

Fostering Sustainable and Resilient Supply Chains with Emerging Technologies: A Workshop

Committee

Klaus Tilmes

Chair

KLAUS TILMES (Chair) is a Senior Policy Adviser and Economic Development Consultant who most recently worked with the Office of the World Bank President to develop the institution's strategy on emerging technologies and scaling adoption through financial assistance, policy advice, and partnerships. He also works closely with the African Center for Economic Transformation and the United Nations Science Technology and Innovation (STI) Forum. Previously, Mr. Tilmes served as Director of the Trade and Competitiveness Global Practice at the World Bank, overseeing operations in Sub-Saharan Africa and the Middle East and global teams on Trade and Competition Policy and Innovation and Entrepreneurship. During his 30-year career at the World Bank, Mr. Tilmes held positions as Director of Strategy and Operations in the Financial and Private Sector Development Network; Knowledge Strategy Advisor; Manager at the Independent Evaluation Group; and Advisor, Corporate Strategy Group. He holds a Master's degree in Public Administration from Harvard University and a Master's in Economics from the University of Mannheim.

Banning Garrett

Member

BANNING GARRETT is Faculty of Global Policy and Development at Singularity University. He is a Washington-based strategic thinker, writer, keynote speaker, and entrepreneur who focuses on the impact of exponential technologies and their intersection with long-term global trends, urbanization, and geopolitics. Dr. Garrett was founding director of the Atlantic Council's Strategic Foresight Initiative and created and led the Council program on the implications of emerging technologies and its Urban World 2030 program. He was Director of the Council Asia Program (2003-2012) and in 2006 established and subsequently led the Council's cooperation with the National Intelligence Council (NIC) in production of the NIC unclassified, quadrennial long-term global trends assessments, including Global Trends 2025: A Transformed World (2008) and Global Trends 2030: Alternative Worlds (2012). Dr. Garrett has also worked on US-China relations since the 1970s and has made sixty trips to China since 1981 for consultations with Chinese officials and analysts as well as numerous similar visits to Russia, Taiwan, Japan, and South Korea. He also traveled with the National Intelligence Council on more than a dozen trips to most of the G-20 countries in Asia, Africa, Latin America, and Europe for global trends consultations. Dr. Garrett received his B.A. in the History of Social Thought and Institutions from Stanford University and his Ph.D. in Politics from Brandeis University.

Patricia Gruber

Member

PATRICIA GRUBER recently served as the Technical Director at the Office of Naval Research (ONR) Global, an organization within the U.S. Department of the Navy responsible for the science and technology programs of the U.S. Navy and Marine Corps. In this capacity, Dr. Gruber led a group of technical experts who maintain global technology awareness, facilitate international research collaboration, and provide science and technology advice and support to operational Fleet/Forces. Previously, Dr. Gruber served as vice President of the Maritime Systems Division at the Batelle Memorial Institute (2012–2013) and the deputy director of the Applied Research Lab (ARL) at the Pennsylvania State University (2009–2012). Dr. Gruber has also served as the Director of Research at ONR, where she was responsible for Naval Science and Technology strategic planning and for the overall integration of the \$900M fundamental research portfolio in support of naval mission areas (2006–2008). Dr. Gruber has held a number of technical management and business development positions at Lucent Technologies Bell Laboratories and Marconi Communications. At AT&T Solutions, she was a solution architect responsible for development and implementation of complex IT outsourcing contracts. As a Distinguished Member of Technical Staff at AT&T Bell Laboratories, she was a program manager for Navy undersea surveillance programs. Dr. Gruber began her career as a research physicist in the Acoustics Division at the Naval Research Laboratory. Dr. Gruber is a recipient of Superior Public Service and Superior Civil Service Awards. She was a consultant to the Army Science Board and the Naval Research Advisory Council. Dr. Gruber holds a B.S. in meteorology from Pennsylvania State University and a M.S. and Ph.D. in marine physics from the University of Miami.

Paul A. Pisano

Member

PAUL PISANO is an independent consultant for transportation operations. Previously, Mr. Pisano was the Team Leader of the Road Weather and Work Zone Management Team in the Federal Highway Administration (FHWA), Office of Transportation Operations. Mr. Pisano worked for the FHWA for over 32 years and was responsible for programs that address the effects of weather on transportation safety and operations, and that seek to improve transportation safety and mobility in and around work zones. Mr. Pisano also served as the Team Leader of the Road Weather Management, in addition to the Traffic Safety Research Team at FHWA. Mr. Pisano is the recipient of the 2016 Kenneth C. Spengler Award from the American Meteorological Society, and his education is in Civil Engineering, holding Bachelor of Science and Master of Science degrees from the University of Maryland.

Catherine L. Ross

Member

CATHERINE ROSS is the Regents' Professor and Harry West Chair in the School of City and Regional Planning and Civil and Environmental Engineering at Georgia Institute of Technology. Dr. Ross is an internationally recognized expert on transportation systems planning, urban and regional planning, resiliency, and analytics. She has extensive experience in both the public and private sectors and directs the Georgia Institute of Technology's Center for Quality Growth and Regional Development. She is a member of the National Academy of Public Administration and past president of the National Association of Collegiate Schools of Planning. Dr. Ross has served on numerous National Academies committees including the Transportation Research Board Executive Committee, University Transportation Centers Program, and on the board of directors of the Eno Transportation Foundation. In July 2009, Dr. Ross advised the Obama Administration on the first-ever White House Office of Urban Affairs. She is the editor of *Megaregions: Planning for Global Competitiveness* (Island Press, 2009) and the co-author of *The Inner City: Urban Poverty and Economic Development in the Next Century* (1997). Her most recent book *Health Impact Assessment* was published in 2014. Dr. Ross researches transportation and urban planning and how to make cities, neighborhoods, and regions safer, healthier places to live. Dr. Ross earned a master's degree and a Ph.D. in City and Regional Planning from Cornell University and completed post-doctorate work at the University of California, Berkeley.

Sarah Thorn

Member

SARAH THORN is Senior Director of Global Government Affairs at Walmart, primarily responsible for managing global government relations related to supply chain and trade issues. In this capacity, she advocates for Walmart priorities in legislation and trade negotiations that impact the company's worldwide sourcing, e-commerce and retail distribution rights. She also leads a team that drives global public policy in support of Walmart's responsible sourcing commitments. Most recently, Ms. Thorn has expanded her portfolio to manage Walmart's UK government relations, focused on BREXIT negotiations. Before joining Walmart, Ms. Thorn worked for seven years at the Grocery Manufacturers Association where she led the food, beverage and consumer products industry advocacy on international trade issues. She has also worked as a consultant for PricewaterhouseCoopers on business mobility issues and served as an international relations representative with AMP Incorporated. She holds a Master of Arts degree in law and diplomacy from the Fletcher School of Law and Diplomacy at Tufts University and a Bachelor of Arts degree in comparative area studies and comparative literature cum laude from Duke University. She serves as co-chair of the board of the U.S. Global Leadership Coalition and Secretary of the Board of the Washington International Trade Association.