WELCOME MESSAGE

It is our great pleasure to invite you to the Asia-Pacific Railway Innovations Forum which will take place at the Asian Development Bank (ADB) Headquarters in Manila, Philippines.

The Asia-Pacific Railway Innovations Forum, jointly organized by UIC and ADB (Asian Development Bank), will discuss the future of railway systems in developing Asia and the Pacific with respect to the new and disruptive technologies of the Fourth Industrial or “Digital” Revolution.

The level of railway technology varies greatly throughout developing Asia and the Pacific, but is often ancient in terms of railway infrastructures, systems, and rolling stock. New technologies in the digital sphere, from control systems to data gathering, create an immense opportunity, but at the same time the agony of choice as countries must sort and prioritize which technologies are the most appropriate in their specific, national case.

This forum aims to bring together key decision makers, members of the railway industry, specialists and experts to discuss current solutions, alternatives and future trends in applied rail sector technologies.

We look forward to seeing you in Manila from 21 to 24 May 2019.
SESSION 1: RAILWAY ASSET MANAGEMENT PRINCIPLES AND LIFE-CYCLE STRATEGIES

Chairman: Mr. Ravi Ravitharan, Director, Institute of Railway Technology (IRT), Australia

9:30 REGISTRATION

9:00 OPENING REMARKS

Mr. Rambang Sutantono, Vice-President for Knowledge Management, ADB (Indonesia)

Mr. Jean-Pierre Loubinoux, Director General, UIC

KEYNOTE SESSION

9:30 Keynote Speech: Railway Innovations and Future Developments

Mr. Jean-Pierre Loubinoux, Director General, UIC

10:00 Keynote Panel: Digital technology-driven changes in the railway market

DMC representatives from ADB’s different regions (SA, SE, EA, CW)

10:30 COFFEE BREAK

SESSION 2: DIGITAL SOLUTIONS TO LEAD AND STEER RAILWAY DESIGN AND O&M

Chairman: Mr. Francis Bedel, Chief Digital Officer, UIC

9:00 Maintaining Railways: Strategies from preventive, predictive, and condition-based maintenance

Mr. Remy Jacquier, General Manager, Oxand, France

9:30 Asset Management – ISO55000 application guideline for railways infrastructure organizations

Mr. Teodor Gradinariu, Senior Technical Advisor Rail System Department, UIC

9:45 Rail Top Model and Asset Hierarchy for the UICC improvement

Mr. Ark Magnien, Senior Technical Advisor, UIC

10:30 COFFEE BREAK

SESSION 3: OPPORTUNITIES AND RISKS RELATED TO THE DIGITAL REVOLUTION AND NEW PASSENGER INTERFACES

Chairman: Mr. Tom Sargent, Representative of UIC Pacific, UIC

9:00 Challenges of Data Analytics and Visualization

Mr. Teodor Gradinariu, Senior Technical Advisor Rail System Department, UIC

9:30 Merging Big Data and the Digital Revolution

Mr. Aleksey Ponomarev, Russia

9:45 Intelligent Solutions of Train Control and Traffic Control System for High Speed Railway in China

Mr. Dali Wu, Managing Director - Rail, Australia

10:30 COFFEE BREAK

SESSION 4: SIGNALLING & TRAIN CONTROL SYSTEMS SOLUTIONS – PART 1

Chairman: Mr. Tom Sargent, Representative of UIC Pacific, UIC

10:00 Propositions for Effective Data Analytics and Visualization

Mr. Alexander Canadell, Spain

10:30 Innovative Solutions-Based Train Control and Traffic Control System for High Speed Railway in China

Mr. Shi Peng, Senior Researcher, CARS, China

11:00 Programme Highlight: Strategy and Case Study

Mr. Michael Remy Jacquier, General Manager, Oxand, France

11:30 COFFEE BREAK

SESSION 5: SIGNALLING & TRAIN CONTROL SYSTEMS SOLUTIONS – PART 2

Chairman: Mr. Tom Sargent, Representative of UIC Pacific, UIC

9:00 Suitable PPP models for DMCs

Mr. Frank Zschoche, Managing Partner, Civity, Germany

9:30 Automatic Train Operations – a critical look at different use cases

Mr. Guo Chunjiang, Senior Engineer, China Railway Signal & Communication (CRSC), China

9:45 Performance and Incentive schemes to manage outsourcing strategies and to ensure Life-cycle considerations

Mr. YIN Xunzheng, Senior Researcher, CARS, China

10:30 Experience with land capture value models

Mr. Alexey Ozerov, NIIAS, Russia

10:45 Experience with Real Estate Development models

Mr. ZHANG Qi, Senior Researcher, CARS, China

11:00 Questions & Answers

RounDTABLE/PANEL SESSION

Chairman: Mr. Teodor Gradinariu, Senior Technical Advisor Rail System Department, UIC

12:00 LUNCH

SESSION 3: DIGITAL SOLUTIONS TO LEAD AND STEER RAILWAY DESIGN AND O&M STRATEGIES

Chairman: Mr. Francis Bedel, Chief Digital Officer, UIC

14:00 Current Trends and Forecasts

Mr. Francis Bedel, Chief Digital Officer, UIC

14:30 Track Data Analytics and Visualization

Mr. Teodor Gradinariu, Director, Rail System Department, UIC

14:45 Introducing Digital Technologies into Track Maintenance Machinery

Dr. Flavio Auer, Director of Technology and Innovation & Mr. Krasnoff Wilczek, Head of Track Analytics, Plasser & Theurer, Austria

15:15 Questions & Answers

COFFEE BREAK

SESSION 4: SIGNALLING & TRAIN CONTROL SYSTEMS SOLUTIONS – PART 1

Chairman: Mr. Tom Sargent, Representative of UIC Pacific, UIC

15:30 With a variety of different signalling and train control systems in place, each for different railway systems and operation needs, different developments for diverse systems, and technical developments for future 5G or satellite-based systems, these two sessions shall give an overview of different systems, options, and near-future standards

Mr. Alexey Ponomarev, Russia

Mr. Shogo Kurokawa, Rail System Director, JR East, Japan

Mr. Teodor Gradinariu, Senior Technical Advisor Rail System Department, UIC

16:00 Questions & Answers

17:00 CLOSING PANEL

Chairman: Mr. Ro Sakamoto, Senior Consultant, Central and West Asia Department, ADB

17:30 Rounding up

18:00 Official Dinner hosted by Philippine National Railways (PNR) at the Edsa Shangri-La hotel, Manila

19:00