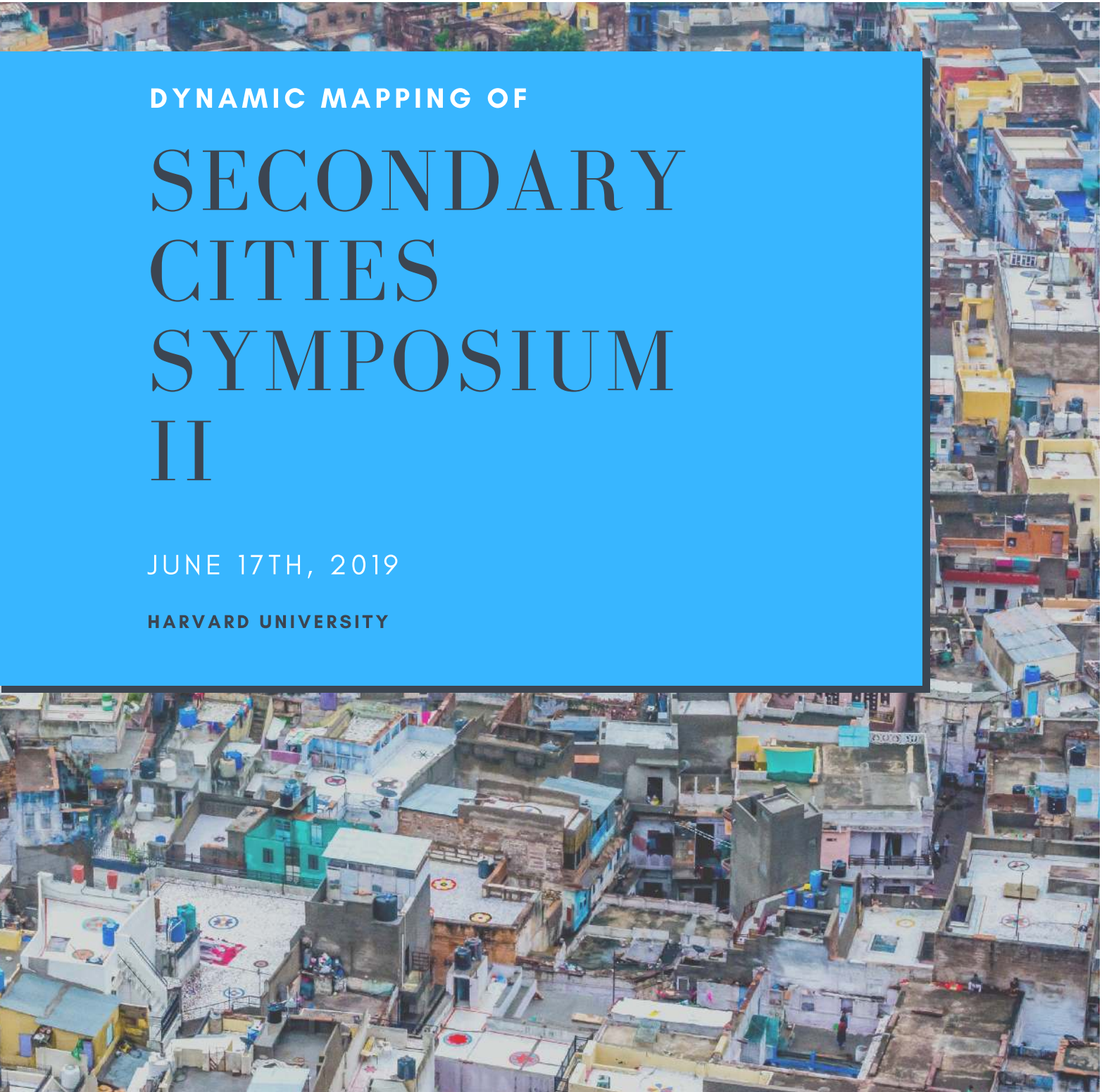


DYNAMIC MAPPING OF

SECONDARY CITIES SYMPOSIUM II

JUNE 17TH, 2019

HARVARD UNIVERSITY



 **Secondary
CITIES**
OFFICE OF THE GEOGRAPHER
SecondaryCities.state.gov

 **Colorado State University**



**Center for
Geographic Analysis**

Harvard University



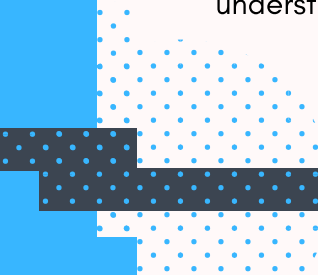
SECONDARY CITIES SYMPOSIUM

OVERVIEW

The U.S. Department of State's Secondary Cities (2C) Initiative is a global collaboration of universities and organizations supported by the Office of the Geographer and Global Issues and the Bureau of Oceans and International Environmental and Scientific Affairs, and facilitated by the American Association of Geographers and Colorado State University. The 2C Initiative promotes field-based mapping projects focused on creating and sharing human geography data for rapidly growing cities where such information is limited. Each project builds partnerships with local governments, universities, non-governmental organizations, and/or industry with the goal of improving access to geospatial training, tools, and technology. New and freely accessible 2C geospatial data fill information gaps and play a critical role in planning, decision-making, and stakeholder participation for resiliency, human security, emergency preparedness, and urban sustainability. We are proud to partner with Harvard University's Center for Geographic Analysis to make this symposium possible.

OBJECTIVES

Thought leaders and experts in participatory mapping, open data, and urban resilience will discuss best practices for project sustainability across the key thematic areas identified above. Drawing on the experience of our attendees, the lessons learned from 2C and similar projects, and new opportunities for partner engagement, the symposium will result in recommendations and strategies for how best to continue and sustain 2C projects and networks. These will also hopefully provide a framework for designing new urban data generation initiatives that will drive innovation and create enduring partnerships for better mapping and understanding the human geography of cities.



SYMPOSIUM DESIGN

To accomplish our objectives we will hear from experts in urban mapping who will offer perspectives and experiences on best practices for future sustainability – both of projects that generate geospatial data and programs that support them. We will explore the current state of urban mapping initiatives, upcoming project developments, and the priorities of large-scale organizations to fund these efforts. We will demonstrate how urban mapping has been successful in underpinning planning efforts. We will look for opportunities to foster networks between urban mapping projects and urban map users to leverage innovative partnerships that will continue to generate and share geospatial data useful for decision-making.






URBAN CHANGE: WHY SECONDARY CITIES?

Secondary cities in low and middle-income countries are regional hubs for commerce, services, or governance that often lack adequate data or planning mechanisms for future development and growth. Creating data for informed decision-making in fast growing, resource-scarce cities is vital for meeting future needs under the backdrop of increasing environmental stress. However, it is costly to provide the resources needed to create, store, and maintain these data, as well as provide the training to analyze results and a platform for sharing the knowledge created.

Providing the means for cities – their administrators and common citizens alike – to understand the value of demographics, distribution of resources, environmental hazards, and local needs can remove barriers to well-considered urban development that considers the long-term health of a growing city. Various urban projects around the world have helped provide the resources needed to create baseline geospatial data for sustainable urban development when cities lack the resources to accomplish this on their own. The challenge, therefore, is to build upon these baselines by sustaining such projects and activities into the future so that urban centers are better prepared to meet the needs of their citizenry.

Since 2015, the Secondary Cities Initiative has promoted the local generation of geospatial data in sixteen cities around the world. Its partnerships create, document, manage, map, and share information required to enable data-based and informed decision making.

For more information, visit our website: <https://www.secondarycities.state.gov/>



Monday, June 17, 8:30am–6:45pm



REGISTRATION AND REFRESHMENTS

8:30 AM, Cgis South Concourse



WELCOME AND INTRODUCTIONS

*Dr. Lee Schwartz, The Geographer of the United States, and
Laura Cline, Director of the Secondary Cities Initiative, U.S.
Department of State*

9:00 AM, S020 Belfer Case Study



OVERVIEW AND ORIENTATION

*Dr. Amanda Shores, Secondary Cities Program Manager; Colorado
State University*

9:30 AM, S020 Belfer Case Study



KEYNOTE, LAY OF THE LAND: LESSONS LEARNED FROM GEOSPATIAL APPLICATIONS IN THE HUMANITARIAN ENTERPRISE

Dr. Gregg Greenough, Harvard Humanitarian Initiative

9:45 AM, S020 Belfer Case Study

Monday, June 17, 8:30am–6:45pm



COFFEE BREAK

10:15 AM, S030 Lee Gathering Room



PANEL I: DATA BUILDERS: GENERATING NEW PARTICIPATORY DATA FOR URBAN-FOCUSED INITIATIVES

Moderated by Carter Christopher, Deputy Director, U.S. State Department Office of the Geographer

Melinda Laituri, 2C Principal Investigator, U.S. State Department and Colorado State University

Chad Blevins, Co-Founder of Youth Mappers; GeoCenter, U.S. Agency for International Development

Vivien Deparday, Disaster Risk Management Specialist; World Bank

10:30 AM, S020 Belfer Case Study



APPLICATIONS AND PLATFORMS FOR URBAN-FOCUSED PARTICIPATORY MAPPING

Fostering Community Engagement with GIS Initiatives

Tiffany Holland, Geographer, ESRI

Dr. Gaston Mbonglou, 2C Project Lead, Douala, Cameroon; and President, USA Cameroon Chamber of Commerce President

11:45 AM, S020 Belfer Case Study



LUNCH

12:15 PM, S030 Lee Gathering Room

Monday, June 17, 8:30am–6:45pm



PANEL II: DATA USERS AND DISSEMINATORS: CREATING CONTINUITY FOR URBAN-FOCUSED INITIATIVES AT THE LOCAL SCALE

Moderated by Laura Cline

Vince Seaman, Senior Program Officer; the Bill & Melinda Gates Foundation

Larry Sperling, Data Revolution for Sustainable Development; U.S. State Department

Bobby Crutchfield, MASEGO

Jesus Melendez Vicente, Acting Director of the Technology for Development Team; Mercy Corps

1:00 PM, S020 Belfer Case Study



COFFEE BREAK

2:15 PM, S030 Lee Gathering Room



BREAKOUT SESSION: GOALS FOR THE NEXT GENERATION OF PARTICIPATORY MAPPING FOR URBAN INITIATIVES

2:30 PM, S030 Lee Gathering Room



BREAKOUT SESSION REPORTING

3:30 PM, S030 Lee Gathering Room



CLOSING REMARKS

Dr. Lee Schwartz and Dr. Melinda Laituri

4:30 PM, S030 Lee Gathering Room



GROUP PHOTO, FOLLOWED BY RECEPTION AND OPEN BAR

4:45 PM, S030 Lee Gathering Room

Monday, June 17, 8:30am–6:45pm

CHAD BLEVINS

Chad Blevins is a Geographer with U.S. Agency for International Development's GeoCenter. Among his many contributions to USAID's work in fighting extreme poverty, Chad co-founded YouthMappers, which seeks to map unmapped parts of the world while building a network of university student mappers across the globe. In addition to his leadership at USAID, Chad is an active volunteer in the OpenStreetMap community and coordinates projects around the world. Prior to joining the GeoCenter, Chad supported USAID's Office of Foreign Disaster Assistance where he focused on applying new methods and technology to support disaster response and risk reduction programs.

CARTER CHRISTOPHER

Dr. S. Carter Christopher is the Deputy Director of the Office of the Geographer and Global Issues at the Department of State. In that role, he helps the Geographer of the United States address priorities for geography, humanitarian and scientific analysis and reporting, data programs, and geospatial technology. Prior to joining State Department, Dr. Christopher worked for the National Geospatial-Intelligence Agency, where most recently he was Director of the Data Integration and Automation Office, which employed crowd-sourcing, data science, machine learning, and agile software development methods to streamline NGA's map and data production. He also helped lead NGA's migration of geospatial activities to the cloud, and established a geospatial data science hub at the Agency. Dr. Christopher has a PhD in Geography from George Mason University where his research emphasis was economic geography, spatial econometrics, and human migration. Dr. Christopher also holds a Master's Degree in Geography and Remote Sensing from the University of Southern Mississippi, and a Bachelor's degree from the College of William and Mary.

LAURA CLINE

Ms. Laura Cline is a Geographer with the U.S. Department of State INR's Office of the Geographer and Global Issues (GGI). She joined GGI in 2018, as an analyst in the Humanitarian Information Unit and to continue managing GGI's Secondary Cities Initiative, a field-based initiative to expand geospatial knowledge for mapping the human geography of cities around the world. She received her B.A. in International Affairs and her M.A. in Geography, both from The George Washington University, with graduate research on natural resource conflict in Africa, disaster response and mitigation, and the urban climatology.

BOBBY CRUTCHFIELD

As CEO of Masego Inc., Mr. Crutchfield is a 20 year Imagery and Geospatial Analyst working globally to serve defense and HA/DR professionals. He maintains expertise in GEOINT and Human Geography and experience in MENA, PACOM, and South America. Mr. Crutchfield is a veteran of the Iraq and Afghanistan Wars, as well as the Arab spring. He holds both an MBA and a B.S. in Intelligence Operations. Currently Mr. Crutchfield is part of the Secretariat of the International Program for Human Geography (IPHG).

Monday, June 17, 8:30am–6:45pm

VIVIEN DEPARDAY

Mr. Vivien Deparday is a Disaster Risk Management Specialist and leads GFDRR's Open Data for Resilience Initiative (OpenDRI). He has been a member of the Innovation Lab for five years, supporting World Bank teams across the globe by providing technical and strategic assistance to help governments to better collect, share, and use information, as well as develop tools and build long-term capacity to support decisions to reduce the impact of disasters. Prior to joining GFDRR, Mr. Deparday worked at the Social Planning Council of Ottawa, helping the non-profit sector to leverage geospatial technology and data for better program planning. A native of France, Mr. Deparday holds a master's degree in geomatics from the University of Waterloo, Canada, and an engineering degree from the École Centrale de Lille, France.

TOM GERTIN

Tom Gertin has been a GIS professional and web developer for the Humanitarian Information Unit at the U.S. Department of State since 2014. He supports the Secondary Cities initiative by managing the 2C GeoNode and the 2C website. He also supports the Mapgive initiative, a U.S. Department of State crowdsourced mapping initiative to support humanitarian relief and development. Tom holds a Masters in Geoinformatics and Geospatial Intelligence from George Mason University, and is currently pursuing a PhD.

GREGG GREENOUGH

Dr. Greenough's work focuses on applying epidemiologic methods to public health problems within conflict- and disaster-affected populations. After graduating from the Case Western Reserve University School of Medicine (1989), he completed a residency and fellowship in Emergency Medicine at UCLA (1997) and earned an MPH at Johns Hopkins University (1998). He holds faculty appointments at Harvard Medical School and the Harvard TH Chan School of Public Health, is a fellow at the FXB Center for Health & Human Rights, and attends in the Department of Emergency Medicine at Brigham and Women's Hospital.

WENDY GUAN

Wendy is the Executive Director who manages daily operations of the CGA. She came to Harvard in 2006 as the Director of GIS Research Services for the newly established Center. Prior to that, she managed professional services at a GIS consulting firm in Washington; headed the geospatial information technology department for a multinational forestry corporation; and supervised GIS teams in a Florida government agency. Wendy has a Ph.D. in ecology and GIS; a M.A. and M.S. in geography and natural resource management, and a B.S. in biology. She taught GIS in various universities, including the Harvard Extension School.

Monday, June 17, 8:30am–6:45pm

TIFFANY HOLLAND

Tiffany Holland is a Geographer at Esri responsible for oversight and assistance of GIS efforts for the State Department as the Esri Account Lead. She received a Bachelor Degree in Geography from Towson University, and a Masters of Science in Public Policy with specialty in International Peacekeeping Operations from George Mason University. Today Tiffany has helped develop the GIS@State Working Group for the State Department that brings together GIS personnel on a regular basis to collaborate, coordinate and share spatial data.

MELINDA LAITURI

Melinda Laituri is a professor of geography at Colorado State University in Ecosystem Science and Sustainability. Laituri received her PhD from the University of Arizona, Tucson, Arizona in geography. She is a Jefferson Science Fellow and was assigned to the Humanitarian Information Unit of the Office of the Geographer and Global Issues. She is a Visiting Scientist at Harvard University affiliated with the Center for Geographic Analysis. Laituri is the Director of the Geospatial Centroid @ CSU (gis.colostate.edu).

GASTON MBONGLOU

Gaston is a senior executive experienced in U.S. & international markets with a proven track record in business strategy, operations management and information technology. Since 2017, Gaston has provided strategic leadership and project oversight on the Douala 2C project. Douala was selected in 2016 as one of 16 cities to receive funding from the US State Department, Office of the Geographer as part of the secondary cities project (2C). The goal is to help those cities improve their resiliency and emergency preparedness. For the Douala 2C project, focus was on Flooding, Waste Management, Emergency preparedness and Management. Since 2004, Gaston has held the position of Adjunct Associate Professor at the University of Maryland University College. Gaston has a PhD and a Master Degree in Computer Science from the University of Technology of Dresden, Germany. In addition, he was teaching assistant at the same university from 1992 to 1996.

JESUS MELENDEZ VICENTE

Jesus Melendez Vicente is Acting Director of the Technology for Development team at Mercy Corps, with a regional focus on Africa and a technology focus on telecommunications, digital inclusion, data for development, and connectivity. Jesus joined Mercy Corps after 17 years in technology, business consulting and solution implementation roles across Europe, the Middle East, and Asia. Jesus has a Master of Arts in International Relations from the Fletcher School of Law and Diplomacy, is fluent in English and Spanish, and has beginner proficiency in French.

Monday, June 17, 8:30am–6:45pm

LEE SCHWARTZ

As Geographer of the United States, Lee Schwartz holds the position of the Director of the Office of The Geographer and Global Issues in the State Department's Bureau of Intelligence and Research. Schwartz is the State Department's 8th Geographer, a position that was established in 1921 and bears the statutory responsibility for providing guidance to all federal agencies on questions of international boundaries and sovereignty claims. He also oversees the Humanitarian Information Unit – a U.S. government interagency organization focused on unclassified data coordination for emergency preparedness, response, and mitigation. Dr. Schwartz earned his Ph.D. in geography from Columbia University, with a focus on political and population geography. Lee was the State Department's 2005 winner of the Warren Christopher Award for Outstanding Achievement in Global Affairs, the 2012 recipient of the Association of American Geographers' Anderson Medal of Honor in Applied Geography, and was awarded the 2014 James Cullum Medal from the American Geographical Society – in recognition of his distinguished service to the profession of geography.

VINCENT Y. SEAMAN, MS, PHD

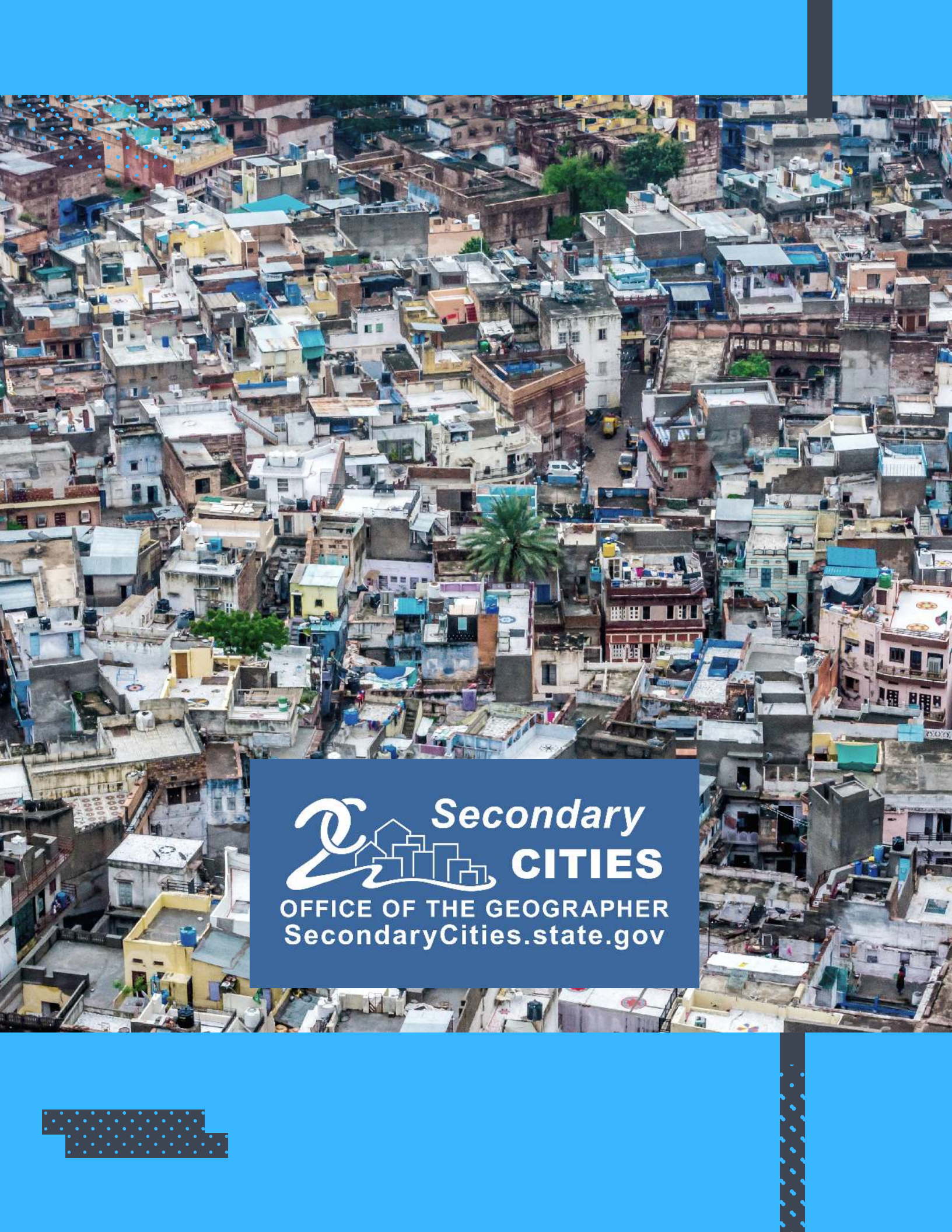
Vince Seaman currently works at the Bill & Melinda Gates Foundation in Seattle, Washington, where he is a Senior Program Officer for the Global Development Polio team. In that role, he supports polio eradication efforts in the AFRO region, and the use of geospatial and other data technologies for Gates Foundation projects worldwide. Prior to joining the Foundation, Dr. Seaman spent 7 years at the U.S. Centers for Disease Control (CDC), and was detailed to Nigeria for three years as a secondee to the World Health Organization, supporting polio and other vaccine-preventable disease programs. Vince completed his MS and PhD in Pharmacology and Toxicology at the University of California, Davis in 2006, after spending 15 years practicing as a licensed pharmacist and 8 years as a public high school science teacher in California.

AMANDA SHORES

Dr. Amanda Shores has studied a wide variety of GIS, environmental, and sustainability issues. She is the Secondary Cities Program Manager at Colorado State University helping to increase sustainable development in rapidly expanding, resource limited cities around the globe. Her Ph.D. research was conducted at Colorado State University in the Ecosystem Sustainability and Science Department focusing on the impact of hydraulic fracturing on the water cycle and the environment.

LARRY SPERLING

Mr. Sperling currently leads PEPFAR's Data Revolution for Sustainable Development Team, which is working to harness the data revolution to end the AIDS epidemic and address related development challenges. Mr. Sperling holds a J.D. with Honors from the University of Pittsburgh and a B.A. with Distinction in Foreign Affairs from the University of Virginia.



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