)</i>	A Vision-Based Multi-Cue Framework for Driver Fatigue and Drowsiness Detection Using Visual Behavioral Indicators Ravi Shankar K V R , National Institute of Technology Warangal NIT Warangal India, India
PT01_1845 <i>(Scientific)</i>	Structural Characterization of Driving Behavior Composition in Real-World Trajectory Data Ji Hye You , Ajou University, Republic of Korea
PT01_1530 <i>(Scientific)</i>	Task-Oriented Driving Video Transmission via Offline Large Language Model Guidance and Lightness-Only Coding Zengrui Zhao , The University of Electro Communications, Japan
SP031 ITS Application & Future Mobility -02 Oct 22(Thu) 16:00-17:30, Room 306, Convention Center	
Moderator	Euntak Lee Korea University, Republic of Korea
PT01_1797 <i>(Scientific)</i>	An Advanced Driving Risk Field for Identifying Diverse Types of Crash Risk at Signalized Intersection Nuri Park , Hanyang University, Republic of Korea
PT01_1887 <i>(Scientific)</i>	Development of Safety Performance Functions and Risk Assessment for Metro Escalators: A Case Study of Daegu Using Negative Binomial Regression Seungwon Kang , Keimyung University, Republic of Korea
PT03_1820 <i>(Scientific)</i>	Pre-Deployment Forecasting under Choice-Set Expansion with RP-SP Integration: Transfer of Latent Persona Mixtures (with an Optional LLM-Based Choice Kernel) Chanwoo Moon , Korea Advanced Institute of Science and Technology, Republic of Korea

Scientific Paper Sessions(SP)

PT01_1855 <i>(Scientific)</i>	On the Development of an Automated Traffic Rule Formalisation Framework to Support the Safety of Automated Driving Systems Hari Subraveti , TNO, Netherlands
PT01_1648 <i>(Scientific)</i>	Spatiotemporal Impacts of Heatwaves on Intersection-Level Traffic Accidents in Busan Mingyu Sung , Pusan National University, Republic of Korea
SP032 Traffic Management -01 Oct 23(Fri) 09:00-10:30, Room 309, Convention Center	
Moderator	Jinuk Hwang Pusan National University, Republic of Korea
PT01_1876 <i>(Scientific)</i>	Risk Perception and Compliance at Signalized Pedestrian Crossings in Intelligent Transportation Systems: A Systematic Literature Review Penni Cahyani , Universitas Indonesia, Indonesia
PT01_1803 <i>(Scientific)</i>	Evaluation of Reinforcement Learning-based Multi-Lane Variable Speed Limit Control for Traffic Flow Stability Enhancement Kawon Kang , Hanyang University, Republic of Korea
PT01_1763 <i>(Scientific)</i>	Data-Driven Identification of Dedicated Truck Lane Segments: Where Can Freight Efficiency Be Maximized? Hyeongho Cho , Keimyung University, Republic of Korea
PT01_1609 <i>(Scientific)</i>	Optimizing Freeway Merging Operations in Mixed Traffic Environments Using Ensemble-Based Model Predictive Control for Variable Speed Limit and Ramp Metering Jiwon Kim , Seoul National University, Republic of Korea

Scientific Paper Sessions (SP)

SP033	Traffic management -02
Oct 23(Fri) 11:00-12:30, Room 309, Convention Center	
Moderator	Junghwa Kim Kyonggi University, Republic of Korea
PT01_1603 <i>(Scientific)</i>	Route-Level Traffic Generation Using Recursive Inference Model Seung-Hyeon Lee , Seoul National University, Republic of Korea
PT04_1824 <i>(Scientific)</i>	Integrating Deep Generative Population Synthesis and Agent-Based Simulation for Travel Demand Forecasting Sangkuk Kim , Korea University, Republic of Korea
PT03_1923 <i>(Scientific)</i>	Conformal Model Predictive Control For Vehicle-To-Grid Scheduling Under Uncertain Departure Times Jeongsik Yun , Konkuk University, Republic of Korea
PT04_1874 <i>(Scientific)</i>	Advances in Spatiotemporal Deep Generative Modeling for Traffic State Imputation Mahdi Khorasani , Korea Advanced Institute of Science and Technology, Iran (Islamic Republic of)
PT01_1610 <i>(Scientific)</i>	Generative Data Augmentation of Freeway Traffic Data under Imbalanced Congestion Patterns for Short-Term Traffic Speed Prediction Jiwon Kim , Seoul National University, Republic of Korea
PT03_1558 <i>(Scientific)</i>	Variance-based Speed-Congestion Model for Predictive Data-Driven Traffic Resource Management: A Singapore Case Study Qian Li , Land Transport Authority, Singapore

Technical Paper Sessions (TP)

TP001	Advanced Satellite and Terrestrial Communication Providing Connectivity for Smart Mobility
Oct 19(Mon) 11:30-12:30, Room 107, Convention Center	
Moderator	Sehyun Park Korea Institute of Civil Engineering and Building Technology, Republic of Korea
PT01_1870 <i>(Technical)</i>	Enhancing Communication Infrastructure Performance through Lane-Based Layered Mesh Architecture Kyungduk Seo , Korea Intelligent Automotive Parts Promotion Institute, Republic of Korea
PT01_1756 <i>(Technical)</i>	Field Experimental Validation of 5G-NR-V2X Sidelink Video Transmission Performance Giho Koh , ETRI, Republic of Korea
PT01_1733 <i>(Technical)</i>	Towards a Scalable C-ITS Deployment Methodology: A Case Study for Ireland Munya Mutyora , Arup, Ireland
TP002	Social Impact Using Automated Vehicle Services
Oct 19(Mon) 11:30-12:30, Room 103, Convention Center	
Moderator	Stephane Dreher ERTICO ITS Europe, Belgium
PT03_1467 <i>(Technical)</i>	Economic Feasibility and Fleet Optimization of Autonomous Shuttle Services in Rural Areas: A Connected Mobility Approach for Hadong County Yeowon Yoon , Sogang University, Republic of Korea
PT02_1840 <i>(Technical)</i>	Go Beyond the Technology: The Broad Societal Impacts of Automated Mobility Henri Sintonen , VTT Technical Research Centre of Finland Ltd., Finland
PT04_1599 <i>(Technical)</i>	Analysis on Social Acceptance of Continuous Autonomous Bus Operation in Gifu City Yukiko Ozawa , Gifu University, Japan
PT01_1453 <i>(Technical)</i>	Guided Visualization for Intelligent Transport Systems: Transforming Data Into Sustainable Mobility Insights Yared Tekalign Tuji , Ethiopian Roads Administration, Ethiopia

Technical Paper Sessions (TP)

TP003 Improving Autonomous Driving via Scenarios, Transfer Learning and Simulations Oct 19(Mon) 11:30-12:30, Room 104, Convention Center	
Moderator	Dongju Ka Korea Expressway Corporation, Republic of Korea
PT01_1431 <i>(Technical)</i>	Using Microscopic Traffic Simulation to Generate Critical Scenarios for Resimulation in the Development of Automated Vehicles Mototsugu Miura , PTV Group Japan Ltd, Japan
PT01_1608 <i>(Technical)</i>	Improving Autonomous Driving Safety through V2V Communication Reliability in Mixed Traffic Environments Brian Kim , Seoul National University, Republic of Korea
PT01_1606 <i>(Technical)</i>	Sim-To -Real Transfer Learning for Vehicle Trajectory Prediction via Gated Spatiotemporal Attention Seung-Hyeon Lee , Seoul National University, Republic of Korea
PT01_1578 <i>(Technical)</i>	A Scenario-Driven Framework for Phase Classification in Cooperative Driving Automation with a Three-Tier Architecture Junhyeong Moon , Kyonggi University, Republic of Korea
TP004 Green ITS for Mass Transit Systems, E-buses, E-scooters, and Smart Energy Management Oct 19(Mon) 11:30-12:30, Room 301, Convention Center	
Moderator	Eunjeong Ko Hannam University, Republic of Korea
PT01_1483 <i>(Technical)</i>	Mitigating Greenhouse Gas Emissions through the Adoption of Smart and Green Mass Transit Systems in Hong Kong Lin Lin , 3D Movement Company Limited, Chinese-Taipei
PT01_1751 <i>(Technical)</i>	Reference Model of Data Platform for Energy-Based Green ITS Services Jeong Eun Joo , ITS Korea, Republic of Korea
PT03_1486 <i>(Technical)</i>	Strategic Assessment of Kicksharing Implementation to Support Green Mobility Ahyani Ahyani , Indonesian Land Transportation Polytechnic STTD, Indonesia
PT01_1871 <i>(Technical)</i>	From Bus Electrification to Automated Depot Operations: Towards Efficient and Scalable Public Transport Systems Marcin Seredynski , University of Luxembourg, Luxembourg

Technical Paper Sessions (TP)

TP005 Accessibility and Safety Enhancement with Implementation of New Mobility Solutions Oct 19(Mon) 11:30-12:30, Room 310, Convention Center	
Moderator	Tiantian Chen KAIST, Republic of Korea
PT01_1641 <i>(Technical)</i>	UWB Based VRU Detection and Tracking for Complex Urban Scenarios Tim Leinmueller , DENSO AUTOMOTIVE Deutschland GmbH, Germany
PT02_1877 <i>(Technical)</i>	How to Ensure Accessibility for All in Evolving Transport System Eetu Pilli-Sihvola , VTT, Finland
PT04_1506 <i>(Technical)</i>	Kinmen County Island-Based Intelligent Transportation System Development Plan Wei-Che Hsu , CECI Engineering Consultants Inc, Chinese-Taipei
TP006 Demand-Response Services and Trip Planning Oct 19(Mon) 11:30-12:30, Room 309, Convention Center	
Moderator	Bob McQueen Bob McQueen and Associates, United States of America
PT03_1586 <i>(Technical)</i>	Regional Paratransit Interoperability: A Standards-Based Approach to Cross-Agency Trip Coordination Santosh Mishra , Flexlynqs, United States of America
PT03_1807 <i>(Technical)</i>	Identifying Priority Road Segments for Operational Review of DRT Using Recurrent Request Analysis Jinwoo Park , Kyonggi University, Republic of Korea
PT03_1732 <i>(Technical)</i>	Collaborative Intelligence for Trip Planning Optimization Kyungtae Han , Toyota Motor North America, United States of America
PT03_1441 <i>(Technical)</i>	Operational MaaS in Practice: The Taichung Go Dashboard and Data Governance Issues Huang-Sheng Wu , Feng Chia University, Chinese-Taipei

Technical Paper Sessions (TP)

TP007 Advanced Management	
Oct 19(Mon) 11:30-12:30, Room 305, Convention Center	
Moderator	Chia-Chen Wu Feng Chia University, Chinese-Taipei
PT01_1529 <i>(Technical)</i>	Data Quality Verification Method and Its Operation for Weigh-in-Motion (WIM) Systems Hiroaki Miyamoto , OMRON SOCIAL SOLUTIONS CO LTD, Japan
PT01_1451 <i>(Technical)</i>	Allocation and Capacity Planning for E-Truck Charging Stations over TEN-T in Alignment with AFIR Sida Jiang , WSP Sverige AB, Sweden
PT01_1581 <i>(Technical)</i>	Advancing Freeway Management in Taiwan: Enhancing Efficiency and Safety through Weigh-in-Motion (WIM) Systems Chengchuan Chien , FETC International Co Ltd, Chinese-Taipei
PT01_1524 <i>(Technical)</i>	PoC of IoT Intelligent Track Management for Rail Depots Hui-Sheng Feng , Taiwan Railway Corporation Ltd, Chinese-Taipei
TP008 GNSS, V2X, Digitalisation	
Oct 19(Mon) 14:00-15:00, Room 102, Convention Center	
Moderator	Younghun Bahk Ajou University, Republic of Korea
PT04_1492 <i>(Technical)</i>	Generating Highway Work Zone Information Using GNSS and High-Definition Maps Young Min Kwon , Bamboos, Republic of Korea
PT04_1460 <i>(Technical)</i>	Interference-Aware Operation of Tunnel GNSS Re-Radiation Jihoon Ryoo , SUNY Korea, Republic of Korea
PT04_1721 <i>(Technical)</i>	Field Measurements of SLSS-Based V2V and V2I in Tunnel Environments Daegun Jang , wayties Inc, Republic of Korea
PT04_1643 <i>(Technical)</i>	Digitalising Traffic Regulation Orders: Delivery of a Public Beta Service Paul Chandler , Department for Transport UK, United Kingdom (Great Britain and Northern Ireland)

Technical Paper Sessions (TP)

TP009 ITS for Pedestrians & Bicycles	
Oct 19(Mon) 14:00-15:00, Room 103, Convention Center	
Moderator	Evangelia Latsa NTUA, Greece
PT01_1635 <i>(Technical)</i>	A Virtual Sensor for Real-Time Detection of Conflict between Pedestrians under Dynamic Risk Conditions Gayeong Moon , University Of Seoul, Republic of Korea
PT01_1476 <i>(Technical)</i>	The Current State of Bicycle Roadway Use in Tokyo and ITS Technologies for Bicycle Safety Masahiro Ishikawa , Tokyo Metropolitan Police Department, Japan
PT03_1596 <i>(Technical)</i>	Challenges of Cycling Data and Metrology of New Mobility Jeremie Bossu , Cerema, France
TP010 Advanced Traffic and Parking Management	
Oct 19(Mon) 14:00-15:00, Room 104, Convention Center	
Moderator	Murphy Sun Sun Ai, Chinese-Taipei
PT04_1471 <i>(Technical)</i>	Integration and Application of Digital Twin for Traffic Management of Large-Scale Events Wan-Ting Hu , Feng Chia University, Chinese-Taipei
PT03_1704 <i>(Technical)</i>	Turning Regional Data into Multimodal Operations Kevin Miller , Southwest Research Institute, United States of America
PT04_1436 <i>(Technical)</i>	The Impact of Geomagnetic Sensor-Based Smart Parking Systems on Urban Traffic and Operational Management: A Quantitative Analysis Based on Taichung City Chia-Chen Wu , Feng Chia University, Chinese-Taipei
PT04_1518 <i>(Scientific)</i>	Electronic Parking System Using 2.4 GHz DSRC and On-Board Unit Clement Tan , Mitsubishi Heavy Industries Asia Pacific Pte Ltd, Singapore

Technical Paper Sessions (TP)

TP011 Vehicle Teleoperations & Communications	
Oct 19(Mon) 14:00-15:00, Room 301, Convention Center	
Moderator	Taeho Oh KAIST, Republic of Korea
PT01_1429 <i>(Technical)</i>	Implementing a Practical Testing Methodology for Vehicle Communication Security Compliance: A Dual-Layer Approach for CAN and V2V Networks Kun-Sheng Wang , Automotive Research & Testing Center, Chinese-Taipei
PT01_1743 <i>(Technical)</i>	Advance Telematic Solution for Public Transport Bus Fleet Operational & Maintenance Excellence Musthafa Ibrahim Saleem Basha , Road Transport Authority Dubai, Singapore
PT04_1901 <i>(Technical)</i>	Discrete Driving Tokens for Bandwidth-Efficient World Modeling and Connected Perception Kyungtae Han , Toyota Infotech Labs, United States of America
PT04_1624 <i>(Technical)</i>	Architecture of Tele-operated Driving (ToD) Assistance based an Open-Source Virtual Twin Framework Keonil Kim , AVGenius, Republic of Korea
TP012 New Technologies Call for New Benchmarks: Adapting for Today	
Oct 19(Mon) 14:00-15:00, Room 307, Convention Center	
Moderator	Moe Zarean Iteris, Inc., United States of America
PT01_1553 <i>(Technical)</i>	Automating Compliance Process for CAV Homologations Beatriz Malpartida Lopez , Applus IDIADA, Spain
PT04_1587 <i>(Technical)</i>	WHEELS: A Federated Framework for Transportation Interoperability Enabling AI-Native Coordination Santosh Mishra , Flexlynqs, United States of America
PT03_1528 <i>(Technical)</i>	Demand Modeling with Zero-Inflation for Automated Bus Services: A Comparison of Zero-Inflated Model and Machine Learning-Based Hurdle Model Hyundo Kang , Nagoya University, Republic of Korea
PT02_1647 <i>(Technical)</i>	Establishment and Validation of an Industrial Special Classification System for Intelligent Transport Systems (ITS) Hyungsuk Lee , ITS Korea, Republic of Korea

Technical Paper Sessions (TP)

TP013 Automated Driving Cybersecurity Worldwide Policy Framework	
Oct 19(Mon) 14:00-15:00, Room 306, Convention Center	
Moderator	Juha Saarnio Finland Huawei, Finland
PT01_1554 <i>(Technical)</i>	The DCAS Bridge: Understanding Regulatory Progression from Traditional ADAS to Full Automotive Automation Carlos Lujan Tutusaus , Applus IDIADA, Spain
PT01_1566 <i>(Technical)</i>	A Regulatory Analysis of Automated Driving Vehicles in the EU Carlos Lujan Tutusaus , Applus IDIADA, Spain
PT01_1555 <i>(Technical)</i>	Cybersecurity Compliance: UN R155 and the Emerging Challenges Oriol Flix , Applus IDIADA, Spain
TP015 Traffic Flow Optimisation	
Oct 20(Tue) 14:00-15:30, Room 306, Convention Center	
Moderator	Hiroyuki Kumazawa Osaka Sangyo University, Japan
PT01_1690 <i>(Technical)</i>	Proposal and Feasibility Assessment of an AI-Based Traffic Signal Control Platform Noriyuki Tsukada , TBD, Japan
PT02_1559 <i>(Technical)</i>	AI-Assisted Image and Text Recognition of Traffic Signal Phase Diagrams for Junction Performance Analysis Qian Li , Land Transport Authority, Singapore
PT01_1722 <i>(Technical)</i>	Multi-Modal Mobility Dynamic Incentivization - An Enhanced Approach to Travel Demand Management Aafiya Shah , Kapsch TrafficCom USA Inc, United States of America
PT01_1645 <i>(Technical)</i>	AI-Guided Optimization for Daily Bus Allocation Minimizing Fuel Consumption Reghu Anguswamy , Roads and Transport Authority, United Arab Emirates
PT03_1444 <i>(Technical)</i>	The AI application on pavement surface monitoring work for pursuing automated HPMS area Ki Hoon Moon , Korea Expressway Corporation, Republic of Korea

Technical Paper Sessions (TP)

TP016	AI & Data for Traffic Safety
Oct 20(Tue) 16:00-17:30, Room 306, Convention Center	
Moderator	Jiho Yeo Gachon University, Republic of Korea
PT01_1418 <i>(Technical)</i>	Cloud-Based ATMS Security Compliance: A Digital Infrastructure Imperative Dario Menichetti , PTV Group, Italy
PT01_1918 <i>(Technical)</i>	Risk Analysis of Various Crossing Scenarios for Child Pedestrians Nayeon Kim , University of Seoul, Republic of Korea
PT01_1729 <i>(Technical)</i>	Mixed-Type Data Augmentation for Imbalanced Highway Crash Severity Prediction Eun Jung Kim , Seoul National University, Republic of Korea
PT01_1718 <i>(Technical)</i>	Hybrid Traffic State Estimation with Microscopic Simulation on the Gyeongbu Expressway Jeric Kim , Seoul National University, Republic of Korea
TP017	Real Time Work Zone Information Warnings Using C-ITS
Oct 21(Wed) 14:00-15:30, Room 309, Convention Center	
Moderator	Guillermina Andrea Penaloza SINTEF, Norway
PT01_1613 <i>(Technical)</i>	Interpretation and Design Principles of Incident Warning UI/UX in a C-ITS Pilot Environment — Focusing on Digital Twin-Based UI/GUI Design Outcomes from the APEC Summit Demonstration Section — Hyonjun Kang , BAMBOOS Co., Republic of Korea
PT01_1509 <i>(Technical)</i>	The New IoT Intelligent Device for Road Work Zone Signalling: IoT-Enabled Connected Cones Montserrat Estaca , Directorate General of Traffic DGT, Spain
PT01_1899 <i>(Technical)</i>	Temporal Deep Reinforcement Learning for Cooperative Control in Connected Work Zones Chase Waelbroeck , Florida Polytechnic University, United States of America
PT04_1594 <i>(Technical)</i>	Field Operational Test of Merging Support Information Provision System for Automated Vehicles on Urban Expressway Masakazu Kawasaki , Hanshin Expressway Company Limited, Japan
PT04_1498 <i>(Technical)</i>	Cooperative Intelligent Transport Systems: Enhancing Safety in Construction Sites Jo Skjermo , SINTEF AS, Norway

Technical Paper Sessions (TP)

TP018	Advanced Use of ADAS Systems to Improve Safety in an Advanced Mobility World
Oct 19(Mon) 15:30-17:00, Room 103, Convention Center	
Moderator	Aafiya Shah Kapsch TrafficCom USA Inc, United States of America
PT01_1428 <i>(Technical)</i>	Analysis of Traffic Flow Impact Based on Real-World Usage of ACC Using Connected Car Data Hironobu Kitaoka , Toyota motor corporation, Japan
PT01_1646 <i>(Technical)</i>	Connected Scene-Aware Conversational Advanced Driver Assistance Systems Kyungtae Han , Toyota Motor North America, United States of America
PT01_1689 <i>(Technical)</i>	A Road Traffic System Integrating DMS and Existing ADAS via AI Fusion Noriyuki Tsukada , TBD, Japan
PT01_1684 <i>(Technical)</i>	Advancing and Scaling CACC Through AI Cloud Servers Noriyuki Tsukada , TBD, Japan
TP019	Multimodal Sustainability & Safety
Oct 22(Thu) 11:00-12:30, Room 306, Convention Center	
Moderator	Steven Lui ITS Hong Kong, Hong Kong, China
PT04_1468 <i>(Technical)</i>	Digital Transformation of the Transport Sector Rustam Khalilev , Azerbaijan Land Transport Agency, Azerbaijan
PT01_1700 <i>(Technical)</i>	Developing a Risk Assessment Methodology for Bicycle Accidents Considering Severity-Based Road Type Weights Jaewan Lee , University of Seoul, Republic of Korea
PT01_1410 <i>(Technical)</i>	How Can Taiwan Escape Criticism of Being a “Pedestrian Hell”? – Taipei City Pedestrian-Friendly as an Example Huei Ju Huang , Taipei City Government, Chinese-Taipei
PT03_1500 <i>(Technical)</i>	Cloud Platform Architecture with PMO Governance for Railway Operations: A Case Study of Taiwan Railway Corporation Hao Ping Wu , CECI Engineering Consultants Inc Taiwan, Chinese-Taipei
PT01_1705 <i>(Technical)</i>	Evaluating the Effectiveness of Heavy-truck Bans on Expressway Crash Severity Using an EPDO Prediction and Synthetic Difference-in-differences Approach Chaeyoung Lee , University of Seoul, Republic of Korea

Technical Paper Sessions (TP)

TP020	Challenges in Transport Management System
Oct 22(Thu) 16:00-17:30, Room 308, Convention Center	
Moderator	Dwight Jordan TriStar Innovations, LLC, United States of America
PT03_1450 <i>(Technical)</i>	Dubai's AI-Powered Real-Time Multimodal Mobility Management System Dario Menichetti , PTV Group, Italy
PT03_1547 <i>(Technical)</i>	Introduction of a Roadside-Vehicle Cooperative System Sho Araki , Mitsubishi Heavy Industries Machinery Systems Ltd, Japan
PT03_1534 <i>(Technical)</i>	SCALE ITALY - Demonstration and Deployment of C-ITS Services Ilaria De Biasi , Autostrada del Brennero SpA, Italy
PT03_1512 <i>(Technical)</i>	Detour Awareness for TMCs Using Navigation App Routing Recommendations Kevin Miller , Southwest Research Institute, United States of America
PT03_1825 <i>(Technical)</i>	New Google Roads Management Insights and Tools: A Catalyst for Next Generation ITS Oliver Looker , NGIS, Australia
TP021	Challenges in Smart Infrastructure
Oct 23(Fri) 11:00-12:30, Room 308, Convention Center	
Moderator	Eun Jung Kim Seoul National University, Republic of Korea
PT03_1719 <i>(Technical)</i>	The Intelligent Backbone: Open Source Automation and Observability for Resilient ITS Network Infrastructure Josh Montgomery , Montgomery Network Automation Services, United States of America
PT02_1787 <i>(Technical)</i>	Genetic-Algorithm Optimization of Centroid-Connector for Traffic-Assignment Error Minimization A Jeju Island Case Study Sangkyu Lee , University of Seoul, Republic of Korea
PT01_1477 <i>(Technical)</i>	V2X Enabled Dynamic Road Safety Coupled with Nudging System for Rural Roads Djemre Ozmendji , IDIADA Automotive Technology SA, Spain
PT03_1701 <i>(Technical)</i>	Effects of Seat Removal on Boarding-Alighting Dynamics and In-Car Density in Metro Systems: Evidence from Seoul Line 4 Using Viswalk Simulation Byungkyu Kim , University of Seoul, Republic of Korea
PT01_1685 <i>(Technical)</i>	Climate-Resilient Road Design in Arid Regions: Practical Lessons from Wadi Al Sahtan, Oman Rania Al Maqbali , Ministry of Transport Communications and Information Technology, Oman

Technical Paper Sessions (TP)

TP022	ITS Application & Future Mobility
Oct 23(Fri) 11:00-12:30, Room 306, Convention Center	
Moderator	Minje Choi Kongju National University, Republic of Korea
PT01_1479 <i>(Technical)</i>	Safety Evaluation of Chevron Markings on an Expressway Using Probe Data Kohei Ichimura , Nippon Expressway Research Institute Company Limited, Japan
PT01_1693 <i>(Technical)</i>	Key Factors in Pedestrian Crash Severity at Junctions: An Explainable AI Urban-Rural Comparison Gangheon Kim , Seoul National University, Republic of Korea
PT01_1776 <i>(Technical)</i>	Traffic Performance Variation in Expressway Tunnels Based on Detector Observations Yunho Ju , Kyonggi University, Republic of Korea
PT04_1461 <i>(Technical)</i>	Electroencephalography-Based Driver Fatigue Detection: A Multi-Domain Feature and Model Evaluation Akinbobola Jegede , South Carolina State University, United States of America
PT04_1894 <i>(Technical)</i>	Multi-Agent and Geometry-Based Scenario Classification for Vehicle Trajectory Prediction in Urban Environment Beom Jin Park , Korea Univ, Republic of Korea

Scientific and Technical Paper Sessions (STP)

STP001	Using In Vehicle Sensors to Improve Safety
Oct 19(Mon) 11:30-12:30, Room 106, Convention Center	
Moderator	Jim Misener WSP USA, United States of America
PT01_1639 (Scientific)	Efficient Multimodal Driver Activity Recognition for Real-Time In-Vehicle Monitoring Antonios Lalas , Centre for Research and Technology Hellas, Greece
PT01_1542 (Scientific)	Robust Driver Gaze and Status Monitoring under Occlusion via Multimodal Fusion: Applications in Level 2/3 Driver Availability Chih-Yuan Hsu , Automotive Research Testing Center, Chinese-Taipei
PT01_1513 (Scientific)	Intelligent Vehicle Surveillance through Collaboration of Connected Vehicles Seyhan Ucar , Toyota Motor North America Research and Development, United States of America
PT01_1469 (Technical)	Trust, Comprehension, and Compliance in Pedestrian–Vehicle Communication: A Scoping Review of eHMI for Human–AV Safety Penni Cahyani , Indonesian Land Transport Polytechnic, Indonesia
STP002	V2X Technology for Simulation & Mapping
Oct 19(Mon) 11:30-12:30, Room 102, Convention Center	
Moderator	Juha Saarnio Huawei Technologies, Finland
PT04_1565 (Technical)	Pioneering the Implementation of a C-ITS in Taiwan: Construction and Standardization Verification of the D-City V2X Proving Ground Tzuchun Liu , Hwacom Systems Inc, Chinese-Taipei
PT01_1681 (Scientific)	Toward Reliable Vehicular Connectivity: A City-Scale Radio Map Generator Based on 3D Urban Geometry Fukuharu Tanaka , RIKEN Center for Computational Science, Japan
PT01_1842 (Technical)	A Study on a Crowdsourcing-Based HD Map Data Infrastructure Update Management System for Fully Autonomous Driving Support Euna Kim , ITS KOREA, Republic of Korea
PT01_1440 (Technical)	Enhancing Reliable CCAM Shuttle Operation through Artificial Landmarks - Architecture, Solutions and the R&D Project CCAM_ArtLand Markus Dorn , Onsite Data Intelligence GmbH, Austria

Scientific and Technical Paper Sessions (STP)

STP003	Smart Traffic Management
Oct 20(Tue) 11:00-12:30, Room 308, Convention Center	
Moderator	Pai-Hsien Hung Feng Chia University, Chinese-Taipei
PT04_1568 (Scientific)	Comparative Study of Generative AI-Driven Signal Control and Traditional Traffic Control Systems in Urban Corridors Minling Huang , HwaCom Systems Inc, Chinese-Taipei
PT04_1541 (Scientific)	Fast Adaptation under Spatial Dependency for Traffic Signal Control Jingjing Bao , The University of ElectroCommunications, Japan
PT04_1409 (Scientific)	Developing a Resource-Oriented Signal Decision Support Platform Based on Green Light Utilization Rate: From Algorithm Models to Visualization Applications Yen-Yu Tu , Feng Chia University, Chinese-Taipei
PT04_1415 (Scientific)	A Robust and Efficient Multi-Agent Reinforcement Learning Framework for Traffic Signal Control Ting-Han Wei , Kochi University of Technology, Chinese-Taipei
PT01_1766 (Scientific)	Integrating Road Diets with Autonomous Vehicles in Signalized Networks Kyungjun Mun , University of Seoul, Republic of Korea
PT01_1505 (Technical)	Application of Multi-Agent Reinforcement Learning to Urban Traffic Signal Control. Wei-Che Hsu , CECI Engineering Consultants Inc, Chinese-Taipei

Scientific and Technical Paper Sessions (STP)

STP004	Real Time Traffic Signal Adapting to Urban Environment
Oct 20(Tue) 14:00-15:30, Room 308, Convention Center	
Moderator	John Funny Grice Consulting Group, United States of America
PT04_1464 <i>(Scientific)</i>	A Practical Deployment Strategy for Max-Pressure Signal Control: Partial Observability and Budget Constraints Kien Ta Xuan , Viettel Business Solutions Corporation, Viet Nam
PT04_1902 <i>(Scientific)</i>	Network-Level Co-Optimization of Traffic Signals and Vehicle Trajectories for Connected and Automated Vehicles via Multi-Agent Reinforcement Learning: A Manhattan Network Case Study Seyhan Ucar , Toyota Motor North America, United States of America
PT04_1781 <i>(Scientific)</i>	Real-Time Traffic Signal Adapting to Urban Environment Dongjun Chu , Hanbat National University, Republic of Korea
PT04_1602 <i>(Scientific)</i>	Reinforcement Learning-Based Traffic Signal Optimization in Heterogeneous Traffic Conditions Ravi Shankar K V R , National Institute of Technology Warangal NIT Warangal India, India
PT04_1677 <i>(Technical)</i>	Towards Reality-Aligned Traffic Simulation and Control: Leveraging Path-Link Matrix Calibration and Multi-Bandwidth RL Chen Yu-Xuan , National Taipei University of Technology, Chinese-Taipei
STP005	Techniques to Jump our Automated Vehicle Driving
Oct 20(Tue) 16:00-17:30, Room 309, Convention Center	
Moderator	Changmook Kang Hanyang University, Republic of Korea
PT01_1487 <i>(Technical)</i>	Real-Time Tire–Road Friction Estimation for Autonomous Vehicle Trajectory Control Using Intelligent Tire Sensor Systems Ron Yoogun Lee , BANF, Republic of Korea
PT01_1848 <i>(Scientific)</i>	Development of a Multimodal VLM–LLM–Based Framework for Analyzing High-Risk Takeover Scenarios in Autonomous Buses Eunjoo Jung , Gachon University, Republic of Korea
PT01_1828 <i>(Scientific)</i>	Deep Learning-Based Dynamic Crash Risk Prediction under Autonomous Driving Environment Jeong Eun Joo , Hanyang University, Republic of Korea

Scientific and Technical Paper Sessions (STP)

PT01_1449 <i>(Scientific)</i>	Analysis of Trust in Advanced Driver-Assistance Systems of Motor Vehicles Quan Yu , North China University of Technology, China
PT01_1806 <i>(Scientific)</i>	Real-World Mapping of Operational Design Domain Risk Zones for Urban Autonomous Environmental Service Vehicle Eunho Lee , Ajou University, Republic of Korea
PT01_1852 <i>(Scientific)</i>	Enhancing String Stability In Automated Vehicles Using Adaptive Jerk Control Euntak Lee , Korea University, Republic of Korea
STP006	ADAS/AV Safety by Communications
Oct 21(Wed) 11:00-12:30, Room 309, Convention Center	
Moderator	Matthew Daus Windels Marx Lane & Mittendorf, LLP, United States of America
PT01_1752 <i>(Scientific)</i>	R2X-Based Robust Navigation System for Autonomous Mobile Robots in Urban Intersections Myeonghyeon Kim , Korea Advanced Institute of Science and Technology, Republic of Korea
PT01_1906 <i>(Scientific)</i>	Safety Benefits of ADAS and V2X Deployments: An Emergency Braking Case Study Mohammad Irfan Khan , Toyota Motor North America, United States of America
PT04_1584 <i>(Technical)</i>	Rapid Highway Information Dissemination Technology Based on Vehicle-Infrastructure-Cloud Cooperation: Architecture and Validation Ning Xie , China Academy of Information and Communication Technology, China
PT04_1868 <i>(Technical)</i>	I2X-Based Methodology for Traffic Safety Infrastructure Interconnection Jiwon Park , Korea Road Traffic Authority, Republic of Korea
PT01_1556 <i>(Technical)</i>	Bridging Connectivity Gaps for CCAM through Hybrid Terrestrial and Non-Terrestrial 6G Architectures Matti Kuttila , VTT Technical Research Centre of Finland Ltd, Finland

Scientific and Technical Paper Sessions (STP)

STP007 Methodological Challenges in Transport Management	
Oct 21 (Wed) 14:00-15:30, Room 308, Convention Center	
Moderator	Samgyu Yang Hanyang University, Republic of Korea
PT01_1915 <i>(Technical)</i>	Reverse Dijkstra and Ethical Eco-Routing: A Framework for Sustainable and Safe Navigation Guy Fournier , ULTIMO, University Paris-Saclay, France
PT01_1644 <i>(Technical)</i>	Data-Driven Identification of Incidents Affecting Traffic Flow under Faulty Sensor Data Sewon Choi , Seoul National University, Republic of Korea
PT02_1826 <i>(Technical)</i>	Efforts to Improve Traffic Efficiency on Urban Expressway Using All-Vehicle Trajectory Data Yuta Kataoka , Hanshin Expressway Co Ltd, Japan
PT01_1637 <i>(Technical)</i>	Crowd Analysis in Subway Platforms Via Semantic Segmentation and Perspective Compensation Hangyeol Cho , University of Seoul Department of Transportation Engineering, Republic of Korea
PT01_1909 <i>(Technical)</i>	Automatic Voxel Conversion Algorithm for High-Fidelity Indoor and Underground Evacuation Models: A Case Study of Seoul Station Jinwoo Lee , Yonsei University, Republic of Korea
PT04_1533 <i>(Scientific)</i>	Correlation-Aware Intelligent Parking Recommendation Using Real-Time Multi-Facility Availability Gaofei Sun , Suzhou University of Technology, China
STP008 Autonomous Control - Beyond the Safety Officer	
Oct 21 (Wed) 16:00-17:30, Room 309, Convention Center	
Moderator	Donghoon Shin National Korea Maritime & Ocean University, Republic of Korea
PT01_1494 <i>(Technical)</i>	Impact of Takeover Training on Driver Performance in Level 3 Automated Driving Environments Taegeun Kim , Korea Road Traffic Authority, Republic of Korea

Scientific and Technical Paper Sessions (STP)

PT01_1849 <i>(Technical)</i>	Development of a Takeover Control Prediction Framework Using Real-World Autonomous Bus Operational Data Hyewon Bang , Gachon University, Republic of Korea
PT01_1926 <i>(Technical)</i>	A LiDAR-Guided Active Zooming Perception Infrastructure for Reliable Road Debris Detection Minglei Huang , DENSO China Investment Co Ltd, China
PT01_1862 <i>(Technical)</i>	Design and Development of a Center-Edge-Based Platform for Autonomous Patrol Service Using Use Case Modeling Jong-Tae Choi , ITS Korea, Republic of Korea
PT01_1754 <i>(Scientific)</i>	Naturalistic Takeover Analysis: An Exposure-Adjusted Approach to Environmental Risk Clustering in Urban Autonomous Vehicle Eunho Lee , Ajou University, Republic of Korea
PT04_1728 <i>(Technical)</i>	AI-Assisted Network Redesign for Equity-Focused Transport Planning: A UK-Korea Digital Twin Approach Devon Barrett , Podaris, United Kingdom (Great Britain and Northern Ireland)
STP009 ITS for Road Maintenance	
Oct 21 (Wed) 16:00-17:30, Room 308, Convention Center	
Moderator	Shuk Ching Lilian Pun Cheng ITS Hong Kong, Hong Kong, China
PT01_1402 <i>(Technical)</i>	Recognition of White-Line Stripping Ratio Using In-Vehicle Camera Images Kenichi Kurata , Aisin Corporation, Japan
PT01_1577 <i>(Technical)</i>	A Study on Improving Road Management Efficiency Using Data Collected from Existing Sensors Takaaki Nasu , OMRON SOCIAL SOLUTIONS CO LTD, Japan
PT01_1445 <i>(Technical)</i>	Development of Asphalt Pavement Pot Hole Prediction Method by Means of Thermal Sensing Technology Ki Hoon Moon , Korea Expressway Corporation, Republic of Korea
PT04_1663 <i>(Technical)</i>	Automated Pavement Condition Assessment Using UAV Imagery and Deep Learning-Based Crack Segmentation Yongryeong Lee , University of Seoul, Republic of Korea
PT01_1516 <i>(Scientific)</i>	Toward Crowdsourced Road Slope Mapping: Leveraging Connected Electric Vehicles as Mobile Sensors Fabien Rogister , AISIN, Belgium

Scientific and Technical Paper Sessions (STP)

STP010	Traffic Signal Control Enhancement
Oct 22(Thu) 11:00-12:30, Room 308, Convention Center	
Moderator	Jau-Ming Su Feng Chia University, Chinese-Taipei
PT04_1485 (Technical)	Evaluation of Travel Time on Coordinated Signal Control Routes in Urban Areas Nanako Yasuda, Sumitomo Electric System Soutions Co Ltd, Japan
PT04_1454 (Technical)	TrafficSdsAgent: A Signal Decision-Support Framework for Real-Time Traffic Analysis and Signal Recommendations Yan-Ru Jhuo, Chunghwa Telecom Co., Ltd., Chinese-Taipei
PT04_1470 (Technical)	Adapting the SCATS System for Local Traffic Conditions: A Performance Evaluation in Kaohsiung Yi-Lan Chiang, HwaCom Systems Inc, Chinese-Taipei
PT04_1465 (Technical)	Waiting Time Reduction on Semi-Actuated Signal Control Misato Kanbe, Sumitomo Electric System Solutions Co Ltd, Japan
PT03_1583 (Technical)	BIOSAN: A Novel Bidirectional Interactive Optimization Framework for Integrated Adaptive Signal Control and Vehicle Navigation Leveraging Road-Users' Real-Time Trip Data (RRTD) Chi-Hong Ho, National Cheng Kung University, Chinese-Taipei
PT03_1844 (Scientific)	Longitudinal Field Evaluation of Smart Traffic Light Performance at Coordinated Signalised Corridors in Malaysia Ir. Mohd Fairuz MuhamadMamat, Government of Malaysia, Malaysia
STP011	Standards and Regulation for Automated Vehicles
Oct 22(Thu) 14:00-15:30, Room 309, Convention Center	
Moderator	Djemre Ozmendji IDIADA AUTOMOTIVE TECHNOLOGY, S.A., Spain
PT01_1457 (Technical)	Mileage Requirements and Validation Targets for Automated Driving Systems: A Case Study of Taipei City Chih-Han Chang, Metal Industries Research Development Centre, Chinese-Taipei

Scientific and Technical Paper Sessions (STP)

PT01_1598 (Scientific)	Cybersecurity Assessment of NFC Pairing in Automotive Digital Keys Sergi Arjona, IDIADA AUTOMOTIVE TECHNOLOGY, S.A., Spain
PT01_1710 (Scientific)	Supplemental Taxonomy for SAE L3-L4: A Tri-Layer Environmental Grading Framework Chengxi Hu, Korea Advanced Institute of Science and Technology, China
PT01_1597 (Scientific)	Fail It until You Break It: A Failure-Mode-Driven Approach to Automotive FOTA Validation Sergi Arjona, IDIADA AUTOMOTIVE TECHNOLOGY, S.A., Spain
PT01_1503 (Scientific)	An Approach to Use Safety Assessment Results at Vehicle Level to Determine the Safety Impact at Traffic Leve Olaf Op Den Camp, TNO, Netherlands
PT01_1873 (Scientific)	Meta-Analysis-Driven LLM Framework for Generation Operation Context of AVs Under Flood Conditions Geunhwi Park, Republic of Korea, Republic of Korea
STP012	Advanced Urban Traffic Control
Oct 22(Thu) 14:00-15:30, Room 308, Convention Center	
Moderator	Mario Toscano VHB, United States of America
PT04_1488 (Technical)	Diagnosis of Traffic Signal Control and Improvement Using Probe Data Nobutaka Suzuki, Sumitomo Electric System Solutions Co Ltd, Japan
PT01_1863 (Technical)	AI for Traffic Signal Optimisation: Practical Opportunities, Boundaries and Risks Andrew Mehaffey, JYW Consulting, Australia
PT01_1426 (Technical)	Multi-Intersection ETA Prediction and Adaptive Signal Priority in Urban Traffic Yan-Ru Jhuo, Telecommunication Laboratories Chunghwa Telecom Co Ltd Taiwan, Chinese-Taipei
PT01_1463 (Technical)	Digitalization of Communication Lines for Traffic Signal Controllers Hitomi Onoki, Tokyo Metropolitan Police Department, Japan
PT01_1605 (Technical)	Cooperative Multi-Agent Speed Harmonization in Urban Networks with Varying Coordination and Data Access Seung-Hyeon Lee, Seoul National University, Republic of Korea
PT01_1502 (Scientific)	STformer: A Signal-Timing Aware Transformer for Intersection Traffic Volume Forecasting Gwang-Hun Lee, Pusan National University, Republic of Korea

Scientific and Technical Paper Sessions (STP)

STP013 C-V2X Interactions for Cooperative Safety	
Oct 22(Thu) 16:00-17:30, Room 309, Convention Center	
Moderator	Tim Leinmueller DENSO, Germany
PT01_1544 <i>(Technical)</i>	Research, Implementation and Practice on C-V2X Empowering Digitalized Traffic Signal Interaction System Tian Yang , CICT Connected and Intelligent Technologies Co Ltd, China
PT01_1514 <i>(Technical)</i>	Learning Provoking Driving Patterns to Prevent Unsafe Behavior with Connected Vehicles Seyhan Ucar , Toyota Motor North America Research and Development, United States of America
PT01_1438 <i>(Technical)</i>	Always-On V2V Safety Without Infrastructure (Vehicle-Ready, Validated) Hyungu Hwang , ToBScommunication Inc, Republic of Korea
PT01_1491 <i>(Technical)</i>	Verification of Accuracy of Information Provision by the Merging-Support System (DAY2 System) Daiki Yamamoto , National Institute for Land and Infrastructure Management, Japan
PT01_1473 <i>(Technical)</i>	Verification of Effectiveness of Merging Support Information Provision to Automated Driving Trucks Toshimasa Nakagawa , National Institute for Land and Infrastructure Management, Japan
PT01_1549 <i>(Scientific)</i>	Beyond Line of Sight: A Hybrid Validation Framework for V2X Collective Perception Evangelia Portouli , ICCS, Greece
STP014 Integration of Smart Infrastructure	
Oct 23(Fri) 09:00-10:30, Room 308, Convention Center	
Moderator	Antony Dixon Intelligent Transportation Systems New Zealand Inc, New Zealand
PT01_1405 <i>(Technical)</i>	International Standardization Activity for Electric Junichi Hirose , Highway Industry Development Organization, Japan
PT01_1839 <i>(Technical)</i>	Demonstration Experiments on Japanese Expressways Utilizing Smart Poles ~Initiatives of the MOVISON Project~ Itakura Yoshinao , East Nippon Expressway Company Limited, Japan

Scientific and Technical Paper Sessions (STP)

PT01_1707 <i>(Technical)</i>	Road-Vehicle Cooperation System For Autonomous Driving Takuji Nishimoto , Mitsubishi Heavy Industries Machinery Systems LTD, Japan
PT01_1747 <i>(Technical)</i>	Quantifying Whole-of-Life Cost and Carbon Benefits of Circular Economy Interventions in ITS Assets Mark Henaway , Aurecon, Australia
PT03_1434 <i>(Scientific)</i>	Hydrogen as Fuel in Heavy-Duty Road and Rail Transportation: Multi-Scale Optimization and ITS-Enabled Planning-Operation Integration Matheus Jacon Pereira , Institute for Technological Research (IPT), Brazil
PT02_1920 <i>(Scientific)</i>	Explainable Scenario-Adaptive Mobility Simulation in Aging Societies: A Generative Macro-Micro Framework Chaewon Yoon , Konkuk University, Republic of Korea
STP015 Traffic Management & Disruptions	
Oct 23(Fri) 09:00-10:30, Room 307, Convention Center	
Moderator	James Kwok Land Transport Authority (LTA), Singapore
PT03_1579 <i>(Technical)</i>	AI-Augmented Service Control in Public Transport - Predictive Operations, Human-Centred Decision Support, and Network Resilience Suvi Schwab , INIT, Singapore
PT04_1480 <i>(Technical)</i>	AI-Based Estimation of New Year's Eve Human Mobility and Traffic Flow Chee Yung Lo , THI Consultants Inc, Malaysia
PT01_1424 <i>(Technical)</i>	Research Into Using AI to Predict Failures in Toll Collection Systems Keita Takeda , NIPPON EXPRESSWAY TOLL TECHNOLOGY CO LTD, Japan
PT01_1692 <i>(Technical)</i>	Predictive Safety: A Proactive Framework for Near-Miss-Based Traffic Risk Assessment Shu Hui Lim , TTS Group Pte Ltd, Singapore
PT03_1841 <i>(Technical)</i>	Digital Management of Bus Network Disruptions: An Integrated Service Change Notification System with Automated GTFS-Based Customer Alerts Reghu Anguswamy , Roads and Transport Authority, United Arab Emirates
PT03_1830 <i>(Scientific)</i>	GO-TRANSIT as Mobility as a Service: Do People Used It? Research Based on Theory of Planned Behavior Widyarini Weningtyas , Institut Teknologi Bandung, Indonesia

Scientific and Technical Paper Sessions (STP)

STP016	ITS Data, Network & Forecasting
Oct 23(Fri) 09:00-10:30, Room 306, Convention Center	
Moderator	Peter Schmitting ERTICO ITS Europe, Belgium
PT01_1552 (Technical)	User Demand and Operational Feasibility of Automated Bus Services Yuhei Goto , Graduate school of Environmental Studies Nagoya university, Japan
PT02_1654 (Technical)	Evaluating the Efficiency of Metropolitan Bus Supply Using Data Envelopment Analysis and an Examination of Influencing Factors Ki Hyun Kim , Korea University, Republic of Korea
PT04_1433 (Technical)	Efficient Route Planning for EVs Jean-Sebastien Gonsette , AISIN Europe, Belgium
PT04_1673 (Technical)	From Field Tests to Standards : Performance Evaluation of Vehicular Radio Positioning Infrastructure in Highway Tunnels Kyoungsoo Choi , Korea Automotive Technology Institute, Republic of Korea
PT03_1903 (Scientific)	Charging-Constrained Ride-Pooling with BEV Fleets under Public Charging Competition Hao Yang , McMaster University, Canada
STP017	Advanced Method for Routines, Congestion and Traffic Insight
Oct 23(Fri) 11:00-12:30, Room 307, Convention Center	
Moderator	Mike Rudge Rudge Consulting, New Zealand
PT04_1814 (Technical)	Can Image Generation Enable Scene-Level 3D Reconstruction in Traffic Monitoring? Shun Fukuda , TOYOTA MOTOR CORPORATION, Japan
PT01_1723 (Technical)	Adaptive Incentive Allocation for Congestion Mitigation under Dynamic Traffic Conditions Eui-Jin Lee , Seoul National University, Republic of Korea

Scientific and Technical Paper Sessions (STP)

PT04_1452 (Technical)	GPT-Powered AI Assistant for Personalized Electric Vehicle Route Planning Noemie Meunier , AISIN Europe, Belgium
PT02_1401 (Technical)	Optimal Route Search Based on Deep Neural Networks Supported by External Memory Kenichi Kurata , Aisin Corporation, Japan
PT01_1686 (Technical)	Reframing Dynamic Origin-Destination Matrix Estimation as a Sequential Decision-Making Problem for Microscopic Traffic Simulation Donggyu Min , Seoul National University, Republic of Korea
PT04_1413 (Scientific)	MVP: A Data-Driven Multi-View Clustering Method for Dynamic Traffic Network Subarea Partitioning Jie Hui Ng , Tsinghua University, Malaysia
STP018	Demand Responsive Transport User Needs, Optimisation & Planning
Oct 20(Tue) 16:00-17:30, Room 307, Convention Center	
Moderator	Daejin Kim Inha University, Republic of Korea
PT03_1758 (Scientific)	Impact of Segment-Level Reservation Time Window Difference in Flexible-Stop Transit Yuna Lee , Seoul National University, Republic of Korea
PT03_1836 (Scientific)	Optimizing DRT Scheduling with DDQN: Q-Value-Based Iterative Assignment Kim Chanjin , KwangWoon University, Republic of Korea
PT03_1815 (Scientific)	Time-Varying Modal Interactions in Rural Transit: Evidence of Asymmetric Complementarity between DRT and Fixed-Route Transit Services Dain Oh , Ajou University, Republic of Korea
PT03_1804 (Scientific)	A Proposal for Dual-Mode Demand Responsive Transit Integrating Passenger and Parcel Services Minsung Kim , University of Seoul, Republic of Korea
PT03_1812 (Scientific)	Comparing Willingness to Pay for Micro-Electric Vehicle Sharing Services by Usage Intention Gagyeong Kim , Hannam University, Republic of Korea
PT02_1649 (Technical)	Survey-Based Estimation of Consumer and Rider Delivery Fees and Comparison with Actual Fees Hyunsoo Park , Kyonggi University, Republic of Korea

Scientific and Technical Paper Sessions (STP)

STP019	Crowd Dynamics
Oct 19(Mon), 11:30-12:30, Room 308, Convention Center	
Moderator	Reuben Tamakloe Kookmin University, Republic of Korea
PT01_1867 <i>(Scientific)</i>	The Development of a Multi-Directional Crowd Flow Simulation Model for Real-Time Crowd Monitoring System Jaeyeong Lee , Korea Transport Institute, Republic of Korea
PT01_1403 <i>(Scientific)</i>	Flow Design Based on Binary Shuffling Kenichi Kurata , Aisin Corporation, Japan
PT04_1493 <i>(Technical)</i>	Generation, Validation, and Future Challenges of MAP Data for Vehicle-to-Everything (V2X) Communication Carlos Perez Soriano , Bamboos, Spain

Interactive Poster Sessions (IS)

IS001	Automated Vehicle Technologies
Oct 20(Tue) 10:00-12:00, 3F Lobby, Convention Center	
PT01_1735 <i>(Technical)</i>	A Real-Road Testbed for Field Operational Test of Autonomous Driving Systems: The D-Live Platform Dongwhan Lee , KATECH Korea Automotive Technology Institute, Republic of Korea
PT02_1427 <i>(Technical)</i>	Potential Adoption Groups of an Underground Shared Autonomous Vehicle Service Sehyun Park , Korea Institute of Civil Engineering and Building Technology, Republic of Korea
PT01_1786 <i>(Technical)</i>	Behavioral Heterogeneity of Autonomous Vehicles - A Latent Class Analysis of Merging Responses Hyeonjeong Sim , KOREA TRANSPORT INSTITUTE, Republic of Korea
PT01_1628 <i>(Scientific)</i>	Exploring Autonomous Vehicle Driving Parameter Spaces for Sagety-Efficiency Trade-offs in Urban Traffic Gyungtaek Oh , Ajou University, Republic of Korea
PT01_1772 <i>(Scientific)</i>	HUD Warnings: A Visual Intervention for Mitigating Aggressive Driving Behavior Jaehyuck Lim , Korea Advanced Institute of Science and Technology, Republic of Korea
PT01_1638 <i>(Scientific)</i>	Reliable Generation of Autonomous Driving Scenarios Using a Hybrid LLM Framework with Rule-Based Consistency Checking Gyungtaek Oh , Ajou University, Republic of Korea
PT01_1462 <i>(Technical)</i>	Development of Test Tracks and Infrastructure for Automated Driving Capability Assessment: Focusing on Urban Local Roads and High-Difficulty Driving Scenarios Jaehong Lee , Korea Road Traffic Authority (KoROAD), Republic of Korea

Interactive Poster Sessions (IS)

IS002	Smart Infrastructure & Traffic Management
Oct 20(Tue) 13:30-15:30, 3F Lobby, Convention Center	
PT01_1573 (Scientific)	Unveiling Heterogeneity in Electric Vehicle Mode Choice for Highway Trips: Evidence from Random Effects and Latent Class Analyses Sungmin Kim, Inha University, Republic of Korea
PT04_1822 (Scientific)	Comparative Analysis of Multi-Regime Traffic Models On Highways for ITS Applications Junhyeong Moon, Kyonggi University, Republic of Korea
PT01_1919 (Scientific)	Long-Distance Route Choice Behavior of Electric Vehicle Drivers: Capturing Heterogeneity Through Market Segmentation Minji Kang, University of seoul, Republic of Korea
PT04_1508 (Scientific)	An Integrated MCP-Enabled LLM Agent Framework for Connected-Car Parking Entry-Time and Highway Service-Area Congestion Estimation Jung Min Park, Hyundai Autoever, Republic of Korea
PT01_1808 (Technical)	Estimating Pedestrians’ Psychological States Based on Crossing Behaviors at Unsignalized Crosswalks Toward Human-Centered ITS Kunihiro Adachi, Nagoya Institute of Technology, Japan
PT01_1775 (Technical)	An Interactive Visualization System for Microscopic Simulation-Based Safety Analysis at Urban Intersections Lee Jeho, Kwangwoon University, Republic of Korea
PT01_1625 (Technical)	Causal Impacts of Senior Safety Zones on Traffic Crashes Kim Jin Hyeok, Kyungil University, Republic of Korea
PT04_1590 (Scientific)	The Light of Wisdom Illuminates the City: Tainan City Utilizes AI Technology to Alleviate Traffic Congestion Hsiao Chun Lin, International Integrated Systems Inc, Chinese-Taipei
PT04_1589 (Scientific)	The Development of a Unified Signal Control Architecture for Metropolitan Areas Using Meta-Learning and Multi-Task Reinforcement Learning Models Hsiao Chun Lin, International Integrated Systems Inc, Chinese-Taipei
PT01_1809 (Technical)	A Hierarchical Database for Dynamic Offload Scheduling toward Transport Edge AI Teruo Koyanagi, TOYOTA MOTOR CORPORATION, Japan
PT03_1532 (Technical)	Development of BLE/UWB navigation system for driver mobility & Autonomous driving in GNSS shadow roads Tae Kyung Sung, WiFive, Republic of Korea
PT03_1850 (Scientific)	A Spatial Analysis Framework for Characterizing Imbalanced Areas in Public Bike Sharing Ji Hye You, Ajou University, Republic of Korea
PT04_1779 (Technical)	Hybrid System for ALPR Failure Recovery Taeyoun Kim, Bamboos, Republic of Korea

Interactive Poster Sessions (IS)

IS003	Safe, Sustainable & Inclusive Transport
Oct 20(Tue) 15:30-17:30, 3F Lobby, Convention Center	
PT01_1650 (Scientific)	Traffic Flow Impacts of Autonomous Utility Service Vehicles Representing Low-Speed Operation in Urban Networks Juyeong Kim, Ajou University, Republic of Korea
PT01_1789 (Scientific)	Effects of Red Signal Remaining Time Information on Driver Reaction and Start-Up Behavior at Signalized Intersections Eunjin Choi, Korea Road Traffic Authority, Republic of Korea
PT01_1695 (Scientific)	EEG-Based Drowsiness Detection in Driving Using Random Forest Model Byeongjoon Noh, Hanyang University, Republic of Korea
PT01_1837 (Scientific)	From Passive Visibility to Active Permissibility: A Virtual Reality Study on Overcoming Track Avoidance Bias in Subway Station Fires Hunchul Park, Korea Advanced Institute of Science and Technology, Republic of Korea
PT02_1834 (Technical)	Changes in Utility and Mode Choice Behavior of Metro Passengers by Prior Crowding Experience Seoyoung Hong, Myongji university, Republic of Korea
PT02_1437 (Technical)	Mode Choice Modeling for Urban Air Mobility with Access Mode Considerations Sehyun Park, Korea Institute of Civil Engineering and Building Technology, Republic of Korea
PT02_1777 (Scientific)	Assessing In-Vehicle Congestion of Bus Users - Based on the Revealed Preference of the Seoul Metropolitan Area - Donghyung Yook, Kangwon national university, Republic of Korea
PT01_1678 (Technical)	Behavioral Determinants of Transfer Choice in Multimodal Transportation: The Role of Latent Attitudes Junhyoung Yeon, The Seoul Institute, Republic of Korea
PT03_1595 (Scientific)	Uncovering Driver Heterogeneity in Park-and-Ride Adoption: A Mixed Logit Analysis of Pay-per-use and Subscription Pricing Schemes Gwanyong Oh, Inha University, Republic of Korea
PT01_1665 (Scientific)	Assessing Spatial Inequality in Accessibility for Wheelchair Users of Paratransit Services Juyoung Kim, Pusan National University, Republic of Korea
PT02_1878 (Scientific)	Spatial Spillover Effects in Paratransit Waiting Times: Evidence From Seoul's Disability Call Taxi System Solbee Kim, Seoul National University, Republic of Korea
PT03_1591 (Scientific)	Real-Time Demand Responsive Transit Dispatch Incorporating User Utility Juhyoun Youm, Yonsei University, Republic of Korea

Interactive Poster Sessions (IS)

IS004	Mobility Services: Demand-response, Parking, Ridesharing and Other Sharing Services Oct 21 (Wed) 10:00-12:00, 3F Lobby, Convention Center
PT03_1843 (Technical)	Dataspaces for Sovereign Mobility Data Exchange: Architecture, Usage Policies, and Service Chain Composition Moritz Eckert, German Aerospace Center Institute for AI safety & security, Germany
PT03_1847 (Scientific)	Pay-per-Use or Subscription? A Comparative Analysis of Car-Sharing Pricing Schemes on Usage and Private Vehicle Disposal Sungmin Kim, Inha University, Republic of Korea
PT03_1774 (Scientific)	Centralized Reinforcement Learning for Sequential Ride-Matching in Ride-Sharing Systems Shin Hyoung Park, University of Seoul, Republic of Korea
PT03_1702 (Scientific)	Modeling Parking Demand for Shared Personal Mobility: A Case Study of Hwaseong, Korea Sung Won Kim, The Hwaseong Institute, Republic of Korea
PT03_1604 (Scientific)	Recovering Latent Demand Under Inventory Constraints in Shared Mobility: Survival Likelihood and Low-Rank Imputation Hideki Hayashi, NARA Institute of Science and Technology, Japan
PT03_1921 (Scientific)	Cargo-Bike Delivery in Urban Last-Mile Logistics: Operational Efficiency and Cost Analysis from a Field Pilot in Gimcheon, Korea Sungmin Kim, Inha University, Republic of Korea
PT04_1616 (Scientific)	Uncovering Gender Disparities In Bike-Sharing Usage Using Explainable Machine Learning Moon Sung Jo, KYUNGIL UNIVERSITY, Republic of Korea
PT04_1617 (Technical)	Urban Night-Time Attractiveness in Seoul: A Gen MZ Perspective Yun Hyun Lee, KYUNGIL UNIVERSITY, Republic of Korea
PT04_1838 (Technical)	Changes in Intersection Approach Speed under Real-Time Signal Information Provision Minsu Kwon, KOROAD, Republic of Korea
PT04_1741 (Scientific)	An LLM-RAG Method for DRT Operational Diagnosis and Policy Drafting Byeongjoon Noh, Hanyang University, Republic of Korea
PT04_1615 (Technical)	Optimizing Paratransit Taxi Routing under Heterogeneous Travel Behaviors Daehyun Kim, KYUNGIL UNIVERSITY, Republic of Korea
PT02_1759 (Scientific)	Analyzing User Needs Assessment for Demand Responsive Transport (DRT): The Case of Suwon City Sukhee Kim, Suwon Research Institute, Republic of Korea
PT03_1550 (Scientific)	Spatiotemporal Dynamics and User Behavior of Shared E-Scooters in a Mixed-Use Tourist City: Evidence from Gangneung, South Korea Gwanyong Oh, Inha University, Republic of Korea

Interactive Poster Sessions (IS)

IS005	Social & Safety Aspects of ITS Oct 21 (Wed) 13:30-15:30, 3F Lobby, Convention Center
PT03_1730 (Technical)	Traffic and Road Safety Analytics for Traffic Management using agentic AI Ralf-Peter Schaefer, TomTom Gmbh, Germany
PT04_1727 (Technical)	Leveraging AI Video Analytics to Improve Toll Collection Operations on Malaysian Expressways Saiful Idzzuan Mat Said, Projek Lebuhraya Usahasama Berhad, Malaysia
PT03_1466 (Scientific)	TrafficSeqNet : A Macro-to-Micro Hierarchical Framework for Highway Traffic Flow Prediction Ahyoung Kang, Hyundai Autoever, Republic of Korea
PT03_1739 (Technical)	Analysis of the Impact of Parking Management Policies on the Characteristics of Parking Space Utilization in Taichung City Yi Chih Cho, Feng Chia University, Chinese-Taipei
PT01_1423 (Technical)	Traffic and Road Safety Analytics for Traffic Management Using Agentic AI Jun-De Chen, C Link Technology Inc, Chinese-Taipei
PT04_1682 (Scientific)	Hybrid Framework for Traffic Crash Risk Analysis Integrating Data-Driven Models and Microscopic Sungeun Cho, Ajou University, Republic of Korea
PT01_1744 (Scientific)	Identifying Risky Driving Behavior Patterns of Commercial Vehicles Using Multidimensional Analysis and Spatiotemporal Clustering: A Case of Daejeon, South Korea Byeongjoon Noh, Hanyang University, Republic of Korea
PT01_1745 (Scientific)	Multidimensional Risk Profiling for Commercial Vehicle Safety Operations and Policy Using Driving Records and Company-Driver Attributes Byeongjoon Noh, Hanyang University, Republic of Korea
PT01_1666 (Scientific)	Development of a Random Forest-Based Spatial Estimation Model for Elderly Pedestrian Volumes Seung Yeon Jang, Yonsei University, Republic of Korea
PT04_1670 (Technical)	Equity Analysis of Vertical Transport System Installation for the Mobility Handicapped Using Data Envelopment Analysis Lee Jeong Hyeok, KyungIl University, Republic of Korea

Interactive Poster Sessions (IS)

IS006 ITS Data Models & Simulation	
Oct 21(Wed) 15:30-17:30, 3F Lobby, Convention Center	
PT01_1435 (Scientific)	Auditable Traffic Analysis with a VLM-Assisted Evidence-Grounded Scene Graph Fuku Himuro, Shimizu Corporation, Japan
PT01_1668 (Scientific)	From Prompts to Executable Traffic Simulation Networks: Generating SUMO Networks from Natural Language Gyeongseon Baek, Hanyang University, Republic of Korea
PT01_1622 (Technical)	Hybrid Autonomous Driving Architecture Integrating Rule-Based Planning and End-to-End Models in CARLA Simulation Soohan Yoon, Chungbuk National University, Republic of Korea
PT01_1691 (Scientific)	AN LLM Based Decision Support System : From Crash Data Analysis to Policy Implementation Haneul Park, Ajou University, Republic of Korea
PT01_1671 (Scientific)	Traffic Context-Aware Microscale Vehicle Trajectory Generation Using Generative Adversarial Imitation Learning Joobin Jin, Hanyang University, Republic of Korea
PT01_1833 (Scientific)	Data-Efficient Identification of Vehicle Lateral Dynamics via Information Theoretic Selection Minchang Kim, Hanyang University, Republic of Korea
PT01_1664 (Scientific)	A Graph-Based VAE Framework for Capturing Complex Inter-Vehicle Dynamics in Trajectory Generation Byeongjoon Noh, Hanyang University, Republic of Korea
[Special] 2025 Suwon ITS AP Forum Best Paper Award Winners	
PT01_1927	Xai-Informed Comparative Safety Performance Assessment of Human Driver Crashes and Automated Vehicle Failures Hyeonsoo Kim, Korea Transport Institute, Republic of Korea
PT04_1928	Beyond the Red and Green: Exploring the Capabilities of Smart Traffic Lights in Malaysia Mohd Fairuz Bin Mamat, Ministry of Works Malaysia, Malaysia
PT01_1929	Clustering-Based Aggressive Driving Analysis and LLM-Driven Trajectory Generation Chiwoo Roh, Korea Transport Institute, Republic of Korea
PT01_1930	Comparing Dynamic Traffic Flow to Human-Driven Vehicles with Cautious and Aggressive Autonomous Vehicles Behaviour Maftuh Ahnan, University of Science and Technology, Indonesia

Interactive Poster Sessions (IS)

IS007 Applying Advanced Transport Models	
Oct 22(Thu) 10:00-12:00, 3F Lobby, Convention Center	
PT04_1543 (Technical)	Construction of an AI Training Dataset for Encrypted Road-Traffic Security Jungmin Lee, Bamboos, Republic of Korea
PT01_1619 (Scientific)	Vision-Language Models for Detection and Response to Onboard Railway Safety Incidents Kim Jin Hyeok, Kyungil University, Republic of Korea
PT04_1672 (Scientific)	Understanding Express Train Choice Behavior Through Interpretable Machine Learning Lee Jeong Hyeok, Kyungll University, Republic of Korea
PT01_1715 (Scientific)	An AI-Driven Network-Wide Framework for Arterial Traffic Volume and Speed Estimation under Sparse Sensing Samgyu Yang, University of Central Florida, Republic of Korea
PT02_1614 (Scientific)	Development and Application of LLM-Based On-Demand Mobility Service Analysis Framework Hyuncheol Park, Korea University, Republic of Korea
PT01_1630 (Scientific)	Investigating Factors Affecting In-Vehicle Activities and Activity Duration of Railway Passengers Yongjin Chung, Yonsei University, Republic of Korea
PT01_1640 (Scientific)	Enhancing Crash Severity Prediction: Integrating Sturctured and Unstructured Data with BERT Haneul Park, Ajou University, Republic of Korea
PT01_1662 (Scientific)	Visual Attention Allocation across Streets with Distinct Built Environment Characteristics Daon Kim, pusan national university, Republic of Korea
PT04_1482 (Technical)	Evaluation of Commercial Vision-Language Models for Autonomous Driving in Unstructured Urban Environments: A Case Study of Korean Alleyways Yujin Lee, Lotte Innovate, Republic of Korea
[Special] Youth Program	
PT01_1933	Proactive Decision Support through Multimodal Traffic Analysis and Physical AI Simulation Woojin Choi, Myongji University, Republic of Korea

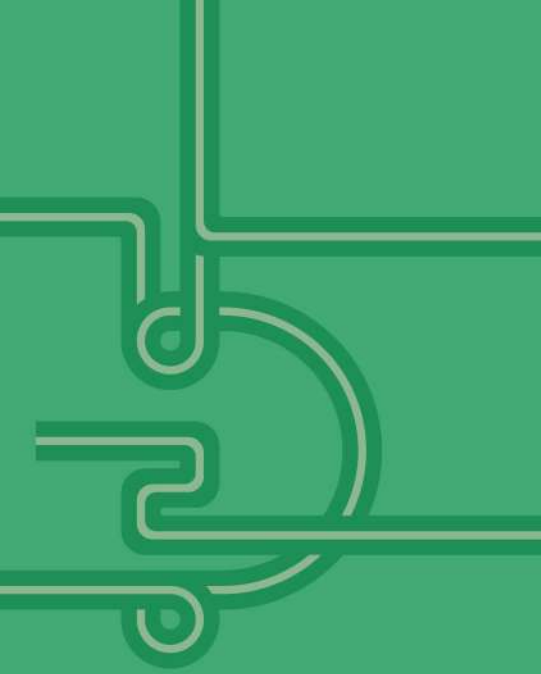
Interactive Poster Sessions (IS)

IS008	Case studies to advance policy governance and standards
Oct 22(Thu) 13:30-15:30, 3F Lobby, Convention Center	
PT04_1794 (Technical)	A Policy Mechanism for Embedding Demand Responsive Transport: A Comparative Study of Urban and Peri-Urban Cases Based on the C-M-O Framework Seong-A Seren Kim, Hanyang University, Republic of Korea
PT04_1419 (Technical)	Research on the Path of Improving the Conversion Rate of Air-Rail Intermodal Passenger Flow: A Case Study of Wuxu Airport in Nanning City Chen Yuling, Southwest Jiaotong University, China
PT02_1792 (Technical)	A Study on the Direction of Performance Management Advancement in Expressway Operations: Focusing on Digital Transformation Hyeon-Joung Kim, Korea Expressway Corporation, Republic of Korea
PT01_1563 (Technical)	AI Traffic Commissioner: Reshaping Governance Resilience via Digital Transformation Shiangjeng Wang, International Integrated Systems Inc, Chinese-Taipei
PT01_1522 (Technical)	Implementation of an Intelligent Intersection Safety System: A Pilot Study at Non-Signalized Intersections in Yilan, Taiwan Cheng-Hao Cheng, CECI Engineering Consultants, Chinese-Taipei
PT01_1737 (Technical)	A Study on the Legislative Directions for Establishing an Integrated Legal Framework for the Efficient Operation of C-ITS in Korea Cho Jinwoo, Korea expressway corp, Republic of Korea
PT01_1510 (Technical)	A Risk-First TRIZ Framework for UAV Medical Logistics in Taiwan's Unmanned Vehicle Regulatory Sandbox Hao-Chu Lin, Overseas Chinese University, Chinese-Taipei
PT01_1570 (Technical)	A Study on Countermeasures for the Korean Green Classification System Jiho Park, Korea Expressway Corporation Research Institute, Republic of Korea
PT02_1519 (Technical)	Trends and Outlook of Toll Collection Systems Driven by Technological Innovation Minwoo Lee, Korea Expressway Corporation, Republic of Korea

Interactive Poster Sessions (IS)

IS009	General ITS Application & Tools to Improve Automated Vehicles
Oct 22(Thu) 15:30-17:30, 3F Lobby, Convention Center	
PT01_1472 (Technical)	Detection Capability Evaluation of a FET-Based Sensor for Child Presence Detection Using a New-born Infant Surrogate Kenji Kouno, The University of Tokyo, Japan
PT01_1675 (Scientific)	Recognizing Unknown Road Hazards: Out-of-Distribution Segmentation For Autonomous Driving Safety Jeonghoon Song, Hanyang University, Republic of Korea
PT01_1657 (Technical)	Development of Road Icing Risk Detection System Based on Highway CCTV Infrastructure Hyung Bae Kim, Korea Expressway corporation, Republic of Korea
PT01_1746 (Scientific)	Comfort-Centric Trajectory Prediction for Autonomous Driving via Temporal Graph Cross Attention Hyunsik Min, Hanyang University, Republic of Korea
PT04_1417 (Technical)	A Study on the Digital Transformation of Expressways in the Context of Future Industrial Change Jiho Park, Korea Expressway Corporation Research Institute, Republic of Korea
PT04_1557 (Technical)	LiDAR Sensing Technology for Driving Safety Support on Expressways Masatake Takahashi, NEC Corporation, Japan
PT04_1679 (Scientific)	Traffic State Monitoring and Estimation Using LiDAR Sensors on Autonomous Vehicles Sungeun Cho, Ajou University, Republic of Korea
PT04_1913 (Technical)	Spatial Mismatch Between Stay-Based Activity Intensity and Movement Transition Network Connectivity: Evidence from GPS Trajectories in Kanagawa, Japan Hanghun Jo, Hanyang University, Republic of Korea
PT04_1856 (Scientific)	Development of an Integrated FF-PID Control System with Proactive Deceleration for Stable Autonomous Racing Hoyoung Song, Hanyang University, Republic of Korea
PT01_1569 (Technical)	Evolution Direction of Connected Car Systems for ITS Hyung Chul Bae, MOBIS, Republic of Korea

Exhibition



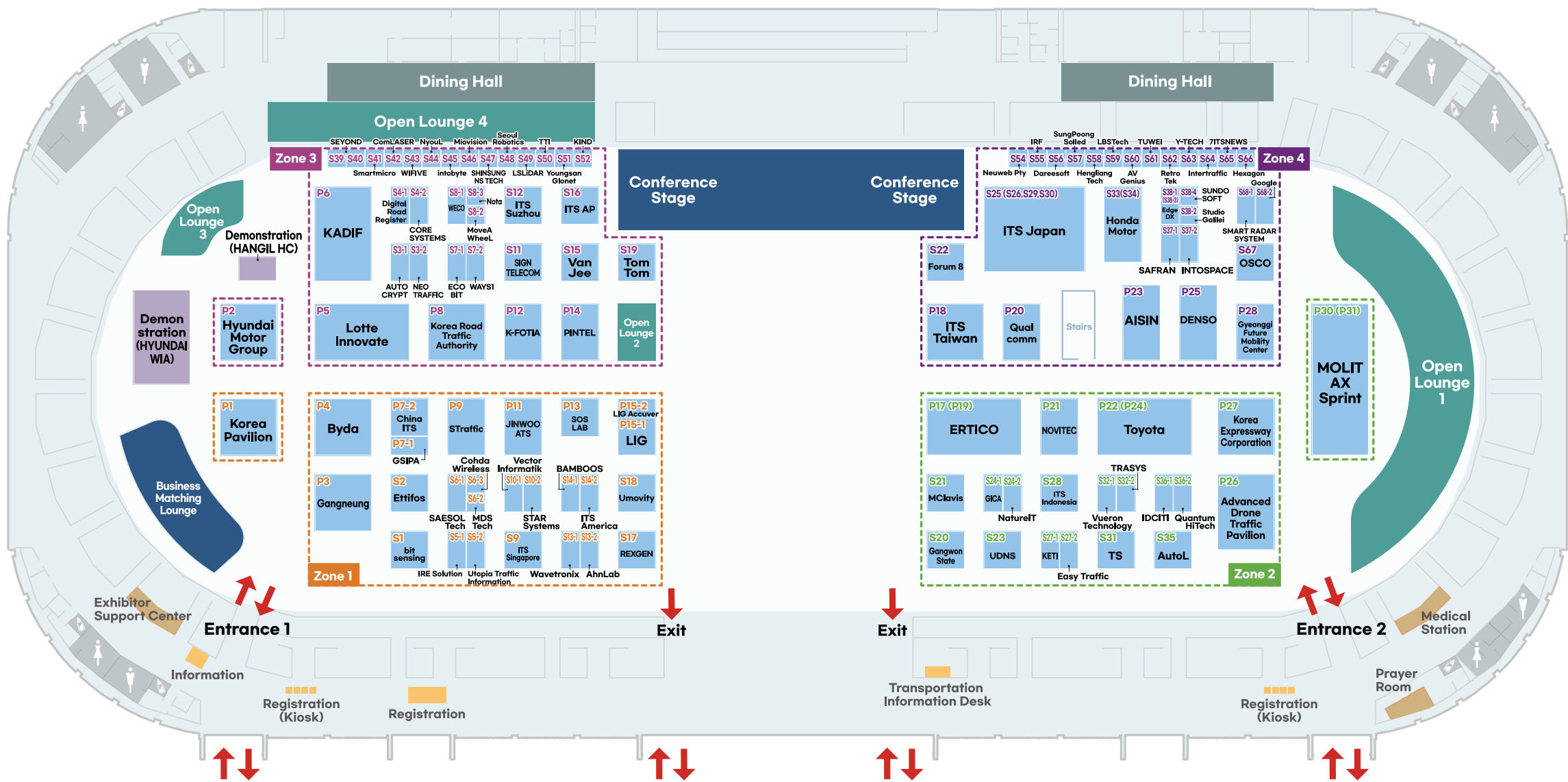
2026 GANGNEUNG
ITS WORLD CONGRESS

Exhibition Overview

The exhibition at the 2026 Gangneung ITS World Congress brings together companies and organizations from around the world to showcase technologies, products, and solutions for safer and smarter mobility. Visitors can explore autonomous driving, V2X communications, AI-based traffic management, and smart intersections, with a focus on their practical applications. The exhibition and its related programs offer opportunities to connect with industry professionals, exchange ideas, and build new partnerships.



Dates	October 19–23, 2026
Venue	Gangneung Oval
Exhibition Categories	Autonomous driving, C-ITS/V2X, AI-based traffic management, smart intersections, LiDAR, digital twins, and more
Concurrent Spaces	Business Matching, Conference Stage, Open Lounge



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2	Gangneung City	P3
3	Byda Co., Ltd.	P4
4	Gangneung Science&Industry Promotion Agency	P7_1
5	China ITS Industry Alliance	P7_2
6	STraffic Co., Ltd	P9
7	JINWOO ATS CO., LTD	P11
8	SOS LAB Co., Ltd.	P13
9	LIG	P15_1
10	LIG Accuver Co., Ltd.	P15_2
11	bitsensing	S1
12	Ettifos Co.	S2
13	IRE Solution	S5_1
14	Utopia Traffic Information	S5_2
15	SAESOL Tech, Inc.	S6_1
16	MDS Tech	S6_2
17	Cohda Wireless	S6_3
18	ITS Singapore · SkyToll, a. s. · TTS Group Pte Ltd	S9
19	Vector Informatik	S10_1
20	STAR Systems International Ltd.	S10_2
21	Wavetronix	S13_1
22	AhnLab, Inc.	S13_2
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ZONE 2

No.	Company Name	Booth No.
1	Birmingham 2027 UK & ERTICO - ITS European Pavilion · AGD Systems Ltd · AUMOVIO · CAR 2 CAR Communication Consortium · ERTICO - ITS Europe · Podaris · Q-FREE NORGE AS · TAMDATA GMBH · Zenzic	P17,P19
2	NOVITEC Co.,Ltd.	P21
3	Toyota Motor Corporation	P22,P24
4	Advanced Drone Traffic Pavilion (Korea Institute of Aviation Safety Technology)	P26
5	Korea Expressway Corporation	P27
6	MOLIT AX Sprint	P30, P31
7	Gangwon State	S20
8	MClavis Co.,Ltd.	S21
9	UDNS Co., Ltd.	S23
10	Gangwon Information & Culture Industry Promotion Agency	S24_1
11	NatureIT Co., Ltd.	S24_2
12	KETI(Korea Electronics Technology Institute)	S27_1
13	Easy Traffic Technology	S27_2
14	ITS Indonesia	S28
15	TS(Korea Transportation Safety Authority)	S31
16	Vueron Technology Co., Ltd.	S32_1
17	TRASYS Co., Ltd.	S32_2
18	AutoL Co., Ltd.	S35
19	IDCITI	S36_1
20	Quantum HiTech Co., Ltd	S36_2

Premium Plus Premium
Standard Plus Standard

ZONE3

No.	Company Name	Booth No.
1	Hyundai Motor Group	P2
2	Lotte Innovate	P5
3	KADIF(Korea Autonomous driving Development Innovation Foundation) · BEYLESS CO., LTD. · Bluesignal, Inc. · Byda · C&BIS · CUUVA Inc. · GITSN · Hanyang University · ITS KOREA · KATECH · Korea Transportation Safety Authority · MQNIC · MYONGJI UNIV. · Penta System Tech. · TESLA SYSTEM Co.,Ltd.	P6
4	Korea Road Traffic Authority	P8
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7	AUTOCRYPT CO., LTD	S3_1
8	NEOTRAFFIC · JDONE CO., LTD.	S3_2
9	Digital Road Register	S4_1
10	CORESYSTEMS	S4_2
11	ECOBIT	S7_1
12	WAYS1 Inc.	S7_2
13	WECO	S8_1

Premium Plus Premium
Standard Plus Standard

No.	Company Name	Booth No.
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15	Nota Inc	S8_3
16	SIGNTELECOM	S11
17	ITS Suzhou	S12
18	VanJee Technology Co., Ltd	S15
19	ITS AP(ITS Asia-Pacific)	S16
20	TomTom · INAVI SYSTEMS Corp.	S19
21	SEYOND	S39, S40
22	smartmicro	S41
23	ComLASER Co., Ltd.	S42
24	WiFive Co., Ltd	S43
25	NyouL Co.,Ltd.	S44
26	intobyte	S45
27	Miovision Technologies Incorporated	S46
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29	Seoul Robotics Co Ltd	S48
30	LSLiDAR(Leishen Intelligent System Co.,Ltd.)	S49
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ZONE 4

	Premium Plus	Premium
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4	DENSO CORPORATION · Sakura International Co.Ltd	P25
5	Gyeonggi Future Mobility Center (Advanced Institute of Convergence Technology) · CITYEYELAB · SUM Inc.	P28
6	FORUM8 Co., Ltd.	S22
7	ITS Japan · Cabinet Office Secretariat of Science, Technology and Innovation Policy · Electricity and Telecommunication Office, (Minister's Secretariat) · Ministry of Land, Infrastructure, Transport and Tourism · FUJITSU LIMITED · Hitachi Solutions, Ltd. · ITS Info-communications Forum · JTEKT Corporation · KDDI CORPORATION · KOITO MANUFACTURING CO., LTD. · Ministry of Economy, Trade and Industry · Ministry of Internal Affairs and Communications · Ministry of Land, Infrastructure, Transport and Tourism and Road Bureau · Mitsubishi Electric Corporation · Mitsubishi Heavy Industries, Machinery Systems, Ltd. · NAGOYA ELECTRIC WORKS CO., LTD · NEC Corporation · Oki Electric Industry Co., Ltd. · Panasonic Automotive Systems Co., Ltd · PTV Group Japan Ltd. · SUMITOMO ELECTRIC INDUSTRIES, LTD · Toyota Tsusho Corporation · UTMS Society of Japan · Vehicle Information and Communication System Center	S25
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No.	Company Name	Booth No.
8	Honda Motor CO., Ltd.	S33,S34
9	SAFRAN	S37_1
10	Intospace Co. LTD.	S37_2
11	EdgeDX Co., Ltd.	S38_1,3
12	Studio Galilei Co., Ltd.	S38_2
13	SUNDOSOFT Co., Ltd.	S38_4
14	Neuweb Pty Ltd	S54
15	IRF(International Road Federation)	S55
16	Dareesoft Inc.	S56
17	SungPoong Solled Co., Ltd.	S57
18	Zhengzhou Hengliang Tech Co., Ltd.	S58
19	LBS Tech	S59
20	AVGenius	S60
21	TUWEI	S61
22	Retro Tek	S62
23	Y-TECH	S63
24	Intertraffic Worldwide Events	S64
25	7ITSNEWS	S65
26	Hexagon	S66
27	OSCO Co., Ltd.	S67
28	SMART RADAR SYSTEM, INC	S68_1
29	Google	S68_2

Business Matching & Conference Stage

Business Matching Overview

Business Matching connects companies and organizations in the ITS sector through one-to-one meetings based on shared interests and business needs. Participants can exchange technical and business information, meet potential partners, and explore opportunities for international collaboration.

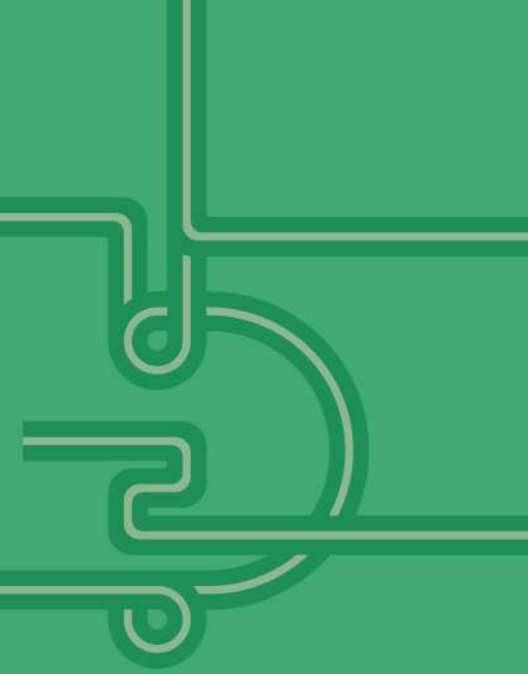
Date	October 19–23, 2026
Venue	Exhibition Hall, 1F, Gangneung Oval
Participants	Registrants of the 2026 Gangneung ITS World Congress
Format	One-to-one meetings arranged through meeting requests and acceptance

Conference Stage Overview

The Conference Stage features presentations by ITS companies and organizations, showcasing their technologies, products, and solutions. Open to all exhibition visitors, the sessions cover autonomous driving, V2X communications, AI-based traffic management, and other ITS topics, highlighting technology trends and practical applications.

Date	October 20–23, 2026
Venue	Conference Stage, Exhibition Hall, 1F, Gangneung Oval
Participants	Registrants of the 2026 Gangneung ITS World Congress
Topic	Presentations by company and organization representatives on technologies, products, solutions, and related case studies
Language	English

Technical Visits & Demonstrations



Technical Visits

Overview, Map

ITS Technical Visit Programs Across Gangwon, Korea

The 2026 Gangneung ITS World Congress offers technical visit programs that provide participants with the opportunity to directly explore ITS and smart transportation and urban infrastructure systems currently implemented and operated in Gangneung and other major regions across Korea.

From urban traffic operations and expressways to long road tunnels, disaster response facilities, and areas adjacent to the DMZ, participants will be able to experience real-world ITS systems operating in diverse environments.

Each program showcases Korea’s real-world ITS operational capabilities across a range of environments, including mountainous regions, urban areas, and highways centered around the Gangwon region.

Technical Visit Pick-up & Drop-off Point
Outdoor Plaza in front of the Gangneung Convention Center 1F Entrance



Technical Visits

Tv 1. Gangneung Urban Information Center & ITS Site Visit

Operating Date/Time	October 20–23, 2026 (Tue–Fri) 1st 09:00-11:30 2nd 14:30-17:00
Location	33, Gangneung-daero, Gangneung-si, Gangwon-do, Republic of Korea
Introduction	Gangneung Urban Information Center is the city’s core traffic and urban operations facility, integrating the management of traffic conditions, CCTV systems, traffic signals, and on-site ITS infrastructure. Participants will be able to observe how the control system is connected with field infrastructure in real time and explore practical ITS operation cases implemented in Gangneung, the host city.
Key Highlights	Urban traffic operation and management system, including CCTV monitoring, traffic signal control, and incident detection On-site ITS infrastructure such as real-time signal systems, roundabouts, and smart crosswalks



Technical Visits

Tv 2. Inje-Yangyang Tunnel & Naerincheon Service Area

Operating Date/Time	October 20–23, 2026 (Tue–Fri) 1st 09:00-12:30 2nd 14:00-17:30
Location	• 129, Seoul Yangyang Expressway, Girin-myeon, Inje-gun, Gangwon-do, Republic of Korea • 117-2, Seoul Yangyang Expressway, Sangnam-myeon, Inje-gun, Gangwon-do, Republic of Korea
Introduction	The Inje-Yangyang Tunnel, the longest road tunnel in Korea running through the mountainous terrain of Gangwon Province, offers participants an opportunity to explore advanced operational systems required for long tunnel management, including traffic control, ventilation, fire response, and emergency communication systems. The program also includes a visit to Naerincheon Service Area, Korea’s first highway overpass-type service area, where participants can examine the integrated service operations and user-oriented facility management of Korean highway rest areas.
Key Highlights	• Emergency response procedures for tunnel incidents such as accidents and traffic congestion • Real-time monitoring system for tunnel traffic conditions and facility status • Site visit to Korea’s first overpass-type highway service area



Technical Visits

Tv 3. Forest Fire Center of Gangwon State & Goseong Unification Observatory

Operating Date/Time	October 20–22, 2026 (Tue–Thu) • 09:00-16:10
Location	• 2530-27, Jingogae-ro, Yeongok-myeon, Gangneung-si, Gangwon-do, Republic of Korea • 457, Tongiljeonmangdae-ro, Hyeonnae-myeon, Goseong-gun, Gangwon-do, Republic of Korea
Introduction	This program offers participants the opportunity to experience both a wildfire monitoring and response system based in the mountainous terrain of Gangwon Province and the DMZ-adjacent region. At the Wildfire Prevention Center, participants can explore advanced public safety operation cases, including AI-based wildfire detection, CCTV monitoring systems, and real-time emergency response systems. The tour also includes a visit to the Goseong Unification Observatory, where participants can directly experience the unique geographical and security environment of the Korean Peninsula. ※ Participants’ dates of birth will be collected at a later date for access to the Unification Observatory.
Key Highlights	AI-based wildfire sign detection, high-risk area monitoring, and real-time wildfire surveillance systems



Technical Visits

Tv 4.(Special Technical Visit) Korea Expressway Corporation Traffic Control Center & Deokpyeong Service Area

Operating Date/Time	October 23, 2026 (Fri) · 09:00-15:30
Location	· 246, Daewangpangyo-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea · 287-76, Deogi-ro 154beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea
Introduction	The Korea Expressway Corporation Traffic Control Center is the core national facility responsible for real-time monitoring of traffic conditions across the country's expressway network and responding to incidents, accidents, and congestion. Participants will have the opportunity to explore Korea's expressway ITS operation systems firsthand, including AI-based traffic incident detection, traffic information services, and accident response systems. The program also includes a visit to Deokpyeong Service Area, a large-scale complex highway rest area featuring various cultural and convenience facilities, where participants can experience Korea's user-oriented expressway service environment. ※ This program is a one-way tour ending at Seoul Station.
Key Highlights	AI-based incident detection, accident and congestion management, and traffic information service systems Site visit to a large-scale expressway service area featuring various cultural and convenience facilities



Demonstrations

Overview, Layout

Demonstrations Overview	The 2026 Gangneung ITS World Congress presents demonstrations by 16 companies and organizations. Two indoor exhibitors and 14 outdoor participants introduce parking robots, traffic safety, LiDAR monitoring, autonomous driving and V2X technologies.
Dates	19–23 October 2026
Outdoor	19 Oct 14:00–18:00 / 20–22 Oct 09:00–18:00 / 23 Oct 09:00–12:30 / Lunch break: 12:30–14:00
Indoor	During exhibition hours
How to Participate	Programs include open and scheduled demonstrations. For demonstration rides, visit the company booth to reserve a preferred time. See each Demo page and on-site notices for schedules and capacity. Indoor programs follow exhibition admission rules.



Demonstrations

Demo 1_Autonomous A2Z

Schedule

10/19(Mon)		10/20(Tue)		10/21(Wed)		10/22(Thu)		10/23(Fri)	
Start	End	Start	End	Start	End	Start	End	Start	End
14:00	14:20	09:00	09:20	09:00	09:20	09:00	09:20	09:00	09:20
14:30	14:50	09:30	09:50	09:30	09:50	09:30	09:50	09:30	09:50
15:00	15:20	10:00	10:20	10:00	10:20	10:00	10:20	10:00	10:20
15:30	15:50	10:30	10:50	10:30	10:50	10:30	10:50	10:30	10:50
16:00	16:20	11:00	11:20	11:00	11:20	11:00	11:20	11:00	11:20
16:30	16:50	11:30	11:50	11:30	11:50	11:30	11:50	11:30	11:50
17:00	17:20	12:00	12:20	12:00	12:20	12:00	12:20	12:00	12:20
17:30	17:50	14:00	14:20	14:00	14:20	14:00	14:20		
		14:30	14:50	14:30	14:50	14:30	14:50		
		15:00	15:20	15:00	15:20	15:00	15:20		
		15:30	15:50	15:30	15:50	15:30	15:50		
		16:00	16:20	16:00	16:20	16:00	16:20		
		16:30	16:50	16:30	16:50	16:30	16:50		
		17:00	17:20	17:00	17:20	17:00	17:20		
		17:30	17:50	17:30	17:50	17:30	17:50		

Location



Venue

Outdoor demonstration area / Hockey Centre Parking Lot

Demonstration Title

Rooi, Driverless Autonomous Robo-Shuttle

Overview

Rooi is a domestically developed Level 4 robo-shuttle with no driver's seat, designed and manufactured in-house and equipped with full-stack autonomous driving technology.

Technology Overview

The interior includes a wheelchair-friendly space, displays for autonomous driving and stop information, and an emergency communication system.

Demonstration Scenario

Visitors board at the outdoor demonstration area, travel around Olympic Park and return. Reserve a preferred time at the booth. Each session accommodates up to eight visitors.

Confirm the detailed schedule when booking on-site.



Demonstrations

Demo 2_Beyless

Schedule

[illegible]

Location



Venue

Outdoor demonstration area / Hockey Centre Parking Lot

Demonstration Title

Digital Twin-Enabled Real-Time Traffic Management Using Ground-Aerial LiDAR Fusion

Overview

This technology combines LiDAR data from ground vehicles and drones in real time to create a digital twin of the road environment. AI object recognition and anomaly detection support integrated monitoring of traffic and infrastructure.

Technology Overview

The digital twin display presents site conditions using combined ground and aerial data. It analyzes vehicle congestion at intersections in real time.

Demonstration Scenario

Visitors receive an introduction and briefing in the mobile control center vehicle, then view real-time congestion analysis on the monitoring display. On-site staff guide visitors through the demonstration.



Demonstrations

Demo 3_GnT Solution

Schedule

10/19(Mon)		10/20(Tue)		10/21(Wed)		10/22(Thu)		10/23(Fri)	
Start	End	Start	End	Start	End	Start	End	Start	End
14:00	18:00	09:00	12:30	09:00	12:30	09:00	12:30	09:00	12:30
		14:00	18:00	14:00	18:00	14:00	18:00		

Location



- Venue

Outdoor demonstration area / Hockey Centre Parking Lot
- Demonstration Title

MEDA
- Overview

MEDA uses AI image recognition to automatically detect seat belt use by occupants of moving vehicles in real time. Visitors can view the detection results and learn about applications on actual roads.
- Technology Overview

The system detects seat belt use in the first and second rows of a moving vehicle and reports the results.
- Demonstration Scenario

After an introduction to MEDA, visitors board a vehicle and travel approximately 30 m. The system detects seat belt use across the occupied seats in real time, and staff explain the results and road applications.



Demonstrations

Demo 4_HANGIL HC Co., Ltd.

Schedule

10/19(Mon)		10/20(Tue)		10/21(Wed)		10/22(Thu)		10/23(Fri)	
Start	End	Start	End	Start	End	Start	End	Start	End
12:30	18:30	10:00	18:00	10:00	18:00	10:00	18:00	10:00	15:00

Location



- Venue

Indoor demonstration area / Gangneung Oval
- Demonstration Title

Smart Crosswalk
- Overview

LiDAR or RADAR detects pedestrians approaching or waiting at a crosswalk. Visitors can experience a system that supports safe crossing through pavement signal lights and voice guidance.
- Technology Overview

Red and green pedestrian signals synchronize with the main signal controller. LED modules embedded along the waiting line display the signals, while sensors detect waiting pedestrians and trigger voice guidance.
- Demonstration Scenario

At the booth, visitors experience the pavement signal lights, pedestrian detection and voice guidance of the smart crosswalk. On-site staff explain the technology and provide briefings.



Demonstrations

Demo 5_HL Robotics

Schedule

[illegible]

Location



Venue Outdoor demonstration area / Hockey Centre Parking Lot

Demonstration Title	STAN Outdoor Autonomous Parking Robot
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Overview STAN is an outdoor parking robot that moves vehicles autonomously using intelligent vehicle entry and retrieval management software. The demonstration shows the parking, relocation and retrieval of multiple vehicles.

Technology Overview The outdoor robotics solution combines hardware and software and can operate in varied weather conditions and temperatures. It supports a maximum load of 3 tonnes.

Demonstration Scenario The demonstration covers long-distance parking, a comparison of parking space efficiency, relocation between spaces and retrieval preparation, and retrieval from tandem parking. Visitors can attend at the scheduled start times.



Demonstrations

Demo 6_HYUNDAI WIA Corp.

Schedule

[illegible]

Location



Venue | Indoor demonstration area / Gangneung Oval

Demonstration Title	Smart Parking System
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Overview Autonomous parking robots detect surrounding obstacles and driving paths to transport and park a vehicle. The demonstration shows the robots entering beneath the vehicle and lifting its tires for automated transport.

Technology Overview Rule-based information, including QR codes, supports position and orientation estimation. The robots use an ultra-low-profile structure, route planning that accounts for avoidance space, and LiDAR for obstacle detection and route adjustment.

Demonstration Scenario The robots extend their arms and rotate, perform single towing, and lift the vehicle using two robots. They demonstrate sideways crab motion and a 90-degree turn before returning to the starting position. On-site staff provide guidance and briefings.



Demonstrations

Demo 7 ITS Korea

Schedule

10/19(Mon)		10/20(Tue)		10/21(Wed)		10/22(Thu)		10/23(Fri)	
Start	End	Start	End	Start	End	Start	End	Start	End
14:00	15:00	10:00	11:00	10:00	11:00	10:00	11:00		
15:00	16:00	11:00	12:00	11:00	12:00	11:00	12:00		
		14:00	15:00	14:00	15:00	14:00	15:00		
		15:00	16:00	15:00	16:00	15:00	16:00		

Location



- Venue

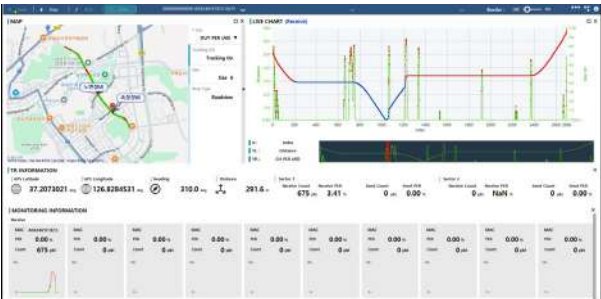
Outdoor demonstration area / Hockey Centre Parking Lot
- Demonstration Title

LTE-V2X Roadside Unit Performance Evaluation under Communication Congestion
- Overview

This demonstration uses an LTE-V2X roadside unit and reference equipment to evaluate transmission and reception performance under communication congestion. Visitors view the evaluation results on a monitor inside the vehicle.
- Technology Overview

A vehicle equipped with an LTE-V2X roadside station displays roadside unit performance under congested communication conditions.
- Demonstration Scenario

Visitors board the evaluation vehicle and view results on the monitor. Reserve a preferred time at the booth. Each session accommodates four visitors.



Demonstrations

Demo 8 JINWOO ATS

Schedule

10/19(Mon)		10/20(Tue)		10/21(Wed)		10/22(Thu)		10/23(Fri)	
Start	End	Start	End	Start	End	Start	End	Start	End
14:00	18:00	09:00	12:20	09:00	12:20	09:00	12:20	09:00	12:20
		14:00	18:00	14:00	18:00	14:00	18:00		

Location



- Venue

Outdoor demonstration area / Hockey Centre Parking Lot
- Demonstration Title

MLFF Using Wide-Coverage RFID and Next-Generation ANPR
- Overview

This MLFF system combines next-generation ANPR with image detection and license plate recognition, and wide-coverage RFID antennas for multiple lanes. Visitors view real-time vehicle detection and toll processing results as vehicles pass through.
- Technology Overview

The system combines ANPR license plate recognition with RFID detection to process vehicle passage information across multiple lanes.
- Demonstration Scenario

As vehicles pass beneath a gantry resembling a road installation, the monitoring screen displays detection and toll processing results. Sessions start at :00, :20 and :40 each hour. Please check the on-site notice for daily operating hours.



Demonstrations

Demo 9_KOREA ROAD TRAFFIC AUTHORITY

Schedule

10/19(Mon)		10/20(Tue)		10/21(Wed)		10/22(Thu)		10/23(Fri)	
Start	End	Start	End	Start	End	Start	End	Start	End
14:00	16:00	10:00	12:30	10:00	12:30	10:00	12:30	10:00	12:30
		14:00	16:00	14:00	16:00	14:00	16:00		

Location



Venue

Outdoor demonstration area / Hockey Centre Parking Lot

Demonstration Title

EW-TSIS(Extreme Weather - Traffic Safety Information Services)

Overview

AI combines data from tire-embedded multi-sensors and vehicle operation to analyze road surfaces in real time and generate traffic information for accident prevention. The demonstration also introduces an alcohol ignition interlock that prevents a vehicle from starting when the driver is intoxicated.

Technology Overview

This technology uses AI to analyze tire sensor and vehicle operation data to detect road hazards such as potholes, hydroplaning, and black ice in real time. It provides accident-prevention information, including the location and type of each hazard.

Demonstration Scenario

Visitors can examine the components of the vehicle on display. On-site staff use presentation materials to explain the detailed functions of the vehicle and device.



Demonstrations

Demo 10_LG Electronics

Schedule

10/19(Mon)		10/20(Tue)		10/21(Wed)		10/22(Thu)		10/23(Fri)	
Start	End	Start	End	Start	End	Start	End	Start	End
		10:00	10:15	10:00	10:15	10:00	10:15		
		10:15	10:30	10:15	10:30	10:15	10:30		
		10:30	10:45	10:30	10:45	10:30	10:45		
		11:00	11:15	11:00	11:15	11:00	11:15		
		11:15	11:30	11:15	11:30	11:15	11:30		
		11:30	11:45	11:30	11:45	11:30	11:45		
		14:00	14:15	14:00	14:15	14:00	14:15		
		14:15	14:30	14:15	14:30	14:15	14:30		
		14:30	14:45	14:30	14:45	14:30	14:45		
		15:00	15:15	15:00	15:15	15:00	15:15		
		15:15	15:30	15:15	15:30	15:15	15:30		
		15:30	15:45	15:30	15:45	15:30	15:45		
		16:00	16:15	16:00	16:15	16:00	16:15		
		16:15	16:30	16:15	16:30	16:15	16:30		
		16:30	16:45	16:30	16:45	16:30	16:45		

Location



Venue

Outdoor demonstration area / Hockey Centre Parking Lot

Demonstration Title

V2N-Based Cooperative Automated Driving Services

Overview

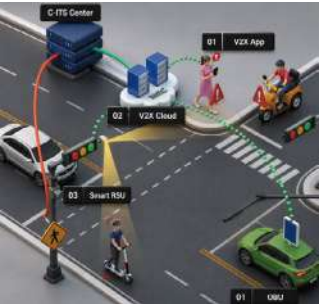
Visitors experience vehicle safety services combining V2N and V2X technologies during a demonstration ride. The vehicle circulates around Olympic Park, presenting hazard information and driving alerts that address NCAP safety assessment scenarios.

Technology Overview

The services provide alerts for objects on the road, stopped vehicles, construction zones, emergency vehicles, signal phase information and collision risks involving vulnerable road users. They also report broken-down vehicles, poor roads and poor weather.

Demonstration Scenario

As the vehicle approaches each scenario point, visitors view alerts on the vehicle display while it slows down. It stops and resumes when an emergency vehicle approaches. Book at the LG Electronics booth. Each session accommodates four visitors.



Demonstrations

Demo 11_Ouster

Schedule

10/19(Mon)		10/20(Tue)		10/21(Wed)		10/22(Thu)		10/23(Fri)	
Start	End	Start	End	Start	End	Start	End	Start	End
14:00	18:00	09:00	12:30	09:00	12:30	09:00	12:30	09:00	12:30
		14:00	18:00	14:00	18:00	14:00	18:00		

Location



Venue

Outdoor demonstration area / Hockey Centre Parking Lot

Demonstration Title

Crowd Management Using LiDAR Perception Software

Overview

A LiDAR sensor and edge PC installed at the exhibition entrance detect crowds in real time. Visitors can view the analysis on a screen and see how the technology supports crowd management at the venue.

Technology Overview

The perception software converts complex, large-scale point cloud data into information that can be used for crowd analysis.

Demonstration Scenario

The screen displays real-time crowd analysis from the LiDAR installed at the exhibition venue. On-site staff provide technology explanations and briefings at the outdoor demonstration booth.



Demonstrations

Demo 12_Picker Project

Schedule

10/19(Mon)		10/20(Tue)		10/21(Wed)		10/22(Thu)		10/23(Fri)	
Start	End	Start	End	Start	End	Start	End	Start	End
14:00	14:40	10:00	10:40	10:00	10:40	10:00	10:40		
15:00	15:40	11:00	11:40	11:00	11:40	11:00	11:40		
16:00	16:40	12:00	12:30	12:00	12:30	12:00	12:30		
		14:00	14:40			14:00	14:40		
		15:00	15:40			15:00	15:40		
		16:00	16:40			16:00	16:40		

Location



Venue

Outdoor demonstration area / Hockey Centre Parking Lot

Demonstration Title

BILINY: Lightweight AI Autonomous Micro Pod

Overview

BILINY is a single-seat micro pod that uses camera-based object recognition to enable low-cost autonomous driving without LiDAR. The demonstration introduces mobility technology and an on-site operating system for older adults and people with limited mobility.

Technology Overview

The mobility solution combines camera-based perception with an on-site operating system. The demonstration also introduces how its real-time monitoring system operates.

Demonstration Scenario

Visitors take a ride in a simulated driving environment within the demonstration area. Reserve a preferred time at the booth and confirm the detailed schedule when booking on site.



Demonstrations

Demo 13_Sin Woo Eng

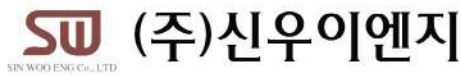
Schedule

10/19(Mon)		10/20(Tue)		10/21(Wed)		10/22(Thu)		10/23(Fri)	
Start	End	Start	End	Start	End	Start	End	Start	End
14:00	18:00	09:00	12:30	09:00	12:30	09:00	12:30	09:00	12:30
		14:00	18:00	14:00	18:00	14:00	18:00		

Location



- Venue** | Outdoor demonstration area / Hockey Centre Parking Lot
- Demonstration Title** | Smart Bus Shelter Integrating IoT and Eco-Friendly Energy
- Overview** | This smart bus shelter provides fine dust protection and heating and cooling. Visitors can experience its convenience features, including heated benches inside and outside the shelter and wireless charging.
- Technology Overview** | The shelter solution incorporates IoT technology and eco-friendly energy. It integrates environmental control for the waiting area with user convenience features.
- Demonstration Scenario** | Visitors experience the main features in the smart shelter installed at the demonstration area. On-site staff explain how the features work and introduce the technology.



Demonstrations

Demo 14_SOSLAB

Schedule

10/19(Mon)		10/20(Tue)		10/21(Wed)		10/22(Thu)		10/23(Fri)	
Start	End	Start	End	Start	End	Start	End	Start	End
14:00	18:00	09:00	12:30	09:00	12:30	09:00	12:30	09:00	12:30
		14:00	18:00	14:00	18:00	14:00	18:00		

Location



- Venue** | Outdoor demonstration area / Hockey Centre Parking Lot
- Demonstration Title** | LiDAR Outdoor Parking Space Guidance System
- Overview** | LPGS (LiDAR Parking Guidance System) uses LiDAR sensors to detect parking space occupancy in real time. It connects with external systems to guide drivers to available spaces.
- Technology Overview** | LiDAR detects available parking spaces, while integrated detection enables vehicle tracking. The demonstration also introduces a solution for identifying where vehicles are parked.
- Demonstration Scenario** | Visitors view the results of parking space detection and vehicle location identification on the display. On-site staff guide the experience and explain the technology in the open demonstration area.



Demonstrations

Demo 15_SUM

Schedule

10/19(Mon)		10/20(Tue)		10/21(Wed)		10/22(Thu)		10/23(Fri)	
Start	End	Start	End	Start	End	Start	End	Start	End
14:00	14:20	09:00	09:20	09:00	09:20	09:00	09:20	09:00	09:20
14:30	14:50	09:30	09:50	09:30	09:50	09:30	09:50	09:30	09:50
15:00	15:20	10:00	10:20	10:00	10:20	10:00	10:20	10:00	10:20
15:30	15:50	10:30	10:50	10:30	10:50	10:30	10:50	10:30	10:50
16:00	16:20	11:00	11:20	11:00	11:20	11:00	11:20	11:00	11:20
16:30	16:50	11:30	11:50	11:30	11:50	11:30	11:50	11:30	11:50
17:00	17:20	12:00	12:20	12:00	12:20	12:00	12:20	12:00	12:20
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		14:30	14:50	14:30	14:50	14:30	14:50		
		15:00	15:20	15:00	15:20	15:00	15:20		
		15:30	15:50	15:30	15:50	15:30	15:50		
		16:00	16:20	16:00	16:20	16:00	16:20		
		16:30	16:50	16:30	16:50	16:30	16:50		
		17:00	17:20	17:00	17:20	17:00	17:20		
		17:30	17:50	17:30	17:50	17:30	17:50		

Location



Venue Outdoor demonstration area / Hockey Centre Parking Lot

Demonstration Title Autonomous Bus Powered by SMOBI®

Overview SMOBI® is an in-house full-stack autonomous driving solution that integrates perception, decision-making, localization and control. Visitors experience autonomous driving aboard a bus using AI and sensor fusion technology.

Technology Overview The autonomous bus includes passenger displays and a steering display. The vehicle has 14 passenger seats, while this demonstration accommodates 12 visitors per session.

Demonstration Scenario Visitors board at the outdoor demonstration area, travel around Olympic Park and return. Reserve a preferred time at the booth.



Demonstrations

Demo 16_Wayties Consortium

Schedule

① LTE-V2X-based C-ITS Safety Services applying SLSS in GNSS-Denied Environments

10/19(Mon)		10/20(Tue)		10/21(Wed)		10/22(Thu)		10/23(Fri)	
Start	End	Start	End	Start	End	Start	End	Start	End
		11:00	11:20	11:00	11:20				
		15:00	15:20	15:00	15:20				

② Euro NCAP V2V Cut-Out & SDSM-based Intersection Collision Warning (ICW) Safety Services

10/19(Mon)		10/20(Tue)		10/21(Wed)		10/22(Thu)		10/23(Fri)	
Start	End	Start	End	Start	End	Start	End	Start	End
		10:00	11:00	10:00	11:00				
		14:00	15:00	14:00	15:00				
		16:00	17:00	16:00	17:00				

Location



Venue Outdoor demonstration area / Hockey Centre Parking Lot

Demonstration Title ① LTE-V2X-based C-ITS Safety Services applying SLSS in GNSS-Denied Environments
② Euro NCAP V2V Cut-Out & SDSM-based Intersection Collision Warning (ICW) Safety Services

Overview Two V2X demonstrations cover tunnel safety services without GNSS coverage and hazard warnings with cooperative perception on public roads.

Technology Overview ① Tunnel: SLSS-based LTE-V2X provides virtual roadwork information (I2V) and emergency vehicle warnings (V2V) without overtaking.
② Roads: Euro NCAP 2026 V2V Cut-Out, ICW, and RSU-delivered SDSM data on blind-spot pedestrians and personal mobility users

Demonstration Scenario ① Dangdu Tunnel safety demonstration and return: up to 20 minutes, 4 visitors.
② V2V Cut-Out and ICW near Gyeongpo Aquarium and return: up to 60 minutes, 6 visitors. Reserve either demonstration at the booth.

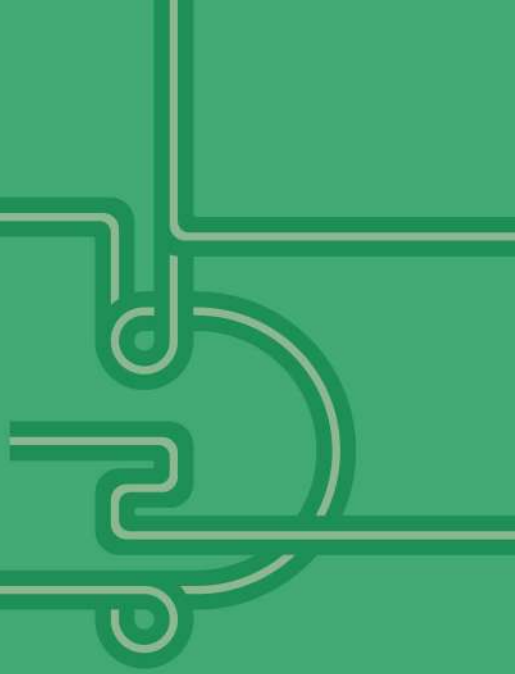
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LOTTE INNOVATE COMPANY

Company Overview

LOTTE INNOVATE is the IT services arm of LOTTE Group, driving business transformation across diverse industries, including retail and consumer services, by integrating its IT and Digital Transformation (DT) capabilities with clients’ core operations. In the mobility sector, the company is actively expanding its footprint across the future mobility landscape, leveraging AI technology to advance Autonomous Driving, Smart Tolling, and ITS/C-ITS solutions.

Autonomous Mobility Services

We deliver safe and sustainable mobility services powered by autonomous driving technology. Our services are built around MUVU, a next-generation autonomous. MUVU was South Korea’s first autonomous vehicle designed without a driver’s seat, to receive an operational permit for driving speeds of up to 40 km/h. We have deployed and operated autonomous mobility services in diverse real-world settings, including urban areas, tourist destinations, and campuses. Our service areas include Gangneung, Jeju, Gyeongju, Sejong, and Suncheon. Building on extensive real-world experience and technical expertise, we are expanding our autonomous solutions into diverse industries – from daily transportation to unmanned retail and security patrol robots.

Vision AI Smart Tolling

Powered by Vision AI, we deliver precise and reliable smart tolling across single, multi-lane, and highway environments. Leveraging generative AI trained on vast number plate datasets, our technology quickly identifies diverse vehicle details – including number plate numbers across countries and languages, as well as vehicle brands and models. Beyond tolling, we expand Vision AI into subway platform safety, real-time on-road incident detection, and physical AI to drive intelligence across everyday life and diverse industries.

Cooperative-Intelligent Transport Systems (C-ITS) Infrastructure and Services

We connect vehicles, roads, and pedestrians in real time to build a safer, more efficient transportation system. By relaying real-time hazard data – such as school zone incidents and blind spot risks at intersections or sharp curves – directly to vehicles, our C-ITS solution enables drivers to respond proactively to unseen dangers. This cooperative infrastructure supports safe driving for both autonomous and conventional vehicles while enhancing safety and convenience for all road users.

Sponsors

Emerald



Hyundai Motor Company

Founded in 1967, Hyundai Motor Company(HMC) operates in more than 200 countries worldwide, with over 120,000 employees dedicated to addressing real-world mobility challenges across the globe.

Guided by its brand vision, “Progress for Humanity,” HMC is accelerating its transformation into an innovative company that extends beyond mobility through advanced robotics and Physical AI. HMC is also actively investing in emerging technologies and promoting open innovation to deliver innovative solutions and enable the adoption of future mobility services.

To realize a sustainable future, HMC continues its efforts to reduce carbon emissions through an industry-leading eco-friendly powertrain portfolio, including Internal Combustion Engine (ICE), Hybrid Electric Vehicle (HEV), Plug-in Hybrid Electric Vehicle (PHEV), Fuel Cell Electric Vehicle (FCEV), and Battery Electric Vehicle (EV) technologies.

Sponsors

Platinum



PharmaResearch

PharmaResearch is a South Korean biopharmaceutical company specializing in regenerative medicine, dedicated to enhancing the quality of human life through health and beauty.

Leveraging its patented DNA Optimizing Technology (DOT®), the company develops innovative regenerative solutions based on PDRN (polydeoxyribonucleotide) and PN (polynucleotide) derived from salmon returning to Korea's east coast.

Its business portfolio spans pharmaceuticals, medical devices, cosmetics, and health functional foods, with flagship products including REJURAN® and CONJURAN®.

PharmaResearch continues to advance regenerative medicine through collaborations with leading pharmaceutical companies and research institutions in Europe and the United States.

Platinum



Qualcomm

Building on 41 years of technology leadership, Qualcomm delivers advanced AI, high-performance, low-power computing, and world-class connectivity, driving the expansion of intelligent experiences from the edge to the cloud. In Korea, Qualcomm works with a broad range of industry and public-sector partners to support the development and adoption of advanced wireless technologies, intelligent edge solutions, and next-generation technologies. With its end-to-end AI capabilities spanning the cloud to the edge, integrated platforms, and longstanding investment in the Korean market, Qualcomm continues to strengthen its role as a key strategic partner.

In automotive, Qualcomm works across Korea's automotive ecosystem, providing Snapdragon Digital Chassis™ solutions spanning the digital cockpit, advanced driver assistance systems (ADAS), and automotive connectivity. Building on these capabilities, Qualcomm continues to expand into future mobility areas, including software-defined vehicles (SDVs) and AI-powered vehicle platforms.

At ITS World Congress 2026, Qualcomm will showcase its V2X technologies and solutions for next-generation connected mobility, including concurrent multi-technology V2X operation and dual-band V2X system. The demonstrations will also highlight the value of V2X as a complementary sensor for ADAS and smart V2X infrastructure as a key pillar of intelligent transportation systems (ITS).

Sponsors

Gold



HJ Shipbuilding & Construction Co., Ltd.

Prioritizing customers, we continue to grow in all construction fields-infrastructure, architecture, plants, and housing-and are well-known for our innovation skills and strong work ethics.

We succeeded in erecting a steel-framed building, Seoul Shipping Center Building, for the first time in Korea in 1968 and exhibited superb capacity in large-scale national projects, such as Incheon International Airport, Yeongjong Grand Bridge, Incheon Bridge, Gyeongbu KTX, GTX the Seohae Expressway, and Busan New Port.

In particular, we played a central role in building Incheon International Airport throughout the entire process. Now, Incheon International Airport serves as a hub airport in Northeast Asia.

Gold



LIG

LIG is a technology-driven corporate group committed to continuous innovation and future growth.

Through LIG Accuver, Wayties, and MS Lifix, the Group is expanding its business portfolio from mobile communications to future mobility and next-generation networks, creating new technologies and value for the industries of tomorrow.

By seamlessly connecting the specialized capabilities of its affiliates, LIG is strengthening its technological competitiveness and building a differentiated foundation for growth in the global market.

Gold



DAEBO COMMUNICATION & SYSTEMS

DAEBO Communication & Systems, established in 1996, has grown into a leading IT services company with a strong focus on the development and operation of Intelligent Transport Systems (ITS).

Our core capabilities now encompass next-generation transportation technologies such as C-ITS, smart tolling, and autonomous driving infrastructure, as well as IoT-based smart solutions and the active adoption of AI technologies. We are growing into a leading company in Korea's IT service industry, driven by continuous innovation.

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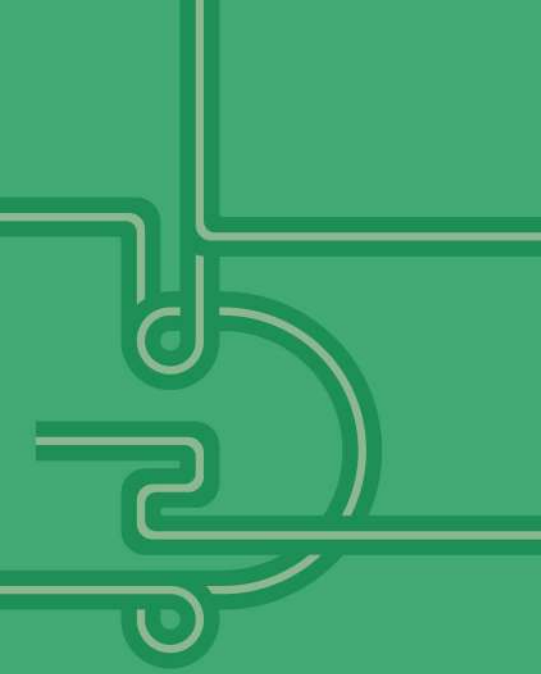
Kakao Mobility Corp.



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Side Events



Youth Program

| Oct 22(Thu) 10:00-17:00

| Hosted by  

| Room 301

| Organized by  

Youth Fellowship

The Youth Fellowship is a youth talent development program jointly organized with the Korean Society of Transportation. Via this program, we identify and nurture future talent in the ITS and mobility sectors and provide students with practical experience and opportunities for growth in these fields. Through a series of well-structured activities, including online training, expert mentoring, and workshops, participants developed their creative ideas in ITS and mobility into more concrete proposals. They explored feasibility and potential for future development.

Program

Date	Program
Jul 20 (Mon)–31 (Fri)	Online Training (4 sessions)
Aug 20 (Thu)–21 (Fri)	Mentoring Workshop (2 days / 1 night)
Oct 22 (Thu)	Final Presentation
	Awards Ceremony

ITS Idea Contest

The ITS Idea Contest is an open competition held under the theme “Beyond Mobility, Connected World: The Future of ITS Envisioned by Youth.” It welcomes young people from Korea and abroad who are interested in Intelligent Transport Systems (ITS) and have creative ideas to share. Through this initiative, the contest aims to discover innovative ideas from young people who will shape the future of ITS and mobility, while presenting new directions and possibilities for the development of future transportation. Taking place on October 22 at the 2026 Gangneung ITS World Congress, the ITS Idea Contest features two categories: the Youth Fellowship and the General. Following a preliminary screening, finalists will take the stage to showcase their creative ideas in a dynamic and enthusiastic presentation session. A panel of seven experts representing academia, industry, and research institutions will score the finalists. The Youth Fellowship category will present eight awards, including the Minister of Land, Infrastructure and Transport Award, while the General category will also present eight awards, with six domestic awards and two international awards.

Program

Time	Program
10:00-10:40	Opening & Presentation Order Draw
10:40-12:50	Youth Fellowship Category Presentations
12:50-14:00	Lunch
14:00-16:20	General Category (Domestic & International) Presentations
16:20-16:45	Score Tabulation and Results
16:45-17:00	Awards Ceremony & Closing

Sponsor Session

DBCS-ASEAN ITS Partnership Meetings (Invitation Only)

| Oct 20(Tue) 09:30-13:00

| Room 301

| Host Organization DAEBO Communication & Systems

In this session, DBCS meets with the ITS associations and industry partners of Singapore, Indonesia, and Thailand to discuss business cooperation in the ITS sector. DBCS will present its latest project references in C-ITS, smart tolling, and AI-based video recognition, together with solutions from its affiliates and partners, while each country shares its ITS landscape and cooperation needs. The session aims to identify joint opportunities in Southeast Asian transport infrastructure and to establish practical, project-oriented partnerships.

Tmoney Mobility Special Session - Beyond Mobility Connected by Trust (Invitation Only)

| Oct 20(Tue) 09:30-18:00

| Room 302

| Host Organization Tmoney Mobility

The morning session focuses on autonomous taxis; it features presentations on related policies and regulations by members of the Ministry of Land, Infrastructure and Transport’s consultative body, followed by remarks from key operational stakeholders in the autonomous taxi ecosystem, creating a forum for discussing the future of mobility. A business networking lunch follows, and the afternoon session begins with a congratulatory address by the Mayor of Gangneung. This session introduces T-Money Mobility’s core services, focusing on customized transportation solutions for local governments. The agenda includes presentations on localized MaaS (Mobility as a Service), industry-academia-research projects, and regional policy-driven taxi services, such as welfare taxis. The event concludes with business meetings following all sessions.

After this main event, T-Money will host an academic conference centered on “Tagless” and “EMV” technologies. (Please note that this conference is also an invitation-only session.)

Sponsor Session

Korea-Netherlands Joint Conference:
Smart Mobility for Future Transportation

| Oct 20(Tue) 11:00-17:00 | Room 303

| Host Organization Province of Noord-Brabant, TNO

This conference will introduce and share the policy directions, research activities, and industry initiatives of the Republic of Korea and the Netherlands in the field of smart mobility.

Key participating organizations: Province of Noord-Brabant, RDW, TNO, Korea Road Traffic Authority (KoROAD), Korea Automotive Technology Institute (KATECH), Ajou University, and companies from both countries.

Korea C-ITS in Action : From Field Trials to an
Integrated Industry Ecosystem

| Oct 20(Tue) 14:00-17:30 | Room 301

| Host Organization Korea C-ITS Industry Alliance (KCITSA)

This KCITSA Special Interest Session brings together 11 member companies to showcase Korea's C-ITS/V2X ecosystem, from field trials to an integrated industry structure. Session I features six companies including the Daejeon-Sejong LTE-V2X pilot project, covering communication, on-board units, and platforms. Session II presents five companies covering tunnel LTE-V2X validation, SDM chipsets, and connected-vehicle safety solutions. The session shares Korea's V2X commercialization status and pathways for industry collaboration with global experts.

Sponsor Session

Redefining Urban Parking:
AI, Data, and Connected City Infrastructure

| Oct 22(Thu) 10:00-11:40 | Room 303

| Host Organization Kakao Mobility Corp.

This session shares how data and AI have transformed parking services and examines their socioeconomic value. Tracing a nine-year journey — from digitalizing a fragmented parking market to standardizing large-scale infrastructure and exporting smart-city solutions to Diriyah, Saudi Arabia — it introduces core technologies including AI-based parking space recognition, automated control, and vacancy prediction algorithms. The session further quantifies, through data, how reduced parking search time helps ease urban congestion and lower carbon emissions, and discusses the future of parking as it evolves into a mobility hub.

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Affiliate Session

International Task Force on Vehicle-Highway Automation 2026 (Invitation Only)

| Oct 18(Sun) 09:00 - 17:00 | Room 106

| Host Organization | ITFVHA

Founder Richard Bishop created ITFVHA “back in the day” as government sponsored automated driving projects were gaining momentum. After 25 meetings, the torch was passed on to Tom Alkim. The meeting has become an annual opportunity to collaborate and share perspectives across the diverse players in this thriving space.

The purpose of this invitation-only meeting is to provide a forum for information exchange and discussion among researchers, government officials, and the private sector regarding ongoing programs to develop and deploy automated driving.

The task force uniquely takes a “big picture” approach, knowing that technical symposia regularly address the technological underpinnings of such systems, and examines ways in which the government authorities, the infrastructure, and the vehicle industry can collaborate/cooperate to most effectively offer these services to society.

Affiliate Session

AASHTO International Day 2026 (Invitation Only)

| Oct 19(Mon) 14:00 - 17:00 | Room 303

| Host Organization | AASHTO

[Background]
AASHTO has organized International Day at the ITS World Congress for more than 10 years, establishing it as a recurring forum where U.S. state DOT leaders and international transportation officials exchange perspectives on deployment of intelligent transportation systems (ITS), emerging technologies, and Transportation Systems Management and Operation (TSMO). The session has grown into a signature AASHTO event, consistently drawing senior executives from State DOTs alongside representatives from ITS Asia-Pacific, ERTICO-ITS Europe, ITS America, and the U.S. Department of Transportation.

[Purpose & Importance]
AASHTO International Day 2026 brings together AASHTO executive leadership and global ITS counterparts to compare approaches to connected corridors, digital infrastructure, and transportation operations, and to prepare for major international events. This session is a timely opportunity to:

- Benchmark U.S. practices against international peers on connected and digital infrastructure.
- Surface lessons learned and innovative practices from countries with recent major event experience.
- Foster international collaboration and knowledge exchange around technology standards and governance.
- Position State DOTs to apply global best practices to upcoming major events and everyday operations.

Affiliate Session

Local Government ITS Policy & Technology Sharing Session

| Oct 21(Wed) 10:00-11:30 | Room 303

| Host Organization ITS Korea

This session is designed for local government ITS officials and will share the 2030 Revised Master Plan for ITS in Road Transportation and the Master Plan for the Regional Emergency Vehicle Preemption System. Furthermore, through a panel discussion on key issues for the development of ITS at the local government level, the session aims to build a shared understanding of domestic and international ITS technology and policy trends.

Introduction to Support Programs for Exporters

| Oct 21(Wed) 13:30-16:50 | Room 303

| Host Organization Export Plus Support Team & ITS Korea

This session introduces export support programs and tailored financial solutions designed for companies participating in the Gangneung ITS World Congress.

Envisioning the Future of ITS with Insight and Foresight: A Dialogue with Senior Leaders for a Sustainable ITS Ecosystem

| Oct 21(Wed) 16:00-17:30 | Room 301

| Host Organization The Korean Society of Intelligent Transport Systems

This session examines current challenges in ensuring sustainability in the ITS sector across environmental, economic, and social dimensions, and discusses potential solutions.

In a dialogue-style discussion, distinguished former presidents of the Korea ITS Society will share their experience and insights to explore medium- and long-term strategies that the Society can pursue to foster a sustainable ITS ecosystem.

Affiliate Session

2026 International Expert Seminar on ITS Standardization - Global ITS Standardization and Emerging Trends in AV/CV

| Oct 22(Thu) 13:00-15:00 | Room 303

| Host Organization MOLIT

| Organizer ITS Korea

This seminar shares the current status of ITS standardization in major countries such as the U.S., Europe, and Japan, along with the latest trends in the field of autonomous vehicles and connected vehicles (AV-CV). Together with experts from Korea and abroad, we will review ITS standardization information and draw implications for strengthening the foundation of international cooperation.

K-NPU Transition & Adoption Meetup for AI-ITS Innovation

| Oct 22(Thu) 13:00-17:00 | Room 302

| Host Organization ITS Korea

This meetup serves as a collaborative platform to explore AI transition pathways leveraging Korean AI semiconductors (K-NPUs) in the ITS and mobility sectors, while spotlighting the vital need for K-NPU adoption. Alongside Korea's leading NPU developers, participants will review ecosystem support programs and the AI-driven technologies and services of ITS enterprises, discussing actionable collaboration strategies—including On-Site Deep-Dives and 1:1 business matching—to build sustainable AI-ITS.

Main Agenda

- Status of ITS AI Use Cases & Migration Bottlenecks
- K-NPU Reverse Pitch
- On-Site Deep-Dive into K-NPU Applications
- 1:1 Business Matching for K-NPU Adoption

Affiliate Session

Future Mobility Traffic safety

Oct 23(Fri) 11:00-12:30

Room 106

I Host Organization Korea Road Traffic Authority

Through innovations in communication technology and AI, various services and changes are expanding in the field of mobility. These changes are generating new demands for traffic safety in a transportation environment where new modes of transport coexist with existing ones.

Furthermore, the types of traffic accident risks caused by climate change are also expanding. In this KoROAD session, we aim to examine safety policies for future mobility (autonomous driving, shared mobility, outdoor mobile robots, robotaxis, demand-responsive transport (DRT), and Urban Air Mobility (UAM)) and discuss development strategies to enhance the core value of traffic safety in the era of integrated mobility.

Trusted Global Partner for the
Future of Mobility

We extend our proven network expertise to connected vehicles, enabling reliable connectivity across V2X, 5G and satellite networks, as well as emergency communications.



Side Events

Drone Light Show



Date & Time	October 19, 2026 (Mon), 20:00–20:30
Venue	Gangneung Convention Center Welcome Plaza
Description	A large-scale performance showcasing a vision of the modern era, where advanced technologies such as drones seamlessly integrate into everyday life, combined with immersive 3D visuals.

ITS Festival Ground

The 2026 Gangnueng ITS World Congress brings the community together to create, experience, and enjoy the event. Discover ITS in an easy and engaging way, experience it firsthand, and enjoy the diverse local culture.

Date	October 19 (Mon)–23 (Fri), 2026 (5 days) (Mon, Thu) 10:00–20:00 / (Tue, Wed) 10:00–18:00 / (Fri) 10:00–14:00
Venue	Gangneung Olympic Park Plaza
Programs	Local Cultural Experience Programs, Performances, Food & Rest Areas, ITS Experience Booths, and more

K-Music Concert



Date & Time	October 23, 2026 (Fri), 18:00 - 19:30
Venue	In front of the Hockey Centre Auxiliary Rink
Description	To mark the 2026 Gangneung ITS World Congress and celebrate its successful conclusion, we present the K-Music Concert. The concert features performances by five artist groups, each with its own unique charm. It will bring together local residents and participants from Korea and around the world through music and shared experience.

Ice Show

ICE SHOW in 2026 Gangneung ITS World Congress

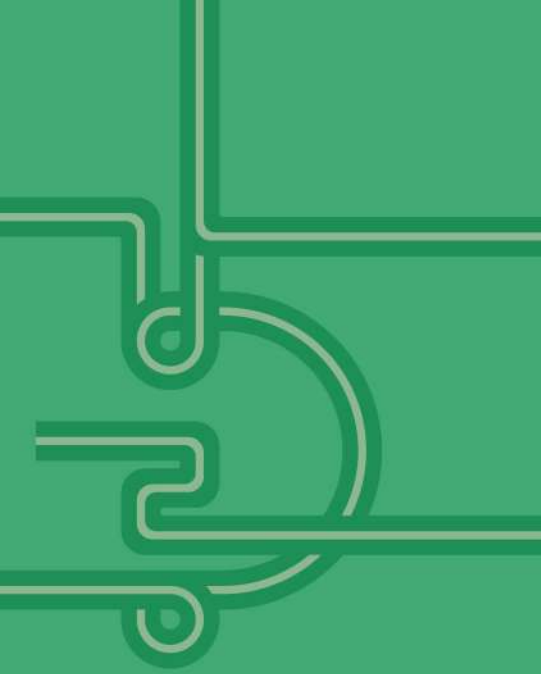


Join us for a spectacular 60-minute performance featuring Korea’s premier figure skating stars and performing artists. Experience an unforgettable showcase where graceful skating, cutting-edge technology, striking visuals, and captivating art meet. We look forward to celebrating the successful hosting of the ITS World Congress with you.

* Please wear your registration badge at all times. Seating is available on a first-come, first-served basis.
* Due to limited seating capacity, admission may close early.

Date & Time	October 22, 2026 (Thu), 19:00 – 20:00
Venue	Gangneung Hockey Centre, Gangneung Olympic Park
Running Time	60 minutes (No Intermission)
Age Rating	All Ages
Venue Admission	17:00 – 19:00
Opening	An Opening Performance Featuring the Message of the ITS World Congress
GALA SHOW 1	All I Ask of You (Si-hyeong Lee)
GALA SHOW 2	Die on This Hill (Jia Shin)
GALA SHOW 3	Training Season (Ah Sun Yun)
HARMONY COLLECTION 1	Dad, to His Daughter (Geun-woo Jeong & Su-bin Jeong)
FANTASY STAGE 1	G-SHOW RE:PLAY (Hyun Kim & Da-min Kim)
HARMONY COLLECTION 2	SPECIAL EVENT
FANTASY STAGE 2	Solo Leveling on ICE
GALA SHOW 4	Memories (Lee Jae-geun)
GALA SHOW 5	Five Nights at Freddy's (Lee Hae-in)
GALA SHOW 6	Cha Junhwan Solo Gala (Cha Junhwan)
GRAND FINALE	A Grand Finale with All Performers

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2026 GANGNEUNG
ITS WORLD CONGRESS

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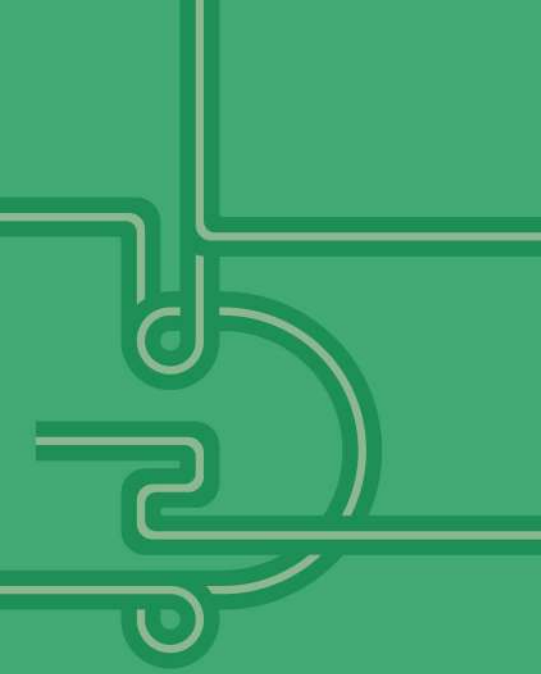
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Mr. Larry Dwyer	AASHTO	United States

Host City, Gangneung



2026 GANGNEUNG
ITS WORLD CONGRESS

Host City, Gangneung



A Leading Mobility City of Nature, Tradition, and Future Technology

Gangneung City, located on the east coast of South Korea, is a leading tourist destination renowned for its beautiful natural scenery and rich cultural heritage.

A historic and cultural city where the elegance of the past and the beauty of tradition coexist,

As a tourist city rich in outstanding historical and cultural assets, including the UNESCO World Heritage-listed Gangneung Danoje Festival and Ojukcheon — the birthplace of Shin Saimdang and Yulgok Yil Gangneung is a city where the beauty and traditions of both the past and present are alive. With its year-round appeal, the city attracts more than 35 million visitors annually.

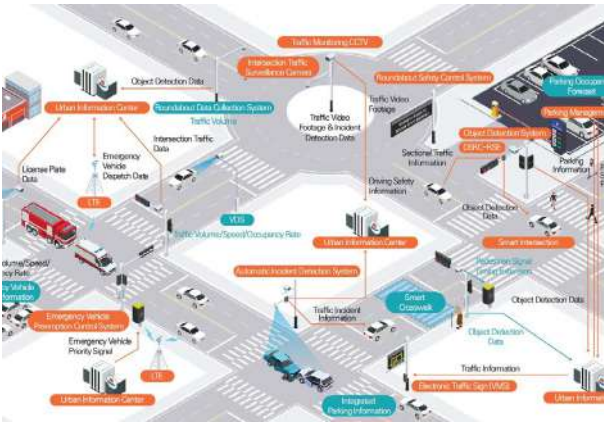
Despite challenges such as over-tourism, limited transport infrastructure, and various urban issues resulting from common problems faced by many mid-sized cities worldwide — including aging populations and demographic decline — Gangneung is overcoming these difficulties by establishing a smart city model based on Intelligent Transport Systems (ITS) technology.

Through the ITS World Congress, Gangneung City aims to discuss models and propose solutions for resolving transportation and urban challenges.

Drawing on our successful experience in hosting major international events such as the 2018 PyeongChang Winter Olympics and the 2024 Gangwon Winter Youth Olympics, we are proud to host another prestigious global event, the ITS World Congress and look forward to welcoming you with great hospitality.

Direction of Gangneung's Medium-Sized City ITS Services

During the 2026 Gangneung ITS World Congress, participants will be able to experience these ITS services throughout Gangneung—from arrival and transport to venues and tourist attractions—showcasing the city's comprehensive smart mobility environment.



Operation of ITS Services

- Collection and provision of basic traffic information, autonomous driving support systems, and pedestrian safety support systems
- Establishment of a new Urban Information Center to operate a future-oriented traffic control system

Gangneung Urban Information Center

- Opening of the Gangneung Urban Information Center (November 2024)
- Spanning 2,466m², the center functions as Gangneung's integrated smart city control tower, managing systems related to transportation, environment, public safety, disaster response, and autonomous driving. It will also serve as a key demonstration and visit site during the 2026 ITS World Congress.

Host City, Gangneung



Gangneung Anmok Beach is considered one of the most beautiful coffee streets nationwide. It holds a coffee festival in spring and fall and has a long coastal line, along which visitors can drive to look around many other tourist sites. In particular, some famous coffee shops present not only their own unique coffee aromas and tastes but also delicious desserts.

Gyeongpo Beach in Anhyeon-dong, Gangneung-si, Gangwon-do is one of the best beaches to visit in the summertime. There is saying, if you want to feel the youthful energy of Korea during the hot summer, go to Haeundae in Busan or Gyeongpodae in Gangneung. Many young people come to Gyeongpo Beach and as a result family visitors have spread to other beaches in Yangyang and Goseong. Gyeongpo is famous for being the longest coastal beach. Located 6km to the north of the city center and 1km from Gyeongpodae Pavilion, the beach shows off the clear waters of the East Sea along and shining sand.



Located along the Gangneung Coffee Healing Road, the **Nochusan Mojungtap Trail** is a well-known hiking course where a devoted elderly mother built stone pagodas on Nochusan Mountain while wishing for the well-being of her children. There is also an auto camping site nearby; to reach the trail, follow the path at the fork opposite the camping ground. The trekking course is approximately 1.2 km long, and it takes about 1–2 hours for a round trip. A “wish mailbox” is installed in the Mojung Stone Pagoda Park, symbolizing a mother’s love for her children. Visitors are encouraged to write letters expressing their wishes for their children’s success or heartfelt messages to their loved ones.

Jeongdong–Simgok Badabuchae-gil is a coastal terrace formation located along Jeongdongjin Beach. It is the largest coastal terrace in Korea and is exceptionally well preserved, earning designation as a national heritage site. A 3.01km coastal trail connecting Jeongdongjin to Simgok Port (along Heonhwa-ro) was opened in September 2016. Visitors can walk along the elevated coastal terrace and enjoy close-up views of the spectacular scenery created by waves crashing against the cliffs. The terraces appear at approximately every 10 meters up to an elevation of 160 meters, offering a chance to observe diverse coastal terrace formations.



The Gangneung Olympic Museum, a legacy of the 2018 Winter Olympics, serves to educate visitors and citizens about the Olympic spirit. It features various interactive facilities and exhibits Olympic memorabilia, providing a comprehensive insight into the history of the Olympics.

Gangneung Municipal Museum is located within Ojukheon, the birthplace of Master Yulgok Yi I and his mother, Shin Saimdang. The museum preserves their legacy and displays relics of Yulgok as well as artworks by Shin Saimdang and her family. In addition, the museum hosts a wide range of exhibitions, cultural education programs, and academic activities, establishing itself as one of Gangneung’s representative attractions as a city of traditional culture.



Arte Museum Gangneung is the third venue in the Arte Museum series, following those in Jeju and Yeosu. As a newly constructed building, it offers a more optimized spatial layout and a significantly larger exhibition area than its predecessors, enabling a more diverse and dynamic range of exhibitions. Developed by d’strict, the leading digital design company renowned for producing the internationally acclaimed public media art piece WAVE, the museum showcases world-class immersive content. It blends cutting-edge content creation capabilities with the unique cultural and artistic charm of Gangneung, offering visitors a truly memorable and moving experience.

The Heo Gyun and Heo Nanseolheon Memorial Park, located at Chodang-dong, Gangneung-si, is a literature park to commemorate the brother and sister; Heo Gyun, who wrote “Tale of Hong Gil-dong,” the first novel written in Korean language in the Joseon Dynasty, and Heo Nanseolheon, who is recognized as one of the best female writers then. It includes facilities including the Heo Gyun and Heo Nanseolheon Memorial Hall, the Traditional Tea Experience Center and a green park.



Host City, Gangneung



The Gangneung Jungang Market

The **Gangneung Jungang Market** located at Geumseong-ro, Gangneung-si represents the region's traditional market. Even before the time of Japanese Imperialism, it has been a permanently established market which is the main trading center for fish and crops in the Yeongdong region. The registered Jungang Market is a modern building with floors from Basement 1 to the second floor. Yet, citizens of Gangneung refer to shopping areas close to the market as the Gangneung Jungang Market.

Jumunjin Fish Market in Gangneung, Gangwon Province is famous for squid-fishing at the Jumunjin port which is a traditional market that has been established since 1936. Land area is 4,291㎡ * business floor space is 5,761㎡ * store floor space is 2,316㎡ * and includes a total of 70 stores. The Jumunjin Fish Market is a comprehensive market that includes a dried fish market, and sashimi center, etc. which provides a variety of stores that is known to be the largest fish market on the East coast including more domestic and overseas tourists.



Jumunjin Fish Market



Wolhwa Street (Night Market)

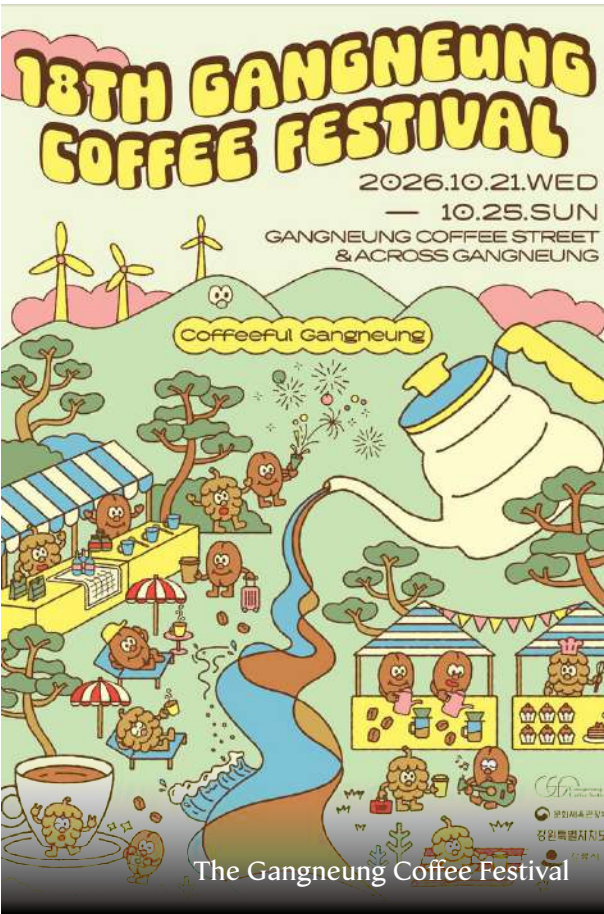
The **Wolhwa Street Night Market** in Gangneung comes alive in the evening. As the lights turn on, the atmosphere transforms, filling the street with energy through a vibrant mix of food, performances, and people. It is a place where tourists and locals come together, making it a perfect spot for an evening stroll in Gangneung. Operating from May to October each year, the night market offers a lively and diverse experience. During the event period, it will be held on Thursdays, Fridays, and Saturdays, providing visitors with an even more dynamic and memorable atmosphere.



The Gangneung Noodle Festival

The **Gangneung Noodle Festival** highlights the region's flavors, centered around Gangneung's unique noodle dishes. It is simple, approachable, and enjoyable for everyone. Eating, watching, and experiencing—everything flows naturally. It offers a close look into the everyday culture and lifestyle of Gangneung.

The **Gangneung Coffee Festival** is a celebration that begins in the everyday life of the city. The sea, coffee, and roastery culture come together in harmony. Beyond simply drinking coffee, visitors can experience a rich coffee culture. Along the beach and coffee streets, you can discover Gangneung's unique coffee identity. Perfect for a casual visit or a leisurely stay. It is the most Gangneung-like way to experience the city.



The Gangneung Coffee Festival

Host City, Gangneung

Traditional Ancestral Rites in Gangneung



Yulgok Yi Memorial Ceremony



Gangneung Obong Seowon Ritual



Neunghyangje, Ritual King of Myeongju

Gangneung is a city of traditional arts where the culture of ancestor rites has grown and is still practiced today. Among them, Gangneung Danoje Festival has been listed as a UNESCO Intangible Cultural Heritage, and there are sixteen rites held by a number of Hyanggyo and Seowon (Confucian academies and shrines), in addition to the Neunghyang Jerye Ritual for King Myeongju-gun of the Gangneung Kim Clan, Seokjeon Daeje Rite at Gangneung Hyanggyo Confucian School, Shin Saimdang Memorial Ceremony, and Yulgok Yi Memorial Ceremony. And ritual food evolved with ancestral rites.

Gangneung Danoje Festival



Making Dano Shin-ju



Dano Surichi Tteok



Dano Shin-ju

Danoje, a UNESCO Intangible Cultural Heritage, also features a food-sharing event among a variety of rituals and festivities. The libations and surichwitteok (Synurus cakes) used in the ritual are produced with rice collected from and shared with all Gangneung citizens to wish for the happiness of the community. Surichwitteok are rice cake slices created by crushing surichwi or mugwort and blending it with nonglutinous rice flour to make doughs, which are then molded to look like wagon wheels. A widespread belief in Gangneung is that if you do not consume surichwitteok and libations on Dano, you will not have a good year.

Traditional Food

Chodang Tofu



Tofu from the Chodang area in Gangneung is highly distinctive in Korean tofu cuisine. Chodang tofu is distinguished by its use of saltwater in its production. The story behind the origin of Chodang tofu is that an official who cherished the people of the Joseon Dynasty created food that residents could easily get by using soybeans. Chodang soft tofu and tofu are currently made and sold in around 20 locations in Chodang-dong, Gangneung. Chodang's tofu cuisine is evolving creatively to keep up with the time change. Jjamppong with soft tofu was created by combining it with spicy seafood noodle dishes from Gangneung, and "soft tofu gelato", an ice cream made with tofu, and "soft tofu coffee", a coffee drink made with tofu, are gaining popularity among young people these days.

Ongshimi (Matzo Ball Soup)



Potato Ongsimi is a popular Gangneung specialty food. When rice and grains were scarce and it was difficult to store food for an extended period of time, the people of Gangneung devised a recipe to extract starch from rotting or frozen potatoes. They made starch from potatoes and used the starch powder to make a variety of foods. Potato cakes, potato pancakes, and Ongshimi are typical dishes. Potato Ongshimi is a dish made by boiling anchovies, kelp, and potatoes in broth, then adding Ongshimi, which is formed from wet potato starch in round shapes and the size of a bird's egg, as well as buckwheat noodles or kalguksu.

JangKalguksu

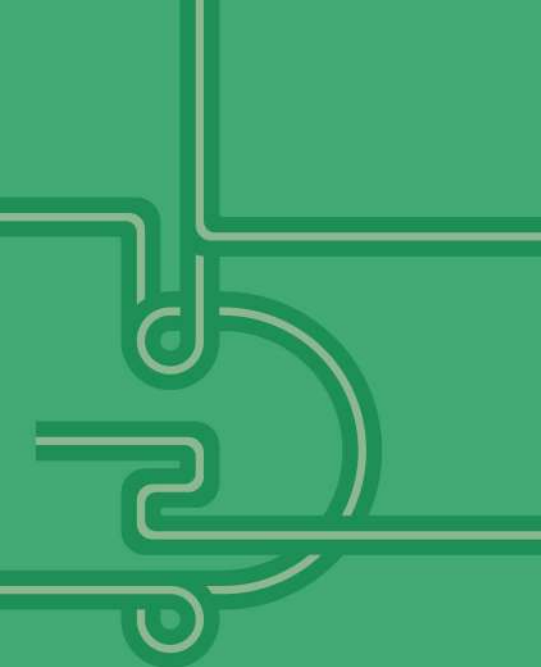


JangKalguksu is one of Gangneung's signature dishes. It is a slow food made from fermented soybean paste and red pepper paste, both of which are traditional Korean cuisines. The spiciness of the soup, which is based on soybean paste and slightly spiced with red pepper paste, is adjusted with red pepper powder. It is said that Jang Kalguksu was created by simmering Kalguksu seasoned with red pepper paste and soybean paste instead of salt in mountainous regions where salt was scarce. It is a creative dish that substitutes paste sauce for salt, which is unavailable due to its geographical location.

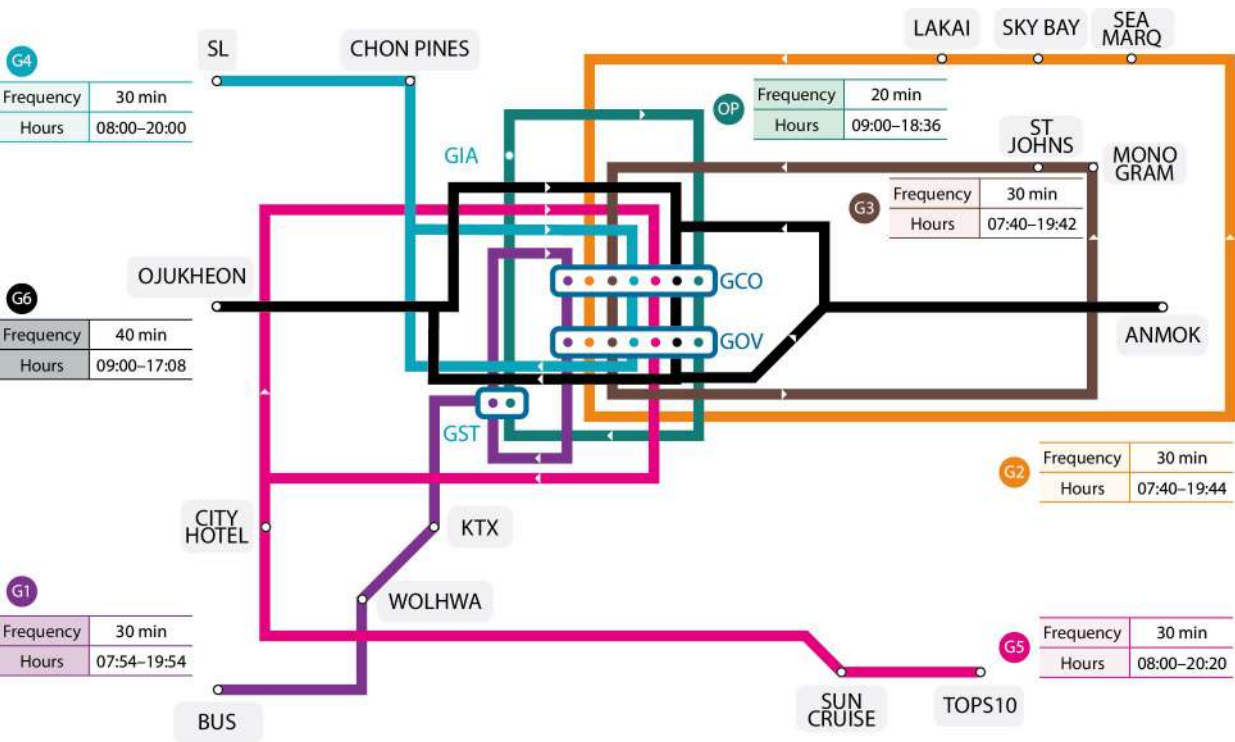
Climate & Weather

During autumn, from September to November, the average temperature in Gangneung ranges between 14°C and 20°C, offering clear skies and refreshing air. Light layers and a jacket are recommended, as mornings and evenings can be chilly, especially toward the end of October.

Useful Information



Shuttle Service



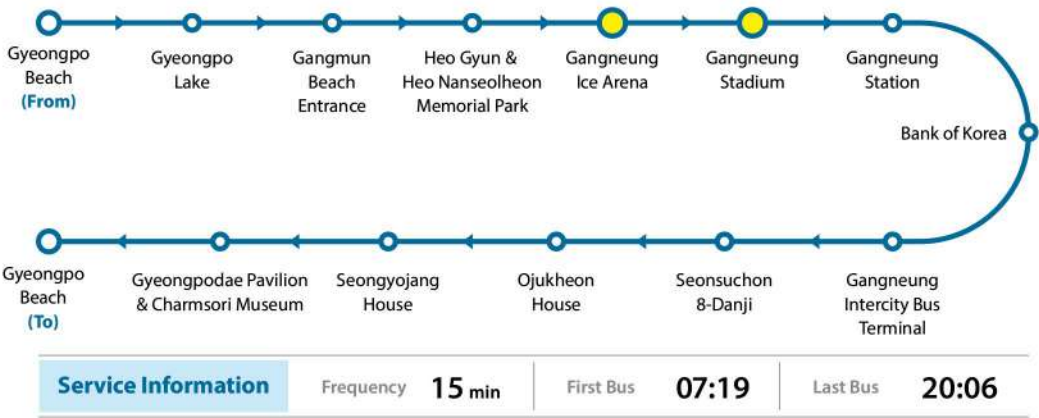
GCO	Gangneung Convention Center	MONO GRAM	Shilla Monogram Gangneung
GOV	Gangneung Oval (Exhibition)	ST JOHNS	St. John's Hotel
GST	Gangneung Stadium	CHON PINES	Chonpines Ocean Suites
GIA	Gangneung Ice Arena	SL	SL Hotel Gangneung
KTX	Gangneung Station	CITY HOTEL	Gangneung City Hotel
WOL HWA	Wolhwa Street	SUN CRUISE	Sun Cruise Resort
BUS	Gangneung Bus Terminal	TOPS10	Hotel Tops10
SEA MARQ	SEAMARQ Hotel	OJUKHEON	Ojukheon & Municipal Museum
SKY BAY	SkyBay Hotel Gyeongpo	ANMOK	Gangneung Anmok Coffee Street
LAKAI	Lakai Sandpine Resort		

Gangneung City Bus

Gangneung City Bus

202

Gyeongpo Beach (Loop) | Bus Stop



202-1

Gyeongpo Beach (Loop) | Bus Stop



Real-time Bus Information

Scan the QR code for all stops,
live bus locations and arrival times.

Gangneung Bus Information System bis.gn.go.kr



Korean



English

Transportation & Parking Map



- Parking Information**
- During the event, participants and visitors are requested to use the designated parking areas.
- Shuttle Bus Service**
- A shuttle bus will operate throughout Olympic Park during the event period.
- Taxi**
- Please use designated area for taxis.

Useful Information



2026 Gangneung ITS World Congress Official App

Explore the 2026 Gangneung ITS World Congress with ease using the official app. Access the full program, exhibition floor plan, and real-time shuttle bus information. You can also conveniently book taxis and KTX tickets through K-MaaS.



K-MaaS on the Official App

K-MaaS

K-MaaS is an integrated mobility service designed to help participants travel conveniently to Gangneung and get around the city during the 2026 Gangneung ITS World Congress. The service is linked to the official Congress app, allowing participants to access K-MaaS conveniently through the app. Search for the best route to your destination, book and pay for KTX(Korea Train Express) and intercity bus tickets, check express bus schedules, and request and pay for taxis in Gangneung—all in one place. With information on multiple transport options brought together in one service, K-MaaS makes every stage of your journey easier, from planning your trip to getting around Gangneung. The service is available in Korean and English for the convenience of international participants.



BY Taxi (K-RIDE)

K-Ride is a taxi-hailing app developed by Kakao Mobility specifically for international travelers in Korea. It offers a foreigner-friendly interface with multilingual support (including English, Japanese, and Chinese), real-time chat translation with drivers, and convenient payment options using global credit cards and e-wallets like Alipay+ and GCash. Users can register with Google, Apple, or a mobile number. Powered by Kakao Mobility's cutting edge technology, Korea's No.1 taxi service offers diverse vehicle options, swift dispatch, precise arrival estimates, and the most comfortable journey with optimal routes. It's an easy and reliable way for visitors to get around Korea by taxi.

Useful Information

K-ETA (Korea Electronic Travel Authorization)

K-ETA is a mandatory online pre-travel authorization required for travelers from visa-waiver countries. Applicants must submit their personal and travel details online and obtain approval before boarding a flight or vessel to Korea. Certain travelers, including holders of diplomatic or official passports, United Nations laissez-passer, and individuals aged 17 or younger or 65 or older on the date of entry, are exempt from this requirement. Nationals of designated countries and regions are also temporarily exempt from K-ETA through December 31, 2026 (KST).

For further information or to confirm your eligibility, please visit the official K-ETA website (www.k-eta.go.kr). As the review process generally takes up to 72 hours but may take longer, travelers are strongly advised to apply well in advance of their planned departure.

Electricity and Voltage

Korea uses 220V at 60 Hz, with power outlets that have two round holes. If you do not have a multi-voltage travel adapter, borrow or purchase one at your hotel's front desk, airports, retail stores, major duty-free shops, or even convenience stores.

Banking Hours

Banks are generally open from 09:00 to 16:00, Monday through Friday, and are closed on weekends and public holidays.

ATMs

ATMs are widely available throughout Korea, and many offer English-language instructions. However, not all ATMs accept foreign cards, so please look for machines marked "Global ATM" or those located at major banks or convenience stores.

VISA

All foreign nationals entering the Republic of Korea, must hold a passport with at least 6 months of remaining validity and, if required, obtain an entry visa prior to arrival. Those planning a short stay for purposes such as attending meetings or events are generally eligible for a short-term general visa (C-3). To avoid potential delays at immigration, strongly recommended to apply well in advance of travel. However, ordinary passport holders from visa-exempt countries may enter Korea without a visa under existing visa waiver agreements or based on the principles of reciprocity or national interest. For the most up-to-date information on visa waiver arrangements and entry requirements by nationality, please visit the Korean Visa Portal (www.visa.go.kr) and check the "Visa Navigator" section for visa eligibility.

Currency

The official currency of Korea is the Korean Won (KRW). Banknotes are available in 1,000, 5,000, 10,000, and 50,000 won denominations, while coins come in 10, 50, 100, and 500 won.

Emergency Service

Police 112
Fire Department 119
Medical Emergencies 119
Infectious Disease Emergencies 1339

Korea Travel Hotline

1330 Korea Travel Hotline
Tel: +82-2-1330 (Available in Korean, English, Japanese, Chinese, Russian, Vietnamese, Thai, and Indonesian)
Website: www.visitkorea.or.kr (Available in Korean, English, Japanese, Chinese (Simplified), Chinese (Traditional), French, Spanish, German, and Russian)



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 HYUNDAI

This content showcases a pre-production model with Korean specifications. Actual model or availability and application of specific features may vary by region and model. Official technical data and range of this model are pending final homologation.

Beyond Mobility Connected World