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12TH ASIAN DEVELOPMENT BANK BUSINESS OPPORTUNITIES FAIR 2024

9-10 OCTOBER 2024 | 9 A.M. to 5 P.M. | ADB HEADQUARTERS, MANILA

Digital Technology for Development

Yoonee Jeong
CCDT

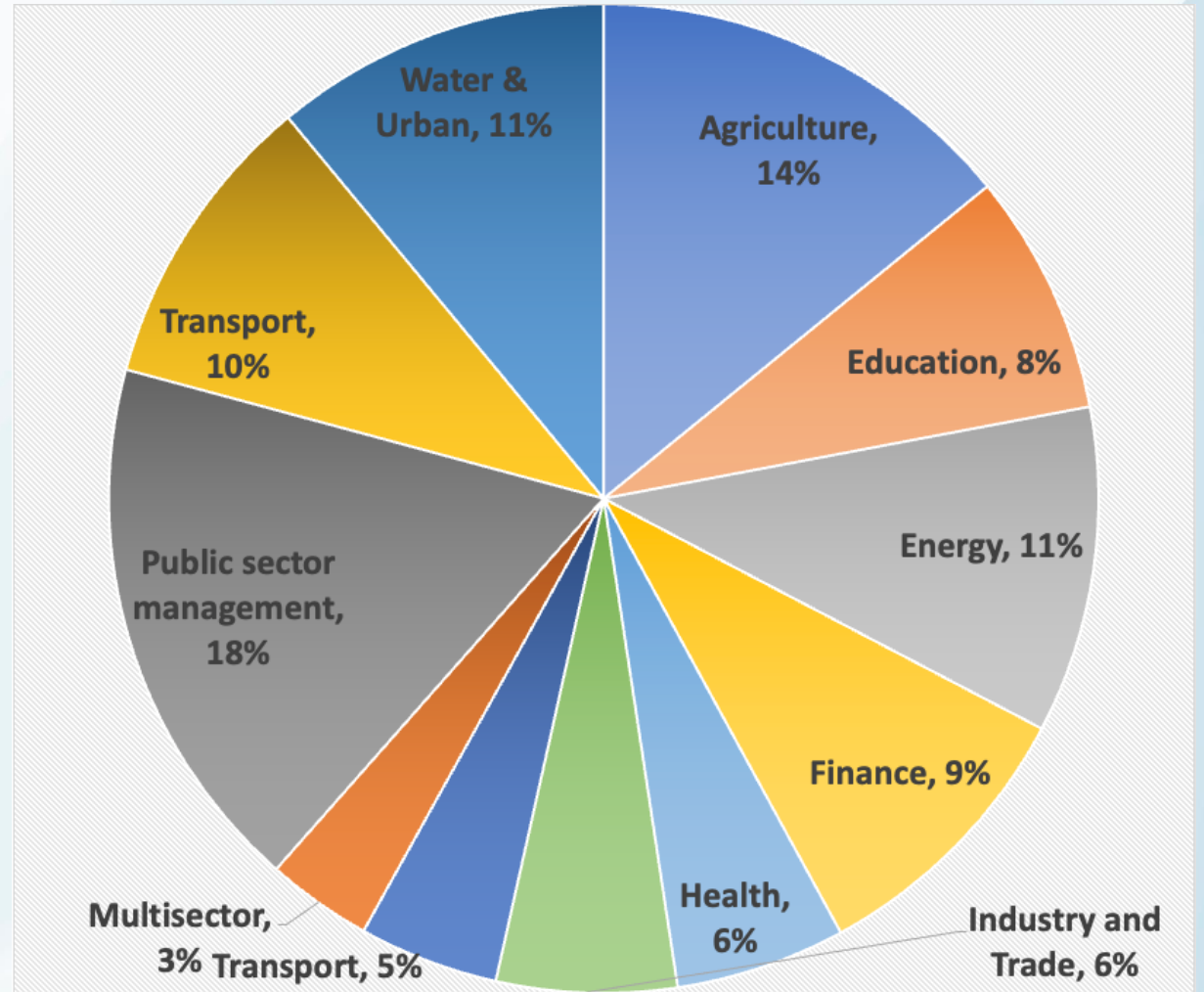
10 OCTOBER 2024



Digital Technology in ADB Operations

Approved projects with DT components*, by sector 2010-2023 (%)

*Sov & NSO loans and TAs has DT as a major output or a means to achieve one (at the project approval stage)





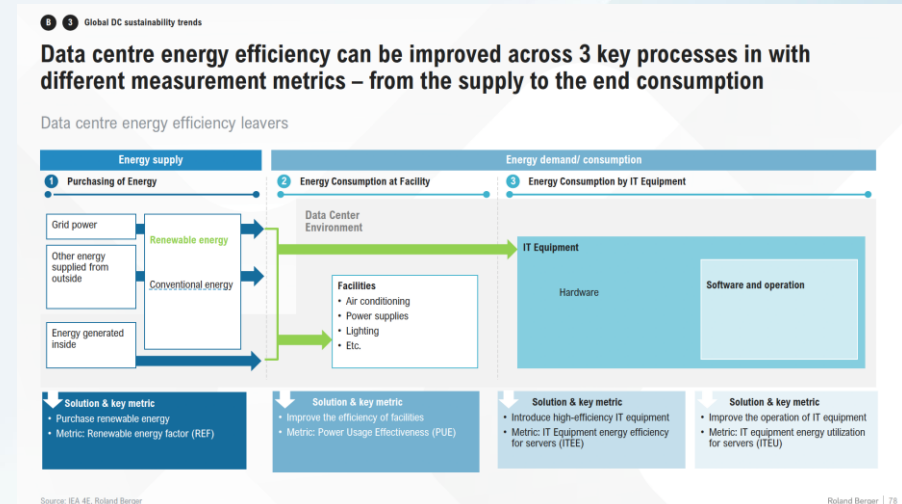
Digital Infrastructure

Connecting the unconnected



- Last-mile school connectivity support
- Satellite Demand Study for the Public Sector in the Philippines
- Advisory support on fiber co-deployment and sharing for transport and energy projects

Green digital infrastructure



- Market Research on Data Center Industry
- Market engagement and clinics



Digital Government

eGov in Sectors

- KGZ: TA-6850: Urban Sector Development Project - **building permit system**
- MON: TA 10005: Supporting Quality Infrastructure Investment in Ulaanbaatar – **building permit system**
- PHI: TA 10209: Supporting the Digital Transformation of the Civil Service – **HR management information system**
- IND: Loan 4166: Assam Skill University Project – **digital campus**



Digital Public Infrastructure

- KAZ: Action Plans for Developing National Spatial Data Infrastructure (**NSDI**)
- TAJ: Pre-Feasibility Study for Developing **NSDI**
- ARM: Supporting **NSDI** development
- CAM: Advisory service to **National ID** and **NSDI** development
- TIM: **e-Government infrastructure** – PFS on data center and digital connectivity
- TAJ : **National Payment Infrastructure** and ID integration

Whole-of-Government

- CAM: **Digital Government Policy 2022-2035**
- Digital Social Protection**
- ARM: e-Disability system
- BAN: assessment on Grievance Redress System (GRS)
- CAM: **integrated social registry** and pilot
- INO: monitoring system
- MON: developing accreditation system of specialized care service
- PHI: mobile apps for field workers and e-GRS in 4Ps
- SRI: initial assessment



Digital Development and Safeguard Policies



ASIAN DEVELOPMENT BANK



NO. 91
December 2023

ADB SUSTAINABLE DEVELOPMENT
WORKING PAPER SERIES

ASIAN DEVELOPMENT BANK



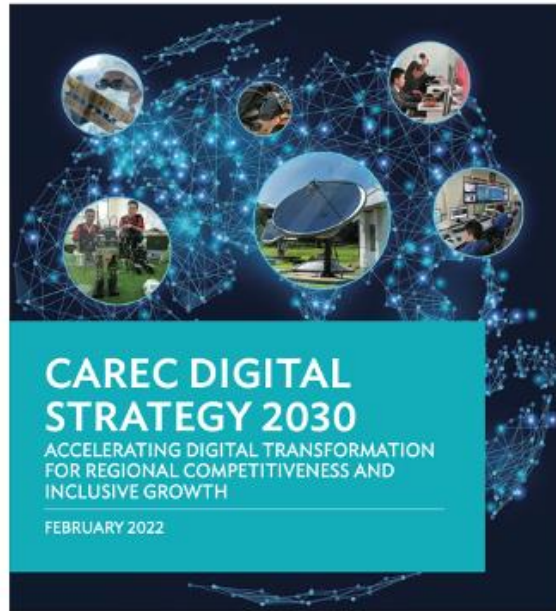
Regional TA “Support to Capacity Building and Implementation for Cybersecurity in DMCs”

- **Azerbaijan:** Transport sector, Railway Digitalization project
- **Cambodia:** Finance sector, PBL and related TA
- **Indonesia:** Finance sector, PBL and related TA for Innovative Financial Inclusion
- **PNG:** Establishment of Finance Sector computer emergency response team
- **Samoa:** Implementation of country assessment and promotion of cybersecurity in Finance sector



Digital regional integration

CAREC



GMS





Digital regional integration



ADB'S Trade Digitalization Initiative: Better trade for a better world



Digitizing Trade in Asia Needs Legislative Reform

- Legislative gaps impede the digitization of trade.
- Digitization makes global trade and supply chains more robust, supports economic growth, and job creation, and closes financing gaps for micro, small, and medium-sized enterprises (MSMEs).
- Adoption of the Model Law on Electronic Transferable Records (MLETR), developed by the United Nations Commission on International Trade Law (UNCITRAL), would address the problem. Only three jurisdictions have taken the step to date: Bahrain, Singapore, and the Abu Dhabi Global Market.
- Widespread adoption of the MLETR holds the promise of increased efficiency, consistency, and coherence in the market, and will have a ripple effect of legislation on electronic commerce.
- The time for legislative reform is now: the expected benefits will contribute to post-pandemic recovery (COVID-19) and economic recovery.

Royal Ranaid
Legislative Reform Lead
International Chamber of Commerce

Carman Mehta **Ramesh Chitr**
Consultants
Trade and Supply Chain Finance
Asian Development Bank

Claydon Hoyle
Managing Director of ICC Digital
Standards Initiative

Stewart Black
Head of Trade and
Supply Chain Finance
Asian Development Bank

INTRODUCTION

This report identifies country-level legislative gaps in the Association of Southeast Asian Nations (ASEAN) region that inhibit the digitization of trade. It provides a snapshot of developments and opportunities for legal reform to enable the digitization of transferable records.

ADB's member states are encouraged to:
(i) adopt the UNCITRAL MLETR, and
(ii) accede to the Framework Agreement on Facilitation of Cross-border Paperless Trade in Asia and the Pacific.

In partnership with the International Chamber of Commerce, Enterprise Singapore, and the Asian Development Bank (ADB), the International Chamber of Commerce (ICC) Digital Standards Initiative (DSI) was launched in 2020. The DSI is focused on establishing a globally harmonized, digital trade environment. It envisions digital records that enable seamless digital trade throughout the trade ecosystem, with end-to-end

"Universal standards will connect existing digital islands and will create a level playing field for exporters, importers, and supply chain partners. An enabling and neutral space in the industry, in trade norms, is being the project under the umbrella of ICC. This will allow the ICC DSI to lead and coordinate efforts in developing standards and a network of digital trade."

— John W. H. Durrant, ADB Secretary General

responsibility for exporters, importers, postal and customs authorities, logistics providers, financiers, and inspectors.

This will translate into enhanced resilience in trade finance and supply chain operations, reduced uncertainty, the introduction of new services and products, and the advancement of the United Nations (UN) Sustainable Development Goals (SDGs). This release will leverage technology to reduce the global trade finance gap, particularly among MSMEs.

¹ ASEAN is a regional group composed of Brunei Darussalam, Cambodia, Indonesia, the Lao People's Democratic Republic, Malaysia, Myanmar, the Philippines, Singapore, Thailand, and Vietnam.



E-COMMERCE EVOLUTION IN ASIA AND THE PACIFIC OPPORTUNITIES AND CHALLENGES

NOVEMBER 2023

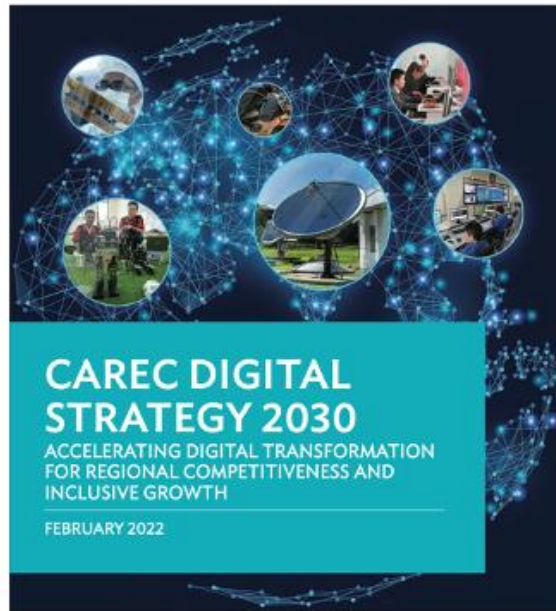
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Digital regional integration

CAREC



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Artificial Intelligence



AI Solution Development

BAN: Supporting 4th Primary Education Development Program:

- GenAI-powered ChatGPT-style educational chatbot for PE teachers
- Automation of teaching tasks
 - Generating lesson plan, teaching material, and questions
- (Planned) User test / Pilot tentatively scheduled for April

ATAL: AI Teaching Assistant for Language



AI Survey and Ideation session



AI Education and Capacity Building

REG : Digital Development Facility for Asia and the Pacific

- (Planned) AI/DT training for primary education teachers and education officials of Bangladesh

MON: Support for Innovation in Education and Training (for approval in November 2024)

Output1: Teaching of STEM education strengthened

- AI literacy program development for K-12
- AI needs assessment for teachers
- AI-powered assistant solutions for teachers





Earth Observation/GIS

Cloud SEOS
Cloud-based Satellite Earth Observation System

REGIONAL DIGITAL TWIN SUMATRA

- Home
- Urban environment
- Mobility
- Hazard
- Environmental
- Administrative bounds
- Risk analyzer
 - Carbon footprint simulator

Carbon footprint simulator / Riau

Estimated CO2 Transport Emissions

Mode	MTCO2e/year	Total MTCO2e/year
Motorcycle	6 194	6 442
Automobile	248	
Total		

Km travelled

Category	Value
Inbound	26 406 748 km
Outbound	43 676 900 km
Inboundary	544 160 153 km
Total km travelled	614 243 801 km

Transport mode and efficiency

the sum must be equal 100%

Motorcycle ratio	79.10 %	Motorcycle efficiency	56.11 km/l
Automobile Ratio	19.60 %	Automobile efficiency	9.03 km/l
Bicycle	0.28 %		
On Foot	1.02 %		

correct 100 %





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Thank you!