



Call for Abstracts: 3rd Asia Transportation Ecology Forum

Beijing, October 23-24, 2025 (In-Person/Online)

Organizers:

China Academy of Transportation Sciences, Ministry of Transport (MOT)

China Sustainable Transport Innovation Center

Co-Sponsors:

China Highway & Transportation Society	Infrastructure and Ecology Network
Beijing Jiaotong University	Europe (IENE)
Tianjin Research Institute for Water	Wildlife Conservation Society (WCS)
Transport Engineering, MOT	Zoological Society of London (ZSL)
Transport Planning and Research Institute,	IUCN World Commission on Protected
MOT	Areas (IUCN WCPA)
Beijing Forestry University	IUCN WCPA Connectivity
Southwest Petroleum University	Conservation Specialist Group's
China Road & Bridge Corporation	Transport Working Group (TWG)
Peking University	Road Ecology Research Society of
	Japan
	Australasian Network of Ecology and
	Transportation (ANET)

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可持续交通创新中心

China Sustainable Transport Innovation Center



WCPA
WORLD COMMISSION
ON PROTECTED AREAS



中国公路学会
China Highway & Transportation Society



中国路桥
CHINA ROAD AND BRIDGE CORPORATION



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



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Introduction

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 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 is profoundly changed our modern life. Innovations such as artificial intelligence and big data are expected to play a significant role in shaping the

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future transportation. Accordingly, the conference also welcomes in-depth discussions on the implications and applications of these technologies within the context of transportation ecology..

Call for Participation and Abstract Submission

The **Third Asia Transportation Ecology Forum** invites scholars, researchers, and practitioners to submit abstracts for presentation. The forum aims to foster academic exchange and practical dialogue on a wide range of topics within the field of transportation ecology. While the following themes are proposed as focal points for the conference, submissions are not limited to this list:

1. Impact of Transportation Infrastructures on Wildlife and Mitigation Strategies
 - Habitat loss, degradation, and fragmentation
 - Wildlife-vehicle collision (roadkill, injuries, fatalities)
 - Road-effect zones
 - Barrier impacts and ecological connectivity
 - Mitigation measures (e.g., wildlife crossing structures, habitat restoration)
2. Impact on Vegetation and Ecological Restoration
 - Conservation of roadside vegetation
 - Vegetation restoration and reconstruction
 - Prevention of invasive alien plant species
 - Road slope maintenance and ecological monitoring
3. Transportation Infrastructure and Water Environments
 - Ecological impacts on water-sensitive areas
 - Migration and control of waterborne pollutants from transportation
 - Monitoring and transportation of transport-related water pollution
 - Integrated utilisation of water resources in transportation projects
4. Transportation-Related Pollution and Prevention Measures
 - Air pollution analysis and emission control
 - Noise and vibration mitigation
 - Treatment and recycling of solid
5. Low-Carbon Transportation Development
 - Application of new energy technologies in transportation



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- Energy conservation and carbon reduction strategies
 - Quantification and management of transport-related carbon emissions
 - Development of near-zero carbon transport infrastructure
 - Use of low-carbon materials in transport projects
6. Environmental Impact Assessment and Management
- Strategic Environmental Impact Assessment
 - Environmental impact assessment at a planning level
 - Application of mitigation hierarchy frameworks
7. Policy and Management in Transportation Ecology
8. Standards and Regulations for Sustainable Transportation Development
9. Emerging Technologies and Innovation
- Applications of artificial intelligence, big data, and other advanced technologies in transportation ecology
10. Citizen Science, Public Participation, and Stakeholder Engagement

Abstract Submission Guidelines

Please adhere to the following format when preparing your abstract:

Title: Concise and reflective of the research or practical application

Keywords: A maximum of 5 words

Abstract Content: Limited to 500 words

Submission Notes

1. Figures and formulas should not be included in the abstract.
2. All submissions must be original and unpublished.
3. Abstracts may be submitted in either Chinese or English.

Abstracts should be submitted via email to the organisers with the subject line formatted as [Your Name] + [Institution] + [Title of Abstract].

Please indicate your preferred **presentation format** (oral presentation or poster) and **mode of attendance** (in-person or online) in your submission email.

Accepted abstracts will receive an official invitation to present at the forum and will be published in the conference's online abstract collection following the event.

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Submission Deadline

The deadline for abstract submission is **30 June 2025**.

Contact Information

Please submit your abstract to the organising committee at the following contact:



China Academy of Transportation Sciences

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