

**Background:**

The Asian EST Initiative, which is a joint initiative of UNCRD and the Ministry of the Environment of the Government of Japan (MoE-J), was launched in 2004. The intergovernmental Regional EST Forum in Asia, which is the key component of the Asia EST Initiative, has emerged as an important platform in the region for policy discussions and negotiations on sustainable transport. The Forum provides a strategic and knowledge platform for sharing experiences and disseminating among Asian countries best practices, policy instruments, tools, and technologies on various aspects of sustainable transport underlined in the Aichi Statement (2005). The Regional EST Forum comprises: (a) high-level government representatives (mainly from Ministries of the Environment, Transport, Urban Development, and Health); and (b) a Subsidiary Expert Group to provide technical input to policy consultations in various thematic areas on EST. Starting with ASEAN + 4 (China, Japan, Republic of Korea, and Mongolia), the Regional EST Forum gradually expanded to cover 24 countries, including South Asia and Russian Federation. With the spirit of realizing Bangkok 2020 Declaration (2010-2020) and Bali Vision Three Zeros – Zero Congestion, Zero Pollution, and Zero Accidents, and by forging meaningful link with the new UN High-Level Advisory Group on Sustainable Transport, the Forum further aims to contribute to the global processes, discussions and actions in transport sector leading to sustainable development, including the overarching Rio+20 outcome – the Future We Want, post-2015 development agenda, and the Sustainable Development Goals (SDGs) to be adopted by the member countries of UN in UN General Assembly in September 2015.

The inaugural 1st Regional EST Forum in Asia (2005, Japan), through the adoption of the Aichi Statement (2005), fostered a common understanding across Asia on the essential elements of EST as well as the need for an integrated approach to deal with multi-sectoral transport, environment, health and safety issues, including climate change. This was the first major transport congress of Asian countries to successfully highlight and draw attention to social equity and gender considerations, among other 11 thematic areas, in overall transport policy, planning and development attaching strong importance to non-motorized transport (NMT) and people and environmentally friendly transport design and infrastructure.

Seoul Statement ~ Towards the Promotion of EST for a Low-Carbon Society and Green Growth in Asia, agreed at the 4th Regional EST Forum (2009, Rep. of Korea), forged a consensus on the need for sustainable mobility and various transport demand management (TDM) tools and measures to address local air pollutants and the greenhouse gas (GHG) emissions from the transport sector concurrently and effectively towards green growth and low carbon society in Asia.

The Bangkok 2020 Declaration (2010-2020) adopted at the Fifth Regional EST Forum in Asia (2010, Thailand), reflecting a regional consensus, aims to influence the decisions of governments and various transport stakeholders in the region over the decade (2010-2020) towards realization of safe, secure, affordable, efficient, people- and environment-friendly, and inclusive transport in rapidly urbanizing and modernizing Asia. The Bangkok 2020 Declaration, with twenty time-bound EST goals and monitoring indicators (to assess progress in meeting them) embedded in avoid-shift-improve strategy, was the first regional declaration on the strengthening of environmentally sustainable land transport in developing Asia.

The Regional EST Forum in Asia has been able to catalyze a consensus among the EST member countries to move towards a "Regional Agreement on Green Freight in Asia". The 6th Regional EST Forum in Asia (2011, India) not only called Asian governments to develop strategies, policies, regulations, and make investment for the establishment of national green freight programmes, but also catalysed the "Private Sector Declaration on Green Freight in Asia towards a Green Economy", acknowledging private sector's responsibilities and lending support to governments for green freight initiatives and programmes that reduce fuel dependency, and air pollutant and CO<sub>2</sub> emissions while maintaining economic growth.

The 7th Regional EST Forum in Asia (2013, Indonesia) adopted the Bali Declaration on Vision Three Zeros - Zero Congestion, Zero Pollution, and Zero Accidents towards Next Generation Transport Systems in Asia, reinforcing and renewing the commitments of Asian countries on the implementation of Bangkok 2020 Declaration. The Vision Three Zeros is based on zero tolerance towards congestion, pollution, and road fatalities which help in bringing about a paradigm shift in thinking on the role of motorization and mobility in realizing sustainable development in Asia. The outcome of Seventh Regional EST Forum in Asia also reinforced, among others, the importance of green freight for Asian countries for better logistics and supply chain management.

In course of policy discussion and deliberations at the Regional EST Forums, the Asian countries have increasingly felt the need to realize climate and disaster resilient transport system and infrastructures. It was also noted in the Forums that many developing countries are in net deficit in sustainable urban transport infrastructures, thereby it was increasingly felt to mobilize public-private-partnerships (PPPs) and innovative financing mechanisms to bridge such deficits.



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## Public Symposium on Environmentally Sustainable Transport (EST) in Asia

Date: Thursday, 19th March 2015  
Venue: The Lecture Hall, Graduate School of Environmental Studies Building, Nagoya University Higashiyama Campus (Chikusa, Nagoya, Japan)  
Co-organizers: Research and Education Center for Sustainable Co-Development, Graduate School of Environmental Studies, Nagoya University (NU-SusCoDe); United Nations Centre for Regional Development (UNCRD), and the 16th International Seminar in FY2014 of the Committee of Infrastructure Planning and Management, Japan Society of Civil Engineers  
Language: English and Japanese with simultaneous interpretation service  
Admission: Free, Advanced Registration  
Theme: Outcomes of Regional EST Forums in Asia, including the Bangkok, Bali, and Colombo Declarations, and their Relevance in Post-2015 Development Agenda/Sustainable Development Goals (SDGs), as well as the Role of Scientific and Research Community and the Private Sector  
Objective: To make Japanese public, research and scientific community, private sector aware of the needs of developing countries of Asia in transport and sustainable development and their role in achieving a smart, safe, livable, resilient and inclusive community and society in Asia. The Symposium will also discuss on how PPP and other financing mechanism could be promoted in realizing sustainable and resilient transport infrastructure in Asian countries. The outcome of the public Symposium will provide substantive input to the 9th Regional EST Forum in Asia in 2015.  
Targeted Audience: Japanese scientific and research community, private sector, central and local governments, and general public

**Programme:**

13:00 – 13:20 Opening remarks: Master of the Ceremony: Prof. Hirokazu Kato, NU-SusCoDe  
Prof. Seiichi Matsuo, Nagoya University President-Elect  
Mr. Yoshikazu Ikeda (Superintendent, Chubu Regional Environment Office, the Ministry of the Environment of Japan)  
Ms. Chikako Takase, Director, UNCRD  
13:20 – 13:45 "Outcomes of the Regional EST Forums in Asia ~ Moving From Aichi to Post-2015 Development Era,"  
Mr. Choudhury Rudra Charan Mohanty, Environment Programme Coordinator, UNCRD  
13:45 – 14:10 "Beyond Bangkok 2020 Declaration," Prof. Yoshitsugu Hayashi, Director, NU-SusCoDe  
**Panel discussion sessions**  
14:10 – 15:30 Session 1: Integrated EST Policy and Resilience, Facilitator: Mr. C.R.C. Mohanty, UNCRD  
"Intercity Transport in China (TBC)," Dr. Huapu Lu, Professor and Director of Institute of Transportation Engineering, Tsinghua University  
"EST and Resilience in Emerging Economies,"  
Dr. Ashish Verma, Professor, Indian Institute of Science; President, Transportation Research Group of India (TRG); WCTRS  
"Developing Low Carbon Urban Transportation Policies,"  
Dr. Wei-Shiuen Ng, Research Fellow, Stanford University Precourt Energy Efficiency Center  
"MLIT Policies and Measures on EST,"  
Ms. Yoko Tsuji, Environmental Policy Division, Ministry of Land, Infrastructure, Transport and Tourism (MLIT), Japan  
"Evolution of the Tokaido Shinkansen for 50 Years and the Chuo Shinkansen using the SCMAGLEV,"  
Mr. Toshio Otake, Corporate Officer, Deputy Director General, and General Manager,  
Technology Research and Development Department, Central Japan Railway Company (JR Central)  
15:30 – 15:40 Coffee Break  
15:40 – 16:40 Session 2: Public Private Partnerships (PPP) - Strategic Finance and Investment for EST,  
Facilitator: Prof. Yoshitsugu Hayashi, NU-SusCoDe  
"Financing of Sustainable Transport Infrastructures and PPP," Dr. Victor Pontines, Research Fellow, ADB Institute Tokyo  
"Strategic Finance and Investment by JEXWAY," Dr. Koji Kuroda, President, Japan Expressway International (JEXWAY)  
"Green Hill by Waste and Mud – from the Environmentally Sustainable View Point as PPP Project (Before and After High Wave Disaster),"  
Dr. Masaki Arioka, Executive Director, Society of Life-cycle Infrastructure Management (SLIM Japan)  
"Aiming for a Thriving Low-Carbon Society: Toyota City,"  
Mr. Kazuya Nishi, Director, Transportation Policy Division, Urban Maintenance Department, The Toyota City  
16:40 – 16:50 Recapitulation of panel discussions  
16:50 – 17:00 Closing remarks: Prof. Satoru Kuno, Dean, NU Graduate School of Environmental Studies



## Biography

### Dr-Eng. Yoshitsugu Hayashi

Professor & Director, Education and Research Center for Sustainable Co-Development, Nagoya University

He began his research career as land use/transport modeler. Serves as Chair of Special Interest Group (SIG) on Transport and Land Use of World Conference on Transport Research Society (WCTRS) since 1989. He established SIG on Transport and Environment and became the Chair in 2001. He also became Scientific Committee Chair and currently serves as President of WCTRS since 2013. Editor of "Transport, Land Use and The Environment" (1996, Kluwer), "Urban Transport and The Environment" (2004, Elsevier), "Intercity Transport and Climate Change" (2014, Springer).

### Ms. Yoko Tsuji

Deputy Director, Environmental Policy Division, Policy Bureau, Ministry of Land, Infrastructure, Transport and Tourism/MLIT

At current position, she is responsible for planning and coordination of general environmental policies at MLIT, including measures against global warming, preservation of nature and biodiversity, and transitioning to a recycling society. Previously, she has worked in International Policy Division, Office of the Director for Transport Safety Bureau, and Safety Policy Bureau.

### Mr. Toshio Otake

Manager and Corporate Officer, Technology Research and Development Department, Central Japan Railway Company/JR Central

Assumed his position in 2014, in charge of R&D activities for ensuring safe and reliable transportation, improving qualities of the Shinkansen trains, and reinforcing infrastructures. Joined Japan National Railways (JNR) in 1980 and transferred to Central Japan Railway Company after privatization of JNR. Previously, General Manager of tracks and structure department of the Shinkansen trains, and conventional line operation division. Holds Master of Engineering from the Dept. of Civil Eng. at Kyoto University.

### Mr. Choudhury Rudra Charan Mohanty

Environment Programme Coordinator, UNCRD /UN DESA

Assumed his position in 2003, and has more than 20 years of professional experience in the UN system. Current responsibilities include implementation of three major initiatives at international level: 1. Promotion of Environmentally Sustainable Transport (EST) in Asia, 2. Promotion of 3R in Asia and the Pacific, and 3. International Partnership on Expanding Waste Management Service of Local Authorities (IPLA) – a Rio+20 partnership. Previously at UNEP RRC.AP in Thailand (1993-2003), coordinated Asia-Pacific segment of Global Environment Outlook 1, 2 and 3.

### Dr. Huapu Lu

Professor & Director, Institute of Transportation Studies, Tsinghua University

He specializes on transportation planning, traffic controlling and management, intelligent transportation system (ITS), sustainable transportation and safety. Among his numerous publications, "Theory and Method of Transportation Planning" is selected as recommended textbook for transportation studies in China. Since 2000, deputy head of national expert group "Smooth Traffic Project" panel, led by Chinese Ministries of Public Security and Construction, member of Scientific Committee of WCTRS, and reviewer of leading academic journals.

### Dr. Victor Pontines

Research Fellow, Asia Development Bank Institute/ADB

Joined ADBI in May 2012, with research interest in identification and transmission of financial crises, international capital flows, exchange rate policy, regional financial integration, and impact of infrastructure investments. Seconded by Bank Negara Malaysia as Senior Economist for South East Asian Central Banks (SEACEN) Research and Training Centre in Malaysia, and taught at Flinders University and the University of Adelaide in Australia, and Carnegie Mellon University-Australia. BA, MSc. in Economics, De La Salle University, the Philippines; MA w/ Distinction, University of Exeter, UK; Ph.D., University of Adelaide, Australia.

### Dr. Koji Kuroda

President, Japan Expressway International Ltd. /JEXWAY

Assumed presidency in September 2011, when JEXWAY was established to propel the toll road businesses overseas by combining resources, personnel, and funds of five expressway companies in Japan. Ph.D. from Michigan State University in 1984, majored in Transportation and Environments. He has taught at Asian Institute of Technology as Associate Professor and worked for the World Bank (EA11N) as Highway Engineer. Previously, Managing Director of C-NEXCO.

### Dr. Ashish Verma

Assistant Professor, Department of Civil Engineering & Centre for Infrastructure, Sustainable Transportation, and Urban Planning, Indian Institute of Science

Ph.D., Indian Institute of Technology-Bombay. Specializes on sustainable transportation in developing countries, including planning and management, optimization of transportation systems, driver behaviors and road safety, intelligent transportation system (ITS), and traffic management. Co-editor of "transport policy" of Elsevier, editorial board member of several journals, the founding president of Transportation Research Group of India. At WCTRS, serves as country representative and Scientific Committee member, chair and co-chair of SIG on Infrastructure Operation and Traffic Management and Disaster Resilience in Transport.

### Dr. Wei-Shiuen Ng

Research Fellow, Precourt Energy Efficiency Center, Stanford University

Ph.D., City and Regional Planning, the University of California, Berkeley. Specializes on evaluation of parking pricing and its influence on travel behavior, and development of transportation and parking policies to reduce energy use and carbon emission levels. Former transportation policy analyst at EMBARQ, World Resources Institute Center for Sustainable Transport in Washington D.C., studied the economic impact of climate change induced sea-level rise and excelled in transportation emissions and energy modeling, transportation policy scenarios building, environmental and social impact of motorization, and sustainable urban transportation development in Asia.

### Dr. Masaki Arioka

Executive Director, NPO "Society of Life-cycle Infrastructure Management"/SLIM Japan

Chair Professor of International Construction Management at Kochi University of Technology, with expertise in private finance initiative. At general contractor Kumagai-gumi Co. Ltd., he managed numerous subway construction projects in Japan and directed the Sydney Harbor Tunnel (SHT) Project in Australia. Following the Great Tohoku Earthquake/Tsunami in 2011, his NPO documented debris management and disposal in affected areas and designed alternative concept of "3.11 Green Hill," and applied to the Tongan government for prevention and alleviation of climate change disasters and sea level rise.

### Mr. Kazuya Nishi

Director, Transportation Policy Division, Urban Maintenance Department, Toyota City

As Director of the Division, he is in charge of public transport and transportation-oriented urban planning of the City. Joining the workforce in 1987, worked in the Urban Planning Division and engaged in the formulation of Urban Planning Master Plan, and also in the "Model Environment City" Promotion Division of Planning Department and tackled the formulation of action plan and the establishment of the Toyota Ecoful Town – an innovative model district for low-carbon society.