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2020

**GLOBAL  
TECHNOLOGY  
SUMMIT**

CARNEGIE INDIA





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## Welcome Note

A very warm welcome to the Global Technology Summit 2020!

This year, unlike any other, we are pleased to welcome participants, partners, and audiences from around the world. GTS 2020 will host speakers from countries like Togo, Nigeria, Australia, Japan, the United States, India, Israel, Austria, Slovakia, and Estonia, to name a few. We have a spectacular set of speakers, tech czars, senior government ministers and officials, civil society representatives, and many others who have given their time to debate the Geopolitics of Technology, the overriding theme of GTS 2020.

Our five comprehensive sub-themes—the Geopolitics of Technology on day 1; Data: Linking the World on day 2; Digital Payments: The Future of Global Financial Highways on day 3; Digital Inclusion: Taking the Local to the Global on day 4; and Transforming Healthcare for a Post-COVID World on day 5—seek to encapsulate the critical discussions we hope to bring to you on each day of the summit.

This is the fifth GTS, and it is the largest one yet. It is co-hosted and supported by the Ministry of External Affairs, Government of India.

The need for this summit is underscored by the critical juncture India lies at. It is one of the largest open-data markets in the world. More data is consumed per individual in India than in any other open-data market<sup>1</sup>. In the following year, there is a very good chance that India will have a new Personal Data Protection Law and a new Data Protection Authority that will regulate the use of personal data. In sum, by the end of 2021, India will have a new legislative framework for its digital future. This framework will shape the way India approaches emerging technologies like artificial intelligence and block chain. It will also potentially inform the way in which India chooses to position herself internationally—whether as a non-permanent member of the United Nations Security Council, a position India will take-up in January 2021, or as the Chair of the G20 in 2022.

In a very short period, India will need to develop and articulate its own digital identity and persona. The pandemic has made clear that the terms upon which globalization has been architected need to change. Self-sufficiency has become a creed for countries across the world, as has the need for a reformed system of global exchange. The quest for most countries, in this time of change, is to find the right balance between local needs and international interests.

This includes the universe of technology. That technology has the power to connect is obvious. From the use of the internet to telecommunications, technology bridges divisions and physical borders. Yet, technology can also be used to divide the world. The approach taken by different countries—to technology and technological standards—tends to set new terms in international affairs, thereby altering geopolitics itself. What exactly these terms are is the moot question at the GTS 2020.

After all, the use and access to data, the trajectory of emerging technologies, the need to more rigorously think about standards in digital currencies and payments, and the serious need to better consider the fortunes of the next half billion, are matters of both national and international importance. At GTS 2020, we look forward to understanding these matters through several elevating conversations, workshops, panels discussions, and special addresses.

Any discussion, in today's world, is incomplete without drawing attention to the need to cooperate and advance technology to solve the problems of a post-pandemic world. The last day of the summit exclusively looks at adapting healthcare to suit the needs of a post-pandemic world, a stage that continues to come. At the heart of all these ideas, lies a desire to better the lives of people across the world. At GTS, we ask how technologies, regulatory architectures, healthcare, and international competition and cooperation can help achieve a more inclusive world.

We hope that you will log into as many sessions during the five days of the GTS. Our custom-built virtual platform has been designed to immerse you into five days of dialogue, debate, and arguments on different aspects of technology. To learn more about us, our work, our research interests, and people, please stay connected on Facebook



and Twitter @CarnegieIndia; receive updates about the summit through #GlobalTechSummit; or write to us at CarnegieIndia@ceip.org. We hope that you will engage in discussions, and ask the tough, and at times, impossible questions, at a forum which is really your space for the five days of the summit and beyond.

Warmly,  
The Carnegie India Team

## Agenda

### Day 1: December 14, 2020

#### 15:30:17:00: Knowledge Transfer Workshops

- **'Decoupling' and its Effects**

*Geopolitical relationships between countries have begun to impact their technological relations as well. Whether it comes in the form of app bans, removal from supply chains or bans on infrastructural hardware, countries like the United States, the United Kingdom and India have begun to 'decouple' themselves from China. This session aims to assess the potential economic and geopolitical ramifications of such maneuverings as well as the impact it will have on the technology sector in India.*

**Facilitators:** Sahil Kini, Co-founder & Chief Executive Officer, Setu  
Matt Sheehan, Fellow, Macropolo

- **Future of Open-source Architectures**

*In recent years, free and open source software and hardware has gathered increasing interest, both from the business and academic community. As the spread continues, many businesses are implementing this type of code in one way or another in attempts to enable faster implementation and more functionality. However, despite its inherent transparency, using open source software carries its own risk. This session will explore the architecture behind open-source development, open-source business models, and potential regulations.*

**Facilitators:** Michael Nelson, Director, Technology and International Affairs Program, Carnegie Endowment for International Peace  
David Eaves, Lecturer in Public Policy, Harvard Kennedy School  
Deborah Bryant, Senior Director, Open Source Program Office, Office of the CTO at Red Hat  
Alistair Croll, Co-founder, Coradiant

- **Fintech and Cybersecurity: Opportunities and Challenges**

*As the Fintech sector grows so does the need for up-to-date cybersecurity. It is paramount for these businesses to garner consumer trust in the safety and security of digital financial systems. One of the most common points of failure is the process of integrating these disparate digital financial systems. Experts agree that the sector needs a mutually understood and widely accepted base level of cybersecurity controls. This workshop will explore the various cybersecurity challenges the sector faces while also assessing potential opportunities to address them.*

**Facilitators:** Rajesh Bansal, Senior Advisor, Technology & Society Program, Carnegie India  
Tim Maurer, Co-director, Cyber Policy Initiative & Senior Fellow, Technology and International Affairs Program, Carnegie Endowment for International Peace

- **Vaccine Research: The Road Ahead**

*Vaccine development is a long and complex process which often takes many years of work by both public and private researchers. The current system for developing, testing and regulating vaccines was forced to accelerate in light of the coronavirus pandemic. Once the vaccine has been developed, the next big challenge is to ensure an*



*adequate supply and proper deployment of the vaccine to the highest risk groups. This workshop will assess the changes in the vaccine development process as well as the challenges of proper deployment.*

**Facilitator:** Gagandeep Kang, Professor, Department of Gastrointestinal Sciences, Christian Medical College & Former Executive Director, Translational Health Science and Technology Institute, Department of Biotechnology, Government of India

- **Future of Personal and Non-personal Data**

*As work continues on the India's Personal Data Protection Bill, the Indian government has taken the unprecedented step of attempting to regulate the use of Non-Personal Data. As one of the largest open data banks in the world, the direction India goes will have a significant impact on the global data market. This workshop, therefore, intends to cover the basic features of the proposed regulations, the potential conflicts between the regulation of both kinds of data, and the implications of the regulation of this space.*

**Facilitators:** Anirudh Burman, Associate Fellow, Carnegie India  
Tarunima Prabhakar, Nonresident Scholar, Carnegie India



## PUBLIC SESSIONS

**Day 1: December 14, 2020**

**Sub-theme: *Geopolitics of Technology: Technical Gets Political***

**17:15-17:25: Welcome Remarks**

**Speaker:** Rudra Chaudhuri, Director, Carnegie India

**17:25-17:35: Inaugural Address by S. Jaishankar, External Affairs Minister, Government of India**

**17:35-18:15: Conversation: Geopolitics of Technology: Technical Gets Political**

**Speaker:** S. Jaishankar, External Affairs Minister, Government of India

William J. Burns, President, Carnegie Endowment for International Peace

**Moderator:** Rudra Chaudhuri, Director, Carnegie India

**18:20-19:00: Conversation: Global Governance of Technology: Role of Multilateral Institutions**

*Technological advances like AI, quantum computing, and robotics are transformative but also pose risks concerning ethics, privacy, security, and sovereignty. Considering the global nature of such risks, international multilateral institutions are designed to facilitate cooperation among member states. However, with countries developing a more nationalistic approach to international relations in a multipolar world, the role of such multilateral institutions is under threat. Within this changing international environment, what role can multilateral organizations play in global governance of emerging technologies? How can the private sector aid the multilateral institutions in creating strategies that balance innovation and risks emerging from technological advancements?*

**Speakers:** Fabrizio Hochschild-Drummond, Undersecretary General and Special Advisor for UN 75, United Nations

Nivruti Rai, Country Head, Intel India & Vice President Data Center Group, Intel Corporation

**Moderator:** Michael Nelson, Director, Technology and International Affairs Program, Carnegie Endowment for International Peace

**19:00-19:10: Special Address by Taranjit Singh Sandhu, Ambassador of India to the United States**

**19:15-20:15: Panel: Fostering Digital Ties: The Future of India-U.S. Relationship**

*Over the last two decades, bilateral cooperation between India and the United States has strengthened in the field of science, technology, and innovation. Despite these shared interests, the two countries still have unresolved issues around digital trade, India's data localization plans, and concerns around cross-border flows of data. With digital technologies introducing new dimensions to diplomacy, how should trade policies be modified to address new and emerging digital barriers? How can India and the United States collaborate to strengthen their digital partnership?*

**Speakers:** Renu Pall, Additional Secretary for New Emerging & Strategic Technologies, Ministry of External Affairs, Government of India

Nandini Kannan, Executive Director, Indo-U.S. Science & Technology Forum



Jay Gullish, Digital Policy Director, U.S.-India Business Council

Modan Saha, Chief Executive Officer, Tata Strategic Management Group

**Moderator:** Rudra Chaudhuri, Director, Carnegie India

**20:20-20:25: Curtain Raiser: The Future of Technology**

**Speaker:** Evan Feigenbaum, Vice President for Studies, Carnegie Endowment for International Peace

**20:30-21:20: Panel: The Future of Technology**

*Digital technologies have become sources of increasing geopolitical rivalry between countries with each vying for leadership in research, commercialization, and deployment. Concerns of national security and economic competitiveness have led to a contest between states for technological leadership. In turn, this has led to efforts to impose sovereign control over the internet. It has divided cyberspace along national borders and gated the free flow of both data and capital. Further, countries are pushing big tech for data decryption access for better law enforcement. How are these factors going to impact the activities of big tech and other technology companies? What impact will the regulations of these companies have on relations between nation states?*

**Speakers:** Cina Lawson, Minister of Digital Economy and Digital Transformation, Government of Togo

Elonnai Hickok, Nonresident Scholar, Technology and International Affairs Program, Carnegie Endowment for International Peace

Jonathan Lee, Director of Global Public Policy, WhatsApp

David Kirkpatrick, Founder and Editor-in-chief, Techonomy Media

**Moderator:** Rahul Matthan, Partner, Trilegal

**21:25-21:45: Conversation:**

**Speaker:** Julie Brill, Chief Privacy Officer, Microsoft Corp.

**Moderator:** Rahul Matthan, Partner, Trilegal

**21:45-21:50: Closing Remarks**

**22:00-23:30: Closed-door discussion on technology, data, and the future of US-India relations**

*As the next administration takes office in the United States, it is time to take stock of the ample opportunities and frictions arising from the US and India's approaches to the management of data. In India, a parliamentary committee is currently considering a legislative proposal to introduce a federal Indian privacy law. Such a law is bound to advocate the localization of certain categories of personal data, and the creation of a Data Protection Authority (DPA) to oversee and regulate the use of data. This is the right time to both sensitize key stakeholders in the United States to India's fast-emerging data architectures, and to identify key areas of friction and cooperation.*



*The closed-door round table will provide an opportunity to address three critical issues of debate between the United States and India. These include issues around localization and its real and potential effects; the extent to which both countries can agree to a common standard for accessing data (i.e. a cloud act plus); and possible contours of a negotiated bilateral data transfer agreement (such as that between the EU and Japan). The aim of the round table is to outline where both countries stand on these critical issues and is intended to begin a set of dialogues that Carnegie India and the Carnegie Endowment in Washington D.C. will host over the course of 2021, with the view to further strengthen cooperation on data issues between the U.S. and India.*

## **Day 2: December 15, 2020**

### **Sub-theme: Data: Linking the World**

#### **09:00-10:30: Closed-door discussion on Localization and Internationalization of Data: Getting the Balance Right**

*In recent years, countries around the world have continued to explore how to harness the power of data for enhancing the safety of their citizens in addition to increased economic development. The Personal Data Protection Bill, 2019 has, to some extent, put an end to the speculation surrounding India's data localization mandate. It provides for the local storage and processing of certain kinds of data, as well as the exceptions to these requirements. The reasons for localization, such as speedier data access for law enforcement, protection from foreign surveillance, promoting innovation and the growth of India's tech sector, etc., are well appreciated, but questions remain around whether these goals will actually be met. What form of data localization is best suited to meet these objectives? What does the future of international data flows look like?*

#### **17:40-17:45: Opening Remarks**

#### **17: 50-18:10: Governance of Technology**

*Most governments around the world have not been able to develop norms or standards to govern emerging technologies domestically. Even if national governments develop effective policies, harmonization of different national approaches at an international level is a bigger challenge. Further, geopolitical alliances of the future will be greatly influenced by varying levels of technological development of nations, forcing all countries, including India, to recraft their diplomatic strategies. With digital technologies introducing new dimensions to diplomacy, how can the government work with the industry to facilitate development of indigenous technologies? Can countries work together to develop norms or standards necessary for international governance of emerging technologies?*

**Speakers:** Malcolm Johnson, Deputy Secretary General, International Telecommunication Union

**Moderator:** Suyash Rai, Fellow, Carnegie India

#### **18:10-18:15: Special Address: India & Austria: Imperatives for a Digital Future**

**Speaker:** Margarete Schramböck, Minister for Digital and Economic Affairs, Republic of Austria

#### **18:20-19:15: Panel: The World We Live In**

*A global health crisis, economic slowdown, and the changing geopolitical landscape are some of the challenges that the world faces today. These crises have contested the existing political, economic, technological, and security arrangements. It has led countries to rethink their existing relationships, remodel their supply chains, and reinforce nationalistic rhetoric on economic protectionism. What policy strategies can countries develop to navigate this*



*complex environment? What differential impact will these changing circumstances have on the developed and the developing world?*

**Speakers:** Ashley J. Tellis, Tata Chair for Strategic Affairs & Senior Fellow, Carnegie Endowment for International Peace

C. Raja Mohan, Director, Institute of South Asian Studies, National University of Singapore

Vijay Gokhale, Nonresident Senior Fellow, Carnegie India & Former Foreign Secretary

**Moderator:** Tanvi Madan, Senior Fellow, Foreign Policy Program, & Director, India Project, Brookings Institution

**19:20-19:25: Curtain Raiser: Personal and Non-personal Data: India's Emerging Data Architecture**

**Speaker:** Anirudh Burman, Associate Fellow, Carnegie India

**19:30-20:20: Panel: Personal and Non-personal Data: India's Emerging Data Architecture**

*In a very short span, the Indian data regulation landscape has witnessed a series of significant events. First came the introduction of the Personal Data Protection Bill (PDP), 2019, and in July 2020, the Draft Report on the Non-personal Data Committee. The PDP bill foresees the creation of the Data Protection Authority (DPA), a regulatory body that will ensure compliance with the bill. The DPA will be integral to the proper implementation of the provisions of the bill. What are the challenges that India's Data Protection Authority and the proposed non-personal data regulatory authority should prepare for? What lessons can be drawn from other nations on the role of data regulatory authorities in safeguarding personal and non-personal data?*

**Speakers:** Melinda Claybaugh, Privacy Policy Director, Facebook

Rajeev Chandrasekhar, Member of Parliament, Rajya Sabha

Varad Pande, Partner, Omidyar Network India

Annabel Lee, Public Policy Lead for Data, APAC, Amazon Web Services

**Moderator:** Anirudh Burman, Associate Fellow, Carnegie India

**20:25-21:25: Panel: Localization and Internationalization of Data: Getting the Balance Right**

*The Indian Personal Data Protection Bill, 2019 provides for the local storage of certain kinds of personal data. The rationale behind localization is based on economic and national security grounds, as well as faster access to data for law enforcement. The bill does provide for exceptions to this requirement, either by way of a contract, or an adequacy determination by the central government. Despite the many stated reasons for localization, the benefits of allowing data to flow freely has its recognized advantages. How can countries balance cross-border data flows with innovation? Is localization an inevitable outcome across the world? What can be done to bridge the gap between universal rules and values and digital balkanization?*

**Speakers:** Rishab Bailey, Legal Consultant, National Institute of Public Finance and Policy

Katherine Charlet, Director, Data Governance, Google



Ralf Sauer, Deputy Head of Unit-International Data Flows and Protection, European Commission

Rob Sherman, Vice President and Deputy Chief Privacy Officer, Facebook

**Moderator:** Smriti Parsheera, Researcher, National Institute of Public Finance and Policy & Fellow, CyberBRICS Project

**21:30-22:00: Conversation: Regulating Digital Markets: The Road Ahead**

*In the last quarter, big tech companies have been quick in repurposing their economic and technological resources to adapt to new consumer demands. Growing interest in online shopping, greater social media activity, increased reliance on cloud services, have led to an overdependence on products and services provided by these firms. This quarter has also seen these companies face increasing scrutiny on issues such as antitrust, digital monopolies, and unfair trade practices. Recognizing the implications of such concerns on citizens and smaller businesses, some countries are developing new standards to regulate big tech. While disintegrating big tech seems the most convenient solution to these emerging concerns, can other strategies be followed to create more innovation-friendly markets in India? What market reforms can be introduced to support smaller firms in India?*

**Speakers:** R.S. Sharma, Former Chairman, Telecom Regulatory Authority of India

T. V. Mohandas Pai, Co-founder & Chairman, Aarin Capital & Chairman, Manipal Global Education

**Moderator:** Urvashi Aneja, Co-founder and Director, Tandem Research

**22:00-22:05: Closing Remarks**

**Day 3: December 16, 2020**

**Sub-theme: Digital Payments: The Future of Global Financial Highways**

**17:20-17:25: Opening Remarks**

**17:30-17:40: Special Address** by Nguyen Huy Dung, Vice Minister of Information and Communications, Government of the Socialist Republic of Vietnam

**17:45-18:15: Conversation: India's Tech Partnerships: Opportunities & Challenges**

*Within Germany, Bavaria is a major driving force for the fast-growing trade and ties between Germany and India. Bavaria-based companies have traditionally considered India as a reliable and promising economic partner. Besides encouraging German companies towards India, Bavaria is also very keen to project their State as a preferred destination for potential Indian investments. Recognizing this partnership, how can the existing Bavaria-India relationship be strengthened? What new avenues can be added to this existing partnership to foster collaboration in the fields of science and technology?*

**Speaker:** C. N. Ashwath Narayan, Deputy Chief Minister of Karnataka and Minister for Higher Education, Information Technology, Biotechnology, Science and Technology, Skill Development, Entrepreneurship, and Livelihood



Florian Herrmann, Head of the State Chancellery-Minister of State for Federal and European Affairs and the Media, Bavaria

**Moderator:** R.K. Misra, Nonresident Scholar, Carnegie India

**18:20-18:30** **Special Address** by Rahul Chhabra, Secretary (Economic Relations), Ministry of External Affairs, Government of India

**18:35-19:45:** **Panel: India's Unified Payments Interface: Ready for Global Acceptance?**

*Since its launch in 2016, the United Payments Interface (UPI) has become one of the fastest growing payment transfer interfaces in India. With over a billion transactions and more than 100 million active users on the platform, the interface has gained traction globally. As a result, the National Payments Corporation of India has set up a subsidiary for exporting UPI to international markets. Why is UPI important and how will India be benefited from global adoption of UPI? How can India shape the global financial system?*

**Speakers:** Victor Malu, Head of Future Financial Systems, Financial Sector Deepening, Kenya  
Mahendra Nerurkar, Director & Chief Executive Officer, Amazon Pay  
Abhijit Bose, Head of India, WhatsApp  
Ritesh Shukla, Chief Executive Officer, National Payments Corporation of India  
Pia Roman Tayag, Director of the Office of the United Nations Secretary-General's Special Advocate for Inclusive Finance for Development

**Moderator:** Ajay Kaushal, Director, BillDesk

**19:50-19:55:** **Curtain Raiser: Central Bank Digital Currencies: End of the Road for Cash?**

**Speaker:** Rajesh Bansal, Senior Adviser, Technology & Society Program, Carnegie India

**20:00-21:05:** **Panel: Central Bank Digital Currencies: End of the Road for Cash?**

*Retail Central Bank Digital Currencies as an alternative to physical cash is an enticing prospect for many countries; it would significantly reduce costs associated with printing money, ensure the general public has access to central bank issued currency, and could counter illegal acts such as money laundering. However, the most crucial characteristic of cash is the trust that the public has in it. Despite the potential benefits, it is not clear if CBDCs will, in fact, replace cash. In the face of this challenge, how can CBDC garner the trust that cash holds? What design elements can ensure that it is accepted widely?*

**Speakers:** Hanna Armelius, Senior Advisor, Payments Department, Analysis and Policy Division, Sveriges Riksbank  
Jonathan Dharmapalan, Chief Executive Officer, eCurrency  
Neha Narula, Director, Digital Currency Initiative, MIT Media Lab  
Scott Hendry, Senior Special Director, Financial Technology (FinTech) at Bank of Canada



**Moderator:** Rajesh Bansal, Senior Advisor, Technology & Society Program, Carnegie India

**21:10-21:15:** **Closing remarks**

**22:00-23:30:** **Closed-door discussion on Central Bank Digital Currencies and Global Interoperability Standards**

*Central banks around the world have stepped up their research and plans for CBDCs. While motivations across jurisdictions may differ, no one wants to be left behind in this race. CBDCs represent the future of money and going forward this could potentially change the cross-border payments landscape. How should central banks approach the issue of cross border payments? What is the role of international bodies and private players in setting global interoperability standards?*

**Day 4: December 17, 2020**

**Sub-theme: Digital Inclusion: Taking the Local to the Global**

**14:00 -15:30** **Round Table: Open Digital Ecosystems: The Way Forward for India**

*To address India's economic and social development needs, we need digital infrastructure that can deliver services at population scale. The Covid19 pandemic has revealed the extent of our dependence on digital infrastructure in all key areas of human activity such as finance, health, education, and social welfare. It has also revealed the limitations of the digital platforms we have today, such as issues of exclusion and compromised data privacy. The Open Digital Ecosystems (ODE) approach calls attention to both the tech and 'non-tech' dimensions of digital infrastructure. There is today, a growing understanding that technology infrastructure needs to be built in a modular, open source, and inter-operable manner. However, the ODE approach suggests that in addition to getting the tech right, having the right laws, institutions, and community engagement mechanisms in place are critical to ensure that digital platforms maximize benefits to citizens and minimize risks. How can we ensure ODEs in critical sectors like health and social protection are inclusive? Is the personal data of citizens safe in these systems? Do they have responsive grievance redressal mechanisms? Are they set up to drive innovation on top of the core digital infrastructure? In this roundtable, we will hear from key government stakeholders and advisors who are steering pioneering digital ecosystems in India, and invite discussants from academia, civil society, and private sector to engage in a stimulating conversation.*

**Speakers:** Kiran Anandampillai, Advisor at National Health Authority

Arun Sharma, Director at Direct Benefit Transfer Mission

Ajay Nair, Chief Executive Officer at Swasth Alliance

**Moderator:** Rajesh Bansal, Senior Advisor at Carnegie India

**17:15-17:20:** **Opening Remarks**

**17:25-17:35:** **Special Address** by Isa Ali Ibrahim Pantami, Minister of Communications and Digital Economy, Government of Nigeria

**17:40-18:40:** **Panel: The Future of Digital Infrastructure**

*The pandemic has led to an increased adoption of digital services for both personal and professional purposes. This digital transformation, especially in critical sectors like telecommunications, health, and finance, needs a robust*

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*digital infrastructure. While the OECD countries have a well-developed digital infrastructure to cope with an increased adoption of digital services, emerging economies in Asia and Africa still lack a reliable backbone of digital infrastructure. These gaps can further accentuate digital inequalities in various Asian and African countries. The emergence of global technologies like 5G and Internet of Things (IoT) provide avenues for closing these gaps. How can international cooperation enable development of a reliable, scalable digital infrastructure that is future ready? What role can the private sector play in building a safe and inclusive digital infrastructure?*

**Speakers:** Nivruti Rai, Country Head, Intel India & Vice President Data Center Group, Intel Corporation

Nobuhiro Endo, Chairman of the Board, NEC Corporation

Paul Fletcher, Minister for Communications, Government of Australia

**Moderator:** Laura Lucas Magnuson, Vice President for Communications and Strategy, Carnegie Endowment for International Peace and Former Communications Director, Obama Foundation

**18:45-19:45: Panel: Digital Finance: Connecting the Next Billion in India & Africa**

*India is at the forefront of digital revolution with it being the world's largest open data market and second largest internet subscriptions market. The government has been using this increasing internet penetration and digital adoption to ensure access to financial tools and services in the underserved areas. Although the number of digital transactions has increased since demonetization and more recently during the pandemic, unequal access to digital infrastructure and limited collaboration between public and private sector pose serious challenges to transforming India into a digitally empowered society. What steps can be taken to make digital financial inclusion more effective and inclusive? How can India collaborate with other nations to create inclusive societies?*

**Speakers:** Esselina Macome, Chief Executive Officer of Financial Sector Deepening Mozambique & Former Executive Director of payment systems at Central Bank of Mozambique

Shilpa Kumar, Partner, Omidyar Network India

Malavika Raghavan, Head, Future of Finance Research, Dvara Research

Sultan Meghji, Chief Executive Officer & Co-founder, Neocova & Nonresident Scholar, Cyber Policy Initiative, Carnegie Endowment for International Peace

**Moderator:** Suyash Rai, Fellow, Carnegie India

**19:50-20:00: Special Address** by Amitabh Kant, Chief Executive Officer, NITI Aayog

**20:00-20:20: Conversation: The Future of Innovation**

*The coronavirus pandemic has changed the way businesses operate and employees interact with each other. Alongwith bringing new products and services to the market, the pandemic has inspired changes in consumer behavior that has been encouraging businesses to innovate and transform themselves. While big tech has been an early mover in adapting to this technological transformation, small and medium enterprises are still grappling to re-work their business models in adjusting to this changing trend. What long-term impact will the coronavirus pandemic have on innovation and business models? How can the government work with the industry to create policies that invest in new ideas and strategies needed to support a sustainable innovation ecosystem?*



**Speakers:** Satya Nadella, Chief Executive Officer, Microsoft

**Moderator:** Penny Pritzker, Founder and Chairman of PSP Partners, Former US Secretary of Commerce, Member of board, Microsoft, & Chairman of the Board of Trustees, Carnegie Endowment for International Peace

**20:30-21:00: Conversation: Fueling India's Digital Transformation: The Role of Technology and Regulation**

*We have already gone through shifts that have seen the computing world become one global community, offering unprecedented ways of transforming businesses and societies, mirroring the new social order of the digital world. India's digital renaissance has truly democratized access and powered the society. The pandemic has further accelerated this change. Tech companies and start-ups, both global and indigenous, have played a key role in fostering an ecosystem of innovation and inclusion. It is the values of democracy, transparency, and entrepreneurialism that India upholds that have enabled companies to drive societal impact in the digital era, and these principles will continue to be important. One of the key success factors in India's legacy of constant evolution to create higher value will be its ability to formulate a regulatory framework that bolsters tech capacity and preserves the principles of democracy, strong institutions, transparency, accountability, and accessibility for everyone. These values can catapult India to a pole position as it embraces a bold, empowered, and inclusive future, emerging as an innovation hub for the world.*

**Speaker:** Ajit Mohan, Vice President and Managing Director, India, Facebook

**Moderator:** Evan Feigenbaum, Vice President for Studies, Carnegie Endowment for International Peace

**21:20-21:50: Conversation: Lessons from the Pandemic: Innovating for the Future**

*The coronavirus pandemic has changed the way businesses operate and employees interact with each other. On the one hand, the pandemic has encouraged countries to leverage technology to ensure access to health and education, promote digital inclusion, and enhance skill development. On the other, it has reinforced nationalistic rhetoric on economic protectionism which has encouraged global manufacturers to adopt technology to create resilient supply chains. To meet these objectives, it is rather important for countries to invest in R&D, develop suitable policies to support innovation, and create programs to train workforce needed for this adaptation. What innovations are needed to adapt to shifting customer needs? How can governments and private sector work together to foster innovation, and what strategies can be adopted to sustain this partnership?*

**Speaker:** Bhavish Aggarwal, Co-founder, Ola Cabs

**Moderator:** Matt Sheehan, Fellow, Macropolo

**21:55-22:00: Closing Remarks**



**Day 5: December 18, 2020**

**Sub-theme: Transforming Healthcare for a Post-COVID World**

**17:20-17:25: Opening Remarks**

**17:30-17:50: Keynote on Digital IDs: The Way Forward**

*Disruption caused by the coronavirus pandemic has highlighted the importance of electronic national identity systems to ensure rapid and easy access to government's social security schemes. While most nations have resisted the initiative to introduce digital IDs on privacy and security grounds, countries like India and Estonia have been successful in implementing it. What are the benefits and pitfalls of digital national identity schemes? How can governments balance the introduction of digital IDs amid the rising privacy and cybersecurity concerns?*

**Speaker:** Toomas Hendrik Ilves, Former President of Estonia

**17:55-18:05: Special Address by Dragan Primorac, Chair of the International Affairs Committee of the American Academy of Forensic Sciences**

**18:10-18:30: Keynote on India's Digital Health Mission**

*Prime Minister Modi recently announced the introduction of national health IDs for every Indian citizen under the newly launched Digital Health Mission. The digital health ID will store patients' personal health records that would help consolidate health data, thus ensuring its inter-operability. However, with limited digital infrastructure in the rural areas and absence of a data protection law, this initiative raises a few concerns around inclusion and privacy. How can the government balance these concerns with its ambitious plan to create a digital health infrastructure? How can digital transformation of healthcare facilitate equitable and affordable access to healthcare?*

**Speaker:** Kris Gopalakrishnan, Chairman, Axilor Ventures and Co-founder, Infosys

**18:35-19:05: Conversation: Building Health Stack for India**

*The National Health Stack, envisioned in 2018, is an attempt to harness technology to improve the efficiency, effectiveness, and transparency of healthcare delivery in India. In addition to acting as a platform to implement health insurance schemes in an automated fashion, the stack would be utilized by patients to access their medical records and by scientists for their medical research. The government however needs to assess the gaps in the public health system and the existing public insurance schemes before integrating it with digital infrastructure. How can accountability and transparency be embedded in this newly proposed stack? Can the public and private sector work together for a successful roll-out of the health stack?*

**Speakers:** Renuka Sane, Associate Professor, National Institute of Public Finance and Policy  
Priya Karnik, Volunteer for the Health Stack, iSPIRT Foundation

**Moderator:** Neeraj Jain, Country Director, PATH India

**19:10-20:10: Panel: The People Need to Know: The Challenges of Developing a COVID-19 Vaccine**

*Scientists all over the world are racing to develop a viable COVID-19 vaccine. However, experts argue that expedited rollout of an unproven, unsafe, or an ineffective vaccine will not only jeopardize global efforts for mass immunization but will also minimize people's trust in vaccines. To ensure safe and ethical development of COVID-*



*19 vaccines, some countries have suggested that it is important to maintain transparency, facilitate data sharing, develop price-control mechanisms, and introduce liabilities for companies developing vaccines. What international standards can be created to validate the safety and efficacy of potential vaccine candidates and ensure its fair and equitable distribution? What ethical guidelines can be developed to facilitate public health research whilst balancing public trust in both research and vaccines?*

**Speakers:** Adar Poonawalla, Chief Executive Officer, Serum Institute of India  
Balram Bhargava, Director General, Indian Council of Medical Research  
John N. Nkengasong, Director, Africa Centres for Disease Control and Prevention  
Soumya Swaminathan, Chief Scientist, World Health Organization

**Moderator:** Kiran Mazumdar-Shaw, Executive Chairperson, Biocon

**20:15-21:15: Panel: India & Africa: Collaborating in a Post-Pandemic World**

*Scientists, technologists, innovators, industry, and governments all over the world have been utilizing different technologies to develop cheap and effective diagnostics, introduce apps for effective contact tracing, deploy facial recognition to monitor people in quarantine, conduct scientific studies to repurpose existing drugs, and discover new drugs and vaccines to combat the spread of the coronavirus pandemic. How can this partnership amongst different stakeholders be sustained to strengthen global health security? How can India and Africa work together to leverage technology to prevent future pandemics?*

**Speakers:** K. VijayRaghavan, Principal Scientific Advisor to the Government of India  
Manu Prakash, Associate Professor of Bioengineering, Stanford University  
Simon Kay, Head of International Operations, Wellcome Trust

**Moderator:** Gagandeep Kang, Professor, Department of Gastrointestinal Sciences, Christian Medical College & Former Executive Director, Translational Health Science and Technology Institute

**21:20-21:50: Conversation: Preempting Pandemics: Preparing for the Future**

*Despite the global experience with SARS and MERS, the two epidemics caused by coronavirus, the world was unprepared for, yet another pandemic caused by a new and infectious coronavirus, the COVID-19. Although countries did not pool in their scientific resources and technical expertise to develop medical countermeasures after the first two outbreaks, the world seems to have moved fast during the recent pandemic. Will the coronavirus pandemic be a shift in the way countries approach their health priorities? What lessons can be drawn from the current pandemic to prevent future disease outbreaks?*

**Speaker:** William A Haseltine, President, ACCESS Health International

**Moderator:** Kiran Mazumdar-Shaw, Executive Chairperson, Biocon

**21:50-22:00: Concluding Remarks**

**22:00-23:30: Closed-Door Discussion on Biological Risks in India: Issues & Perspectives**

*Infectious diseases such as COVID-19, the disease caused by the novel coronavirus; Severe Acute Respiratory Syndrome (SARS); Middle East respiratory syndrome (MERS); and the diseases caused by the Ebola, Nipah, and*



*Zika viruses have exposed countries' susceptibility to naturally occurring biological threats. Even though scientists from multiple countries concluded that the virus responsible for the coronavirus pandemic shifted naturally from an animal source to a human host, the international community should not ignore the possibility of pathogens escaping accidentally from research labs and threats of deliberate manipulation to create more dangerous bioweapons. This meeting will convene stakeholders from the government and the private sector and representatives from the scientific and the academic community to discuss the different types of biological risks in India and strategies to tackle them.*

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## Speaker Biographies

### Knowledge Transfer Workshops

#### 'Decoupling' and its Effects



#### **Sahil Kini**

Co-founder and Chief Executive Officer, Setu

@sahilkini

Sahil Kini is the founder and CEO of Setu, an open Application Program Interface (API) banking platform for financial services. Setu's mission is to accelerate economic growth by making formal finance accessible to all. Previously, he was a Principal at Aspada Investment Advisors, an India focused USD 100 million early-stage investment vehicle where he led investments in financial services, small and medium enterprises enablement, and technology for underserved markets. Sahil was one of the early team members of Aadhaar. He is also an active iSPIRT volunteer working to evangelize IndiaStack, and addressing issues around financial inclusion, macroeconomic policy, and data privacy. Sahil writes regularly on these topics in national and international publications, including a print column in the Mint newspaper titled the Bharat Rough Book. His prior experience includes stints at McKinsey & Company, Titan Industries, and Ezetap. He holds a bachelor's in technology from the Indian Institute of Technology, Madras.



#### **Matt Sheehan**

Fellow, Macropolo

@mattsheehan88 @MacroPoloChina

Matt Sheehan is a fellow at the Paulson Institute's think tank, MacroPolo, where he leads work on U.S.-China technology issues, with a specialization in artificial intelligence. His research maps and quantifies the key inputs to AI ecosystems globally. Matt is the author of the book *The Transpacific Experiment: How China and California Collaborate and Compete for our Future*. From 2010-2016 Matt lived and worked in China, including as the first

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China correspondent for The World Post. In 2016 he returned to the Bay Area, working as an analyst and consultant on topics connecting China and California. In 2018, he was selected as a finalist for the Young China Watcher of the Year award. Matt's research has been cited and he has been quoted in numerous media outlets, including *The New York Times*, *The Wall Street Journal*, *The Financial Times*, *Reuters*, *The San Francisco Chronicle*, and elsewhere.

### **Future of Open-Source Architectures**



#### **Michael Nelson**

Director, Technology and International Affairs Program, Carnegie Endowment for International Peace  
**@MikeNelson**

Mike Nelson is the director of the Carnegie Endowment's Technology and International Affairs Program. Prior to joining Carnegie, he started the global public policy office for Cloudflare. Mike has also served as a principal technology policy strategist in Microsoft's Technology Policy Group and before that was a senior technology and telecommunications analyst with Bloomberg Government. In addition, Mike has been teaching at Georgetown University. Before joining the Georgetown faculty, Mike was director of internet technology and strategy at IBM. He has served as chairman of the Information, Communication, and Computing Section of the American Association for the Advancement of Science, serves as a trustee of the Institute for International Communications, and was selected to be a "Global Leader of Tomorrow" by the World Economic Forum. From 1988 to 1993, he served as a professional staff member for the Senate's Subcommittee on Science, Technology, and Space and was the lead Senate staffer for the High-Performance Computing Act. In 1993, he joined Vice President Al Gore at the White House and worked with President Bill Clinton's science adviser on issues relating to the Global Information Infrastructure.



#### **David Eaves**

Lecturer in Public Policy, Harvard Kennedy School  
**@daeaves**

David Eaves is a public policy entrepreneur and expert in Information Technology and government. He has been an adviser to the Office of the Mayor of Vancouver and has advised the Canadian government on its open data strategy.

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He then advised various governments on technology and policy issues. He was a member of the Ontario's Open Government Engagement Team in 2014–2015. In addition to working with government officials, David served as the first director of education for Code for America. David has also worked with 18F and the Presidential Innovation Fellows at the White House, providing training and support. David also advises non-profits and advocacy groups on critical negotiations. He developed and helped implement collaborative strategies for open source communities such as Drupal and Mozilla. He served as a negotiation adviser to a coalition of Canadian environmental government organizations during two years of negotiations with the Forestry Products Association of Canada (FPAC) which helped cement the ground-breaking Canadian Boreal Forest Agreement. David subsequently served as a mediator and facilitator on critical implementation committees for the agreement.



**Deborah Bryant**

Senior Director, Open Source Program Office, Office of the CTO at Red Hat  
@debbryant

Deborah Bryant is senior director, Open Source Program Office, Office of the CTO at Red Hat where she leads the company's community strategy and a global team responsible for its stewardship in open source software communities. Deborah draws her perspective from an industry-diverse background; Parallel and high-speed computing and commercialized internet and web applications in the 80s, commercial wide area networks, advanced telecommunications and data/voice convergence in the 90s, and worked squarely in the middle of the industry disruption created by open source software thereafter. She has served Oregon's executive branch as Deputy State CIO. She founded and directed the Government Open Source Conference. She serves on numerous non-profit boards. She recently accepted a third appointment as board member for Open Source Initiative (OSI).



**Alistair Croll**

Co-founder, Coradiant  
@acroll

Alistair Croll is the co-founder of Coradiant; the Year One Labs accelerator; and a variety of other startups. He has also launched and chaired some of the world's leading conferences on emerging technology, including Startupfest, Strata, Cloud Connect, FWD50, Bitnorth, and more. Alistair is the author of four books on technology and



entrepreneurship, including the best-selling *Lean Analytics*, which has been translated into eight languages and is in its tenth printing in China. He speaks internationally on topics such as data science, innovation, scaling startups, digital government, AI, and applying critical thinking to technology. A graduate of Dalhousie University, he has also been a visiting executive on data science and critical thinking at Harvard Business School.

## **Fintech and Cybersecurity: Opportunities and Challenges**



**Rajesh Bansal**  
Senior Adviser, Carnegie India  
[@rajeshbansal](#)

Rajesh Bansal is a senior adviser at Carnegie India. His research focuses on financial technologies, particularly electronic payment systems, electronic cash transfers, and digital financial services to enable inclusive development. He leads the center's technology and society program. Prior to joining Carnegie India, Rajesh served as the Asia regional director for BFA, a global consulting firm leveraging finance and technology. Previously, Rajesh was one of the key architects of IndiaStack, a digital ID-based infrastructure for a cashless service delivery platform in India. He also headed the financial inclusion unit as director of unique identification authority of India, government of India, and was instrumental in managing key relationships with the prime minister's office, ministry of finance, and Reserve Bank of India. Rajesh holds a Bachelor of Arts (with honors) in economics from Delhi University, a master's degree in economics from Madras University, and a Master of Arts in international development policy from Duke University.



**Tim Maurer**  
Co-director, Cyber Policy Initiative & Senior Fellow, Technology and International Affairs Program, Carnegie Endowment for International Peace  
[@maurertim](#)

Tim Maurer is director of the Cyber Policy Initiative and a senior fellow in Carnegie's Technology and International Affairs program. He works on the geopolitical implications of the Internet and cybersecurity, with a focus on the global financial system, influence operations, and other areas of importance as actors exploit the gray space between



war and peace. He is the author of *Cyber Mercenaries: The State, Hackers, and Power*. His work has been published by the *Washington Post*, *Foreign Policy*, *CNN*, *Slate*, *Lawfare*, *Jane's Intelligence Review*, *TIME*, and he has appeared on *BBC World Service*, *Al Jazeera*, and *Bloomberg*. Prior to joining Carnegie, Tim was the director of the Global Cybersecurity Norms and Resilience Project at New America and head of research of New America's Cybersecurity Initiative. He also spent several years working with refugees and in the humanitarian field, including with the United Nations in Rwanda, Geneva, and New York.

## Vaccine Research: The Road Ahead



### **Gagandeep Kang**

Professor of Microbiology, Division of Gastrointestinal Sciences, Christian Medical College  
@GKangInd

Gagandeep Kang is a professor of microbiology at the Christian Medical College (CMC) in Vellore. She works on enteric infections in children, particularly on transmission and immune responses, to design effective interventions. Current studies include active hospital and community-based surveillance and clinical trials of new and existing vaccines, with use of molecular based assays to study the diversity of pathogens and the immune response of children with viral and parasitic enteric infections. She is the first woman from India to be elected a fellow of the Royal Society. She is also the first Indian woman to be elected to fellowship of the American Academy of Microbiology and the only physician-scientist to receive the Infosys Award in Life Sciences. Gagandeep received her training in medicine and microbiology at the Christian Medical College, Vellore in southern India.

## Future of Personal and Non-Personal Data



### **Anirudh Burman**

Associate Fellow, Carnegie India  
@AnirudhBurman

Anirudh Burman is an associate fellow at Carnegie India. He works on key issues relating to public institutions, public administration, the administrative and regulatory state, and state capacity. He has also worked extensively on financial regulation and regulatory governance. Anirudh's current research interests focus on property rights and land markets, particularly the regulatory framework affecting land rights and land titles, the relationship between tenure security and land transactions, and public administration issues in land markets in India. In addition, he is currently working on issues related to data protection and data localization. Prior to this, Anirudh has published papers on regulatory governance in India, parliamentary oversight, and the constitutional right to free movement and residence within India. He has co-authored other papers on measuring regulatory responsiveness, administrative law in financial regulation, title insurance in land markets, the regulation of insolvency professionals, and judicial accountability.



**Tarunima Prabhakar**  
Nonresident Scholar, Carnegie India  
@Lyciast

Tarunima Prabhakar is a nonresident scholar at Carnegie India. She works at the intersection of technology, policy, and global development. Her recent work looks at the impact of machine learning and predictive analytics, loosely called AI, on access to credit and other essential services in India. She also leads Tattle, an open source project she co-founded to make accurate information more accessible to mobile first users in India and to increase visibility to trends on chat apps. She was previously a research fellow at the Center for Long Term Cybersecurity at UC, Berkeley. As a practitioner, Tarunima has worked on ICTD and Data Driven Development projects with non-profits and tech companies in Asia and the United States.



## Public Sessions

**Day 1: December 14, 2020**

**Sub-theme: *Geopolitics of Technology: Technical Gets Political***

### Welcome Remarks



**Rudra Chaudhuri**

Director, Carnegie India

@Rudra\_81

Rudra Chaudhuri is the director of Carnegie India. His primary research focuses on the diplomatic history of South Asia and contemporary security issues. He is the author of *Forged in Crisis: India and the United States Since 1947*. His research has been published in scholarly journals such as *International History Review*, *Diplomacy and Statecraft*, *Journal of Strategic Studies*, *International Affairs*, the *RUSI Journal*, *Defense Studies*, and other academic and policy-focused journals. Rudra is a senior lecturer at the Department of War Studies and the India Institute at King's College London (on research leave). In addition, he is the founding director of the U.K. Foreign and Commonwealth Office's (FCO) Diplomatic Academy for South Asia. He is also a visiting professor of international relations at Ashoka University, New Delhi. Rudra previously taught at the U.K. Joint Services Command and Staff College. He holds a PhD in War Studies from King's College London.



## Conversation: Geopolitics of Technology: Technical Gets Political



### S. Jaishankar

External Affairs Minister, Government of India  
@DrSJaishankar

S. Jaishankar is the external affairs minister of India. Earlier S Jaishankar was President – Global Corporate Affairs at Tata Sons Private Limited from May 2018. He assumed his responsibilities as foreign secretary of India in 2015. He has more than three decades of diplomatic experience. Joining the Indian Foreign Service in 1977, he has represented India's interests and fostered friendly working relationships in countries around the world. From 1981 to 1985, he served as undersecretary (Americas) and policy planning in the Ministry of External Affairs. He then spent three years from 1985 to 1988 as first secretary handling political affairs at the Indian Embassy in Washington, DC, followed by two years as first secretary and political advisor to the Indian Peace Keeping Force (IPKF) in Sri Lanka. S Jaishankar holds a Ph.D. and M.Phil. in International Relations and M.A. in Political Science. He is a member of the International Institute for Strategic Studies in London.



### William J. Burns

President, Carnegie Endowment for International Peace  
@CarnegieEndow

Bill Burns is president of the Carnegie Endowment for International Peace. He retired from the U.S. Foreign Service in 2014 after a thirty-three-year diplomatic career. He is only the second serving career diplomat in history to become deputy secretary of state. Bill is author of the bestselling book, *The Back Channel: A Memoir of American Diplomacy and the Case for Its Renewal*. Between 2008 to 2011, he served as under-secretary of state for political affairs. He has been ambassador to Russia, assistant secretary of state for Near Eastern affairs, and ambassador to Jordan. His other posts include executive secretary of the State Department and special assistant to former secretaries of state Warren Christopher and Madeleine Albright. Amongst other awards, Bill has received three

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Presidential Distinguished Service Awards and several Department of State awards. He has also received the highest civilian honors from the Department of Defense and the U.S. intelligence community.

### **Conversation: Global Governance of Technology: Role of Multilateral Institutions**



#### **Fabrizio Hochschild-Drummond**

Undersecretary General & Special Adviser for UN 75, United Nations

@HochschildF

Fabrizio Hochschild-Drummond is under-secretary-general and special adviser to the secretary-general. Prior to his appointment, Fabrizio served as assistant secretary-general for strategic coordination in the Executive Office of the Secretary-General (2017-2019). Previously, he served as deputy special representative for the UN peacekeeping mission in Central African Republic (MINUSCA) in 2016, UN Resident coordinator, humanitarian coordinator and resident representative of the UN Development Programme (UNDP) in Colombia from 2013 to 2016, and as director of the field personnel division for the United Nations from 2010 to 2012. A graduate of the University of Oxford, United Kingdom, Fabrizio has published studies and articles on leadership, on the protection of civilians, on transitional justice and reconciliation among other topics.



#### **Nivruti Rai**

Country Head, Intel India & Vice-President Data Center Group, Intel Corporation

@rnivruti

Nivruti Rai is country head of Intel India and vice president in the Data Platforms Group (DPG) at Intel Corporation. Nivruti has had a career journey of 27+ years at Intel. In the first 13 years she was a technologist and has been a management leader for the last 14 years. Nivruti is also passionate about driving innovation, technology advancement and research in collaboration with the vibrant ecosystem for India's digital transformation. In her current role, Nivruti provides overall engineering and business unit leadership and leads operations for Intel India,

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driving innovation and execution for engineering teams delivering global products and roadmaps. Nivruti is also responsible for DPG India site engineering and execution, with a focus on delivering platforms aligned with the India team's charter. In addition, she supports DPG and the Intel Sales and Marketing Group in strengthening customer, ecosystem, academic and research lab relationships in India.

## Special Address



### **Taranjit Singh Sandhu**

Ambassador of India to the United States

@SandhuTaranjitS

Taranjit Singh Sandhu is the ambassador of India to the United States. He was deputy chief of Mission at the Embassy of India in Washington DC from July 2013 to January 2017. Earlier, he was first secretary (political) at the Embassy of India, Washington, DC. He has also been at the Permanent Mission of India to United Nations, New York from July 2005 to February 2009. Prior to his current assignment in Washington DC, he was high commissioner of India to Sri Lanka from January 2017 to January 2020. He had also served at the High Commission of India, Colombo earlier as the head of the political wing from December 2000 to September 2004. He studied at the Lawrence School, Sanawar and graduated with History Honors from St. Stephens' College, Delhi. He pursued a master's degree in International Relations at the Jawaharlal Nehru University, New Delhi.



## Panel: Fostering Digital Ties: The Future of India-U.S. Relationship



### **Renu Pall**

Additional Secretary for New Emerging & Strategic Technologies, Ministry of External Affairs, Government of India

@renu\_pall

Renu Pall is the additional secretary for New Emerging & Strategic Technologies. She has represented India as ambassador to Austria & Montenegro and as permanent representative of India to over 9 International Organizations. She was governor for India to the IAEA Board in 2017-2019. Her assignments—in Moscow, Paris, Washington DC, and Berlin and work in MEA in the Americas Division, as Joint Secretary (ASEAN Multilateral) and as Joint Secretary (Indian Ocean Region)—have enhanced her strategic focus. She implemented the redefinition of the ASEAN-India relationship to a strategic partnership, intensification of India’s engagement with East Asia Summit, transformation of the Asia-Europe Meeting to substantive cooperation, and enhancement of the Indian Ocean partnerships with Sri Lanka, Mauritius, Maldives, Seychelles as also the Indian Ocean Rim Association (IORA).



### **Nandini Kannan**

Executive Director, Indo-U.S. Science & Technology Forum

Nandini Kannan is the executive director of the Indo-U.S. Science & Technology Forum (IUSSTF). She has spent over 20 years in academia, first as a faculty member and then as chair, Department of Management Science and Statistics at the University of Texas at San Antonio (UTSA). Since 2014, she has served as a program director at the US National Science Foundation (NSF) where her responsibilities included managing core disciplinary research programs in the Division of Mathematical Sciences as well as a number of cross-directorate and cross-agency activities. She has served as a co-chair for several Data Science related activities in support of Harnessing the Data

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Revolution, one of NSF's 10 Big Ideas. She also helped to create partnerships with the National Institutes of Health (NIH) to support collaborative efforts in biomedical data science. She received an M. Sc. degree in Statistics from the University of Madras, M.S. in Mathematics from the University of Pittsburgh, and a Ph.D. in Statistics from The Pennsylvania State University. She is a fellow of the American Association for the Advancement of Science (AAAS), American Statistical Association (ASA) and an elected member of the International Statistical Institute.



**Jay Gullish**

Digital Policy Director, U.S.-India Business Council  
@USIBC

Jay Gullish is the digital policy director of the U.S.-India Business Council's Digital Economy Committee, Media and Entertainment Committee and Privacy Working Group. He has passionately promoted digital development in more than 20 countries over his 25 years of experience in government, industry, and civil society across the telecoms, information technology, satcom, and cyber sectors. He has a reputation as an innovative critical thinker and industry expert known for thought leadership, problem solving, and the ability to get the job done. Most recently, he served as a digital policy officer at the U.S. Embassy in New Delhi covering cyber policy, telecommunications, information technology, digital inclusion, and commercial space.



**Modan Saha**

Chief Executive Officer, Tata Strategic Management Group  
@modansaha

Modan Saha is the chief executive officer of Tata Strategic Management Group and supports group companies and the Chairman's Office in strategy and transformation initiatives. He has spent over 17 years in the Banking and Financial Services industry in various senior management roles. Previously, he was responsible for corporate strategy, strategic investments, and new initiatives of Axis Bank. He led the creation of the first bank-led fin-tech



lending platform (invoicemart.com) in India. In Axis Bank he served in a senior leadership role in risk management, managing enterprise risk, market risk, risk analytics, operational risk, and risk data management. Earlier, as the joint managing director & CEO of Axis Securities, Modan built India's leading online investment platform (axisdirect.in) and scaled it to one of the largest and finest retail broking platforms in India. Before that, at ICICI Bank, he was a founding member of the International Business Division and led its Product and Strategy function in Private Banking and Global Remittances.

## **Curtain Raiser: The Future of Technology**



### **Evan Feigenbaum**

Vice President for Studies, Carnegie Endowment for International Peace  
**@EvanFeigenbaum**

Evan A. Feigenbaum is vice president for studies at the Carnegie Endowment for International Peace, where he oversees research in Washington, Beijing, and New Delhi on East Asia and South Asia. He is also the 2019-20 James R. Schlesinger distinguished professor at the Miller Center of Public Affairs at the University of Virginia. From 2001 to 2009, he served at the U.S. State Department as deputy assistant secretary of state for South Asia (2007–2009), deputy assistant secretary of state for Central Asia (2006–2007), and a member of the policy planning staff with principal responsibility for East Asia and the Pacific (2001–2006). Evan is the author of three books and monographs, including *The United States in the New Asia* (2009) and *China's Techno-Warriors: National Security and Strategic Competition from the Nuclear to the Information Age* (2003).



## Panel: The Future of Technology



### **Cina Lawson**

Minister of Digital Economy and Digital Transformation, Government of Togo  
**@cinalawson**

Cina Lawson is minister of Digital Economy and Digital Transformation, at the government of Togo. Cina began her career at the World Bank in Washington, D.C., assisting governments in developing countries to execute regulatory reforms. She then worked for Alcatel-Lucent in Paris before joining Orange Group in New York City as manager of Corporate Strategy and Business Development. As a minister, she has boosted private sector participation in the Togolese telecoms sector, enacted new legal and regulatory frameworks and privatized the historic operator. Her transformative initiatives such as strengthening data protection and cybersecurity; implementing universal digital ID; digitizing government-to-people payments; and, accelerating the deployment of high-speed Internet nationwide, have contributed to building a solid foundation for the modernization of Togo's economy. She is a fervent advocate of innovation driven solutions to Africa's developmental challenges. Lawson's work has gained recognition from around the world, including from the World Economic Forum, les Napoleons, and Forbes. In 2019, she received the Harvard Alumni Public Service Award, becoming the first African female political figure to do so. She is a graduate of Sciences Po Paris and the Kennedy School of Government at Harvard University.



### **Elonnai Hickok**

Nonresident Scholar, Carnegie Endowment for International Peace  
**@elonnai**

Elonnai Hickok is a nonresident scholar at Carnegie Endowment for International Peace and an independent expert examining how technology and policy can impact and benefit society. She has contributed to international policy initiatives and has presented worldwide on issues of digital rights, emerging technologies, and the counterbalancing  
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of governmental and individual interests and rights. She has developed research and written extensively on issues relating to privacy, cybersecurity, surveillance, intermediary liability, and AI.



**Jonathan Lee**

Director of Global Public Policy, WhatsApp

Jonathan Lee is director of Global Public Policy at WhatsApp. He helps develop and execute public policy strategy and engagement for the world's largest private messaging service. Previously, Jonathan served as a U.S. government national security official at the Department of Homeland Security, National Security Council staff, and Department of Defense. He was also a management consultant at McKinsey & Company.



**David Kirkpatrick**

Founder and Editor-in-Chief, Technomy Media

@DavidKirkpatric

David Kirkpatrick is a journalist, the founder and editor-in-chief of Technomy Media, and the author of the book *The Facebook Effect: The Inside Story of the Company That Is Connecting the World*. Technomy conferences gather leaders to discuss how tech changes everything and helps to build a better society. Along with weekly virtual roundtables, its major ongoing virtual initiative is the Health+Wealth of America, a series of discussions with leaders like Steve Case, Anthony Scaramucci, Sallie Krawcheck, Esther Dyson, and others responding to the pandemic and the challenging moment in which we find ourselves. David has spent 25 years at Fortune Magazine and is a contributing editor at Bloomberg Television and a member of the Council on Foreign Relations.



**Rahul Matthan**  
Partner, Trilegal  
@matthan

Rahul Matthan is a partner at Trilegal and heads the technology, media, and telecom (TMT) practice. He currently serves on the firm's board. Rahul has advised some of the largest technology and telecom acquisitions in the country. He advises domestic and international corporations on a wide range of regulatory issues including privacy, map regulation, fintech, encryption, spectrum regulation, e-commerce, sharing economy, biotech, digital content, and streaming media. Rahul has been involved in several policy initiatives including assisting the government in preparing the country's privacy law as well as its Unique ID law. He has previously served as a member of the Reserve Bank of India's Committee on Household Finance. Rahul is a frequent speaker at various fora and has a weekly column in LiveMint called Ex Machina. Rahul is the author of *Privacy 3.0: Unlocking our Data-Driven Future*.

**Conversation: Examining Global Privacy Legislations: Lessons for India**



**Julie Brill**  
Chief Privacy Officer, Microsoft Corp.  
@JulieSBrill

Julie Brill is the chief privacy officer at Microsoft. She leads Microsoft's global efforts to elevate privacy as a fundamental human right. Julie serves as a global authority concerning privacy; internet governance; telecommunications; accessibility; and corporate standards. Prior to coming to Microsoft, she served as a commissioner of the U.S. Federal Trade Commission (FTC), where she worked on issues of critical importance to consumers, including privacy, antitrust, fair advertising practices and fighting financial fraud. While at the FTC, Julie was named the Commission's most important voice on Internet privacy and data security issues and was most



recently named a Top Data Privacy Influencer of 2020, among other honors. Julie graduated, magna cum laude, from Princeton University, and from New York University School of Law.

**Day 2: December 15, 2020**

**Sub-theme: *Data: Linking the World***

**Conversation: Governance of Technology**



**Malcolm Johnson**

Deputy Secretary General, International Telecommunication Union  
**@ITU\_DSG**

Malcolm Johnson is deputy secretary general of the International Telecommunication Union. During his first term as deputy secretary-general, he implemented many efficiency measures releasing more resources to key ITU activities. He led the ITU's new headquarters building project from initiation to selection of architect and concept design. He has modernized ITU's physical security, improved internal coordination and streamlined and digitized many internal processes. From 2007 to 2014 he served as director of ITU's Telecommunication Standardization Bureau where he spearheaded activities in cybersecurity, climate change and accessibility, considerably increasing the involvement of developing countries and academia in ITU's standards activities.



**Suyash Rai**

Fellow, Carnegie India  
**@suyashrai**

Suyash Rai is a fellow at Carnegie India. His current research looks at the financial sector, the fiscal system, and the infrastructure sector. Suyash seeks to understand the workings of the Indian state through the lens of political

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economy, ideological contestation, institutional design, administrative processes, and economic analysis. Suyash has published papers in the areas of fiscal policy, financial reforms, banking regulation, and infrastructure policy. He has also published several essays and opinion pieces in various popular media outlets. Prior to joining Carnegie India, Suyash was a fellow at the National Institute of Public Finance and Policy (NIPFP), where he worked in the areas of financial regulation, infrastructure regulation, fiscal management, and public administration. He has held consulting positions with the Consultative Group to Assist the Poor (CGAP) of the World Bank, and with the Ministry of Finance of the Government of India. He holds a postgraduate diploma in management and an undergraduate degree in computer science.

### **Special Address: India and Austria: Imperatives for a Digital Future**



#### **Margarete Schramböck**

Minister for Digital and Economic Affairs, Republic of Austria

Margarete Schramböck is the Austrian minister of digital and economic affairs. She studied Business Administration at the University of Economics and Business in Vienna (WU), where she also obtained her doctorate in Social and Economic Sciences in 1997. Margarete was the CEO of NextiraOne in 2002, before which she occupied a managerial position at Alcatel. From December 2008 to December 2011 she became managing director of NextiraOne Germany. In 2014, she was the CEO of Dimension Data Austria, a global provider in the fields of network and computer centers, cloud services, IT security, voice, and video communications as well as application integration. Between 2016 and 2017, she was CEO of A1 Telekom Austria. In 2017 Margarete was appointed federal minister of Science, Research and Economy. From 8 January 2018 to 3 June 2019 she was federal minister for digital and economic Affairs. In 2017 she was elected Tyrolean of the Year.

### **Conversation: The World We Live In**



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**Ashley J. Tellis**

Tata Chair for Strategic Affairs & Senior Fellow, Carnegie Endowment for International Peace  
@CarnegieEndow

Ashley J. Tellis holds the Tata Chair for Strategic Affairs and is a senior fellow at the Carnegie Endowment for International Peace. While on assignment to the U.S. Department of State as senior adviser to the undersecretary of State for political affairs, he was intimately involved in negotiating the civil nuclear agreement with India. Previously, he served as senior adviser to the ambassador at the U.S. Embassy in New Delhi. He also served on the National Security Council staff as special assistant to President George W. Bush. Ashley is a counselor at the National Bureau of Asian Research, the Research Director of its Strategic Asia program and co-editor of the program's sixteen most recent annual volumes. He earned his PhD in political science from the University of Chicago. He also holds an MA in political science from the University of Chicago and both BA and MA degrees in economics from the University of Bombay.



**C. Raja Mohan**

Director, Institute of South Asian Studies, National University of Singapore  
@MohanCRaja

C Raja Mohan is director at the Institute of South Asian Studies, National University of Singapore. Earlier, he was Professor of South Asian Studies at Jawaharlal Nehru University, New Delhi. and at the S Rajaratnam School of International Studies, Nanyang Technological University, Singapore. Raja has been associated with numerous think tanks in New Delhi, including the Institute of Defence Studies and Analyses, the Centre for Policy Research, and the Observer Research Foundation. He was also the founding director of Carnegie India. He was the Henry Alfred Kissinger Chair in International Affairs at the United States Library of Congress, Washington DC, from 2009 to 2010. He has also served on India's National Security Advisory Board. He led the Indian Chapter of the Pugwash Conferences on Science and World Affairs from 1999 to 2006.



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**Vijay Gokhale**

Non-resident Senior fellow, Carnegie India & Former Foreign Secretary  
@VGokhale59

Vijay Gokhale is a nonresident senior fellow at Carnegie India. He retired from the Indian Foreign Service in January 2020. From January 2018 to January 2020, he served as the foreign secretary of India. Prior to his term as foreign secretary, he had served as India’s high commissioner to Malaysia from January 2010 to October 2013, as ambassador of India to the Federal Republic of Germany from October 2013 to January 2016 and as ambassador of India to the People’s Republic of China from January 2016 to October 2017. He has served as head of the India-Taipei Association, in Taiwan, from July 2003 to January 2007. He has worked extensively on the Indo-Pacific region with a special emphasis on Chinese politics and diplomacy. Since his retirement from the Foreign Service, he has contributed opinion pieces to *The New York Times*, *The Hindu*, and *The Indian Express*.



**Tanvi Madan**

Senior Fellow, Foreign Policy Program, & Director, India Project, Brookings Institution  
@tanvi\_madan

Tanvi Madan is a senior fellow in the Foreign Policy program and director of The India Project at the Brookings Institution. Her work explores India’s role in the world and its foreign policy, focusing on India’s relations with China and the United States. Tanvi is the author of *Fateful Triangle: How China Shaped US-India Relations during the Cold War* (2020). She is currently completing a monograph on India’s foreign policy diversification strategy and researching her next book on the China-India-US triangle. In the past, Tanvi has been a Harrington doctoral fellow and teaching assistant at the University of Texas at Austin, a research analyst with James Steinberg and Stephen P. Cohen at Brookings, and has worked in the information technology industry in India. She has a Ph.D. in public policy from UT-Austin, an M.A. in international relations from Yale University, and a B.A. (Hons.) in History from Lady Shri Ram College.



## Panel: Personal and Non-personal Data: India’s Emerging Data Architecture



### **Melinda Claybaugh**

Privacy Policy Director, Facebook  
**@Facebook**

Melinda Claybaugh is the privacy policy director for legislation at Facebook. She has spent 12 years at the Federal Trade Commission, where she worked in the Privacy and Identity Protection division on enforcement actions related to consumer privacy—including children's privacy—as well as credit reporting and information security. Melinda later joined the Office of International Affairs, where she specialized in international privacy policy. She represented the United States in privacy policy discussions at the OECD and has worked within the Data Privacy Subgroup of APEC to strengthen and increase participation in the Cross-Border Privacy Rules System. With other U.S. government stakeholders, she provided input to various privacy-related laws around the world. Melinda also worked to strengthen international privacy enforcement and encourage cross-border cooperation among regulators worldwide.



### **Rajeev Chandrasekhar**

Member of Parliament, Rajya Sabha  
**@rajeev\_mp**

Rajeev Chandrasekhar is a member of parliament in the state of Karnataka. In the parliament, he is a vocal advocate on governance, technology, and economics. He has raised the issue of corruption scams like 2G in parliament. Presently he is member of the Finance, Public Accounts Committee (PAC), and the Joint Committee on Personal Data Protection Bill. Rajeev focuses on reforms in Economy and Governance, Technology and Internet, issues related to youth, national security, and sustainable city governance of Bangalore. He has also served as a microprocessor design engineer at Intel in Silicon Valley.

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**Varad Pande**

Partner, Omidyar Network India  
@Varad\_Pande

Varad Pande is a partner at Omidyar Network India. Varad has held diverse roles across government, multilateral and strategy consulting organizations. He has been officer on special duty to India's Minister for Rural Development and Environment & Forests. Varad was a member of the US India Task Force set up by the Center for American Progress in 2017 to chart a shared bilateral agenda. He has been principal advisor to Abhijit Banerjee on the United Nation's Panel on the Post-2015 Agenda (SDGs) and was a Sherpa on the UN-SG's Global Sustainability Panel. Varad holds an MPA in International Development (MPA/ID) from the Harvard Kennedy School, an MA in Economics from University of Cambridge, and a BA Honors in Economics from St. Stephens College, Delhi.



**Annabel Lee**

Public Policy Lead for Data, APAC, Amazon Web Services

Annabel Lee leads Amazon Web Services' (AWS) public policy work on Data issues for APAC. She has deep subject matter expertise on data issues, including data protection, privacy and emerging technology, from both the industry and government perspectives. Prior to joining AWS, Annabel was senior manager, APAC Policy at BSA, The Software Alliance, where she advocated on behalf of the software industry in the Asia-Pacific region on a range of regulatory and legislative issues including privacy, cybersecurity, and copyright. Annabel was also policy and international manager in the Personal Data Protection Commission of Singapore, responsible for developing policy and advising both public and private sector organizations on data protection and privacy issues. Her key areas of focus included emerging technology, data economy, telecommunications, and financial sectors. She also held the international portfolio in the Commission for the Asia-Pacific and Europe regions. Annabel was also responsible for the Singapore Government's work on AI Industry Strategy, and worked on AI Governance issues, including the Singapore Government's Model AI Governance Framework. Annabel is a graduate of the London School of Economics and Political Science. She is based in AWS' Singapore office.

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## Panel: Localization and Internationalization of Data: Getting the Balance Right



### **Rishab Bailey**

Legal Consultant, National Institute of Public Finance and Policy

Rishab Bailey is a lawyer and technology policy researcher, working at the National Institute of Public Finance and Policy, New Delhi. His work focuses on issues concerning regulation of emerging technologies, surveillance and privacy, intermediary liability, and telecom policy. He has previously worked with the law firm, Amarchand & Mangaldas; the global software company, ThoughtWorks Inc.; and various civil society organizations engaged in policy work in the Internet governance space. Rishab completed his undergraduate degree from the National Law School of India University, Bangalore, and has an advanced master's degree in law and digital technologies (cum laude) from the University of Leiden, Netherlands.



### **Katherine Charlet**

Director, Data Governance, Google

@KateCharlet

Katherine Charlet is the director of Google's Centers of Excellence. As the director for data governance, she addresses issues related to privacy, information security, and government access. She was previously the inaugural director of the Technology and International Affairs Program at the Carnegie Endowment for International Peace. Prior to her role at Carnegie, she spent a decade as a civil servant in the U.S. government, including as the deputy assistant secretary of defense (acting) for cyber policy and as director for strategic planning at the White House National Security Council.



**Ralf Sauer**

Deputy Head of Unit-International Data Flows and Protection, European Commission  
**@RalfSauer3**

Ralf Sauer is the deputy head of the directorate-general justice and consumer's unit for international data flows and protection at the European Commission which covers data flows both for commercial purposes and in the area of law enforcement cooperation. He has been one of the key negotiators of the EU-U.S. Privacy Shield and in the adequacy talks with Japan. Ralf has also represented the Commission in the negotiations on a modernization of Council of Europe Convention 108. Currently, he is leading the discussions with a number of countries that have expressed an interest in an adequacy finding (e.g. Korea) and participates in the international negotiations on PNR (Passenger Name Records) and Europol cooperation agreements, among others. He regularly speaks at international conferences and panels on data protection issues. Prior to joining the directorate-general justice and consumer's unit, Ralf worked for almost 10 years in the European Commission's legal service, among others representing the Commission in front of the European courts in more than 200 cases. He holds an LL.M. and doctoral degree from Yale Law School.



**Rob Sherman**

Vice President and Deputy Chief Privacy Officer, Facebook  
**@rmsherman @facebook**

Rob Sherman is the deputy chief privacy officer at Facebook. He is responsible for managing the company's engagement on public policy issues surrounding privacy, security, and online trust. Collaborating with Facebook's product teams, regulators, and other key stakeholders, Rob works to build the company's core commitments—transparency, control, and accountability—into every aspect of the Facebook service. Rob joined Facebook from Covington Burling LLP where he represented Facebook and other leading technology and digital media companies on regulatory and public policy issues relating to privacy, data security, electronic marketing and communications, and digital content.



**Smriti Parsheera**

Researcher, National Institute of Public Finance and Policy & Fellow, CyberBRICS Project  
@SmritiParsheera

Smriti Parsheera is a researcher at the National Institute of Public Finance and Policy, New Delhi and a fellow with the CyberBRICS Project hosted by the FGV Law School, Brazil. Her research focuses on digital rights and technology and the policy processes shaping these fields. She has previously worked with the Competition Commission of India and the United Nations Development Programme and was a part of the research secretariat for the Financial Sector Legislative Reforms Commission. Smriti graduated from the National Law School of India University, Bangalore and obtained her LLM from the University of Pennsylvania with a Certificate in Law and Business from the Wharton School. She is currently pursuing a PhD in policy studies from the Indian Institute of Technology, Delhi.

**Conversation: Regulating Digital Markets: The Road Ahead**



**R.S. Sharma**

Former Chairman, Telecom Regulatory Authority of India

R.S. Sharma is former chairman of Telecom Regulatory Authority of India (TRAI). As chairman of TRAI, he worked with a consumer centric focus to provide telecom and broadcasting services to all pockets of the country at an affordable price. He has provided thought leadership in adoption of net neutrality principles in India; established the use of crowdsourced data to measure service quality and adopted cutting-edge technologies (e.g. blockchain) to achieve regulatory outcomes. He also pushed for the development of indigenous technologies keeping country's needs in mind. He was the first director general & mission director of the Unique Identification Authority of India (UIDAI). He has also authored a book: *The Making of Aadhaar*, documenting the experiences of implementing this gigantic project. He holds a master's degree in mathematics from IIT, Kanpur (India), another master's in computer science from the University of California (USA) and a PhD from IIT Delhi.

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**T.V. Mohandas Pai**

Co-founder & Chairman, Aarin Capital & Chairman, Manipal Global Education  
@TVMohandasPai

Mohandas Pai is the chairman of Aarin Capital; 3one4 Capital; and Manipal Global Education. He is a member of the boards of Havells India, the Institute of Public Enterprises, and Ascendas Property Fund. Mohan is the chairman of the Regulatory and Financial Technology Committee of the Securities and Exchange Board of India (“SEBI”) and is a founder-trustee of the Akshaya Patra Foundation. He was awarded the Padma Shri by the President of India in 2015 and the Karnataka Rajyotsava Award in 2004. Mohandas was previously a board member and the chief financial officer (CFO) of Infosys. Mohandas holds a bachelor’s degree in commerce as a University Rank Holder from St. Joseph’s College of Commerce, Bangalore, a bachelor’s degree in law (LLB) from Bangalore University, and is a fellow member of the Institute of Chartered Accountants of India as an All-India Rank Holder. He is based in Bangalore, India.



**Urvashi Aneja**

Co-founder and Director, Tandem Research  
@urvashi\_aneja

Urvashi Aneja is co-founder and director of Tandem Research, an independent research collective that generates policy insights at the interface of technology, society, and sustainability. She has written extensively on the gig economy, gender and digitalization, algorithmic governance, and Big Tech, and has been quoted in numerous national and international media publications. Urvashi is also an associate fellow at Chatham House, a contributor to the Tech and Social Justice initiative at the World Economic Forum, and a former member of the T-20 working group on the Future of Work and Learning. She has also been a member of the Indian government committees for artificial intelligence and frontier technologies. Urvashi has a Doctorate from the Department of Political Science,

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University of Oxford, and was formerly associate professor of International Affairs at the OP Jindal Global University, India.

**Day 3: December 16, 2020**

**Sub-theme: *Digital Payments: The Future of Global Financial Highways***

### **Special Address**



#### **Nguyen Huy Dung**

Vice Minister of Information and Communications, Government of the Socialist Republic of Vietnam

Nguyen Huy Dung is the deputy minister of Information and Communications at the government of the Socialist Republic of Vietnam. He has helped develop laws, government decrees, and major projects, thereby contributing to the creation and completion of legal corridors, mechanisms, and policies in the field of information technology application and information security. Prior to his current position, he was the director general of the Authority of Information Technology Application. Before this, he held several positions within the Authority of Information Security: first as deputy executive director, and later as director general. Nguyen holds a bachelor's of I.T. degree from Nanyang Technological Institute, Singapore and a master's degree from the University of Technology at the Hanoi National University.

### **Conversation: India's Tech Partnerships: Opportunities and Challenges**



#### **C. N. Ashwath Narayan**

Deputy Chief Minister of Karnataka and Minister for Higher Education, Information Technology, Biotechnology, and Science & Technology, Government of Karnataka

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**@drashwathcn**

C. N. Ashwath Narayan is the tenth deputy chief minister of Karnataka and the current minister of higher education, information technology, biotechnology, and science and technology in the Government of Karnataka. He is a member of the Karnataka legislative assembly representing the Bharatiya Janata Party (BJP) from the Malleshwaram constituency, Bengaluru, Karnataka. Narayan is an educationist, healthcare entrepreneur, and philanthropist. He has enabled the introduction of health insurance schemes, pension schemes for widows, handicaps and senior citizens, day care centers for senior citizens, and seva kendras in each ward. Previously, Narayan has served as convener of doctors' cell (BJP) and founding president of Rajiv Gandhi University of Health Sciences, Bengaluru. He was also a senate member of Bangalore University, syndicate and senate member of Rajiv Gandhi University of Health Sciences employees association, and chairman of the committee for drafting statutes for A&B, C&D cadre of employees of Rajiv Gandhi University of Health Sciences, Bengaluru.



**Florian Herrmann**

Head of the State Chancellery-Minister of State for Federal and European Affairs and the Media, Bavaria

**@fwhfreising**

Florian Herrmann is a member of the Bavarian government. Initially, he served as head of the Bavarian State Chancellery and minister of state for Federal Affairs. Since 2008, he has been a member of the Bavarian State Parliament for the district of Freising. He has been a member of the CSU Upper Bavaria District Executive Board since 2009, as well as member of the CSU Party Executive Board since 2013. Before being appointed to Markus Söder's cabinet, he acted as chairperson of the Committee for Municipal Affairs, Domestic Security and Sports, as well as spokesperson for domestic affairs of the CSU parliamentary group. He has a doctorate in law and has studied at the Ludwig Maximilians University in Munich, the Johann Wolfgang Goethe University in Frankfurt am Main and the Rheinische Friedrich-Wilhelms University in Bonn. In 1996, he earned his Master of Laws (LL.M.) degree from the University of Pennsylvania, Philadelphia. In 2017, he received the honorary crime stamp from the Federation of German Criminal Police Officers (BDK), State Association of Bavaria.



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**R. K. Misra**

Nonresident Scholar, Carnegie India  
@rk\_misra

R. K. Misra is a nonresident scholar at Carnegie India and currently leads the Center for SMART Cities—a knowledge bank and repository of best practices in the areas of planning, designing, and managing Smart Cities. He is a graduate from IIT Kanpur and a post-graduate from Tokyo University in Urban Planning and Transport Management. He was part of the core team which designed New Tokyo Smart City and its SMART transport system including “Yurikamome.” After his return to India, R. K. founded Tenet Technologies, Tenet Telecom, and Tenet Retail. In 2006 he founded SAHYOG-Indian Council for Public Private Partnership.

**Special Address**



**Rahul Chhabra**

Secretary (Economic Relations), Ministry of External Affairs, Government of India

Rahul Chhabra is secretary of Economic Relations at the Ministry of External Affairs. Before this, he has been high commissioner to Kenya, ambassador to Somalia, and permanent representative to the United Nations Environment Programme (UNEP) and the United Nations Human Settlements Programme (UN-Habitat). He was Ambassador to Hungary and Bosnia & Herzegovina from August 2015 to October 2018. He graduated in Economics from Stephen’s College, Delhi University. He then obtained a graduate degree in Economics from Delhi School of Economics. After this, he completed his MBA from the Indian Institute of Management (IIM), Calcutta.



## Panel: India's Unified Payments Interface: Ready for Global Acceptance?



### **Victor Malu**

Head of Future Financial Systems, Financial Sector Deepening, Kenya  
@victor\_malu

Victor Malu is the head of future financial systems (FFS) at Financial Sector Deepening in Kenya. He leads FSD's work in supporting the creation of a platform for inclusion through the formal financial system. He identifies opportunities for FSD project investments and markets FSD Kenya's program to high potential partners across the private sector, non-profit institutions, and government. He is currently the chairman of The Payments Association of Kenya. Victor served as a director of Daraja Microfinance for five years as well as working in the banking industry for more than two decades in banks such as Bank Indozues, Citibank and Barclays bank. He received his Bachelor of Commerce Degree, First Class Honors- Accounting major from the University of Poona as well as a Diploma in Advanced Management program from the University of Navarra through Strathmore University.



### **Mahendra Nerurkar**

Director, Amazon Pay India

Mahendra Nerurkar is the director of Amazon Pay in India. He is responsible for the on-site and doorstep payments' experience, financing programs, issuance of gift cards, stored value accounts and co-brand credit cards, third party merchant acceptance, and digital payment categories. Prior to Amazon Pay, he led Jungle.com. Before Amazon, he spent multiple years in strategy and technology consulting firms working across technology, media, telecom, aviation, and energy industries. He holds an MBA from Northwestern (Kellogg) university and undergraduate degree in civil engineering from University of Mumbai.

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**Abhijit Bose**

Head of India, WhatsApp

Abhijit is the head of WhatsApp in India. With over twenty-five years of experience in building products and scaling businesses in multiple markets, Abhijit was the first top-level executive to be hired outside of the US by WhatsApp. Prior to joining WhatsApp, Abhijit was the CEO and co-founder of Ezetap Mobile Solutions. Abhijit has also worked as a senior leader at Siebel Systems, Intuit, and NGPay—one of India’s first mobile commerce companies. Abhijit holds a B.S. in Engineering from Cornell University and an MBA from Harvard Business School.



**Ritesh Shukla**

Chief Executive Officer, NPCI International Payments Limited

@NPCI\_NPCI

Ritesh Shukla is chief executive officer of National Payments Corporation of India, International Payments Limited (NIPL) and is responsible for formulating business strategies and leading business development by deploying NPCI's technology and solutions in International Markets. He holds a master's Degree in Business Administration with specialization in International Business. He has over 20 years of work experience with expertise in areas of managing country business, and leading business development and relationship management. Prior to joining NPCI, he was part of MasterCard's business in Middle East and North Africa. During his 6 years with MasterCard, he has performed a wide array of roles in country management, business development functions, P/L functions to drive profitability and market share, a role in which he provided best-in-class financial services to top-tier multi-national corporations and financial institutions. His previous stints include working with Visa Inc. and leading financial institutions such as Axis Bank, HDFC Bank and SBI Cards in payments business.

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**Pia Roman Tayag**

Director of the Office of the United Nations Secretary-General's Special Advocate for Inclusive Finance for Development

**@PiaRomanTayag**

Pia Bernadette Roman Tayag is the director of the office of the United Nations Secretary-General's Special Advocate for Inclusive Finance for Development (UNSGSA). She joined the Office of the UNSGSA after spending 18 years at Bangko Sentralng Pilipinas (BSP). Most recently, she worked as the Managing Director of the Center for Learning and Inclusion Advocacy at BSP. This included a focus on inclusive finance, particularly to craft policies and regulations, develop partnerships for financial education, strengthen consumer protection, build stakeholder relations, and implement the National Financial Inclusion Strategy. She graduated with a bachelor's degree in Public Administration from the University of the Philippines and with a master's degree in International Affairs, focused on Economic Development, from Columbia University. She is also a fellow in the Fletcher School Leadership Program for Financial Inclusion at Tufts University.



**Ajay Kaushal**

Director, BillDesk

**@ajaykaushalBD**

Ajay Kaushal is a co-founder and director of BillDesk, India's largest electronic payment solutions platform that has been the leader in driving electronic payments and digital commerce. BillDesk technology and solutions continue to make consumer electronic payments easy and accessible to businesses, merchants, and governments. Prior to setting up BillDesk, Ajay has worked with SBI Capital Markets and Arthur Andersen. Ajay serves as co-chair of the Confederation of Indian Industry's Committee on Inclusion and Digitization.

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## Panel: Central Bank Digital Currencies: End of the Road for Cash?



### **Hanna Armelius**

Senior Advisor, Payments Department, Analysis and Policy Division, Sveriges Riksbank  
@HannaArmelius

Hanna Armelius is a senior advisor at the Swedish central bank, the Riksbank. She holds a Ph.D. in Economics from the Uppsala University, and has published work in the fields of public economics, international macroeconomics, monetary policy, and central bank digital currency. Hanna is a macro economist and has been extensively involved in the analytical part of the Riksbank's e-krona project.



### **Jonathan Dharmapalan**

Chief Executive Officer, eCurrency

Jonathan Dharmapalan is the founder of eCurrency. He has pioneered groundbreaking work in central bank digital currencies and has championed the international standards set in the field. Prior to establishing eCurrency, Jonathan was the head of Ernst & Young's Global Telecommunications Practice. Jonathan was also a senior partner at Deloitte where he led the global technology, media, and telecommunications (TMT) consulting practice. He also led Deloitte's Silicon Valley office. Jonathan has over 30 years of related technology and business experience. Jonathan developed advanced technology solutions at AT&T Bell Laboratories. As an undergraduate, he worked on the space shuttle program at MIT's Draper Laboratories. He holds a BS degree in Electrical Engineering from Northeastern University and a MS in Electrical Engineering from the California Institute of Technology (Caltech).

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**Neha Narula**

Director, Digital Currency Initiative, MIT Media Lab  
@neha

Neha Narula is the director of the Digital Currency Initiative at the MIT Media Lab, where her research interests are cryptocurrencies and distributed systems. She received her PhD in computer science from MIT in 2015, where she published work on fast and scalable databases. Neha has given a TED talk on the future of money, was named WIRED's list of 25 leaders shaping the next 25 years of technology and was listed on Fortune's Ledger 40 under 40. In a previous life, she helped relaunch the news aggregator Digg and was a senior software engineer at Google.



**Scott Hendry**

Senior Special Director, Financial Technology (FinTech) at Bank of Canada

Scott Hendry was appointed senior special director of financial technology (FinTech) in the Funds Management and Banking Department of the Bank of Canada in June 2016. He oversees the bank's efforts to monitor and research developments and implications of new technologies affecting the financial sector. This includes serving as the business lead on the bank's central bank digital currency research program. Scott previously held the role of director of research in the Funds Management and Banking Department and, before that, for the Financial Markets Department. Scott's personal research has focused on central bank digital currency, electronic money, price discovery in the Canadian government bond market, and central bank communication. He has a Ph.D. in Economics from the University of Western Ontario.

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**Day 4: December 17, 2020**

**Sub-theme: *Digital Inclusion: Taking the Local to the Global***

**Round Table: Open Digital Ecosystems: The Way Forward for India**



**Kiran Anandampillai**

Advisor at National Health Authority

@kanandampillai

Kiran Anandampillai is currently an advisor at the National Health Authority (NHA), which is implementing India's two large digital health initiatives - The National Digital Health Mission (NDHM) and Ayushman Bharath (PMJAY). He supports both programs in creating digital public goods that act as enablers for the Indian healthcare ecosystem. Kiran is a telecom engineer by training and was a founding member of OnMobile, where he helped build it to become a public company. He volunteers his time at UIDAI, where he works on Aadhaar, and at iSPIRT foundation, where he works on the Health Stack. He now dedicates his time to driving impact in healthcare. He is the founder of Drishti, a social impact eye care provider that delivers high quality eyecare across a district up to the village level. Drishti currently manages 12 eye care hospitals across rural Karnataka, India.



**Arun Sharma**

Director, Direct Benefit Transfer Mission

@sharmaarun

Arun Sharma is director, Direct Benefit Transfer Mission in the Cabinet Secretariat, Government of India. He works on policy, regulatory, and technical aspects of Aadhaar (India's Unique Identification system), payments systems and digitization of government systems and processes. Prior to joining the DBT Mission, Arun worked with the

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International Finance Corporation, World Bank Group, as the country head for G2P (government to person) payments practice. He has also worked in Ministries of Finance and Urban Development. Arun is a civil servant, specializing in public financial management, government payment systems, digital ID, and financial inclusion. He holds an MBA from the Indian School of Business, Hyderabad; a Diploma in International Relations from the German Development Institute (DIE), Bonn; and a Bachelor's in Civil Engineering from Indian Institute of Technology, BHU, India.



**Ajay Nair**  
Chief Executive Officer, Swasth Alliance  
@ajayn

Ajay is the chief executive officer of Swasth Alliance, a non-profit alliance that builds digital health infrastructure for public good. He joined Swasth after gaining extensive experience in public health, health-tech entrepreneurship, and social impact investing. He has been an advisor to Fortune 500 companies, digital health innovators, non-profits, and governments, designing innovative medical and health-tech offerings, as well as business models. He co-founded and led MeraDoctor to become one of India's first telemedicine networks, serving over 700,000 patients across every state of the country. Prior to this, he was an impact investor at Acumen Fund in New York and Nairobi, focussing on Health & Energy.

### Special Address



**Isa Ali Ibrahim Pantami**  
Minister of Communications and Digital Economy, Government of Nigeria  
@DrIsaPantami



Isa Ali Ibrahim (Pantami) is the minister of communications and digital economy of the Federal Republic of Nigeria. Earlier, he was the director general (DG)/chief executive officer (CEO) of the National Information Technology Development Agency (NITDA) and was Nigeria's chief Information technology officer (CITO). He has also been a member of several presidential and inter-ministerial committees including the Committee on Citizen Data Management and Harmonization, National Committee on Export Promotion, Digital Identity Ecosystem Steering Committee, and National Action Committee on African Continental Free Trade Area Agreement (AfCFTA). He was also appointed as AfCFTA champion for communications and digital economy. He is the recipient of several global awards and is the Champion of the Massachusetts Institute of Technology (MIT) Regional Entrepreneurship Acceleration Program (REAP).

### **Panel: The Future of Digital Infrastructure**



#### **Nobuhiro Endo**

Chairman of the Board, NEC Corporation  
@NEC\_corp

Nobuhiro Endo is the chairman of the board of NEC Corporation. Previously, he has served as president and chairman of the board (representative director) from April 2010 to June 2019. He has served as senior vice president and was responsible for corporate strategy and business development. Nobuhiro received his doctorate from the Graduate School of Science and Engineering at Tokyo Institute of Technology. Over the next two decades, he developed wireless communication systems for satellite communication systems and mobile phone base stations. Nobuhiro has focused on driving innovation through advanced technologies. He has built strong relationships with customers both in and outside Japan.



#### **Paul Fletcher**

Minister for Communications, Cyber Safety and the Arts, Government of Australia  
@PaulFletcherMP

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Paul Fletcher is the minister for communications, Cyber Safety and the Arts in the Morrison Government. He entered Parliament in December 2009 as the Member for Bradfield; was appointed parliamentary secretary to the Minister for Communications in September 2013; minister for major projects, territories, and Local Government in September 2015; minister for Urban Infrastructure in July 2016; minister for urban Infrastructure and Cities in December 2017; minister for Families and Social Services in August 2018 and was appointed to his present role in May 2019. Before entering Parliament, Paul was director, corporate and regulatory affairs at Optus for eight years. Earlier in his career Paul was chief of staff to the minister for Communications in the Howard Government, Senator Richard Alston.



**Laura Lucas Magnuson**

Vice President for Communications and Strategy, Carnegie Endowment for International Peace and Former Communications Director, Obama Foundation  
**@LauraLMagnuson**

Laura Lucas Magnuson is the vice president for communications and strategy at the Carnegie Endowment for International Peace. Prior to joining Carnegie, Laura was the communications director for the Obama Foundation, where she managed strategic communications and media relations. Laura previously led communications and public relations for the global law firm Morgan Lewis and media relations for the Chicago Council on Global Affairs. Laura was a Foreign Service officer at the U.S. Department of State for more than a decade, serving overseas at the U.S. embassies in Nepal and the Czech Republic and later working at State Department headquarters to advance U.S. policy related to NATO. Earlier, she served as the spokesperson for the Office of the Special Representative for Afghanistan and Pakistan and the press unit chief for the Bureau of South and Central Asian Affairs. Laura also worked as a special assistant to Secretary of State, Hillary Clinton.



## Panel: Digital Finance: Connecting the Next Billion in India & Africa



### **Esselina Macome**

Chief Executive Officer of Financial Sector Deepening Moçambique & Former Executive Director of Payment Systems at Central Bank of Mozambique

@EsselinaM\_FSDM

Esselina Macome is an associate professor at the Eduardo Mondlane University. She worked at the Central Bank of Mozambique from 2005-2015, as executive director and member of the Board. She was responsible for Currency Issuing, Payment systems, information Technology and financial inclusion portfolio. Presently, Esselina is also working at the Financial Sector Deepening Moçambique (FSDMOç) as the chief executive officer since July 2017. Her areas of interest include the usage of Information Communication Technology (ICT) for development, financial inclusion with a focus on Digital financial services (DFS) and ICT for Gender related issues. Esselina holds a PhD in Information Technologies and an MSc in Analysis, Design and Management of Information System by LSE, University of London. In 2016, she concluded an international certification in Leadership for Financial Inclusion offered by Fletcher School.



### **Shilpa Kumar**

Partner, Omidyar Network India

@OmidyarNetwork

Shilpa Kumar provides overall leadership, including strategy and investments, across the areas of Digital ID, Governance, Citizen Engagement and Property Rights initiatives at Omidyar Network. She also leads policy work in Financial Inclusion, working closely with the FI team. Shilpa has spent more than three decades with the ICICI Bank group (India's largest private sector bank). Till recently, she served as MD & CEO of ICICI Securities, India's largest retail broker & a leading investment bank in the country. Shilpa has held board positions in several organizations including ICICI Securities, Clearing Corporation of India and National Investment and Infrastructure

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Fund. She has also served on regulatory committees including SEBI's Secondary Markets Advisory Committee, RBI's Technical Advisory Committee and RBI's Mohanty Committee on Monetary Policy. She has held positions in industry bodies like FIMMDA, and the FICCI Capital Markets Committee. Shilpa is an alumnus of the Indian Institute of Management, Kolkata.



**Malavika Raghavan**

Adviser and Former Head, Future of Finance Research, Dvara Research  
**@teninthemorning**

Malavika Raghavan is a lawyer and inter-disciplinary researcher in India. She works on data protection and privacy, inclusion, technology, and consumer protection in finance. She established and led the Future of Finance Initiative for Dvara Research in partnership with the Gates Foundation from 2016 until 2020, with a research agenda focused on issues for policy and regulation at the intersection of technology, finance, and inclusion. She remains an advisor to the Initiative and serves on the Steering Committee of the Digital Identity Research Initiative (DIRI) at the Indian School of Business as well as the Steering Committee of the Data Governance Network at the IDFC Institute. Malavika was a 2018 fellow of the Chevening Financial Services fellowship at King's College London, and a 2016 fellow of the On Purpose Social Enterprise Leadership Program. Malavika graduated with an MPhil in Public Policy from the University of Cambridge, and a B.A., L.L.B.(Hons) law-degree from the National Academy of Legal Studies and Research (NALSAR), Hyderabad.



**Sultan Meghji**

Chief Executive Officer and Co-founder, Neocova  
Nonresident Scholar, Cyber Policy Initiative, Carnegie Endowment for International Peace  
**@sultanmeghji**

Sultan Meghji, CEO and co-founder of Neocova, is an entrepreneur, lecturer, and scholar with more than 20 years of experience in technology, international business, and finance. Over his career, Meghji has provided leadership at

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organizations including ABN AMRO, American Express, Monsanto, and United Airlines. He has served as an advisor to the US Treasury, G7, FDIC, OCC, and the FBI in areas of cybersecurity, quantum computing and artificial intelligence. He is a distinguished member of the Bretton Woods Committee, a member of the Forbes Technology Council and a member of the Missouri Advisory Committee for the U.S. Global Leadership Coalition. He currently lectures at Washington University as an adjunct faculty member and has published works covering artificial intelligence, biotech, big data, analytics, and startups. His work is frequently published in major business outlets such as Forbes, Xconomy and The Financial Revolutionist.

### Special Address



**Amitabh Kant**  
Chief Executive Officer, NITI Aayog  
@amitabhk87

Amitabh Kant is the CEO of National Institution for Transforming India (NITI Aayog). He is a member of the Indian Administrative Service, IAS (Kerala Cadre: 1980 batch) and is the author of Branding India-An Incredible Story, Incredible India 2.0 and has edited The Path Ahead- Transformative Ideas for India. Amitabh has been a key driver of several initiatives that have positioned India and Kerala State as leading manufacturing and tourism destination. Amitabh is the recipient of Economic Times Policy Change Agent of the Year Award, the Bloomberg TV Personality of the year Award, the NDTV Administrator of the year Award and the Distinguished Fellowship of the Institute of Directors. He is the recipient of One Globe Award-2016 for leadership in Transforming Governance for the 21st Century. Kant is a member of the steering board of “Shaping the Future of Production Systems” of World Economic Forum. He is also the recipient of the Golden Peacock Award for Leadership in Economic Transformation-2017.



## Conversation: The Future of Innovation



**Satya Nadella**  
Chief Executive Officer, Microsoft  
[@satyanadella](#)

Satya Nadella is chief executive officer of Microsoft. Before being named CEO in February 2014, he held leadership roles in both enterprise and consumer businesses across the company. Most recently, he was executive vice president of Microsoft’s Cloud and Enterprise group. In this role he led the transformation to the cloud infrastructure and services business, which outperformed the market and took share from competition. Previously, he led R&D for the Online Services Division and was vice president of the Microsoft Business Division. Before joining Microsoft, he was a member of the technology staff at Sun Microsystems. Originally from Hyderabad, India, he lives in Bellevue, Washington. He earned a bachelor’s degree in electrical engineering from Mangalore University, a master’s degree in computer science from the University of Wisconsin – Milwaukee and a master’s degree in business administration from the University of Chicago. Satya serves on the board of trustees to Fred Hutchinson Cancer Research Center and his alma mater the University of Chicago, as well as the Starbucks board of directors.



**Penny Pritzker**  
Founder and Chairman of PSP Partners, former US Secretary of Commerce  
Member of board, Microsoft, and Chairman of the Board of Trustees, Carnegie Endowment for International Peace  
[@PennyPritzker](#)

Penny Pritzker is the founder and chairman of PSP Partners and its affiliates, Pritzker Realty Group, PSP Capital and PSP Growth. From June 2013 through January 2017, she served as U.S. secretary of commerce in the Obama Administration. Penny is an entrepreneur, civic leader, and philanthropist, with more than 30 years of experience in numerous industries. She founded Vi Senior Living (formerly known as Classic Residence by Hyatt), and co-founded The Parking Spot, Artemis Real Estate Partners, and Inspired Capital. Penny is also a member of the board

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of Microsoft, chairman of the board of trustees of the Carnegie Endowment for International Peace, a member of the Harvard Corporation, Aspen Strategy Group and the Aspen Economic Strategy Group, and a co-chair of the Cyber Readiness Institute. She also served on President Obama's Council on Jobs and Competitiveness and his Economic Recovery Advisory Board.

### **Conversation:**



#### **Ajit Mohan**

Vice President and Managing Director, India, Facebook  
**@secondatticus**

As the vice president and managing director, India at Facebook, Ajit Mohan spearheads the company's India charter. Ajit and his leadership team are focused on the company's efforts to enable Indians to connect with people, communities, and the things they care about the most. Prior to Facebook, Mohan was the chief executive officer at Hotstar, where he launched and built Hotstar into India's leading premium video streaming platform. Previously, he was at McKinsey & Company, first in New York in its media practice, where he worked with media companies in North America, Europe, and Latin America, and later as a fellow at the McKinsey Global Institute, where he co-authored *India's Urban Awakening*, a 2010 report that outlined a new policy approach to India's rapid urbanization. He is a graduate of the School of Advanced International Studies (SAIS) at Johns Hopkins University and the Wharton School at the University of Pennsylvania. He holds a Bachelor of Science degree in computer engineering from Nanyang Technological University in Singapore.



## Conversation: Lessons from the Pandemic: Innovating for the Future



**Bhavish Aggarwal**  
Co-founder, Ola Cabs  
@bhash

Bhavish Aggarwal is the founder & chairman of Ola Group, one of the world's largest ride-hailing platforms and India's most popular mobility platform. With the mission of building mobility for a billion people, he started Ola in 2010 with Ankit Bhati, a fellow alumnus from the Indian Institute of Technology in Mumbai. Before Ola, Bhavish worked with Microsoft Research for two years, filing two patents alongside having three papers published in international journals. Ola is now one of India's most valuable and respected new economy organizations with over 2.5 million driver-partners in over 250+ cities across India, Australia, New Zealand, United Kingdom with significant presence in key global markets like London and Sydney. The Ola Group includes various business units including its ride-hailing arm, Ola Mobility, Ola Electric, Ola Foods, and Ola Financial Services.

**Day 5: December 18, 2020**

**Sub-theme: *Transforming Healthcare for a Post-COVID World***

### Keynote on Digital IDs: The Way Forward



**Toomas Hendrik Ilves**  
Former President of Estonia  
@IlvesToomas

Toomas Hendrik Ilves is the former president of Estonia (2006-2016). He has served as vice-president of the Foreign Affairs Committee of the European Parliament (2004-2006) and as foreign minister of Estonia (1996-2002),

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where he led Estonia's EU and NATO accession process. From 1993-96, he served as Estonia's first post-independence ambassador to Washington. From 1988 to 1993, he was director of the Estonian Service at RFE-RL. Prior to that, he was a research analyst in the Research Department of RFE-RL. Since 2018, he has been a member of the advisory board of the Oxford University Centre for Technology and Global Affairs; a member of the Kofi Annan Foundation's Global Commission on Elections and Democracy in the Digital Age; and a Commissioner of Transatlantic Commission on Election Integrity, the Alliance of Democracies Foundation. In 2020, he joined the Center for European Policy Analysis as a Distinguished Fellow and became Commissioner of the WHO Pan-European Commission on Health and Sustainable Development.

### **Special Address**



#### **Dragan Primorac**

Chair of the International Affairs Committee of the American Academy of Forensic Sciences

@draganprimorac2

Dragan Primorac is a pediatrician, forensic expert, and geneticist. He serves as the member of the Croatian prime minister's scientific committee established to fight COVID-19. He serves as the chair of the International Affairs Committee of the American Academy of Forensic Sciences and teaches at several universities. He has authored two hundred and fifty scientific papers and abstracts as well as 20 book chapters. Several renowned media outlets, both electronic and print, have reported on the results of his work. From 2003 to 2009, he served as minister of Science, Education, and Sports of The Republic of Croatia.



## Keynote on India's Digital Health Mission



### **Kris Gopalakrishnan**

Chairman, Axilor Ventures & Co-founder, Infosys

@Kris\_Sg

Kris Gopalakrishnan is the chairman of Axilor Ventures. As co-founder of Infosys, he served as its vice chairman from 2011 to 2014 and the CEO and MD from 2007 to 2011. He was elected president of India's apex industry chamber Confederation of Indian Industry (CII) between 2013 and 2014. He served as one of the co-chairs of the World Economic Forum in Davos in January 2014. He serves on the boards of several education and research organizations including the International Institute of Information Technology Bangalore and Okinawa Institute of Science and Technology. He is the chairman of the Vision Group on IT of Karnataka Government and the Chairman of CII Startup Council.

## Conversation: Building Health Stack for India



### **Renuka Sane**

Associate Professor, National Institute of Public Finance and Policy

@resanering

Renuka Sane is an associate professor at the National Institute of Public Finance and Policy. Her research interests lie in household finance, pensions, bankruptcy, and data protection. She was a peer reviewer for the Financial Sector Legislative Reforms Commission on consumer protection and a member of the research team of the Bankruptcy Legislative Reforms Commission on individual insolvency. Renuka is a member of the Pension Advisory Committee of the Pension Fund Regulatory Development Authority (PFRDA) and a member of the Working Group on individual insolvency at the Insolvency and Bankruptcy Board of India (IBBI). She has a PhD in Economics from the University New South Wales, Australia and holds an M.A. in Economics from Mumbai University.

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**Priya Karnik**

Volunteer for the Health Stack, iSPIRT Foundation

@karnik\_priya

Priya Karnik is a volunteer at iSPIRT for the Health Stack which is designed to be built as a public good digital infrastructure for affordable, accessible, and quality healthcare. Outside of iSPIRT, Priya is the founder of Dvara Money, a fintech organization providing comprehensive financial services to the urban underserved. Prior to setting up Dvara Money, Priya was a vice president at Paytm. Priya started her career with Citibank and held global and regional business roles based out of New York and Singapore, respectively. She is also the co-founder of INGO, a not for profit entity, which bridges the digital divide in the social sector. Priya has a management degree from Indian Institute of Management Calcutta and an undergraduate degree in computer engineering from National Institute of Karnataka, Surathkal.



**Neeraj Jain**

Country Director, PATH India

@neerajPATH

Neeraj Jain is PATH's India Country Director since June 2016. He oversees the strategic and programmatic engagement and financial operations for a matrix of global and in-country programs implemented across PATH's offices in India. PATH's work is focused on different public health verticals like TB/HIV, neglected tropical diseases, maternal and newborn health, nutrition, and immunization. Neeraj is a member of CII's Nutrition and Public Health Committees where he engages with industry leaders on the need for greater investments in India's public health systems. He is also a Member of the Management Committee of the Food Fortification Resource Centre, a resource and support center of FSSAI (Food Safety and Standards Authority of India) to promote large-scale fortification of food across India where he provides guidance on scaling up food fortification initiatives to address India's nutrition gaps. Neeraj has also been instrumental in setting up the India Sanitation Coalition and continues to be part of their Steering Committee.

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## Panel: The People Need to Know: The Challenges of Developing a COVID-19 Vaccine



### **Adar Poonawalla**

Chief Executive Officer, Serum Institute of India  
**@adarpoonawalla**

Adar Poonawalla is the chief executive officer of the Serum Institute of India and the co-founder of the Viloo Poonawalla Charitable Foundation. He has received the CNN Indian of the Year 2017 and has also been appointed as the Swachh Bharat Ambassador. He continues to expand the organization by developing new vaccines for global outbreaks, most currently being the Coronavirus vaccine, first of its kind to be made in India. He is deeply interested in uplifting the underprivileged and improving the environment.



### **Balram Bhargava**

Director General, Indian Council of Medical Research  
**@ProfBhargava**

Balram Bhargava is the director general of the Indian Council of Medical Research (ICMR). He is a cardiologist and is one of the foremost leaders in biomedical innovation, public health, medical education, and medical research. He directs the School of International Biodesign at AIIMS. Balram developed the indigenous platinum iridium coil coronary stent and has been instrumental in clinically evaluating and establishing medicated Indian stents. Balram has been awarded the SN Bose Centenary Award by the Indian National Science Congress, the National Academy of Sciences Platinum Jubilee Award, the Tata Innovation Fellowship the Ranbaxy Award, OP Bhasin Award, Vasvik Award and more recently the UNESCO Equatorial Guinea Prize for Life Sciences and the Dr. LEE Jong-Wook Memorial Prize for Public Health, 2019 by WHO Headquarters, Geneva. He is also a recipient of the Padmashri award.

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**John N. Nkengasong**

Director, Africa Centres for Disease Control and Prevention  
**@JNkengasong**

John Nkengasong is the director of the Africa Centres for Disease Control and Prevention. Prior to his current position, he served as the acting deputy principal director (acting) of the Center for Global Health, United States Centers for Disease Control and Prevention (U.S. CDC), and chief of the International Laboratory Branch, Division of Global HIV and TB., U.S. CDC. He has received numerous awards for his work including Sheppard Award, the William Watson Medal of Excellence, the highest recognition awarded by CDC. He has been knighted by the governments of Cote d'Ivoire, Senegal, and Cameroon for his significant contributions to public health. He is an adjunct professor at the Emory School of Public Health, Emory University, Atlanta, GA. He serves on several international advisory boards including the Coalition for Epidemic Preparedness Initiative—CEPI, the International AIDS Vaccine Initiative (IAVI) among others.



**Soumya Swaminathan**

Chief Scientist, World Health Organization  
**@doctorsoumya**

Soumya Swaminathan was appointed WHO's first chief scientist in March 2019. She heads the Science division that was created to strengthen the organization's core scientific work and ensure the quality and consistency of its norms and standards. A pediatrician from India and a globally recognized researcher on tuberculosis and HIV, she brings with her 30 years of experience in clinical care and research and has worked throughout her career to translate research into impactful programs. Most recently, Soumya was secretary of the Department of Health Research and Director General of the Indian Council of Medical Research. She has sat on several WHO and global advisory bodies and committees, including the WHO Expert Panel to Review Global Strategy and Plan of Action on Public Health, Innovation and Intellectual Property, the Strategic and Technical Advisory Group of the Global TB Department at WHO, and as Co-Chair of the Lancet Commission on TB.

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**Kiran Mazumdar-Shaw**  
Executive Chairperson, Biocon  
@kiranshaw

Kiran Mazumdar-Shaw is a pioneering biotech entrepreneur, a healthcare visionary, a global influencer, and a passionate philanthropist. She is a pioneer of India's biotech industry and founder of Biocon. Kiran is the proud recipient of two of India's highest civilian honors: the Padma Shri (1989) and the Padma Bhushan (2005). She was also honored with the Order of Australia, Australia's Highest Civilian Honor in January 2020. In 2016, she was conferred with the highest French distinction, Knight of the Legion of Honor. She has been named as the winner of EY World Entrepreneur of the Year 2020 Award. She has been elected as a full-term member of the board of trustees of the Massachusetts Institute of Technology (MIT), USA. She also serves as a member of the National Academy of Engineering (NAE), USA.

### **Panel: India & Africa: Collaborating in a Post-Pandemic World**



**K. VijayRaghavan**  
Principal Scientific Adviser to the Government of India  
@kvijayraghavan

K. VijayRaghavan is the principal scientific adviser to the Government of India and the chairperson of the Prime Minister's Science, Technology & Innovation Advisory Council (PM-STIAC). As the principal scientific adviser, he works with all arms of the government, states, citizens, and national and international agencies. Prior to this, he served as secretary at the Department of Biotechnology (DBT), Government of India from 2013 to 2018. He is also a distinguished professor at the National Centre of Biological Sciences (NCBS), Tata Institute of Fundamental Research Bangalore (TIFR) and was the NCBS director till 2013. He is a Fellow of the Indian Science Academies, the Royal Society, the Academy of Medical Sciences (UK), and a Foreign Associate of the US National Academy of Sciences. He was awarded the Padma Shri by the Government of India in 2013.

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**Manu Prakash**

Associate Professor of Bioengineering, Stanford University  
**@PrakashLab**

Manu Prakash is an associate professor of Bioengineering at Stanford University working in the field of physical biology and frugal science. He combines his passion for basic science with development of affordable and accessible technologies that can be used for science education, research, and public health in resource poor settings with the goal of democratizing access to scientific tools. Manu is best known for developing the ultra-low-cost paper microscope Foldscope and Paperfuge, a 20-cent hand-powered centrifuge made of paper and string. He is a 2016 recipient of the MacArthur Fellowship, an HHMI-Gates Faculty Scholar. In 2015, he received the National Geographic Emerging Explorer distinction and the NIH Director's New Innovator Award, among other recognitions.



**Simon Kay**

Head of International Operations, Wellcome Trust  
**@wellcometrust**

Simon Kay is the head of international operations at Wellcome Trust and leads Wellcome's efforts to build biomedical and health research capacity in Africa and India. His teams at Wellcome work closely with the Alliance for Accelerating Excellence in Science in Africa (AESA) and with the Wellcome Trust/Department of Biotechnology (DBT) India Alliance. His team provides governance and operational support to Wellcome's major programmes in Thailand, Vietnam, Kenya, Malawi, and South Africa. Simon describes his career as a book in four parts. In the first part he studied for a PhD in Cancer Immunology. He then moved to the British Council where he worked for 26 years with postings in the UK, Singapore, Bangladesh, Nigeria, Sudan, Russia, and Israel. In his latest chapter, not yet completed, he is studying for a Masters in Coaching and Behavioral Change and hopes to use this expertise to think more deeply about how research and innovation capacity is built in researchers.



## Conversation: Preempting Pandemics: Preparing for the Future



### **William A. Haseltine**

President, ACCESS Health International  
@WmHaseltine

William A. Haseltine is a scientist, businessman, philanthropist, and author. He is an internationally recognized expert on COVID-19. He was a professor at Harvard Medical School and Harvard School of Public Health and is well known for his pioneering work on cancer, HIV/AIDS, and genomics. He has founded several biotechnology companies, including Human Genome Sciences, Inc. Eight pharmaceutical products from companies he founded are currently approved by U.S. and international regulatory agencies. William is the author of more than 200 peer reviewed manuscripts and ten books, including two books on COVID: *A Family Guide to COVID* and *A COVID Back to School Guide*. He is currently chair and president of the global health think tank ACCESS Health International.

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<sup>i</sup> <https://www.thehindu.com/business/Industry/india-has-highest-data-usage-report/article28078254.ece>