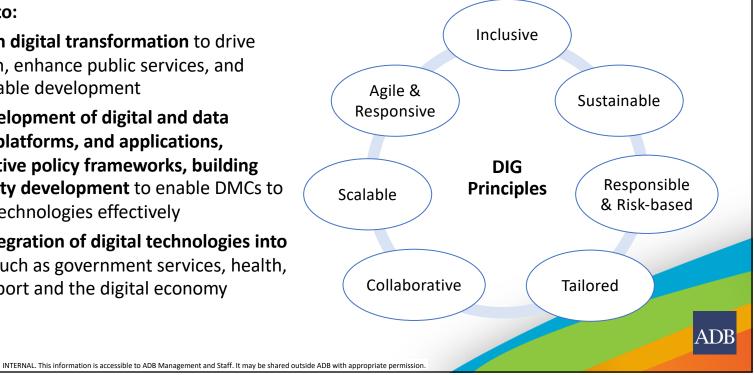


Digital Sector Office (DIG) vision

Lead digital transformation efforts in Asia and the Pacific, empowering DMCs to accelerate into a digitally Prosperous, Inclusive, Resilient, and Sustainable future

DIG efforts will be to:

- Assist DMCs with digital transformation to drive ٠ economic growth, enhance public services, and promote sustainable development
- Support the development of digital and data ٠ infrastructures, platforms, and applications, promoting effective policy frameworks, building trust, and capacity development to enable DMCs to leverage digital technologies effectively
- Facilitate the integration of digital technologies into ٠ various sectors such as government services, health, education, transport and the digital economy



DIG Theory of Change

VISION: ADB envisions a future where it will lead digital transformation efforts in Asia and the Pacific, empowering DMCs to accelerate into a digitally prosperous, inclusive, resilient, and sustainable future through competitiveness, productivity gains, and better service delivery.

DIGITAL FOUNDATIONS Supporting the digital fundamentals will create a strong base for DMC digital transformation.

Policy and Regulations: best practice policy and regulations to enable digital transformation

Digital and Data Infrastructure: focus on deployment and implementation of affordable, accessible, & high-quality connectivity

Cybersecurity, Data Privacy and Protection: system design approach to data privacy, protection, cybersecurity, safeguards, data management, data computing, & data centers

DIGITAL ACCELERATORS Leveraging digital foundations are accelerators that will amplify impact of digital

Digital Public Infrastructure and Digital Government: digital identification, digital payments, data exchange

Innovation, Science and Emerging Technologies: frontier technologies, research and development, tech startup ecosystem

Digital Skills and Literacy: digital literacy and skills, capacity sharing and strengthening

CROSS CUTTING: gender and inclusion | climate and sustainability | public-private partnerships

INTERMEDIATE OUTCOMES

Digital foundations and accelerators lead to intermediate changes in policy, behavior, and project design for DMCs in 3-5 years.

Digital Society: digital technologies and the internet are deeply integrated into the daily lives and activities of individuals, businesses, & governments

Digital Infrastructure: robust foundational technology systems and services that support the digital economy

Digital Citizens: individuals utilizing digital technologies in a responsible. ethical, and informed manner.

Digital Economy: extensive economic activities enabled by digital technologies

Digital Industry: sectors driven by digital technologies, including businesses that create, distribute, and utilize digital products and services.

Data driven analytics: systematic, strategic collection, processing, and analysis of large sets of data to make informed decisions and drive business outcomes.

LONG TERM OUTCOMES

Final impact that we anticipate as a result of digital transformation for DMCs.



Sustainable digital infrastructure to enable services and applications for DMC citizens



Improved livelihoods and economic opportunities for DMC citizens



Improved enabling environment for digital transformation and acceleration



Innovative integration of digital technologies to increase access, relevance, and affordability



infrastructure for trusted and secure data environment

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Digital Foundations – Key Priorities

Policy and Regulations

- Develop broadband indices and mapping tools to define a baseline and to inform policy and investment decisions
- Support the modernization of telecom and digital regulatory and policy frameworks in DMCs to contribute to the sustainability of the investments.
- 3. Promote **device and service affordability** (taxation, procurement, supply chain)
- 4. Policy and regulation reforms across other DIG foundation and accelerator workstreams (infrastructure, cybersecurity, data privacy and protection, DPI, digital government, emerging tech, and skills) and other Sector Office areas including transport, energy, agriculture, food, nature, rural, water, urban, finance, human and social development, and public sector management and governance

Digital and Data Infrastructure

- 1. Develop **digital infrastructure map** to identify investment gaps, and chart requirements to support digital transformation across sectors
- 2. Identify digital and data infrastructure projects that facilitate **regional digital integration** such as cross-border connectivity and digital hubs
- 3. Develop **technical skills capacity** building programs to facilitate the sustainability of the investment undertaken

Cybersecurity, Data Privacy and Protection

- Promote integration of data privacy, security, and protection of information and digital infrastructure across sectors and countries to drive economic growth, promote responsible data use and sharing, and encourage cross border data flow across ADB operations
- 2. Strengthen human resource and regulatory capacity of DMCs in data privacy and cybersecurity, including the integration of international standards, norms, and guidance
- In line with the Digital and Data Infra workstream, build a strong data infrastructure foundation primed for continued investment, upgrading, and enhancement for cyber resilience and safeguarding

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Digital Accelerators – Key Priorities

Digital Public Infrastructure (DPI) and Digital Government

- 1. Identify investment opportunities and priorities in DPI and Digital Government
- 2. Comprehensive Evidence Base: Conduct DPI mapping to guide lending and policy engagements
- **3. Dynamic DPI Index:** Track digital transformation and inform strategic resource allocation
- Holistic Ecosystem development: Foster inclusive, climate-smart digital solutions and private sector innovation
- 5. Capacity Building & Knowledge Transfer: Equip DMCs with skills, tools, and governance frameworks for DPI and egovernment
- 6. Inclusive, Climate-Resilient Digital Transformation: Embed equity, gender, and sustainability in all DPI/digital government interventions

Innovation and Emerging Technologies

- 1. Advance integration and deployment of emerging technologies in key sectors across ADB operations, including artificial intelligence, remote sensing data/Earth Observation, Internet of Things and digital twins
- Promote government policies and regulations that foster innovation and entrepreneurship in education and investment environments
- 3. Develop tech startup ecosystem holistic approach framework
- Expand utilization of remote sensing data for digital twin urban planning, early warning systems, and cloud-based satellite processing

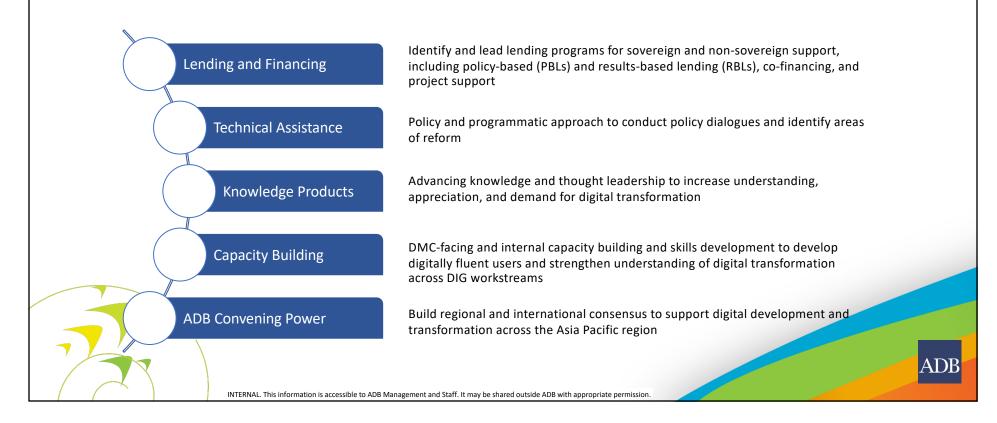
Digital Skills and Literacy

- Adapt existing programs to integrate digital skills and literacy where possible, considering quality of instructions, curriculum, and availability
- 2. Conduct **baseline survey/study** for prioritized countries in Asia for **basic and intermediate digital skills**
- 3. Integrate digital skills and literacy **capacity building** into DIG workstreams (such as connectivity and data privacy and cybersecurity)
- Identify training programs to advance digital skills outside of the formal education system and build partnerships where appropriate

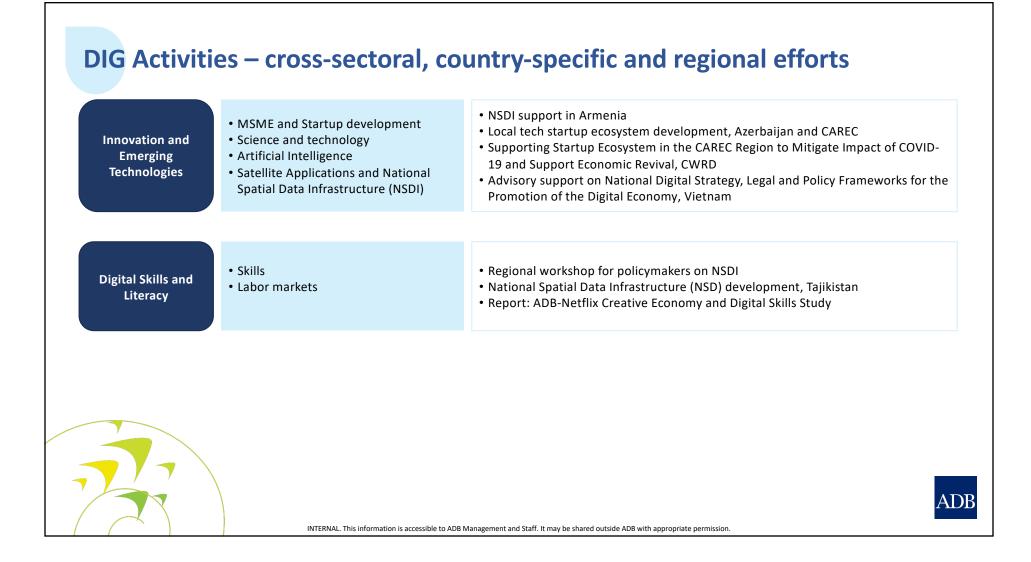
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DIG Key Activities

DIG will pursue activities in the following areas across the digital foundations and accelerators, in alignment with RDs and other SG priorities



Digital and Data Infrastructure	 Investments Broadband infrastructure and services Market competition Regional development 	 Tcell Mobile Network Expansion Project, Tajikistan Strengthening Governance and Institutional Capacity for Quality Infrastructure Investment in Ulaanbaatar, Mongolia Green data centers in Southeast Asia "Dig-once" policy reforms in Pakistan Reports: Low Earth Orbit Satellite Constellations; Last Mile Connectivity; Sharing of Digital Infrastructure
Cybersecurity, Data Privacy and Protection	 Digital risk management Digital security and privacy Consumer protection 	 Cybersecurity toolkit for education information systems Digitalization of Azerbaijan Railways Report: ADB-Amazon Web Services study on Data Management in Government
Digital Public Infrastructure (DPI) and Digital Government	 Digital government Social protection Taxation and benefits Social policies Skills Environment Healthcare Climate resilience Digital government 	 National digital public infrastructure (DPI) establishment, Tajikistan Modernizing Social Insurance System Project (MSIP), Tajikistan Digital Transformation Strategy Development, Tajikistan E-government and Digital Transformation, Mongolia Support for Innovation in Education and Training, Mongolia Digital payment, Sri Lanka and Tajikistan Climate-Resilient Water and Sanitation Services Project, Uzbekistan Cloud adoption of core banking systems, Philippines Social protection reform, Philippines Advisory support on digital social protection, Nauru, Bangladesh and Mongolia Emergency assistance for rehabilitation and reconstruction, India Digital health transformation and support



Holistic approach to launching a CAREC Regional Fund of Funds, beginning with fund manager training, leveraging existing ecosystem actors, building local capacity, and increasing access to catalytic financing in the region.

Challenges	 Lack of professionalization of early stage fund managers that are critical to building an investment ecosystem Non-existing or lacking ecosystem support e.g., funding, facilities, advice, mentorship, etc. fragmented ecosystems, high fund administration support Small markets, remoteness, regulatory barriers e.g., Innovators & startups struggle to find a product-market fit, customers or financing to scale domestically, sectoral imbalance (Fintech dominated) Scaling up startups and long-term sustainability due to dominance of Early-Stage investment (preseed and seed stages)
	Limited industry expertise (experienced fund managers) to mobilize capital and attract global investors
	 Fund Manager Professionalization (short to medium term) First step to build the capacity of fund managers with a focus on management, governance, fund growth, mentorship
	 Support existing local fund managers Output: 2-3 professional managers per CAREC country
Proposed Approach	 Develop regional fund of funds (medium to longer term) Consultations on engaging with LPs and international investors for capital commitments, FoF structure, governance, ADB role
	 Develop culture of excellence for startups, founders, and investors Provide additional support through knowledge sharing, events with public and private sectors and inductional counterparts

	tion policy dialogue to advance portfolio of investme ucts for advancing digital integration in the region.	ents and knowledge
Highlight specific areas of focus	 Create Working Group(s) on specific topics related to digital transformation in CAREC, including: Digital and data infrastructure Policy and regulation Fund of Funds and Tech Startup Ecosystem Support Leverage CAREC Digital Strategy 2030 	CAREC DIGITAL STRATEGY 2030
In person engagement	 Digital Sector Office and BIOC will co-host flagship digital technology forum in June 2025 (specific dates TBD) Engagement with CAREC for areas of interest and attendance 	ACCELERATING DIGITAL TRANSFORMATION FOR REGIONAL COMPETITIVENESS AND INCLUSIVE GROWTH FEBRUARY 2022

