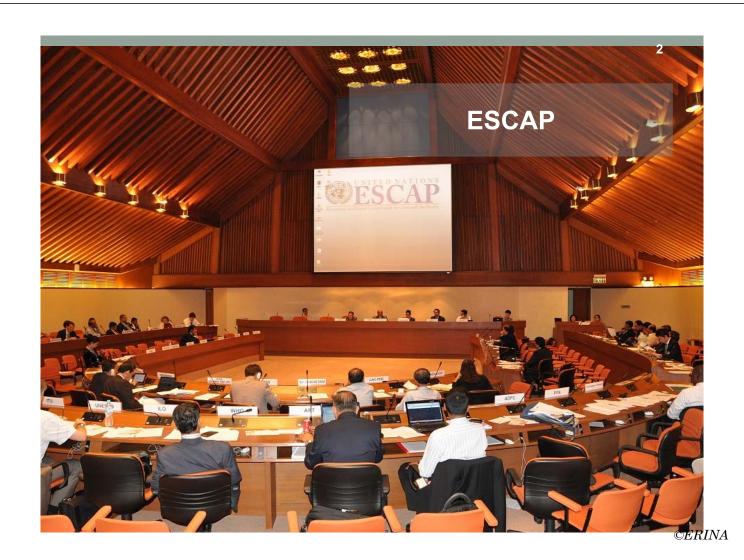


# CURRENT SITUATION AND EMERGING TRENDS OF ICT DEVELOPMENT TOWARD NORTHEAST ASIAN ECONOMIC INTEGRATION

ICT and Development Section
ICT and Disaster Risk Reduction Division
ESCAP
January 2018

IMPROVING REGIONAL BROADBAND CONNECTIVITY THROUGH THE ASIA-PACIFIC INFORMATION SUPERHIGHWAY



# United Nations Economic and Social Commission for Asia and the Pacific (ESCAP)

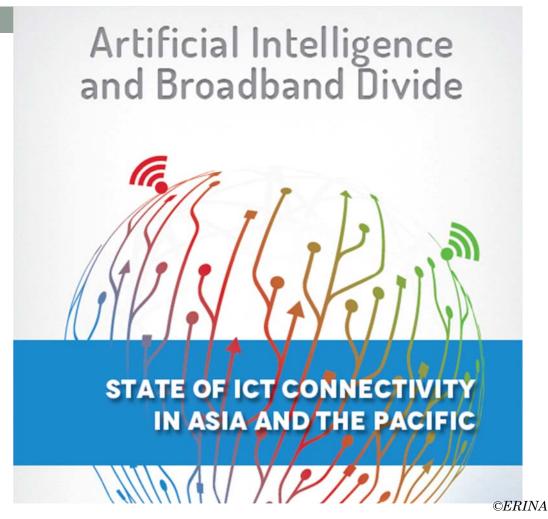
- Established 1947, HQ in Bangkok, Thailand
- Regional development arm of the United Nations for the Asia-Pacific region.
- 53 Member States and 9 Associate Members
- The region is home to 4.1 billion people, or two thirds of the world's population

For more information (http://www.unescap.org/)

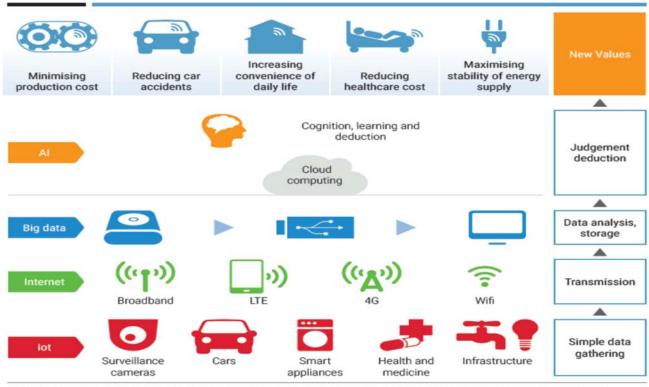
IMPROVING REGIONAL BROADBAND CONNECTIVITY THROUGH THE ASIA-PACIFIC INFORMATION SUPERHIGHWAY



ESCAP's Analytical Work



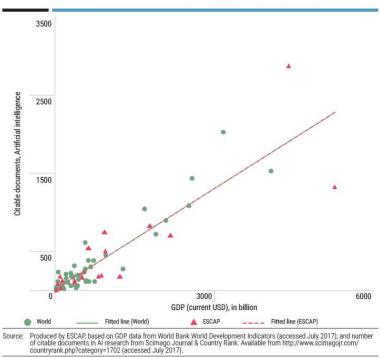
#### Artificial Intelligence (AI) Landscape



Korean Ministry of Science, ICT and Future Planning, "Mid- to Long-Term Master Plan in Preparation for the Intelligent Information Society: Managing the Fourth Industrial Revolution", undated. Available from http://www.msip.go.kr/dynamic/file/afieldfile/msse56/1352869/2017/07/20/Master%20Plan%20for%20the%20intelligent%20information%20society.pdf Source:

#### Artificial Intelligence (AI) and Economic Development

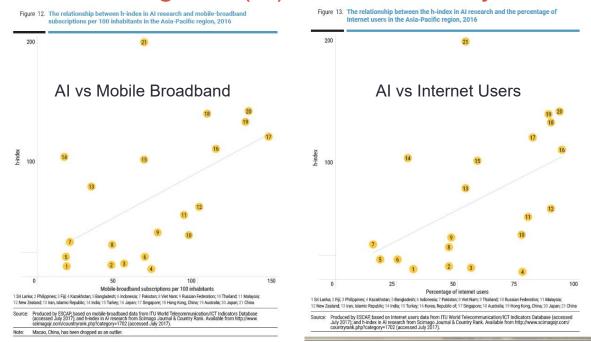
Figure 4. The relationship between AI research and size of the economy, 2016



 Positive relationship between Al and economic development (GDP) in Asia and the Pacific region.

Sample does not contain China and the US.

#### Artificial Intelligence (AI) and Connectivity



#### Positive correlation between AI and broadband connectivity

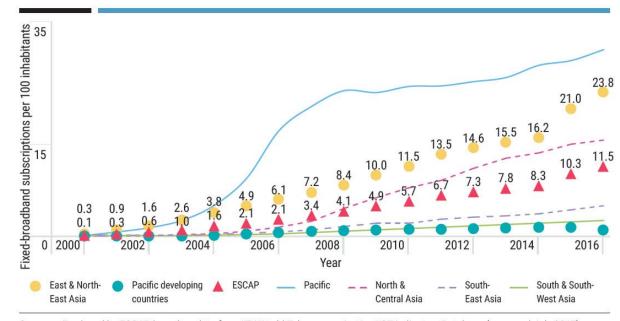
IMPROVING REGIONAL BROADBAND CONNECTIVITY THROUGH THE ASIA-PACIFIC INFORMATION SUPERHIGHWAY



1

#### Digital Divide by Fixed Broadband Subscriptions

Figure 19. Fixed-broadband subscriptions per 100 inhabitants by ESCAP subregion in 2016



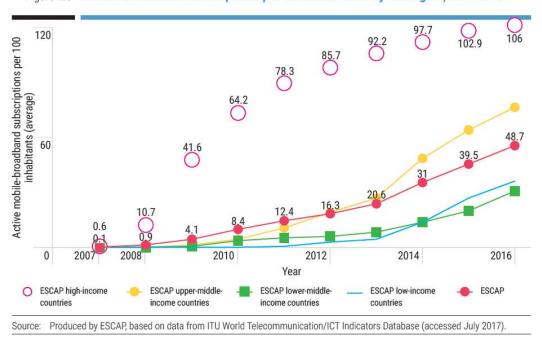
Source: Produced by ESCAP, based on data from ITU World Telecommunication/ICT Indicators Database (accessed July 2017).



9

#### Digital Divide by Mobile Broadband Subscriptions

Figure 28. Mobile-broadband subscriptions per 100 inhabitants by subregion, 2007-2016



IMPROVING REGIONAL BROADBAND CONNECTIVITY THROUGH THE

**ASIA-PACIFIC INFORMATION SUPERHIGHWAY** 



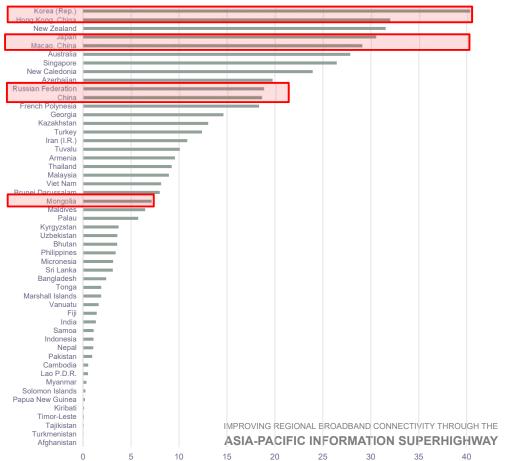
10

# Digital Divide in ESCAP

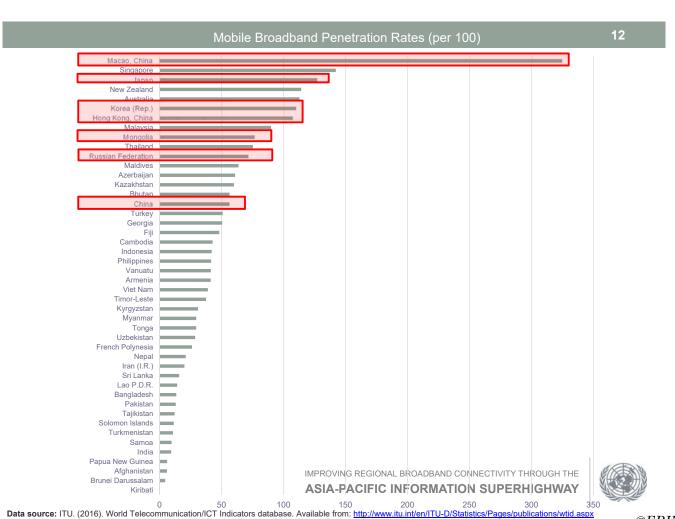
Comparison of standard deviation analysis of fixed- and mobile-broadband subscriptions by subregion, 2016		
Subregion	Fixed Broadband Standard Deviation	Mobile Broadband Standard Deviation
East and North-East Asia	Reduced	Reduced
South-East Asia	Reduced	Reduced (since 2013)
South and South-West Asia	Increased	Increased
North and Central Asia	Increased	Reduced (since 2014)
Pacific	Increased	Increased

Overall digital divide has been reduced but some regions are stuck at low adoption rates





0 5 10 15 20 25 30 35 40 45 Data source: ITU. (2016). World Telecommunication/ICT Indicators database. Available from: <a href="http://www.itu.int/en/ITU-D/Statistics/Pages/publications/wtid.aspx">http://www.itu.int/en/ITU-D/Statistics/Pages/publications/wtid.aspx</a>





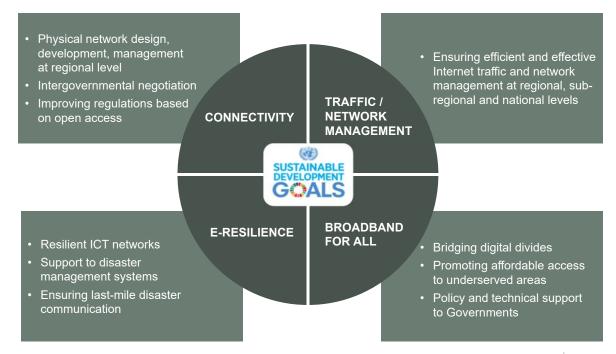


The Asia-Pacific Information Superhighway initiative aims to increase the availability and affordability of broadband Internet across Asia and the Pacific, by strengthening the underlying Internet infrastructure in the region.

- Promote terrestrial and submarine fibre-optic connectivity
- Provide a regional intergovernmental platform focusing on the missing fibre-optic links between ESCAP countries
- ESCAP resolution 73/6 = mandate

IMPROVING REGIONAL BROADBAND CONNECTIVITY THROUGH THE **ASIA-PACIFIC INFORMATION SUPERHIGHWAY** 

#### Four Pillars of AP-IS



IMPROVING REGIONAL BROADBAND CONNECTIVITY THROUGH THE ASIA-PACIFIC INFORMATION SUPERHIGHWAY



4

# Asia-Pacific ICT & DRR Gateway



Providing policymakers and relevant stakeholders with an accessible gateway containing a spectrum of resources with regard to Information and Communications Technology and Disaster Risk Reduction



## Navigate to the ICT & DRR Gateway

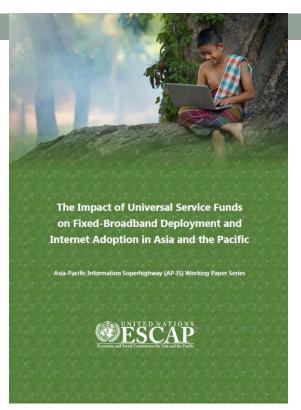


Access the Gateway on www.drrgateway.net



IMPROVING REGIONAL BROADBAND CONNECTIVITY THROUGH THE ASIA-PACIFIC INFORMATION SUPERHIGHWAY





### Thank you!

Email: escap-ids@un.org

Sources: ESCAP (2017) Impact of Universal Service Funds on Fixed-Broadband Deployment and Internet Adoption in Asia and the Pacific

