

ENGLISH



INTERNATIONAL SEMINAR

SEPTEMBER 26TH -28TH, 2022 - HILTON BUENOS AIRES HOTEL

*Building Smart Approaches for Freight,
Road Network Operations and
ITS Technology*



ORGANIZED BY



CO-ORGANIZERS





1. SCHEDULE OF PIARC INTERNATIONAL SEMINARS

PIARC (World Road Association) is a non-profit, non-political association, whose mission is to organize forums, promote good practices and efficient tools in order to assist and support decision makers in the field of road infrastructure and transport. Since 1999 PIARC has been conducting a program of international seminars that strengthens its global presence, its ability to respond to the needs of developing countries and those in transition, and promotes the results of the work of the association more widely in these countries.

2. TECHNICAL COMMITTEE 2.3: FREIGHT

Technical Committee 2.3 “Freight” focuses on vehicle overloading and its related consequences. Since road freight transport heavily depends on fossil fuel, this Technical Committee investigates the strategies and measures to reduce greenhouse gas emissions of road freight transport, taking into account the potential of new technologies in the logistics and transport services of goods.

Objectives:

- **2.3.1.** Find and spread the best practices to monitor, regulate and reduce the overload and damage associated with infrastructure in road networks
- **2.3.2.** Achieve a greener freight transport
- **2.3.3.** Study the application of emerging technologies in freight transport and logistics

3. TECHNICAL COMMITTEE 2.4: ROAD NETWORK OPERATION – INTELLIGENT TRANSPORTATION SYSTEMS

The capacity of the road network is not fully exploited, since traffic demand is concentrated only on small sections of the whole network. Technical **Committee 2.4** focuses on how new mobility, new technologies and digitalization are incorporated into the operation of road networks. This Technical Committee investigates the concept of **Mobility as a Service (MaaS)**. It also works on updating the RNO / ITS Manual.

On the other hand, there are issues that are common to the vast majority of the Technical Committees, such as mobility between urban and rural areas or data based solutions.

Objectives:

- **2.4.1.** Find opportunities for new forms of mobility in the operation of the road network
- **2.4.2.** Optimize the decision making process related to the operation of the road network through the implementation of new technologies and digitalization
- **2.4.3.** Share the knowledge of RNO/ITS through PIARC online resources



4. 4. OBJECTIVES OF THE SEMINAR

The objectives are to disseminate and debate those issues and best practices related to freight, road network operations and ITS technologies, such as: detection of overloads, compliance, performance standards, heavy duty vehicles, cargo management within and around cities, and freight carbon neutrality, including electrical systems and emerging technologies in freight and logistics.

On the other hand, there will be a debate and knowledge sharing on the role of road operators in the development of MaaS (Mobility as a Service), electromobility, ITS and C-ITS worldwide and data.

Finally, there will be a discussion on topics such as smart infrastructures, road safety, truck management in international and national corridors, border crossing, multimodal transport, parking lots and supply chain, needs of freight drivers and the connectivity of truck fleets (both independent or connected) through ITS technology. Topics and papers cover the work period between January 2020 and October 2023.

5. WHO IS THE SEMINAR ADDRESSED TO?

PIARC International **Seminar Building Smart Approaches for Freight, Road Network Operations and ITS Technology** is addressed to government authorities and administrations; private providers of technical and technological products, systems and services; officers and leaders in charge of roads, highways, transit, logistics and road safety; engineers and consultants; freight carriers; administrators of road networks; control and technical assistance authorities; local and international academics, researchers and students of engineering courses; world experts in other fields of experience related to the aforementioned topics.



6. GENERAL INFORMATION AND VENUE OF THE SEMINAR

The seminar will take place from **September 26th to September 28th, 2022**, in the **city of Buenos Aires**, capital of the Argentine Republic. Argentina is a sovereign country located in South America, bordering Bolivia, Brazil, Chile, Paraguay and Uruguay. Its maritime border is the Atlantic Ocean. The surface area of Argentina is 2,780,400 km². It is an extraordinary tourist destination due to its innumerable cultural expressions and the climatic and landscape diversity of its geographical areas.



7. SESSIONS AND LANGUAGES OF THE SEMINAR

The seminar will be organized in several sessions and will address various topics included in the preliminary program. Panels will take place during the three days of the seminar. Each session will include several presentations from members of Technical Committees 2.3 and 2.4, as well as from local and international experts. At the end of each session, there will be a debate in order to discuss the different topics covered in the presentations. **The official languages of the seminar will be Spanish and English, with simultaneous translation offered.**



8. PRELIMINARY PROGRAM

The sessions of the seminar will be organized according to the following preliminary schedule:

- **F1.** Performance based standards, heavy duty vehicles and Intelligent Access Program.
- **F2.** Towards road freight decarbonization (including Electrical Road Systems).
- **F.3.** Cargo management within and around cities.
- **F4.** Detection and control of overweight through Dynamic Weighing, regulations and best practices.
- **I1.** The role of road operators in the development of the concept of Mobility as a Service.
- **I2.** C-ITS: Collaborative Intelligent Transport Systems worldwide.
- **I3.** Data as facilitators of road operators and C-ITS.
- **I4.** Best practices for sharing and refining knowledge on new ITS technologies and capabilities.
- **FI1.** Autonomous and connected trucks; platoons and ITS.
- **FI2.** How can road operators address the needs of freight drivers through ITS?
- **FI3.** ITS for truck management in national and international corridors.
- **FI4.** Smart infrastructure and road safety.

REFERENCES:

F: Transport sessions (F1 - F4)

I: ITS sessions (I1 - I4)

FI: Transport + ITS sessions (FI1 - FI4)



9. ORGANIZATION COMMITTEE

- **Miguel CASO FLOREZ** (*España*)
PIARC Technical Director
- **Martín RUESCH** (*Switzerland*)
Chair of Technical Committee 2.3, Freight
- **Valentina GALASSO** (*Italy*)
Chair of Technical Committee 2.4, Road Network Operation – Intelligent Transportation Systems
- **Jeayoun KIM** (*Republica of Korea*)
PIARC Seminar Coordinator
- **Silvia SUDOL** (*Argentina*)
Technical Committee 2.3, Freight
- **Daniel RUSSOMANNO** (*Argentina*)
Secretary of Technical Committee 2.4 (Spanish), Road Network Operation – Intelligent Transport Systems
- **Nicolás BERRETTA** (*Argentina*)
President of Argentine Road Association

10. TECHNICAL COMMITTEE

- **Miguel CASO FLOREZ** (*España*)
PIARC Technical Director
- **Martín RUESCH** (*Switzerland*)
Chair of Technical Committee 2.3, Freight
- **Valentina GALASSO** (*Italy*)
Chair of Technical Committee 2.4, Road Network Operation – Intelligent Transportation Systems
- **Jeayoun KIM** (*Republica of Korea*)
PIARC Seminar Coordinator
- **Silvia SUDOL** (*Argentina*)
Technical Committee 2.3, Freight
- **Tiffany JULIEN** (*United States*)
Secretary of Technical Committee 2.3 (English), Freight
- **Bernard JACOB** (*France*)
Secretary of Technical Committee 2.3 (French), Freight
- **Carlos SANTILLAN DOHERTY** (*Mexico*)
Secretary of Technical Committee 2.3 (Spanish), Freight
- **Daniel RUSSOMANNO** (*Argentina*)
Secretary of Technical Committee 2.4 (Spanish), Road Network Operation – Intelligent Transportation Systems
- **James ELLIOT** (*United States*)
Secretary of Technical Committee 2.4 (English), Road Network Operation – Intelligent Transportation Systems
- **Kaouther MACHTA** (*Tunisia*)
Secretary of Technical Committee 2.4 (French), Road Network Operation – Intelligent Transportation Systems

	TIME	SESSION TITLE	SPEAKERS	TITLES
DAY 1	14:30-15:00		Opening PIARC Seminar TC2.3 an dTC2.4	
	15:00-16:10	Connected and autonomous trucks, platooning and ITS	Chair: Caroline Mays (USA)	
			Bernard Jacob(France)/Jim Chapell(UK)	Platooning – European project ENSEMBLE and perspectives
			Monika Darwish (USA)	Kodiak Autonomous truck program
			Virginia Lingham (USA)	Truck Automation and platooning trends in in the United States
			Sylvain Belloche (France)	Delegated driving experiments in France
	16:10-17:15	How can Road Operators address freight drivers needs through ITS?	Chair: Hernán Perez Zarlenga (ARG)	
			Valentina Galasso (Italy)	
			Paula Dowell (USA)	
			Alejandro Molina (ARG)	Operation of Paseo del Bajo Freight Road Corridor
			Miguel Bravo (ARG)	Impact of CAEV on Freight Transport
	DAY 2 - TRANSPORT	09:00-10:30	Performance based Standards, High Capacity Vehicles and LAP	Chair: Guillermo Hughes (Argentina)
Gavin Hill (Australia)				IAP in Australia
Taneli Antikainen (Finland)				High capacity vehicles (HCVs) in Finland
Paul Nordengen (Sudáfrica)				PBS in South Africa
Edgar Higuera (Colombia)				Road transport Operations, an approach from the shippers' perspective
Panel discussion and Q&A				Alejandra Efron, Gavin Hill, Bernard Jacob,Taneli Antikainen, Paul Nordengen
10:30 - 11:00		Coffee Break		
11:00-13:15		Towards the carbon neutrality of freight transport	Chair: Else-Marie Marskar (Norway)	
			Patrick Grassl (Austria)	Greening freight – why is it necessary?
			Else-Marie Marskar (Norway)	Greening freight – is it possible?
			Hinko van Geelen (Belgium)	Greening freight, approaches and practices
			Claudio Damiano (Argentina)	Electromobility: Clean and Low Cost?
			Bernard Jacob (France)	Electric Road Systems in France and Germany
			Omer Onar (USA)	Advanced inductive solutions for ERS
			Panel discussion and Q&A	
13:15 - 15:00		Lunch		
15:00-16:30		Freight management in and around cities	Chair: Hinko van Geelen (Belgium)	
			Olivier Quoy (Francia)	Truck Traffic Regulation around big Cities / Bordeaux CaseS
			Maximiliano Parisi (Argentina)	Urban Logistics, Supply Chain Management
			Jose Holguin-Veras (USA)	The role of freight demand management around cities
			Roberto Pachame (Argentina)	Comprehensive automotive transportation control system
	Panel discussion and Q&A			
16:30 - 17:00	Break			
17:00-18:30	Overload detection and direct enforcement by WIM, regulations and best practices	Chair: Bernard Jacob (France)		
		Bernard Jacob (France)	Overload mitigation and direct enforcement by WIM in the EU	
		Gustavo Otto, Leonardo Guerson (Brazil)	Experience of Enforcement by WIM in Brazil	
		Javier Jorge (Argentina)	New Regulation of WIM in Argentina	
		Jolanda Prozzi (USA)	Intelligent Truck Weight Monitoring: Potential Technologies vs Texas Regulations	
		Panel discussion and Q&A	Tom Kearney, Paul Nordengen, Bernard Jacob, Gustavo Otto, Javier Jorge, Leonardo Guerson	

DAY 2 - ITS	TIME	SESSION TITLE	SPEAKERS	TITLES	
	09:00-10:30	The role of road operators for MaaS development	Chair: Valentina Galasso (Italy)		
			Valentina Galasso (Italy)		How can road operators deal with the MaaS paradigm?
			Claude Sirois (Canada)		Implementing MAAS in Québec : Issues, challenges and opportunities
			Arve Kirkevold (Norway)		Shared mobility – the foundation of MaaS "The Norwegian roadmap for urban sustainable transport and micromobility towards 2033."
			James Elliot (UK)		UK Future Transport Zones and MaaS solutions
			Ana Luz (Spain)		
	Panel discussion and Q&A				
	10:30 - 11:00	Coffee Break			
	11:00-13:15	C-ITS across the globe	Chair: Moderador: Mario Aguirre (Argentina)		
Galen Mc Gill (USA)					
Marie-Christine Esposito				European C-Roads platform	
Sebastián Canziani (Argentina)				Experiences of Faculty of Engineering	
Jorge Felizia (Argentina)				Simulation of Traffic Systems	
Jianming Ma (TxDOT, USA)				The future of Intelligent Cooperative Transportation Systems in the USA.	
Clarissa Han (Australia)				International Cooperation Autonomous Mobility Deployment in Australia	
Panel discussion and Q&A					
13:15 - 15:00	Lunch				
15:00-16:30	Data as an enabler for road operators and C-ITS	Chair: Silvina Criveler (Argentina)			
		Ana Luz (Spain)		Spanish DGT 3.0 experience	
		Wee Ping (Singapore)		COVID-19 Impact on Traffic, Public Transport and Road Maintenance	
		Gonzalo Atanasof (Argentina)		Operation of National Road Corridors	
		Martin Margreiter (Germany)		Automated Traffic Test Bed Data for Cooperative Mobility	
		Claudio Rimauro (Argentina)		AUSA MAPS: O&M Road Assets Management Software	
Panel discussion and Q&A					
16:30 - 17:00	Break				
17:00-18:30	Best practices for knowledge sharing and upskilling for new technologies and ITS capabilities	Chair: Andrés Panero (Argentina)			
		Jennie Martin (UK)		The role of knowledge sharing for LMICs	
		Paula Dowell (USA)			
		Carlos Fernández (Argentina)		Challenges of Bussiness Companies in Smart Cities in LATAM	
		Daniel Russomanno (Argentina)		Importance of RNO and ITS manual in Latin America	
		Michelle Ganz (Italy)		Free Flow: Experiencias exitosas de implementación	
Panel discussion and Q&A					

DAY 3	TIME	SESSION TITLE	SPEAKERS	TITLES	
	09:00-10:30	ITS for management of trucks in international and national corridors, border crossing, multi-modal transport, parking lots, and supply chain	Chair: Martin Ruesch (Switzerland)		
			Tiffany Julien (USA)		ETruck parking from the USDOT/ Federal Highway perspective: Overview of the Truck Parking Development Handbook
			Jens Dierke (Germany)		Truck parking from the USDOT/ Fed. Highway perspective: Overview of the Truck Parking Development Handbook
			Caroline Mays (USA) y Juan-Carlos Villa (USA)		Managing Texas/Mexico border crossings
			Wilsimar García		Border Crossing Brazil/Argentina issues
			Carlos Santillán - Doherty (Mexico)		We have the data... ¿now what? A practical guide to logistics corridor management
	Panel discussion and Q&A				
	10:30 - 11:00	Coffee Break - Visit to Stands / Banners			
	11:00-12:30	Smart infrastructures and road safety	Chair: Emma Albrieu (Argentina)		
Daniel Mofa (Argentina)				ITS in Network of Long Road Corridors	
Pablo Servent (Argentina)				Lighting telecontrol in Argentina	
Hinko van Geelen (Belgium)				Road safety considerations on active modes and freight	
Gush Khankarli (USA)				City of Dallas Vision Zero	
Luigi Carrarini (Italy)				The Smart Road Program of ANAS: how intelligent roads can enable smart mobility and improve significantly road safety	
Panel discussion and Q&A					
12:30 - 13:00	Conclusions and Closing of PIARC Seminar				



GENERAL INFORMATION

VENUE: HILTON BUENOS AIRES HOTEL

Macacha Güemes 351
Ciudad de Buenos Aires, Argentina

www.congresodevialidad.org.ar/centro.php



Hilton Buenos Aires Hotel offers single rooms for a daily rate of usd 229, including breakfast.

For reservations contact:

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HOTEL LIST - PIARC SEMINAR 2022

Hotel	Address	Web
HOTEL EMPERADOR	Av. del Libertador 420,CABA	www.hotel-emperador.com.ar/es
MELIA BUENOS AIRES	Reconquista 945, C1003ABS CABA	www.melia.com/es/hoteles/argentina
NH CITY	Bolívar 160, CABA	www.nh-hoteles.es/hotel/nh-buenos-aires-city
HOTEL INTERSUR RECOLETA	Av. Callao 1764, CABA	www.intersurrecoleta.com.ar/es/



TRAVEL AND TRANSPORTATION

The city of Buenos Aires is well linked to the rest of the world through the **Ministro Pistarini International Airport (Ezeiza)**.

There are plenty of affordable taxi and transportation services to the city center, as well as online taxi apps.

WEATHER

The weather is very pleasant in September in Buenos Aires. Temperature ranges from 15 to 25°C.



ARGENTINE ENTRY REQUIREMENTS

In reference to COVID19 there are no current requirements for those who wish to enter Argentina:

Documents needed to enter the country as a tourist:

- Valid Passport
- Valid Identity Card from your country of origin being any of the following: Brazil, Bolivia, Uruguay, Paraguay, Chile, Peru, Venezuela, Ecuador and Colombia.

For further information, visit:

www.argentina.gob.ar/interior/migraciones/ddjj-migraciones

VISAS

For detailed information on immigration procedures and requirements, please contact your embassy or consular office.

Click on the following link in order to check whether you need a valid visa to enter Argentina:

www.migraciones.gov.ar/accesible/indexdnm.php?visas



REGISTRATION FEE

PIARC International Seminar "Building Smart Approaches for Freight, Road Network Operations and ITS Technologies" will be held within the XVIII Argentine Congress of Road Administration and Traffic. Click on the following link for registration:

www.congresodevialidad.org.ar/inscripcion.php

Members of PIARC Technical Committees 2.3 and 2.4 will be pre-registered free.



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