

ASIA ECONOMIC INTEGRATION REPORT 2021: MAKING DIGITAL PLATFORMS WORK FOR ASIA

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ADB-MEF Webinar

DIGITAL PLATFORMS AND CAMBODIA'S POST-COVID-19 ECONOMIC RECOVERY

28 May 2021

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Digital platforms transform marketplaces

Google









Phnom Penh
Siem Reap
Battambang
Sihanoukville
Kampot
Poipet



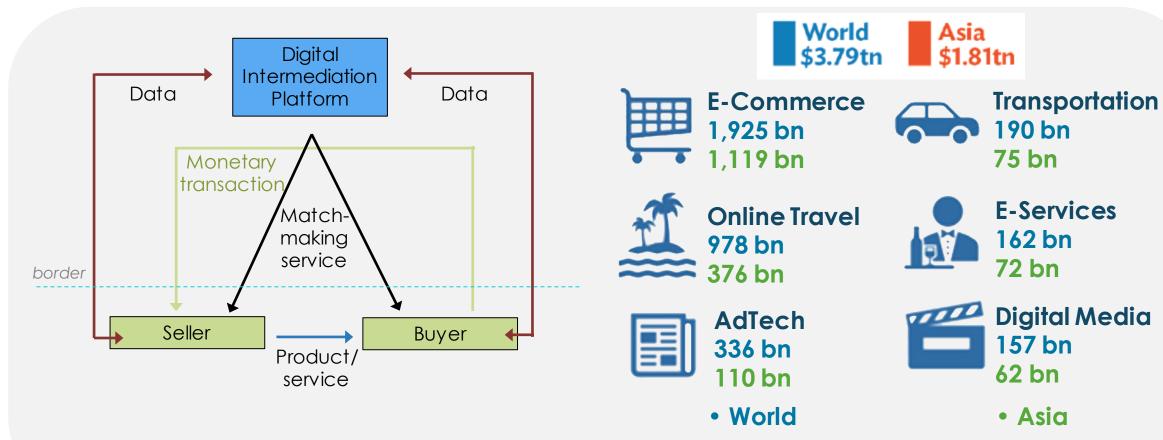








Digital economy engine of Asia's growth



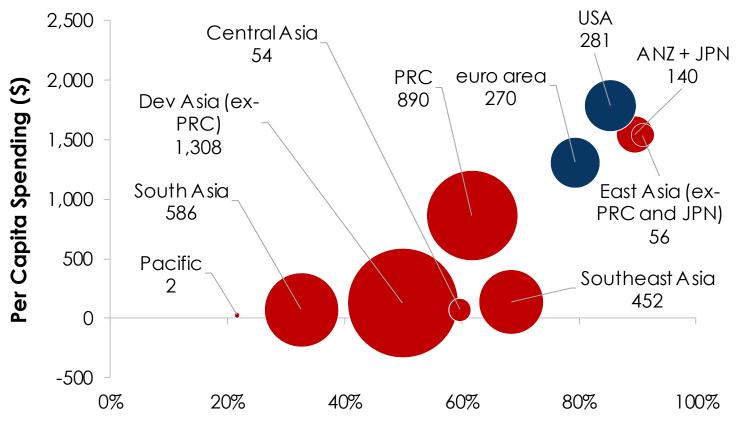
Source: OECD, WTO, and IMF (2020). Handbook on Measuring Digital Trade. p. 123.

Source: ADB staff estimates based on data from Statista. Figures are in US dollars.



Asia a key player in global digital platform market

Digital Market Users, 2019 (million)







ANZ + Japan = Australia, New Zealand, and Japan; PRC = People's Republic of China; USA=United States of America.

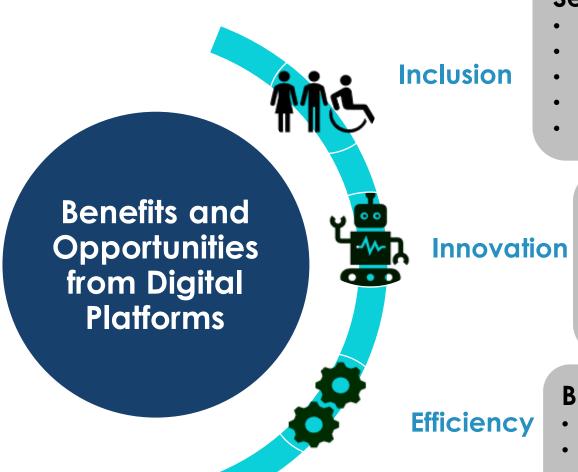
Note: Source economies for Developing Asia (Dev Asia) excluding PRC are: Armenia, Azerbaijan, Bangladesh, Bhutan, Brunei Darussalam, Cambodia, Fiji, Georgia; Hong Kong, China; India, Indonesia, Kazakhstan, the Republic of Korea, Kyrgyz

Republic, the Lao People's Democratic Republic, Malaysia, Mongolia, Myanmar, Nepal, Pakistan, Papua New Guinea, the Philippines, Singapore, Sri Lanka, Tajikistan, Thailand, Timor-Leste, Turkmenistan, Uzbekistan, and Viet Nam. Source economies for the eurozone are Austria, Belgium, Cyprus, Estonia, Finland, France, Germany, Greece, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Portugal, Slovakia, Slovenia, and Spain. The raw data are from Statista and the World Bank.

Users refer to the AdTech-exposed internet users.

Source: ADB est imates.

Digital platforms spread benefits in many ways



Sellers:

- Search and information access
- Larger market reach
- Greater households, MSMEs participation
- Flexible arrangements
- Use of spare assets

Platforms:

- Build technology-enabled networks
- Do matching and services on-demand
- Skip intermediaries & trade barriers
- Facilitates payment and distribution
- Service or product rating and analytics

Buyers:

- Search and information access
- Wider choices
- Convenience
- Greater customization



Source: ADB staff.

ASIAN ECONOMIC INTEGRATION REPORT 2021

Digital transformation to boost growth, trade, and employment

Impact of digital platform growth on GDP, trade, and employment (2021-2025)

Economy	GI	DP	Total	Trade	Employment		
	Average gains	Average annual	Average gains	Average annual	Average gains	Average annua	
	from same-year	gains, % of 2020	from same-year	gains, % of 2020	from same-year	gains, % of 2020	
	baseline, 2021-	baseline	baseline, 2021-	baseline	baseline, 2021-	baseline	
	2025, Bn \$		2025, Bn \$		2025, Mn		
World	4,282.9	5.4	2,370.1	5.5	139.6	5.0	
Asia and the Pacific	1,729.0	6.1	1,017.0	6.8	65.5	3.9	
Australia and New Zealand	84.1	5.9	26.3	4.0	0.6	7.0	
Central Asia	46.1	11.5	23.5	7.7	2.3	7.1	
Azerbaijan	5.4	11.5	6.7	11.1	0.3	7.2	
Kazakhstan	14.8	8.1	8.6	6.2	0.4	5.3	
East Asia ex PRC and JPN	134.8	5.9	123.0	5.0	1.5	5.5	
Rep. of Korea	89.5	6.5	70.9	5.2	1.0	6.3	
PRC	448.1	3.8	239.9	4.6	14.3	2.2	
Japan	399.3	7.9	223.6	13.8	3.7	8.1	
Southeast Asia	286.6	8.4	248.6	8.0	18.0	6.2	
Indonesia	136.3	8.8	44.6	10.0	10.0	8.3	
Malaysia	28.1	8.8	45.5	9.2	1.0	8.2	
Philippines	37.6	10.1	32.2	14.7	2.2	5.9	
Singapore	19.2	6.2	16.1	2.3	0.1	8.0	
Thailand	21.8	4.9	35.9	6.3	0.8	2.3	
Viet Nam	27.5	10.9	59.9	11.0	2.6	5.3	
South Asia	315.1	7.7	119.1	8.6	24.2	4.0	
Bangladesh	14.4	5.4	5.4	6.1	2.4	3.8	
India	261.1	7.9	89.4	8.4	16.7	3.8	
Pakistan	30.3	8.9	17.3	11.8	3.9	5.9	
Sri Lanka	5.4	6.0	5.2	11.7	0.2	2.8	
Pacific	14.9	26.8	13.0	15.6	0.9	26.3	
G2	1,443.6	4.4	773.4	4.2	11.6	5.0	
USA	566.7	3.3	104.6	2.2	2.6	2.9	
EU-28	876.9	5.5	668.7	5.0	9.0	6.2	
Rest of the World	1,110.3	6.4	579.8	5.8	62.5	7.3	

Note: The calculations are based on the Global Trade Analysis Project database. Southeast Asia includes Timor-Leste. The Pacific subregion includes economies that are not ADB members. This is due to the aggregation of the Pacific subregion in project data.

Source: Narayanan and Villafuerte (forthcoming).



Digital platforms bring risks and challenges

- Digital divide leads to rising inequality
- Digital platforms highly concentrated; risk of excessive market power for platform giants
- Digital platforms dramatically shift traditional labor relations; platform workers left with no social protection
- Intensive data collection raises data privacy and security issues; potential identity theft and cybercrime
- Base erosion and profit shifting (BEPS) a rising concern



Asia's digital readiness varies considerable

2020 Digital Platform Penetration Index and Network Readiness Subindexes

		9										
		Network Readiness Main Sub-indexes						Network Readiness Main Sub-indexes				
Economy	DPP Index	Technology	People	Governance	Impact	Economy	DPP Index		Technology	People	Governance	Impact
PRC	2.5847					Fiji	0.4579	n.d.				
Korea, Rep. of	2.5283					Cambodia	0.4416					
Australia	2.1010					Tajikistan	0.4155					
Hong Kong, China	2.0323					Bangladesh	0.3928					
New Zealand	1.8795					Myanmar	0.3909	n.d.				
Japan	1.7794					Bhutan	0.3119	n.d.				
Singapore	1.7644					Mongolia	0.2824					
Malaysia	1.1008					Lao PDR	0.2523					
India	1.0220					Timor-Leste	0.2486	n.d.				
Viet Nam	0.9429					Papua New Guinea	0.2111	n.d.				
Indonesia	0.9190					Turkmenistan	0.1565	n.d.				
Brunei Darussalam	0.8322	n.d.										
Philippines	0.8221					Lao PDR = Lao Democratic People's Republic, n.d. = no available data, PRC = People's Republic of						c of
Armenia	0.8077					China. Notes:						
Pakistan	0.7960											
Kazakhstan	0.7929					 (i) Maximum and minimum values are set at 0 and 100, , following the scale in Dutta and Lanvin (2020). Low to high value spectrum: (ii) The Technology sub-index captures access, content, and future technologies. (iii) The People sub-index captures the readiness and aptitude of individuals, businesses, and governments. (iv) The Governance sub-index captures trust, regulation, and inclusion. (v) The Impact sub-index captures economic value, quality of life, and contribution to sustainable development goals. (vi) The specific indicators used and the methodology are laid out in Appendices 1 to 3 of Dutta and Lanvin (2020), https://networkreadinessindex.org/wp-content/uploads/2020/11/NRI-2020-V8_28-11- 						v in
Thailand	0.7902											
Azerbaijan	0.7833											
Sri Lanka	0.6501											
Georgia	0.5751											
Kyrgyz Republic	0.5018											able
Uzbekistan	0.4840	n.d.										
Nepal	0.4619											
						2020.pdf.	ips.//neiworkie	damess	index.org/wp-co	omem/upiodas,	1 ZUZU/ 1 1/1NK1-ZUZU-V8	0_20-11-



Source: Asian Development Bank estimates and Dutta and Lanvin (2020).

6 key priorities to unlock the digital potential



Affordability and access to ICT In LDCs only 19% of population is online (2019)



Digital skills/literacy training through smart devices and e-learning hubs

149 million new jobs in technical areas will be needed by 2025



E-payment availability and options

90% of initiatives to combat informality linked to digital payments



Cooperation for better, effective, more efficient taxation policies and options

59% of ADB member countries joined the OECD/G20 Inclusive Framework to tackle tax and digitalization



Logistics and delivery infrastructure

In maritime trade, Asia accounts for 41% of goods loaded and 62% of good unloaded



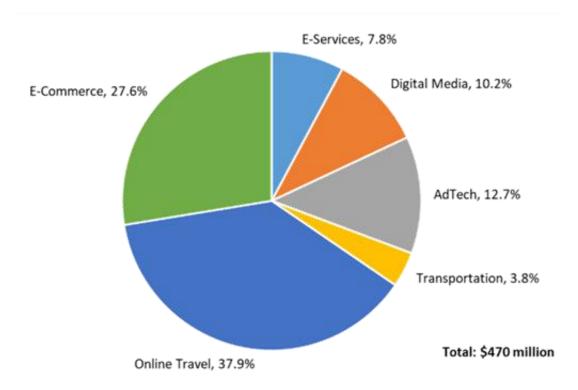
Laws, rules, and regulations for data privacy and cybersecurity

76.1% of respondents to the Global Risk Report Survey identify cyber-security as the top 5 global risks for 2020



Digital platforms critical for Cambodia

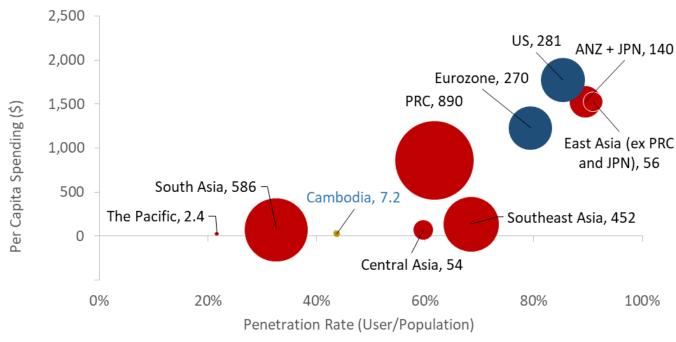
Digital Revenue in Cambodia, 2019 (% by sector)



Source: ADB calculations using data from Statista (2020a, 2020b).

ADB

Digital Market Users, 2019 (million)

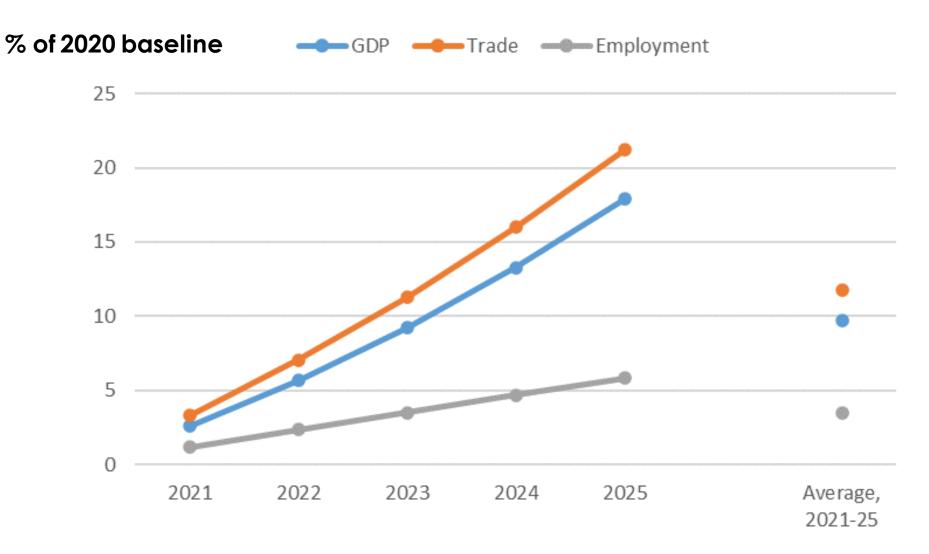


ANZ+JPN = Australia, New Zealand, and Japan; Dev Asia = dev eloping Asia; PRC = People's Republic of China; US = United States.

Notes: South Asia includes Bangladesh, Bhutan, India, Nepal, Pakistan and Sri Lanka. Southeast Asia includes Brunei Darussalam, Cambodia, Indonesia, the Lao People's Democratic Republic, Malaysia, Myanmar, the Philippines, Singapore, Thailand and Viet Nam. Pacific includes Fiji, Papua New Guinea, and Timor-Leste. Euro area includes Austria, Belgium, Cyprus, Estonia, Finland, France, Germany, Greece, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Portugal, Slovakia, Slovenia, and Spain. Users refer to the AdTech-exposed internet users.

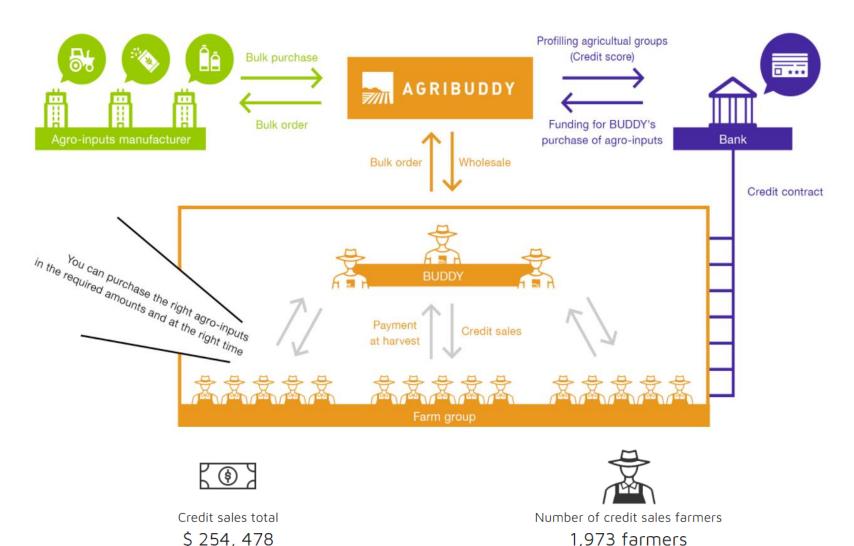
Sources: ADB calculations using data from Statista (2020a, 2020b) and World Bank. World Development Indicators. https://databank.worldbank.org/source/worlddevelopmentindicators (accessed July 2020).

Large effect from digital sector expansion in Cambodia





AGRIBUDDY improves credit scoring in agriculture





KIU helps SME financing in Greater Mekong Subregion and Cambodia



ADB supports KIU (an IT service company in Viet Nam) and partner banks to provide SME financing based on **Al-enabled credit scoring**.

- 8,000+ SME clients by end-March 2018, with loans up to \$50,000 per client.
- ADB provided \$100 million SME credit line to a KIU partner bank in Viet Nam. KIU also has partner banks in Cambodia, Myanmar, and Bangladesh.



Digital Platforms contribute to SDGs









E-commerce—Support women as entrepreneurs, encourage the formalization and growth of MSMEs, link rural producers to urban consumers, connect MSMEs to global markets.

Labor—Enable flexible work arrangements, create online jobs

Health and Education—Allow medical consultations conducted

available globally for different skill levels and abilities,

additional income from local on-demand jobs

projects, medical needs, etc.





















high quality courses and instructors through MOOCs

Financial services—Provide access to the unbanked so they can receive payments, crowdfund micro enterprises, social

online, access to specialists not available locally, access to









Transport and Travel—Promote ride-hailing to multi-service platforms that both households and MSMEs use as an extra source of income from underutilized assets





Big data improve the quality of policymaking

COVID-19 revealed fundamental constraints of conventional data on households and businesses (Chetty, et al., 2020):

- Available only at a low frequency with a significant time lag
- Cannot be used to assess granular variations across geographies or subgroups

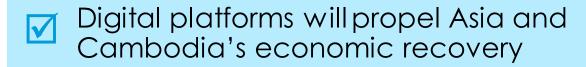
Big data from private platform economies will be critical in evidence-based competition policies for effective COVID-19 response and recovery:

- Tracks economic activity at a high-frequency, granular level
- Very relevant to people's livelihoods
- Better policies to unleash potential of platform economies



Key messages





Risks and challenges include privacy and cybersecurity, tax arbitrage and loopholes, and anti-competitive behavior—critical to design appropriate policies and regulations



A menu for success—affordable and quality ICT infrastructure, seamless digital connectivity, digital skills and literacy, secure online payment systems, financial access for innovative startups, efficient e-government, effective legal and regulatory frameworks



Recent ADB knowledge products on technology

