

Executive Sessions – as of May 12, 2017

ID	Title	Description
ES01	Breaking Silos to Pave the Way to Automated Vehicles	<p>An ecosystem of industry and government partners must be established to contribute the necessary enabling components for the autonomous future. Auto and truck OEMs must work with technology partners to provide on-board sensors for cars and trucks, as well as self-healing and accurate high-definition maps to support safe and effective autonomous driving. Full V2X connectivity must be implemented in a scalable and sustainable operating model. Finally, governments and industry must work together to regulate the entire process. This session will explore how these stakeholders can move from operating largely independently, as they do today, to cooperating effectively and quickly for a safe autonomous future.</p> <p><i>Track: Connectivity and Autonomy</i></p>
ES02	Securing Critical ITS Infrastructure in a Connected World	<p>Critical ITS infrastructure is vulnerable to physical and cyber-attacks against computer systems, networks, applications, and mobile devices. With the Internet of Things (IoT) becoming more prevalent, our society is becoming more "networked" meaning that traditionally isolated control systems connecting business, government, and citizens become more vulnerable. To date, government agency and business websites and data bases have been compromised resulting in stolen personal data among other things. Some of these actual incidents include breaches in transportation operations. This session will address the policies needed and best practices that can be used to secure our ITS systems, assuring the public they are safe when using connected transportation systems.</p> <p><i>Track: Infrastructure Challenges and Opportunities</i></p>

Executive Sessions – as of May 12, 2017

ID	Title	Description
ES03	ITS Delivering Livability	<p>City transport has improved considerably over the last 20 years based on understanding traffic throughput, safety and environmental impact. But today's city pressures are much wider ranging with many linked to demographic trends such as increasing and ageing urban populations. We need to make our cities more pleasant places in which to work and live but adding to city infrastructure is slow, expensive, and usually unwelcome. And in many cities there just isn't the space to extend infrastructure. To make our cities more livable we need to deliver transport and other services in new ways. We need to devise new tools for city managers that allow them to understand and address the best ways to: balance supply and demand; reduce congestion and improve air quality; integrate all modes of transport and incorporate MaaS; modernize public transport and make all city transport more accessible; upgrade the facilities for pedestrians and cyclists; reduce transport's energy consumption; allow passenger and freight services the best shared use of infrastructure; convert to Electromobility; and supply better transport information, ticketing and payment services. This session will explore whether we can deliver gains in all these areas by finding better ways to use what we have.</p> <p><i>Track: Smart(er) Cities</i></p>
ES04	Freight Technology: How Do We Ensure Public Safety	<p>Freight companies have considerable expectations from new technologies, but the impacts on public safety are not necessarily being considered. Private fleet truck platooning systems are emerging, freight drone deployments are rapidly becoming a reality, and unmanned commercial vehicle inspection systems are being deployed that minimize human intervention, greatly reduce delays to scheduled delivery times and make supply chains cheaper. Public agencies must engage with the freight industry to ensure safety while not unduly inhibiting efforts to improve freight movements. This session will bring together global shippers, freight movers, regulatory agencies and technology companies to explore how these groups can work together to improve both freight operations and public safety.</p> <p><i>Track: Disruption and New Business Models</i></p>

Executive Sessions – as of May 12, 2017

ID	Title	Description
ES05	Practical Aspects of Deploying Connected and Automated Vehicles	<p>Connected and automated vehicles development continues to accelerate but routine deployment is still many years away, so it is timely to begin planning for a smooth transition. Deployment requires critical technology developments and has been the focus of a lot of innovation and trials within the ITS community. Some key technical and standardization challenges still need to be addressed (e.g. seamless connectivity, robust positioning, driver interaction) but in general the technical issues are better understood than the practical challenges and the impact on other transport stakeholders. A lot more testing in real-world conditions and especially in cities is required to fully understand whether, and if so how, automated vehicles can run alongside traditional traffic on legacy infrastructure. Will automated vehicles benefit or damage cities' public transport? Questions regarding the financial impact and benefits on society, interoperability across jurisdictions and robustness against cyber-threats are yet to be answered. There may also be a need to manage travel demand in new ways, develop new policies, and encourage the social acceptance of the new mobility to ensure all stakeholders can benefit from it. This session will steer debate away from technology on to practical deployment aspects.</p> <p><i>Track: Connectivity and Autonomy</i></p>
ES06	Smart Connected Cities Promote Smart Mobility	<p>“Smart Cities” involve the application of advanced technologies, including ITS, within an urban environment. Smart Connected Cities enable information, including transport data, to be collected, analyzed and along with energy grids, buildings, utilities and communications systems, to be utilized to enhance urban services. Furthermore, Smart Cities enable better citizen engagement, social networking and data analysis. Connecting these services and activities will result in information shared among agencies and the public to improve travel experience and efficiencies. For example, travelers in this connected environment will be able to monitor and manage their own carbon footprint which can in turn influence travel choices. This session brings together senior government and private sector leaders to discuss how ITS can contribute to Smart Cities and urban mobility.</p> <p><i>Track: Smart(er) Cities</i></p>

Executive Sessions – as of May 12, 2017

ID	Title	Description
ES07	ITS Deployment Policies	<p>The deployment of autonomous vehicles is moving forward at a rapid pace. The private sector is investing in this technology with the expectation that it will become commonplace. However, the rate of deployment is far outpacing public sector investment and preparation. How are transportation planners and government officials thinking about and preparing for autonomous vehicles? How do planners adjust their investment decisions based on the expected deployment of connected and autonomous vehicles (CAV)? While no one knows when CAV will be prevalent or how the mix of vehicles and modes will function, planners must consider the impacts of CAV. In this session, government leaders will discuss about roadmap to ITS deployment especially on automated driving systems based on the latest market trend and technology development status, and exchange their thoughts on how to make wise investment choices for the future given the potential impacts their decision-making and investments.</p> <p>Track: Connectivity and Autonomy</p>
ES08	Mobility as a Service	<p>Mobility as a Service (MaaS) has the potential to break the traditional link between mobility and vehicle ownership. It offers the promise of ‘pure movement’ where customers are offered journeys on demand for all modes of transport. But delivering MaaS is difficult especially in a deregulated environment. Service providers need to supply reliable travel in real time without necessarily controlling the means of transport. Transport providers must offer responsive services that will compete with private cars using collective or shared transport. MaaS will require changing a business model from one where you hope for a near-monopoly to one where you accept that you’re a partner in a new type of enterprise with a smaller share but that share is a part of a much larger overall market. But whether start-ups or existing providers take the lead, the prizes on offer are potentially huge. Successful operators will learn about the end-to-end journey patterns of their customers, a potential treasure trove of marketing information. So, while the challenges of delivering MaaS are significant, the benefits are equally large. This session will explore how to change suppliers’ attitudes and develop new private-private partnerships.</p> <p><i>Track: Disruption and New Business Models</i></p>

Executive Sessions – as of May 12, 2017

ID	Title	Description
ES09	Better Traveler Information Technology and Institutional Issues for Automated Driving	<p>Travelers now have an increasing number of alternatives to utilize when making their journeys. Many of these mobility options incorporate technology to facilitate operations and customer information. Further, multimodal operations (e.g., Integrated Corridor Management) and V2X cooperative systems are likely to significantly increase in the future, including adoption of SPaT (Signal Phase & Timing) information. Finally, there will be an increase in the number of connected and autonomous vehicles (CAV). Improved Situational Awareness will be a key part of delivering future transportation services. This session will explore 1-how the industry and government are working together to provide road users with relevant and accurate transportation information and technology to facilitate travel decision making, 2-what are the expected changes in travel behavior as a result of better traveler information and technology, and 3-what is a status of insight for institutional issues between international framework and domestic regulation for automated driving. Speakers will discuss about how to overcome the challenges to implement the innovative technologies.</p> <p><i>Track: Infrastructure Challenges and Opportunities</i></p>
ES10	Resilient, Safe and Smart Infrastructure	<p>The design, operation and management of transport infrastructure is already very complex. Traditional physical systems are just a start: modern infrastructure must provide digital services to support traveler information, the operation of connected and highly automated vehicles, and adaptive area-wide traffic management. Our infrastructure must be able to cope with traffic jam, man-made incidents and deliberate attacks as well as exceptional weather conditions such as drought, flooding and extreme temperatures. And transport systems must be robust, sustainable and resilient if they are to support daily life under all conditions, composed of infrastructure that degrades gracefully and safely. There must be seamless integration of services across all modes, and networks need to be reconfigurable so that local incidents can be isolated and traffic re-routed. ITS can contribute to proactive maintenance tools, before and on-trip traveler information, and the optimization of operations, in order to ensure continuous everyday mobility. This session will look at different strategic approaches, and the concept, design, structure and evaluation of resilient systems in addition to smart use and smart investment of infrastructure.</p> <p><i>Track: Integrated Approach: Planning, Operations and Safety</i></p>

Executive Sessions – as of May 12, 2017

ID	Title	Description
ES11	Communication Options for Connected, Cooperative and Automated Transport	<p>Recent developments in telecommunication, sensor and information technologies have enabled substantial progress in the domain of transport automation. Cooperative and automated driving are both expected to bring substantial benefits in terms of safety, comfort and (traffic and fuel) efficiency. As an ambition, fully automated (or autonomous) driving has captured the public's imagination. While technologies at the lower end of the automation spectrum are readily available, substantial development and maturity is required to realize full automation. There are particular challenges in terms of competing communication technologies, reliability, harmonization and standardization which create an ideal opportunity for governments, ICT infrastructure providers and transport stakeholder to intervene and support cooperative driving to realize key benefits in the near future. This session will explore the communications challenges and opportunities presented by connected and automated systems.</p> <p><i>Track: Connectivity and Autonomy</i></p>
ES12	New Business Models	<p>Traditional models of supply and demand are being disrupted. We are used to travelers driving cars and trucks that they own with an associated tax, using fuel that is taxed, with fees for using infrastructure provided and paid for by Government. Public transport is available that in most countries is planned and managed in terms of what operators want to supply rather than services driven by what users want and are willing to pay for. But the old model is crumbling. Some vehicles can now perform driving tasks better than most people and will soon be able to move without needing a driver – what might this mean for bus services? for regular freight deliveries? Electromobility is depressing the revenue from liquid fuel taxes. There is a strong shift to sharing transport rather than owning it. There's huge availability of transport data and organizations are making money selling it or/and using it. What do all these developments mean for traditional business models? Do we need new forms of public-private partnership with different risk management? Do policy makers need to re-think regulation to encourage innovative services? How will governments sustain transport expenditure in a sharing economy? This session asks the questions and looks for answers.</p> <p><i>Track: Disruption and New Business Models</i></p>