



# International Forum on Sustainable Infrastructure: Integrating Climate Resilience and Natural Capital into Transport Infrastructure Planning and Design

**Hanoi, Viet Nam / 17–18 May 2017**

*A forum for decision makers and experts to deliberate and draft guiding principles for planning, designing and financing climate-resilient and ecologically sound transport infrastructure.*

### Hosted by:

Viet Nam Ministry of Natural Resources and Environment (MONRE)  
Viet Nam Institute of Strategy and Policy on Natural Resources and Environment (ISPONRE)  
Greater Mekong Subregion - Core Environment Program (GMS - CEP)  
Asian Development Bank (ADB)  
World Wildlife Fund (WWF)

### Program

Day 1 – Wednesday 17 May 2017			
Time	Session	Topic	Speaker
8:00	Registration		
8:30	Opening Session		
	Welcome Remarks	Opening the Forum	<b>MC:</b> Ms. Doan Ngoc Khanh, ISPONRE, Viet Nam
		Vietnam's Challenge: to Connect and Protect	<b>Associate Professor Dr. Nguyen The Chinh;</b> Director General, ISPONRE, MONRE, Viet Nam
		Meeting Asia's infrastructure needs while ensuring sustainability	<b>Mr. Eric Sidgwick;</b> Viet Nam Country Director, Asian Development Bank
		Ecosystem services and natural capital – the role of civil society	<b>Dr. Van Ngoc Thinh;</b> Country Director, WWF Viet Nam Country Office
		Overview of the Forum and the Program	<b>Facilitator: Mr. Tim Ward;</b> Intermedia Communications Training, US
	Keynote Speech	An infrastructure tsunami is on our horizon: Can we shift its course and achieve sustainability?	<b>Dr. William Laurance;</b> Distinguished Research Professor, James Cook University, Australia
		Q & A	
9:50	Group Photo and Coffee Break		
10:20	Group Session		
	Tradeoff! Infrastructure.	<b>A participatory activity about the challenges of development planning decision making.</b> Roads can open pathways to prosperity, but they can also impact the environment and people in unintended ways. Participants will form interdisciplinary teams to collaborate on developing plans for a new road project and gain insights into the tradeoffs and synergies between road development and the benefits from natural capital.	<b>Facilitators:</b> <b>Dr. Lisa Mandle;</b> Senior Scientist, Natural Capital Project, Stanford University Woods Institute for the Environment, US  <b>Dr. Nirmal Bhagabati;</b> Lead Scientist, Natural Capital, WWF US

Day 1 – Wednesday 17 May 2017			
Time	Session	Topic	Speaker
11:50	Lunch		
13:00	Plenary Session		
	<b>Country Cases</b>	<b>Meeting the Challenge:</b> Experiences in developing ecologically sound and resilient infrastructure.	<b>Facilitator: Mr. Tim Ward;</b> Intermedia Communications Training, US
	<b>Vietnam</b>	Integrating Natural Capital in development planning and transport in Viet Nam.	<b>Dr. Kim Thuy Ngoc;</b> Institute for Strategy and Policy on Natural Resources and Environment, Viet Nam
	<b>Nepal</b>	Shifting infrastructure expansion to address sustainability: a new alignment to avoid Chitwan National Park.	<b>Mr. Ananta Acharya;</b> Joint Secretary, Foreign Aid and Quality Standard Division, Ministry of Physical Infrastructure and Transport, Nepal
	<b>Colombia</b>	Applying green growth principles to future infrastructure development. Building on lessons from the Pasto Mocoa Road.	<b>Mr. Rodrigo Botero Garcia;</b> Director General, Conservation and Sustainable Development Foundation, Colombia  <b>Ms. Maria Alejandra Gonzalez;</b> Climate Change Sectorial Mitigation Officer, WWF Colombia
	Q and A		
13:50	Introduction		
	<b>Introduction to the Theme Sessions</b>	<b>Format and Flow</b> – Explanation and instructions on how the Forum Theme Sessions and discussions will proceed.	<b>Facilitator: Mr. Tim Ward;</b> Intermedia Communications Training, US
14:00	Theme 1		
	<b>Designing Ecologically Sensitive Transport Infrastructure</b>	<b>Capitalizing on opportunities</b> and addressing constraints generated by biodiversity and ecosystem services.	<b>Session moderator:</b> <b>Dr. Ashley Brooks;</b> Habitats and Human Wildlife Conflict, WWF Tigers Alive, WWF International, Cambodia
		<b>India Country Case:</b> <b>Setting national guidelines:</b> 'Ecofriendly measures to mitigate impacts of linear infrastructure on wildlife' in India. <b>Promoting Smart Green Infrastructure</b> - lessons learnt from conservation landscapes in India.	<b>Dr. Vinod B. Mathur;</b> Director of the Wildlife Institute of India  <b>Dr. Dipankar Ghose;</b> Director, WWF India Secretariat, India
		<b>Designing and applying mitigation measures</b> for wildlife interactions with transport infrastructure in South Asia.	<b>Ms. Karma Yangzon;</b> Environment Specialist, South Asia Transport Division, Asian Development Bank, Philippines
		<b>Global overview of best practices</b> in wildlife friendly infrastructure design - improving safety, maintaining wildlife populations, increasing efficiency.	<b>Dr. Rodney van der Ree;</b> Adjunct Professor, University of Melbourne, Australia
	Q & A		
	<b>Group Discussion</b> - Discuss and gather ideas for draft principles		
15:30	Coffee Break		

Day 1 – Wednesday 17 May 2017			
Time	Session	Topic	Speaker
15:45	<b>Theme 2</b>		
	<b>Building Resilient Infrastructure Working with Nature and Bioengineering</b>	Assessing risks and benefits, resilient and low-carbon approaches, and the use of natural infrastructure.	<b>Session Moderator:</b> <b>Dr. Jeremy Carew-Reid;</b> Director General, International Center for Environmental Management (ICEM), Hong Kong
		<b>Promoting climate resilient rural infrastructure</b> through green infrastructure and bioengineering in Northern Viet Nam.	<b>Dr. Jeremy Carew-Reid;</b> Director General, International Center for Environmental Management (ICEM), Hong Kong
		<b>Using green infrastructure programs</b> as a part of catchment planning.	<b>Dr. Matt Francey;</b> CEO, Alluvium Consulting, Australia
		<b>Improving the sustainability of low-cost infrastructure</b> using “green” approaches.	<b>Mr. John Howell;</b> Director, Living Resources, UK
		<b>Infrastructure and Disasters – ‘Building Materials Environmental Guide’:</b> A new tool for responsible material selection, sourcing and use in resilient reconstruction.	<b>Dr. Missaka Hettiarachchi;</b> Environment and Disaster Management Program, WWF US, Sri Lanka
		Q & A	
<b>Group Discussion -</b> Discuss and gather ideas for draft principles			
17:15	<b>Closing Plenary</b>		
		Wrapping up Day 1 and Mapping out Day 2	<b>Ms. Kate Newman;</b> Vice President, Forest and Freshwater Public Sector Initiatives, WWF US
		Close the day and open the reception and exhibit	<b>Mr. Tim Ward;</b> Intermedia Communications Training, US
17:30 – 19:30	<b>Cocktail and Hors d’oeuvres Reception</b>		<b>Poster and Display Exhibit</b>

Day 2 - Thursday 18 May			
Time	Session	Topic	Speaker
9:00	Plenary		
	Welcome	Overview of Day 1 Results and Day 2 Agenda	<b>Facilitator: Mr. Tim Ward;</b> Intermedia Communications Training, US
9:15	Theme 3		
	Facilitating Finance for Sustainable Infrastructure  Panel Discussion	<b>Why a multi-stakeholder approach</b> is key to financing sustainable infrastructure. Setting the scene.	<b>Moderator:</b> <b>Ms. Barbara Weber;</b> B. Capital Partners, Switzerland
		<b>NGOs and Governments drive change towards sustainable infrastructure.</b> Public Climate Funds – how they can best be leveraged to attract private capital.	<b>Dr. David McCauley;</b> Senior Vice President, Policy and Government Relations, WWF US
		<b>Role of insurance.</b> How environmental and social risks play out in infrastructure-related insurance.	<b>Mr. Thomas Kessler;</b> Head, South East Asia and East Asia, Swiss Re Global Partnerships, Singapore
		<b>Credit Rating Agencies (CRA) – Environment, Social and Governance (ESG) - Sustainability Thought Leaders.</b> How CRAs can play a catalytic role in driving sustainable finance and infrastructure.	<b>Mr. Promod Dass;</b> Deputy CEO, RAM Ratings, Malaysia
		<b>Responsible lending can drive sustainable infrastructure projects.</b> How funding can be directed to sustainable infrastructure via responsible lending terms and conditions.	<b>Mr. Anouj Mehta;</b> Principal Financial Management Specialist, Financial Management Unit, Asian Development Bank, Philippines
	Q & A		
Group Discussion - Discuss and gather ideas for draft principles			
10:45	Coffee Break		
11:00	Theme 4		
	Improving Options with Better Planning	Integrating natural capital and climate into spatial and strategic planning to increase opportunities for multiple benefits.	<b>Moderator:</b> <b>Mr. Lothar Linde;</b> Environment and Spatial Planning Specialist, ADB Technical Assistance on Promoting Ecosystem Services and Forest Carbon Financing, Thailand
		<b>System-level planning:</b> How smart, early planning can accelerate and de-risk infrastructure investment.	<b>Dr. Andrew Deutz;</b> Director, International Government Relations, The Nature Conservancy, US
		<b>Natural Capital and Roads:</b> Integrating ecosystem service information into road planning and design for more sustainable road development.	<b>Dr. Lisa Mandle;</b> Senior Scientist, Natural Capital Project, Stanford University Woods Institute for the Environment, US
		<b>Connecting the fragmented habitat of endangered mammals</b> in the landscape of Riau–Jambi–Sumatera Barat (RIMBA), central Sumatra, Indonesia.	<b>Dr. Thomas Barano;</b> Conservation Science Leader, WWF Indonesia and Fellowship Researcher, Copernicus Institute, Geoscience Faculty, Utrecht University, Netherlands
		<b>Infrastructure, impact and uncertainty:</b> Scenario-based approaches to upstream design, wildlife connectivity and sustainable construction in transport planning for southern Myanmar.	<b>Mr. Ashley Scott Kelly;</b> Assistant Professor, Faculty of Architecture, University of Hong Kong

Day 2 - Thursday 18 May			
Time	Session	Topic	Speaker
		Q & A	
	Group Discussion - Discuss and gather ideas for draft principles		
12:30	Lunch		
13:30	Theme 5		
	<b>Strengthening the Enabling Environment</b>	Policies, laws and regulations to reduce environmental risks and increase incentives for sustainable infrastructure investing.	<b>Moderator:</b> <b>Ms. Sonia Chand Sandhu;</b> Senior Advisor, Office of the Vice President for Knowledge Management and Sustainable Development, Asian Development Bank, Philippines
		<b>De-risking infrastructure projects:</b> prioritizing cross-sectoral coordination and early mitigation planning.	<b>Dr. Hugo Rainey;</b> Project Director, COMBO Project (Conservation, Impact Mitigation and Biodiversity Offsets in Africa), Wildlife Conservation Society, UK
		<b>Establishing globally accepted standards</b> for sustainability in infrastructure development. From pre-project, upstream planning phases to design, construction and operation – is a global consensus emerging?	<b>Mr. Juraj Jurik;</b> Global Infrastructure Basel (GIB) Foundation, Switzerland
		<b>Support for smart and sustainable infrastructure in the Mekong Region.</b> USAID's experiences and lessons in supporting sustainable infrastructure initiatives in this region and possible future directions.	<b>Mr. Alfred Nakatsuma;</b> Director, Regional Environment Office, United States Agency for International Development (USAID) Regional Development Mission for Asia, Thailand
		Country perspective.	<b>Country Representative respondent</b>
		Q and A	
	Group Discussion - Discuss and gather ideas for draft principles		
15:00	Coffee Break		
15:15	Group Session		
	<b>Drafting the Principles</b>	Finalizing recommendations on guiding principles for developing resilient and ecologically sound transport infrastructure	<b>Facilitator: Mr. Tim Ward;</b> Intermedia Communications Training, US
16:40	Final Plenary		
	<b>Conclusions</b>	<b>Key Principles</b> – as developed in the working sessions and <b>Next Steps</b> - charting the way forward.	<b>Mr. Bruce Dunn;</b> Principal Environment Specialist, Asian Development Bank, Philippines
	<b>Final Reflections</b>	<b>Mr. Dhan Bahadur Tamang;</b> Secretary, Ministry of Physical Infrastructure and Transport, Nepal	
	<b>Closing Remarks</b>	Ministry of Natural Resources and Environment, Viet Nam	
17:00	Forum Closes		