



# 16<sup>TH</sup> REAAA CONFERENCE

## SHAPING THE FUTURE OF ROAD ENGINEERING WITH ADVANCED TECHNOLOGIES

Manila, Philippines

September 13-15, 2021

# 16<sup>TH</sup> REAAA CONFERENCE PROGRAM



DATE / DAY	PH TIME	ACTIVITY
September 10, 2021 (Friday)	10:00-12:00 PM	Pavement Technology Committee Meeting
	1:00-3:00 PM	20 <sup>th</sup> REAAA Young Engineers and Professionals Meeting
September 13, 2021 (Monday)	8:30-9:00 AM	Virtual Exhibit Opening
	9:00 AM-12:00 PM	<p>16<sup>th</sup> REAAA Conference Opening Ceremony</p> <ul style="list-style-type: none"> <li>Welcome Remarks <ul style="list-style-type: none"> <li>➤ REAP President, MARIA CATALINA ESTAMO CABRAL, PH.D.</li> <li>➤ REAAA Philippine Chapter President, JAIME A. PACANAN</li> </ul> </li> <li>Opening Remarks – REAAA President, ROMEO S. MOMO</li> <li>Introduction of Keynote Speaker – REAP President, MARIA CATALINA ESTAMO CABRAL, PH.D.</li> <li>Keynote Speaker – DPWH Secretary MARK A. VILLAR</li> <li>Cultural Presentations</li> <li>Conferment of REAAA Honorary Membership Awards</li> </ul>
	1:00-5:00 PM	<p>8<sup>th</sup> REAAA Business Forum</p> <ul style="list-style-type: none"> <li>Opening Remarks – LYDWINA MARCHIELA WARDHANI</li> <li>Connectivity in Clark and New Clark City – SECRETARY VIVENCIO B. DIZON</li> <li>Future technology of asphalt pavement: Materials, Equipment and IOT based management technology – DR. KI HOON MOON</li> <li>Investment potential in economic zones – BGEN. CHARITO B. PLAZA, MNSA, PH.D.</li> <li>Impact of COVID-19 on transport and construction: now and tomorrow – DATO' IR. DR. DENNIS GANENDRA</li> <li>New Manila International Airport – RAOUL EDUARDO C. ROMULO</li> <li>Mobilizing private investment through asset recycle program for Indonesia Infrastructure Development – IR. HADJAR SETI ADJI, MEngSc</li> <li>Integrating transport resilience into REAAA strategic initiatives – CAROLINE EVANS</li> <li>Build Build Build: Building and sustaining the long-term growth of the Philippines – MARIA CATALINA ESTAMO CABRAL, PH.D</li> </ul>
	5:00-6:00 PM	Technical Virtual Tour – Road Trip Pilipinas

# 16<sup>TH</sup> REAAA CONFERENCE PROGRAM



DATE / DAY	PH TIME	ACTIVITY	
September 14, 2021 (Tuesday)	8:00 AM-12:00 PM	Technical Session (Conference Hall A)	Technical Session (Conference Hall B)
	1:00-5:00 PM	Technical Session (Conference Hall A)	Technical Session (Conference Hall B)
September 15, 2021 (Wednesday)	8:00 AM-12:00 PM	115th REAAA Council Meeting 16th General Meeting 116th REAAA Council Meeting	
	1:00-4:00 PM	16th REAAA Conference Closing Ceremony <ul style="list-style-type: none"> <li>▪ Cultural presentations</li> <li>▪ Closing remarks – ROMEO S. MOMO</li> <li>▪ 2nd Mino Best Project Award</li> <li>▪ Katahira Award</li> <li>▪ Hwang Award</li> <li>▪ Handing-over of REAAA Presidency</li> <li>▪ Inaugural Speech by the new REAAA President – DR. SUNG HWAN KIM</li> <li>▪ Member countries performances</li> </ul>	

# MAIN SPEAKERS



**SUNG-HWAN KIM, PH.D.**  
Vice Chairman, Kunhwa  
Engineering & Consulting Co.



**JAIME A. PACANAN**  
REAAA Philippine Chapter  
President



**ROMEO S. MOMO**  
REAAA President



**MARIA CATALINA ESTAMO  
CABRAL, PH.D.**  
REAP President



**SECRETARY MARK A. VILLAR**  
Department of Public Works and  
Highways





# 8<sup>TH</sup> REAAA BUSINESS FORUM

September 13, 2021 (PH Time: 1:00-5:00 PM)



## **8<sup>TH</sup> REAAA BUSINESS FORUM**

REAAA Business Forums are designed to facilitate business-to-business collaboration pertaining to infrastructure projects and other related sectors. They also aim to enhance the REAAA membership from business sectors, institutions or companies. The forums are conducted in conjunction with on-going REAAA Council meeting or conferences.

Since the establishment of the REAAA Business Forum in 2014, REAAA has become the most dynamic road association in Asia and Australasia, with individual and institutional membership increasing every year.

The Business Forums aim to create a forum for businesses to obtain information, establish connections, enter into negotiations, and encourage more cooperation and collaboration between business entities from different countries in the region.



# 8<sup>TH</sup> REAAA BUSINESS FORUM PROGRAM

September 13, 2021 (PH Time: 1:00-5:00 PM)

PH TIME	TOPIC	SPEAKER
1:00-1:10	OPENING REMARKS	<b>LYDWINA MARCHIELA WARDHANI</b> <i>Coordinator of REAAA Business Forum</i>
1:10-1:30	CONNECTIVITY IN CLARK AND NEW CLARK CITY	<b>SECRETARY VIVENCIO B. DIZON</b> <i>President and Chief Executive Officer Bases Conversion and Development Authority</i>
1:30-1:50	FUTURE TECHNOLOGY OF ASPHALT PAVEMENTS: MATERIALS, EQUIPMENT AND IOT BASED MANAGEMENT TECHNOLOGY	<b>DR. KI HOON MOON</b> <i>R&amp;D Planning Team, Senior Researcher Korea Expressway Corporation Research Institute</i>
1:50-2:10	INVESTMENT POTENTIAL IN ECONOMIC ZONES	<b>BGEN. CHARITO B. PLAZA, MNSA, PH.D.</b> <i>Director General Philippine Economic Zone Authority</i>
2:10-2:30	IMPACT OF COVID-19 ON TRANSPORT AND CONSTRUCTION: NOW AND TOMORROW	<b>DATO' IR. DR. DENNIS GANENDRA</b> <i>Chief Executive Officer Minconsult Sdn Bhd</i>
2:30-2:50	NEW MANILA INTERNATIONAL AIRPORT	<b>RAOUL EDUARDO C. ROMULO</b> <i>Chief Finance Officer / Treasury Head San Miguel Holdings Corporation</i>



# 8<sup>TH</sup> REAAA BUSINESS FORUM PROGRAM

September 13, 2021 (PH Time: 1:00-5:00 PM)

PH TIME	TOPIC	SPEAKER
2:50-3:10	MOBILIZING PRIVATE INVESTMENT THROUGH ASSET RECYCLE PROGRAM FOR INDONESIA INFRASTRUCTURE DEVELOPMENT	<b>IR. HADJAR SETI ADJI MEngSc</b> <i>Director of HCM &amp; System Development PT Waskita Karya (Persero) Tbk</i>
3:10-3:30	INTEGRATING TRANSPORT RESILIENCE INTO REAAA STRATEGIC INITIATIVES	<b>CAROLINE EVANS</b> <i>Chair, PIARC Committee 1.4: Climate Change and Resilience of Road Networks</i>
3:30-3:50	BUILD BUILD BUILD: BUILDING AND SUSTAINING THE LONG-TERM GROWTH OF THE PHILIPPINES	<b>MARIA CATALINA ESTAMO CABRAL, PH.D.</b> <i>Undersecretary for Information Management, Planning and PPP Services Department of Public Works and Highways</i>
3:50-5:00	OPEN FORUM	





# 8<sup>TH</sup> REAAA BUSINESS FORUM

September 13, 2021 (PH Time: 1:00-5:00 PM)



## OPENING REMARKS

**LYDWINA MARCHIELA WARDHANI**

*Honorary Treasurer General  
REAAA Business Forum Coordinator*



## CONNECTIVITY IN CLARK AND NEW CLARK CITY

**SECRETARY VIVENCIO B. DIZON**

*President and Chief Executive Officer  
Bases Conversion and Development Authority*



## FUTURE TECHNOLOGY OF ASPHALT PAVEMENTS: MATERIALS, EQUIPMENT AND IOT BASED MANAGEMENT TECHNOLOGY

**DR. KI HOON MOON**

*R&D Planning Team, Senior Researcher  
Korea Expressway Corporation Research Institute*



# 8<sup>TH</sup> REAAA BUSINESS FORUM

September 13, 2021 (PH Time: 1:00-5:00 PM)



## INVESTMENT POTENTIAL IN ECONOMIC ZONES

**BGEN. CHARITO B. PLAZA, MNSA, PH.D.**

*Director General*

*Philippine Economic Zone Authority*



## IMPACT OF COVID-19 ON TRANSPORT AND CONSTRUCTION: NOW AND TOMORROW

**DATO' IR. DR. DENNIS GANENDRA**

*Chief Executive Officer*

*Minconsult Sdn Bhd*



## NEW MANILA INTERNATIONAL AIRPORT

**RAOUL EDUARDO C. ROMULO**

*Chief Finance Officer / Treasury Head*

*San Miguel Holdings Corporation*



# 8<sup>TH</sup> REAAA BUSINESS FORUM

September 13, 2021 (PH Time: 1:00-5:00 PM)



## MOBILIZING PRIVATE INVESTMENT THROUGH ASSET RECYCLE PROGRAM FOR INDONESIA INFRASTRUCTURE DEVELOPMENT

**IR. HADJAR SETI ADJI MEngSc**

*Director of HCM & System Development  
PT Waskita Karya (Persero) Tbk*



## INTEGRATING TRANSPORT RESILIENCE INTO REAAA STRATEGIC INITIATIVES

**CAROLINE EVANS**

*Chair, PIARC Committee 1.4: Climate Change and Resilience of Road Networks*



## BUILD BUILD BUILD: BUILDING AND SUSTAINING THE LONG-TERM GROWTH OF THE PHILIPPINES

**MARIA CATALINA ESTAMO CABRAL, PH.D.**

*Undersecretary for Information Management, Planning and PPP Services  
Department of Public Works and Highways*



# 8<sup>TH</sup> REAAA BUSINESS FORUM

September 13, 2021 (PH Time: 1:00-5:00 PM)

## CONNECTIVITY IN CLARK AND NEW CLARK CITY

### SECRETARY VIVENCIO B. DIZON

*President and Chief Executive Officer*

*Bases Conversion and Development Authority*

The presentation will talk about Clark, and how, despite the pandemic, it has been evolving as part of the fulfillment of this administration's vision of a modern metropolis, one that is future proof and resilient to unexpected events that may occur in the years to come.

Includes other critical infrastructure projects under President Rodrigo Duterte's Build, Build, Build program that set Clark apart from the rest and into becoming one of the fastest growing cities in Southeast Asia.

Clark has transformed into a vibrant city where business, leisure, wellness, and adventure thrive. By design, Clark is becoming the premiere hub for business, aviation, and tourism in the northern part of the Philippines, with the Clark Freeport Zone and the Clark International Airport driving the growth by providing massive infrastructure support and connectivity. Meanwhile, the latest greenfield development, New Clark City, is leading the way for people to live, work, play and thrive in a smart, green, and sustainable environment.

The presentation highlights how all of these come into play and contribute to the bright future of the community that is taking shape in Clark, led by the national government through the Bases Conversion and Development Authority



# 8<sup>TH</sup> REAAA BUSINESS FORUM

September 13, 2021 (PH Time: 1:00-5:00 PM)

## FUTURE TECHNOLOGY OF ASPHALT PAVEMENT: MATERIAL, EQUIPMENT AND IOT BASED MANAGEMENT TECHNOLOGY

**DR. KI HOON MOON**

*R&D Planning Team, Senior Researcher*

*Korea Expressway Corporation Research Institute*

It is well known that expressways have played a major role in the economic, social and cultural development of South Korea for many decades. Over the past 50 years, South Korea has constructed approximately 4,500 km of expressway network consisting of asphalt (35%) and concrete (65%) pavements which derived remarkable developments of whole nation. In spite of these achievements, several challenges have emerged since 2010: better road quality, repair & maintenance, efficient ways of pavement design and the increase in expressway reconstruction requirements. Moreover, the application of 4th industry revolution and corresponding technologies are strongly needed on conventional expressways, not only for business but also for academic area survival. In this presentation, the technical history of South Korean expressways over the past 50 years is briefly introduced. Then current and upcoming challenges for the next 50 years: development of construction skills, optimized strategy for expressway reconstruction (i.e. remodeling) and the application of 4th industry revolution technology, will be explained and discussed.





# 8<sup>TH</sup> REAAA BUSINESS FORUM

September 13, 2021 (PH Time: 1:00-5:00 PM)

## INVESTMENT POTENTIAL IN ECONOMIC ZONES

**BGEN. CHARITO B. PLAZA, MNSA, PH.D.**

*Director General*

*Philippine Economic Zone Authority*

The Philippine Economic Zone Authority (PEZA) is attached to the Department of Trade and Industry. It is the Philippine government agency tasked to promote investments, extend assistance, register, grant incentives to and facilitate the business operations of investors in export-oriented manufacturing and service facilities inside selected areas throughout the country proclaimed by the President of the Philippines as PEZA Special Economic Zones.

It oversees and administers incentives to developers/operators of world-class, ready-to-occupy, environmentally-friendly, secured and competitively priced Special Economic Zones.

The presentation will include PEZA Investment Performance (1st half of 2021), PEZA Transformation Road Map & Administrative Order 18, Potential Creation of more Economic Zones and Global Biz with PEZA.



# 8<sup>TH</sup> REAAA BUSINESS FORUM

September 13, 2021 (PH Time: 1:00-5:00 PM)

## IMPACT OF COVID-19 ON TRANSPORT AND CONSTRUCTION: NOW AND TOMORROW

**DATO' IR. DR. DENNIS GANENDRA**

*Chief Executive Officer  
Minconsult Sdn Bhd*

Covid-19, caused by a novel coronavirus, has had an unprecedented impact across the world, since it was declared a global pandemic in March 2020. The pandemic has caused one of the worse economic crises since WWII. The Engineering industry was not spared by the impacts of Covid-19, and most businesses were forced to adapt in order to survive and step up to the challenge in order to rise above and ensure business continuity. Valued at a whopping USD 30 Billion annually, the construction industry in Malaysia was, and remains, a key driver of the country's economy, even in these unprecedented times. While the industry was fast-paced with a high impact in the past, occurrence of the pandemic has made it crucial for additional safety and health precautions, mitigation measures and SOPs to be put into place, while maintaining a high standard of quality and timeliness in project delivery. Undeniably, the lessons learnt during this pandemic will change the way businesses operate, including the way we run businesses, draw up contract documents and carry out engineering design and construction activities. It is anticipated that, in the near future, businesses within these industries will have to innovate, have access to alternative solution options, and customize and tailor their processes to not just cope with and overcome the negative impacts of the pandemic, but to be well-equipped for other incidents.



# 8<sup>TH</sup> REAAA BUSINESS FORUM

September 13, 2021 (PH Time: 1:00-5:00 PM)

## NEW MANILA INTERNATIONAL AIRPORT

### **RAOUL EDUARDO C. ROMULO**

*Chief Finance Officer / Treasury Head  
San Miguel Holdings Corporation*

The New Manila International Airport (NMIA) project is a game-changer for the Philippines, a world class airport that will be developed in phases, with an initial capacity of 35 million passengers annually, and a target of 100 million passengers per year, once fully-complete.

The presentation will discuss the scope and benefits of the project and will include a short update on the status of the project.



# 8<sup>TH</sup> REAAA BUSINESS FORUM

September 13, 2021 (PH Time: 1:00-5:00 PM)

## MOBILIZING PRIVATE INVESTMENT THROUGH ASSET RECYCLE PROGRAM FOR INDONESIA INFRASTRUCTURE DEVELOPMENT

**IR. HADJAR SETI ADJI MEngSc**

*Director of HCM & System Development  
PT Waskita Karya (Persero) Tbk*

To reduce its infrastructure quality gap with neighboring countries, large-scale development in Indonesia is needed. The government has established more than 200 strategic infrastructure projects, ranging from transportation projects, electricity, water resources, to housing.

Massive infrastructure development requires huge amount of funding. With finite state budget allocation and insufficient financing capacity of the SOEs, attention has increasingly turned to the private sector to fill the gap.

Although infrastructure investment projects in Indonesia offer unique opportunities and have drawn the attention of private investment companies, the realization remains low compared to other countries such as Malaysia or Thailand.

Risks such as overwhelming legal and permit system, slow land acquisition progress, and social related problems are still the most unappealing aspects for investors.

Some SOE, like PT Waskita Karya (Persero) using an unorthodox scheme to finance their toll road investment projects, called the Asset Recycle Program. Commonly used for property products, Waskita is adopting the invest-build-divest cycle into their business. Using this method, Waskita is able to develop new infrastructure and recycle its capital by selling their stake in the projects.

This presentation will explain how the asset recycling scheme is utilized to eliminate some of the major infrastructure investment risks and provides a sustainable business model for Indonesia infrastructure SOEs.



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September 13, 2021 (PH Time: 1:00-5:00 PM)

## INTEGRATING TRANSPORT RESILIENCE INTO REAAA STRATEGIC INITIATIVES

**CAROLINE EVANS**

*Chair, PIARC Committee 1.4: Climate Change and Resilience of Road Networks*

Road transport networks are critical in providing accessibility and mobility of goods, services and people in our society. However, as a result of climate change, natural disasters and man-made events, transport networks are vulnerable to these hazards, which impacts on the ability of networks to provide intended levels of service. Climate change, resilience and emergency management are identified as areas of great interest to REAAA. As a result, the REAAA Climate Change, Resilience and Emergency Management Committee has been established to address issues of concern to REAAA member countries relating to infrastructure resilience. There are close connections between this REAAA Technical Committee and the activities of the World Road Association (PIARC) Technical Committees 1.4 'Climate Change and Resilience of Road Networks' and Technical Committee 1.5 'Disaster Management'. This presentation summarises the Terms of Reference of the REAAA Committee including the strategic priorities, work plan and next steps, and provides a summary of the connections to the PIARC Technical Committees. The recommendations of the Forum of European National Highway Research Laboratories (FEHRL) Scanning Tour to Japan and South Korea on Infrastructure Resilience are one of the main drivers of the Committee activities. The key resilience outcomes are presented in terms of the preparedness, robustness, recovery and adaptation. The presentation concludes with an overview of the collaboration opportunities between REAAA and PIARC.





# 8<sup>TH</sup> REAAA BUSINESS FORUM

September 13, 2021 (PH Time: 1:00-5:00 PM)

## **BUILD BUILD BUILD: BUILDING AND SUSTAINING THE LONG-TERM GROWTH OF THE PHILIPPINES**

**MARIA CATALINA ESTAMO CABRAL, PH.D.**

*Undersecretary for Information Management, Planning and PPP Services  
Department of Public Works and Highways*

Infrastructure development remains the best driver of economic growth. With its multiplying effect in terms of employment and inclusive growth, the Philippine government is strengthening the Build, Build, Build program to revitalize the economy from the COVID-19 pandemic.

In 2019, the country's spending on infrastructure drastically increased. It surpassed the 5% of GDP which is twice as much as the country's average total spending over the past 50 years.

The Build, Build, Build program means there will be new and better cities, particularly the New Clark City in Capaz, Tarlac. The government also envisions the country's rail network to expand from 77 kilometers of operational railways to 1,200 kilometers. The government is also prioritizing infrastructure that will improve the country's air connectivity considering it remains one of the key factors for a country's progress and promotes regional development across the archipelago.

Expanding the country's highways and expressways will give way to regional development and will eventually decongest highly urbanized areas. The government will build and lay the groundwork for the 1,262 kilometers of new high-standard highways and expressways in Luzon, Cebu and Davao.

The government's main objective is not only to Build, Build, Build, but also to Connect, Connect, Connect. It is important that the infrastructure projects being built are integrated and complement each other for it to be sustainable and promote inclusive growth across the country.



**SHAPING  
THE FUTURE**  
OF ROAD ENGINEERING  
WITH **ADVANCED  
TECHNOLOGIES**

# 16<sup>TH</sup> REAAA CONFERENCE TECHNICAL SESSION

September 14, 2021 (PH Time: 8:00 AM-5:00 PM)

# TECHNICAL SESSION PROGRAM

## AM SESSION

September 14, 2021 (PH Time: 8:00 AM-12:00 PM)

PH TIME	CONFERENCE HALL A (TITLE / TOPIC / SPEAKER)	CONFERENCE HALL B (TITLE / TOPIC / SPEAKER)
8:00-8:30	PREVENTATIVE MAINTENANCE STRATEGY FOR PAVEMENT UTILIZING NEXCO-PMS (Asset Management) <b>YUKI OTA</b>	INTEGRATED ROAD ASSET MAINTENANCE PLANNING BASED ON PROBABILISTIC AND STATUS QUO APPROACH OF ASSET DAMAGE EVALUATION (Asset Management) <b>BHOJ RAJ PANTHA</b>
8:30-9:00	DISASTER RISK REDUCTION AND MANAGEMENT FRAMEWORK FOR KENNON ROAD (Climate Change, Resilience and Emergency Management) <b>JOSEPH REI MARK CO</b>	ANALYSIS STRENGTHENING OF EXISTING BRIDGE STRUCTURES CAUSED BY SCOURING OF RIVER FLOW (Climate Change, Resilience and Emergency Management) <b>N. RETNO SETIATI</b>
9:00-9:30	EVALUATION OF PEAT WITH OPC, PCC, GGBFS, STRENGTH IMPROVER AND WATER REDUCER AGENT (Geotechnical Innovations) <b>AHMAD NUMAN</b>	ROAD HAZARDOUS SLOPE EXTRACTION TECHNOLOGY UTILIZING AIRBORNE ELECTROMAGNETIC METHOD SURVEY (Geotechnical innovations) <b>KATSUSHI KAWATO</b>
9:30-10:00	TRANSPORTATION DEMAND MANAGEMENT (TDM) OF LARGE VEHICLE PARKING SPACES IN EXPRESSWAY REST AREAS: EVIDENCE FROM JAPAN (Highway Planning) <b>YUKI MISUI</b>	TRAFFIC PARAMETER COMPARISON OF UNSIGNALIZED, SIGNALIZED AND U-TURN SLOT DESIGNS FOR A TYPICAL INTERSECTION IN METRO MANILA (Highway Planning) <b>ALEXIS M. FILLONE, PHD</b>
10:00-10:30	DEVELOPMENT OF MERGING SUPPORT SYSTEM FOR AUTOMATED VEHICLES (Intelligent Transport Systems) <b>HIROTAKA SEKIYA</b>	A STUDY OF TRAFFIC CONGESTION MANAGEMENT OF RAMP AND RAMP TERMINAL (Intelligent Transport Systems) <b>DONGHEE HAN</b>
10:30-11:00	ECONOMIC EFFECT OF HONSHU-SHIKOKU BRIDGES (Transportation, including public transport) <b>TAKASHI OKA</b>	TRAVEL DIARIES SURVEY OF COMMUTER IN ENHANCING TRANSPORTATION EFFICIENCY IN JAKARTA METROPOLITAN AREA (Transportation, including Public Transport) <b>ALFA ADIB ASH SHIDDIQI</b>
11:00-12:00	OPEN FORUM	OPEN FORUM

# TECHNICAL SESSION PROGRAM

## PM SESSION

September 14, 2021 (PH Time: 1:00-5:00 PM)

PH TIME	CONFERENCE HALL A (TITLE / TOPIC / SPEAKER)	CONFERENCE HALL B (TITLE / TOPIC / SPEAKER)
1:00-1:30	ALL-WEATHER, HIGHLY DURABLE COLD ASPHALT MIXTURE FOR PAVEMENT REPAIR (Pavement Technology) <b>AKIHITO HIROTA</b>	WARM MIX ASPHALT OF HIGH-CONTENT RECLAIMED ASPHALT PAVEMENT UTILIZING BOTH FORMING TECHNIQUES AND CHEMICAL ADDITIVES (Pavement Technology) <b>MASAHIRO ANDOU</b>
1:30-2:00	AN INNOVATIVE PAVEMENT EVALUATION METHOD USING MOBILE MAPPING SYSTEM (Pavement Technology) <b>MAKOTO KAMEOKA</b>	EXPERIMENTAL DEVELOPMENT OF NEW TEST METHOD FOR EVALUATING INTERLAYER BONDING PROPERTIES OF ASPHALT PAVEMENT CONSIDERING PORE WATER PRESSURE (Pavement Technology) <b>HIROKI TAKEBAYASHI</b>
2:00-2:30	UTILIZATION SLAG NICKEL WASTE AGGREGATE FOR ROAD PAVEMENT MATERIAL (Pavement Technology) <b>IWAN SUSANTO</b>	THE MODERNIZATION OF SUMATERA EXPRESSWAY ROAD NETWORK: GOOD PRACTICES IN PUBLIC PRIVATE PARTNERSHIP (Road Financing Schemes) <b>HERMANTO DARDAK</b>
2:30-3:00	LACH HUYEN PORT INFRASTRUCTURE CONSTRUCTION PROJECT (ROAD AND BRIDGE OPTION) (Infrastructure Design and Construction) <b>ABIGAIL C. VERZOSA</b>	PERFORMANCE EVALUATION OF TURBO-ROUNDBOUT IN PAMPANGA, PHILIPPINES (Infrastructure Design and Construction) <b>NEAL LORENZO CASTILLO</b>
3:00-3:30	USING MONITORING TECHNOLOGIES FOR INNOVATIVE MAINTENANCE AND MANAGEMENT OF EXTRADOSED BRIDGES (Infrastructure Design and Construction) <b>CHUN-CHUNG CHEN</b>	ANALYSIS OF CRASH SEVERITY IN INDONESIA USING ORDINAL LOGISTIC REGRESSION (Road Safety) <b>YUSUF ADINEGORO</b>
3:30-4:00	DEVELOPMENT OF ROAD SAFETY AUDIT METHODOLOGY USING DRIVING SIMULATOR BASED ON VIRTUAL REALITY (Road Safety) <b>KIM SOOHEE</b>	RISK MANAGEMENT FOR DROWSY DRIVING BASED ON CONTINUOUS DRIVING HOURS OF INDIVIDUAL VEHICLES (Road Safety) <b>HYUN-SEOK LEE</b>
4:00-5:00	<b>OPEN FORUM</b>	<b>OPEN FORUM</b>



# VIRTUAL TECHNICAL TOUR

**ROAD TRIP PILIPINAS: “Road to endless opportunities and inclusive growth”**

September 13, 2021 (PH Time: 5:00-6:00 PM)



New Clark City



Subic Freeport Expressway



Tarlac-Pangasinan-La Union Expressway



Central Luzon Link Expressway



Metro Manila Skyway Stage 3



Ninoy Aquino International Airport Expressway



Cavite-Laguna Expressway



Cebu-Cordova Link Expressway



Davao City Bypass Road



Davao City Coastal Road



# 16<sup>th</sup> REAAA CONFERENCE MAJOR SPONSORS

## PLATINUM SPONSORS



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16<sup>TH</sup> REAAA CONFERENCE



Manila, Philippines

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