

Systematizing and upscaling urban solutions for climate change mitigation (SUUCCM)

September 13			
08:30	Registration		WINTER GARDEN
Session 1 Demand			CHIMNEY ROOM
09:00	Welcome and overview, Chairing Session Demand		
09:05	Felix Creutzig	Keynote: Scaling up urban solutions for climate change mitigation	
09:30	Elke Weber	Keynote: Modeling Energy and Environmental Behavior from Individual to City Level: Challenges, Opportunities, and Tools	
10:00	Arnulf Grübler	Keynote: Low-energy demand solutions for climate change mitigation in urban settings	
10:30	Coffee break		
Session 1a Demand (Chair Radhika Khosla)		MIDDLE ROOM	Session 2a Mitigation & Adaptation (Chair Maria Figueroa)
			CHIMNEY ROOM
10:50	Samira Siddique	Distributed Solar Energy for Urban Climate-Induced Migrants	10:50 Yuli Shan City-level estimates of CO ₂ emissions for 182 Chinese cities
11:10	Franziska Meinherz	Exploring transition pathways of habitual transport behaviour	11:10 Vincent Viguie Early adaptation to heat waves and future energy use reduction in cities
11:30	Basile Pfeiffer	Density and air quality : an integrated modelling approach	11:30 Catherine Nangini A global dataset of CO ₂ emissions and ancillary data related to emissions for 343 cities
11:50	Mohit Arora	Linking Demolitions to Design in Urban Built Environments	11:50 Jimi Oke Discovering sustainable future urban mobility policies via simulation of prototype cities from global urban typologies
12:10	Lunch		
			WINTER GARDEN

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Session 2 Mitigation & Adaptation		CHIMNEY ROOM
13:30	Vincent Viguie	Chairing Session Mitigation & Adaptation
13:35	Sebastian Bamberg	Keynote: From the self-interested decision maker to the socially imbedded collective actor - The psychological debate on effective behavioral change principles
14:05	Shuaib Lwasa	Keynote: Cities' mitigation and adaptation: an outlook
14:35 Coffee break		
Session 1b Demand (Chair Aneeqe Javaid)		MIDDLE ROOM
Session 2b Mitigation & Adaptation (Chair Vincent Viguie)		CHIMNEY ROOM
15:00	Radhika Khosla	Establishing and upscaling urban demand-side mitigation solutions in affordable households in India
15:20	Sohail Ahmad	Spatially contextualized analysis of energy use for commuting in India
15:40	Anjali Ramakrishnan	Short term goals and long term priorities: The Avoid-Shift-Improve policy framework for Demand-side Climate Change Mitigation
16:00	Minal Pathak	Electric Vehicles in Indian cities: Moving from the margins to the mainstream
16:20	Lutz Meyer-Ohlendorf	Drivers of Climate Change in Urban India: Social Values, Lifestyles, and Consumer Dynamics in an Emerging Megacity
16:40		
15:00	William Lamb	Learning about urban mitigation solutions
15:20	Paul Pichler	Benchmarking Urban Greenhouse Gas Footprints
15:40	Olewuike Eric Ugochukwu	City Expansion and Urban Heat Islands in Nigeria's South East
16:00	Kangning Huang	Global forecasts of urban land expansion and heat island intensification by 2050 and the implications for climate mitigation
16:20	Zakia Soomaaroo	Insular Frontrunners: The special opportunity of island states to transition to low-carbon mobility systems
16:40	Steffen Lohrey	Urban heat waves and the global poor
17:00 Coffee break		
17:15		CHIMNEY ROOM
Panel: Kathryn Janda, Yoshiki Yamagata, Kevin Gurney, Arnulf Grübler, Diana Ürge-Vorsatz, Moderator: Jan Minx		What have we learned on how to systematize and upscale urban climate change mitigation solutions? What are the next steps that each of us can take to foster systematic research and help building a global urban sustainability science?
18:30 Leaving for dinner at beer garden "Golgatha"		

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Session 3 Big Data				CHIMNEY ROOM
09:25	Yoshiki Yamagata	Chairing Session Big Data		
09:30	Kristina Orehounig	Keynote: Energy system and building retrofitting solutions: From building to district scale		
10:00	Kevin Gurney	Keynote: The Carbon Dioxide Emissions of US Cities: Use of Systematic Big Data to Understand Urban Carbon Emissions		
10:30	Coffee break			
Session 3a Big data (Chair Yoshiki Yamagata)		MIDDLE ROOM	Session 4a Governance (Chair Ulrike Kornek)	
10:50	Giovanni Baiocchi	Footprint of cities from the seamless integration of complexity theory and classification approaches through spatial data science	10:50	Kirsten Jörgensen
11:10	Daisuke Murakami (Yoshiki Yamagata)	Big-data for Climate Risk Mitigation: Heat and Sentiment Analysis using Twitter Data	11:10	María Figueroa
11:30	Yoshiki Yamagata	IoT/Big-data for Smart Community: Real-time Demand-Supply Matching Approach	11:30	Quentin Lepetit
11:50	Anastasia Svirejeva-Hopkins	City Thermodynamics, Size, Density and Sub-Systems: Exploring Urban Sustainability at different scales.	11:50	Kathryn Janda
12:10	Mihály Dombi	Material requirement, carbon footprint, and economic value of services' capital stocks in Hungary	12:10	Diana Reckien
12:40	Lunch			WINTER GARDEN

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Session 4 Governance			CHIMNEY ROOM
14:00	Radhika Khosla	Chairing Session Governance	
14:05	Diana Ürge-Vorsatz	Keynote: Opportunities for climate change mitigation in the building sector	
14:35	Rachelle Altermann	Keynote: What works, what not? Insights from comparing urban planning across nations	
15:05	Coffee break		
Session 3b (Chair Begüm Demir)		MIDDLE ROOM	Session 4b Governance (Chair Diana Reckien) CHIMNEY ROOM
15:30	João Pedro Gouveia	Harvesting big data from residential buildings energy performance certificates: an application for mapping energy needs at local scale	15:30 Fee Stehle Polycentric Urban Climate Governance
15:50	Rolf Moeckel	Microsimulation of Land Use and Transportation: Tracing Individuals throughout the Simulation for Improved Impact Assessment of Climate Change Policies	15:50 Fred Steward Sociotechnical network mapping for urban transitions
16:10	Esteban Munoz	The Spatial Microsimulation Urban Metabolism (SMUM) Model	16:10 Ben Riemersma Governing safety hazards in future gas distribution systems: How to organize governance in urban hydrogen and bio-methane systems
16:30	Zhou Xiaoyu	Quantifying spatial distribution of Fossil Fuel CO ₂ Emissions in a city integrating GIS and big data	16:30 Elena Marie Ensenado Cities learning from each other on financing urban solutions for climate change mitigation
16:50	Kanae Matsui (Yoshiki Yamagata)	Sensing nearly real-time data of indoor comfort by IoT technology for an action plan to prevent heatstroke: case study in Tokyo, Japan	16:50 Anthony Akanji Contemporary Environmental Challenges and Sustainable Urban Development; Harnessing the Local Government Structure for Public Engagement and Accountability. A Case Study of Nigeria.
17:30	Coffee break		
17:45	Panel: Shuaib Lwasa, Radhika Khosla, Elke Weber, Vincent Viguie, Moderator: Felix Creutzig	Is there a key class of "highly valuable" urban climate change mitigation actions that simultaneously improve well-being/SDGs/adaptation?	
19:00	End of conference		