



Internet Inclusion: Global Connect Stakeholders Advancing Solutions

5-6 October 2016

Hosted by IEEE, in collaboration with Internet Society, World Bank, and People Centered Internet

Agenda

| Time | Topic |
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| 5 Oct | |
| 11:30-12:00 | Check In |
| 12:00-1:00 | Lunch—<i>Palladian Ballroom</i> <i>Welcoming Remarks (12:15)</i> Mary Ward-Callan , Managing Director, IEEE Technical Activities <ul style="list-style-type: none">• Aniko Szigetvari, Global Head of TMT Group, International Finance Corporation• Ann Mei Chang, Chief Innovation Officer and Executive Director, US Global Development Lab, USAID• Constance Bommelaer, Senior Director of Global Internet Policy, Internet Society• Diego Molano Vega, Minister of ICT of Colombia (2010-2015)• Thomas C. Barrett, Permanent Representative of the European Investment Bank to the United States; Minister of the European Union Delegation to the United States <i>Closing Remarks</i> Manu K. Bhardwaj , Senior Advisor on Technology and Internet Policy to the Under Secretary of State at US Department of State |
| 1:15-1:30 | Armchair Interview with Catherine A. Novelli , Under Secretary of State, US State Department <i>Hosted by Bai K. Blyden</i> , Senior Engineer, Southern Company |
| 1:30-2:30 | State of Internet Inclusion <i>This session will cover the five regions (Africa, Asia, Central and South America, Europe, and North America) from the 13 April Global Connect Stakeholders:</i> |



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| | <p><i>Advancing Solutions event and subsequent developments/work efforts. Speakers will be technical and country representatives with situational knowledge of each region. Each region representative will provide reflections on the identified issues and update on their region's progress, current and future projects, and regulatory/technical challenges.</i></p> <ul style="list-style-type: none">• <i>Moderator: Tereza Horejsova, Director, Project Development and Coordinator of Geneva Internet Platform, DiploFoundation</i>• <i>Africa: Kojo Boakye, Africa Public Policy Manager, Connectivity and Access, Facebook</i>• <i>Asia: Deepak Maheshwari, Director, Government Affairs, India and ASEAN, Symantec; IEEE Member</i>• <i>Central and South America: Antonio Garcia Zaballos, Lead Specialist on Telecommunications, Competitiveness and Innovation Division, Inter-American Development Bank</i>• <i>Europe: Erik Ekudden, VP Head of Technology Strategy, Ericsson</i>• <i>North America: Mark Buell, Regional Bureau Director for North America, ISOC</i> |
| 2:30-3:30 | <p>Thematic Roundtables Part One: <i>What Will It Take? Setting the Conditions for Success 2020</i></p> <p><i>To weave together shared goals and attain common purpose, discussion leaders will set out the parameters of the themes and invite comment and feedback to create a statement of each theme. Several of the themes are linked to the outcomes of the High-Level Roundtable on Internet for All, hosted by the World Economic Forum.</i></p> <p><i>Example for Success 2020: Mei Lin Fung, People Centered Internet</i></p> <p><i>This session will start with information about the IEEE Special Interest Group on Humanitarian Technologies (IEEE SIGHT) work in Tunisia.</i></p> <ul style="list-style-type: none">• Kartik Kulkarni, IEEE SIGHT Chair• Skandar Mansouri, IEEE Student Chapter Leader• Ahmed Selmi, IEEE Student Chapter Leader <p><i>Introduction of themes: Eric White, Project Lead, Internet for All, World Economic Forum</i></p> <p>Themes and their lead discussants</p> <p><i>Improving Data for Internet Inclusion</i> Michael Kende, Internet Society Bonnie Sakallaris, Samueli Institute</p> |



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| | <p><i>Coordination on Basic Digital Skills Training</i> Paul Mitchell, Microsoft Mitchell Baker, Mozilla</p> <p><i>Impact Investing for Connectivity</i> John Garrity, USAID John Ryan, People Centered Internet</p> <p><i>Gender and the Digital Divide</i> Nilmini Gunaratne Rubin, Tetra Tech Ritu Sharma, SDG Nexus Gary Fowlie, ITU</p> <p><i>Infrastructure Development</i> Hervey Allen, NSRC Andres Maz, Cisco</p> <p><i>Mapping Gaps for Connect to Thrive</i> Robert Ballance, White House Presidential Innovation Fellow Jim Sterne, People Centered Internet</p> <p><i>Policies for Competition</i> Sean Flynn, Scripps College Deepa Prahalad, People Centered Internet</p> <p><i>Sustainable Development Goals Impact Framework</i> Jonathan Metzger, NetHope Yasmina McCarty, GSMA</p> <p><i>eGov/ePublic Services</i> Diego Molano Vega, Minister of ICT of Colombia (2010-2015)</p> <p><i>Youth and Connectivity</i> Susan Maravetz, International Connector Skandar Mansouri, IEEE</p> |
| 3:30-3:45 | Coffee Break |



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| 3:45-4:40 | <p>Thematic Roundtables Part Two: <i>Identify the Steps for Making Progress Together</i></p> <p><i>The breakout groups from the previous session will reconvene and continue discussions to identify the most effective and efficient coordinated action to begin working within the parameters defined by the breakout groups in Part One.</i></p> <p><i>Roundtable facilitators will be the discussion leaders from the nine themes in the Thematic Roundtable Part One.</i></p> |
| 4:45-4:50 | <p>Remarks</p> <p>Dean C. Garfield, Information Technology Industry Council, CEO</p> |
| 4:50-5:10 | <p>Day One Wrap-up</p> <p>Mei Lin Fung, People Centered Internet Eric White, Project Lead, Internet for All, World Economic Forum</p> |
| 5:15-7:00 | <p>Social Reception—<i>Palladian Ballroom</i></p> <p>Daniel A. Sepulveda, Deputy Assistant Secretary of State; US Coordinator for International Communications and Information Policy, Bureau of Economic and Business Affairs, US State Department</p> |
| 6 Oct | |
| 8:30-9:00 | <p>Breakfast</p> |
| 9:00-9:15 | <p>Opening Remarks</p> <p>Megan Smith, Chief Technical Officer, US White House</p> |
| 9:15-10:15 | <p>Roundtable: <i>Technologists Connection</i></p> <p><i>Led by the IEEE and the White House, this interactive roundtable discussion will feature the unique role of technologists working among all stakeholders to identify high-impact projects and to advance and realize solutions.</i></p> <ul style="list-style-type: none"> • <i>Moderator: Deepak Maheshwari, Director, Government Affairs, India and ASEAN, Symantec; IEEE Member</i> • Suhas Subramanyam, Policy Advisor, White House, Office of Science, Technology and Policy • Erikas Napius, President, Umoya, Inc. • Bai K. Blyden, Senior Engineer, Southern Company |



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| | <ul style="list-style-type: none"> • Funke Opeke, CEO, Main One • Art Kazmierczak, Director of Business Development, Americas, Telia Carrier • Mahabir Pun, Founder, Nepal Wireless |
| 10:15-10:30 | Coffee Break |
| 10:30-11:00 | <p>Public Knowledge/Access Now Panel: <i>Launch of the Principles and Recommendations on Connectivity and Human Rights</i></p> <p><i>This session will launch the Draft Principles and Recommendations on Connectivity Investment and Human Rights, and the Global Connect Working Group on Connectivity, Human Rights, and Development to a broader audience.</i></p> <p><i>These principles aim to ensure that initiatives and funding for connectivity projects and infrastructure account for human rights at their core and implement these by design. The panel discussion features some of the key leaders who have supported and engaged with the Global Connect Initiative since its inception and who coordinated the drafting of the human rights principles. The goal of the session is to present the importance of the human-rights-based framework and discuss next steps for multistakeholder engagement and future government adoption and implementation.</i></p> <ul style="list-style-type: none"> • <i>Moderator: Peter Micek, Global Policy and Legal Counsel, Access Now</i> • Chris Lewis, Vice President for Government Affairs, Public Knowledge • Deborah Brown, Senior Project Coordinator, Association for Progressive Communications • Stuart Hamilton, Deputy Secretary General and Director of Policy and Advocacy, International Federation of Library Associations and Institutions |
| 11:00-11:30 | <p>Lightning Talks</p> <p><i>In this segment, technologies and deployment experts look at the key new technologies that will be required to make internet for all vibrant, affordable, and valuable: next-generation wireless technologies, equal access, cyber-security, trust technologies such as blockchain, and more.</i></p> <ul style="list-style-type: none"> • <i>Moderator: John Ryan, People Centered Internet</i> • Mitchell Baker, Mozilla Foundation • Michelle Pampin, WireTheWorld • Sonia N. Jorge, Alliance for Affordable Internet • Blair Levin, Brookings Institute and Gig.U • John Holmblad, University of Maryland • Chelsea Palmer, Human Data Commons |



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| 11:30-12:15 | <p>Business Dialogue: <i>Business and Technology: Creating Ecosystems to Thrive</i></p> <p><i>One of the critical elements of sustainable internet-enabled initiatives is the delivery of economic uplift for local economies. How can we develop the necessary ecosystems that leverage the internet to support jobs and growing businesses?</i></p> <ul style="list-style-type: none"> • Moderator: Gary A. Bolles, Charrette LLC • Vint Cerf, “What it means to ‘Connect to Thrive?’” (via video-taped message) • Kara Sprague, McKinsey and Company • Dorron Mottes, nFrnd |
| 11:30-12:15 | <p>Financing Connectivity: Innovative Models for Capitalizing Inclusive Global Connectivity Workshop</p> <p><i>This engaged dialogue features leaders on the forefront of financial connectivity and delivery. The session provides a hands-on and practical immersion into cutting-edge social-commercial financial structures and financing strategies that enable last-mile connectivity and resilient systems transformation of the most pressing challenges facing people, planet, and prosperity.</i></p> <ul style="list-style-type: none"> • Moderator: Amber Nystrom, CEO, Dakia Institute; Founder, Triple Revolution Capital Guild • John Ryan, Founder and Organizer, People Centered Internet • Holly Ruxin, Founder and CEO, Montcalm TCR • Jared Dubey, Founder and Senior Managing Director, Athos II Holdings • Bert Bryan, COO, Dakia Global Enterprise • Alex Hadden, ICT Lead, Overseas Private Investment Corporation |
| 12:15-1:00 | <p>Lunch—Hampton Ballroom and Foyer With a presentation on <i>Empirical Research into Innovative Approaches to Connecting the Unconnected (12:45)</i></p> <p><i>Although businesses, civil society organizations, and governments have initiated a wide range of new strategies for connecting the unconnected, to date no one has systematically analyzed these initiatives or conducted an empirical assessment of their effectiveness. This project that seeks to fill this void by cataloging all recent and ongoing innovative efforts to expand the internet’s reach and by conducting and disseminating case studies empirically assessing their impact.</i></p> <p>Christopher Yoo, Professor, University of Pennsylvania</p> |



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| <p>1:15-2:15</p> | <p>Connecting to Thrive</p> <p><i>This panel will present the results of the 5 October discussion groups in a moderated session focused on collaboration for synergy and success. Country representatives are invited to speak up and identify the themes and first steps that will support their people connecting to thrive.</i></p> <p>Moderator: Eric White, Project Lead, Internet for All, World Economic Forum</p> <p>Panelists will be the discussion leaders from the ten themes in the Thematic Roundtable Part One.</p> |
| <p>2:15-3:00</p> | <p>Expert Panel: Opportunity Landscape Review: <i>The Local-Global Connectivity Evolution: Scaling Impact Infrastructure to Catapult GCI Success 2020</i></p> <p><i>“Impact Infrastructure” elevates one of the world’s most resilient asset classes into a mass-scale tool for catapulting resilient and inclusive connectivity, prosperity, and sustainable development. This engaged session presents multiple lenses for understanding impact infrastructure and financing, and for engaging in this next vital frontier for catapulting connectivity forward worldwide.</i></p> <ul style="list-style-type: none"> • Moderator: Amber Nystrom, CEO, Dakia Institute; Founder, Triple Revolution Capital Guild • Lawrence Bloom, Secretary General, BeEarth Foundation; Co-Chair, Dakia Institute • Xavier Adserá, Founder and Senior Partner, Adequita Capital • Chris Rezendes, Founder and CEO INEX Advisors, INEX IoT Impact LABS and IoT Capital Partners • Camilo Salomon, Founder and CEO, Global Infrastructure Advisors |
| <p>3:00-3:15</p> | <p>Coffee Break</p> |
| <p>3:15-4:15</p> | <p><i>The Roadmap for Connect to Thrive</i></p> <p><i>Participants will gather in the five regions of the world and share which themes match which countries for testing in each region. Discussion will focus on funding specific initiatives and projects to identify the test steps in each country. Participants will develop coordination plans and commitments, working together to identify policy opportunities/threats and to create a short-, medium- and long term roadmap for financing connectivity to thrive. This session will set the stage for working together over the next years so we can assure people connect to thrive by 2020.</i></p> |



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| | <p><i>Breakout Group Regions:</i> Africa, Asia, Central and South America, Europe, and North America</p> |
| 4:15-4:45 | <p>Panel: <i>We Succeed by Working in Concert</i></p> <p><i>This final session of will weave together the threads of our efforts to create a fabric for the future so we can work purposefully in concert to advance solutions that create the conditions for success for internet inclusion.</i></p> <ul style="list-style-type: none">• <i>Moderator: Manu K. Bhardwaj, Senior Advisor on Technology and Internet Policy to the Under Secretary of State at US Department of State</i>• Pierre Guislain, Senior Director, World Bank• Edmund DiSanto, Executive VP, Chief Administrative Officer, General Counsel and Secretary, American Tower• Konstantinos Karachalios, Managing Director, Standards Association, IEEE• Marian Croak, VP, R&D Access and Emerging Markets, Google |
| 4:45-4:55 | <p>Summary and Next Steps</p> <p>Suhas Subramanyam, Policy Advisor, White House, Office of Science, Technology and Policy</p> |
| 4:55-5:00 | <p>Close of Meeting</p> <p>Mary Ward-Callan, Managing Director, Technical Activities, IEEE</p> |



Xavier Adserá

Xavier is the founding partner of Adequita Capital, a London-based company that provides financial services to complex projects. Xavier served as CEO of the private equity firm Veremonte, a lead promoter of BCN World and Formula-E (FIA formula-e championship). Prior to Veremonte, Xavier served as Chair of Natraceutical, a Spanish multinational company, working in research and development of natural functional ingredients, active principles, and nutritional supplements for the food, pharmaceutical, and cosmetics industries.

For four years Xavier was chair of the Spanish Institute of Financial Analysts (IEAF) and of its Foundation of Financial Studies. The IEAF is the Spanish branch of the European Federation of Financial Analysts, CEFFA. In 2010, Xavier was appointed as member of its honorific board in recognition of the outstanding services provided to the entity and the Spanish financial markets.

Xavier is a member of the board of directors of several private and public companies in Spain in a wide array of sectors. Parallel to his business responsibilities, Xavier has been the head professor of long-term financial strategy at ESADE Business School (Barcelona, Spain), where he is still a member of the professors' senate.

Xavier is the co-author of a book on business valuation, *Principios de Valoración de Empresas (Principles of Corporate Valuation)*. He received his Bachelor in Business Administration from ESADE (Barcelona, Spain); an MBA from ESADE; and has conducted post-graduate programs with Harvard Business School, Sloan School of Management (MIT), and Stern (NYU).



Hervey Allen

Hervey Allen works for the Network Startup Resource Center (NSRC) as its Assistant Director. The NSRC provides technical information, engineering assistance, training, equipment, and educational materials to network operators at research and education institutions and internet service providers in emerging regions. Over the past few years, Hervey has done extensive organizing, coordinating, and teaching in network workshops and tutorials covering topics such as network monitoring and management, Unix system administration, security best practices, DNSSEC, scalable network services, and campus network design. These workshops have been held in over 40 countries around the world and have been part of events such as APRICOT, APNIC, SANOG, AfNOG, PacNOG, WALC, and multiple ccTLD trainings.

Before joining the NSRC Hervey graduated from the University of Oregon with a degree in computer science, and Pomona College in Los Angeles, California with a degree in the history of science. He has run and built help desks at Pomona College and the University of Oregon, was a systems engineer with Turbolinux, Inc., and worked with several non-profit organizations building their technical infrastructure. Hervey is a member of several coordinating and planning committees for larger Network Operator Group (NOG) events, such as AfNOG, APRICOT PACNOG, and SANOG.



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Mitchell Baker

Mitchell Baker co-founded the Mozilla Project to support the open, innovative web and ensure it continues offering opportunities for everyone. As Executive Chairwoman of Mozilla, Mitchell Baker is responsible for organizing and motivating a massive, worldwide collective of employees and volunteers around the world who are building the internet as a global public resource, open and accessible to all. Mitchell is deeply engaged in developing product offerings that promote the mission of empowering individuals. She also guides the overall scope and direction of Mozilla's mission.

Mitchell is a board member for the OpenMRS and is an MIT Media Lab research affiliate, Open Agriculture Initiative. She co-chairs the US Department of Commerce Digital Economy Advisory Board and serves on the United Nations High Level Panel on Women's Economic Empowerment.

In 2012, Mitchell was inducted into the founding group of the Internet Society's Hall of Fame. *TIME* magazine profiled Mitchell in its global list of "100 Most Influential People" and *Bloomberg* listed her as one of the "25 Most Influential People on the Web." She was the winner of the Anita Borg Institute's 2009 Women of Vision Award and received the Aenne Burda Award for Creative Leadership in 2010.



Robert Ballance

Dr. Robert Ballance is currently serving as a White House Presidential Innovation Fellow and most recently was a distinguished member of technical staff at Sandia National Laboratories. A practicing computer scientist, Bob helps people and organizations integrate, deploy, and use rapidly evolving computing systems and new technologies. He received his Ph.D in Computer Science from the University of California, Berkeley.

Bob has worked in many roles: professor, researcher, developer, entrepreneur, consultant, high-performance computing (HPC) system manager, leader of high-tech teams, and IT strategist. Recent projects have included deployment and management of Red Storm (a significant HPC system collaboration between Sandia National Laboratories and Cray, Inc.), coordination of collaborations among national laboratories, and establishing the "Mission Computing Council" at Sandia. While at Sandia, he helped to establish the Cray XTreme User's Group, now incorporated into the Cray Users Group. From 2014-2015, he was secretary of the Cray Users Group. Prior to joining Sandia, he was a co-founder of the the Linux Clusters Institute (LCI), an organization centered on helping organizations as they begin using and operating Linux clusters in education, research, and business.



Thomas C. Barrett

Thomas C. Barrett is Permanent Representative of the European Investment Bank to the United States and Minister of the European Union Delegation to the United States Before taking up his assignment in Washington, DC, Mr. Barrett was



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director of EIB's Advisory Services and New Products departments. He was concurrently Chair of the European PPP Expertise Centre (EPEC), comprising the EIB, the European Commission and EU Member States.

Mr. Barrett has also been EIB director for North Western Europe and was responsible for project financing of the aerospace; oil and gas, and satellite telecommunication industries. He was also responsible for the establishment of the EIB's Centres of Expertise on Trans-European Networks (TENs).

Mr. Barrett is currently a member of the management board of Marguerite Fund for Energy Climate Change and Infrastructure and of the supervisory board of the European Energy Efficiency Fund. Of Irish nationality, he has an INSEAD MBA (France) and is a graduate of the National University of Ireland in mathematics and philosophy.



Manu K. Bharwaj

Manu is a Senior Political Advisor and Staff Coordinator for International Information Technology Diplomacy, reporting to the US Under Secretary of State for Economic Growth, Energy and the Environment. Manu serves as a key advisor to the under secretary on a variety of international economic matters, including technology and internet policy, and has managed the Global Connect initiative among other forward-leaning, proactive efforts for the under secretary and the US Department of State. At the US State Department, Manu has reported directly to three US Ambassadors, including as chief of staff.

Over the past 15 years, Manu has worked in all three branches of the federal government and in two private practice law firms. Manu was an attorney at Willkie Farr & Gallagher in Washington, DC and at Butler Ruben Saltarelli & Boyd in Chicago, Illinois. In addition, Manu has served as a staff member at the US White House Counsel's Office to the Honorable William J. Clinton, a legislative assistant at the US Senate's Judiciary Committee to the Honorable Patrick J. Leahy, staff member to the Honorable Edward M. Kennedy of the US Senate, and judicial law clerk to a US federal judge. Manu graduated with a Bachelor of Arts from Northwestern University and a Juris Doctor from Michigan Law School.



Lawrence Bloom

Lawrence Bloom is currently Secretary General of the Be Earth Foundation, a UN intergovernmental organization that advises, assists, and enables in the implementation of the UN Sustainable Development Goals on behalf those countries with which it has treaties.

He is a board member of Dakia Global, a major infrastructure organization combining creative financial and technical solutions enabling countries, corporations, and sovereign wealth funds to achieve their sustainable development goals and targets. These successes are achieved through public-private



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and social partnerships. He believes that this collaboration is the key to our collective future. He also chairs the Dakia Institute, which is the impact resilience advisor for the Dakia Group,

He was recently voted by *SALT* magazine as among the top 25 Most Conscious Global Leaders, and some months ago received an award at the UN from the Humanitarian Innovation Forum for Conscious Leadership.

Formerly, Lawrence sat on the executive committee of the Intercontinental Hotel Group from where he managed their \$3B global real estate portfolio. While there he created a hotel environmental manual, subsequently adopted by HRH Prince Charles and currently in use in over 5 million hotel bedrooms worldwide. A small part of the manual gave guests the option of whether they wanted their towels washed every night.

Lawrence was appointed the first chair of the World Economic Forum at Davos, Global Agenda Council on Urban Management and he is a current alumnus of all agenda councils. He is former chair of the UN Environmental Programme, Green Economy Initiative, Green Cities, Buildings and Transport Council.



Bai K. Blyden

Over his 34-year professional career, Bai Blyden has contributed his expertise to over forty global power plant projects and their associated interconnections. This involved detailed power plant and transmission systems design engineering, systems and operations planning, project development feasibility assessment oversight, and construction management.

An early advocate of an integrated African grid, Mr. Blyden presented a conceptual framework and technical analysis for a centralized African power pool with links to North Africa at the first IEEE Region 8 conference held in Nairobi, Kenya, December 1983. Since then he has authored several papers on African energy development with a particular emphasis on the strategic role of regional power pool interconnections, microgrids, and knowledge development. Towards this end he developed “The African Power Development Knowledge Engine,” an advanced training and development conceptual framework designed to harness the dynamic results created by linking African technical colleges and universities to current international R&D focused on power.

Mr. Blyden earned an MS.EE from Moscow Energetics Institute in power systems, generation, and industrial distribution systems. He has been awarded numerous professional development certifications and accreditations. Mr. Blyden is a Senior Member of the IEEE and serves as chair of the IEEE PES International Practices subcommittee for Africa. He serves as a senior advisor to Centric Ltd., a commercial startup with 21st-century structurally advanced and sustainable green building systems. He is also the founder of the strategic consulting group BBRM.

Kojo Boakye

Kojo Boakye is the Africa Public Policy Manager, Access and Connectivity for Facebook. He has more than 10 years of experience working with governments, fixed-line and mobile operators, development



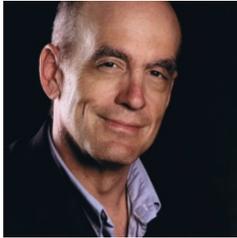
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partners, online service providers, content developers, and civil society organizations. Before joining Facebook, he was the policy and advocacy manager with the Alliance for Affordable Internet (A4AI), and prior to that the program manager at the Commonwealth Telecommunications Organisation (CTO).

In recent years, his work has focused on broadband affordability and access; the use of mobile infrastructure and devices for the delivery of services; strategic planning for universal service funds and ICT regulators; increasing internet access; and understanding ICT users' demand for services, their usage of those services, and perceptions of satisfaction.



Gary A. Bolles

Gary is a Partner at Charrette LLC and the Co-Founder of eParachute.com. He has produced a number of strategic initiatives and conferences for clients such as Google, Singularity University, Dropbox, Intel, London Business School, National Australia Bank, Silicon Valley Bank, L'Oreal, Red Bull, and the UN.

Gary co-founded the US Broadband Coalition and was the co-founder & co-producer of Socap—SocialCapitalMarkets.net (2008), DGREE.org—The Future of Higher Education (2011), Silicon Valley Meets the UN (2009-10), and Closing the Gap: Solutions for an Inclusive Economy (2015). He also served as a consulting producer for Google Zeitgeist (2005-14).

His past experience includes working as an editorial director for *Network Computing*, *Inter@ctive Week*, and *Yahoo! Internet Life* magazines, as well as writing and lecturing on the future of work and learning. Gary co-founded eParachute.com, bringing online the work of *What Color Is Your Parachute?*, the world's best-selling book on job-hunting and career change, with 10 million copies in print in 17 languages.



Constance Bommelaer

Constance is currently Senior Director of Global Internet Policy at The Internet Society. A strategic thinker, coupled with experienced and practical hands-on approach, she is responsible for the department's budget and strategic planning while liaising with ISOC's Regional Bureaus. She also leads the organization's engagement with the UN (SDGs, WSIS, etc.), with a strong focus on issues at the intersection of media development and human rights.

Constance has extensive experience in developing partnerships and building alliances across stakeholder communities including governments, academia, civil society, and business. Well versed in consensus-based and multistakeholder approaches, she served on a number of committees: appointed by the UN Secretary-General to the Multistakeholder Advisory Group (MAG) for the IGF (2015), the World Economic Forum (WEF) Cyber-Resilience Partnership (2013), chair of UNESCO's Mixt Programmatic Commission on ICT and e-Ethics (2009), and founder of the Internet Technical Advisory Committee (ITAC) to the OECD (2008).

In 2010 and 2011 she was responsible for the strategic and operational development of The Internet Society's Next Generation Leaders program, a youth program designed to help prepare young



professionals from around the world to become the next generation of internet technology, policy, and business leaders.



Deborah Brown

Deborah Brown is APC Global Policy Advocacy Lead for the Association for Progressive Communications (APC), where she focuses on internet rights advocacy and fostering good internet governance. She leads APC’s engagement in various UN processes, and has represented APC at the Human Rights Council, UN General Assembly, the World Summit on the Information Society review process (WSIS+10), the International Telecommunications Union, and Inter-American Commission on Human Rights, among others.

Deborah also serves as a Research Advisor for the Global Commission on Internet Governance. Previously, she worked at AccessNow, the United Nations Foundation, and the National Democratic Institute. Deborah received her Master’s degree from Georgetown University in democracy and governance and Arab studies, and her Bachelor’s degree from Barnard College, Columbia University in political science and human rights.



Bert Bryan

Bert Bryan is the Group COO for DAKIA Global, with responsibilities for all financial, corporate, governance, organization, and operational matters across the group and its subsidiaries. Prior to joining DAKIA, Bert founded and managed HASB Global Franchise Finance Alliance, LLC. HASB Global enables branded companies around the world to expand from one country to another by providing international financing and international expansion services.

Prior to launching HASB Global, Bert held executive management roles at a number of financial and banking institutions. Bert has been an instructor for the Association of Financial Professional, CTP exam programs. He is a well-respected speaker at various franchise and financial conferences and events.

Bert is a graduate of Erskine College, where he earned a Bachelor of Science in business administration, with an economics concentration. He was a member of the Erskine College men’s soccer team, ranked top 20 in the country during his tenure, and played in the US national soccer collegiate championships during this period. He is an avid snow skier and loves to play, coach, and watch football (soccer). Bert was born in Jamaica, West Indies and enjoys spending time in the Caribbean, particularly studying how its history and culture has influenced the world, reggae, food, sports, etc.



Mark Buell

Mark Buell is the Internet Society’s Regional Bureau Director for North America. In this role, Mark oversees the Internet Society’s engagement activities in Canada and the United States.



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From 2009 to 2016, Mark held a variety of positions with the Canadian Internet Registration Authority (CIRA), the registry for the .ca country code top-level domain. At CIRA, Mark provided senior-level support for the organization's activities in domestic internet policy and global internet governance fora. In 2010, Mark initiated the Canadian Internet Forum, Canada's IGF, and continued to coordinate the event until 2016.

Prior to joining CIRA, Mark spent a decade working in indigenous health policy, first as a community development officer at an Inuit land claim organization in the Western Canadian Arctic, then as director of communications and research at the National Aboriginal Health Organization in Ottawa. Mark is based in Ottawa, Canada.



Vinton G. Cerf

Vinton G. Cerf co-designed the TCP/IP protocols and the architecture of the internet and is Chief Internet Evangelist for Google. He is also the chair of the People Centered Internet. He is a member of the National Science Board and National Academy of Engineering a foreign member of the British Royal Society and Swedish Royal Academy of Engineering, and a Fellow of ACM, IEEE, AAAS, and BCS. Cerf has received the US Presidential Medal of Freedom, US National Medal of Technology, Queen Elizabeth Prize for Engineering, Prince of Asturias Award, Japan Prize, ACM Turing Award, Legion d'Honneur, and 29 honorary degrees.



Ann Mei Chang

Ann Mei Chang is the Chief Innovation Officer and the Executive Director of the US Global Development Lab at USAID. The lab is the newest bureau at USAID and aims to transform global development through science, technology, innovation, and partnerships. Prior to USAID, Ann Mei was the chief innovation officer at Mercy Corps, an international NGO. She also served as the senior advisor for women and technology in the Secretary's Office of Global Women's Issues at the US Department of State. She conceived and launched the Alliance for Affordable Internet, a public-private partnership that aims to increase internet access to the next billion.

Ann Mei has more than 20 years of engineering and leadership experience in Silicon Valley. She served as a senior engineering director at Google for eight years, where she led worldwide engineering for Google's mobile applications and services. Ann Mei has held leadership roles at several other leading companies, including Apple (leading engineering for the initial release of Final Cut Pro), Intuit, SGI, and a few startups.

Ann Mei was recognized as one of the Women in the World: 125 Women of Impact for 2013 by *Newsweek/The Daily Beast*. She is a member of the 2011 class of Henry Crown Fellows at the Aspen Institute and holds a BS degree in computer science from Stanford University.



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Marian Croak

Marian Croak is the Vice President of Access for the Next Billion Users at Google, Inc. Marian joined Google in late 2014 after retiring from AT&T as a senior vice president responsible for advanced research and innovation, and designing and developing one of the world's largest wireless and broadband networks. Marian holds over 200 patents mostly focused on IP technology. Marian has received numerous awards, including the 2013 and 2014 Edison Patent Awards, was inducted into the Women in Technology International's Hall of Fame in 2013, and, was named by Fierce Wireless as the one of the ten 2014 Most Influential Women in Wireless. She is a strong supporter of STEM initiatives, served on many boards including NACME and Catalyst, and personally mentors many individuals in STEM. Marian attended Princeton University and the University of Southern California, where she received her doctorate in quantitative analysis.



Edmund DiSanto

Edmund DiSanto is the Executive Vice President, Chief Administrative Officer, General Counsel and Secretary of American Tower. Prior to joining American Tower in April 2007, Mr. DiSanto was with Pratt & Whitney, a unit of United Technologies Corporation. Mr. DiSanto started with United Technologies in 1989, where he first served as assistant general counsel of its carrier subsidiary, then corporate executive assistant to the chairman and chief executive officer of United Technologies. From 1997, he held various legal and business roles at its Pratt & Whitney unit, including deputy general counsel and most recently, vice president, global service partners, business development. Prior to joining United Technologies, Mr. DiSanto served in a number of legal and related positions at United Dominion Industries and New England Electric Systems. Mr. DiSanto earned a J.D. from Boston College Law School and a Bachelor of science from Northeastern University. In 2013, Mr. DiSanto became a member of the board of directors of the Business Council for International Understanding.



Jared Dubey

Jared Dubey is Senior Managing Director of Athos II Holdings, a privately-held consulting firm and principal investment company focused on direct and syndicated co-investments with select single-family offices and institutional investors globally. He is based in New York City. Prior to Athos II Holdings, Mr. Dubey was an advisor at UBS Financial Services Inc., where he advised single-family offices and major US Institutional Investors on matters of asset management and structuring, direct and co-investing, philanthropy, and family governance. Prior to joining UBS in 2009, he was an advisor with Citi Family Office and began his career as an associate for a single-family office based in the US and Monaco.



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Mr. Dubey was the subject of *Private Wealth Magazine's* March 2014 cover article, "Serving Billionaires in Waiting," and co-authored the 2014 book *Taking the Reins: Insights into the World of Ultra-Wealth Inheritors*, a research-based study of 114 beneficiaries inheriting at least US\$100 million individually (or US\$500 million within a family-office vehicle) on the psychological and behavioral components and challenges of inherited wealth. Additionally, he serves as an advisor to the Family Office Association's Next Generation Entrepreneurship Program, and has been a featured speaker at the Family Office Association, Nexus Global Youth Summit at the United Nations, and Cavendish Global Health Impact Forum at Cleveland Clinic.

Mr. Dubey is passionate about transformative technology investment and philanthropy focused on neurological research and life sciences, women's health and poverty, and environmental conservation.



Sean Flynn

Sean Flynn is an associate professor of economics at Scripps College in Claremont, California. He is the author of the international best-seller *Economics for Dummies*, which has been translated into seven foreign languages, as well as the coauthor, along with Campbell McConnell and Stanley Brue, of the world's best-selling college economics textbook, *Economics: Principles, Problems, and Policies*. The latter is also the world's best-selling textbook of any subject.

An avid martial artist, Sean is a former aikido national champion and has coached six of his students to U.S. national aikido titles. Sean's research specialties are behavioral economics and behavioral finance, with a focus on irrational investors. A commentator on FOX Business, ABC News, and NPR, Sean holds a Ph.D. in economics from UC Berkeley, where he completed his dissertation under the supervision of 2001 Nobel Laureate George Akerlof.



Gary Fowlie

Gary Fowlie is the Head of the International Telecommunication Union (ITU) Liaison Office to the United Nations. ITU is the specialized agency of the United Nations responsible for information and communication technology.

Mr. Fowlie led a UN interagency effort to ensure that science, technology, and innovation were adopted as key catalysts for the achievement of the UN Sustainable Development Goals (SDGs). His work focused on information and communication technology (ICT) targets in the areas of education, gender equality, infrastructure (universal and affordable access to the internet), and as a means of implementation across all 17 sustainable development goals. The UN sustainable development agenda, an agreed blueprint for sustainable development in all nations, came into effect on 1 January 2016. It recognizes "*global connectivity and ICTs as having great potential for human progress.*"

Prior to joining the UN and ITU, Mr. Fowlie worked as an account director for the global technology practice of the consulting firm Hill and Knowlton. At the United Nations he was responsible for communications strategy for the UN World Summit on the Information Society. From 2005-2009 he



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occupied the post of chief of media liaison for the United Nations in New York. He is an economist and journalist, having worked for the news service of the Canadian Broadcasting Corporation and The Economist.

Mr. Fowlie is a graduate of the Universities of Alberta, Alabama, and the London School of Economics.



Mei Lin Fung

Mei Lin Fung is Organizer for the People Centered Internet chaired by Vint Cerf. She was with the Federal Health Futures initiative funded by the US Department of Defense, serving as socio-technical lead from 2011-2013. An early pioneer of the customer relationship management (CRM) industry at Oracle where she worked with Tom Siebel and Marc Benioff, incorporating insights from Andy Grove and her work at Intel. She learned finance under future Nobel laureates in Economics Franco Modigliani, Robert Merton, and with Fisher Black at MIT. Her first job was as an assembler programmer for Shell Australia. She is from Singapore.



Antonio García Zaballos

Antonio García Zaballos is Lead Specialist on Telecommunications in Institutions for Development and he is also the leader of its broadband initiative. He has extensive experience in the telecom sector where has worked in different positions of responsibility. At Deloitte Spain, he led the practice of regulation and strategy for Latin America and the Caribbean, and previously he was the chief economist of the Cabinet for Economic Studies of Regulation in Telefónica of Spain. Before joining Telefónica, Antonio was Deputy director of economic analysis and markets at the Spanish telecom regulator (CMT).

During his career, Antonio has provided advisory services to regulators, telecom operators, and governments in countries such as Saudi Arabia, China, Ecuador, Argentina, the Dominican Republic, Paraguay, Polonia, and the Czech Republic. He holds a PhD in Economics from the University Carlos III of Madrid and is an associate professor of applied finance to telecommunications at the Instituto de Empresa Business School. He is author of several publications on economic and regulatory aspects for the sector of telecommunications.



Dean C. Garfield

Dean Garfield is the President and CEO of ITI, the global voice of the tech sector. Under Dean's leadership, ITI has defined the tech agenda for global policymakers, expanded its membership and influence, and launched a foundation that serves as the preeminent thought leader on innovation. Prior to joining ITI, Dean served in leadership positions for both the MPAA and RIAA. Dean serves on the boards of College for Every Student, the SEED School of



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Washington, D.C. and serves as the Board President of Aiden Montessori School. He received a joint degree from New York University School of Law and the Woodrow Wilson School of Public Administration and International Affairs at Princeton University.

In 2015, Dean was named Top Lobbyist by *The Hill* for his leadership of ITI and his work with companies and stakeholders to make tech a more diverse and inclusive industry. Dean was honored with the first REACH Breaking Barriers Award in May 2010, recognizing him for his deep commitment to leading the world's most dynamic industry in its efforts to support and inspire young people to develop the important science, technology, engineering and math (STEM) skills they must have to become tomorrow's scientific problem solvers.



John Garrity

As Senior Connectivity Advisor within the Global Development Lab, John Garrity drives the US Agency for International Development's operations on extending internet access and adoption through policy engagement and program management. This includes identifying and shaping policy and regulatory reform with respect to broadband expansion, engaging with various public and private stakeholders, leading on the technical aspects of developing and maintaining public-private partnerships around digital infrastructure investments and expansion, and assessing feasible technologies for last- and middle-mile infrastructure deployments, including identifying new, low-cost technologies that might replace current infrastructure.

Before USAID, Garrity spent ten years at Cisco, most recently as senior manager of policy research, managing technology policy engagements and articulating the appropriate policies to expand broadband infrastructure deployment. His first role at Cisco was as manager of emerging market strategy, responsible for advising Cisco's emerging markets expansion strategy across 130 countries by utilizing macroeconomic analysis and engaging in the public dialogue on the role of information and communications technologies. Prior to Cisco, Garrity was in the corporate strategy group at the World Bank, and he held previous roles at the US Federal Trade Commission and in state government. He holds undergraduate and graduate degrees in applied economics from The Ohio State University.



Pierre Guislain

Pierre Guislain, a Belgian national, is (since July 2014) the Senior Director for the Transport and Information & Communication Technologies (ICT) Global Practice at the World Bank, providing support to developing countries in improving their connectivity and competitiveness by linking people to markets, services, and employment opportunities.

Transport is the World Bank's largest lending sector, accounting for about 20% of the total portfolio, while ICT is increasingly at the core of development solutions in all sectors. Major areas of emphasis for Transport & ICT include an increased focus on climate change (mitigation and



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adaptation), urban mobility, road safety, regional connectivity, multimodal transport, and logistics, as well as broadband development, internet access, and digital platforms and solutions for public services.

Pierre was previously (2006-2014) the director of the joint Bank-IFC-MIGA Investment Climate Department (CIC). In this position, he also served as co-director at IFC for fragile and conflict-affected countries. Pierre joined the World Bank Group in 1983.

He holds an MPA in economics and public policy from Princeton University, as well as a graduate degree in Belgian and international law and a Bachelor's degree in philosophy from the Université Catholique de Louvain.



Alexander Hadden

Alexander Hadden is a Director with the Structured Finance & Insurance Department at the Overseas Private Investment Corporation (OPIC), the US government's development finance institution. OPIC mobilizes private capital to help solve critical development challenges and in doing so, advances US foreign policy. Mr. Hadden originates and underwrites project finance, commercial finance, and risk sharing frameworks for investments in emerging markets. Most recently, he has been active underwriting investments in mobile and fixed broadband operators (using both licensed and unlicensed spectrum) in Latin America and South Asia.

Previously, with OPIC's Investment Funds department, he monitored the performance of OPIC financing for private equity funds, including investments in East African telecommunications. Prior to joining OPIC, Mr. Hadden was a capacity building specialist with the public-private partnership (PPP) unit at Tetra Tech Inc. and a loan officer at Citibank. He received his Master's degree from the Patterson School of Diplomacy and International Commerce at the University of Kentucky.



Sonia N. Jorge

Sonia N. Jorge is an expert in the confluence of development and communications policy. She has over 25 years of diverse international experience in a career spanning both the private and not-for-profit sectors. Currently, she is the Executive Director of the Alliance of Affordable Internet and serves as the Director of Digital Inclusion Programs at the Web Foundation.

Her work has included ICT policy and regulatory advice and analysis, strategic industry planning, national ICT/broadband policy development, and the creation of new legal and regulatory frameworks to address issues around competition, cost-based pricing, spectrum allocation, and infrastructure sharing. Sonia is an avid advocate of gender equality in development, and has worked extensively to promote gender analysis and awareness in the ICT planning process, as well as an understanding of the importance of universal access and digital inclusion for development.

Sonia has worked in over 30 countries around the globe, and assumed her current role on 1 July 2013, having previously been Director of Research & Consulting at Pyramid Research. She holds a



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Master's degree in public policy, a degree in economics and business finance, and is fluent in Portuguese, Spanish, and English.



Tereza Horejsova

Dr Tereza Horejsova is Director for Project Development at DiploFoundation. She holds an MA in international area studies and a PhD in European studies, both from the Charles University in Prague. Tereza has had an international career in academia and the non-governmental sector in the Czech Republic, the United Arab Emirates, and Switzerland.

Since 2012 she has worked for DiploFoundation, an NGO providing capacity development programs in digital policy and related issues. During her professional stay in Geneva (2012-2016), she helped conceptualize and coordinated the activities of the Geneva Internet Platform, an initiative of the Swiss authorities operated by Diplo. Tereza is currently based in Washington DC.



Konstantinos Karachalios

A globally recognized leader in standards development and intellectual property, Dr. Ing. Konstantinos Karachalios is Managing Director of the IEEE Standards Association and a member of the IEEE Management Council.

As managing director, he has enhanced IEEE efforts in global standards development in strategic emerging technology fields, through technical excellence of staff, expansion of global presence and activities, and emphasis on inclusiveness and good governance, including reform of the IEEE standards-related patent policy.

As member of the IEEE Management Council, he championed expansion of IEEE influence in key techno-political areas, including consideration of social and ethical implications of technology, according to the IEEE mission to advance technology for humanity. The results have been rapid in coming and profound; IEEE is becoming the place to go for debating and building consensus on issues such as a trustworthy and inclusive Internet and ethics in design of autonomous systems.

Before IEEE, Konstantinos played a crucial role in successful French-German cooperation in coordinated research and scenario simulation for large-scale nuclear reactor accidents. And with the European Patent Office, his experience included establishing EPO's patent academy, the department for delivering technical assistance for developing countries and the public policy department, serving as an envoy to multiple UN organizations.

Konstantinos earned a Ph.D. in energy engineering (nuclear reactor safety) and a Master's in mechanical engineering from the University of Stuttgart.



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Art Kazmierczak

Art Kazmierczak is the Director of Network and Business Development for Telia Carrier. Art has over 20 years of international experience working in product management, sales, and engineering roles in internet companies. The last 16 years he has been part of the team that has contributed to Telia Carrier's organic growth to becoming one of the 2 largest internet backbones globally.

In his current role, Art is responsible for evaluating new markets and infrastructure for network and market expansion. He is also supporting strategic initiatives for custom network projects where Telia Carrier designs, builds, and operates innovative high-capacity networks for large internet carriers and content providers.

Art holds a Master's degree in electrical and computer engineering from Marquette University and has previously worked with Ford Motor Company and Astronautics Corporation of America.



Michael Kende

Michael is a Senior Advisor at Analysys Mason, and a Senior Fellow at the Internet Society. Michael has done a significant amount of work on promoting internet development in emerging regions around the world. In East Africa, Michael has done studies on barriers to internet infrastructure, the benefits of internet exchange points, and how to promote local content availability. More broadly, he has worked with governments around the world, including in Kyrgyz Republic, Lesotho, and Peru, on how to promote broadband availability and increase adoption and use of the internet.

Michael has a Ph.D. in economics from MIT. After MIT, he spent five years as a professor of economics at INSEAD, a business school near Paris, before joining the US Federal Communications Commission. At the FCC, Michael was the director of internet policy analysis, where he was responsible for managing a wide range of policy analyses and regulatory decisions. In Fall 2016, Michael will be teaching a new course on internet economics at the Graduate Institute of Geneva.



Kartik Kulkarni

Kartik Kulkarni is a Senior Member of Technical Staff at Oracle Corporation's Data and In-Memory Technology Group. He is a primary contributor to the Oracle In-Memory Database which enables real-time data analytics on mission-critical information systems in fields including ecommerce, financial services, insurance, and healthcare. He develops memory-hardware aware algorithms (patents pending) to enable scale-out of transactions processing and high availability of data. Kartik earned his Master's from Carnegie Mellon University (CMU) in electrical and computer engineering, and he is an alumnus of CMU's Parallel Data Lab.

Kartik chairs the IEEE Special Interest Group on Humanitarian Technology (SIGHT) Steering Committee. SIGHT is a growing community of 90+ groups of engineers in 34 countries and five IEEE



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Technical Societies, working on solving community problems using technology solutions. In 2015, this community engaged 1700+ engineers benefiting 20,000+ people through projects and activities in the areas such as education, energy, health, and assistive technologies. Kartik was recognized as a 2015 USA's New Face of Engineering by DiscoverE Foundation.

Kartik believes that IEEE, being a community of 450,000+ engineers in 160+ countries, can be a strong global taskforce of engineers committed to championing technology solutions for development and solving community problems. This taskforce, if oriented and channeled, could produce local community leaders in important efforts such as activism, awareness, advocacy, and deployment of technology based solutions.



Blair Levin

Blair Levin serves as a non-resident Senior Fellow of the Metropolitan Policy Project of the Brookings Institute. He also serves as the Executive Director of Gig.U: The Next Generation Network Innovation Project, an initiative of three dozen leading research university communities seeking to accelerate the deployment of next generation networks.

From 2009-2010, Mr. Levin oversaw the development of the FCC's National Broadband Plan. FCC Chair Tom Wheeler praised Mr. Levin's work, noting "no one's done more to advance broadband expansion and competition through the vision of the National Broadband Plan and Gig.U." Prior to his work on the National Broadband Plan, Mr. Levin worked as an equity analyst at Legg Mason and Stifel Nicolaus.

He is the co-author, with Reed Hundt, of *The Politics of Abundance* (2012) and, with Denise Linn, of *The Next Generation Connectivity Handbook: A Guide for Community Leaders Seeking Affordable, Abundant Bandwidth* (2014), as well as numerous articles on telecommunications policy. From 1993-1997 Levin served as chief of staff to FCC Chair Reed Hundt. Previously, Mr. Levin practiced law in North Carolina, where he represented new communications ventures as well as local governments. He is a graduate of Yale College and Yale Law School.



Chris Lewis

Christopher Lewis is Vice President for Government Affairs and leads Public Knowledge's advocacy on Capitol Hill and other government agencies. Prior to joining Public Knowledge in 2012, Chris served at the US Federal Communications Commission (FCC) as Deputy Director of the Office of Legislative Affairs and advised the FCC Chairman on legislative and political strategy. He is a former US Senate staffer for the late Sen. Edward M. Kennedy and has over a decade of organizing and campaign experience including work as the North Carolina field director for Barack Obama's 2008 presidential campaign. Chris graduated from Harvard University with a Bachelor's degree in government. He lives in Alexandria, VA where he loves working on local civic issues and is elected to the Alexandria City Public School Board.



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Deepak Maheshwari

Deepak Maheshwari is director of government affairs for Symantec across India and ASEAN region. A public policy and regulatory affairs professional, he has a keen interest in the interplay of technological innovation with socio-economic development. An oft-invited speaker, author and columnist, he has played a pivotal role in evolution and development of Internet policy and digital ecosystem as an industry spokesperson and thought leader. He served two consecutive terms as elected secretary of ISP Association of India (ISPAI) and co-founded the National Internet eXchange of India (NIXI). He is a charter member of IEEE Experts in Technology and chairs the BSA Asia-Pacific Policy Committee. An engineering graduate from Indian Institute of Technology as well as a law graduate, he has previously worked with Microsoft, MasterCard, HCL and Sify.



Skander Mansouri

Skander is a business developer at Vynd, a local startup aiming to contribute in the improvement of services provided by companies and local businesses while highlighting the voice of the customer.

Skander is currently the co-director of Young Tunisian Coders Academy, an NGO that aims to raise generations who will lead the technological revolution in the world by teaching programming skills to children in Tunisia. He is also working currently as the partnership manager on the TAWASOL project, part of the IEEE Special Interest Group on Humanitarian Technology (SIGHT) activities in Tunisia.



Susan Maravetz

Susan Maravetz is the Director of Business Development for International Connector. Over the past 25 years, Susan has enjoyed a wide variety of creative, entrepreneurial, and corporate roles within the technology, consulting, and personal development space, including sales and marketing positions at Global Payments, MobileSmith, and IBM. Susan has led executive leadership teams through teambuilding and executive coaching programs, as well as guided small business owners through their launch and business development efforts.

Susan's responsibilities at International Connector include identifying opportunities to facilitate and amplify the voice of the emerging generations (millennials and Gen Zs) on a global basis, as organizations and business realize the quickly shifting landscape of workplace, technology, and product. International Connector creates virtual think tanks with their team of Millennial Catalysts, bringing a unique global perspective and influx of creative and innovative ideas.



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Andres Maz

Andres is Executive Director of Public Policy in Cisco's Global Policy group, where he leads Cisco's digitization policy strategy and global policy initiatives. Andres plays a vital role in crafting Cisco's policy vision and strategy and he is also member of Cisco's Latin America Senior Leadership Team and a company's spokesperson.

Andres is a recognized global business leader in the ICT space with an outstanding business development record, promoting innovation, creating high-performance teams, and building strong relationships with business and government leaders.

Andres has strong track record in P&L management, international business, risk management, corporate finance, M&A, and strategy. Over his career, he has worked in the U.S, Asia-Pacific, Eastern Europe, and Latin America. Andres frequently speaks at industry forums and media on technology policy and innovation.

Andres previously worked for Verizon Business and MCI where he focused on corporate and regulatory strategy, and M&A. Andres holds a B.A. in Economics, an M.A. in Telecommunications, and an MBA from Columbia and London Business School. He is fluent Spanish and English and is continuing to improve his Portuguese.



Yasmina McCarty

Yasmina is the Head of Mobile for Development at the GSMA, leading the company's efforts to leverage the power of mobile to deliver socioeconomic improvements for the underserved. Under her leadership, Mobile for Development runs eight large scale initiatives in Africa, Asia, and LAC, making significant gains in connectivity, mobile money, identity solutions, life enhancing innovations, nutritional outcomes for children, energy, water, and sanitation solutions for off-grid households, agricultural productivity for smallholder farmers, and reducing the gender gap in mobile.

She joined the GSMA in 2010, and during her tenure has held various roles including commercial director of Mobile Money, interim head of M4D Impact and M4D head of operations and development. Prior to the GSMA, she started and ran GreenMango, a social enterprise in India, during which time she was recognized as a TED India Fellow, Echoing Green Fellow, and Cartier Women's Initiative Asia Laureate. Yasmina also spent five years in microfinance at Women's World Banking and ACCION USA, developing customer insights and financial products for low-income clients in emerging markets. Yasmina holds an MBA from London Business School and Columbia Business School, and a BS *cum laude* from Northwestern University.



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Peter Micek

Peter Micek is Global Policy & Legal Counsel at Access Now and a lecturer at the Columbia University School of International and Public Affairs. Peter leads the Access Now policy team's business and human rights work, advocating for a more rights-respecting telecom and tech sector. Through direct corporate engagement, norm-building at the United Nations, and investor advocacy, Peter helps Access Now to promote transparency and accountability for digital rights online. As a lecturer at Columbia on internet policy and governance, Peter's course focuses on the structures and processes that determine communications policy in the digital age. Peter also sits on the World Economic Forum's Global Future Council on Cybersecurity. A lawyer by training, Peter completed a JD *cum laude* at the University of San Francisco School of Law, and in 2010 published "A Genealogy of Home Visits," critiquing surveillance of at-risk communities, in *USF Law Review*. He lives in Brooklyn and has no cats.



Paul Mitchell

Paul Mitchell is Senior Director, Technology Policy at Microsoft Corporation. Mr. Mitchell assumed his current role in July 2011. He is responsible for policy initiatives in the areas of spectrum, telecomm, and internet governance. He has championed Microsoft's efforts to advance flexible spectrum regulations allowing for dynamic sharing and developing innovative access networks leveraging television white spaces around the world.

Prior to his current position Mr. Mitchell held a variety of senior positions with Microsoft's Entertainment and Devices division. His career also includes significant work related to digital and interactive television, including work developing standards for digital television in advance of the US DTV transition. He held several roles in the Microsoft TV division, including chief of staff and general manager of the Tools and Applications product unit.

Mitchell serves on the ITU/UNESCO Broadband Commission for Sustainable Development, on the board of the United States Telecommunications Training Institute, and on the advisory board for the Evans School of Public Policy and Governance at the University of Washington. He has previously served on the board of directors of BET.com, the Alliance for Telecommunications Industry Solutions, and Vision TV and SVOX in Canada. He holds an MPA from the Evans School at the University of Washington.



Dorrn Mottes

Dorrn is the CEO of nFrnds, which works to connect the unconnected today. The nFrnds software platform provides cloud-based cutting-edge business and financial solutions that are accessible and affordable to the 400 million MSMEs and



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4 billion individuals who lack the resources to access the internet, enabling them to use any mobile device and leapfrog directly into the cloud.

Dorron brings with him over 25 years of experience in executive-level management positions. He has managed and lead new initiatives from inception to implementation and significant sales, working with international mobile operators, global multi-national and startup companies. Dorron has developed and implemented strategies, markets, partnerships, business models, and new technology systems and services, making strategic partnerships and working with companies such as Microsoft, Google, IBM, Amdocs, Comverse, Telefonica, MTN, and Airtel. He founded several startups; one of them Osmio, a New York-based company, was acquired by a strategic partner.



Catherine A. Novelli

Catherine A. Novelli was sworn in as Under Secretary of State for Economic Growth, Energy, and the Environment on February 18, 2014. In this capacity, she leads the US State Department's efforts to develop and implement economic growth, energy, oceans, environmental, and science and technology policies to promote economic prosperity and address global challenges in a transparent, rules-based, and sustainable system. She is also the State Department's senior coordinator for international information technology diplomacy.

Prior to assuming her current duties, she was Vice President, Worldwide Government Affairs at Apple, Inc. In that role, Ms. Novelli headed a multinational international team responsible for Apple's federal, international, and state and local government relations and public policy.

Formerly Assistant US Trade Representative for Europe & the Mediterranean, Ms. Novelli coordinated US trade and investment policy for over 65 countries of Western Europe, Central Europe, Russia, the NIS, the Middle East, and Northern Africa. As the point person for the \$1 trillion economic relationship between the United States and Europe, Ms. Novelli led efforts to ensure access to the European market for US manufactured and agricultural products.

Ms. Novelli is a graduate of Tufts University, and she holds a law degree from the University of Michigan and a Master of Laws from University of London (with concentrations in international and comparative law at the London School of Economics and School of Oriental and Asian Studies).



Amber Nystrom

Amber is among the foremost global pioneers in impact investing and social enterprise innovation ecosystems, and is a master facilitator of global systems change. As the CEO of the Dokia Institute, Amber oversees globally the integration of ESG and impact resilience into major global infrastructure projects and investments in support of the UN's Sustainable Development Goals, and she deploys capital into investments in 10X game-changing innovations for humanity and the planet. She is also leading an audacious initiative galvanizing the Triple Revolution rise of women, millennials, and the \$60 trillion wealth transfer they will



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receive, catapulting capitalism into sustainability and ensuring women and millennials lead the forefront of this evolution.

Amber is a highly trusted strategic impact advisor to HNW and UHNW private families and women and millennials, and to top global finance firms with a total of over \$13tn in AUM. As a lifelong master facilitator, Amber has lead over 1,000 high-level, multi-stakeholder solutions sessions across every continent, serving global Fortune 100 and 500 companies, top global social and economic development organizations, policy leaders, and leading academic institutions in aligning markets and meaningful transformation.

Prior executive positions included serving as a principal in Tendris, founder and president of Social Fusion, and the director of social entrepreneurship incubation at the Women's Technology Cluster (now Astia). She studied at the University of Washington's joint MPA and Master's in international development program, and she has won numerous academic and other awards.



Funke Opeke

Funke Opeke is founder and CEO of Main One. Main One is a telecommunications solutions provider that built West Africa's first privately owned submarine cable system interconnecting Lagos, Nigeria; Accra, Ghana; and Seixal, Portugal in 2010. Main One has grown to become the leading provider of wholesale and enterprise connectivity and data center services across the region, and the company has played a major role in changing West Africa's Internet landscape. The company continues to grow its footprint with investments in regional points of presence and services covering eight countries in West Africa. Main One is also building out terrestrial fiber networks as the fiber infrastructure company for Lagos, the commercial nerve center of Nigeria where it also built West Africa's largest commercial Tier III data center, commissioned in January 2015.



Chelsea Palmer

Chelsea Palmer is the Acting Executive Director of the Human Data Commons Foundation in Vancouver, BC, Canada. The HDC Foundation aims to instill data collection practices with integrity and respect for user consent and agency. Chelsea utilizes an academic background in contemporary critical theory to analyze the complex power relations of the information age, as well as to assess and recommend best practices within the technology field. This work is centered in a holistic community-development paradigm, prioritizing collective wellbeing and solidarity with issues in the Global South.

Chelsea is active in the blockchain and decentralized technology community, with an interest in new models of fair and transparent governance. She also writes, performs, and produces educational rap videos as msGNU, presenting concepts from computer science and social theory in an accessible and amusing format.



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Michelle Pampin

Michelle Pampin has 20 years of wireless and networking experience primarily focused on wireless backhaul, leading global marketing teams and driving channel strategy. She is currently COO of WireTheWorld, a startup focused on enabling low-cost broadband in emerging countries. She has led and participated in wireless network projects globally. She has held executive roles at several wireless and networking tech companies, including Cambium Networks, Symmetricom (now Microsemi) Alvarion, JDSU, and Harris Corporation's microwave division. Michelle holds a bachelor's degree from McGill University in

Montreal, Canada, and a master's degree from Golden Gate University in San Francisco.



Deepa Prahalad

Deepa Prahalad is an author and innovation/design strategy consultant with an emphasis on emerging markets and social innovation. She has worked with startups and large multinationals, and she researched and co-authored the book *Predictable Magic: Unleash The Power of Design Strategy to Transform Your Business*, which was selected by Fast Company as one of the "Best Design Books of the Year." She is also a frequent blogger for *The Huffington Post*, *Harvard Business Review*, and other magazines.

Deepa has a BA in economics and political science from the University of Michigan and an MBA from the Tuck School of Business at Dartmouth. She also mentors social entrepreneurs and serves on the advisory boards of the Global Peter Drucker Forum and Arogya World, among others. She is an elected member of the International Academy of Management and the Center for Digital Transformation at University of California (Irvine) and was ranked #34 on the inaugural Thinkers 50 India list.



Mahabir Pun

Mahabir Pun is a Nepalese teacher, social entrepreneur, and activist known for his extensive work as a team leader for the Nepal Wireless Networking Project, which applies wireless technologies to develop remote areas of the Himalayas. His fields of interest include helping to start income-generating programs and micro-enterprises in villages in order to create local economy and local jobs for people in rural areas, and helping young people to become innovative and creative.

He is a widely known figure in Nepal, and his work has been recognized by the Ashoka Foundation, the Ramon Magsaysay Foundation, the University of Nebraska, the World Bank, Global Ideas Bank, and the Nepalese government. Mahabir was inducted into Internet Hall of Fame in Hong Kong in 2014.



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Mahabir has a Master's degree in educational administration and a Bachelor's degree in science from University of Nebraska, USA, as well as an Intermediate in science from Amrit Science College (Tribhuvan University), Kathmandu, Nepal.



Chris Rezendes

Chris Rezendes is Founder & CEO of INEX Advisors, INEX IoT Impact LABS & IoT Capital Partners. INEX Advisors serves Fortune 5000 enterprise, industrial, and technology companies seeking to enhance existing businesses and develop new business models through the deployment of Internet-of-Things (IoT) solutions. Impact LABS is an IoT commercialization accelerator that live-pilots early-stage IoT solutions in the field with small and mid-sized businesses. IoT Capital Partners is an IoT-dedicated early-stage investment vehicle under construction with experienced early-stage tech investor Roger Krakoff, with positions in 15 early-stage IoT companies, over half of which have revenue generating product in market.

Chris is also the co-organizer of the monthly IoT Meetup Boston/New England and helped launch the Security of Things Meetup. Chris is a board advisor at IoT Consortium; advisor at IoT M2M Council; and advisor, board advisor or board director for numerous early stage IoT companies. Chris speaks often at local, regional, national, and global events focused on IoT, innovation, and impact investing.

Chris has 25 years of experience in real-time, mission-critical, embedded, and wireless markets as an analyst, advisor, general manager, and now entrepreneur and investor. He grew up Fall River, MA, the grandson of sweepers and one of the first female floor bosses in the region's textile industry; graduated from Harvard University; and has worked with national security, infrastructure, and industrial communities on technology issues and opportunities since 1991.



Nilmini Gunaratne Rubin

Nilmini Gunaratne Rubin is the Vice President for International Development at Tetra Tech, where she leads policy and engineering services for infrastructure projects in developing countries.

Until recently, Nilmini served as the senior advisor for global economic competitiveness at the US House Foreign Affairs Committee, where she directed technology, trade, finance, and energy policy. On behalf of Chairman Royce, Nilmini spearheaded passage by the US House of Representatives of legislation to promote internet access in developing countries. Prior to this position, she advocated on cybersecurity, cloud, and privacy policy for the Information Technology Industry Council.

For eight years, Nilmini led international economic, development, and transparency policy at the US Senate Foreign Relations Committee. She drove the passage of a law that requires oil, gas, and mining companies listed on US stock exchanges to reveal trillions of dollars paid to governments that has been since adopted by the European Union and is being considered by many other jurisdictions.



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She also worked previously. She previously worked on major agreements as a director at the National Security Council at the US White House and on international economic policy at the US Treasury Department and the Federal Reserve Bank of New York.

She was named a 2016 Young Global Leader by the World Economic Forum, a “40 Under 40” Leader in International Development by Devex, and is a member of the Council on Foreign Relations.



Holly Ruxin

Holly Ruxin built her career in the global financial system investing client assets at some of Wall Street’s most powerful firms. After decades of service and witnessing the misalignment of values that led to the financial crisis, Holly founded an innovative platform that blends expert investing with new economy sustainability and independent vision.

Holly is the CEO of Montcalm TCR, a San Francisco-based wealth management and capital markets trading firm. Montcalm serves as a guiding force for developing better relationships with money and investing within a new global socio-economic model that supports the values, needs, and goals of investors in the short and long-term.

Holly leads the firm as CEO and Chief Investment Officer based on the values of integrity, collaboration, engagement, and client sustainability. She oversees portfolio asset allocation including internally managed equities, options, domestic and global fixed income, and externally managed alternative investments.

For over 20 years, Holly has managed client assets and led private client teams at Morgan Stanley, Montgomery Securities and Bank of America, and she began her investment career at Goldman Sachs in fixed income derivatives. She has an MBA in Finance from Columbia University and a BA in Economics from the University of Michigan.



John Ryan

John has founded and run multiple Silicon Valley tech companies. For over a decade he led Ryan Hankin Kent, a telecom consulting firm he founded with two colleagues. RHK was renowned for technically-derived and precise insights in strategy. He co-founded Pixel Qi Corp., which pioneered fabless display development. John is currently working on expanding internet access through a new venture, WireTheWorld, and on rethinking the business models for universal global internet access, with the People-Centered Internet project. He has a PhD in

Physics from Imperial College, London.



Camilo Salomon

Camilo Salomon is an investment banker with more than 25 years of experience providing project finance services to infrastructure projects in Latin America and the



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Caribbean. His career achievements span across most asset classes within infrastructure, including: transportation and logistics, telecommunications, utilities, energy, oil and gas, mining, and construction.

Prior to co-funding Global Infrastructure Advisors, Camilo was managing director at INTL FCStone Securities (“INTL”). Within INTL, Camilo quickly established key differentiators within his business unit by designing and implementing long-term capital structures for infrastructure projects.

By integrating interdisciplinary tools such as selection of stakeholders, risk management programs, credit enhancement tools, and engineering of financial guarantees he was able to consistently deliver investment opportunities with the growth potential typical of emerging markets without the commensurate risk.

Formerly, Camilo served as managing director at Cabrera Capital Markets and Finance Investments, president and CEO at Safire Aircraft Company, VP for Latin America at Meridian Finance Group, managing partner at Salomon Consulting, and consultant at John Snow, Inc.

Camilo has a BS in business administration with a major in finance from the Universidad de los Andes in Bogota, Colombia.

Bonnie Sakallaris

Bonnie Sakallaris, PhD, RN, is Samueli Institute's Vice President for Optimal Healing Environments. She has served as an educator, clinical specialist, and division director. She has experience as a chief nursing officer and as a clinical consultant for APACHE Medical Systems.

Ms. Sakallaris has published extensively and presented nationally and internationally on clinical topics related to critical care, cardiovascular care and trauma resuscitation, outcomes management, data analysis, and professional mentoring. She received undergraduate degrees from Northeastern University and Boston University and holds a graduate degree in nursing from the Catholic University of America and her PhD from George Mason University.



Ahmed Selmi

Ahmed Selmi is an engineering student at the National Engineering School of Tunis. Ahmed became an IEEE student member during his first year of engineering school and was later appointed communication officer. He has been part of numerous initiatives to promote STEM education and getting Tunisians interested in new technologies with conferences and events such as high-performance computing, cloud computing, and big data.

Coming from an underserved community, Ahmed is pleased to be able to help people as an insider by providing alternative education to those who cannot afford it. He is also a trainer in communication and computer science, and serves as a founding member and the treasurer of the Tunisia Section of the IEEE Special Interest Group on Humanitarian Technologies (SIGHT).



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Daniel A. Sepulveda

Ambassador Daniel A. Sepulveda serves as Deputy Assistant Secretary of State and US Coordinator for International Communications and Information Policy in the US State Department's Bureau of Economic and Business Affairs. In this role, Sepulveda leads and coordinates the department's positions on communications and information policy issues.

Prior to joining the US State Department in 2013, Sepulveda served as a senior advisor to Senator William Cowan. From 2009 to 2012, he served as a senior advisor and member of Senator John Kerry's senior management team, handling the senator's extensive commerce, trade, and business portfolio, including his work as chairman of the Commerce Subcommittee on Communications, Technology, and the Internet.

Sepulveda served as an assistant US trade representative, leading a team that managed relations with Congress for US Trade Representative Ron Kirk from 2008-2009. He managed trade, immigration, interstate commerce, labor, and ethics and lobbying reform issues for Senator Barack Obama from 2004-2008, and helped advise his campaign for president. Before that, Sepulveda worked for Senator Barbara Boxer.



Ritu Sharma

Ritu Sharma is a social entrepreneur and NGO executive with a passion for digital inclusion as a force for change. As Executive Director of SDG Nexus, Ms. Sharma leads the efforts of SDG Nexus and Social Media for Nonprofits (SM4NP). Her current focus is building digital employment and entrepreneurship initiatives for the last-mile populations, specifically women in the global south. She serves on several boards and commissions that further economic empowerment through digital empowerment and civic engagement. She is a member of the technology partner network for Bill & Melinda Gates Foundation, an external advisor to Mercy Corps, a member of the board of directors at Palo Alto Art Center Foundation, and a senior advisor to CitizenInsights and Cliff Technologies Pvt. Ltd.



Megan Smith

In September 2014, President Obama named Megan Smith the US Chief Technology Officer (CTO) in the Office of Science and Technology Policy. In this role, she serves as an Assistant to the President. As US CTO, Smith focuses on how technology policy, data, and innovation can advance the future of our nation.

Megan Smith is an award-winning entrepreneur, engineer, and tech evangelist. She most recently served as a vice president at Google, first leading new business development and later serving as a VP in the leadership team at Google[x], where she co-created the company's "SolveForX" innovation community project as well as its "WomenTechmakers" tech-diversity initiative. During her tenure she led the company's acquisitions of



major platforms such as Google Earth, Google Maps, and Picasa, and also served as GM of Google.org during its engineering transition, adding Google Crisis Response, Google for Nonprofits, and Earth Outreach/Engine.

Megan previously served as CEO of PlanetOut, helped design early smartphone technologies at General Magic, and worked on multimedia products at Apple Japan.

Megan has served on the boards of MIT, MIT Media Lab, MIT Technology Review, and Vital Voices; as a member of the USAID Advisory Committee on Voluntary Foreign Aid; and as an advisor to the Joan Ganz Cooney Center and the Malala Fund, which she co-founded. She holds Bachelor's and Master's degrees in mechanical engineering from MIT.



Kara Sprague

Kara Sprague is a Partner with McKinsey's Business Technology Office, based in San Francisco. She is a leader in McKinsey's software and services and IT infrastructure practices. She works with enterprise and consumer technology providers and brings substantial experience in corporate strategy, business-building, go-to-market, and pricing.

Ms. Sprague is a co-author of *Grow Fast or Die Slow*, a series of articles focused on growth in the software segment. She is also a co-author of *Offline and Falling Behind: Barriers to Internet Adoption*, a report published by McKinsey's high tech, media, and telecom practice. In addition, she has authored several articles that have been featured in the *McKinsey Quarterly*, *Recall*, and the *Financial Times*.

Prior to joining the firm in 2004, Ms. Sprague was a member of the technical staff at Oracle Corporation and held several positions in software, firmware, and hardware engineering at Hewlett Packard and Agilent Technologies. She has three degrees from MIT: Bachelor of Science in electrical engineering and computer science, Master of Engineering in electrical engineering and computer science, and Master of Science in technology and public policy.



Jim Sterne

Jim Sterne is an international consultant on electronic marketing and customer interaction. Sterne has focused his 30 years in sales and marketing on measuring the value of the internet as a medium for creating and strengthening customer relationships. He has written 10 books on internet advertising, marketing, and customer service, including *Social Media Metrics: How to Measure and Optimize Your Marketing Investment* and his latest, *The Devil's Data Dictionary*. Sterne has produced the eMetrics Summits since 2002 and is the co-founder and current board chair of the Digital Analytics Association. Sterne was named one of the 50 most influential people in digital marketing by *Revolution*, the United Kingdom's premier interactive marketing magazine, and is a member of the organizing committee of the People Centered Internet.



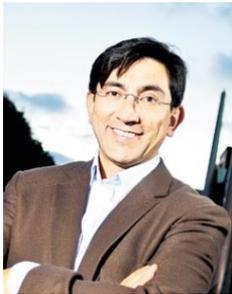
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Suhas Subramanyam

Suhas Subramanyam is a Policy Advisor and the Special Assistant for Technology Policy at the White House Office of Science and Technology Policy. In this role, he serves as a key advisor to the US Chief Technology Officer on policy issues related to Internet access, cybersecurity, AI, and the Internet of Things. Prior to joining the Obama Administration, he worked on a range of technology issues at two major international law firms and for the US Senate Judiciary Committee. He has also served as a legislative aide in the US House of Representatives.



Diego Molano Vega

Diego Molano Vega is an international consultant on the digital transformation of companies and governments. He was the minister of information and communication technologies (ICT) of Colombia from 2010 to 2015. He transformed his country with his policy plan “Vive Digital,” which aims to reduce poverty and create jobs through the use of technology.

During his tenure, Colombia expanded all the elements of the digital ecosystem, not only infrastructure, but also, services, applications, and users. Internet coverage extended to low-income homes and rural areas. 4G-LTE, fiber optics and high-speed networks expanded to all municipalities, even those in the middle of the Amazon jungle. Every rural community with more than 100 inhabitants has an internet community center. Education, health, and government services were transformed with ICT, increasing their availability, reach, and efficiency.

Mr. Molano has had a long career in the technology industry, including high-level executive positions in multinational companies such as BellSouth (now AT&T) in the US and Telefonica in Spain. He is currently advisor to the Inter-American Development Bank in Washington DC and Senior Advisor to McKinsey & Co.

Mr. Molano is an electronics engineer and economist from the Xavier University in Colombia and holds an MBA from IMD in Switzerland.



Mary Ward-Callan

Mary Ward-Callan is Managing Director for IEEE Technical Activities, responsible for the strategic and operational leadership of the technical communities within the IEEE. The 47 Technical Societies and Councils, and numerous emerging technical communities collectively deliver more than 1600 conferences, 183 periodicals, countless technical training seminars, and three certification programs. Mary led the Award winning IEEE Humanitarian Technology Challenge; a project that used solid engineering techniques to provide solutions to pressing world problems such as lighting Haiti/Africa/Nicaragua, providing data communications to healthcare facilities



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in Peru, and providing RFID patient identification in India.

Prior to joining the IEEE, Mary was an Executive Director in the telecommunications industry, employed by Telcordia, Bellcore, and Bell Labs. She has extensive experience in business management, process re-engineering, requirements management, quality, and project management.

Mary is a Certified Association Executive, holds a Bachelor of Arts degree in mathematics from Vassar College (with honors, Phi Beta Kappa), and a Master of Science degree in electrical engineering and computing from Princeton University. Mary is a Senior Member of the IEEE and a member of ASAE. She is married with three children and lives in New Jersey, USA.



Eric White

Eric White leads the World Economic Forum's Internet for All project, which facilitates the development of new models of on-the-ground public private collaboration to connect the four billion people currently not on the internet. It also provides a high-level physical and digital platform to promote global coordination on internet inclusion. Prior to joining the Forum, Eric was a consultant on internet inclusion activities. His work focused on national broadband plan development, reforming universal service funds, and evaluating new technologies, and was done largely through USAID's Global Broadband and Innovations program. He has also worked at the World Bank and served for four years as a US naval officer. He holds degrees from the University of Virginia and the Harvard Kennedy School.



Christopher S. Yoo

Christopher S. Yoo is the John H. Chestnut Professor of Law, Communication, and Computer & Information Science and the Founding Director of the Center for Technology, Innovation and Competition at the University of Pennsylvania. His research focuses on the insights that the principles of network engineering and imperfect competition provide into the regulation of the Internet and intellectual property. His major research initiatives include a study of innovative approaches to connecting more of the world's citizens to the internet; an exploration of the legal aspects of providing privacy and security for autonomous vehicles and medical devices; and a comparison of competition law in China, Europe, and the United States.

Before entering the academy, Professor Yoo clerked for Justice Anthony M. Kennedy of the US Supreme Court and Judge A. Raymond Randolph of the US Court of Appeals for the DC Circuit. He also practiced law with Hogan & Hartson (then Hogan Lovells) under the supervision of John G. Roberts, Jr (the current Chief Justice of the US Supreme Court). He also served as a professor at the Vanderbilt Law School, where he led the technology and entertainment law program. He is a graduate of Harvard College, the Anderson School at UCLA, and the Northwestern University School of Law. The author of four books and more than 70 articles and book chapters, Professor Yoo testifies frequently before US and foreign governmental and regulatory authorities.



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