

Program

26-30 June 2023

Vienna

(Status June, 14 2023)



Welcome to the 4th International Symposium on Freeway and Tollway Operations!

From 26 – 30 June 2023, you will be able to interact with up to 400 experts, attend over 40 sessions, and participate in numerous side-events, such as technical tours! This program gives you an overview of when which event takes place and where.



TRACKS



Governance and Organizational Challenges



Managing and
Analyzing
Operational
Strategies and
Performance



Next Generation
of Traffic
Management
Systems and
Services



Innovative
Financing to
Build and
Operate
Motorways

Focusing on the future of traffic management means looking for solutions for a sustainable, safe and efficient transport system. The TRB ISFO 2023 addresses this goal in four tracks at different levels.

Track A will provide a substantial path planning for the mission of delivering "directionality" towards common goals for all relevant stakeholders in traffic management. Also the governmental roles need to be redefined and reconsidered, to face future challenges and force the necessary solutions.

Track B investigates the latest of operational strategies for managing freeways and toll roads. The session will discuss various management methods and conducts an analysis of the strategies and their performance. During this track, you will hear about the latest strategies and performance for managed motorway, management during emergency situations, post-covid management, digital twinning and the utilization of artificial intelligence for freeway and tollway operations.

Track C The next generation of an agencies traffic management systems (TMSs) and their operations centers (TMCs) offer the potential to improve safety and mobility. To achieve these goals, it is important to build and maintain the support and resources needed to enhance services, plan and pursue improvements, and develop a strategic direction and chart a path to prepare for the next generation of the agencies TMS. Opportunities continue to emerge for agencies to improve the capabilities and performance of their TMSs by taking advantage of new technologies, advances in telecommunications, and new and emerging sources of data generated from connected and automated vehicles (CAVs), travelers using connected devices, and service providers.

Track D will explore different approaches in project finance involving public or private partners, congestion pricing to promote reliability and efficient use of the transport system, distance-based pricing to address declining motor fuel tax revenue, safety considerations on priced roads, and how pricing and financing decisions contribute towards net zero emissions goals to meet the global climate imperative.



Monday, 26 June

08:00-09:00 Registration

Workshop 13: Urban Vehicle Access Regulations - a Key Tool for Future Traffic Management

UVAR - Urban vehicle access regulations as a dynamic tool and a key strategic element for urban transportation planning and management to tackle climate and transport challenges. This includes Low Emission Zones (LEZ), Congestion charging, Limited Traffic Zones (LTZ) Pedestrian Zones, and Parking Regulations. This workshop focuses on different implementation scenarios of UVAR pilots. First findings according to organizational, technical approaches as well as impacts on urban traffic management and environmental aspects will be discussed.

09:00-10:25

Room: 1.1

Moderator: Ju

Julia Düh from AustriaTech

Speakers:

Martin Böhm from AustriaTech

Kristina Andersson from RISE - Research Institutes of

Sweden

Coen Bresser from ERTICO

Ruud van den Dries from RDW (Nationaal Dataportaal

Wegverkeer)

Workshop 14: How to implement connected and automated logistic solutions into the overall traffic management

Connected, cooperative and automated Mobility (CCAM) is considered a game changer in the transport logistics. Efficiency and safety increases are expected, as well as a reduction in emissions and costs. This workshop will take stock of latest requirements and challenges related to CCAM deployment in transport logistics from both sides of the Atlantic. Stakeholder expectations, technology readiness, government readiness and deployment requirements will be discussed to provide a more nuanced, realistic implementation road map to bring innovation in real logistics operation.

09:00-10:25

Room: Auditorium

Moderator:

Aggelos Soteropoulos from AustriaTech

Speakers: Alexander Barth from DigiTrans GmbH

Konstantinos Mattas from European Commission Hany Hassan from Louisiana State University

Jacqueline Erhart from ASFINAG

Manabu Umeda from The University of Tokyo

Christoph Glauser from ArgYou AG

www.austriatech.at/isfo2023



Workshop 1: Setting a Strategic Direction for Agency Traffic Management Systems

The workshop will leverage the collective insights and experiences of participants to identify and explore successful practices, available resources, and issues that agencies should consider in relation to the following: Opportunities to plan for the next generation of Agencies TMSs, setting a strategic direction for TMS, and planning and plans to support TMS improvements.

09:00-12:00

Room: 1.2

Moderator: Jon Obenberger from Federal Highway

Administration, TRB ITS Committee

Speakers: Fanis Papadimitriou from Attica Tollway Operations

Authority

Gonzalo Alcaraz from International Road Federation

Geneva

Daniel Lukasik from Parsons Matthew Junak from HNTB Les Jacobson from WSP

Pete Marshall from HDR
Phil Masters from Parsons

Susanna Zammataro from International Road

Federation Geneva

David Graham from Gannett Fleming

Jianming Ma from Texas DOT

Workshop 3: Traffic Modeling and Impact Assessment

The management of transport is a continuing series of decisions that should be based on facts and predefined targets. This workshop will address a) the process of defining these KPIs (Key Performance Indicators) - with sustainability and especially CO2 reduction in mind - and b) the evaluation of the defined KPIs and the limits of this evaluation. The outcome of this session will be the latest developments in integrating sustainability into road traffic management.

10:35-12:00

Room: Auditorium

Moderator: Wolfgang Ponweiser from Austrian Institute of

Technology

Speakers: Tim Lomax from TrafficGuyTim, LLC

Tamara Djukic from ERTICO

Daniel Franco from Rupprecht Consult

Martin Fellendorf from TU Graz



Workshop 9: Using Connected and Automated Vehicle Messages to Manage Traffic on Freeways

This workshop will focus on the freeway applications of connected and automated vehicle (CAV) technologies. Representatives from academia, industry, and government will share the latest CAV technologies developments and its freeway applications. Among other topics, critical research needs and future research directions on the applications of CAV technologies in freeway management will be identified.

10:35-12:00 Moderator: David Noyce from University of Wisconsin-Madison

Speakers: Torgeir Vaa from Norwegian Public Road

Administration

Room: 1.1

Kaan Ozbay from New York University
Yafeng Ying from University of Michigan

Xiaopeng Li from University of Wisconsin-Madison Sisinnio Concas from University of South Florida

12:00-13:15 Lunchbreak

Workshop 2: Three Pillars of Transportation Systems Management and Operations in the United States

To serve the Transportation Systems Management and Operations (TSMO) community, three initiatives led by the American Association of State Highway and Transportation Officials have taken shape over the last decade. These three pillars are the National Operations Center of Excellence, the Regional Operations Leadership Forum and the Transportation Operations Manual. Attendees will share similar programs from around the world, provide feedback, and discuss collaboration opportunities.

13:15-16:15 Moderator: Scott Marler from Iowa Department of

Transportation (DOT)

Speakers: Joseph Sagal from Maryland Department of

Transportation

Blaine Leonard from Utah DOT Shanté Hastings from Delaware DOT

Brent Cain from Arizona DOT San Lee from Colorado DOT John Hibbard from Georgia DOT

Jim Sturdevant from Indiana DOT Salvatore Cowan from New Jersey DOT Jennifer Portanova from North Carolina DOT

Jianming Ma from Texas DOT

Daniela Bremmer from Washington State DOT Tracy Scriba from U.S. DOT Federal Highway

Administration

Room: 1.2



Room: Auditorium

Workshop 6: Ecosystems to Enable the Sharing of Electronic Messages and Data (C-ITS and more)

C-ITS service operation has started in Europe, pilot operation is reality in the US but it is still unclear if the current organizational structure is prepared for a permanent operation covering the whole transport infrastructure and all vehicles. Therefore, this workshop will especially focus on the ecosystems' needs for fully operational C-ITS service delivery. Additionally, there will be a focus on permanent operation of C-ITS services and specific technical and organizational management structures.

13:15-16:15 Moderator: Martin Böhm from AustriaTech
Speakers: Kathrin Hagemann from IAV

Susanne Schulz from Die Autobahn GmbH des Bundes

Jacqueline Erhart from ASFINAG Eric Rensel from Gannett Fleming

Kevin T. Miller from Southwest Research Institute

Workshop 12: Transportation Emergency Management during Significant Events

Transportation operators from around the world will assemble to share their experiences, challenges, successes, and shortcomings in emergency management in response to significant events. The focus will be on a realm of significant events that require extraordinary operations, regionally coordinated actions and decisions, clear communications among public agencies and private service providers, and effective customer information. Significant events refer to external factors that disrupt typical transportation system operations and safety, such as severe weather (e.g. hurricane), natural disasters (e.g. flooding) and planned events (e.g. Olympics).

13:15-16:15 Moderator: Alexander Chloupek from AustriaTech

Speakers: Matthias Friedrich from City of Vienna

Vlad Vorotovic from ERTICO

Fanis Papadimitriou from Attica Tollway Operations

Authority

Room: 1.1 Philip Masters from Parsons

Dan Baxter from Parsons

Steve Cyra from HNTB Corporation

Gonzalo Alcaraz from IRF International Road

Federation



Room: 1.1

Room: Auditorium

Workshop 16: Future Concepts for Managing and Operating the Surface Transportation System

According to the political objectives for climate protection at European level, the mobility system will change significantly by 2040. In addition to avoiding and shifting traffic, there will be a strong focus on improving transport and efficiency optimization of existing infrastructure. The focus of the workshop is to show and discuss the different implementations of the concepts in multiple EU countries, the US and the UK. Measures, which can improve traffic operations, implementation requirements, harmonize road design and legal requirements between different European countries regarding these measures will be discussed.

16:15-17:45 Moderator: Alexander Walcher from ASFINAG

Speakers: Akira Mitsuishi from East Nippon Expressway

Company Limited

Nicolas Moronval from APRR / AREA François Jeanjean from APRR / AREA

Martin Binder from ASFINAG

Martin Knopp from Federal Highway Administration

Workshop 8: Sharing Mobility Data for Traffic Management (Mobility Data Spaces and Platforms)

Mobility data is created by many sources, such as dedicated equipment installed specifically for data collection, or as a by-product of human mobility behavior via car sensors or mobile phone tracking. To achieve progress in traffic management, the accessibility of up-to-date and dynamic mobility data will provide an evidence based foundation for planning, managing, and prognosticating the mobility of humans and goods. This will form the cornerstone for political, strategic, and operational traffic management measures. The NAPCORE project has the objective of harmonizing the provision and accessibility of these data categories with the governmental interest in service provision.

16:15-17:45 Moderator: Damaris Anna Gruber from AustriaTech

Speakers: Tobias Schleser from ASFINAG

Matthew Juckes from Aimsun

Wolfgang Schildorfer from FH Oberösterreich Lucie Kirstein from acatech – National Academy of

Science and Engineering

Annet van Veenendaal from Nationaal Toegangspunt

Mobiliteitsdata

Kevin T. Miller from Southwest Research Institute

Timo Hoffmann from Bundesanstalt für

Straßenwesen

17:45 End



09:45-11:00

Room: Auditorium

Tuesday, 27 June

08:00-09:00 Registration

Plenary Session 1: Opening

09:00-09:45 Moderator: Martin Russ from AustriaTech

Speakers: Beverly Kuhn from TRB Freeway Operations Committee

Bill Halkias from Hellenic Association of Toll Roads

Network

Room: Auditorium

Henriette Spyra from Austrian Federal Ministry for Climate

Action, Environment, Energy, Mobility, Innovation &

Technology

Hartwig Hufnagl from ASFINAG

Wolfgang Hribernik from Austrian Institute of Technology

Plenary Session 2: Visioning Traffic Management's Future

Moderator: Susanna Zammataro from International Road Federation

Geneva

Speakers: Scott Marler from AASHTO

Holger Erhardt from Yunex Traffic Christoph Stögerer from SWARCO AG

Anouar Benazzouz from Moroccan Highways

Mike Evans from ARUP

11:00-11:30 Break

Session 1A: Collaboration and Added Value in Traffic Management

Traffic Management is now, more than ever, recognized to be the key to not only the fluidity of traffic but is also seen as the backbone for an efficient transport system. There is a common understanding that traffic cannot be managed by one actor alone but it is rather a matter of cooperation and understanding among stakeholders at strategic, operational and tactical levels. The priorities for managing traffic are to be set by the orchestrator and while this role should be reserved for the public authorities, a number of other stakeholders should also become aligned and support the targets set for the common good. The collaboration between the public and the private sector in managing traffic is set to provide added value for users, operators and the network as a whole. This Session will feature a panel of public and private actors who are already cooperating with stakeholders from a number of sectors towards deploying interactive traffic management based on the principles of co-opetition and trust (based on the TM 2.0 concept). The panelists will share their experience and lessons learned along with the challenges faced in deploying interactive traffic management.

11:30-13:00 Moderator: Martin Böhm from AustriaTech

Room: City Speakers: Susanne Schulz from Die Autobahn GmbH des Bundes

Christopher Hochmuth from HERE Technologies

Track A Tobias Schleser from ASFINAG

John Hibbard from Georgia Department of Transportation



Session 1B: Latest Advances/Emerging Technologies used for Managed Motorways

Managed motorways, also referred to as active traffic management (ATM) in certain geographies, is the concept managing traffic in a more "proactive" manner. This includes deployment of strategies such as variable speed limits, part-time shoulder use, dynamic lane assignment, queue warning, adaptive ramp metering, and reversible lanes among others. During this session you will hear from presenters that are implementing managed motorways/ATM using more advanced technologies and data sources.

11:30-13:00 Moderator: Phil Masters from Parsons Corporation

Room: Auditorium Speakers: Konstantinos Papandreou from Olympia Odos Operation

SA

Justin Geistefeldt from Bochum University
Salvatore Cowan from New Jersey DOT

Track B Holger Erhardt from Yunex Traffic

Fernando Ribeiro from Lindsay Smita Sharma from Lindsay

Session 1C: Assessing the Capabilities and Performance of Traffic Management Systems

This session will explore how essential it is to have information about the capabilities and performance to act on or incorporate efforts to enhance a traffic management system (TMS) into agency programs, plans, or allocation of resources. Takeaways from this session will include: issues to consider from assessments of TMSs into the planning, programming, and allocating of resources to improve the capabilities and performance of TMSs.

11:30-13:00 Moderator: Pete Marshall from HDR

Room: 1.2 Speakers: Menno Malta from Monotch

Sigrid Pirkelbauer from Bundesamt für Straßen ASSTRA

Track C Fabrizio Paoletti from Autostrade per l'Italia – DIDT/BDO

Brent Cain from Arizona Department of Transportation

Session 1D: Traditional Public Transportation Finance vs. Concession Models

This session will explore the differences and benefits of financing transportation infrastructure projects and funding operations and maintenance through traditional public financial models versus the approach of engaging a private concession company to design, construct, operate and maintain transportation facilities. Takeaways from this session will include: tax policy and public acceptance factors; the role of business and policy objectives in shaping the preferred approach; considerations of risk tolerance and assignment of risks. Should Concession contracts be flexible to allow for integration of technological advancements?

Moderator: Bill Halkias from Hellenic Association of Toll Roads

Network

Room: 1.1 Speakers: Tim Hartwig from Hochtief PPP Solutions

Morteza Farajian from USDOT Build America Bureau Nikolaos Gavrilis from Globalis Insurance Agents

Track D Cherian George from CG Infracap Strategies, LLC

Cathal Masterson from Transport Infrastructure Ireland

13:00-14:15 Lunchbreak



Kapsch TrafficCom: Sustainable Mobility Management for a Digitalized Road

The connected mobility ecosystem is changing how agencies manage and operate their transportation systems and enabling people to make smarter travel choices. This panel discussion will focus on emerging best practices and how to implement innovative technologies for making mobility safe, efficient, equitable, accessible and sustainable.

14:00-15:30 Moderator: Jeff Adler from Kapsch TrafficCom

Speakers: Bill Halkias from Hellenic Association of Toll Roads

Network

Room: City Estibaliz Baranano from Kapsch TrafficCom

Justin Hamilton from Kapsch TrafficCom Nina Elter from NEWROAD Consulting Christoph Glauser from ArgYou AG

Session 2A: Fullfilling Promises and Meeting User and Operator Needs

There is a multiplicity of specific demands in deploying traffic management, which make its balanced operation a challenging endeavor. Users demand a safe and efficient journey while operators wish to achieve balance in the system. The individual optimal may sometimes be misaligned with what is good for the public. For instance, a parent will wish to drop off his kids at the entrance of the school where safety is guaranteed in terms of other vehicles speeding on the same road, or a delivery truck may find it more convenient to enter the city center just before the morning opening hours. At the same time, the public authority managing traffic, has to ensure that geofencing the area in both of these cases prioritizes on safety and as a result neither the parent can enter the school zone by car not the delivery truck can follow an itinerary that routes it via the city center at this morning peak traffic hour. The promise of efficient traffic does not answer all demands at equal level and what is more, other modes of transport should also enter the picture contributing towards the balance of the mobility system in the area. This Session will feature panelists from the sector of Service providers and public authorities, who will share their experience is routing travelers through traffic and who abide to a variety of public authority set rules and demands in doing so. What does geofencing mean for them as operators and how do public authorities assign access limitations to areas within the mobility network. Both the challenges and also the benefits from synergies of action between the private and the public sector will be addressed in the Session discussion.

Moderator: Luca Studer from Politecnico di Milano

Speakers: Manfred Harrer from ASFINAG
Kristina Vuletic from TomTom

Tomi Laine from Traficon Ltd

Track A Daniela Bremmer from Washington Department of

Transportation

Martin Pichl from Czech Ministry of Transportation

14:15-15:45 Room: 1.2



Track B

Room: Auditorium

Track C

Room: 1.3

Track D

Session 2B: Traffic Operations During Emergency and Severe Weather Events

Many agencies have faced challenges with emergency and severe weather events. This includes hurricanes, severe snowstorms, earthquakes, major hazmat spills, evacuation scenarios, etc. This session will be to discuss how freeway/tollway agencies manage/operate during these critical situations. You will hear about very specific emergency and weather events and the actions and systems that public agencies implemented to respond.

14:15-15:45 Moderator: Jianming Ma from Texas DOT

Room: 1.1 Speakers: Dimitris Mandalozis from Aegian Motorways

Fanis Papadimitriou from Attikes Diadromes S.A. ("Attiki

Odos" - Attica Tollway Operations Authority)

Torgeir Vaa from Norwegian Public Road Administration
Jennifer Portanova from North Carolina Department of

Transportation

Christos Karadimas from Olympia Odos Operation SA

Session 2C: Planning for the Next Generation of Traffic Management Systems

This session will consider the value of planning efforts to identify the capabilities (e.g., functions, actions, and services), enhancements, and resources needed to improve the performance of traffic management systems (TMSs). Takeaways from this session will include: issues agencies may consider when planning for improvements or preparing a strategic plan to chart the future direction, goals, capabilities, and evolution of a TMS.

14:15-15:45 Moderator: Jon Obenberger from Federal Highway Administration

Speakers: Patrick Hofman from Gemeente Helmond

Joey Sagal from Maryland Department of Transportation

Ahmad Jawad from D2 Traffic Technologies

Blaine Leonard from Utah DOT

Session 2D: Congestion Pricing: Global Experiences on Traffic, Revenue, Investment, and Operations

This session will explore the experience of congestion pricing programs across the globe and their outcomes for traffic management, revenue generation, operational impacts, and revenue investment. Takeaways from this session will include: experience in congestion reduction; use of revenue to improve public transport; ability to sustain financial goals; evidence of improved system performance; cost to operate the system; policy goals (i.e., safety benefits, air quality improvements, etc.).

Moderator: Andrew Fremier from Bay Area Toll Authoritty /

Metropolitan Transportation Commission
Nick Wood from Texas A&M University

Tracy Scriba from Federal Highway Adminstration

Corinna Kossert from VITRONIC

Roberto Carrasco from Cintra

Hannah van Amelsfort from Goudappel

15:45-16:15 Break

Speakers:



SWARCO: Preparing and Classifying the Road Infrastructure in terms of its Suitability for Automated Driving

The SWARCO workshop at the TRB ISFO conference in Vienna 2023 offers an unique platform for experts and stakeholders to delve into the crucial topic of preparing and classifying road infrastructure for the seamless integration of automated driving technologies. With a focus on the classification of infrastructure supporting wide-scale deployment of solutions, this workshop brings together thought leaders, industry pioneers, and policymakers to explore the challenges and opportunities associated with the transformation of road networks. Through engaging keynote speeches, collaborative working sessions, and insightful discussions, participants will navigate the intricacies of infrastructure readiness, data management, safety considerations, and policy frameworks, aiming to shape a future where automated driving thrives within a harmoniously adapted road infrastructure. This workshop promises to inspire innovative approaches, foster knowledge exchange, and establish potential pathways for follow-up actions, all aimed at revolutionizing transportation systems and paving the way towards a safer and more efficient era of automated driving. If you are interested in participating, we kindly ask you to pre-register by sending an e-mail to richard.neumann@swarco.com so that we can better calculate the number of participants.

15:45-17:45

Room: City

Moderator:

Gonzalo Alcaraz from International Road Federation,

Geneva

Speakers:

Bin Ran from University of Wisconsin at Madison

Harald Mosböck from SWARCO AG Steve Penn from SWARCO AG

Workshop 4: Integrated Mobility Management

Traffic Management must evolve into Automated Mobility Management. This is the shift from the management of volumes of vehicles to the management of the travelers and goods. The management task is to combine the need of going from A to B by certain constraints (arrival time ...) and preferences (price, travel time, comfort, safety...) with the capacity available and with a global optimization approach. This becomes even more complex if the whole, multi-modal, automated and multi-actor mobility offer is taken into account.

16:15-17:45 Room: 1.3 Moderator:

Stefan Seer from Austrian Institute of Technology

Speakers:

Johanna Tzanidaki from ERTICO

Track A Sabine Küschelm from CEDR

Tamara Djukic from ERTICO

Session 3B: Post COVID Safety Management

Despite greatly reduced traffic volumes in a post-covid world, accidents and fatalities have increased, which includes average vehicle speed increases and increases in driver distraction. This panel will investigate this issue and which policies, strategies and technologies that can and have been applied to address these issues. Included in this discussion are methods that agencies can deploy in future similar situations.

16:15-17:45 Room: 1.1

Moderator:

Panos Prevedouros from University of Hawaii

Speakers: Claire Depre from European Commission

Carol Kuester from MTC - Metropolitan Transportation

Commission

Track B

Hatun Atasayar from Kuratorium für Verkehrssicherheit

San Lee from Colorado DOT

Preston Judkins from Parsons Corporation



Session 3C: Collecting and Using Connected and Automated Vehicle Data to Manage Traffic

This session will explore the potential collecting, using, and sharing electronic messages with connected and automated vehicles (CAVs) may offer public agencies. Takeaways from this session will include: possible actions to enable traffic management systems sharing and using electronic messages (e.g., advisory, warning, regulatory) with CAVs in support of with using different operational strategies (e.g., ramp metering) to improve safety and mobility.

16:15-17:45

Moderator:

Shanté Hastings from Delaware Department of

Transportation

Room: Auditorium

Track C

Speakers: Zuxuan Deng

Zuxuan Deng from Transportation Research Board, National Cooperative Highway Research Program

Kaan Ozbay from New York University

Markus Sihvonen from HAMK University of applied

sciences

Blaine Leonard from Utah DOT

Session 3D: Distance-based Road Charging: A Solution for Declining Motor Fuel Tax Revenues?

This session will explore the declining financial contributions of motor fuel taxes with vehicle designs becoming more efficient and the growing transition to alternative fuels. Does the prospect of distance-based road-user charging fill the void and achieve transportation system objectives? Takeaways from this session will include: technological readiness, administrative costs, privacy, scalability, adapting to innovation and new technologies. The session will also touch upon implications for emissions, congestion mitigation, safety for motorists and vulnerable road users, etc.

16:15-17:45

Moderator:

Susanna Zammataro from International Road Federation

Geneva

Room: 1.2

Speakers:

Ansgar Kauf, Senior Expert for Innovative Mobility

(economy, private participation & networks)

Nina Elter from New Road Consulting

Lauren Prehoda from California Department of

Track D Transportation

Gerd Nees from Be Mobile

Norbert Schindler from GNSS Consulting

17:45 End



Wednesday, 28 June

08:00-08:30 Registration

Workshop 5: Section Management - Efficient use of scarce infrastructure

Within the framework of this workshop, we want to discuss the technical feasibility of "Section or slot management" in road (freight) transport. There are only a few real "slot management" systems on street side. In most cases, these are inflow controls for parking lots, terminals, borders, construction site or ports. On other transport modes is section management standard. For example on railway (block spacing and train path allocation), in aviation (airway management) and tunnels (block handling). Furthermore, in Europe, there is the "Rollende Landstraße", semi-trailers are transported by train over longer distances - in Austria, for example, over the Alps, here the transporter has to reserve a "ticket" for his transport lot on the train. Another use case is traveling to and from tourist hotspots. We will discuss the technology on road (sensors, display panel, possibilities of using toll data etc.) or on the vehicle (position data, OBU) and possible booking and management options (mobile phone, internet, etc.) as well as infrastructure measures (preliminary parking lots, waiting areas). Another important aspect is the legal framework for "section management" (intervention in the free movement of goods in Europe, enforcement options) and the information deployment to the driver.

08:30-10:00 Moderator: Alexander Chloupek from AustriaTech

Room: 1.1 Speakers: Madis Sassiad from GoSwift

Markus Racz from Yunex Traffic

Track A Vlad Vorotovic from ERTICO

Workshop 11: Benefits and Challenges for Integrating Fleet Operations and Traffic Management

Currently, traffic management and fleet management decisions are made independent of each other – on strategic as well as on operational level. The future will head towards an integrated, cooperative approach where decisions in one field directly influence decisions in the other one (and vice versa). The goal of this workshop is to identify relevant stakeholders and branches and their possible interplay with traffic management. Furthermore, possible scenarios of integrated fleet and traffic management scenarios will be discussed.

08:30-10:00 Moderator: tbd

Room: 1.2 Speakers: Christoph Glauser from ArgYou AG

Track B



Track C

Session 4C: Using New Sources of Data to Improve Traffic Management

This session will highlight the potential with using data from intelligent transportation systems, connected travelers, connected and automated vehicles, and third-party suppliers to enhance the management and operation of Traffic Management Systems (TMSs). Takeaways from this session will include: issues, challenges (e.g., proprietary data, data formats), policies, technologies (e.g., Application Programming Interfaces (APIs), data bases, software), and methods to allow TMSs to receive, process, archive, and use data from these sources.

08:30-10:00 Moderator: Gonzalo Alcaraz from IRF-Geneva
Room: Auditorium Speakers: Nick Cohn, independent consultant

Manfred Harrer from ASFINAG Jeroen Brouwer from TomTom

Jim Sturdevant from Indiana Department of

Transportation

Session 5D: The Climate Imperative: Pricing and Finance Contributions toward Net Zero Transportation Goals

This session will consider how transportation pricing and finance decisions can contribute to net zero transportation operations. How user-payment principles can help lead the move from traditional roadways and facilities to sustainable mobility services. Takeaways from this session will include: the role of data and performance metrics in shaping program development and project priorities; pricing implications for managing indirect emissions; challenges of working with operations; risk assignment, analyses, and vulnerability assessments; cost of project finance; using asset management and for continuous improvement; the role of technology (electric vehicle charging infrastructure, autonomous vehicles, alternative fuels, etc.)

08:30-10:00 Moderator: Emanuela Stocchi from Italian Concessionaires

Association

Room: City Speakers: Malika Seddi from ASECAP

Tram Vo from MOBI

Track D Miguel Melchor Garcia from Emovis/Abertis

Bernd Datler from ASFINAG

Special Session: Coffee with an expert

Students and young professionals get the chance to talk to international academic and industry experts.

08:30-10:00 Room: 1.3

10:00-10:30 Break



Plenary Session 3: Improving the Value Proposition for Traffic Management & Student Award

Ceremony

10:30-12:15 Moderator: Valentina Galasso from PIARC's Technical Committee on

Road Network Operations/ITS, Deloitte Consulting

Speakers: Angelos Amditis from ERTICO

Andrew Fremier from Bay Area Transportation Authority,

IBTTA

Room: Auditorium Georg Kapsch from Kapsch TrafficCom

Tiffany Vlemmings from DG MOVE

John Hibbard from Georgia Department of

Transportation

12:15-13:30 Lunchbreak

Workshop 17: Traffic Management and Climate Neutrality

Integrating climate neutrality and traffic management has emerged as a solution supporting cities' environmental targets. With regards to mobility, high priority is placed on decarbonizing transport. The mobility industry is taking actions, not only with regards to the vehicle but also with a view on how the entire mobility system operations can support the final target of The Paris Agreement. The workshop will discuss the topics of climate targets integration in traffic management (planning and operations) as well as some of the measures and solutions on the market.

13:30-15:00 Moderator: Johanna Tzanidaki from ERTICO
Room: City Jop Spoelstra from Technolution
Track A Tamara Djukic from ERTICO

Session 5B: Use of Artificial Intelligence for Freeway and Tollway Operations

Artificial Intelligence (AI), including basic AI, machine learning (ML) and deep learning are in common use today throughout our world, this includes within transportation, e.g. autonomous driving vehicles and cell phone navigation applications. This session will explore how Artificial Intelligence technology has or can be used to improve freeway and tollway operations systems. This includes the use of cloud-based AI tools, predictive AI algorithms, machine vision, video analytics, and event prediction.

13:30-15:00 Moderator: Alex Skabardonis from University of California Berkley

Room: Auditorium Speakers: Ran Katzir from Valerann

Yinhai Wang from University of Washington

Track B Jeffrey Adler from Kapsch TrafficCom Gregor Schuh from EFS Consulting

Sascha Westermann from Fujitsu



Room: 1.3

Session 5C: Managing Traffic Management System Assets and Resources

This session will explore the value and opportunities to use asset condition information to improve how agencies manage and operate traffic management systems (TMSs). Takeaways from this session will include: how the condition of TMS assets support agencies priorities (e.g., maintenance, repair, or replace devices), allocation of resources, day-to-day activities, planning for TMS improvements, or ultimate replacement of the system.

13:30-15:00 Moderator: San Lee from Colorado DOT Room: 1.1 Speakers: Daniel Lukasik from Parsons

David Graham from Gannett Fleming

Track C Steve Penn from SWARCO AG

Anna Huditz from Austrian Institute of Technology

Session 4D: Tolled Motorways and Safety

The overall worldwide goals promoted by the United Nations and European Commission is to reach a vision zero roadway incident fatalities. This session will consider whether there are discernible differences in the safety between tolled motorways and roadways without tolls, and whether differences are due to the money available for safety investments or attention to managing operations actively. Takeaways from this session will include the role of: maintenance and asset management systems; communication campaigns to targeted audiences (e.g., old vs young driver behavior); government policies for traveler behavior (seatbelt laws, speed enforcement, anti-texting and distracted driving, helmet laws for vulnerable road users, etc.).; operating strategies (i.e., active traffic management, ITS, service patrols, vision zero principles); connected vehicle technology (lane keeping, emergency braking, collision avoidance, vehicle black boxes).

13:30-15:00 Moderator: Patrick Jones from IBTTA

Speakers: Gerhard Menzel from Austrian Federal Ministry for

Climate Action, Environment, Energy, Mobility,

Innovation and Technology

Vassiliki Mylona from Road Safety Institute (RSI Panos

Mylonas)

Track D Angelos Bekiaris from Hellenic Institute of Transport

Robert Frey from Tampa Hillsborough Expressway

Auhtority

Darren Henderson from GHD, Inc.



Workshop 18: Managing Traffic for Planned Special Events

Planned special events influence economies, tourism, and community identity. Planned special events pose a unique and diverse set of challenges in maintaining transportation system safety, mobility, and reliability across interconnected streets, arterials, and freeways/tollways. Challenges include managing intense travel demand, mitigating capacity constraints, influencing travel choices, and accommodating parking demand and pedestrian flow. This session particularly focuses on reviewing proven strategies and presents the state-of-the-art in managing travel for planned special events. It opens by spotlighting leading resources to consult in planning for impacts and developing and executing action plans for effective transportation system operations.

13:30-15:00

Moderator: Faisal Saleem from National Operations Center of

Excellence, AASHTO

Speakers:

Steve Latoski from Mohave County (Arizona) Public

Works

Room: 1.2

Walt Dunn from Dunn Engineering Associates, P.C.

Tim Lomax from TrafficGuyTim, LLC Gino Franco from SWARCO AG

15:00-15:15 Break

Session 3A: Innovative Methods for Sharing Data

Data sharing is key to enhanced traffic management. No one set of data and no one source of data can be solely used for the traffic management stakeholders to be able to have the full picture of what is really happening on the network. The NAPCORE Community in Europe is working under a dedicated EU funding line in order to coordinate and harmonize the structure of National Access Points (NAPs) in the EU, though which multiple sets of data from multiple sources can be accessed by any interested stakeholder. This is the largest cooperation scheme of mobility data platforms in the world and it is led by National Ministries for Transport in Europe. At the same time, the private sector is being requested to provide and make use of data offered in the NAPs while adjusting its business models accordingly. Can this be feasible when data quality is not defined? How can the private sector share data with NAPs without losing its competitive advantage? What are the lessons learned in Europe and what is the system in the US? Are all data sets to be treated in the same manner or are some data sets more important/shareable than others? This Session will discuss the experience and best practice from different countries, the potential for complementarity in activities that the various data sets offer and the potential that data offers for further innovation. The panel will feature both private and public stakeholders in traffic management who are currently very much involved in these discussions at a global level.

15:15-16:45

Moderator: Timo Hoffmann from NAPCORE/German Federal Highway

Research Insitute

Room: 1.1

Speakers: Pedro Barradas from ARMIS Group/ITS Portugal

Christian Kleine from HERE Technologies Jonas Matthias from Graphmaster GmbH John Hibbard from Georgia Department of

Transportation

Gino Franco from SWARCO AG

Track A



Room: City

Session 4B: Digital Twinning for the Future of Freeway and Tolling Operations

Digital Twinning is a process in which a physical object, system or a being is recreated on a virtual interface. A fully developed digital duplicate is constructed in order for it to be used for future testing, development, and experimentation. Simply put, it is a digital replica. This session will explore the possibilities for freeway and tollway design and operations to take advantage of digital twinning.

15:15-16:45 Moderator: Steve Phillips from Conference of European Directors of

Roads

Room: Auditorium Speakers: Kevin O'Connor from Parsons Corporation

Gerhard Greiner from ALP.Lab GmbH

Track B Matt Juckes from Aimsun

Yinhai Wang from University of Washington

Workshop 7: Intelligent Asset Management: Information-driven, integrated and sustainable towards the Future of Managing Traffic

Knowing your assets in depth is the foundation for managing and analyzing operational strategies and performance of traffic infrastructure. Choosing the right combination of data, sensors and tools is paving the way for an information-driven and integrated Asset Management that supports sustainable decision-making. For each one of the three pillars, key notes with practical examples will set the scene for the following panel discussion.

15:15-16:45 Moderator: Sandra Ulrich & Christian Honeger from ASFINAG

Speakers: Roland Spielhofer from Austrian Institute of Technology

Christoph Antony from ASFINAG

Track C Steven Latoski from Mohave County Public Works

Wolfgang Schildorfer from Logistikum FH Steyr

Workshop 15: Hubs for Transit Ride Sharing

In this interactive session we focus on inclusion with locally fine-tuned efficient multi-modal hub architectures and traffic management in a period of dynamically emerging new forms of mobility and sustainable transport modes. For some national authorities technology is instrumental for governing mobility and transport in heterogeneous environments. Not only economic efficiency and quality of service need to be considered when preparing innovative operational models but also environmental concerns and inclusion. The key research question is how stakeholders can proactively prepare locally fine-tuned efficient multi-modal hub architectures in a period of dynamically emerging new forms of mobility and sustainable transport modes.

15:15-16:45 Moderator: Marko Jandrisits from ASFINAG
Room: 1.2 Speakers: David Kollenhofer from ASFINAG

Matthias Neubauer from University of Applied Sciences

Upper Austria

Track D Martin Nemec from ASFINAG

Jürgen Strauss from ÖBB

Special Session: Coffee with an expert

Students and young professionals get the chance to talk to international academic and industry experts.

15:15-16:45 Room: 1.3

16:45-17:00 Break



Room: Auditorium

Plenary Session 4: Improving Traffic Management - Collaboration and Research Opportunities

17:00-18:30 Moderator: Stefan Seer from Austrian Institute of Technology

Speakers Johanna Tzanidaki from ERTICO

Marjolein Masclee from RWS (Dutch Ministry) Jennifer Portanova from North Carolina DOT

Jop Spoelstra from Technolution

Patrick Jones from IBTTA

Jon Obenberger from Federal Highway Administration,

TRB ITS Committee

Wolfgang Ponweiser from ECTRI

18:30 End



Student Paper Award

During the Plenary Session 3 on Wednesday, 28 June 10:30-12:15 three students who proved themselves against their numerous peers in the Student Paper Competition will present their papers. The first place went to **Xuerun Yan from the Tongji University in China** with his work "A Simulation Platform for Truck Platooning Evaluation with Interactive Traffic Consideration". **Chintaman Bari from the Sardar Vallabhbhai National Institute of Technology in India** addressed the "Establishment of Warrants for Electronic Toll Collection Lane Operations in India" and achieved the second place. Junlan Chen from the **Monash University in Australia** reached the third place with his paper "A Generative Deep Learning Approach for Highway Crash Severity Modeling with Imbalanced Data".

Poster Sessions

From Tuesday to Wednesday (27–28 June), you will also find posters in the foyer that have been submitted by individuals that want to provide an additional input to our four tracks. During lunchbreaks, those who are interested can participate in discussions with the respective authors of the posters. **Following posters have been submitted and accepted:**

The Smart 25 Managed Motorways Pilot Project – A Successful Demonstration of the Next			
Generation of Traffic Management Systems			
Author	Darren Henderson from GHD		
Machine Vision for Roadway Maintenance			
Author	Sofia Clark from Blyncsy		
Safety Aware Predictive Control Neural Network for Connected Automated Vehicle Operations			
Authors	Handong Yao from Harbin Institute of Technology at Weihai		
Authors	Qianwen Li from University of South Florida		
Trajectory Predi	ction Dimensionality Reduction for Low-Cost Connected Automated Vehicle		
	Systems		
Authors	Handong Yao from Harbin Institute of Technology at Weihai		
Authors	Qianwen Li from University of South Florida		
The use of disparate data sources deep fusion for optimal and accurate real-time situation			
	awareness in road traffic monitoring and management		
Authors	Tsz Hei Choi from Valerann		
Authors	Ran Katzir from Valerann		
Setting an Intellig	gent Decision Support System for Agency Traffic and Operation Management		
Authors	Sisinnio Concas from Center for Urban Transportation Research		
	Robert Frey from Tampa Hillsborough Expressway Authority		
	Anna Quinones from Tampa Hillsborough Expressway Authority		
	Stephen Novosad from Tampa Hillsborough Expressway Authority		
	Steve Cyra from Tampa Hillsborough Expressway Authority		



All you need is data: the added value of National Access Points as backbone European ITS data			
	exchange infrastructures		
	Evangelos Mitsakis from CERTH-HIT		
Authors	Chrysostoms Mylonas from CERTH-HIT		
	Maria Stavara from CERTH-HIT		
Real-time Automa	ation of Winter Road Surface Conditions Recognitions using Deep Learning and		
	Road Weather Information Systems		
Authors	Tae J. Kwon from University of Alberta		
Authors	Mingjian Wu from University of Alberta		
Can drivers be competent to the existing design of semi-direct off-ramps after takeover? A driving			
	simulation study		
	Zijian Lin from Tongji University		
Authors	Feng Chen from Tongji University		
Authors	Hongchao Zhang from Tongji University		
	Chen Li from Tongji University		
Application Effect	of Self-luminous Variable Road Marking in Freeway Confluence Area Based on		
	Lane Change Behavior Intervention		
	Chen Li from The Key Laboratory of Infrastructure Durability and Operation		
	Safety in Airfield of CAAC, Tongji University		
A + h a . r a	Feng CHEN from Tongji University		
Authors	Hongchao Zhang from The Key Laboratory of Infrastructure Durability and		
	Operation Safety in Airfield of CAAC, Tongji University		
	Zijian Lin from Tongji University		
En	able Intelligent Vehicles to Avoid Crashes due to View Blocking		
	Quan Yuan from Tsinghua University		
	Jiangqi Zhu from Fada Institute of Forensic Medicine & Science, China		
	University of Political Science and Law		
	Yiwei Gao from Fada Institute of Forensic Medicine & Science, China		
	University of Political Science and Law		
Authors	Yang Yu from Fada Institute of Forensic Medicine & Science, China University		
	of Political Science and Law		
	Wei Ji from Fada Institute of Forensic Medicine & Science, China University of		
	Political Science and Law		
	Shengnan Yu from Fada Institute of Forensic Medicine & Science, China		
	University of Political Science and Law		
Cooperative contr	ol and optimization for connected signalized intersections using mixed-integer		
	linear programming models		
Authors	Jianguang Huo from SUTPC		
	Zujian Wang from SUTPC		
	Zhenwu Chen from SUTPC		
	Yong Zhou from SUTPC		
	Xiaochun Zhang from SUTPC		
	Yu Wang from SUTPC		
	Jie Peng from SUTPC		
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Shuang Li from Southeast University Ziyuan Pu from Monash University Guo Xiucheng from Beihang University Guo Xiucheng from Southeast University Yinhai Wang from University of Washington Reimagining Freeway Traffic Management with Flexible Travel Lane Configuration Author Smita Sharma from Lindsay Congestion pricing acceptability: how to win the audience Draženko Glavić from University of Belgrade, Faculty of Transport and Traffic Engineering Marina Milenković from University of Belgrade, Faculty of Transport and Traffic Engineering Aleksandar Trifunović from University of Belgrade, Faculty of Transport and Traffic Engineering Aleksandar Trifunović from University of Belgrade, Faculty of Transport and Traffic Engineering Aleksandar Trifunović from University of Belgrade, Faculty of Transport and Traffic Engineering Aleksandar Trifunović from University of Belgrade, Faculty of Transport and Traffic Engineering Aleksandar Trifunović from University of Belgrade, Faculty of Transport and Traffic Engineering Aleksandar Trifunović from University of Belgrade, Faculty of Transport and Traffic Engineering Aleksandar Trifunović from University of Belgrade, Faculty of Transport and Traffic Engineering Aleksandar Trifunović from University of Belgrade, Faculty of Transport and Traffic Engineering Aleksandar Trifunović from University A framework for integrated analyses of operations and safety on freeways Fabio Sasahara from University of Florida Seyedbehzad Aghdashi from University of Florida Shen Dong from University of Florida Aluthor Author Au	Inferring Causal Ef	fects of Crashes on Highway Traffic: A Novel Causal Machine Learning Approach	
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	Authors	Zhang Xiaochun from SUTPC	
		Zhou Yong from SUTPC	
Chen Zhenwu from SUTPC			
Wang Yu from SUTPC		Wang Yu from SUTPC	



	Peng Jie from SUTPC				
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	University Bochum				



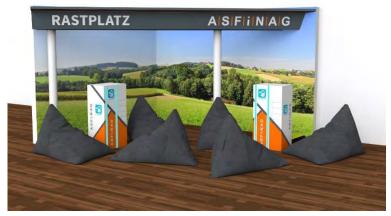
	Justin Geistefeldt from Institute for Traffic Engineering and Management, Ruhr University Bochum		
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Authors	Klaus Bogenberger from TU Munich		
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	Majid Rostami Shahrbabaki from TU Munich		
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	Mehdi Keyvan-Ekbatani from TU Munich		
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Choice Using Connected Vehicle Data			
Authors	Christopher Day from Iowa State University		
	Dorcas Okaidjah from Iowa State University		
	Dorcas Okalajan nom lowa state omversity		



A Sensitivity Analysis of Freeway CAV Platooning Parameters to use in Microsimulation			
Author	Saumik Sakib Bin Masud from The University of Kansas		
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Author	Saumik Sakib Bin Masud from The University of Kansas		
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Authors	Filmon Habtemichael from Battelle Memorial Institute		
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Authors	Montasir Abbas from Virginia Tech		
	David K Hale from Leidos, Inc.		
User cost-based analysis of shared autonomous vehicles (SAV) and public transport			
Authors	Susilawati Susilawati from Monash University Malaysia		
	Gan Wei Heng from Monash University Malaysia		

Recharge at ASFINAG Rastplatz

During the event, our partner ASFINAG offers a relaxing area where you can recharge, network, and take a break from the excitement of the event. Whether you're feeling a bit tired, want to have a casual conversation, or simply need a moment of tranquility, the lounge is the perfect spot for you. At the Rastplatz, you will find comfortable seating and charging stations for your devices. Enjoy the atmospheric view to the hills of Austria.



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Learn more about Tunnel Projects go digital

Yunex Traffic Digital Twin solution presents a virtual reality visualization of tunnels, achieved through the integration of BIM, traffic and asset management systems, as well as traffic simulation. VR experience has an impact on decision making and overall understanding of the project.



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Side events

Monday, 26 June

TM 2.0 | 11th General Assembly

When: 13:15-15:15 Where: TechGate Vienna, Sky Maxi/Sky Point

Technical Tours addressing Traffic Management System and ITS

Information related to the Technical Tours can be found here. Registration is now open.

Tuesday, 27 June, 18:30

Networking Dinner at Luftburg

This year's TRB ISFO participants can join a Networking dinner at Luftburg. This restaurant does not only serve everything from traditional Viennese cuisine to vegetarian and vegan dishes and drinks in 100% organic quality but is also located in the world famous "Wiener Prater" amusement park.



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Technical Tours addressing Traffic Management System and ITS

Information related to the Technical Tours can be found here. Registration is now open.

Wednesday, 28 June



Technical Tours addressing Traffic Management System and ITS

Information related to the Technical Tours can be found here. Registration is now open.

Thursday, 29 June

2nd ASECAP Sustainability Forum (separate registration)

The Second ASECAP Sustainability forum will address scenarios for road decarbonisation, actions to reduce CO2 emissions in road management and operation including contractors as well as steps to reach the sustainability aims. The focus will also be on how to reduce Scope 3 emissions related to suppliers with impact on tendering process, costs and contract issue. Following questions will also be discussed: "How to ensure the resilience of the road infrastructure for new challenges?", "How to approach the EU Taxonomy, which sectoral activities should be considered as taxonomy eligible and which as taxonomy aligned?", "How do climate change adaptation solutions, that motorway operators will have to fulfil in order to prepare their infrastructure for climate change, need to be deployed and interpreted?". Moreover new TEN-T regulation and future Alternative Fuels infrastructures will be discussed.

When: 09:00-17:00 Where: Auditorium, TechGate Vienna

REGISTER HERE

Joint Meeting: TRB ACP20 – Freeway Operations Committee Meeting & TRB Research Board			
Standing Committee on ITS			
When: 16:00-18:00	Where: AustriaTech, Raimundgasse 1/6, 1030		
	Vienna		

Friday, 30 June

Technical Tours addressing Traffic Management System and ITS

Information related to the Technical Tours can be found here. Registration is now open.



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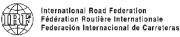
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Transportation Research Board Committees and Council

Freeway Operations Committee (ACP20)
Artificial Intelligence and Advanced Computing Applications Committee (AED50)
Intelligent Transportation Systems Committee (ACP15)
Active Traffic Management Joint Subcommittee (ACP20-5)
Managed Lane Committee (ACP35)
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