



3rd Asia Transportation Ecology Forum

(Organized on Zoom)

Time 1: 08:30–17:30, October 23, 2025(Beijing Time)

Time 2: 09:00–12:00, October 24, 2025(Beijing Time)

Zoom Meeting ID:

https://us06web.zoom.us/meeting/register/krOr74YTTOWcXVY_p6NRMQ#/registration

Attention: This link is for registration and access to the plenary presentation (morning) and Parallel Session I (afternoon). Links for Parallel Sessions II and III will be announced soon.



3rd Asia Transportation Ecology Forum

Organizers:

China Academy of Transportation Sciences (CATS)

China Sustainable Transport Innovation Center

Co-Sponsors:

China Highway & Transportation Society (CHTS'S ESD)

Infrastructure and Ecology Network Europe (IENE)

Beijing Jiaotong University

Wildlife Conservation Society (WCS)

Tianjin Research Institute for Water Transport Engineering, MOT

IUCN WCPA

Transport Planning and Research Institute, MOT

Zoological Society of London (ZSL)

Beijing Forestry University

IUCN WCPA Connectivity Conservation Specialist Group's Transport Working
Group (TWG)

Chengdu University of Technology

Australasian Network of Ecology and Transportation (ANET)

China Road & Bridge Corporation

Road Ecology Research Society of Japan

Peking University

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Organizers



可持续交通创新中心

China Sustainable Transport Innovation Center

Co-sponsors



北京大学自然保护与社会发展研究中心
Center for Nature and Society

Background

Asia possesses the largest population and the most extensive transport infrastructure in the world. At the same time, it is extremely rich in biodiversity, diverse ecosystem and landscape resource. The pursuit of economic development across developing countries and regions within Asia urgently requires the rapid construction and modernisation of transport infrastructure. However, this progress must be carefully balanced with the major challenges and responsibilities associated with of biodiversity conservation and ecosystem restoration.

To facilitate the exchange of research findings and collaboratively explore effective approaches for the harmonious integration of transportation development and nature conservation, the first and second Asia Transportation Ecology Forum were held in December 2021 and October 2023, respectively, along with the inaugural Asia-Europe Transportation Ecology Forum in October 2022. These three events collectively brought together nearly 600 scholars from 15 Asian nations, and 22 countries across other continents, yielding fruitful outcomes and fostering meaningful academic and professional engagement.

To further advance academic and practical exchanges in the field of transportation ecology in Asia, mitigate the impact of transportation infrastructure on biodiversity in Asia, and promote the green development of the transport industry, the China Academy of Transportation Sciences, the China Sustainable Transport Innovation Center, with renowned domestic and international institutions are preparing to jointly host the Third Asia Transportation Ecology Forum in Beijing on October 23-24, 2025. The conference will be conducted in a hybrid format, both in-person and online, and will convene leading experts and scholars in transportation ecology from across Asia and other continents.

Conference theme: Ecology, Inclusion, and Innovation.

The establishment of a sustainable transportation ecological network represents an inevitable trend of future development. This conference will build upon ongoing exchanges in traditional areas of road ecology research, while placing greater emphasis on cross-disciplinary and transboundary studies and practices concerning transportation and biodiversity conservation. Moreover, the rapid advancement of emerging technologies has profoundly changed our modern life. Innovations such as artificial intelligence and big data are expected to play a significant role in shaping the future transportation. Accordingly, the conference also welcomes in-depth discussions on the implications and applications of these technologies within the context of transportation ecology...



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Agenda of the forum

Time zone (UTC+8)	Presentations
<i>All presentations will have simultaneous interpretation. The time listed below includes Q&A time. Please keep to your time and leave 2-3 mins for Q&A, thank you.</i>	
8:30-08:45	Opening Remarks (Pending, Ministry of Transport(MOT), China)
08:45-09:10	Plenary Research Progress and Prospects of Monitoring, Evaluation, Protection and Restoration Technologies for Roadside Ecological Environment (Prof. Jiding Chen, President, China Academy of Transportation Sciences(CATS),MOT, China)
09:10-09:35	Plenary The Unintended Consequences of Linear Infrastructure in the 30x30 Target of the Global Biodiversity Framework (Prof.Gary M. Tabor MES VMD, Chair, Connectivity Conservation Specialist Group/IUCN World Commission on Protected Areas, USA)
09:35-10:00	Plenary The Current Situation and Prospect of Green Transportation Development in China (Prof.Honglei Xu, Vice President, Transport Planning and Research Institute, MOT, China)
10:00-10:15	Tea break and Poster Viewing
10:15-10:40	Plenary From Expertise to Deployment - Challenges and Opportunities for Mainstreaming Biodiversity into the Transport Sector (Mr Radu Mot, Vice President of IENE, Zarand Association, Romania)
10:40-11:05	Plenary

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	Transportation Ecology: Evolution from Local Remediation to Ecological Security and Construction of Ecological Civilization (Prof. Lizhe An, Former President, Beijing Forestry University, China)
11:05-11:30	Plenary The Current State and Future Development of Transportation Ecology (Dr. Rodney van der Ree, Chair, Australasian Network for Ecology & Transportation (ANET), Australia)
11:30-13:30	Lunch
Parallel Session I: Policy and management of Green Transportation (Moderator: Aili Kang, Director, China Global Investment and Impact Program, Wildlife Conservation Society(WCS), China)	
13:30-13:35	Introduction of this session
13:35-13:50	Theoretical and Technical Framework for Ecological Restoration of Transportation Engineering Damage Areas (Prof. Xiangjun Pei, Vice president, SouthWest Petroleum University, China)
13:50-14:05	Establishing a Functional Corridor for Amur Leopard Range Expansion in the Russian Far East (Mr. Aleksandr Nikolaevich Rybin, Large Carnivore Specialist, Society for the Conservation of Wild Animals (ANO WCS), Russia)
14:05-14:20	From Nanjing to the Whole Country: Investigating the Current Situation of Wildlife Road Kill in China Through Citizen Science (Prof. Zhongqiu Li, Nanjing University, China)
14:20-14:35	Working towards the construction of the first Snow Leopard Crossing in Pakistan – Progress So Far (Ms. Neshmiya A. Khan, Manager, Legal, Policy & Safeguards, World Wide Fund for Nature-Pakistan)
14:35-14:50	Environmental Impacts of Road Infrastructure and Active Control Technologies (Prof. Huili, Tongji University, China)

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14:50-15:05	Progress and Challenges in Protecting Asian elephants from New Roads and Railways (Mr. Rob Ament, Senior Conservation Advisor, Center for Large Landscape Conservation; Co-chair, IUCN's Asian Elephant Transport Working Group, USA)
15:05-15:20	Impact of Road Network on the Coupling Relationships Between Forest Resilience and Fragmentation in China (Prof. Xisheng Hu, Vice President, Fujian Agriculture and Forestry University, China)
15:20-15:40	Tea break and Poster Viewing
15:40-15:55	Research on Quantitative Assessment and Prediction of Ecological Risks in Railway Corridor (Prof. Xiaochun Qin, Beijing Jiaotong University, China)
15:55-16:10	How to Handle the Processing of Reports for the Various Environmental Impacts at Highways' Projects in Myanmar (Ms. Ei Khaing Myint, Department of Highways, Ministry of Construction, Myanmar)
16:10-16:25	Landscape Ecological Impacts of Transportation Network and the Spatial Optimization Pathway in National Parks (Prof. Gaoru Zhu, Beijing Jiaotong University, China)
16:25-16:40	Global Open Access to Mortality Data: A Step Toward Safer Transport Infrastructure for Wildlife (Prof. Clara Grilo, CIBIO, University of Lisbon, Portugal)
16:40-16:55	From Cultural Engagement to Green Travel: Associations Between Adolescents' Cultural Extracurricular Activities and Sustainable Transport Behaviours in Young Adulthood (Prof. Jinpeng Li, Shandong University of Science and Technology, China)
16:55-17:10	History and Policy of Road Ecology in Japan (Yoichi Sonoda, Representative Secretary, Road Ecology Research Society of Japan, Japan)

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17:10-17:20	Closing remarks of the day (Aili Kang, Director, China Global Investment and Impact Program, Wildlife Conservation Society(WCS), China)
17:20-17:30	Conclusion and closing remarks (Prof. Jiding Chen, President, CATS,MOT, China)
Parallel Session II: Green Development Technologies and Practices for Transportation Infrastructure (Moderator: Dr. Xinjun Wang, Vice Director, CATS, China)	
13:30-13:35	Introduction of the session
13:35-13:50	Ecological Protection and Restoration in China's Highway Construction: Theory and Practice (Dr. Shuangcheng Tao, Vice Director, CATS, China)
13:50-14:05	Overcoming roadblocks to tiger recovery in Northeast China: Securing ecological corridors to benefit both tigers and people (Scott Waller, Regional Technical Specialist, Temperate Asia Regional Program, Wildlife Conservation Society (WCS), USA)
14:05-14:20	Practical Experience in Ecological Protection and Construction of the Pinglu Canal (Dr. Zhaoxing Han, Transport Planning and Research Institute, MOT,China)
14:20-14:35	Theoretical and Practical Aspects of Soil Reconstruction and Vegetation Restoration in Damaged Ecosystems on Highways (Prof. Guilong Song, Beijing Forestry University, China)
14:35 -14:50	The distribution and influencing factors of bird diversity around roads based on China's birdwatching big data (Dr. Qitao Wu, Guangzhou Institute of Geography, China)
14:50 -15:05	Water transportation green development technology (Jianbo Hu, chief engineer, Tianjin Research Institute for Water Transport Engineering, MOT, China)

15:05-15:20	Effect of Reducing Vehicle Speed by Installing Warning Sign for Yezo Deer-Case Study on National Road 36 in Hokkaido, Japan (Dr. Yuka Suetsugu, College of Science and Technology, Nihon University, Japan)
15:20-15:40	Tea break and Poster Viewing
15:40-15:45	Special Session for Young Scientists (Moderator: Dr. Qilin Li, Hianan Tropical Ocean University, China)
15:45-16:00	Evaluation of the Impact of Highway Construction in High-Altitude Areas on Soil Environment (Prof. Longxi Cao, Chengdu University of Technology, China)
16:00-16:15	A Multi-Scale Integrated Approach to Site Selection of Wildlife Crossing structures along Highways in China (Dr. Yangang Yang, CATS, China)
16:15-16:30	Quantifying and Scenario Modelling Carbon Emissions in Cable-Stayed Bridge Construction: Analysing Materials Production, Transportation, and Machinery Use with openLCA and LEAP (Vicky Wangechi Wangari, Beijing Jiaotong University, Kenya)
16:30-16:45	Observation on Ecological Compensation and Fish Gathering Effect of Artificial Reef in Shuifu Port (Yan Xing, Tianjin Research Institute for Water Transport Engineering, MOT, China)
16:45-17:00	Analysis of Roadkill Incidents of Wild Animals in the Roadside Areas During the Epidemic Prevention Period (Guoqiang Shi, Vice director, Changbai Mountain Academy of Sciences, China)
17:00-17:15	Assessing the impact of climate change on winter road maintenance and its environmental implications (Dr. Shuhao Huo, Nankai University, China)

Parallel Session III: Towards functional ecological corridors through transportation networks: Challenges and solutions on cumulative impact assessment on ecological connectivity

(Moderators: Lazaros Georgiadis, member of the Governance Board / Infrastructure & Ecology Network Europe (IENE), external expert of Centre for Research & Technology Hellas (CERTH) / Hellenic Institute of Transport (HIT) / Greece; Dr. Yun Wang, researcher, CATS, China)

13:30-13:35	Introduction of the session <u>Part A: Linear infrastructure and large mammal movements in Asia</u>
13:35-13:55	Global Initiative on Ungulate Migration: The Atlas of Ungulate Migration (Janey Fugate, CMS, USA)
13:55-14:15	Central Asian Mammals and Infrastructure Development (Nandia Dejid, Senckenberg Biodiversity and Climate Research Centre, Germany)
14:15-14:30	Cumulative impact assessment of highways and railways on ungulates in the Tibetan plateau (Abudusaimaiti Maierdiyali, Peking University & CATS, China)
	<u>Part B: Defragmentation and biodiversity conservation</u>
14:30-14:50	Dynamic symbiosis model of wildlife along Mombasa-Nairobi-Malaba railway (Tong Chu, Vice President, China Road & Bridge Corporation, China)
14:50-15:05	The European Defragmentation Map Initiated by IENE. (Marita Bocher, BfN, Germany)
15:05-15:20	Contribution of Infrastructure Operations to Achieving the Targets of the Austrian Biodiversity Strategy 2030+. (Elke Hahn, Federal Ministry of Innovation, Mobility and Infrastructure, Austria)
15:20-15:35	Potential Solutions for Defragmentation included at the online Biodiversity and Infrastructure Handbook for Action coordinated by IENE. (Carme Rosell, Minuartia, Wildlife Consultancy Company, Spain)



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15:35-15:55	Tea break and Poster Viewing
	<u>Part C: Roundtable: Addressing challenges and solutions</u>
15:55-16:10	Introduction for session (Lazaros Georgiadis and Yun Wang)
16:10-17:00	Panel discussion (all the presenters and proposed panelists) Mr. Jie Gao, Former Director, Center for Environmental Protection of Ministry of Transport, China; Mr. Zhiyong Fan, Former Chief Scientist, WWF-China; Dr. Jiajia Zheng, Professorate Senior Engineer, China Road & Bridge Corporation, China; Dr. Benjamin Lee, Royal Commission for AlUla, Saudi Arabia Ms. Wendy Collinson-Jonker, Co-chair, African Conference for Linear Infrastructure & Ecology, South Africa Alexander F. Levy, Former Chair, TRB Committee on Ecology and Transportation, USA
17:00-17:10	Remarks of round table (Lazaros Georgiadis and Yun Wang)

24th October 2025 (Friday)

09:00–12:00 (Beijing Time)

Field trip day

Beijing Olympic forest park

