Consortium for Scenario Planning

VIRTUAL CONFERENCE
February 3–4, 2022

#scenarios2022

LINCOLN INSTITUTE
OF LAND POLICY

CONSORTIUM FOR
SCENARIO PLANNING

THURSDAY, FEBRUARY 3   Engagez Online Platform

11:00 a.m. – 11:05 a.m.   **Welcome**

Speaker: Heather Sauceda Hannon, Associate Director of Planning Practice and Scenario Planning,
Lincoln Institute of Land Policy

11:05 a.m. – 12:00 p.m.   **Plenary: Emerging Trends and Signals – APA's 2022 Watchlist**
The American Planning Association and the Lincoln Institute have together conducted extensive
trend research on emerging and potential future trends relevant to planning the future of cities
and communities. While many of these signals connect directly to planning (e.g., increases in
natural disasters, evolving community funding programs, or autonomous transportation), many
others seem to be unrelated–but planners risk extreme disruption if they don't address these
issues (e.g., pandemic cave syndrome, 3D printing, metaverse). This session will spotlight the top
trends and signals planners should prioritize on their watchlists.

Speakers: Petra Hurtado, Research Director, American Planning Association
Sagar Shah, Planning and Community Health Manager, American Planning Association
Alexsandra Gomez, Research Associate, American Planning Association

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12:00 p.m. – 12:10 p.m.   **Break**

BREAKOUT SESSIONS 1

12:10 p.m. – 1:00 p.m.   **Session 1a: Scenario Planning 101**
Learn about what scenario planning is, how it can strengthen your planning processes, and how
you and your organization can get started. Participants will engage in a hands-on exercise to begin
brainstorming future forces and creating a roadmap for implementing scenario planning techniques.

Speakers: Heather Sauceda Hannon, Associate Director of Planning Practice and Scenario Planning,
Lincoln Institute of Land Policy
Amy Cotter, Director of Climate Strategies, Lincoln Institute of Land Policy

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12:10 p.m. – 1:00 p.m.   **Session 1b: Participatory Planning Strategies for Climate Resilience Scenarios**
In 2008, California's landmark S.B. 375 legislation made regional scenario planning an integral
part of meeting the state's greenhouse gas reduction goals through the Sustainable Community
Strategy (SCS). Though scenario planning for climate resilience benefits from a range of diverse
perspectives, it is inherently complex–and, as a result, planners often neglect community-based
partners and residents in their conversations on key priorities and actions. This session will focus
on outreach strategies that incorporate broader community and stakeholder involvement into
climate-focused scenario planning processes and on how to maintain those relationships once
built. Institutionalizing such community-based partnerships in planning processes will result in
community priorities being more integrated into regional scenario planning for climate resilience.

Speakers: Ayano Healy, Senior Associate, Cascadia Partners
Jasmine Leek, Executive Director, Third City Coalition
Christine Corrales, Senior Planner, San Joaquin Council of Governments

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1:00 p.m. – 1:15 p.m.   **Break**

1:15 p.m. – 2:15 p.m.	SocialHour Online Platform

1:15 p.m. – 2:15 p.m.   SocialHour Online Platform
NETWORKING LUNCH
Using the SocialHour platform, attendees will share updates about their work. Come prepared to share and exchange ideas with other attendees!

2:15 p.m. – 3:00 p.m.   **NEW RESEARCH**
Scenario Planning for Climate Resilience
Hear from the leads of several ongoing Consortium for Scenario Planning projects about how scenarios can be used to increase community resilience to climate impacts, with a particular focus on flooding. These projects cover a wide range of perspectives on a variety of topics, including regional resiliency efforts, climate migration and receiving communities, managed retreat and buyout programs, and urban blue-green infrastructure incentives. The different perspectives present an opportunity to compare current initiatives, policy instruments, and best practices at different scales. *(For additional information, see the project descriptions under the Resources section in Engagez.)*

Panelists: Ryan Thomas, Ph.D. Candidate, Department of City and Regional Planning, Cornell University, "Coordinating local climate scenarios in a large region? The case of New York State's Coastal Lakeshore Economy and Resiliency Initiative"

Nicholas Rajkovich, Associate Professor, School of Architecture and Planning, State University of New York at Buffalo, "Scenario planning for climate resilience: A how-to guide for communities in the lower Great Lakes region"

Kelly Main, Executive Director, Buy-In Community Planning, "What do we do with the land that is left behind? Exploratory scenario planning for end-use of floodplain buyout parcels"

Renan Almeida, Assistant Professor, Department of Economics, Federal University of São João del-Rei, "Using green and blue infrastructure for urban flood mitigation: simulating scenarios for climate change, GBI technologies and land policy

Moderator: Patrick Welch, Policy Analyst, Lincoln Institute of Land Policy

3:00 p.m. – 3:10 p.m.   **Break**

BREAKOUT SESSIONS 2

3:10 p.m. – 4:00 p.m.   **Session 2a: Scenario Planning in Maryland and California**
Across the country, communities of varying sizes and locales use scenarios to inform their planning work. In Montgomery County, Maryland, planning staff used a regional travel demand model to develop and evaluate alternative futures to understand how external factors could impact the county's transportation outcomes. Transportation planning representatives will share how the resulting policy recommendations could help the county achieve its transportation vision in these alternative futures scenarios. In California, the Plan Bay Area 2050 exploratory scenario exercise showcases the potential of airing economic real option theory with exploratory scenario planning to provide innovative concepts and tools for the qualitative identification and quantitative valuation of adaptive strategies in changing conditions.

Speakers: Jesse Cohn McGowan, Transportation Coordinator, Montgomery County Planning Department
David Anspacher, Transportation Supervisor, Montgomery County Planning Department
Thomas Machiels, Urban Planning Ph.D. Candidate, University of Antwerp

3:10 p.m. – 4:00 p.m.	**Session 2b: Weaving Anticipatory Planning into Real Estate Development Projects**
	Scenario and other types of planning allow professionals across multiple sectors to build "what ifs" and "if this, then that" logic into plans, policies and projects. This session looks at practical approaches using technology foresight in real estate development projects with a focus on trends and emerging technologies affecting driving and parking demand. The session concludes with insight on how the impacts affect project design.
Speaker:	Lisa Nisenson, Vice President for New Mobility and Connected Communities, WGI
4:00 p.m. – 4:15 p.m.	**Conclusion: Final Day Overview**
Speaker:	Heather Sauceda Hannon, Associate Director of Planning Practice and Scenario Planning, Lincoln Institute of Land Policy

All event times are Eastern Standard Time (EST).

FRIDAY, FEBRUARY 4	Engagez Online Platform
11:00 p.m. – 11:10 a.m.	**Welcome**
	BREAKOUT SESSIONS 3
11:10 a.m. – 12:00 p.m.	**Session 3a: Scenario Planning Education Roundtable**
	Leveraging the power of scenario planning in the face of our cities' challenges requires training a new generation of practitioners. This roundtable session will dive into how graduate education and professional development opportunities can train students to use scenario planning methods. Instructors who have offered courses involving scenario planning for students and staff will kick off an interactive session wherein participants can share tips, best practices, and ways to expand educational and professional opportunities around scenario planning.
Speakers:	Robert Goodspeed, Associate Professor of Urban and Regional Planning, University of Michigan at Ann Arbor
	Saket Sarraf, Faculties of Planning, Design, and Technology, CEPT University India
11:10 a.m. – 12:00 p.m.	**Session 3b: Lessons from Greenhouse Gas Scenario Planning Tools**
	Hear from two metropolitan-area councils about their experiences planning for greenhouse gas reductions. In the Twin Cities, the Metropolitan Council's new Greenhouse Gas Scenario Planning Tool aims to enable strategic and efficient greenhouse gas reductions in the region's cities with an interactive, online platform from which local governments can choose a portfolio of strategies, understand their impacts over the next decades, and learn how to implement them. From Boston, Massachusetts, the Metropolitan Area Planning Council will share their experiences with another Community Greenhouse Gas Inventory Tool and offer step-by-step guide to inform your own practice.
Speakers:	Mauricio Leon Mendez, Senior Researcher, Metropolitan Council
	Timothy Reardon, Director of Data Services, Metropolitan Area Planning Council

12:00 p.m. – 12:10 p.m.	**Break**

BREAKOUT SESSIONS 4

12:10 p.m. – 1:00 p.m.	**Session 4a: Scenario Planning for Natural and Working Land Conservation** Natural and Working Lands (NWLs)–like open space, parks, and farmland–are linked directly to the health of our climate and communities. How can protecting them allow cities and regions to meet their climate goals while still achieving their goals for transportation, housing, and economic development? Using examples from work with the City of San Jose and Merced County, California, this session will ask what scenarios can do to test the impact of urban growth patterns and measure the varying impacts of NWL stewardship and conservation, as well as how findings may direct future climate action.
Speakers:	Sachi Arakawa, Senior Associate and Lead Data Analyst, Cascadia Partners Jake Smith, Conservation and GIS Program Manager, Santa Clara Open Space Authority Carrie Schloss, Senior Scientist, The Nature Conservancy
12:10 p.m. – 1:00 p.m.	**Session 4b: Incorporating Scenario Techniques into Long-Range Regional Planning for the Twin Cities** Despite the inherent uncertainty of peering into the future, the Twin Cities Metropolitan Council is required to guide development toward 2050 in a seven-county region–and this session will describe how planners apply scenario techniques and use the Consortium for Scenario Planning's flexible framework for thoughtful city and regional planning. From parsing scenario components to cultivating the right mindset and developing accountability mechanisms, this session will discuss how best to engage stakeholders, bridge cultural differences, and leverage catastrophe for breakthrough thinking.
Speakers:	Dan Marckel, Planning Analyst, Metropolitan Council Baris Gumes-Dawes, Senior Researcher, Metropolitan Council
1:00 p.m. – 1:15 p.m.	**Break**
1:15 p.m. – 2:15 p.m.	SocialHour Online Platform **NETWORKING LUNCH** Using the networking platform Social Hour, each virtual table at this "lunch" will have a planning-related topic to discuss. Attendees are encouraged to move between tables of interest.

2:15 p.m.– 3:00 p.m.	**NEW RESEARCH** **Innovative Uses of Scenario Planning for Capacity Building and Engagement** The impacts of climate change are complex and uncertain. Planning for future climate impacts presents a daunting challenge for communities of all sizes; however, scenario planning offers approachable tools and strategies for practitioners and community members to understand potential impacts and assess possible actions. This session offers an opportunity to hear from lead researchers of several ongoing Consortium for Scenario Planning projects that explore how scenario planning tools can increase capacity in small and rural towns, more effectively communicate climate risks, and engage diverse audiences to explore the dynamic relationship of water and land policies. *(For additional information, see the project descriptions under the Resources section in Engagez.)*
Panelists:	Andy Rumbach, Associate Professor, Department of Landscape Architecture and Urban Planning, Texas A&M University, "Exploratory scenario planning: Towards small town and rural resilience?" Donovan Finn, Assistant Professor, School of Marine and Atmospheric Sciences, Stony Brook University, "Scenario planning for extreme futures: Linking storytelling and climate science" Ray Quay, Director of Stakeholder Relations, Decision Center for a Desert City, Arizona State University, "WaterSim Climate Resilience: Using exploratory scenarios to strategically assess the climate resilience of water and land use integration"
Moderator:	Patrick Welch, Policy Analyst, Lincoln Institute of Land Policy
3:00 p.m.– 3:10 p.m.	**Break**
3:10 p.m.– 4:00 p.m.	**Putting New Research into Practice** In 2020, the Lincoln Institute commissioned six studies that examined different aspects of integrating equity into scenario planning and of scenario planning for low- or no-growth regions. The authors of these studies presented their interim findings at the 2021 Consortium for Scenario Planning Conference–and this presentation will explore the final products, including key takeaways from the effort as a whole and where you can find relevant scenario planning resources.
Speaker:	Jessie Grogan, Associate Director of Reduced Poverty and Spatial Inequality, Lincoln Institute of Land Policy
4:00 p.m.– 4:15 p.m.	**Conclusion**
Speaker:	Heather Sauceda Hannon, Associate Director of Planning Practice and Scenario Planning, Lincoln Institute of Land Policy

SPEAKER BIOGRAPHIES

Renan Almeida, Assistant Professor, Department of Economics, Federal University of São João del-Rei

Renan P. Almeida is an assistant professor of economics and urban and regional planning at the Federal University of São João del-Rei (UFSJ) in Brazil. His research focuses on urban land markets and water regulation, and he published in journals including Environment and Planning, Papers in Regional Science, and Utilities Policy. In recent years, his work has been funded by institutions such as UN-Habitat, the World Bank, the Lincoln Institute of Land Policy, and the Minas Gerais' state government. He previously served as tariff manager at the Water and Sanitation Regulatory Agency of Minas Gerais. He has a Ph.D. in economics from the Center for Development and Regional Planning (Cedeplar) at the Universidade Federal de Minas Gerais (UFMG).

David Anspacher, Transportation Supervisor, Montgomery County Planning Department

David Anspacher is a transportation supervisor at the Montgomery County Planning Department and oversees the department's Multimodal Transportation Planning team. He led the Transportation Working Group for Thrive Montgomery 2050, the update to Montgomery County's General Plan, and was the Project Manager for the county's Bicycle Master Plan. He has a B.A. in economics from Wesleyan University and a M.C.R.P. from the University of North Carolina at Chapel Hill.

Sachi Arakawa, Senior Associate and Lead Data Analyst, Cascadia Partners

Sachi Arakawa is an associate at Cascadia Partners. She is an urban planner, GIS analyst, and cartographer who worked across the public, private, and nonprofit sectors at the intersection of data and people. She is a strong believer in the combined approach of utilizing community knowledge and wisdom alongside quantitative analysis for a more nuanced understanding of complex issues. Through interactive web mapping, data visualizations, and tactile print maps, she specializes in creating relatable and easy-to-understand products for engaging diverse audiences in spatial thinking. She is also a founding organizer of the Mapping Action Collective, a data visualization, mapping, and data analysis group that uses maps and data to support grassroots organizations and individuals working towards social justice and community resilience. She obtained both a M.U.R.P. and B.A. in geography and GIS from Portland State University.

Jesse Cohn McGowan, Transportation Coordinator, Montgomery County Planning Department

Jesse Cohn McGowan is a transportation coordinator at the Montgomery County Planning Department, where she leads the department's Multimodal Transportation Planning team on the Vision Zero agenda and other transit planning. She brings an equity lens to all her work, considering the needs of underserved populations through visioning, community engagement, and technical analysis. She has a B.A. in urban studies and visual arts from Brown University and a M.C.R.P. from the University of North Carolina at Chapel Hill.

Christine Corrales, Senior Planner, San Joaquin Council of Governments

Christine Corrales is a Central Valley native from Stockton, California, interested in social equity and public health issues as they intersect with urban planning. Prior to her planning career, she worked for various nonprofit and community-based organizations that engaged directly with communities of color in large metropolitan areas like Los Angeles, California; Oakland, California; and Portland, Oregon. She is now a Senior Planner at the San Joaquin Council of Governments, where she works on regional housing issues, regional planning studies, and community partnerships.

Amy Cotter, Director of Climate Strategies, Lincoln Institute of Land Policy

Amy Cotter is the director of climate strategies at the Lincoln Institute of Land Policy, where she relates land policy in metropolitan and urbanized areas to the critical global challenges of climate change, sustainability, and spatial equity. Before joining the Lincoln Institute, she spent 13 years with Boston's Metropolitan Area Planning Council, where she directed the development and strategic implementation of MetroFuture, the plan for a more sustainable and equitable metropolitan region. She has also held positions at the Tellus Institute and ICF Consulting. She obtained master's degrees from the University of Michigan in environmental policy and in urban and regional planning and received her B.A. from Tufts University.

Donovan Finn, Assistant Professor, School of Marine and Atmospheric Sciences, Stony Brook University

Donovan Finn is an assistant professor of environmental design, policy, and planning in the Sustainability Studies Program and the School of Marine and Atmospheric Sciences at Stony Brook University in New York. His research examines how communities address resilience, sustainability, and disaster recovery challenges and how these goals intersect with social equity and participatory decision making, including the use of planning support systems, scenario planning, and other tools. He has an extensive background in scenario planning, including five years with the Land Use Evaluation and Impact Assessment Model project at the University of Illinois at Urbana-Champaign. His research has also been funded by the National Science Foundation, the Lincoln Institute of Land Policy, and the Natural Hazards Center at the University of Colorado Boulder.

Alexsandra Gomez, Research Associate, American Planning Association

Alexsandra Gomez is a research associate at the American Planning Association, where she supports sponsored and strategic research projects, contributes to Research KnowledgeBase collections, and writes for APA publications. She has a background in cultural geography and anthropology and applies these disciplines to planning research and practice. Her research interests include urban political ecology, geographies of power, and equitable community-led development. She has a B.A. in geography from McGill University.

Robert Goodspeed, Associate Professor of Urban and Regional Planning, University of Michigan at Ann Arbor

Robert Goodspeed is an associate professor of urban and regional planning at the University of Michigan's Taubman College of Architecture and Urban Planning. He teaches and conducts research in the areas of collaborative planning, urban informatics, and scenario planning theory and methods, and he authored the book *Scenario Planning for Cities and Regions: Managing and Envisioning Uncertain Futures*. He is a member of the American Institute of Certified Planners and serves as a board member of the Lincoln Institute of Land Policy's Consortium for Scenario Planning.

Jessie Grogan, Associate Director of Reduced Poverty & Spatial Inequality, Lincoln Institute of Land Policy

Jessie Grogan is the associate director for the Reduced Poverty and Spatial Inequality goal area at the Lincoln Institute of Land Policy, where she previously managed the Consortium for Scenario Planning and now manages the Legacy Cities Initiative, which equips smaller American legacy city leaders with resources to equitably revitalize. Previously, she worked as a policy analyst at Boston's Metropolitan Area Planning Council and coauthored "The State of Equity in Metro Boston Indicators Report and Policy Agenda"; additionally, she helped draft the MetroFuture regional plan and led Metro Boston's Sustainable Communities Consortium. She has a B.A. in political science from Simon's Rock College and a M.P.P. from Brandeis University's Heller School.

Baris Gumus-Dawes, Senior Researcher, Metropolitan Council

Baris Gumus-Dawes is a senior researcher at the Metropolitan Council, where she manages special projects for the Community Development Division. She currently leads the Council's scenario planning efforts in preparation for its 2050 regional planning cycle. She has worked as a researcher and a policy analyst at non-profit organizations and research institutions before joining the Council. She holds a M.A. in economics from the University of Cambridge and a Ph.D. in sociology from Yale University.

Ayano Healy, Senior Associate, Cascadia Partners

Ayano Healy is a public health urban planner who brings an interdisciplinary approach when working on projects of all scales and settings. Her experience with upstream public health programs led her to urban planning with the desire to continue addressing the root cause of socioeconomic health disparities, and her work in public, private, and nonprofit sectors is driven by the pursuit of creating more effective and equitable systems that support healthier lives and communities. She specializes in developing and implementing culturally responsive public engagement, facilitation, strategic communications, research design, and data analysis. She is a conscientious storyteller who enjoys translating technical jargon and research into compelling narratives and engaging activities.

Petra Hurtado, Research Director, American Planning Association

Petra Hurtado is the research director at the American Planning Association. Her areas of expertise and research include urban sustainability, smart cities, emerging technologies, and environmental psychology. Previously, she worked as an advisor, planner, researcher, and educator in global urban sustainability. She has a Ph.D. in urban planning from the Vienna University of Technology, where she also teaches; additionally, she has guest-lectured at Loyola University Chicago, the University of Maryland, the Harvard Graduate School of Design, and the Universidad Tecnologica de Bolivar. She has authored and co-authored multiple books, research papers, publicly funded reports, and articles and has presented as a subject matter expert at numerous conferences around the globe.

Jasmine Leek, Executive Director, Third City Coalition

Jasmine Leek is an interdisciplinary community designer serving as founder and managing director of Third City Coalition. With ten years of professional experience in various leadership roles spanning multiple sectors, she brings a bold, entrepreneurial spirit to investments in community and economic development initiatives in her hometown of Stockton, California. Her previous roles in the public, private, and philanthropic sectors prepared her for current collaborations with public agencies, nonprofits, and private industry to build hundreds of strategic relationships and usher more than $65 million into Stockton for inclusive community planning and climate equity projects.

Mauricio Leon, Senior Researcher, Metropolitan Council

Mauricio Leon is a researcher for the Metropolitan Council. He is currently leading an effort to develop greenhouse gas accounting and scenario planning tools for local governments for communities in Minnesota's Twin Cities region.

Thomas Machiels, Urban Planning PhD Candidate, University of Antwerp

Thomas Machiels is a Ph.D. candidate at the University of Antwerp in its Research Group for Urban Development. He holds master's degrees in history and in urban design and planning. His Ph.D. research uses real option theory to develop an adaptive planning approach to cope with uncertainties in complex planning projects. He currently works as a visiting researcher at the University of Michigan's Taubman School or Architecture and Urban Planning, where he collaborates with Robert Goodspeed to research the integrated use of scenario planning and real option theory for adaptive planning.

Kelly Leilani Main, Executive Director, Buy-In Community Planning

Kelly Leilani Main is an urban planner and designer whose work bridges the conceptual gaps among spatial planning, design, and policy. Kelly is the co-founder and executive director of Buy-In Community Planning, Inc., and a research associate at the Massachusetts Institute of Technology (MIT) Leventhal Center for Advanced Urbanism. Her work and research have been presented at the Intergovernmental Panel on Climate Change Conference on Cities (2018), the International Conference on Building Resilience (2018), and the At What Point Managed Retreat? Conference at Columbia University (2019), as well as published in multiple journals. She has an M.C.P. from the Massachusetts Institute of Technology and a B.A. in interdisciplinary field studies from the University of California, Berkeley.

Lisa Nisenson, Vice President for New Mobility and Connected Communities, WGI

Lisa Nisenson is the Vice President of New Mobility and Connected Communities for WGI, where she leads development of next generation planning, smart city technology strategies, emerging mobility, and integrated placemaking. Working at the forefront of helping cities adopt innovation, she is a member of the American Planning Association's Smart City Task Force and is also a Consortium for Scenario Planning board member. She founded the civic startup GreaterPlaces in 2014 and has previously worked with Alta Planning + Design, Sarasota County Florida, and the United States Environmental Protection Agency's Smart Growth office. She is a graduate of Meredith College and Harvard University.

Ray Quay, Director of Stakeholder Relations, Decision Center for a Desert City at Arizona State University

Ray Quay is the director of stakeholder relations at the Decision Center for a Desert City, part of the Global Institute of Sustainability and Innovation at Arizona State University. He researches urban planning, water resources, climate change adaptation, urban heat islands, regional growth policy, and scenario analysis. Previously, he was the assistant director of water services and planning for Phoenix, Arizona, and assistant director of planning for Arlington and Galveston, Texas. He is an American Institute of Certified Planners fellow and has authored numerous publications on urban planning and water resources. He holds a B.S. from Baylor University, a M.S.C.R.P. from University of Texas at Austin, and a Ph.D. from Arizona State University.

Nicholas Rajkovich, Associate Professor, School of Architecture and Planning, University at Buffalo, State University of New York

Nicholas B. Rajkovich is an associate professor at the University at Buffalo who investigates the intersection of energy efficiency, renewable energy, and adaptation to climate change. By studying how the built environment adapts to extreme weather and climate change, he works to solve problems that may plague cities of the future. He holds a M. Arch from the University of Oregon and a B. Arch from Cornell University.

Timothy Reardon, Director of Data Services, Metropolitan Area Planning Council

Timothy Reardon is the director of data services at the Metropolitan Area Planning Council (MAPC), Metro Boston's regional public agency. He has over twenty years of experience, with a focus on using data and technology to support informed decision making. While at MAPC, he has been responsible for socioeconomic and land use projections, local planning projects, policy-oriented technical analysis, development of new data sets, and development of novel public engagement techniques. He also had a leading role in the development of MetroFuture, MAPC's long-range regional growth plan, which was adopted in 2008. He earned an M.C.P. from the Massachusetts Institute of Technology.

Andrew Rumbach, Associate Professor, Department of Landscape Architecture and Urban Planning, Texas A&M University

Andrew Rumbach is an associate professor of landscape architecture and urban planning at Texas A&M University and the director of education for the Hazard Reduction and Recovery Center. His research centers on community risk and resilience to natural hazards and climate change, how local governments and residents prepare for and recover from extreme weather events, and the political and economic contexts for climate change adaptation. He is particularly interested in questions of how small and marginalized communities reduce environmental risk in the face of severe resource constraints. He received his Ph.D. and M.U.P. from Cornell University and his B.A. in political science from Reed College.

Saket Sarraf, Founder and Principal Planner, ps Collective

Dr. Saket Sarraf is the founder, and principal planner at ps Collective, a collaborative platform for advocacy, research, policy analysis, and consultancy. Passionate about issues related to sustainability with a focus on the built and the social environment, he has over 20 years of experience working across India, the United Arab Emirates, and the United States. His research interests span issues of equity, community engagement, policy analysis, modeling, and decision support systems. He is also affiliated with the Faculty of Planning at the CEPT University in Ahmedabad, India. He has a Ph.D. in regional planning and a M.U.P. from the University of Illinois at Urbana-Champaign.

Heather Sauceda Hannon, Associate Director of Planning Practice and Scenario Planning, Lincoln Institute of Land Policy

Heather Sauceda Hannon runs the Consortium for Scenario Planning and advances planning practices through its strategic initiatives and educational efforts. Previously, she was a transportation planner consulting for the U.S. Department of Transportation. She has also worked in regional and state planning at the Massachusetts Department of Transportation and in campus planning at Harvard University and the University of Massachusetts, Boston. She earned her A.B. in architecture from Princeton University and her M.U.P. from Harvard University's Graduate School of Design.

Carrie Schloss, Senior Scientist, The Nature Conservancy

Carrie is a senior scientist in The Nature Conservancy's California Program, focusing on multi-benefit conservation planning and climate change adaptation. She uses data analytics, creates decision support tools to encourage the integration of conservation values across sectors, and explores how natural resource and social science information can be combined to reveal new opportunities and advance the conservation of natural lands in an urbanizing landscape. She also conducts statewide assessments that identify how the landscape can enhance resilience and adaptation to climate change in support of climate-smart conservation decisions. Previously, she contracted with the United States Geological Survey to apply spatial conservation prioritization tools to offset siting for mitigation. She holds an M.S. in ecology from the University of Washington, where she analyzed the ability of mammals to keep pace with climate change and explored methods for incorporating climate change adaptation and resilience into conservation planning.

Sagar Shah, Research Manager, Planning and Community Health, American Planning Association

Sagar Shah, AICP, is the Planning and Community Health Manager at the American Planning Association in Washington, D.C. In this role, he creates tools, trainings, and educational materials to help local planning practitioners integrate health and equity into their planning practice. He is also a core team member of APA Foresight, where he leads multiple Communities of Experts to prepare planners for disruptions before it happens. In his academic career, he has worked on multiple applied research, community-based research, and basic research projects; his research interests include investigating the role planners play in creating healthy communities with an emphasis on health equity. He holds a Ph.D. in regional development planning from the University of Cincinnati and a M.U.P. from the University of Southern California.

Jake Smith, Conservation and GIS Program Manager, Santa Clara Open Space Authority

Jake Smith is the conservation and GIS program manager for the Santa Clara Valley Open Space Authority. His work focuses on identifying and promoting nature-based solutions that build climate resilience by developing projects that help conserve, restore, and manage open space areas and integrate nature back into urban areas. Jake holds an M.S. in coastal watershed science and policy from California State University, Monterey Bay, and a B.S. in environmental management and protection, with an emphasis in hydrology and watershed management, from California Polytechnic State University, San Luis Obispo.

Ryan Thomas, Ph.D. Candidate, City and Regional Planning, Cornell University

Ryan Thomas is a doctoral candidate in city and regional planning at Cornell University. He previously worked as a local planner in his hometown of Cincinnati, Ohio, and as a research scientist at the Yale School of the Environment. His current research concerns how planning methods and techniques evolve to incorporate new forms of information in response to climate change; past projects include an analysis of the technical data requirements for producing sea-level rise scenarios for a multi-jurisdiction scenario planning effort in the South Shore region of Massachusetts. His dissertation examines the relationship between risk perceptions and adaptation actions in Dar es Salaam, Tanzania. He joined the Consortium for Scenario Planning in 2019.

Patrick Welch, Policy Analyst, Lincoln Institute of Land Policy

Patrick Welch is a policy analyst at the Lincoln Institute of Land Policy focusing on land-based climate finance, equitable climate adaptation and resilience, and scenario planning. He has nearly a decade of experience in planning, international development, and environmental policy at various scales. Previously, he consulted on sustainable economic development strategies in Latin America, including an economic decarbonization strategy for Costa Rica, and developed programs and policy at the U.S. Department of Transportation's Volpe Center. He also worked as an environmental educator in Nicaragua with the Peace Corps. He obtained his B.A. in Urban Environmental Studies from Birmingham-Southern College, and his M.C.R.P. from the University of North Carolina-Chapel Hill.

About the Lincoln Institute

The Lincoln Institute of Land Policy seeks to improve quality of life through the effective use, taxation, and stewardship of land. A nonprofit private operating foundation whose origins date to 1946, the Lincoln Institute researches and recommends creative approaches to land as a solution to economic, social, and environmental challenges. Through education, training, publications, and events, we integrate theory and practice to inform public policy decisions worldwide.

About the Consortium for Scenario Planning

The Consortium for Scenario Planning helps to foster growth in the use of scenario planning to better guide action at all scales through research, peer-to-peer learning, networking, training, and technical assistance. Established in 2017, the Consortium works to increase the practice, accessibility, and resources of scenario planning as a field for both newcomers and longtime practitioners—and to expand scenario planning practices to rural and less urban areas, municipalities, and other applicable contexts.

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