



# DIGITAL STRATEGIES FOR DEVELOPMENT FORUM 2017

7-8 September 2017

Asian Development Bank | Manila, Philippines





## ABOUT THE FORUM

Digital technologies greatly impact the economic and societal development of nations. The Asian Development Bank (ADB) notes that **adoption of digital technologies can allow developing countries to leapfrog over traditional development pathways**—from resource-based economies and labor-intensive industries to the production of knowledge-based products and services.

In line with this, ADB will host the **2017 Digital Strategies for Development Forum (DSDF)**. Established in 2014 as the Digital Strategies for Development Summit, the event has become a venue for high-impact discussions on ICT for Development. It tackles country, sectoral and thematic development strategies toward Digital Economy in Asia and the Pacific.

DSDF 2017 is organized in partnership with the Department of Information and Communications Technology (DICT) of the Government of the Philippines, the Asia-Pacific Telecommunity (APT), United Nations Educational, Scientific and Cultural Organization (UNESCO) and the Asia Society for Social Improvement and Sustainable Transformation (ASSIST). It will be held on **7–8 September 2017**, at the **ADB Headquarters** in the Philippines, as it ties up with the 14th APT Telecommunication/ICT Development Forum (ADF-14) of the APT on September 5–6.

DSDF 2017 will focus on both areas of **education and smart cities**, in the **context of digital technologies development within the Fourth Industrial Revolution (4th IR)**.

DSDF 2017 will then be a venue for organizations to **discover ways to be prepared to adapt ourselves as well as our development activities for the changes within the 4th IR backdrop**. Participants will discuss new strategies and emergent ideas, share best practice, and network with all development partners and stakeholders from across the region.

### HIGHLIGHTS



**250+**

Delegates from  
all over the region



**40+**

International ICT  
and sectoral thought  
leaders and speakers



**15+**

Interactive streams to  
discover new strategies  
and exchange ideas



## STREAMS



Education



Smart Cities

## PURPOSE AND BENEFITS



**EXCHANGE**

Create connections  
and exchange knowledge



**ENABLE**

Equip practitioners  
with the right tools



**EXCEL**

Walk away with learning to  
produce results

## TARGET AUDIENCE



National and Local  
Government



Private  
Sector



NGOs and  
Civil Society



Academic  
Institutions



IT Development-  
Focused Practitioners



Technology-Savvy and  
Entrepreneurial Youth



## DAY 1 | 07 SEPTEMBER 2017

8:00 a.m. – 9:00 a.m. Registration

9:00 a.m. – 9:15 a.m. **Welcome Remarks**  
Mr. Stephen P. Groff, Vice President (Operations 2)  
Asian Development Bank (ADB)

9:15 a.m. – 9:45 a.m. **Opening Address**  
Sec. Rodolfo Salalima  
Secretary, Department of Information and Communications Technology  
(DICT) Philippines

Ms. Areewan Haorangsi  
Secretary General, Asia-Pacific Telecommunity (APT)

9:45 a.m. – 10:15 a.m. Group Photo/Networking Break

## THE 4th INDUSTRIAL REVOLUTION

10:15 a.m. – 10:45 a.m. **Keynote Speech | The Fourth Industrial Revolution (IR): Its Impact on Business, Society and Development**

The Fourth Industrial Revolution (4th IR) is already here. The way it disrupts society is happening at exponential rates, and its effects are felt across the globe. Still, not everyone recognizes it. The first keynote speech will highlight the impact of the 4<sup>th</sup> IR on different sectors—business, social, and development—and how further these will be shaped by this current revolution.

**Mr. Sandeep Aneja**, Managing Partner, Kaizen Private Equity.

10:45 a.m. – 12:30 p.m. **Plenary Session | How Ready are We? Digital Strategies for the 4<sup>th</sup> IR**

Through vast technological innovations, what was once deemed futuristic is now reality. The 4th IR has permeated through all the sectors of society, and everyone now must make the most out of it. Stemming from the earlier keynote speech, this session will highlight various digital strategies employed in private and public spaces as the 4th IR happens.

**Mr. Ramanathan Ramanan**, Mission Director, Atal Innovation Mission under the National Institution for Transforming India (NITI) Aayog.

**Mr. Shrikant Sinha**, COO, National Association of Software and Services Companies (NASSCOM) Foundation.

**Usec. Monchito Ibrahim**, Undersecretary, Department of Information and Communication Technology (DICT) Philippines.

**Mr. Simon Gee**, Managing Director, TechSoup Asia Pacific.

**Mr. Rey Lugtu**, President & Managing Director, The Engage Philippines.

**Ms. Shirin Hamid**, Principal Director, Office of Information Systems of Technology (OIST), Asian Development Bank.

Moderator: **Mr. Sreenivas Narayanan**, Managing Director, Asia Society for Social Improvement and Sustainable Transformation (ASSIST)



12:30 p.m. – 1:30 p.m. LUNCH BREAK

## **FUTURE SKILLS AND EDUCATION**

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1:30 p.m. – 3:00 p.m. Plenary Session | **E-ducation: The Future of Education and Training**

ICT has far-reaching effects on education, both in formal and informal settings. The two presentations in this segment will examine transformation, trends, and implications of ICT in the whole learning system—from management to delivery of interventions.

**Ms. Holly Clark**, Educational Strategist, EdTechTeam.

**Ms. Srividya Maliwal**, Chief Producer, Playware Studios.

**Mr. Vincent Quah**, Business Lead, Asia Pacific & Japan, Global Public Sector, Amazon Web Services.

### **Transformation of Education and Skills Development Preparing for the 4th Industrial Revolution Era**

**Dr. Peck Cho**, Distinguished Professor, Dongguk University, Republic of Korea.

Moderator: **Mr. Brajesh Panth**, Technical Advisor, Education, Asian Development Bank

3:00 p.m. – 3:30 p.m. Networking Break

3:30 p.m. – 5:00 p.m. **BREAKOUT SESSIONS | EDUCATION**

Despite challenges faced in the 4th IR, the world has been greatly renewed with numerous benefits that technology has offered. Beyond the challenges, these breakout sessions aim to tackle the opportunities through which ICT has been contributing to improved access to education, the delivery of quality learning and teaching, and overall education administration.

### **4A | Teaching Teachers: Preparing Trainers for ICT in education**

The vitality of teachers in education process cannot be overstated. Hence, in the context of ICT in education, the capacity of trainers also need to be given as much attention as the students who will be the end-recipients. This session will look at how the teachers and trainers can fully be prepared to harvest the benefits ICT has instore for the education sector.

**Dr. Jonghwi Park**, Programme Specialist, Educational Innovation and Skills Development, United Nations Educational Scientific and Cultural Organization (UNESCO).

**Ms. Holly Clark**, Educational Strategist, EdTech Team, Columbia University.

**Mr. Samuel Harris**, Educational Specialist, Amazon Web Services.

**Mr. Sungsup Ra**, Director, South Asia Department (SARD) Human and Social Development Division (SAHS), Asian Development Bank.

Moderator: **Mr. John Ruero**, President, Philippine Society for IT Educators (PSITE).



### **4B | Beyond the Books: e-Learning Contents and Digital Technologies at Classrooms**

With everything going digital, it is imperative that society pays attention to the utilization of digital education contents and teaching methods. With so many resources available in the palm of our hands, this session will study trends on digital classroom tools that are meant to facilitate more efficient and more engaging learning processes.

**Dr. Shanti Divaharan**, Associate Dean, Pedagogical Development and Innovations, National Institute of Education, Singapore.

**Mr. Rabi Karmacharya**, Executive Director, Open Learning Exchange (OLE) Nepal.

**Ms. Srividya Maliwal**, Chief Producer, Playware Studios.

**Ms. Ayako Inagaki**, Director, Southeast Asia Department (SERD) Human and Social Development Division (SEHS), Asian Development Bank.

Moderator: **Ms. Natalie Jorge**, Executive Director, Bato Balani Foundation.

### **4C | Localized ICT4E: Integrating ICT in Education Sector Development Program**

This session features case studies on the roles and methods that ICT has played in various national government educational reform programs – in both the traditional classroom-oriented setting, and in non-classroom set-up and vocational education. Learn how these countries managed to apply ICT in its local education context.

**Dir. Aida Yuvienco**, Director for Information and Communications Technology Service, Department of Education (DepEd), Philippines

**Mr. Yeshey Lhendup**, Deputy Chief Programme Officer, Ministry of Education, Bhutan

**Dr. Dae Joon Hwang**, Professor, Sungkyunkwan University, Republic of Korea.

**Ms. Emma Veve**, Director, Urban, Social Development, and Public Management Division, Pacific Regional Department, Asian Development Bank.

Moderator: **Ms. Lovelaine Basillote**, Executive Director, Philippine Business for Education (PBed)

6:00 p.m. onwards    Welcome Dinner hosted by DICT Philippines (by invitation only)



**DAY 2 | 08 SEPTEMBER 2017**

## SPECIAL SESSION ON HIGH-LEVEL TECHNOLOGY ROUNDTABLE DISCUSSION

8:00 a.m. – 9:00 a.m.      Registration

9:00 a.m. – 9:30 a.m.      **Introductory Session**  
Insightful Video on “4th Industrial Revolution”

9:30 a.m. – 11:30 a.m.      **Roundtable Discussion on High-Level Technologies—Implication for Development**

Chair: **Mr. Bambang Susantono**, Vice President for Knowledge Management, Asian Development Bank

Advanced technologies, more than ever, are crucial in various development interventions. The input speech in this session will analyze how the adoption of high level technologies can help to address development challenges. It will be followed by a panel discussion among sector representatives to talk about challenges and opportunities that high-level technology may present in their respective industries.

**Keynote Speech by Mr. Ramanathan Ramanan**, Mission Director, Atal Innovation Mission under the National Institution for Transforming India (NITI) Aayog.

### **High-level Technology Roundtable Discussion**

**Mr. Ramanathan Ramanan**, Mission Director, Atal Innovation Mission under the National Institution for Transforming India (NITI) Aayog.

**Sec. Rodolfo Salalima**, Secretary, Department of Information and Communications Technology (DICT) Philippines.

**Ms. Holly Clark**, Educational Strategist, EdTechTeam.

**Dr. Jeffrey Tung**, Head of R&D, Singapore & Southeast Asia, 3M.

**Mr. Vincent Quah**, Business Lead, Asia Pacific & Japan, Global Public Sector, Amazon Web Services.

**Mr. Sandeep Aneja**, Managing Partner, Kaizen Private Equity.



11:30 a.m. – 1:00 p.m. LUNCH BREAK

## **SMART CITIES AND SMART MOBILITY**

1:00 p.m. – 1:30 p.m. **SPECIAL SESSION**

1:30 p.m. – 3:00 p.m. **BREAKOUT SESSIONS | SMART MOBILITY**

The next breakout sessions will take a closer look at how ICT can affect certain smart city components, and how it aims to empower organizations to utilize these tools for the improvement of their business and the industry as a whole.

### **6A | What Makes Urban Transportation System Smart?**

What makes up an intelligent transport system (ITS)? This breakout session breaks down important components of the transportation systems of the future—particularly cloud-based services and e-payment services, which are being steadily adopted for their convenience and simplicity.

**Mr. Bryan Wong**, Public Sector Lead – ASEAN, Amazon Web Services

**Mr. Silvester Prakasam**, Director, Fare System, Land Transport Authority, Singapore

**Mr. Shigetoshi Tamoto**, Senior Vice President, ITS Japan

**Ms. Anna Charlotte Schou-Zibell**, Technical Advisor, Finance, Asian Development Bank

Moderator: **Mr. Akihiko Katayama**, Director, Strategy and Emerging Technology, PwC Hong Kong

### **6B | 5G, IoTs, and Sensor Networks: The Bloodstream of Smart Cities**

This breakout session takes the participants through an analysis of the importance of broadband internet, 5G, IoTs and sensor networks in a true smart city. It will analyze how different components of a smart city function and stay connected anytime, anywhere.

**Ms. Emanuela Lecchi**, Head of Public Policy, APAC, GSMA.

**Mr. Duncan Macintosh**, CEO & Executive Director, APNIC Foundation.

**Mr. Dai Young Jung**, Assistant Director, Busan Metropolitan City.

**Mr. Arun Ramamurthy**, Senior Public Management Specialist, Sustainable Development and Climate Change, Asian Development Bank.

Moderator: **Mr. Guillaume Mascot**, Head of Government Relations & APJ India, NOKIA





## 6C | Plugged-in: Building Out Electric Vehicles and Charging Infrastructures

The adoption of electric vehicles is slowly changing the direction of population mobility. With the transport sector contributing to a sizeable percentage of greenhouse gas emission, the switch to renewable sources of energy and electricity production has been the go-to response to sustainable transportation solutions.

**Mr. Terence Siew**, Regional Manager, Asia, Greenlots

**Mr. Rommel Juan**, President, Electric Vehicles Association of the Philippines

**Mr. Anthony Agoncillo**, EV Project Manager, Meralco

**Mr. Yongping Zhai**, Technical Advisor, Energy, Asian Development Bank

Moderator: **Dr. Danielle Guillen**, Senior Advisor, Transport & Climate, Deutsche Gesellschaft Fur Internationale Zusammenarbeit (GIZ) GmbH.

3:00 p.m. – 3:30 p.m.    Networking Break

3:30 p.m. - 4:30 p.m.    **Closing Plenary | “Networks for Networks: The Role of Stakeholders and the Need for Integration, Collaboration, and Cooperation”**

The last session ties together all the information from the two-day forum by putting at the fore ways on how the attendees can work together and maximize the opportunities for collaboration. Through the panelists, the delegates will be urged to go beyond the conventional partnership ideas. Instead, they will be led to forge smart partnerships for a smarter future.

**Mr. Ramanathan Ramanan**, Mission Director, Atal Innovation

Mission under the National Institution for Transforming India (NITI) Aayog.

**Ms. Holly Clark**, Educational Strategist, EdTechTeam.

**Mr. Akihiko Katayama**, Director, PwC Hong Kong

**Usec. Monchito Ibrahim**, Undersecretary, DICT Philippines

**Mr. Simon Gee**, Managing Director, TechSoup Asia Pacific

**Mr. Gil-Hong Kim**, Senior Director concurrently Chief Sector Officer, Sustainable Development and Climate Change Department (SDCC) Sector Advisory Service Cluster (SDSC), Asian Development Bank

Moderator: **Mr. Sreenivas Narayanan**, Managing Director, Asia Society for Social Improvement and Sustainable Transformation (ASSIST)

4:30 p.m. – 4:45 p.m.    Closing Remarks



## DIGITAL STRATEGIES FOR DEVELOPMENT FORUM 2017

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