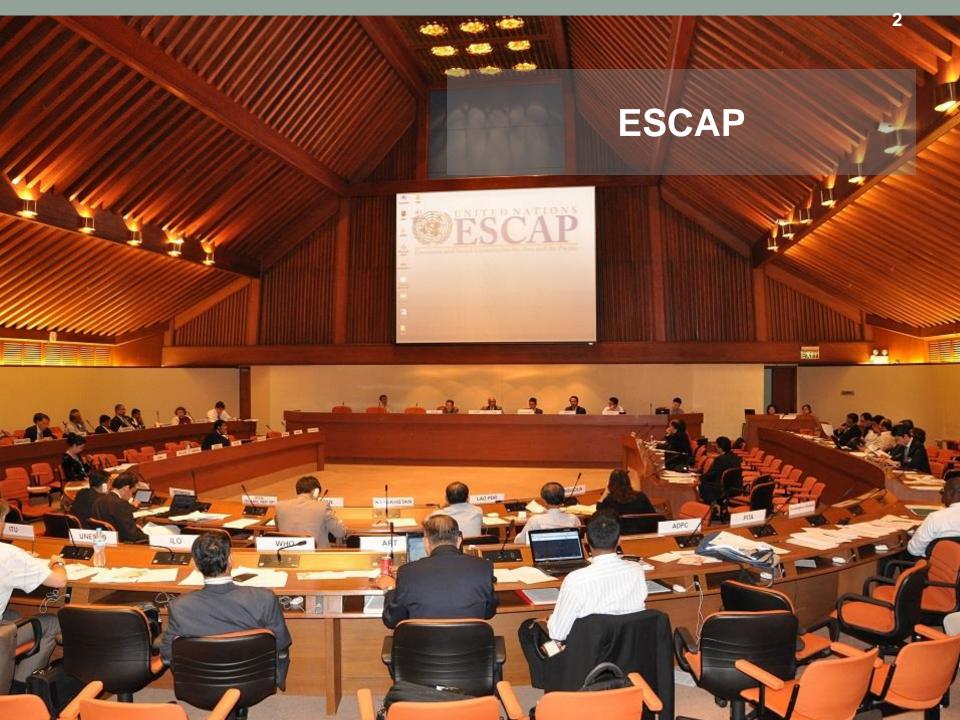


## ASIA-PACIFIC INFORMATION SUPERHIGHWAY FOR ELEVATING THAILAND'S DIGITAL GOVERNMENT

### Atsuko Okuda Chief, ICT and Development Section ICT and Disaster Risk Reduction Division ESCAP

### 1 November 2018







### **The United Nations System**



UN Principal Organs General Assembly	Main and other sessional committees     UI       Disarmament Commission     •       Human Rights Council     •       International Law Commission     UI       Standing committees and ad hoc bodies     UI	Funds and Programmes <sup>1</sup> NDP United Nations Development Programme UNCDF United Nations Capital Development Fund UNV United Nations Volunteers NEP <sup>8</sup> United Nations Environment Programme NFPA United Nations Population Fund N+HABITAT <sup>8</sup> United Nations Human Settlements	Disarmament Research UNITAR United Nations Institute for Training and Research UNSSC United Nations System Staff College	Other Entities TC International Trade Centre (UN/VTO) UNCTAD <sup>1,8</sup> United Nations Conference on Trade and Development UNHCR <sup>1</sup> Office of the United Nations High Commissioner for Refugees UNOPS United Nations Office for Project Services	Related Organizations CTBTO Preparatory Commission Preparatory Commission for the Comprehensive Nuclear-Test-Ban Treaty Organization IAEA <sup>1,3</sup> International Atomic Energy Agency ICC International Criminal Court ISA International Seabed Authority
Security Council		Programme NICEF United Nations Children's Fund /FP World Food Programme (UN/FAO) International Criminal Tribunal for the former Yug (ICTY) Mechanism for International Criminal Tribunals I Mulitary Staff Committee	poslavia Peacekeeping operations and political mis Sanctions committees (ad hoc)	Sions	ITLOS International Tribunal for the Law of the Sea OPCW <sup>3</sup> Organisation for the Prohibition of Chemical Weapons WTO <sup>1,4</sup> World Trade Organization Body
Economic and Social Council Secretariat	Functional Commissions     Crime Prevention and Criminal Justice     Narcotic Drugs     Population and Development     Science and Technology for Development     Status of Women     United Nations Forum on Forests     Departments and Offices     EOSG Executive Office of the Secretary-Genere	Regional Commissions <sup>®</sup> ECA Economic Commission for Africa ECE Economic Commission for Europe ECLAC Economic Commission for Latin America and the Caribbean ESCAP Economic and Social Commission for Asia and the Pacific ESCWA Economic and Social Commission for Western Asia	Committee for Development Policy Committee of Experts on Public Administration Committee on Non-Governmental Organizations Permanent Forum on Indigenous Issues UNAIDS Joint United Nations Programme on HIV/ UNGEGN United Nations Group of Experts on Geographical Names Research and Training UNICRI United Nations Interregional Crime and Justice Research Institute UNRISD United Nations Research Institute for S Development	IIO International Labour Organization IMF International Monetary Fund IMO International Maritime Organization ITU International Telecommunication Unic UNESCO United Nations Educational, Scientific and Cultural Organization	Development Organization of UNWTO World Tourism Organization UPU Universal Postal Union WHO World Intellectual Property Organization WMO World Meteorological Organization World Bank Group <sup>7</sup> • IBRD International Bank for Reconstruction
International Court of Justice Trusteeship Council®	<ul> <li>DESA Department of Economic and Social Affe</li> <li>DFS Department of Field Support</li> <li>DGACM Department for General Assembly and Conference Management</li> <li>DM Department of Management</li> <li>DPA Department of Political Affairs</li> <li>DPI Department of Safety and Security</li> <li>OCHA Office for the Coordination of Humanitarian Affairs</li> </ul>	airs OLA Office of Legal Affairs OSAA Office of the Special Adviser on Africa PBSO Peacebuilding Support Office SRSG/CAAC Office of the Special Representative of the Secretary General for Children and Armed Conflict SRSG/SVC Office of the Special	UNODA United Nations Office for Disarmament A UNODC <sup>1</sup> United Nations Office on Drugs and Crime UNOG United Nations Office of Geneva UN-OHRLLS Office of the High Representative for the Least Developed Countries, Landlocked Devel Countries and Small Island Developing States UNON United Nations Office at Nairobi UNOP <sup>2</sup> United Nations Office at Vienna	UN Office for Partnerships (UNOP) is the UN's foc Back and OPCV report to the Security Council and WTO has no reporting obligation to the GA, but c WTO has no reporting obligation to the GA, but c Specialized agencies are automous organization and CEB (inter-secretarial level). The Trusteeship Council suspanded operation on 1 N Territory, Became independent. International Centre for Settement of Investment Din not specialized agencies but are part of the World B The secretariats of fieles organs are part of the UN S	al point vis-a-vis the United Nations Foundation, Inc. d the GA. contributes on an dhoc basis to GA and Economic and Social Council pment issues. s whose work is coordinated through ECOSOC (intergovernmental level) lowember 1994, as an 1 October 1994 Polou, the last United Nations Trust putes (ICSID) and Multilateral Investment Guarantee Agency (MIGA) are tark Group in accordance with Articles 57 and 63 of the Charter. Secretariat.

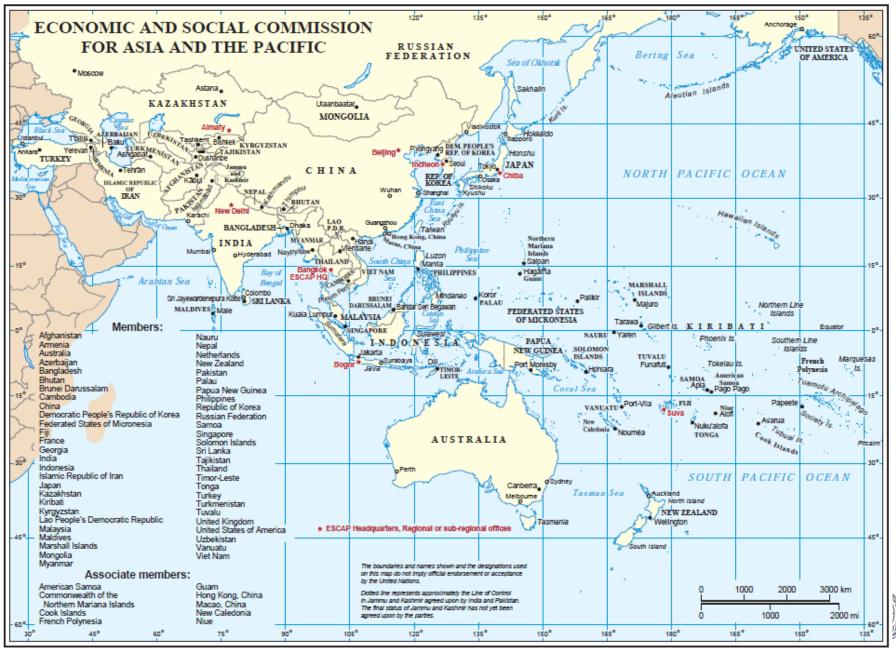


## United Nations Economic and Social Commission for Asia and the Pacific (ESCAP)

- 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/)





Map No. 3974 Rev. 18 UNITED NATIONS August 2014

## **WSIS C7 E-government**

# UNITED NATIONS E-GOVERNMENT SURVEY 2018

GEARING E-GOVERNMENT TO SUPPORT TRANSFORMATION TOWARDS SUSTAINABLE AND RESILIENT SOCIETIES



## **United Nations E-Government Survey**

The Survey **guides public policies and institutions** for digital transformation and innovation



It is the **only global research** that assesses the e-government development status of all 193 UN Member States

It bui from online

It **builds capacity and shares knowledge and good practices** from around the world in enhancing public governance and online public service delivery



It demonstrates the global progress in e-government development and serves as a **barometer of e-government trends, a benchmark tool and a development tool** 



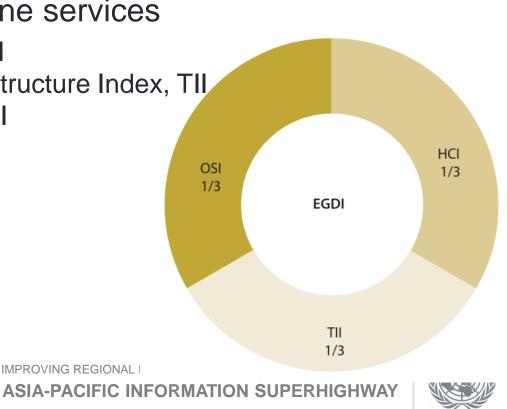
It helps draw attention from the academia and media to issues of digital government and related institutions

ASIA-PACIFIC INFORMATION SUPERHIGHWAY



# UN E-Gov Survey Methodology

- A country's ranking in the survey is determined by the EGDI - E-Government Development Index, which is a weighted average of three normalized scores on
- Scope and quality of online services
  - 1. Online Service Index, OSI
  - 2. Telecommunication Infrastructure Index, TII
  - 3. Human Capital Index, HCI



# Online Service Index (OSI)

- Composite normalized score derived on the basis on an Online Service Questionnaire.
- The total number of points scored by each country is normalized to a range of 0 to 1.
- Formula:

Online Service Index (Country "x") = 
$$\frac{(114-0)}{(153-0)} = 0.7451$$

 Questions surrounding "information about" something such as laws, policies, legislation or expenditures, "existence of" a feature such as social networking tools, "ability to" do something on the website i.e. run a transaction



# E-participation Index (EPI)

- Focusing on the government use of online services in providing information to its citizens or "e-information sharing", interacting with stakeholders or "e-consultation" and engaging in decisionmaking processes or "e-decision-making
- Formula:

E – Participation Index (Country "x") = 
$$\frac{(29 - 0)}{(38 - 0)} = 0.7632$$

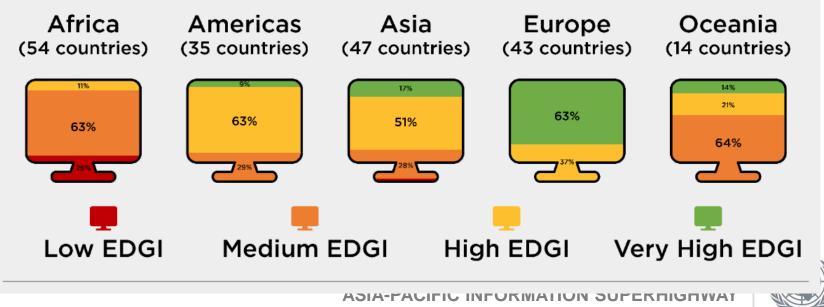
 Other updates included: (i) the availability of information on the citizens' rights to access government information; (ii) feedback from citizens concerning the improvement of online public services; and (iii) public opinion tools on policy deliberation through social media, online polls and online discussion forums.



## Regional Trends UNITED NATIONS E-GOVERNMENT SURVEY 2018



Percentage of countries grouped by EDGI levels in each region



Source: 2018 UN E-Government Survey

## Countries with Very High OSI In Asia

#	Country	Region	OSI Score 2018	OSI Rank 2018	EGDI Rank 2018
1	Denmark	Europe	1.0000	1	1
2	Singapore	Asia	0.9861	2	7
3	United States of America	Americas	0.9861	2	11
4	France	Europe	0.9792	4	9
5	Republic of Korea	Asia	0.9792	4	3
6	United Kingoom of Great Britain and Northern Ireland	Europe	0.9792	4	4
7	Australia	Oceania	0.9722	7	2
8	Finland	Europe	0.9653	8	6
9	India	Asia	0.9514	9	96
10	Italy	Europe	0.9514	9	24
11	Japan	Asia	0.9514	9	10
12	New Zealand	Oceania	0.9514	9	8
13	Norway	Europe	0.9514	9	14
14	Sweden	Europe	0.9444	14	5
15	United Arab Emirates	Asia	0.9444	14	21
16	Spain	Europe	0.9375	16	17
17	Canada	Americas	0.9306	17	23
18	Germany	Europe	0.9306	17	12
19	Netherlands	Europe	0.9306	17	13
20	Poland	Europe	0.9306	17	33
21	Portugal	Europe	0.9306	17	29
<b>C</b>	urse: 2018 LINE Covernment Sur				

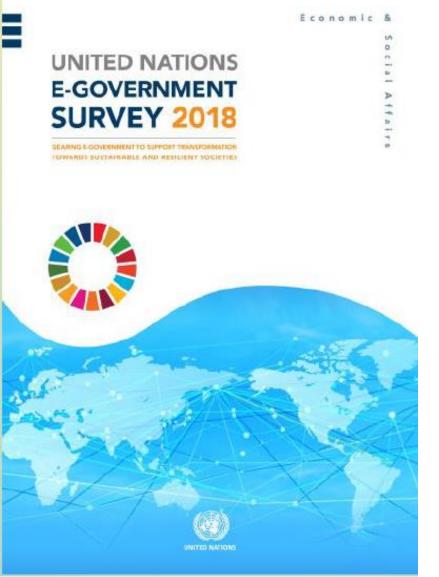
### Source: 2018 UN E-Government Survey

## 2018 Global Highlights

- E-government has grown rapidly over the past 17 years, since the first attempt of the United Nations to benchmark e-government in 2001.
- In the 2018 Survey, 40 countries score "very high", with e-government development index (EGDI) values in the range of 0.75 to 1.00, as compared to only 29 countries in 2016.
- Since 2014, all 193 Member States of the UN have delivered some form of online presence.
- Countries in the Low-EGDI level have dropped by a significant 50 per cent or 16 countries compared to 32 countries in 2016.



# Towards sustainability and resilience

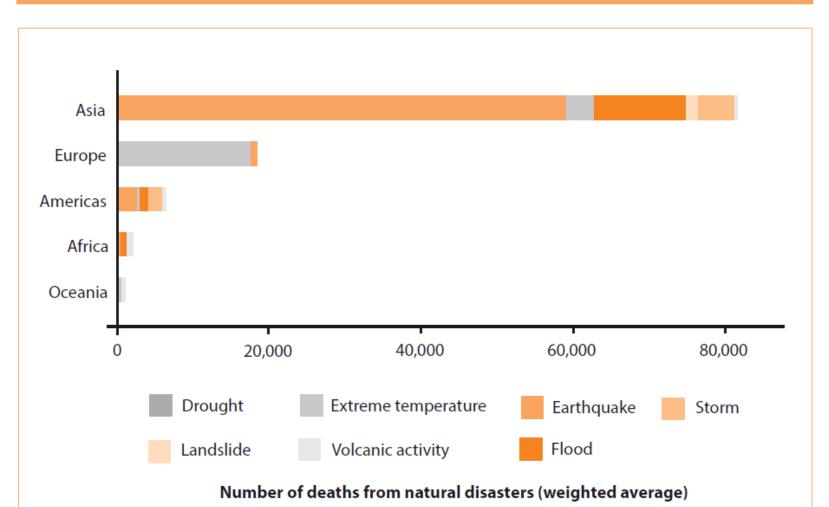


- Highlights the many and complex opportunities for deploying e-government to build resilient societies and sets out the necessary preconditions,
- Outlines ways in which egovernment can advance the implementation of the Sustainable Development Goals



## Natural disasters in Asia and the Pacific

Figure 3.2. Total number of deaths from natural disasters (2000 - 2017), by major regions





## E-resilience as part of Digital Government

- Resilience = "ability of a system, community or society exposed to hazards to resist, absorb, accommodate to and recover from the effects of a hazard in a timely and efficient manner, including through the preservation and restoration of its essential basic structures and functions"
- E-resilience = the use of ICTs during all phases of disaster risk management —prevention, reduction, preparedness, response and recovery — towards reducing risk and impact and maintaining the gains made towards sustainable development, including through egovernment.



#### DRM Phases

ICT Roles	Prevention	Reduction	Preparedness	Response	Recovery
Key Tasks	Improving risk information as basis for investments and business strategies / operations	Reducing the chance of disasters and mitigating the level of disruptions, damage & losses	Planning and getting adequately and appropriately ready to respond to any disaster eventuality, in a timely manner	Saving lives, preventing further damage and losses and meeting immediate needs during disasters	Being able to restore functions, recover assets and operations, and build back better
ICT for its own resilience (ICT Sector)	<ul> <li>Not to create/ increase risks</li> <li>Not to exacerbate existing risks</li> <li>Avoid and transfer risks</li> </ul>	<ul> <li>Address the underlying factors of risks</li> <li>Reduce vulnerability</li> <li>Increase capacity/ protection</li> <li>Undertake retrofitting</li> <li>Reduce exposure</li> <li>Invest in early warning</li> </ul>	<ul> <li>Plan System/network continuity</li> <li>Implement system redundancy/backup</li> <li>Ensure response readiness</li> <li>Conduct training and drills</li> <li>Set up emergency response and communication mechanisms</li> </ul>	<ul> <li>Gather data and information on any damage and disruptions to the ICT infrastructure, facilities and services</li> <li>Restore and repair services, data, facilities and equipment</li> <li>Activate emergency communication systems, such as satellite systems and mobile communication units</li> </ul>	<ul> <li>Conduct rapid assessment of damage and losses</li> <li>Assess needs for recovery</li> <li>Factor in additional investment to reduce future risks</li> </ul>
ICT for society's resilience (non-ICT Sectors)	<ul> <li>Make ICTs available to improve risk assessments</li> <li>ICT as crucial instruments for analysis</li> <li>ICT to enhance development/ business investment planning</li> </ul>	<ul> <li>Set up risk databases</li> <li>Introduce Geo- Referenced Information Systems (GIS) for decision making, planning and mitigation</li> <li>Expand ICT as a tool for disaster knowledge, innovation, education</li> <li>Enhance coordination via ICT</li> <li>Enhance risk observation, assessment and early warning by ICT</li> </ul>	<ul> <li>Plan and put in place emergency decision making tools (assessment, mapping, databases, planning) with ICT</li> <li>Set up and enhance emergency/humanitarian communication, application and coordination</li> <li>Position ICT as one of comon services to all sectors</li> </ul>	<ul> <li>Gather data and information on casualties, losses and damage for coordinated responses</li> <li>Request for satellite imagery of affected areas</li> <li>Activate data backup in case socioeconomic data is lost.</li> <li>Inform citizens of available emergency services and information via SMS, website, radio or PA</li> </ul>	<ul> <li>Enhance rapid assessments and detailed Post Disaster Needs Assessment (PDNA)</li> <li>Use ICT systems and applications to facilitate disaster response efforts</li> <li>Inform more robust future investment within the recovery framework</li> </ul>

## Al for e-resilience: Qatar

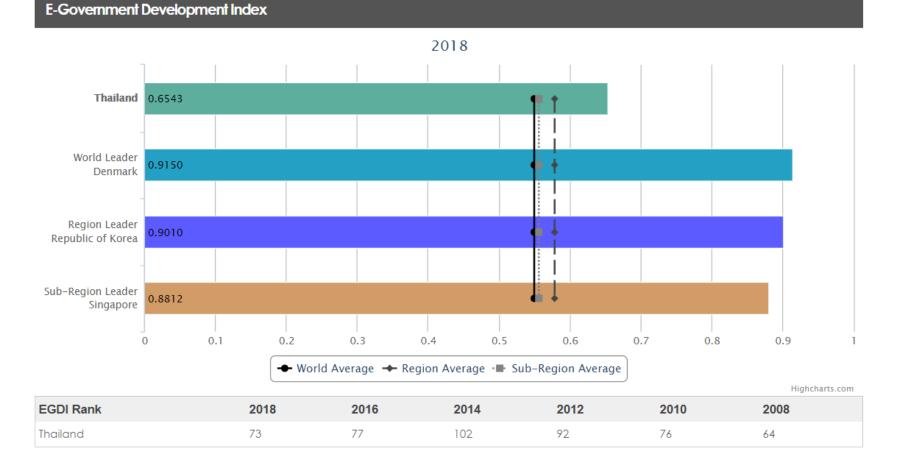
- Qatar's Artificial Intelligence for Disaster Response (AIDR) = a free and open source software that automatically collects and classifies social media feeds including tweets that are posted during humanitarian crises.
- AIDR maximises the use of machine intelligence and assists in making sense of significant amounts of data, video, images and texts on social media whenever disaster strikes.
- Once the collection starts and tweets begin to gather, different keywords and hashtags are created, such as #Medical Needs or #Shelter.



## **Thailand's E-Government Ranking**



# Thailand's E-Government Ranking



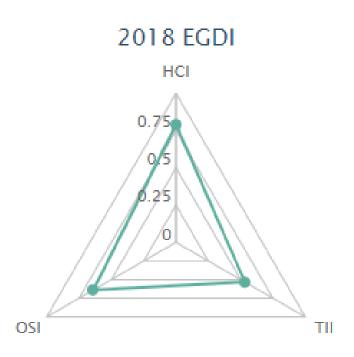
IMPROVING REGIONAL BROADBAND CONNECTIVITY THROUGH THE ASIA-PACIFIC INFORMATION SUPERHIGHWAY



Source: 2018 UN E-Government Survey

## Thailand's E-Government Development Index

Global Rank	73 <sup>rd</sup> / 193 countries
Regional Rank (Asia)	19 <sup>th</sup> / 47 countries
Sub-regional Rank (South-East Asia)	4 <sup>th</sup> / 12 countries
High EGDI	0.6543
<u>High</u> OSI <u>Very High</u> HCI <u>High</u> TII	0.6389 0.7903 0.5338
High EPI	0.6517



Note:

EGDI – E-Government Development Index

OSI - Online Service Index

TII - Telecommunication Infrastructure Index

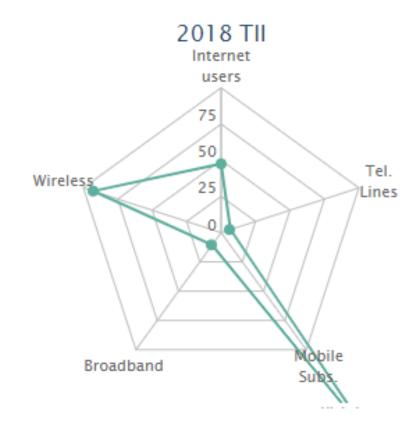
HCI - Human Capital Index

IMPROVING REGIONAL BROADBAND CONNECTIVITY THROUGH THE

ASIA-PACIFIC INFORMATION SUPERHIGHWAY



# Thailand's Telecommunication Infrastructure Index (TII)



Mobile subscriptions	173.78%
Wireless broadband subscriptions	92.9%
Internet Users	47.5%
fixed broadband subscriptions	10.48%
fixed telephone line subscriptions	6.83%

IMPROVING REGIONAL BROADBAND CONNECTIVITY THROUGH THE ASIA-PACIFIC INFORMATION SUPERHIGHWAY



Source: 2018 UN E-Government Survey

## Thailand's Online Service and E-Participation

- Thailand's online service index (0.6389), human capital index (0.7903) and e-participation index (0.6517) are in the same range as e-government index (0.6543), indicating that the demand/uptake of e-government services offered is comparably high.
- These numbers also indicate that upgrading Thailand's telecommunications infrastructure, especially the availability of fixed broadband (currently 68<sup>th</sup> at 0.5338) and expanding the online services offered to its citizens could potentially elevate the country's already high ranking, but most importantly, ensure that the country is in the best position to leverage on new technologies in implementing its development goals and in making these technology-based services available to everyone.

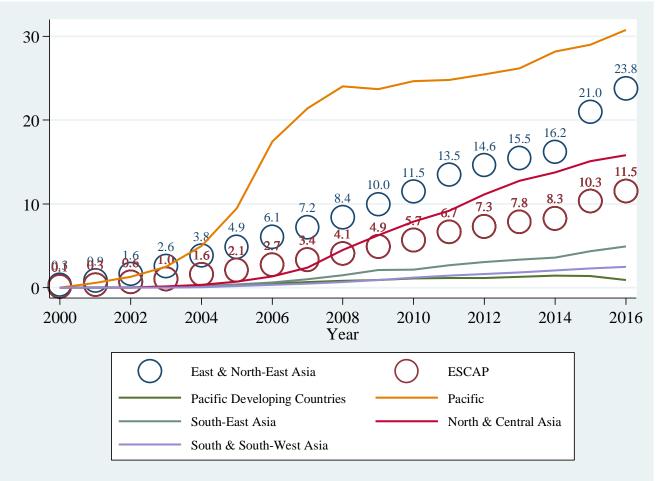


### Fixed Broadband

10/100/1000Base

### Challenges: Digital Divide in Asia and the Pacific

### Fixed-broadband subscriptions per 100, 2000-2016

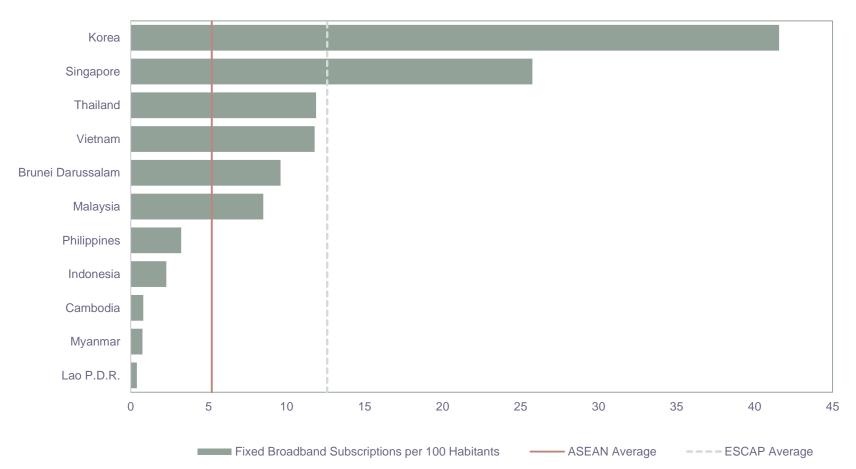


**Source**: Produced by ESCAP, based on data sourced from ITU World Telecommunications/ICT Indicators Database (accessed July 2017).



## Challenges: Fixed Broadband in SEA

### Fixed Broadband Subscription per 100 habitants, 2017



IMPROVING REGIONAL BROADBAND CONNECTIVITY THROUGH THE



ASIA-PACIFIC INFORMATION SUPERHIGHWAY

### Mobile Broadband Divide

### STATE OF ICT IN ASIA AND THE PACIFIC 2016

UNCOVERING THE WIDENING BROADBAND DIVIDE

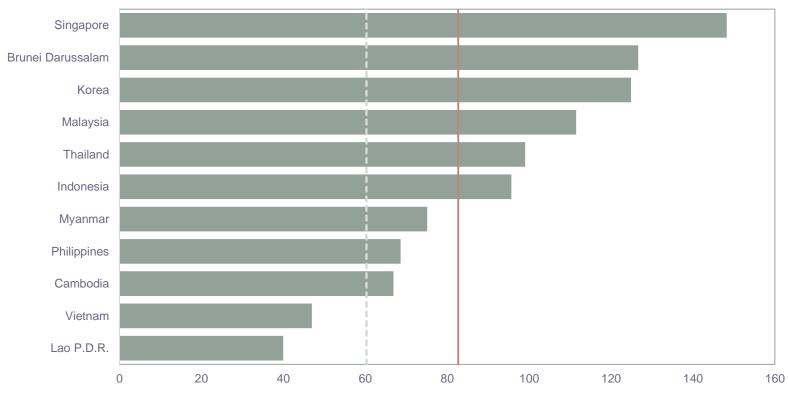




echnical Paper by the Information and communications Technology and lisaster Risk Reduction Division

## Challenges: Mobile Broadband in SEA

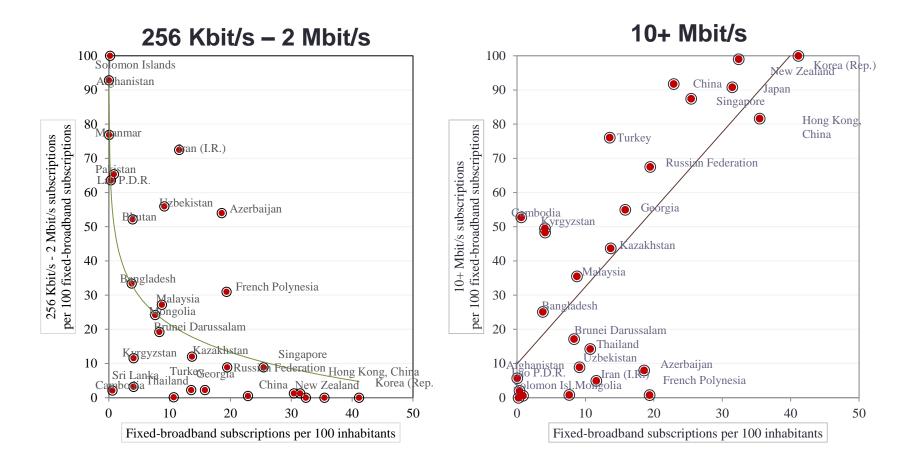
### Mobile Broadband Subscription per 100 habitants, 2017



Active Mobile Broadband Subscriptions per 100 Habitants ---- ASEAN Average ---- ESCAP Average



### Network quality and fixed-broadband adoption



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

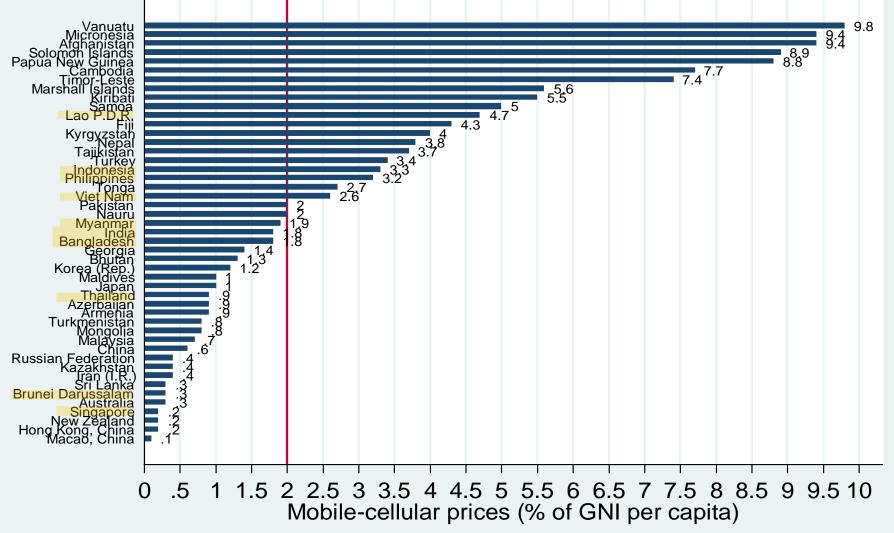
IMPROVING REGIONAL BROADBAND CONNECTIVITY THROUGH THE

ASIA-PACIFIC INFORMATION SUPERHIGHWAY



## Challenges: Affordability (Mobile)

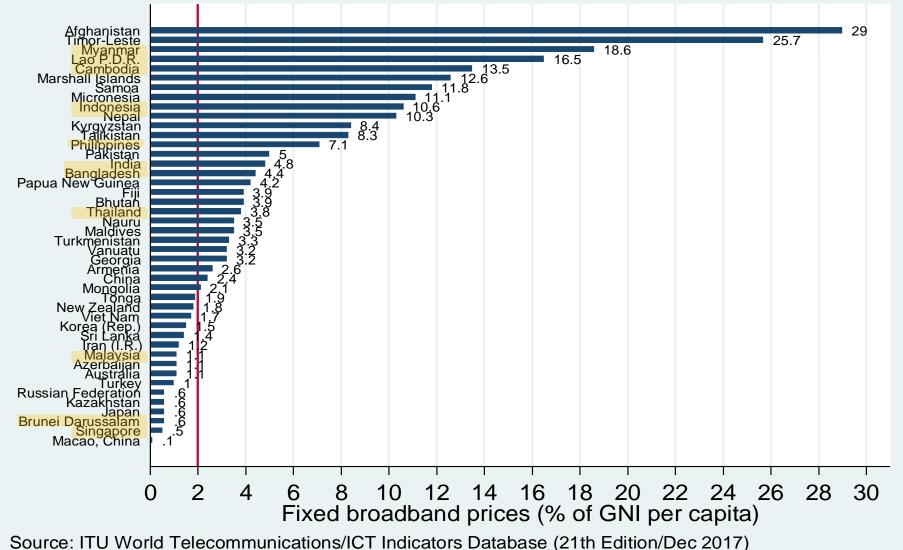
### Mobile-cellular prices (% of GNI per capita)



Source: ITU World Telecommunications/ICT Indicators Database (21th Edition/Dec 2017)

## Challenges: Affordability (Fixed)

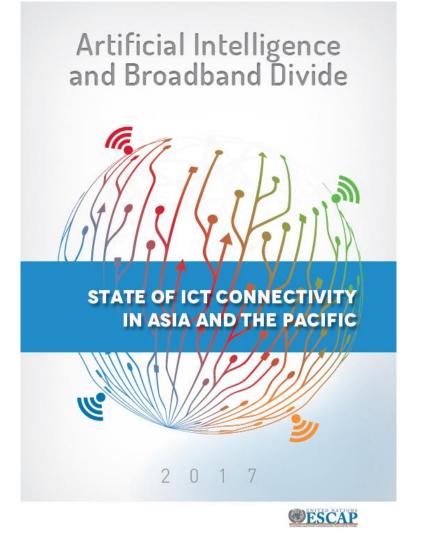
### Fixed-broadband prices (% of GNI per capita)





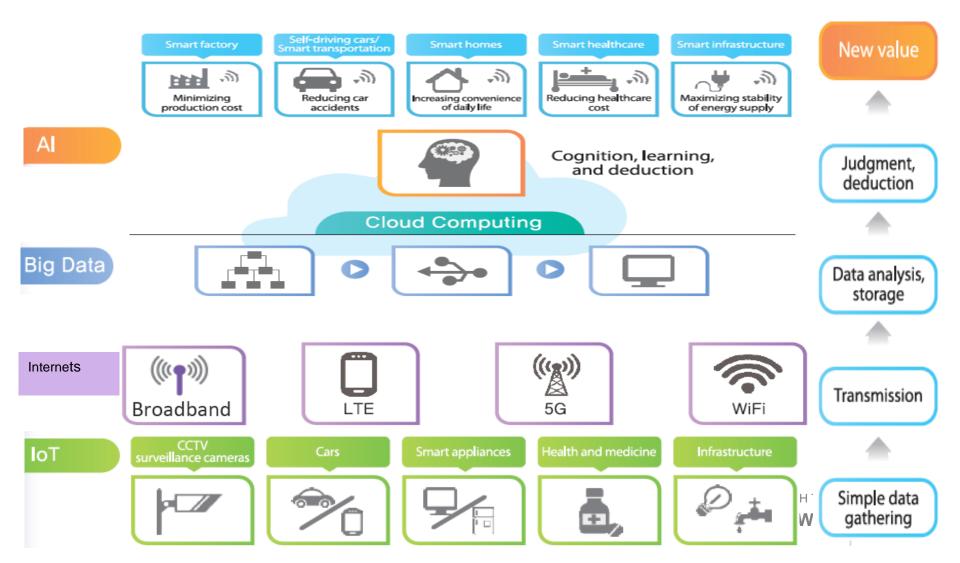
ESCAP's analytical work on ICT:

new technologies, financing mechanism, broadband infrastructure, co-deployment, international gateways, university education among others

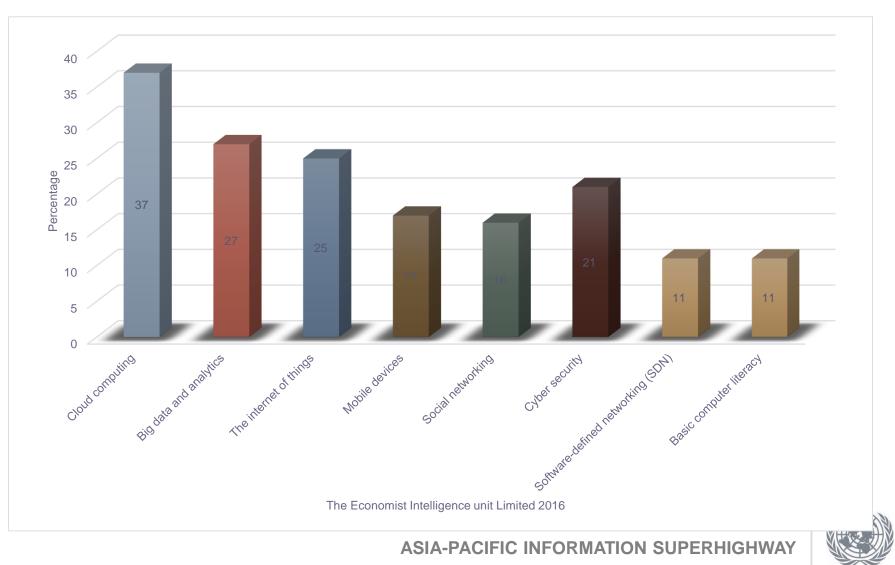




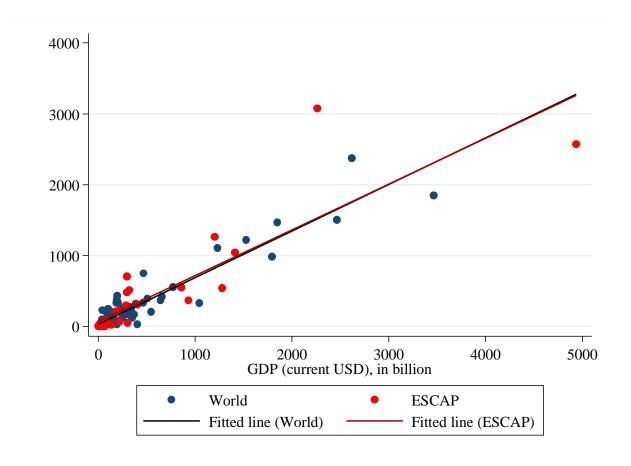
## New reality with Artificial Intelligence



# Most important technologies today

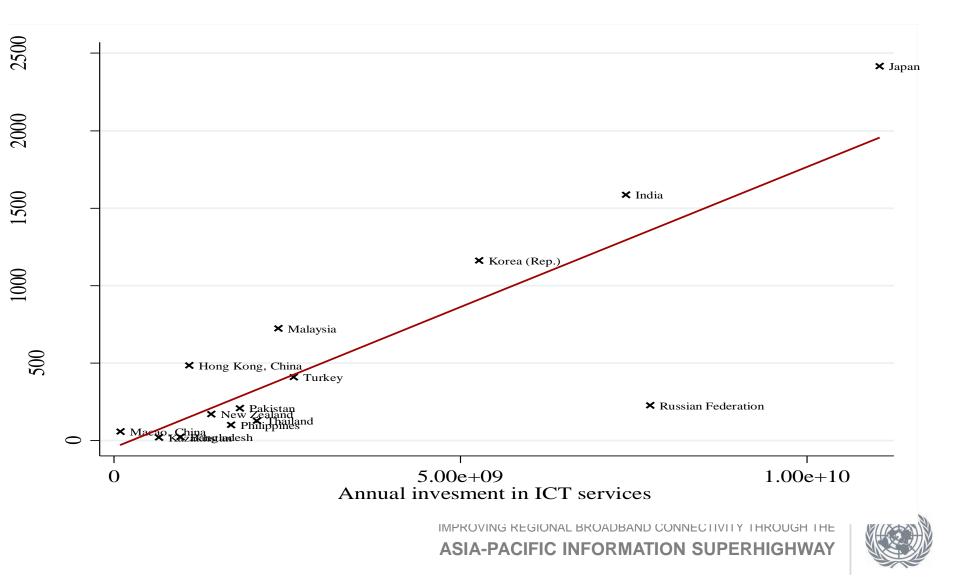


## Number of Artificial Intelligence research and size of the economy, 2015

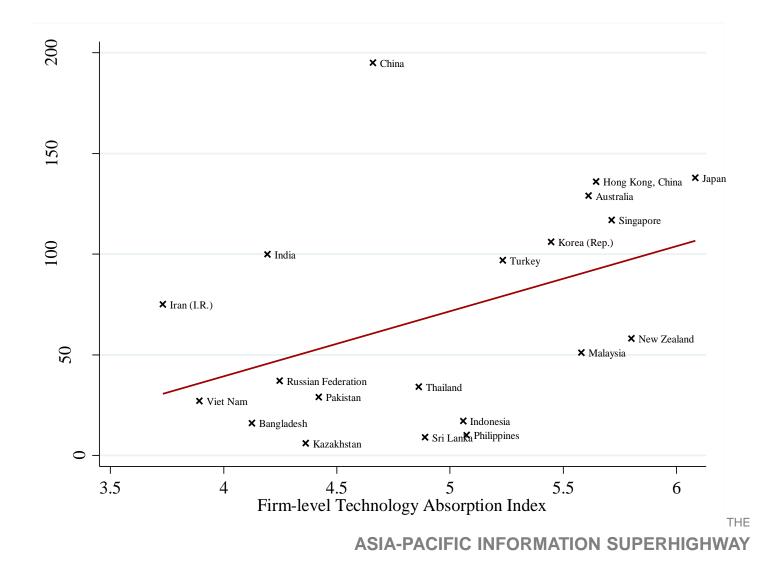




# Al research and ICT investment

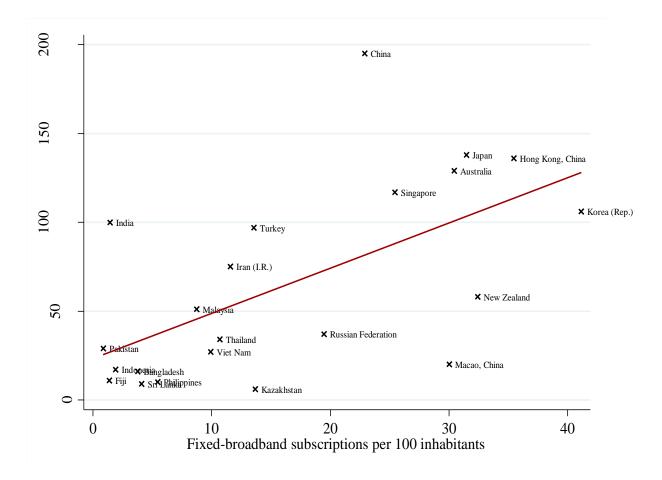


# Al research and Absorptive Capacity





# Al research and Fixed Broadband





## Asia-Pacific Information Superhighway



#### ASIA-PACIFIC INFORMATION SUPERHIGHWAY

亚太信息高速公路

АЗИАТСКО-ТИХООКЕАНСКАЯ ИНФОРМАЦИОННАЯ СУПЕРМАГИСТРАЛЬ

### L'AUTOROUTE ASIE-PACIFIQUE DE L'INFORMATION

INFO & PUBLICATIONS ON WWW.UNESCAP.ORG/APIS

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



# **ASIA-PACIFIC INFORMATION SUPERHIGHWAY (AP-IS)**

ASIA-PACIFIC INFORMATION SUPERHIGHWAY

亚太信息高速公路

АЗИАТСКО-ТИХООКЕАНСКАЯ ИНФОРМАЦИОННАЯ СУПЕРМАГИСТРАЛЬ

L'AUTOROUTE ASIE-PACIFIQUE DE L'INFORMATION



#### AP-IS PILLAR 1 Connectivity



Internet Traffic & Network Mgmt.



AP-IS PILLAR 3 E-Resilience

**AP-IS PILLAR 2** 



AP-IS PILLAR 4



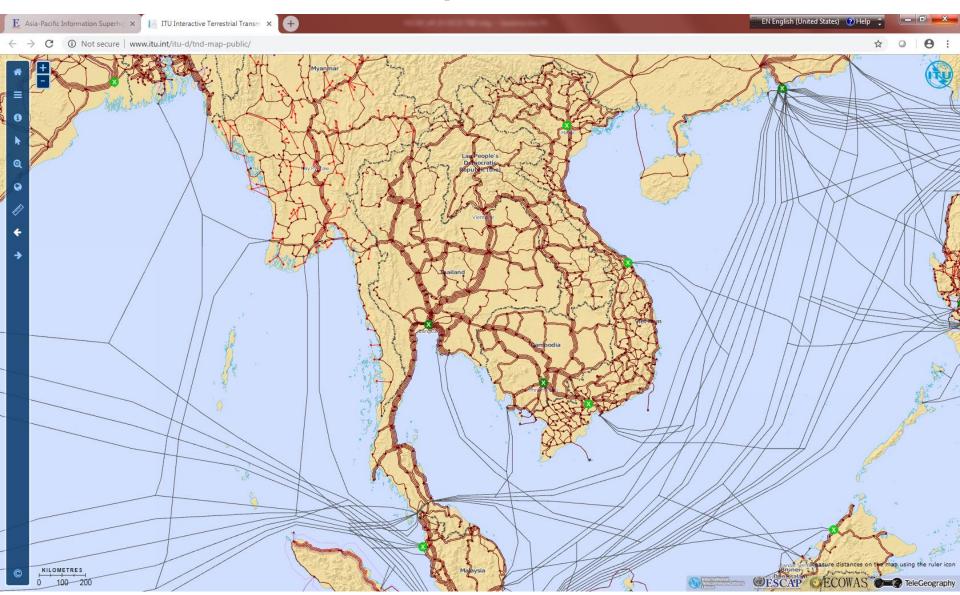
INFO AND PUBLICATIONS ON WWW.UNESCAP.ORG/APIS



# **AP-IS** Initiatives Strategic Initiatives 2016-2018

		A3	<b>N</b> .	0	43
AP-IS Initiatives 2016-2018					
1	Identification, coordination, deployment, expansion and integration of the regional backbone network				
2	Establish a sufficient number of IXPs at the national and subregional levels and set out common principles on Internet traffic exchange		*		
3	Regional social and economic studies				•••
4	Enhancing ICT infrastructure resilience			(((2)))	
5	Policy and regulations for leveraging existing infrastructure, technology and inclusive broadband initiatives			((~))	• <b>•</b> •
6	Capacity-building			((2)))	
7	AP-IS funding mechanism based on public-private partnerships			(((2)))	•••

# Transmission Map: Thailand



# Cybersecurity

 "Enhancing Cybersecurity for Industry 4.0 in Asia and the Pacific" report was prepared:

to increase awareness and understanding of cyberattacks and cybersecurity among policyand decision-makers, regulators, academia, private sector and CSOs with focus on Asia and the Pacific

#### This report provides:

(1) insights and understanding of the nature and magnitude of cyberattacks
(2) help to initiate policy discussions and dialogues for action to enhance cybersecurity
(3) support the implementation of the Asia-Pacific Information Superhighway (AP-IS)



Enhancing Cybersecurity for Industry 4.0 in Asia and the Pacific Asia-Pacific Information Superhighway (AP-IS) Working Paper Series

*CESCAP* 

The report is available at: <u>https://www.unescap.org/resources/enh</u> <u>ancing-cybersecurity-industry-40-asia-</u> <u>and-pacific</u>



# Co-deployment in Myanmar



A Study on Cost-Benefit Analysis of Fibre-Optic Co-Deployment with the Asian Highway Connectivity

Asia-Pacific Information Superhighway (AP-IS) Working Paper Series

@ESCAP

#### The report is available at:

https://www.unescap.org/resou rces/study-cost-benefitanalysis-fibre-optic-codeployment-asian-highwayconnectivity This report details: the cost-benefit analysis of broadband codeployment between the telecommunications and transport sectors and highlights methods for reducing time and costs

As a result of the comparative study in Myanmar, the codeployment of the broadband network (compared with separated deployment) has been estimated to save at least USD 7,379 per kilometre, and the percentage of cost savings has been calculated at 56.83 per cent

Results show that the telecommunications sector will benefit from significant cost savings and avoid the duplication of civil engineering works in the deployment of a broadband network







Asian and Pacific Training Centre For Information and Communications Technology for Development

### **MISSION**



# To build the ICT human and institutional capacity of ESCAP member States





### TARGET AUDIENCE AND FLAGSHIP PROGRAMMES

**Policy Makers** 

Civil Servants Central Government Local Government Civil Service Organizations Training Institutions Women Entrepreneurs

Women Entrepreneurs Women Associations Local Women Communities Gender-Related Agencies

#### **Future Leaders**

Students and Youth Institutions of Higher Learning

Academy of ICT Essentials for Government Leaders Women ICT Frontier Initiative (WIFI)

Primer Series on ICTD for Youth

ASIA-PACIFIC INFORMATION SUPERHIGHWAY

OADBAND CONNE



# ACADEMY OF ICT ESSENTIALS FOR GOVERNMENT LEADERS



### **UTILIZATION OF THE ACADEMY PROGRAMME**



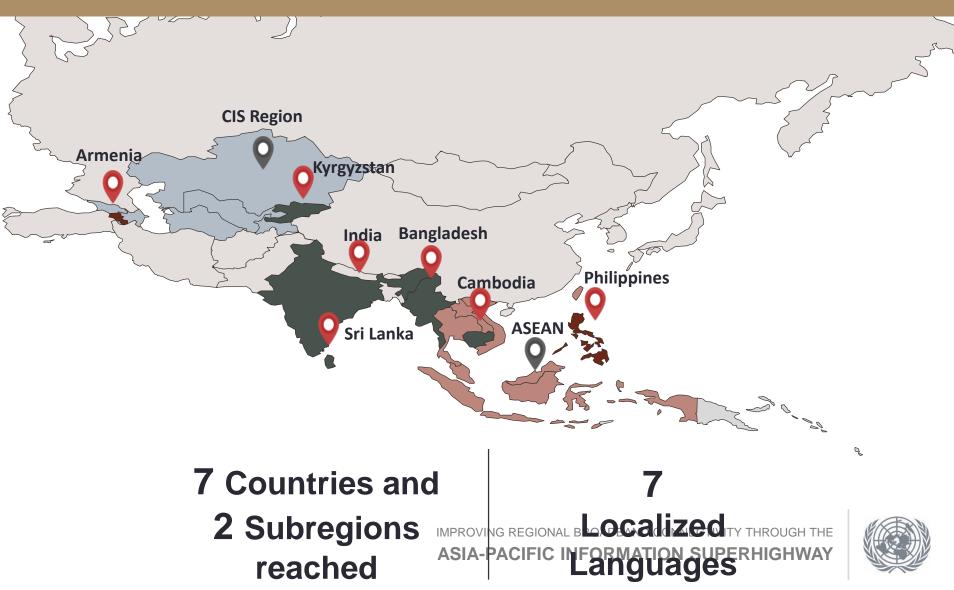
# **WOMEN ICT FRONTIER INITIATIVE**



# Promote Women Entrepreneurship through ICT Capacity Development



# UTILIZATION OF THE WIFI PROGRAMME



### **PRIMER SERIES ON ICTD FOR YOUTH**

Impart key knowledge of ICT for Development (ICTD) to students and youth



An Introduction to ICTD Project Management and ICTD ICT for ICT, Climate Social Disaster Risk ROAD change; Tand ROUGH Media for Management FORMATION CHARGE Developme Growth nt

### UTILIZATION IN ASIA AND THE PACIFIC

### Colleges and universities in the region are using the Primer Series as learning resources

- Build Bright University (Cambodia)
- Institute of Information Technology Bangalore (India)
- International Information Technology University (Kazakhstan)
- Kathmandu University (Nepal)
- Kyrgyz State Technical University (Kyrgyzstan)
- Royal University of Phnom Penh
   (Cambodia)
- Satbayev University (Kazakhstan)

- Tashkent University of Information Technologies (Uzbekistan)
- Universitas Gadjah Mada (Indonesia)
- University of Indonesia (Indonesia)
- University of Hyderabad (India)
  - University of Moratuwa (Sri Lanka)
  - University of Technology, Yadanabon Cyber City (Myanmar)



# **DELIVERY CHANNELS**

## e-Learning Platform (AVA)



# Knowledge Repository PFatfolliff

# WIFI Resource (CEnterk)

#### Latest Resources

#### view all resources



Capacity Building in a Changing ICT Environment This publication puts together scholarly articles with a focus on the human and institutional aspects of capacity building in the telecommunications/ICT sector. It covers a wide range of topics that may affect people and their skills development, such as the internet of Things (ICT), big data, telecommunication regulatory issues, smart cites/societies, digital competencies, open source learning and intellectual property rights, etc. The publication seeks to provide a body of knowledge that will facilitate academic research and innovation

exploring the linkages between emerging ICT issues and human and institutional capacity building Read More...

#### UN e-government Survey 2018



The UNE-Government Survey report looks at how e-government can facilitate integrated policies and services across the three dimensions of suralianable development, and is produced every two years by the UN Department of Economics and Social Adrais. It is the only global taport that assesses the egovernment development status of the 193 UN Member States. It serves as a tool for countries to learn from each other, identify areas of strength and challenges in e-government and shape their policies and strategies in this

area. It is also aimed at facilitating discussions of intergovernmental bodies, including the United Nations General Assembly and the Economic and Social Council, on issues related to egovernment and development and to the critical role of ICT in development.



Women ICT Frontier Initiative

N-MCCE tam to promote exempti entrance entrancement of the indust and the facility through tapacity development. It will enhance capabilities of some entropinesurus so that they is enterprised as to become more productive, thereby enclosing their families and proving effect of family members and communities. The project will create ST enable on one more productive, and and beyong contributes to community development as well as the local and national economy.



<u>https://e-</u> learning.unapcict.org/

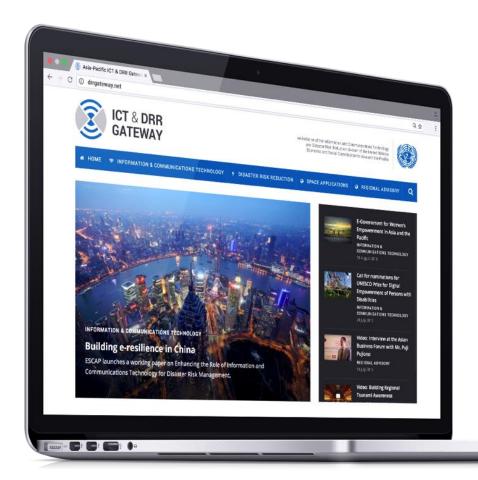
#### http://unapcict.org/ecohub/

#### http://wifiinfobank.unapcict.o





# 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







# Thank you!

Email: escap-ids@un.org

