



2022 Annual Report

An Executive Summary of Activities



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2022 IRF EXECUTIVE SUMMARY & ANNUAL REPORT

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CHAIRMAN'S FOREWORD



The International Road Federation has expanded significantly from the traditional roadway construction and surfacing sectors, when we were founded 75 years ago, to all aspects of roadway safety, Traffic Engineering & Consulting Services, Intelligent Transportation Systems, Road User Charging, Smart Mobility, Smart Cities, Big Traffic Data, Advanced Video Analytics, Cloud Computing, Connected & Autonomous Vehicles, Electric Vehicles, and others yet emerging.

Today, each of us is part of a global, all-inclusive professional community that is dedicated to your success by eliminating roadway accidents, injuries, and fatalities, and by moving people and goods more efficiently through the surface transportation infrastructure. In fact, our industry has received new mandates to go driverless, halve

road fatalities by 2030, and achieve "net zero" emissions by 2050. This ambition can only be supported if our sector is united in its efforts.

Under my chairmanship, the IRF will continue providing access, to the finest and largest portfolio of knowledge-based resources, training programs, and technical committees, allowing transportation professionals everywhere, at whatever stage of their career, to acquire the essential technical, commercial and leadership skills needed to succeed. Our educational services and Fellowship programs are the very best worldwide, and the return on investment is priceless- for both organizations and the individuals participating.

The IRF will also continue developing new, and nurturing existing formal partnerships with Academia, Government Agencies, Development Institutions, and Private businesses around the world to make our vision a reality. For those private businesses that don't know how to export their goods or services internationally, we can provide the necessary IRF

training and expertise to make that a reality. For traffic management agencies, seeking the latest technical solutions and best practices, we can make that a reality with our cadre of subject matter specialists.

Like anything else, you will get out of the IRF, what you are willing to put into it. The benefits are the greatest for those who have the opportunity and willingness to participate in training programs, conferences, and technical committees. This is an investment into your future, and into the collective future of our society.

A handwritten signature in blue ink, reading "Wm. H. Sowell".

Dr. Wm. H. (Bill) Sowell, MBA, PhD
Chairman
International Road Federation

**"A Global Community
Dedicated to your
Success"**



IRF AT-A-GLANCE

Eng. Abdullah Al-Mogbel Named Chairman Emeritus for Life of IRF Global

Since 2011, Eng. Abdullah Al-Mogbel's distinguished leadership of the International Road Federation (IRF Global) has been an inspiration to countless road professionals worldwide. His vision and achievements represent an enduring legacy for the global road community.

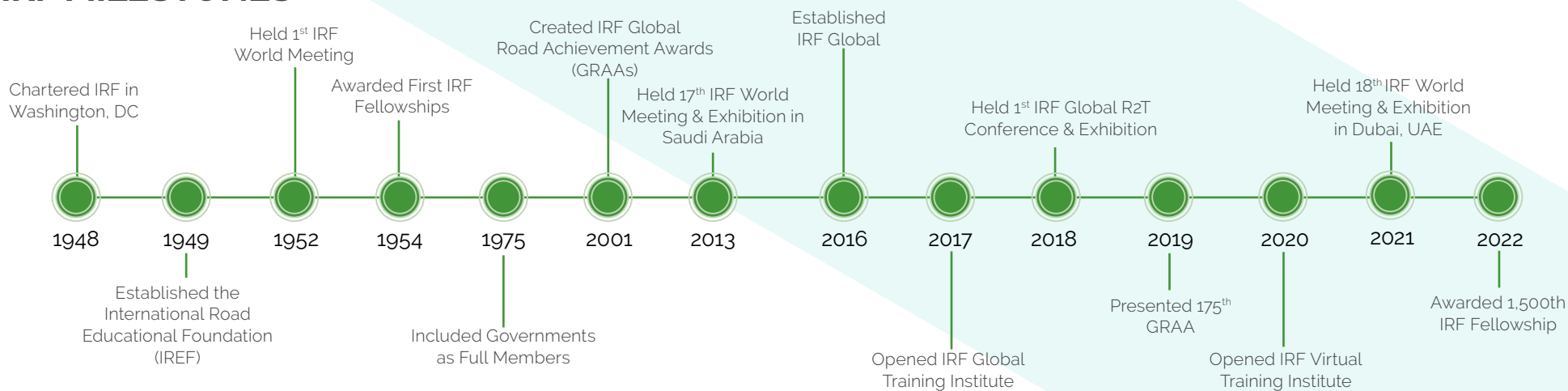
When IRF presented its prestigious "Man of the Year" award to Eng. Abdullah Al-Mogbel in 2007, it did so recognizing his achievements as well as his dedication to the founding vision of this organization.

The then Deputy Minister of Roads of the Kingdom of Saudi Arabia quickly rose to Mayor of Riyadh 2012 and Minister of Transport in 2014. His commitment to IRF Global has never wavered over the years.

This extraordinary distinction, awarded for the first time in our Federation's history, recognizes Eng. Abdullah's remarkable leadership as Chairman of the IRF between 2011 and 2022.



IRF MILESTONES



IRF BOARD OF DIRECTORS

With leadership from 27 countries, the IRF Board of Directors represents all aspects of the road and transport industry, including government, academia, and the private sector, and truly reflects the IRF's status as a global federation.

Chairman Emeritus for Life

Abdullah A. Al-Mogbel
Kingdom of Saudi Arabia

Past Chairman

Brian Stearman
Parsons (retired) | USA

Chairman

William Sowell
Argonaut International
Consulting, Inc | USA

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3M | USA
Jeffrey R. Reed
Valley Slurry Seal Co. | USA
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Vice Chairmen

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President & CEO and Secretary

C. Patrick Sankey
International Road Federation

IREF Chairman

Kamil Kaloush
Arizona State University, USA

Elected Directors to Serve on the Executive Committee (2022-2023)

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Mutlaq ALGhowari
Company | KSA

Nina Elter
EROAD | Germany

Robert Jaffe
Consensus Systems
Technologies | USA

Koji Kaminaga
Japan Road Assoc |
Japan

José Revés
Ascendi | Portugal

Fernando Ribeiro
Lindsay | USA

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Dan Chen | USA
Armco Staco
Fernando Vilhena | Brazil
Consulpav
George Way | USA
Consensus Systems
Technologies
Robert Jaffe | USA
Emovis
Benoit Rossi | France

EROAD
Peter Carr | New Zealand
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Terry Bills | USA
Euro Group
Ibrahim Mourad | KSA
Franchetti Group
Paolo Franchetti | Italy
Horizon Signal Technologies
David Krahulec | USA
Iowa State University
Omar Smadi | USA

Japan Road Association
Koji Kaminaga | Japan
MicroTraffic
Craig Milligan | Canada
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Infrastructure
Abdelrahman Ali Abdulla
Almahmoud | UAE
Ministry of Transport
Robert Mantague | Jamaica
Mutlaq ALGhowari Company
Mutlaq ALGhowari | KSA

National Roads Authority
Paul Parchment | Cayman
Islands
Parsons
Dan Lukasik | USA
Roadscanners
Timo Saarenketo | Finland
SAPTCO
Khalid Al Hogail | KSA
SensysGatso
Philip Wijers | Netherlands

South African Road Federation
Philip Hendricks | South Africa
Transpo Industries
Michael Stenko | USA
University of Alabama
Justice Smyth | USA
University of Nebraska
Ronald Faller | USA
Valley Slurry Seal Co
Jeffrey Reed | USA

Directors (2022-2024)

Amazon Web Services
Randy Iwasaki | USA
Argonaut International
Consulting, Inc
William Sowell | USA
Arizona State University
Kamil Kaloush | USA
Ascendi
José Revés | Portugal
Argentina Road Association
Nicolás Berretta | Argentina
AVS-Berghaus
Dirk Schönauer | Germany

Bechtel
Chris Jennions | UK
China Road Federation
Shing-Hau Jaw | Chinese Taipei
Dar Al-Handasah
Bashar Rihani | Lebanon
ETI
John Lee | USA
Fortis CS
Oleg Pekerman | USA
Japan Road Contractors
Association
Yoshinori Nishida | Japan

Lindsay
Fernando Ribeiro | USA
Public Authority for Roads &
Transportation
TBN | Kuwait
Ministry of Transport and
Logistic Services
Hathlool AL-Hathlool | KSA
Ministry of Works, Muni. &
Urban Planning
Essam Khalaf | Bahrain
Ministry of Transport and
Infrastructure
TBN | Republic of Turkiye

Road & Transport Authority
Dubai
Maitha bin Adai | UAE
SABER
Steven Nasser | UAE
Saudi Consulting Services
Tarek Al-Shawaf | Saudi Arabia
Sumitomo Mitsui Construction Co
Akio Kasuga | Japan
StreetsLA Streets California
Keith Mozee | USA
Swarco
Carl McCollum | Austria
Titan Freight Systems
Keith Wilson | USA

TraFFix Devices
Brent Kulp | USA
Troxler Electronic Laboratories, Inc
William F. Troxler, Jr. | USA
TTS Italia
Olga Landolfi | Italy
Uberbinder
Jonathan Davis | UK
University of Central Florida
Mohammed Abdel-Aty | USA
University of Zagreb
Andelko Scukanec | Croatia
Zydex Industries
Ajay Ranka | India

IRF COMMITTEES

The International Road Federation is a leading global advocate for the road sector, promoting best practices across all major policy areas. Through IRF Committees, knowledge-sharing programs, and capacity building initiatives, IRF members can reach out to a global audience of key governmental decision-makers and affect real change in road policies around the world. All members in good standing of IRF are eligible for induction in IRF regional & technical committees. For additional information, please contact advocacy@irf.global.

REGIONAL AFFAIRS

The mission of the regional committees are to identify the needs of regional members; provide guidance to staff in the development of regional events and advocacy initiatives; and provide a forum for intra- and inter-regional communications.

Africa

Chair: Magnus Quarshi, Institution of Engineers, Ghana

Latin America

Chair: Miguel Angel Salvia, Argentina Road Association, Argentina

Middle East & North Africa

Chair: Steven Nasser, SABER Investment Co., UAE

Central Asia

Chair: Mammadov Saleh Arshad, Azeravtoyol, Azerbaijan

TECHNICAL COMMITTEES

The mission of the IRF Technical Committees is to foster a network of practitioners to share knowledge and contribute to the development of improved best practices.

Asset Management

Chair: Dr. Mohamad Sayyar, Agile Assets, USA
Task Force "AI for Predictive Asset Management"

ITS

Chair: Dr. Robert Jaffe, ConSysTec, USA
Task Force "Road Adaptation to Autonomous Vehicles"
Task Force "ITS4Climate"

Sustainable Pavements

Chair: Prof. Kamil Kaloush, Arizona State University, USA

Procurement & Alternative Financing

Chair: Eric Cook, Senior PPP Advisor, USA

Road Safety

Chair: Philip Wijers, Sensys Gatso, the Netherlands

Vice-Chairs:

Eng. Sumaya Al Neyadi, Abu Dhabi ITC
Prof. Charles Adams, Transport Research Education Center Kumasi, Ghana
Taskforce on Workzone Safety
Taskforce on Certification of Passive Safety Devices
Taskforce on AI for Safer Road Mobility

Road User Charging

Chair: Nina Elter, EROAD, New Zealand

A GLOBAL FOOTPRINT

More information: www.IRF.global/events



IRF GLOBAL HEADQUARTERS & SECRETARIAT

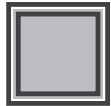


IRF REGIONAL OPERATIONS



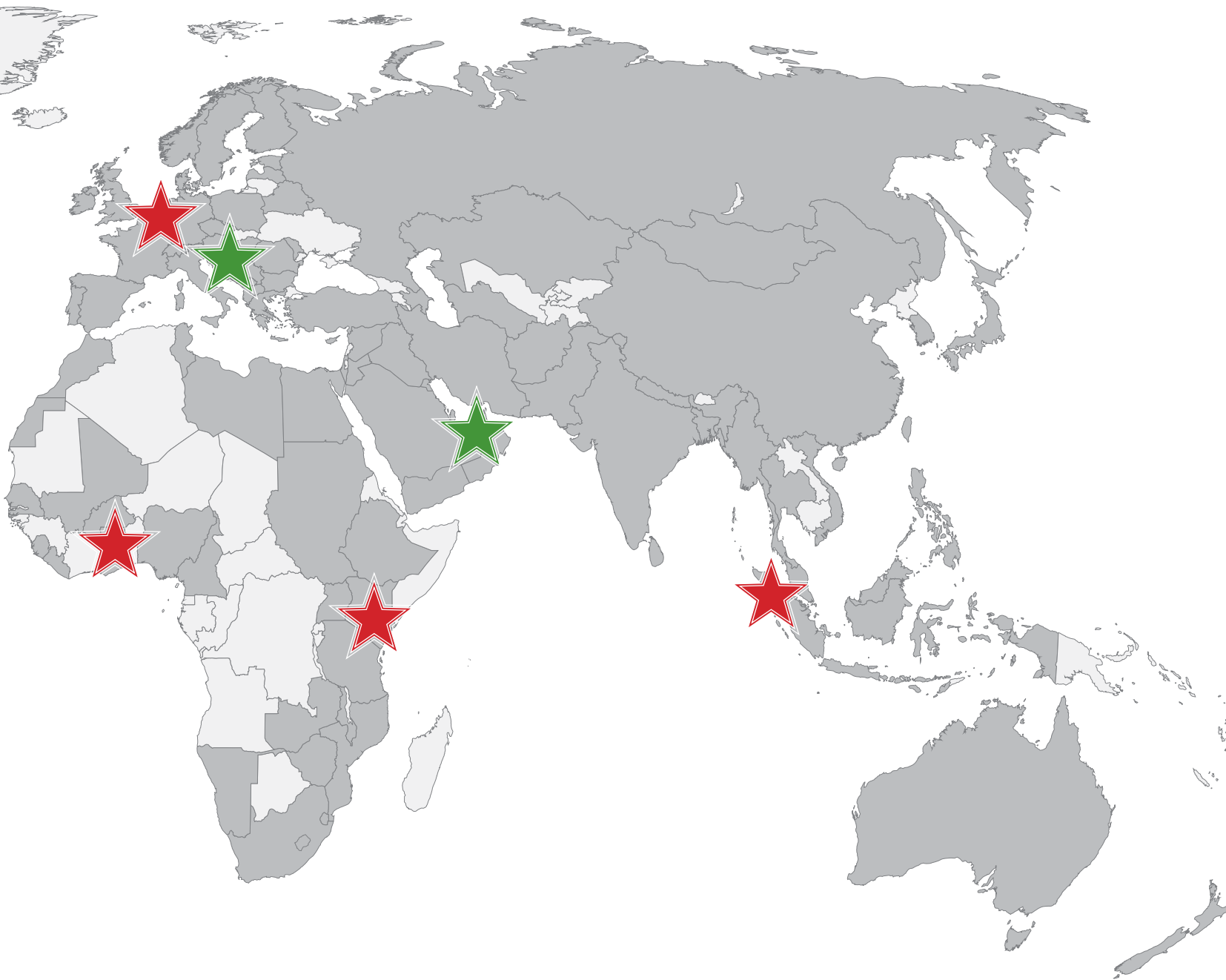
IRF TRAINING INSTITUTES

- ALEXANDRIA, VIRGINIA USA
- DUBAI, UAE
- ZAGREB, CROATIA



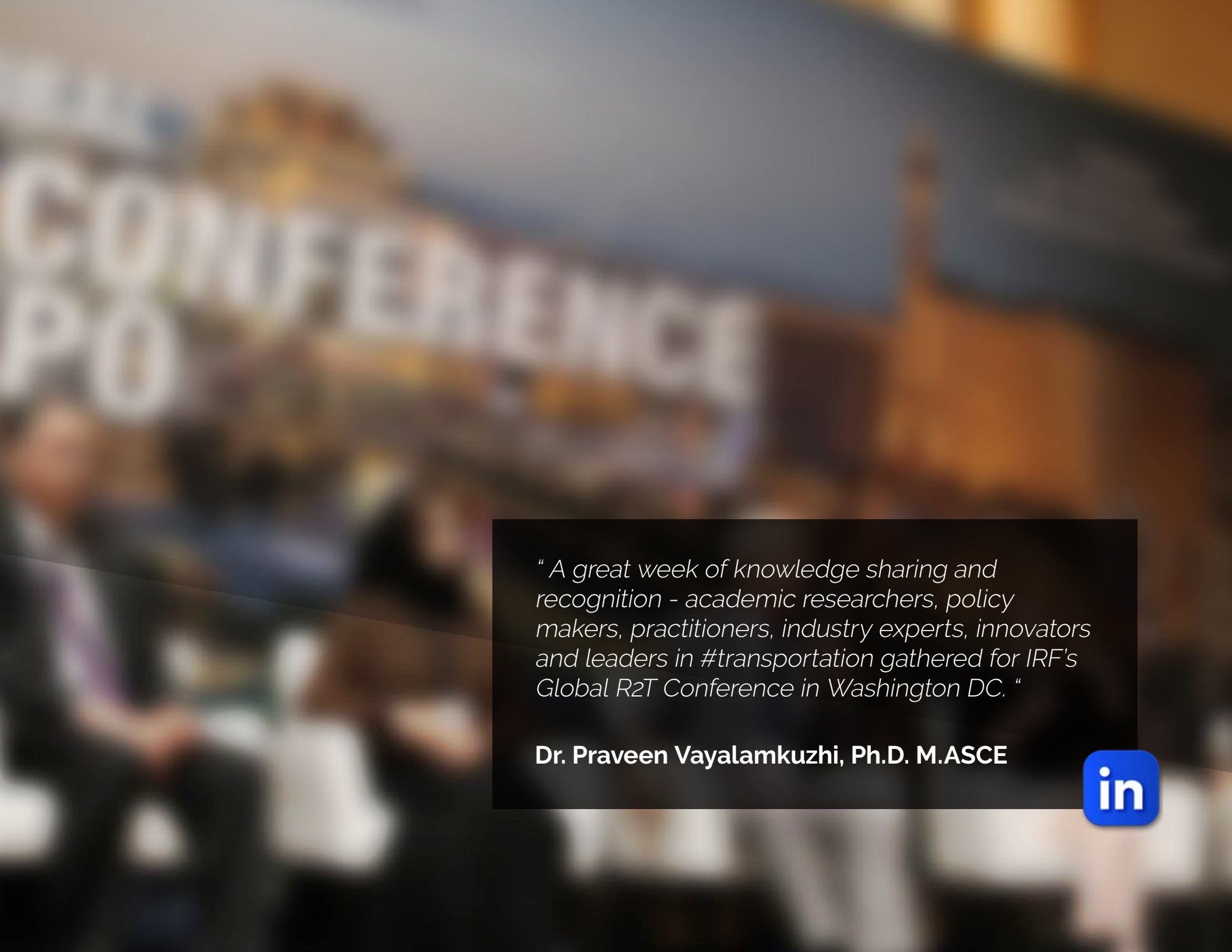
COUNTRIES WITH IRF REPRESENTATION





CONFERENCE HIGHLIGHTS





" A great week of knowledge sharing and recognition - academic researchers, policy makers, practitioners, industry experts, innovators and leaders in #transportation gathered for IRF's Global R2T Conference in Washington DC. "

Dr. Praveen Vayalamkuzhi, Ph.D. M.ASCE



IRF GLOBAL R2T CONFERENCE & EXHIBITION

LANDMARK IRF EVENT DRAWS GLOBAL STAKEHOLDERS TO WASHINGTON, D.C.

The 2022 IRF Global “Roads to Tomorrow” (R2T) Conference & Exhibition, a 4-day global summit and technology showcase held in Washington D.C. opened on November 1 with a tribute to His Excellency Eng. Abdullah A. Al-Mogbel, who after serving 12 years as the IRF Chairman, was appointed unanimously to the position of IRF Global Chairman Emeritus for Life, the first such appointment in the history of IRF.

This forward-looking conference brought together the industry's leading manufacturers and researchers with top decision makers from federal and local governments and multilateral institutions to discuss the role of innovation in tackling pressing infrastructure and mobility challenges. With more than 150 papers and presentations being delivered to the global audience, policy-makers and transportation stakeholders received an immense body of knowledge to be utilized in the months and years ahead.



IRF Global Chairman Dr. Bill Sowell noted “Our industry has received new mandates to go driverless, halve road fatalities by 2030, and achieve “net zero” emissions by 2050. This ambition can only be supported if our sector is united in its efforts. Under my chairmanship, IRF will continue nurturing partnerships with governments, development institutions, businesses, and academia around the world to make this vision a reality”.

“In just five years, we have established R2T as a landmark conference and meeting point where transport innovators talk to policy makers and, together, help shape the future of road mobility”, said C. Patrick Sankey, IRF President & CEO. “This accomplishment was made possible because, as a global federation, we have a proud history of bringing together decision-makers to share best practices and industry solutions.”

IRF REGIONAL CONGRESSES

SAFE, SMART, & RESILIENT ROAD NETWORKS IN ASIA-PACIFIC

Co-located with the 11th Malaysian Road Conference & Exhibition, the IRF Asia-Pacific Congress gathered more than 1,000 delegates from 20 countries. The Congress focused on the future of road infrastructure, resilience, sustainability, road safety and new digital technologies with the potential to transform the region's roads and mobility sector.

The event was headlined by high level speakers from thought leaders as well as IRF member organizations including the Asia Development Bank, Bechtel, AECOM, Lindsay, Lonrix and Emovis among others. In keeping with major economies in the region, Malaysia is prioritizing its transport connectivity through long term investment plans. At the end of the current plan, Malaysia will have added 2,800 kilometers of paved roads to improve connectivity in rural areas and between the country's states. In parallel, Malaysia reiterated during the Congress that it will introduce a multi-lane free flow toll system in Malaysia by 2025 to reduce congestion at toll plazas, representing a significant investment in next generation road mobility.



"A ROADMAP TO RESILIENT ROADS IN THE CARIBBEAN"

Established in 2012 as an answer to repeated calls for a specific event addressing the needs of transportation professionals across 30 countries and territories, IRF's flagship event in the Caribbean has become an essential gathering point for the region's top transportation decisionmakers and professionals, combining regional case studies and international insights.

IRF's regional Congress celebrated its 10th anniversary in Bridgetown, Barbados on June 7-10, 2022 with an exceptionally successful gathering of more than 250 professionals from 32 countries, including 11 Ministers of Transport, around the twin regional challenges of road safety and climate-resilient infrastructure. Solutions reviewed during the Congress included preventive diagnosis & risk assessment strategies, design & construction methods to enhance resilience and safety for all road users, opportunities for technology-led leapfrogging, innovative funding measures, as well as placing equity considerations at the center of transportation projects.



EFFECTIVE ROAD CHARGING STRATEGIES IN A REGION ON THE MOVE

Held in Belgrade, Serbia on October 5 & 6, and presented in partnership with the Transport Community, the IRF brought together the region's top road-tolling stakeholders from the public & private sectors for a forward-looking discussion on road charging needs and opportunities in the Balkans.

The Balkan region is witnessing a rapid uptake in next-generation road charging systems, such as free-flow tolling for Heavy Goods Vehicles. The technologies supporting these systems have made tremendous progress over the past decade, and today developing and implementing a national or regional solution presents fewer risks than was the case 10-15 years ago.

Nevertheless, delivering a successful road charging program frequently involves navigating through complex decisions, ranging from interoperability concerns to stakeholder engagement and cross-border enforcement, which road agencies are not always equipped to confront. Additionally, well designed road charging programs can help achieve a number of different policy objectives, such as safer roads and more environmentally efficient road transport.



In a related development, IRF Global has announced the launch of a new Taskforce on Road Pricing for Sustainability. Road pricing can play an important part in meeting transport decarbonization goals, as it is one of the technologies available right now to help make our system more efficient, user-friendly and sustainable.

Across the globe interest in the topic of road pricing has risen significantly over the past couple of years, in part due to a changing vehicle fleet that is putting additional pressure on the funding system in many countries around the world. The newly formed Taskforce will yield essential insights into how Road Pricing can help accelerate the pace to a more sustainable transportation system.

"In many cases the full potential of smart road pricing is not well understood by all stakeholders", notes Nina Elter, Chair of the IRF Global Committee on Road User Charging. "As a Committee, one of our goals is to highlight the different areas that can benefit from a road pricing system, providing real world examples, and encouraging thought leadership on the topic."

VISION ZERO BULGARIA



A landmark regional road safety conference convened by the International Road Federation (IRF) and the Bulgarian Branch Association Road Safety (BBARS) on June 1-2 2022 concluded with renewed calls for cross-border collaboration, institutional capacity strengthening, and investments in life-saving innovations to tackle the road traffic injury crisis that is responsible for 6,500 deaths annually in the region.

The event was keynoted by Bulgarian President H.E. Rumen Radev as well as senior officials from Balkan road agencies and intergovernmental organizations, marking a notable shift in ownership of the problem, as countries around the world increase the pace of efforts to achieve the targets set within the 2nd United Nations Decade of Action for Road Safety. The conference was also designed to coincide with the International Children's Day, and contributions addressed the important role of planning cities and streets that protect the most vulnerable segments of our societies.

Opening the event, Philip Wijers, Chairman of the IRF Committee on Road Safety noted "Your countries are intimately familiar with the magnitude of this challenge, and your governments have been vocal in their support

for achieving "Vision Zero" road deaths and serious injuries. But, make no mistake, we still have a difficult road ahead of us, and should not fear honest and transparent dialogue about what these will cost to implement politically and financially".

A "Vision Zero" approach to road safety management is based on the foundation that no death or serious injury is acceptable on roads. In fulfilling this aspiration, all parts of the transport system must work together to minimize the risk and consequences of driver error.

"As a global broker of knowledge, IRF is already actively working with the region's main transport stakeholders by showcasing cost-effective programs, sharing good practices with decision-makers and training front-line personnel on diagnosing and addressing engineering weaknesses", noted Brendan Halleman, IRF Vice President for Europe & Central Asia. "Our cycle of Vision Zero conferences takes this cooperation a step further by providing new insights and field-test solutions to sustainably reduce their road traffic injuries. Every day, IRF member organizations effect real change by designing solutions - from low-cost road markings to speed enforcement cameras - that help to protect people from death or injuries.



75
YEARS



IRF
GLOBAL

IRF GLOBAL CELEBRATES 75 YEARS OF SERVICE TO THE TRANSPORT INDUSTRY

2023 marks 75 years since the International Road Federation (IRF Global) was established in Washington DC to assist nations around the world in the reconstruction of their infrastructure after the second World War. Today, IRF Global is a leading organization for road builders, service providers, transportation institutes, and government agencies working together to deliver well-planned, safe, accessible and environmentally sound road networks for the benefit of all.

IRF Global's 75th anniversary will see highlights of our work featured throughout the year, culminating with the "75th Anniversary Edition" IRF Global R2T Conference & Exhibition, held in Phoenix AZ on November 14-17, 2023.

IRF RELEASES 2023 CALENDAR OF EVENTS

IRF will once again showcase its global convening power with major regional conferences in North America, Sub-Saharan Africa, Central Europe, the Middle East and the Caribbean in 2023.

Preparations are currently underway for major regional & thematic events, which will culminate with the 5th edition of IRF's flagship "Roads to Tomorrow" (R2T) conference in Phoenix, Arizona in November 2023. Two "Vision Zero" conferences, one each in the Balkans and the Middle East will seek to harness regional road safety efforts around sound road design and management practices. Finally, two regional conferences, held in Ghana and the Bahamas respectively, will endeavor to promote regional knowledge platforms supporting investments in sustainable and resilient road infrastructure.

Combined, these events will offer IRF members and road practitioners everywhere a valuable opportunity to present their work, develop key skillsets and expand their professional network. For the host countries, they also represent a chance to showcase national achievements and support the knowledge-sharing goals of the IRF, as the organization enters its 75th year of existence.

3rd IRF Africa Regional Congress

April 25-27, 2023
Accra, Ghana

Vision Zero Conference & Exhibition - Balkans

May 15-16, 2023
Belgrade, Serbia

IRF Caribbean Regional Conference

June 6-9, 2023
Nassau, the Bahamas

Vision Zero Conference & Exhibition - GCC

September 11-12, 2023
Abu Dhabi, UAE

IRF Global R2T Conference & Exhibition

November 15-17 2023
Phoenix AZ, USA

On the Road to LA2025

MEET

Benefit from exceptional networking opportunities & access to government leaders

LEARN

Stay abreast of new technologies and best practices across 6 themes and 80 sessions

EXPERIENCE

Enjoy the unique appeal of a world-class city through demonstrations & technical visits



IRF
GLOBAL

19th IRF WORLD MEETING NOVEMBER 2025

www.IRF.global

THE INDUSTRY'S MOST TRUSTED BRAND IN CONTINUING EDUCATION





"A very informative, highly technical and relevant course. I really want to thank all of you on my behalf as well as on behalf of my agency"

Eng. Ibrahim Shallal, Dubai RTA

A LEADING PROVIDER OF CONTINUING EDUCATION SERVICES

For 75 years, an essential part of IRF's mission has been the organization and delivery of continuing education services that help build the skills of road professionals and contribute to the dissemination of knowledge and expertise worldwide.

IRF courses are delivered by the engineers, constructors, materials suppliers, and working practitioners in the road building industry providing the latest practices and insights on best practices and the current trends in our market. The courses cover the whole of the project lifecycle from planning and financing through design and construction, asset management and highway operations.

At a time when many transportation professionals remain unable to travel, IRF has redoubled efforts since 2020 to develop eLearning resources and online training programs which allow road and transportation professionals to access a global pool of knowledge resources from the safety of their home or office.

IRF's suite of online training is designed with the same care and rigorous standards that are hallmarks of IRF's executive education programs. The specific learning outcomes are communicated ahead of each course, and reviewed again with delegates during the first session.

Prior to the start of every course, delegates are invited to complete a self-assessment survey that allows the instructors to understand the baseline knowledge and make any necessary adjustments to the coursework. This pre-course survey is also an opportunity for delegate to highlight specific work problems / situations they are encountering which they would like the course to include. At the end of the course, delegates are also required to take part in an online knowledge examination administered by the IRF taking the form of multiple-choice questions based on the course content and required reading.



Approved Training Provider

IRF Global is recognized as an approved training provider by the Chartered Institution of Highways and Transportation (CIHT), a respected professional body that provides transportation professionals with recognition, support and business insights to accelerate their careers and influence the future of the sector.

CIHT Members now enjoy the same preferential rates as IRF Members

For more information, please visit <https://www.ciht.org.uk>

DEVELOPING SKILLS FOR SHARED PROSPERITY

PATHWAY PROGRAM FOR DUBAI'S YOUNG PROFESSIONALS



The "Pathway Program for Traffic & Road Young Professionals" is a skills- and knowledge-based professional training initiative specially designed by IRF and Arizona State University (ASU) to equip young professionals in Dubai with a practical learning experience across seven key modules.

- Highway Planning & Project Management
- Road Asset Management
- Traffic Engineering
- ITS & New Mobility
- Road Safety Engineering
- Sustainable Pavement Design
- Procurement & Project Finance

Starting in November 2022, leading IRF & ASU specialists selected by IRF & ASU are delivering in-person and online training covering the international state of the art in each of these areas. Each module represents 10 hours of live content, combining live lectures, interactive case studies and group exercises. Each module concludes with an open-book knowledge check ensuring the key course fundamentals have been acquired.

CONSTRUCTION SUPERVISION IN BAHRAIN

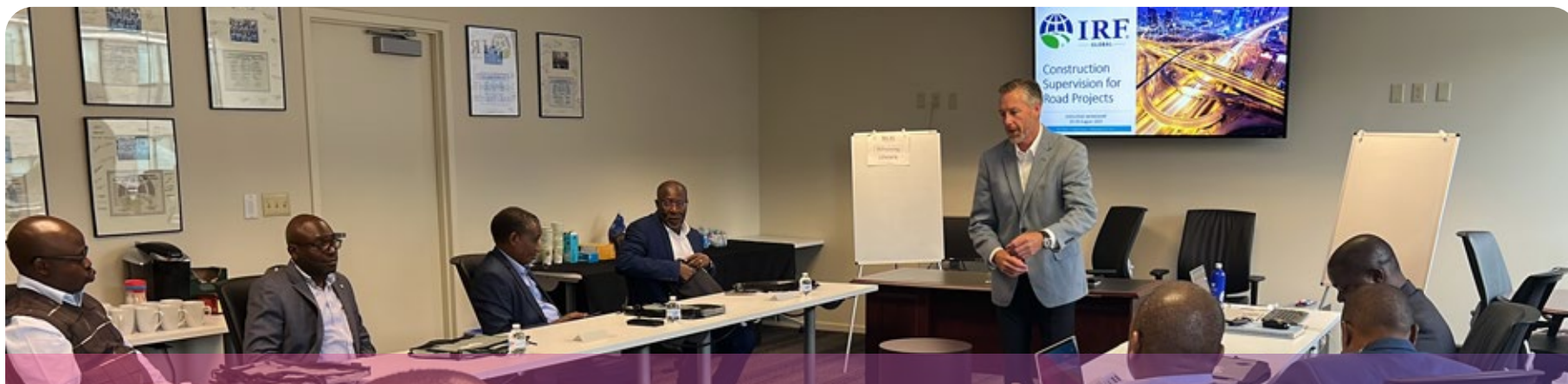


IRF has collaborated with Bahrain's Ministry of Public Works to deliver a bespoke training program on Road Construction Supervision which took place in Manama in October 2022, at a time when the Kingdom is ramping up its highway infrastructure programs.

The 5-day course journeyed through project delivery as experienced from the highway engineer's view working in today's modern road agency. Attendees learned and discussed the approaches, techniques and theories associated with the project planning process, highway design management, and construction delivery.

The key learning objectives for this seminar were to:

- Understand effective construction project management techniques for effective project delivery
- Build professional skills for project planning and economic appraising
- Understand contract models and procurement methods as well as techniques on how to implement them
- Develop construction management and quality assurance skills to ensure effective construction control and contract administration



IRF DELIVERS BESPOKE PROGRAM FOR AFRICAN ROAD EXECUTIVES

Senior road agency executives from the African countries of Kenya, Eswatani and Tanzania took part in a new cycle of highway engineering and capacity review programs led by the IRF and designed to strengthen the public sector's ability to effectively design and manage road construction projects.

A total of 50 delegates joined one of three workshops organized in July & August 2022 at the IRF Global Training Institute in Alexandria, Virginia. The program covered best practices in procurement and contract management, construction supervision, and financial management through classroom training, role-playing exercises and field visits to nearby road projects.

The course was set against a backdrop of renewed road construction projects across the African continent. These road projects are expected to boost regional integration by reducing transit times, facilitating trade and cross-border movement of people, opening up access to tourism, and stimulating the economy.

The curriculum was designed by IRF as a bespoke technical assistance program, focusing learnings on methods that can be applied "as is" in the field by each of the three participating agencies. A senior advisor to the IRF, Eric Cook noted "Our goal was to provide each agency with a workshop

experience resulting in practical applications they can quickly employ into resolving now some of the real issues they are facing in delivering their road infrastructure programs. We incorporated the learning methods used by top executive MBA schools that integrate the academic study of business theory with the student's workplace and professional life".

Notable outputs of the course included co-developing a project plan to transition legacy construction document control systems to an integrated virtual project office, identifying project- and organizational-level performance metrics, and preparing risk allocation and management strategies. Underpinning these practices, the course also reviewed effective mechanisms to improve construction industry relations and leverage industry know-how, by transitioning programmatic road maintenance from agency to private sector resources, implementing protocols to review contractor design submittals as well as reviewing ways to reduce the current accounts payable balance.

Magid Elabyad, Senior Vice President for International Programs noted "this new program represents a step change in the technical assistance services IRF provides government agencies worldwide. Each of the courses focused on addressing problems and finding solutions applicable across the entire project lifecycle, and we are working with the participating agencies to ensure they lead to real changes on the ground".

TRAINING PROGRAMS DELIVERED IN 2022

IRF Road Scholar Program

January 5-13, 2022
Washington DC, USA

Practical Data Science for Roadway Professionals (Online)

February 1 - 24, 2022

Environmental, Social, and Governance (ESG) Impact in Road Infrastructure (Online)

February 14 - 24, 2022

Project Finance & PPPs (Online)

Feb 28 - March 10, 2022

Bridge Management & Inspection (Online)

March 7-17, 2022

Digital Twins for Road Infrastructure (Online)

March 8 - 24, 2022

Road Safety Audits: From Concept to Results (Online)

March 14 - 24, 2022

Pavement Management (Online)

March 14- 30, 2022

Roadway Drainage and 2D Flood Modeling Workshop

March 21 - 25, 2022
Amsterdam, Netherlands

Roadway Drainage and 2D Flood Modeling Workshop II

March 28- April 1, 2022
Amsterdam, Netherlands



IRF Workshops

@ Intertraffic Amsterdam
March 29 - April 1, 2022
Amsterdam, Netherlands

Advances in Flexible Pavement Design & Construction (Online)

April 5 - 28, 2022

Road Traffic & Environment Management (Online)

May 9-19, 2022

Road Infrastructure Asset Management

May 16-20, 2022
Brussels, Belgium

Collision Analysis & Road Safety Performance (Online)

May 23-31, 2022

Vision Zero Bulgaria

June 1-2, 2022
Sophia, Bulgaria

IRF Caribbean Regional Conference

June 7-10, 2022
Bridgetown, Barbados

Performance-based Contracts for Preserving Road Assets

June 13-22, 2022
Orlando, FL USA

Bridge Management & Inspection

June 20-24, 2022
Washington DC, USA

Public-Private Partnerships - Foundations - CP3P

Certification (Online)
July 11-15, 2022

IRF Executive Seminar on Organizational Leadership & Management for Transport Professionals

July 18- August 5, 2022
Washington DC, USA

Roadway Work Zone Safety

July 19-22, 2022
Washington, DC USA

Implementing Pavement Management Systems

July 25-29, 2022
Porto, Portugal

Construction Supervision for Road Projects

August 8-12, 2022
Washington, DC USA

Public-Private Partnerships - Foundations - CP3P Cert.

August 22-26, 2022
Washington, DC USA

Pavement Management (Online)

September 5-28, 2022

Practical Data Science for Roadway Professionals (Online)

September 6-29, 2022

Construction Supervision for Road Projects

September 12-16, 2022
Brussels, Belgium

Road Network Safety Management

September 19-23, 2022
Brussels, Belgium

Effective Road Charging Strategies in a Region on the Move

October 5-6, 2022
Belgrade, Serbia

IRF Performance-Based Contracts

October 10-19, 2022
Orlando, FL USA

IRF Asia Pacific Regional Congress

October 11-13, 2022
Kuala Lumpur, Malaysia

Sustainable Pavement Design

October 17-21, 2022
Porto, Portugal

IRF R2T Global Conference

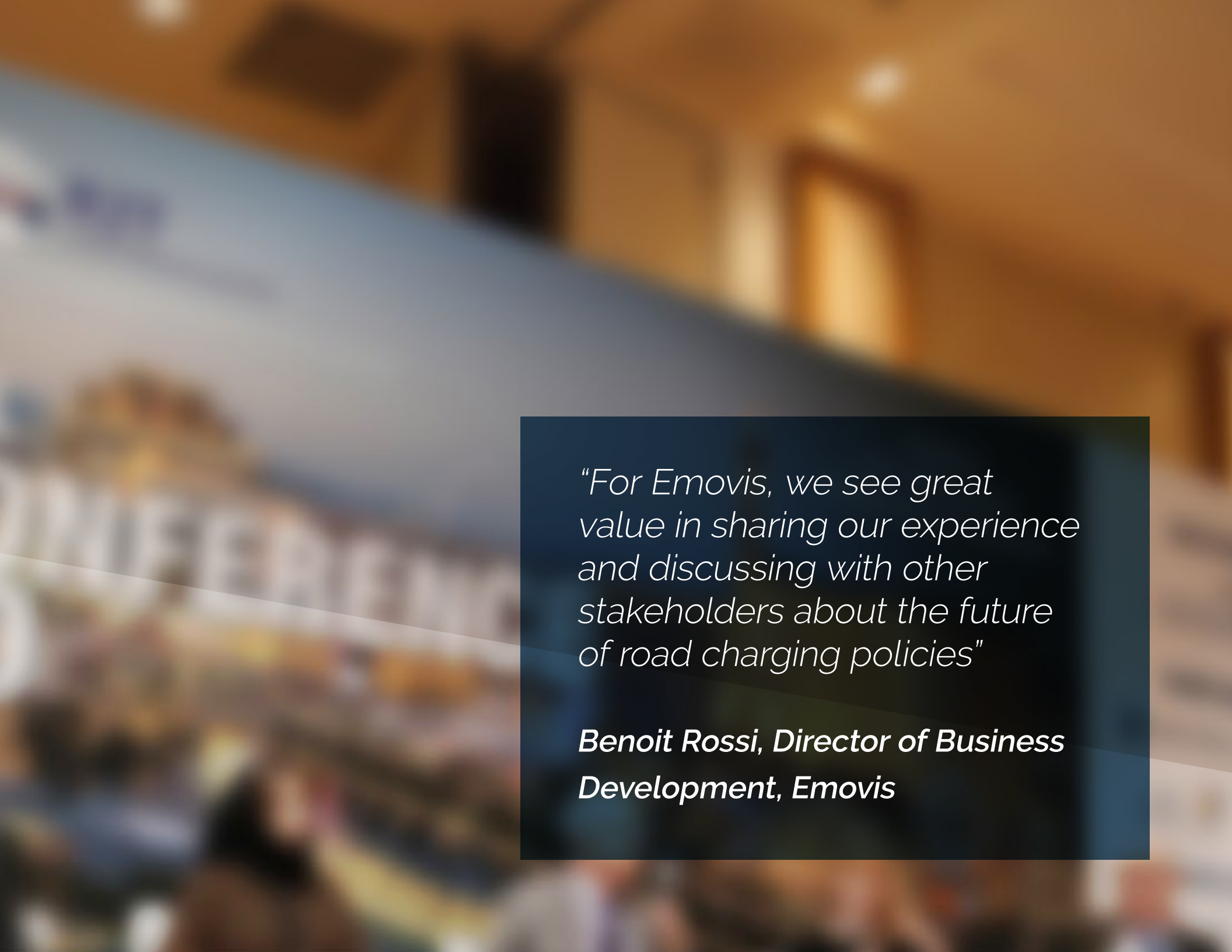
October 31-November 3, 2022
Washington DC, USA

IRF Performance-Based Contracts

November 7-16, 2022
Rotterdam, Netherlands

THE WORLD'S LEADING ROAD ADVOCATE





“For Emovis, we see great value in sharing our experience and discussing with other stakeholders about the future of road charging policies”

Benoit Rossi, Director of Business Development, Emovis

RAISING WORKZONE SAFETY STANDARDS GLOBALLY

The IRF is at the forefront of global efforts to raise safe work zone management practices.

Work zones are a well-recognized potential hazard on our roads and are a particularly serious safety concern in the developing world, where an abundance of road rehabilitation projects have, by and large, not been accompanied by commensurate investments to foster a safety culture on road construction sites.

Similar to the rest of the road network, work zones need to be designed and managed so that the potential for injury is eliminated or significantly reduced. All processes associated with roadworks must be undertaken using Safe System principles. By contrast, construction workers and road users are all put in danger whenever risks are not adequately assessed and addressed.

Opening an IRF training event in Dubai, lead IRF instructor Chip Darius noted that "Improvised and inconsistent work zones cause confusion, reduce reaction time, and increase risk. Consistency is key to safer work zones. Standards are the key to consistency. Training gives knowledge of the standards. The system works best when trained workers adhere to standards for safer work zones."

Building on this report as well as other available resources and industry know-how, IRF has now scaled up its recent advocacy and capacity-

building initiatives through a dedicated Taskforce to ensure more government agencies have access to state-of-the-art processes and technologies.



IRF GLOBAL – UNITAR ROAD SAFETY PARTNERSHIP

The global partnership between the International Road Federation and the United Nations Institute for Training & Research (UNITAR) has entered a third year with stepped up training & awareness-building activities around the world.

Using the newly developed "Management Practices for Safer Roads" toolkit, IRF Global has developed interactive master classes guiding participants through the systematic steps required to prioritize and successfully implement road safety treatments. Designed by UNITAR, the toolkit is based on the premise that achieving road safety targets requires, among others, improving existing road infrastructure for the benefit of all road users, especially the most vulnerable.

NEXT GENERATION ROAD SCANNING SYSTEMS

On May 20, the International Road Federation concluded a one-week global benchmarking course on preventive management of road assets with a field overview of next-generation road scanning & survey systems.

IRF Member XenomatiX hosted today a delegation comprising twenty delegates from the Saudi Ministry of Transport & Logistic Services, the governmental agency tasked with developing Saudi Arabia's transportation system and making the Kingdom a global logistics center.

The tour began at the company's headquarter in Leuven, Belgium where CEO Filip Geuens and the Application Engineering Team presented XenomatiX' road lidar technology and its millimeter-accurate pavement measurements. The presentations included a live test drive in a demonstration vehicle followed by an overview of the company's flagship GIS system RoadViewer, a user-friendly "digital twin" application.

The visit also includes exchanges with representatives of the Belgian Road Research Center (BRRC), an institute that has built a solid reputation in road design, construction, maintenance, safety and mobility over its fifty-year existence. BRRC and XenomatiX established a partnership

in 2018 focused on developing innovative and affordable solutions for performant and cost-effective road management.



IRF WHITE PAPER ON INTEGRATED ASSET MANAGEMENT

An integrated asset management workflow that coordinates maintenance management and structures management functions improves the operational efficiency of all structures-related fieldwork, according to a new IRF White Paper released in February 2022. Asset management systems that successfully integrate these processes provides numerous benefits by meeting the needs of the relevant business units, the agency, and, ultimately, the traveling public.

According to the White Paper, bridge and maintenance operations represent an enormous part of the asset value of transportation agencies.

Inspecting, maintaining, and managing bridges is crucial to public safety and regulatory compliance. These combined tasks require the efforts of multiple teams as well as a tremendous amount of time and money.

Yet more often than not, time and money are wasted when communication breaks down between the "bridge side" and the "maintenance side" of operations. This disconnect can cause inconsistent data across teams, delayed bridge repairs, loss of operational efficiency, loss of bridge service life and network performance, and—most importantly—higher public safety risks.

IRF AWARDS: RECOGNIZING EXCELLENCE

2022 IRF MAN OF THE YEAR



2022 IRF Man of the Year: Randell H. Iwasaki P.E., M. ASCE

Randell H. Iwasaki P.E., M. ASCE, an internationally recognized transportation policy-maker and industry leader, has been nominated to receive the International Road Federation's highest individual recognition on the opening day of the IRF Global R2T Conference & Exhibition in Washington DC.

Established in 1951, IRF's Man (or Woman) of the Year award recognizes eminent public, private and education sector professionals with an outstanding track record of leadership and commitment to the road transport industry. Over the years, the award has distinguished some of the world's most influential transport leaders for their work in the field of advocacy, policy, research and educational programs in support of better, safer, and more sustainable road networks globally.

Mr. Iwasaki is being recognized for a remark-

able career at CALTRANS, Contra Costa Transportation Authority, and Amazon Web Services, where his transformational leadership has resulted in groundbreaking innovations and advanced the state of the art in safer and more sustainable mobility solutions.

According to IRF Chairman Dr. Bill Sowell, "This accolade crowns an exceptional career and recognizes Iwasaki's important contribution as a thought leader with a demonstrated history of delivering forward-looking programs in an increasingly complex mobility environment."

Acknowledging the presentation of the Award, Iwasaki stated "Thank you to the IRF team, and to the men and women who volunteer time focusing on road safety around the world. I am truly honored by this recognition, and want to thank everyone who helped me get here."

IRF Find a Way Award



In 2022, IRF presented its prestigious road safety accolade - known as the 'Find a Way' award - to four meritorious agencies designated by IRF Members: the National Company for Road Infrastructure Administration (Romania), the Secretaria de Estado de Transporte e Mobilidade do Distrito Federal (Brazil), the National Road Traffic Authority of the Dominican Republic, and the City of Amsterdam.

The Award was instituted as part of the United Nations Decade of Action for Road Safety in recognition of the value of political leadership in driving road traffic injury reduction strategies. Every year, the Award distinguishes outstanding commitment to safer roads by public agencies that fully embody the values of the "Safe System" approach.



2022 GRAA WINNERS

GLOBAL ROAD ACHIEVEMENT AWARDS (GRAA)

Instituted in 2000, the Awards have distinguished more than 200 programs, projects and technologies from around the world. This year, the IRF honors 11 projects from around the world, each leading the way in innovation across major road & mobility disciplines. The selection was made by an international panel of senior road development specialists.

According to IRF Global Chairman Dr. Bill Sowell “the winners of the 2022 IRF Global Road Achievement Awards are an asset to an industry that is constantly investing in new solutions to deliver gains and sustainability advances that benefit everyone”.

The winning projects this year range from a 130-km expressway traversing a national park in Guizhou Province, China, with a minimized environmental footprint, to a sophisticated multi-modal travel demand tool that uses AI and Big Data analytics to support decision-making processes in the Emirate of Abu Dhabi.

ASSET PRESERVATION AND MAINTENANCE MANAGEMENT

New Pavement Technology, Materials & Green Energy Smart IoT Active Safety Operation Management

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SAFETY

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EZ GROUP Inc

TECHNOLOGY, EQUIPMENT & MANUFACTURING

Development of a New Asphalt Binder Test Method (ABT)
US Federal Highway Administration

TRAFFIC MANAGEMENT AND INTELLIGENT TRANSPORTATION SYSTEMS

San Francisco Oakland Bay Bridge Metering Lights System Upgrade
Parsons Transportation Group

URBAN PLANNING AND MOBILITY

Strategic Transportation Evaluation and Assessment Model (STEAM+)
Integrated Transport Center (ITC)

PREPARING THE NEXT GENERATION



A blurred background image showing several people in a meeting or conference setting. The focus is on the text overlay, which is a quote from Taylor Lochrane.

*"I volunteer so
others may have the
same experience."*

Taylor LOCHRANE

IRF Fellow-Class of 2010, University of Central Florida

*Current Position: Deputy Director and Chief Scientist, Highly Automated Systems
Safety Center of Excellence, USDOT*

FELLOWS TEAM UP DURING 10-DAY ANNUAL ROAD SCHOLAR PROGRAM FOR PROFESSIONAL DEVELOPMENT AND NETWORKING VISITS WITH INDUSTRY ORGANIZATIONS

As one of ten students who either applied or were nominated to participate in the IRF Road Scholar Program 2021-22 class of Fellows, it took me some time before I realized the enormous and positive significance of this experience.

2020 and 2021 challenged the world with the COVID-19 pandemic, and the IRF Road Scholar Program was not immune to one of the largest disruptions to everyday life. As a result, this required a change of plans for both the 2021 and 2022 classes of IRF Fellows. Those of us in the 2021 class started with an online videoconference format, where we first met each other in a virtual environment and participated of presentations by IRF leaders and partners. Due to the small size of both classes, and

the interest in providing the full experience to all IRF fellows, the 2021 class joined the 2022 class as part of the Road Scholar Program events hosted in Washington, DC, on January 5-13, 2022.

During the Road Scholar Program, we were delighted by presentations from notable road transportation sector leaders, including Dr. Gummada Murthy, the Director of the AASHTO Committee on System Management and Operations; Michael Sakata, President of the Maryland Transportation Builders and Materials Association, who provided us with immense advice on leadership and the latest news on transportation policy and public investments in the United States.

TRB Annual Meeting, and the final exam.

In the end, the self-fulfilling prophecy for success occurred for Team 2, The Winners, who indeed emerged victorious after a heated final exam on our learning of the IRF Road Scholar Program, in which only 1 out of the 50 required answers decided the fate of the competition!

During the morning of the last day, January 13, we had our graduation ceremony, and received a farewell message from Dr. Kamil Kaloush, congratulating us for being part of the program, for our achievements and aspirations in our careers, and some parting words of wisdom.

I want to personally thank Chris Sanders and Lindsay Transportation Solutions for sponsoring my participation. We also thank the other sponsors: the Japan Roads Association, the Berger Charitable Foundation, VSS International, Troxler, and the IRF Fellows Alumni Association.

The 2021-22 IRF Road Scholar Program brought together a cadre of international rising stars and made them great friends, opening opportunities for the most amazing partnerships in the road engineering industry!

**Alexander Molano Santiago,
BSCE, MSCE Candidate**

University of Puerto Rico at Mayagüez



The class was divided into two competing teams, the Pavers and the Winners, each consisting of both 2021 and 2022 Fellows. Throughout the fellowship program, we amassed points through team-building exercises, the scavenger hunt, the bridge competition, demonstrating our responsibility and punctuality throughout the program, participation in select events and exhibitions throughout the

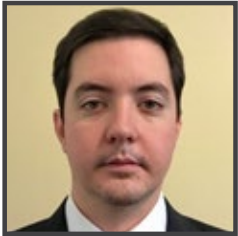
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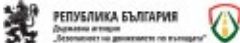


ITS Japan



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	Korea Road Association	Technological University of Panama	
	Malaysian Institute of Road Safety Research	Together for Safer Roads	
	MBUFA	Turkish Asphalt Contractors Association	
	Maryland Transportation Builders & Materials Association	Transport Community	
	Nigerian Institution of Highway Engineers	World Roads Association (PIARC)	
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