



M.S. Chadha Center on Global India
Developing leadership for the study of India in a global context

First Annual Conference

March 27-28, 2020

Urban Sustainability Transitions in India and the World: Advancing Science & Policy

FINAL AGENDA

Summary: The mission of the M.S. Chadha Center for Global India (CGI) is to address key interactions between India and the world that have potential to transform human and planetary wellbeing, and our imaginaries of the human experience. CGI's first annual conference focuses on India's upcoming massive urbanization, which will bring ~400 million new urbanites to cities by 2050. India's urbanization is occurring against a backdrop of major global challenges (e.g., air pollution, water scarcity, climate change and pandemics) and opportunities (e.g., technological and social innovations). Urban trajectories in India will likely influence urbanization in Southeast Asia and Africa, and profoundly impact global sustainability. Join us to discuss India's urban trajectory and our common quest for sustainability across cities and nations worldwide. Innovations discussed will include: infrastructure transitions, food-energy-water nexus, smart cities, circular economy, public health, nature-based solutions, artificial intelligence, and governance.

Conference Duration

US Eastern Daylight Time

- Fri. Mar. 27, 8:30 am—4:30pm
- Sat. Mar. 28, 9:00 am—2:30 pm

India Standard Time

- Fri. Mar. 27, 6:00 pm—Sat. Mar. 28, 2:00 am
- Sat. Mar. 28, 6:30 pm —Sun. Mar. 29, 12:00 am

This event is co-sponsored by PIIRS, PEI, and the Metropolis Initiative at Princeton SEAS.



Please be aware that the conference will be recorded. This is solely to facilitate note-taking by event organizers, who will write a summary of conference takeaways after the event. The recording will not be used for any purpose beyond note-taking without permission from speakers.

Session 1: Urban Sustainability Innovations (PART A): <https://princeton.zoom.us/s/427743291>

Friday, March 27: 8:30-11:00 am (US Eastern Daylight Time)

Friday, March 27: 6:00-8:30 pm (India Standard Time)

- Main moderator: Anu Ramaswami
- Backup moderator: Jessica Seddon
- Technology Coordinator: Emily Eckart – eeckart@princeton.edu
 - Backup technology coordinator: Rachel Golden
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Final speakers and times:

US Eastern Daylight Time	Indian Standard Time	SESSION 1: Urban Sustainability Innovations in India and the World <i>(Public Livestreamed Panel)</i>
8:30-8:40 am	6:00-6:10 pm	<i>Professor Stephen Kotkin</i> , Director, Princeton Institute for International & Regional Affairs [PIRS]
8:40-9:00 am	6:10-6:30 pm	<i>Anu Ramaswami</i> , Professor of Civil & Environmental Engineering; Director, CGI, Princeton University
9:00-9:15 am	6:30-6:45 pm	<i>Satya Tripathi</i> , Assistant Secretary-General and Head of the New York Office, United Nations Environment Programme
9:15-9:30 am	6:45-7:00 pm	<i>Ani Dasgupta</i> , Global Director, Ross Center for Sustainable Cities, World Resources Institute (no slides)
9:30-9:50 am	7:00-7:20 pm	<i>Ashish Rao-Ghorpade</i> , Assistant Director, ICLEI-South Asia on “Community Based Action and City Pilot Projects in South Asia” (10 minutes) <i>Isabel Wetzel</i> , UNEP – UN Habitat, on “The Green Cities Program” (10 minutes)
<i>Ten-minute break for flexibility and panelist questions</i>		
10:00-10:45 am	7:30-8:15 pm	<i>Manish Gupta</i> , Director, Google Research, India on “Artificial Intelligence (AI) for Social Good in Urban India and the World” (15 minutes) <i>Rakesh Mohan</i> – Senior Fellow, Yale University; Former Deputy Governor, Reserve Bank of India, “Infrastructure, PPPs, Governance” (15 minutes) <i>Sachchida (Sachi) Tripathi</i> , Professor, Indian Institute of Technology, Kanpur – on development of National Air Pollution Knowledge Network (15 minutes)
10:45-11:00 am	8:15-8:30 pm	Q&A moderated by Anu Ramaswami. Questions will be moderated in the interest of time & sound quality

Session 1: Urban Sustainability Innovations (PART B) (Zoom link is same as Part A - <https://princeton.zoom.us/j/427743291>)

Friday, March 27: 11:00 am-12:00 pm (US EDT)

Friday, March 27: 8:30-9:15 pm (IST)

- Main moderator: Jessica Seddon
 - Backup moderator: Anu Ramaswami
- Technology coordinator: Emily Eckart - eeckart@princeton.edu
 - Backup technology coordinator: Rachel Golden
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Final speakers and times:

11:00 am-12n EDT	8:30-9:30 pm IST	<p>Reflections from Researchers on Urban Economy, Innovation and Sustainability in India and the World</p> <ul style="list-style-type: none"> ● <u>Esteban Rossi-Hansberg</u> – Professor, Economics, Princeton University, on “Quantitative Economic Tools to Analyze the Geography of Economic Activity” (10 minutes) ● <u>Bryan Grenfell</u>, Professor of Ecology & Evolutionary Biology and Public Affairs (10 minutes) ● <u>Denise Mauzerall</u>, Professor, Environmental Engineering and International Affairs, Civil and Environmental Engineering, Princeton University - Learnings from air pollution science and policy from China (10 minutes) ● <u>Elie Bou-Zeid</u> (10 minutes) – Professor, Civil & Environmental Engineering, Princeton University on “Translating urban science and technological innovation across nations” <ul style="list-style-type: none"> ● Public Q & A (moderated by Jessica Seddon online) (30 minutes)
<p>**Public livestreaming ends here** Note: with potential for session to go to 12:00 pm for questions</p>		

Session 2: Air Quality, Climate, and Health: <https://princeton.zoom.us/s/406875598>

Friday, March 27: 12:15-2:00 pm (US EDT)

Friday, March 27: 9:45-11:30 pm (IST)

- Main moderator: Jessica Seddon
 - Backup moderator: Dana Boyer
- Technology coordinator: Emily Eckart - eeckart@princeton.edu
 - Backup technology coordinator: Rachel Golden
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US EDT	IST	Session 2: Air Quality, Climate, and Health
12:15-12:30 pm	9:45-10:00 pm	<i>Jessica Seddon</i> , Visiting Fellow, Princeton, and, Global Air Quality Lead, WRI – global perspective <i>Ajay Nagpure</i> , Head, Air Quality, WRI India—city experience (Surat)
12:30-12:50 pm	10:00-10:20 pm	<i>Sachchida (Sachi) Tripathi</i> , Professor, Indian Institute of Technology, Kanpur – on development of National Air Pollution Knowledge Network (15 minutes) <i>Rajesh Kumar</i> – Project Scientist, National Center for Atmospheric Research; Indian Institute of Tropical Meteorology
12:50-1:10 pm	10:20-10:40 pm	<i>Denise Mauzerall</i> , Professor, Environmental Engineering and International Affairs, Civil and Environmental Engineering, Princeton University (7 minutes) <i>Mark Zondlo</i> , Associate Professor, Civil and Environmental Engineering, Princeton University (7 minutes) <i>Anu Ramaswami</i> (5 minutes)
1:10-1:25 pm	10:40-10:55 pm	<i>Thalia Gigerenzer</i> , PhD candidate in Anthropology, Princeton University - Growing Up with Toxicity: Youth Writings on Pollution in Delhi Discussants to provide brief opening remarks (5 minutes each) <i>Gabriel Vecchi</i> , Professor, Geosciences & Princeton Environmental Institute, Princeton University
1:25-2:00 pm	10:55-11:30 pm	Discussion and crafting next steps (led by <i>Jessica Seddon</i>) <ul style="list-style-type: none"> • Research for impact/science-policy interaction • Research priorities
2:00-2:15 pm	11:30 pm – 11:45 pm	Break

Session 3: The Urban Food System - <https://princeton.zoom.us/j/427743291>

Friday, March 27: 8:30-10:00 am (US EDT)

Friday, March 27: 6:00-7:30 pm (IST)

- Main moderator: Anu Ramaswami
- Backup moderator: Jessica Seddon
- Technology moderator: Emily Eckart - eckart@princeton.edu
 - Backup technology coordinator: Rachel Golden
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US EDT: 2:15-4:00 pm	IST: 11:45pm-1:30 am	<p>Session 3: The Urban Food System Public Live-Streamed Session</p> <p>Introduction (5 minutes)</p> <ul style="list-style-type: none"> ● <u>Michael Celia</u>, Director, Princeton Environmental Institute; Professor, Civil & Environmental Engineering, Princeton University ● <u>Anu Ramaswami</u>, Professor of Civil & Environmental Engineering; Director, CGI, Princeton University – Integrating remarks/Moderation <p>Speakers (8-10 minutes each):</p> <ul style="list-style-type: none"> ● <u>Upmanu Lall</u>, Professor and Director of the Water Center, Columbia University - on “Indian and global food-energy-water-climate challenges” ● <u>Dana Boyer</u>, Research Manager, Sustainable Urban Infrastructure Systems Lab, Princeton University - on food action planning, urban demand and environmental impacts in India and USA ● <u>Thomas Reardon</u>, Professor, Dept. of Agricultural, Food and Resource Economics, Michigan State University - Urban food supply chains transformation: India Comparative with Southeast Asia and Africa ● <u>Jason Ren</u>, Professor, Civil and Environmental Engineering; Andlinger Center for Energy and the Environment - Transforming food waste ● <u>Smitha Haneef</u>, Assistant Vice President, University Services, Princeton University – The Private Sector and Food Actions ● <u>Krishnendu Ray</u>, Associate Professor, Food Studies, New York University - Immigrant Lives and Urban Food Systems: Culture and Power <p>REMARKS: Remarks/responses from <u>Andrew Chignell</u>, Professor of Religion & Philosophy (no slides; On Ethics and Food); <u>Jessica Metcalf</u>, Assistant Professor of Ecology, Evolutionary Biology and Public Affairs, Princeton University (10 minutes)</p> <p>Online Audience Q&A (moderated online) for 30 minutes</p>
Public livestreaming ends here		
US EDT: 4:00-4:30 pm	IST: 1:15-2:00 am	<p>Discussion Closed Academic Session on Future Research Directions in Urban Food Systems</p>
Adjourn Day 1 of the Conference		

<https://princeton.zoom.us/j/427743291>

Saturday, March 28: 9:00-10:20 am (US EDT)

Saturday, March 28: 6:30-7:50 pm (IST)

- Main moderator: Shivaji Sondhi
 - Backup moderator: Anu Ramaswami
- Technology coordinator: Emily Eckart - eckart@princeton.edu
 - Backup technology coordinator: Rachel Golden
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DAY 2: SATURDAY, MARCH 28		
US EDT: 9:00-10:20 am	IST: 6:30-7:50 pm	Session 4: How Will Artificial Intelligence in India Impact the World and Transform the Science? <i>Public Live-Streamed Session</i>
9:00-9:05 am EDT	6:30-6:35 pm IST	Welcome and Introduction to the Day's Events <ul style="list-style-type: none"> • <u>Anu Ramaswami</u>, Professor, Director, CGI, Princeton University
9:05-10:05 am EDT	6:35-7:35 pm IST	Panel Discussion <ul style="list-style-type: none"> • <u>Manish Gupta</u>, Director, Google Research, India on "The landscape and opportunity of AI applications and research in India" (20 minutes) • <u>Karthik Narasimhan</u>, Assistant Professor, Computer Science, Princeton University on "Research Frontiers in Natural Language Processing" (10 minutes) • <u>Tithi Chattopadhyay</u>, Associate Director, Princeton's Center for Information Technology & Policy, on: Governing AI (5 minutes) • <u>Sanjeev Arora</u>, Professor, Computer Science, Princeton University on "A Marshall Plan for Jumpstarting AI Research in India" (10 minutes) <p>Moderated by <u>Shivaji Sondhi</u>, Professor, Physics, Princeton University</p> <ul style="list-style-type: none"> • With comments from: <u>Aarti Gupta</u> (Professor, Computer Science, Princeton University) and <u>Ellen Ambrosone</u> (South Asian Studies Librarian, Princeton University, on Digital Humanities), <u>Swati Bhatt</u> (Economics), and others (TBD) (15 minutes max)
10:05-10:20 am EDT	7:35-7:50 pm IST	Q&A <ul style="list-style-type: none"> • Online attendees may submit questions • Questions will be moderated in the interest of time and sound quality
<p>**Public livestreaming ends at 10:20AM EST**</p> <p>Closed Academic Discussion on Next Steps (10:20 to 10:45 AM EDT) (7:50PM to 8:15 PM IST)</p>		

Session 5: Energy Transitions in the U.S. & India: Strategies for Integrating Decarbonization, Energy Access, Smart Grid & Resilience - <https://princeton.zoom.us/j/406875598>

Saturday, March 28: 10:45 am-12:30 pm (US EDT)

Saturday, March 28: 8:15-10:00 pm (IST)

- Main moderator: Anu Ramaswami
 - Backup Moderator: Dana Boyer
- Technology coordinator: Emily Eckart - eeckart@princeton.edu
 - Backup technology coordinator: Rachel Golden
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US EDT: 10:45 am – 12:30 pm	IST: 8:15-10:00 pm	Session 5: Energy Transitions in the U.S. & India: Strategies for Integrating Decarbonization, Energy Access, Smart Grid & Resilience <i>Closed Academic Session</i>
		Understanding the Landscape of the Energy Sector and Transitions in India <ul style="list-style-type: none"> • Ashish Rao-Ghorpade (Electric mobility experiments in India) (7-8 min) • Neeli Srinivas Rajamani, City of Vishakapatnam & Representative of Andhra Pradesh Electric Power Distribution Company Ltd (7-8 min) to discuss energy innovations (with possible comments from APEPDCL) • Rahul Tongia, Fellow, <i>Brookings India</i> (technology and political economy issues in India’s energy transition) (7-8 min) • Ashwin Gambhir, Fellow, Prayas (renewable energy policy and governance) (7-8 min)
		Princeton Ongoing Work <ul style="list-style-type: none"> • Elke Weber on “The Rapid Switch Project” (about 5 minutes) (Professor, Psychology, Princeton University) • Robert Socolow on “The Andlinger Center’s Energy Technology Distillates” (Professor Emeritus, Mechanical and Aerospace Engineering, Princeton University) • Anu Ramaswami on “An urban energy use atlas for India” (about 5 minutes)
		Brainstorming Visions of Future Research <ul style="list-style-type: none"> • Vijay Modi, Columbia University, Professor of Mechanical Engineering - Big Ideas for US-India Collaborations (10 minutes)
		Landscape of US/India Energy Research Collaboration <ul style="list-style-type: none"> • Josh Sperling (National Renewable Energy Laboratory, Urban Futures and Energy-X Nexus Engineer; Project Manager) 10 min DISCUSSANTS: Robert Socolow , (Professor Emeritus, Mechanical and Aerospace Engineering, Princeton University), with additional comments from Sharad Malik , moderator (Princeton University, Professor of Engineering), Minjie Chen (Assistant Professor, Electrical Engineering, Andlinger Center, Princeton University)
		Discussion and crafting next steps (about 30 minutes)

Session 6: Water, Climate and Health - <https://princeton.zoom.us/j/406875598>

Saturday, March 28: 12:45-2:25 pm (US EDT)

Saturday, March 28: 10:15-11:55 pm (IST)

- Main moderator: Jessica Seddon
 - Backup moderator: Dana Boyer
- Technology coordinator: Emily Eckart - eeckart@princeton.edu
 - Backup technology coordinator: Rachel Golden
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US EDT: 12:45-2:25 pm	IST: 10:15 pm-11:55 pm	Session 6: Water, Climate, and Health Closed Academic Session
		India Perspective <ul style="list-style-type: none"> ● <u>Balaji Narasimhan</u> (From IIT- M) presents about multi-dimensional water issues in Chennai - water scarcity and flooding in (both riverine, coastal and intra-urban pluvial, and perhaps also sanitation challenges. (about 10 minutes) ● <u>Jessica Seddon</u> on governance and Chennai’s resilience strategy (5 minutes) ● <u>Anita Arjundas</u>, Krea University on universities’ role in advancing water resilience (5 minutes)
		Princeton Ongoing Work <ul style="list-style-type: none"> ● <u>Amilcare Porporato</u>, Professor, Civil and Environmental Engineering, Princeton University, presents an overview of Princeton’s ongoing project on water, climate and health (5 minutes)
		Future Vision <ul style="list-style-type: none"> ● <u>Upmanu Lall</u> (Professor and Director of the Water Center, Columbia University) and <u>Balaji Rajaopalan</u> (Professor, U Colorado Boulder) present their vision for a research agenda for US scholars working with Indian partners on urban water sustainability and resilience (10 minutes) ● <u>Bhavani Raman</u> (Associate Professor, University of Toronto) (no slides) and <u>Priti Narayan</u> (Fellow, Princeton University) present an overview of their work and vision for research from a humanities and social science perspective (10 min: 5 min each)
		Future Vision Brief: Future Vision Brief: 1-minute TedX-style talks introducing researchers’ work (2 slides each) – 5 minutes total <ul style="list-style-type: none"> ● <u>Jason Ren</u> – Professor, Civil & Envir. Engineering, Princeton University ● <u>Anu Ramaswami</u> Discussants <ul style="list-style-type: none"> ● <u>James Smith</u> (Professor, Princeton University) and <u>Gyan Prakash</u> (Professor, Princeton University) provide reflections from engineering and humanities perspectives (10 minutes)
		Discussion and crafting next steps (about 40 minutes)
US EDT: 2:25-2:30 pm	IST: 11:55 pm-12:00 am	Closing and THANK YOU

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