81st Commission Session

Side Event:Innovation and Collaboration: Pathway for Resilient and Sustainable Urban Transportation Development in Asia and the Pacific

23 April 2025 (14:00 to 15:15, Thailand)(15:00 to 16:15, Beijing）

Organizer: China Association for Science & Technology

Hosts: CAST UN Consultative Committee on Transport and Sustainable Infrastructure
China Highway & Transportation Society
Wuhan University of Technology

Support organizations:

International Road Federation
International Road Assessment Programme
National Transport Research Organization, Australia
The Institution of Engineers, Singapore

Time: 23 April 2025 (14:00 to 15:15, Thailand)(15:00 to 16:15, Beijing）

Venue: Online: Zoom Meeting, English-Chinese translation available.

- ZOOM ID: 899 2748 3925
- Password: 888999

Contact: guannina@chinahighway.com

Concept note: Download the PDF

Background:

The acceleration of urbanization in the Asia-Pacific region has brought many challenges, such as climate change, resource scarcity and social inequality, which have placed higher demands on urban transport systems. Building a resilient and sustainable urban transport development model is not only the key to addressing current challenges, but also an important way to ensure sustainable urban development in the future. The event will focus on three key areas of sustainable transport, including green mobility resilient cities and AI+ transport technology, and explore how to promote a more resilient and sustainable future for Asia-Pacific cities through technological innovation and regional cooperation.

Countries in the Asia-Pacific region face similar challenges in the process of urbanization, and regional cooperation is particularly important. By sharing experience, technology and resources, countries can work together to tackle transport challenges. Scientific and technological innovation is the core driving force for sustainable transportation and resilient cities. Countries should strengthen cooperation in cutting-edge technologies such as AI, big data and the Internet of Things to promote the intelligent and green development of transport systems.

Expected Outcomes

• Exchange of best practices on resilient and sustainable urban transportaion solutions across asia and pacific countries;

• Emphasize the key challenges and solving pathway of urban transportations through high-level speakers and expert-led discussions;

• Promote dialogue and collaboration among stakeholders to creating more resilient, and more sustainable urban transportation systems.

• Enhance science and technology collaboration among asia and pacific countries.

Programme

Welcome remarks by organizers

Dr. Xinping Yan, Chair of CAST UN Consultative Committee on Transport and Sustainable Infrastructure, Academician of the Chinese Academy of Engineering, Chief Professor of Wuhan University of Technology

Mr. Jinquan Zhang, Executive Vice President of CHTS

Keynote Presentation

Dr. Richard Yeo, the Chief Operating Officer for NTRO

Dr. Der-Horng Lee, Fellow of Academy of Engineering Singapore (SAEng), Dean of Zhejiang University-University of Illinois Urbana-Champaign Institute

Release the 2024 National Report of CAST UN Consultative Committee on Transport and Sustainable Infrastructure

Dr. Xinghua Li, Dean of China Transportation Institute at Tongji University (CTIT)

Panel Discussion

Mr. Yii Der Lew, Deputy Chairman of Chartered Engineer Board and Chairman for Transportation Cluster, The Institution of Engineers, Singapore (IES)

Dr. Hewu Wang, Professor of School of Vehicle and Mobility at Tsinghua University, Director of Zero-Carbon Transportation Research Center of Institute for Carbon Neutrality at Tsinghua University

Mr. Sam Johnson, Infrastructure Consultant of World Bank

Mr. Yuan Shao, Deputy General Manager of Shenzhen Urban Transport Planning Center CO., LTD

Ir. Chin Kar Keong, Managing Director of Perunding Atur Trafik Sdn Bhd., Malaysia

Mr. Guoyu Wang, Vice President of Huawei Intelligent Transportation System (ITS) Group

Prof. Wang Yacan, Professor of Beijing Jiaotong University

Conclusion

Moderator:

Ms. Nina Guan, Secretar-General of CAST UN Consultative Committee on Transport and Sustainable Infrastructure; Director of the International Cooperation Department at the China Highway & Transportation Society

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Introduction to Speakers 专家简介



Dr. Xinping Yan, Professor, Academician, Chinese Academy of Engineering (CAE),

Director of State Key Lab of Maritime Technology and Safety(MoST)

Director of Academic Committee of Wuhan University of Technology

http://wts.whut.edu.cn/dwjs/202006/t20200612_447776.shtml

严新平，武汉理工大学学术委员会主任、教授、研究生导师；担任水路交通控制全国重点实验室主任、智能航运与海事安全国际科技合作基地和学科引智基地主任，2019 年当选中国工程院院士。

兼任国务院学位委员会交通运输工程学科评议组成员、教育部科技委能源与交通学部副主任、交通运输部专家委员会和工信部造船强国战略咨询委员会委员等。

长期从事交通运输工程学科的人才培养与科技创新工作，致力于水路交通运输系统的安全性、智能化和绿色技术研究。



Jinquan Zhang, Executive Vice President of the China Highway & Transportation Society

Mr. Zhang Jinquan is the former President of the Highway Research Institute of the Ministry of Transport and a researcher (Technical Level 2).For the decades of years, Mr.Zhang has been engaged in scientific research, technological services and engineering practice in the fields of highway bridge inspection and evaluation, reinforcement and repair, performance improvement, traffic emergency repair and maintenance, as well as the construction and maintenance of modern long-span suspension Bridges.

Mr. Zhang Jinquan was the Vice President of CHTS for the 8th and 9th terms. On June 26, 2024, he was elected as the legal representative of CHTS by the fourth Council meeting of the Ninth term.

张劲泉，中国公路学会常务副理事长

交通运输部公路科学研究院原院长，研究员(技术二级)。张劲泉同志长期从事公路桥梁检测评定、加固修复、性能提升、抢通保通和现代大跨悬索桥建设与养护的科学研究、科技服务和工程实践:主持完成国家科技项目 2 项、部重大科技专项 2 项和多个省部级科研课题及工程科技项目，为推动我国公路桥梁养护现代化、消灭公路危桥，发展大跨悬索桥建养技术做出了重要贡献。

张劲泉同志为学会第八、第九届副理事长。2024 年 6 月 26 日，经中国公路学会第九届四次理事会议表决通过，担任学会法定代表人。



Dr Richard Yeo， NTRO COO

PhD, MEng, BE (Hons), Adjunct Prof. (Practice) Monash

Dr Richard Yeo has 35 years research and management experience in the roads sector. He is the Chief Operating Officer for the National Transport Research Organisation (NTRO) with oversight of national innovation programs covering Transport Futures, Safer Smarter Infrastructure, Sustainability and Materials Performance, Asset Performance, Infrastructure Measurement, Data Futures and Structures and Certification. He is involved in several national and international standards committees for asset management and digital engineering. Richard is the Chair of the Australian Chapter of the Road Engineering Association of Asia and Australasia (REAAA) and a Director of Indian Road Survey and Management (IRSM), and NTRO New Zealand.

理查德·杨博士

澳大利亚交通研究中心（NTRO）首席运营官

理查德·杨博士具有 35 年的道路研究与管理经验。现任澳大利亚交通研究中心（NTRO）首席运营官，主管国家级创新项目。杨博士同时在多个国内外标准化委员会中担任要职，专注于资产管理和数字工程的标准制定。杨博士是亚洲及大洋洲道路工程协会澳大利亚分会主席，并在印度道路调查与管理公司以及 NTRO 新西兰分支机构担任董事。他于 1988 年在莫纳什大学获得土木工程荣誉学士学位，于 2000 年及 2012 年在墨尔本皇家理工大学完成道路建设质量工程硕士及哲学博士学位。



Prof. Der-Horng Lee

Dean of Zhejiang University - University of Illinois Urbana-Champaign Institute

Professor Lee was graduated with his PhD degree from the University of Illinois at Chicago (UIC) in 1996. He is an elected Fellow of Academy of Engineering Singapore (SAEng) which signifies the recognition of Professor Lee's stellar leadership and career achievements in the field of engineering. In 2015, Professor Lee was elected as a Fellow of Institution of Engineers Singapore and the inaugural batch of Chartered Engineer of transport engineering and the assessor in Singapore. Professor Lee is ranked as top 1% in the area of Logistics and Transport in "World's Top 2% Scientists 2020" published by Stanford University.

李德紘

浙江大学伊利诺伊大学厄巴纳香槟校区联合学院院长

李德纮教授是新加坡工程院（SAEng）院士，浙江大学伊利诺伊大学厄巴纳香槟校区联合学院院长。1996 年博士毕业于芝加哥伊利诺伊大学（UIC），新加坡国立大学土木与环境工程系终身教授。2015 年，当选为新加坡工程师学会会士、新加坡第一批交通工程特许工程师和评估员。在斯坦福大学发布的“2020 年世界前 2%科学家"中，李教授被评为物流和运输领域的前 1%。



Dr. Xinghua Li

Dean of China Transportation Institute at Tongji University (CTIT）

Dr. Xinghua Li is currently a professor of transportation planning and policy study at Tongji University, the Secretary General of the Board of Experts of China Highway and Transportation Society (CHTS), and the Member of Strategy Committee of IRF. He is an expert in the fields of strategic transportation planning, transportation policy research, collaborative innovation platform and think tank management, and international cooperation, etc.

李兴华，同济大学中国交通研究院院长

济大学交通规划与政策研究教授，中国公路交通学会专家委员会秘书长，国际道路联合会战略委员会委员。擅长交通战略规划、交通政策研究、协同创新平台与智库管理、国际合作等领域。

Panel Guests



Mr. Lew Yii Der

Deputy Chairman of Chartered Engineer Board, Chairman for Transportation Cluster, The Institution of Engineers, Singapore (IES)

Yii Der has experienced expertise holding various management positions in policy, traffic management, safety, programme planning, transport technology, future mobility R&D. For his 30 years of public service, he was awarded the Public Administration (Silver) Medal [PPA(P)] in 2015.

Yii Der holds a bachelor's degree (1st class honors) in Civil Engineering from the National University of Singapore (NUS) and has a master's degree in Public Management from the Lee Kuan Yew School of Public Policy, NUS.

He is active in both professional and community work: he was first elected into the Council of the Institution of Engineers, Singapore (IES) in 2017 and has been a council member since then.

Lew Yii Der 先生在政策、交通管理、安全、方案规划、交通技术、未来交通研发等领域担任过丰富的管理职位。由于他 30 年的公共服务，他于 2015 年被授予公共管理（银）奖章[PPA(P)]。

Yii Der 拥有新加坡国立大学（NUS）土木工程学士学位（一等荣誉）和新加坡国立大学李光耀公共政策学院公共管理硕士学位。Yii Der 积极参与专业和社区工作：他于 2017 年首次当选为新加坡工程师学会（IES）理事会成员，并自那时起一直担任理事会成员。



Dr. Hewu Wang

Professor of School of Vehicle and Mobility at Tsinghua University, Director of Zero-Carbon Transportation Research Center at Tsinghua University Institute for Carbon Neutrality

Dr. Wang Hewu is mainly engaged in the research on the development strategy of transportation vehicles, including the development laws and differences of automobiles among regions, the technical roadmaps of vehicle energy and power, the characteristics of vehicle travel and energy and environmental impacts, etc. As the project leader, I have been in charge of the Ministry of Science and Technology's Inter-Governmental International Science and Technology Innovation Cooperation Special Project for ten consecutive years, and have established the China-Us Clean Vehicle Alliance with the Argonne National Laboratory of the US Department of Energy. The research results have been adopted and applied in the formulation of national standards and national and local policies, creating remarkable social and economic benefits.

王贺武 博士

清华大学车辆学院 教授(研究员)

清华大学碳中和研究院零碳交通研究中心主任

主要从事运载工具(道路车辆)发展战略研究，包括区域间汽车发展规律及差异性、车用能源与动力技术路线图、车辆出行特征与能源环境影响等。作为项目负责人，连续 10 年承担科技部政府间国际科技创新合作专项，与美国能源部阿岗国家实验室等组建了中美清洁汽车联盟。参加国家中长期科学技术发展规划纲要 2006-2020 第五专题"能源、资源与海洋发展科技问题研究"等部委战略咨询项目。



Sam Johnson

Infrastructure Consultant, the World Bank

Sam Johnson is an Infrastructure Consultant with the World Bank. He has worked in transport infrastructure advisory (roads, maritime, aviation) planning, design, construction, maintenance and financing for the World Bank with eight national governments in the Pacific Islands and several other countries around the world over the past five years.

He has a Bachelor of Engineering (Civil) (Hons1), Graduate Diploma in Sustainable Development and Humanitarian Action, and is studying a Masters of Global Development Practice at Harvard University. His Masters capstone research focuses on holistic cycling strategy, promotion and infrastructure investment on small islands.

山姆·约翰逊（Sam Johnson）是世界银行的基础设施顾问。在过去的五年里，他在世界银行与太平洋岛屿的八个国家政府和其他几个国家的交通基础设施咨询（道路、海运、航空）规划、设计、建设、维护和融资方面工作。

他拥有土木工程（荣誉）学士学位、可持续发展和人道主义行动研究生文凭，目前正在哈佛大学攻读全球发展实践硕士学位。



Yuan Shao

Deputy General Manager of Shenzhen Urban Transport Planning and Design Research Center

Mr. Shao Yuan is a professor-level senior engineer. He has rich working experience in transportation industry policies and digital transportation. Participated in multiple key research and development projects of the Ministry of Science and Technology, and won over 30 awards at various levels, including the First Prize of China Intelligent Transportation Science and Technology Award, the First Prize of China Urban Planning Science and

Technology Progress Award etc. He. Published nearly 50 papers and participated in the compilation of 10 national, industry and group standards, norms, guidelines and directives.

邵源，深圳市城市交通规划设计研究中心副总经理，教授级高工，在交通产业政策、数字交通等方面具有丰富的工作经验。参与多项科技部重点研发专项，获中国智能交通科学技术奖一等奖、中国城市规划科技进步一等奖、全国优秀城乡规划设计一等奖、深圳市科技进步一等奖项等各级奖项 30 余项，发表论文近 50 余篇，参编国家、行业及团体标准、规范、导则、指南 10 项。



Ir. Chin Kar Keong

Managing Director of Perunding Atur Trafik Sdn Bhd., Malaysia

Ir. Chin Kar Keong is a registered Professional Engineer with Practising Certificate who has been active in the fields of traffic engineering and transport planning for 40 years.

Ir. Chin is currently the Managing Director of Perunding Atur Trafik Sdn Bhd. His past experience included conducting transport studies for National Highway Network Development Plan, National Physical Plan, Kuala Lumpur Traffic Master Plan 2040, Kuala Lumpur City Plan 2020, Study on Bus Transportation System and various master planning projects in various regions.

His current professional and research interests included formulation of active mobility solutions and Mobility as a Service for sustainable urban transportation system.

陈家强，马来西亚城市交通规划顾问

陈家强是一名持有执业证书的注册专业工程师，在交通工程及运输规划领域活跃 40 年。

他目前是 perounding Atur traffic Sdn Bhd 的董事总经理。他过去的经验包括为国家公路网发展计划、国家实体计划、吉隆坡交通总体规划 2040、吉隆坡城市规划 2020、公共汽车运输系统研究以及不同地区的各种总体规划项目进行交通研究。他目前的专业和研究兴趣包括制定主动移动解决方案和可持续城市交通系统的移动服务。



Mr. Guoyu Wang

Vice President of Smart Transportation BU, Huawei Technologies

Mr. Wang Guoyu has served as President of the Global Transportation Business Dept, GM of the Brazil Enterprise Business Dept, and GM of the South America Enterprise Business Dept. With nearly 20 years of experience in transportation industry informatization research, Get deeply involved in the digitalization of transportation customers such as Dubai International Airport, Metro Mexico, Shenzhen Metro, Hong Kong Airport, Singapore Metro, Have a deep understanding and unique insight into the business model and ICT technology development trend of the transportation industry.

王国钰，华为交通智慧化军团副总裁

历任华为机场与轨道军团 COO、全球交通业务部总裁、交通解决方案部总经理、南美南企业业务解决方案部总经理、巴西企业业务解决方案部总经理，拥有近 20 年的交通行业信息化研究、解决方案规划设计经验，参与深圳地铁、深圳机场、新加坡地铁、迪拜机场、香港地铁、香港机场、法国铁路、墨西哥城地铁等交通行业数字化转型项目实战，对交通行业的商业模式、运营模式、ICT 技术演进有深入洞察和独到见解。



Prof. Yacan Wang

Professor of Beijing Jiaotong University

Professor Wang Yacan is a doctoral supervisor in the Department of Economics at the School of Economics and Management, Beijing Jiaotong University. Her main research areas include sustainable transportation, green travel, and the guidance of traffic policy behaviors. Served as a member of the Executive Committee and Academic Committee of the International

Transport Economics Association (ITEA), co-chair of the Regional Transport Policy Special Study Group of the World Transport Research Association (WCTR), and chair of the Transport Behavior and Transport Planning Discipline of the World Transport Congress (WTC). Elsevier's highly cited Chinese scholar in Applied Economics in 2020.

王雅璨，北京交通大学经济管理学院经济系中国交通运输经济研究中心副主任/教授

王雅璨教授是北京交通大学经济管理学院经济系博士生导师，主要研究方向为可持续交通、绿色出行、交通政策行为诱导等。担任国际运输经济学会（ITEA）执行委员会和学术委员会委员，世界交通研究协会（WCTR）区域交通政策特别研究组联合主席，世界交通大会（WTC）交通行为与交通规划学科主席。担任经济学顶级经济期刊和顶级交通研究期刊两个系列的主编会议以及运输与时空经济学国际会议的执行主席。担任 International Journal of Logistics Management 高级副主编，Transportation research part: D，E，F ，Transport Policy 等 7 个期刊的特刊主编。2020 年爱思唯尔应用经济学高被引中国学者。



Nina Guan

Director of International Cooperation of the CHTS

Ms. Guan is mainly responsible for the international exchanges and cooperation of the China Highway & Transportation Society. She was in charge of initiating the establishment of the "Belt and Road" International Transport Alliance (BRITA) as executive secretary, participated in the organization of the World Transport Congress (WTC). Since 2009, she has served as a liaison officer of the International Road Federation (IRF) in China, and since 2017, she has been a member of the International Cooperation Committee of TRB. Since 2022, she has served as the Secretary-General of CAST UN Consultative Committee on Transport and Sustainable Infrastructure; Since 2025, she has concurrently served as the Secretary-General of the Autonomous Driving Working Committee of the CHTS.

管妮娜担任中国公路学会国际合作主任，主要负责中国公路学会国际交流与合作工作，曾负责发起成立“一带一路”国际交通联盟（BRITA），担任执行秘书。参与世界交通运输大会（WTC）组织工作。2009 年起担任国际路联（IRF）联络员，2017 年起担任美国交通运输研究会（TRB）国际合作委员会委员。2022 年起担任中国科协联合国咨商交通与可持续基础设施专委会秘书长，2025 年起兼任中国公路学会自动驾驶工作委员会秘书长。