GREEN GROWTH KNOWLEDGE PLATFORM ANNUAL CONFERENCE 2017

SUSTAINABLE INFRASTRUCTURE

NOVEMBER 27-28, 2017 WORLD BANK HQ | MC 2-800



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Green Growth Knowledge Platform Annual Conference 2017

SUSTAINABLE INFRASTRUCTURE

November 27-28, 2017 World Bank, 1818 H Street NW, Washington DC | MC 2-800

All papers, presentations and speaker bios can be found at: www.ggkp.org/event/conference2017

November 27, 2017

09:00 - 09:15	Welcome and Opening Remarks
Room: MC 2-800	Laura Tuck, Vice President for Sustainable Development, World Bank
	Opening Remarks from the GGKP Partners
	 Orestes Anastasia, Global Green Growth Institute Kumi Kitamori, Organisation for Economic Co-operation and Development Fulai Sheng, UN Environment
09:15 - 10:00	Keynote
Room: MC 2-800	Mar Reguant, Northwestern University Large Scale Renewables: Successes and Challenges
10:00 - 11:00	Plenary – Powering a Sustainable Future: Understanding Energy Infrastructure Needs
Room: MC 2-800	Chair: Paul Ekins, University College London
	 Keywan Riahi, International Institute for Applied Systems Analysis Energy Investment Needs for Fulfilling the Paris Agreement and Achieving the Sustainable Development Goals Alejandro Moreno, previously World Bank Charting the Diffusion of Power Sector Reform in the Developing World Discussant: Najib Saab, Arab Forum for Environment and Development
11:00 - 11:30	Coffee Break (served outside MC 2-800)

11:30 – 13:00 Parallel Sessions A

Room: MC 2-800 A1 – Transport and Low Carbon Pathways

Chair: Maria Marcela Silva, Transport and ICT Global Practice, World Bank

- Meriem Hamdi-Cherif, International Research Center on Environment and Development
 - The Transportation Sector as a Lever for Reducing Long-term Mitigation Costs in China
- James Seong-Cheol Kang, Global Green Growth Institute
 Sustainable Transport through Provision of Electric Vehicle Taxis: A Case Study in Seoul
- Vivien Fisch, International Research Center on Environment and Development Investment Needs of Transport Infrastructure Along Low Carbon Pathways

Discussant: Shomik Mehndiratta, Transport and ICT Global Practice, World Bank

Room: MC 4-100 **A2 – Rural Electrification**

Chair: Jonathan Coony, Trade and Competitiveness Global Practice, World Bank

- Jörg Peters, RWI- Leibniz Institute for Economic Research
 Demand for Off-grid Solar Electricity: Experimental Evidence from Rwanda
- Fan Zhang, South Asia Region, World Bank
 Benefits of Electrification and the Role of Reliability: Evidence from India
- Moussa Blimpo, Africa Region, World Bank
 The Demand for Rural Electrification in Africa

Discussant: Haileselassie Medhin, Ethiopian Development Research Institute

Room: MC 8-100

A3 (Policy Session) – Infrastructure for Disaster Risk Management: Overcoming Barriers to Scaling up Nature-based Solutions

Chair: Stéphane Hallegatte, Global Facility for Disaster Reduction and Recovery, World Bank

- Bregje van Wesenbeeck, Deltares
 Implementing Nature-based Flood Protection: Principles and Implementation
 Guidance
- Ugo Guarnacci, European Commission
 Co-design, Co-development and Co-implementation of Nature-Based Solutions for
 Urban Resilience: The EU perspective

Discussants:

- o Julie Rozenberg, Sustainable Development Practice Group, World Bank
- Glenn-Marie Lange, Environment and Natural Resources Global Practice, World Bank
- Jonny Sadler, Manchester Climate Change Agency

13:00 – 14:00 Lunch (served outside MC 2-800)

14:00 – 15:30 Parallel Sessions B

Room: MC 2-800 **B1 – Energy, Infrastructure and Low Carbon Pathways**

Chair: Norbert Kurilla, State Secretary in the Ministry of Environment, Slovakia

- Stefan Ambec, Toulouse School of Economics
 Decarbonizing Electricity Generation with Intermittent Sources of Energy
- Dina Subkhankulova, University College London Energy Institute
 Demand Side Management: A Case for Disruptive Behavior
- Prudence Dato, Savoie Mont Blanc University
 Investment in Energy Efficiency, Adoption of Renewable Energy and Household
 Behaviour: Evidence from OECD countries

Discussant: **Ron Benioff**, National Renewable Energy Laboratory and Low Emission Development Strategies Global Partnership

Room: MC 4-100 **B2 – Transport and Structural Transformation**

Chair: Cletus Springer, Organization of American States

- Théophile Bougna, Development Research Group, World Bank Roads and the Geography of Economic Activities in Mexico
- Sam Asher, Development Research Group, World Bank
 The Ecological Footprint of Transportation Infrastructure
- Simon Alder, University of North Carolina at Chapel Hill
 The Effect of Transport Infrastructure on India's Urban and Rural Development

Discussant: Nancy Lozano-Gracia, Urban, Rural and Social Global Practice, World Bank

Room: MC 8-100 B3 (Policy Session) – A Sustainable Look at the Belt and Road Initiative

Chair: Mustafa Moinuddin, Institute for Global Environmental Strategies

- Kumi Kitamori, Organisation for Economic Co-operation and Development
 The Low-Carbon Transition and Sustainable Infrastructure
- Fulai Sheng, UN Environment
 Belt and Road: Opportunity and Challenges for Sustainable Development
- Somik Lall, Urban, Rural and Social Global Practice, World Bank
 Who Wins, Who Loses: Articulating the Spatially Differentiated Impacts of BRI Investments

15:30 – 16:00	Coffee Break (served outside MC 2-800)
16:00 – 17:30	Plenary – Going with the Flow: Water Infrastructure and Sustainable Development
Room: MC 2-800	Chair: Guang Zhe Chen, Water Global Practice, World Bank
	 Ahmed Mushfiq Mobarak, Yale University <i>No Sh*t: Demand Estimation with Strategic Complementarities with an Application to Sanitation in Bangladesh</i> Edward Glaeser, Harvard University <i>Water, Health and Wealth</i> Richard Damania, Water Global Practice, World Bank <i>Uncharted Waters: The Economics of Water Scarcity and Variability</i> Discussants: Jim Hall, University of Oxford

Conference Dinner

November 28, 2017

19:00

09:00 - 09:45	Keynote
Room: MC 2-800	Catherine Wolfram , Haas School of Business, University of California Berkeley <i>Energy and Development</i>
	Discussant: Moussa Blimpo, Africa Region, World Bank
09:45 - 11:00	Plenary – Regulation for Sustainable Infrastructure
Room: MC 2-800	Chair: Bruno Oberle, École polytechnique fédérale de Lausanne
	 Emmanuelle Auriol, Toulouse School of Economics Can Supranational Infrastructure Regulation Compensate for National Institutional Weaknesses? Stéphane Straub, Toulouse School of Economics Funding and Financing Regulated Infrastructure Michael Grubb, University College London The Policy and Regulation of UK Electricity Market Reform Discussant: Thomas Heller, Climate Policy Initiative
11:00 - 11:30	Coffee Break (served outside MC 2-800)

11:30 - 13:00 Parallel Sessions C

Room: MC 2-800 C1 – Roads, Deforestation and Agricultural Productivity

Chair: Karla Gonzalez Carvajal, Transport and ICT Global Practice, World Bank

- Juliano Assunção, Climate Policy Initiative and PUC-Rio Agricultural Productivity and Deforestation in Brazil
- David Kaczan, Environment and Natural Resources Global Practice, World Bank Can Roads Contribute to Forest Transitions?
- Eduardo Souza-Rodrigues, University of Toronto
 A Structural Dynamic Land Use Model for the Amazon Rainforest

Discussant: Nicolas Gerber, Center for Development Research, University of Bonn

Room: MC 4-100 **C2 – Adaptation and Long Term Decision-Making**

Chair: Arame Tall, Climate Change, World Bank

- Christian Gollier, Toulouse School of Economics
 Term Structures of Discount Rates: An International Perspective
- Ki Han Song, Korea Transport Institute
 Application of DMDU (Decision Making Under Uncertainty Methodology) on
 Korean Transportation Infrastructure Feasibility Study
- Raghav Pant, Environmental Change Institute, University of Oxford System-of-Systems Framework for Global Infrastructure Vulnerability Assessments

Discussant: Joe Grice, Office of National Statistics, United Kingdom

Room: MC 5-100

C3 (Policy Session) –Assessing the Sustainability and Resource Requirements of Infrastructure Strategies

Chair: Raouf Dabbas, Friends of Environment, Jordan

- Anu Ramaswami, University of Minnesota
 The Weight of Cities: Resource Requirements of Future Urbanisation
- Roy Brooke, Municipal Natural Assets Initiative
 Municipal Natural Asset Management as a Sustainable Infrastructure Strategy:
 The Emerging Evidence
- Oshani Perera, International Institute for Sustainable Development
 Sustainable Asset Valuation (SAVi) Tool
- Josh Sawislak, AECOM and Ryan Bartlett, WWF
 Assessing the Sustainability and Climate Resilience of Infrastructure to Catalyse
 Better Decisions

13:00 – 14:00 Lunch (served outside MC 2-800)

14:00 – 15:30 Parallel Sessions D

Room: MC 2-800 D1 – Mitigation and Long Term Decision-Making

Chair: Kevin Urama, African Development Bank

- Jan Siegmeier, Mercator Research Institute on Global Commons and Climate Change
 - Keeping Pigou on Tracks: Second-best Carbon Pricing and Infrastructure Provision
- Alexander Pfeiffer, Institute for New Economic Thinking, Oxford
 Dead on Arrival? Implicit Stranded Assets in Leading IAM Scenarios

Discussant: **Nick Robins**, Inquiry into the Design of a Sustainable Financial System, UN Environment

Room: MC 4-100 D2

D2 - Adaptation and Flooding

Chair: K. Vijaya Lakshmi, Development Alternatives

- Robert J. Nicholls, University of Southampton
 Global Investment Costs for Coastal Defense Through the 21st Century
- Xi Hu, University of Oxford
 The Spatial Exposure of China's Infrastructure System to Flooding Risks in the Context of Climate Change
- Xavier Espinet Alegre, Sustainable Development Practice Group, World Bank Prioritization of Road Interventions in Nampula and Zambezia, Mozambique under Changing Flood Risk and Other Deep Uncertainties

Discussant: Jaco Tavenier, Oragnisation for Economic Co-operation and Development

Room: MC 5-100 D3 (Policy Session) – Implementing Sustainable Infrastructure

Chair: **Alexandra Oppermann**, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

- Maria Cecilia Ramirez, Inter-American Development Bank
 Lessons from Four Decades of Infrastructure Project Related Conflicts in Latin
 America and the Caribbean
- Michael Mullan, Organisation for Economic Co-operation and Development Climate-Resilient Infrastructure: Getting the Policies Right
- Raffaello Cervigni, Environment and Natural Resources Global Practice, World Bank

Enhancing the Climate Resilience of Africa's Infrastructure

15:30 – 16:00 Coffee Break (served outside MC 2-800)

16:00 – 17:30 Plenary – Sustainable Finance & Viable Investments: Where the Twain Shall Meet

Room: MC 2-800 Chair: Jordan Schwartz, Infrastructure, PPPS and Guarantees, World Bank

- Maria Eduarda Gouvea Berto, Secretary of Finance, Municipality of Rio de Janeiro, former Managing Director, Estruturadora Brasileira de Projetos (EBP)
- Nick Robins, Co-Director, Inquiry into the Design of a Sustainable Financial System, UN Environment
- Leonardo Martínez-Díaz, Global Director, Sustainable Finance Center, World Resources Institute
- James Hempstead, Managing Director, Moody's Investors Services
- Patricia Rollin, Managing Director, Wye Holdings

17:30 – 17:45 Closing Remarks

Room: MC 2-800 Chair: Benjamin Simmons, Green Growth Knowledge Platform

- Kumi Kitamori, Organisation for Economic Co-operation and Development
- o Marianne Fay, Sustainable Development Practice Group, World Bank

ABOUT THE GGKP

The Green Growth Knowledge Platform (GGKP) is a global partnership of international organizations and experts that identifies and addresses major knowledge gaps in green growth theory and practice. Founded by the Global Green Growth Institute (GGGI), the Organisation for Economic Co-operation and Development (OECD), the United Nations Environment Programme (UN Environment) and the World Bank, the GGKP draws together over 50 partner organizations.

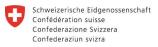
Each year the GGKP's founding partners alternate the hosting of the Annual Conference. This year, the Fifth GGKP Annual Conference is hosted by the World Bank. The Sixth GGKP Annual Conference will be hosted by the OECD in Paris, France, in late 2018.











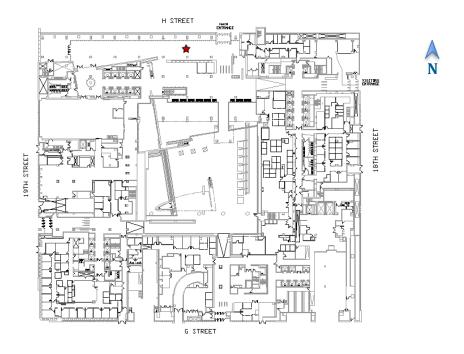
Swiss Confederation

The Green Growth Knowledge Platform is financially supported by the Swiss Confederation

ROOM LOCATIONS

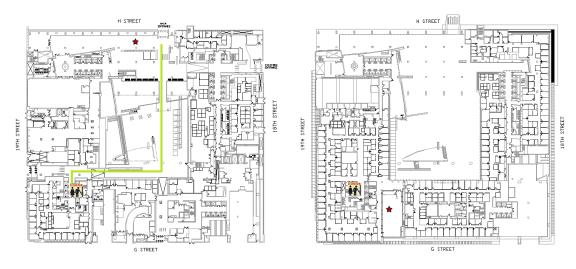
Registration

Conference registration is located on the ground level of the MC building. External participants must enter through the H Street entrance (1818 H Street NW), and pass through security to collect their conference badge.



MC 2-800

All conference plenaries, coffee breaks and lunches will take place in room MC 2-800, located on the second floor. Use the SW elevators to access the room. The map below shows how to access the room from the registration desk.



MC 4-100, MC 5-100, MC 8-100

MC 4-100 (located on the fourth floor), MC 5-100 (located on the fifth floor) and MC 8-100 (located on the eighth floor) can be accessed using any of the building's elevators. To access MC 2-800 from these rooms, use the SW elevators.

