





DIGITAL TECHNOLOGY FOR DEVELOPMENT

Sustainable Development and Climate Change Department

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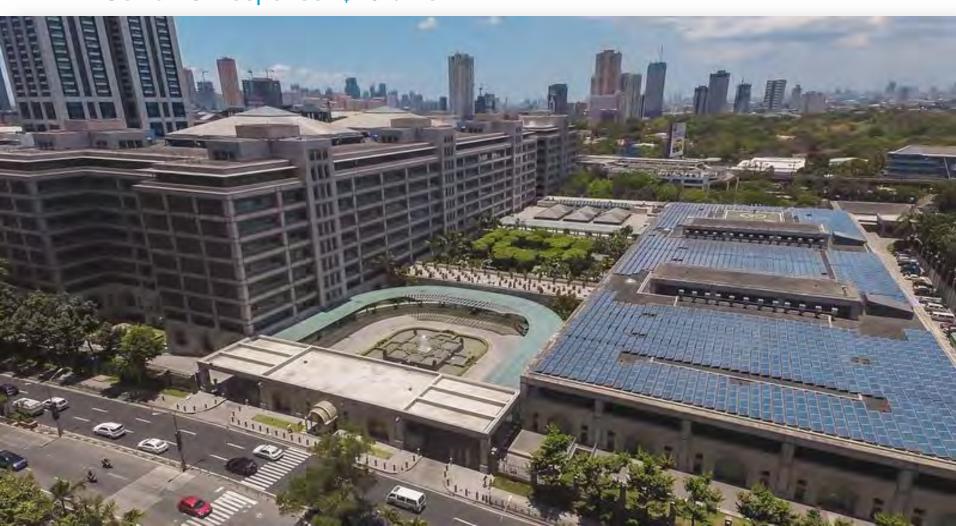
ADB Key Facts



Founded 1966, 68 members, 3200 staff from 60 countries

Total capital: \$152 billion, annual commitments: \$32B

Covid-19 Response: \$20 billion

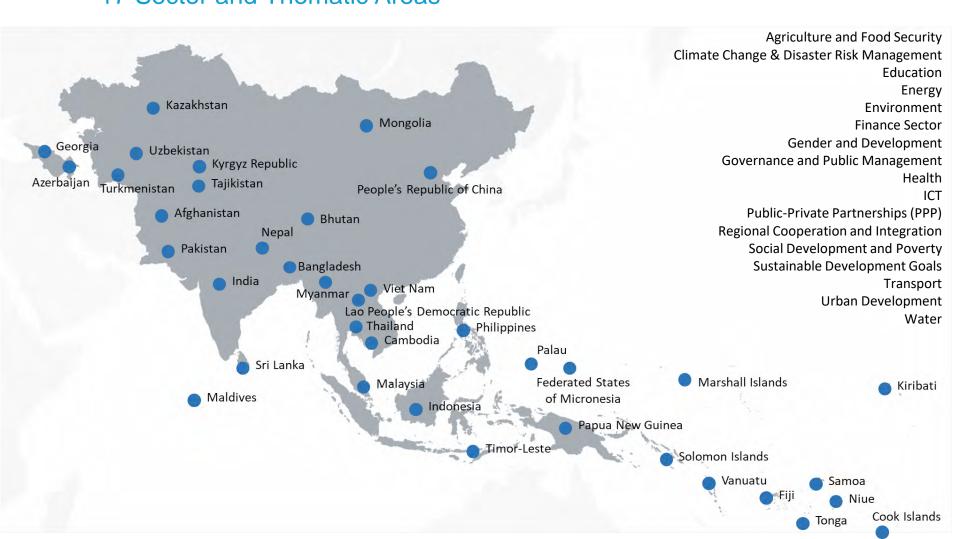




ADB Developing Member Countries



Wide range of development contexts and challenges 17 Sector and Thematic Areas





What are the implications of COVID-19?



- Pandemic is accelerating the trend toward digital economy:
 - Remote work solutions to support working from home
 - Use of ecommerce for delivery of food and goods
 - Digital payments for government support programs
 - Use of eLearning for remote education
 - Use of digital healthcare solutions
 - Online gaming and video entertainment
 - Many lockdown-driven activities may revert back to normal, but many will continue
- Connectivity should be recognized as a basic necessity
 - This is particularly true across Asia, where high growth rates make investments more feasible



Key challenges from our perspective



Our Developing Member States face many barriers:

- Low-density populations
- Low-income populations
- This combination means more infrastructure cost per user and less revenue potential

Development programs are needed to help bridge the gap

- Universal access funds
- Investment support
- Subsidies to low-income households

Infrastructure levels will vary based on density and geography

 Communications technology is evolving rapidly, making it impossible to mandate the same quality of infrastructure and service everywhere



What can MDB's do on connectivity?



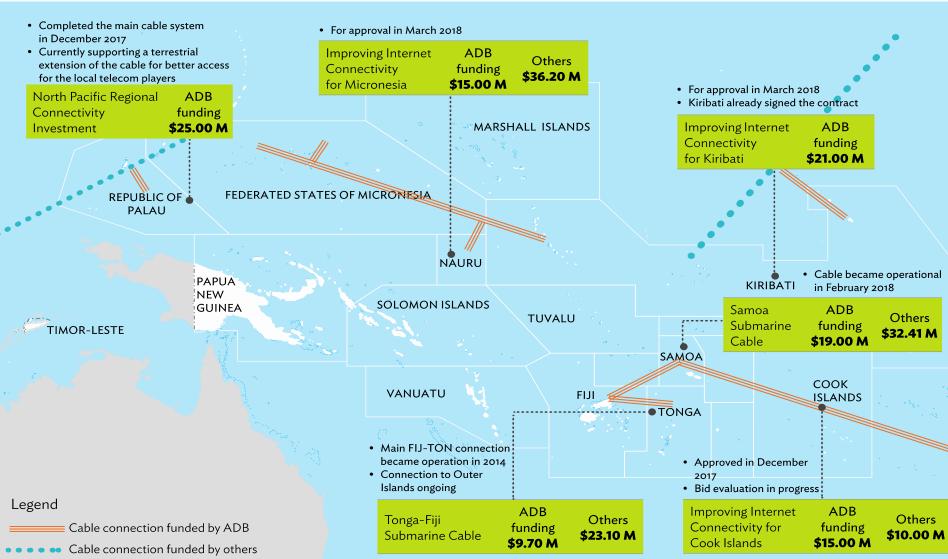
- Invest in infrastructure projects directly (public, private, PPPs)
 - Submarine cables
 - Communications satellites
 - Broadband networks
 - Last mile connectivity of key infrastructure (such as schools)
- Grants and technical assistance
 - Infrastructure support and project support
- Policy actions
 - Support national broadband plans, competition policy, rural access funds, etc.
- Generate demand and urgency through development initiatives
 - transport, energy, education, health, governance, environment, agriculture, etc.
- Example: ADB connectivity projects:
 - Pacific Submarine Cables
 - Kacific Communications Satellite
 - Philippines Shared Connectivity for Government



M = million

ADB Support for Pacific Submarine Cables







ADB Support for Satellite Connectivity



Kacific1 Satellite

- ADB provided \$50 million in private sector financing to Kacific to deliver low cost, high-speed, easily accessible broadband internet;
- Kacific1 provides access to broadband internet in remote areas, where no or very limited coverage is currently available (since Dec 2019);
- Enables better education and health services, improves access to information, and drives more trade and connectivity between countries.





ADB Technical Assistance (examples)

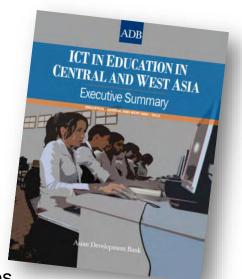


Advice for Philippines National Broadband Plan

- Research on Network Infrastructure Sharing (now adopted):
 Studied opportunities, anticipating commercial aspects and other surrounding issues; and providing strategies moving forward.
 - Access fiber/right of way, specifically on the electricity transmission network to provide connectivity for better government services
 - Network expansion & operating costs would reduce
 - Revenue generation for host infrastructure providers through rental revenue and opportunities for private investment
 - Increase competition by providing opportunities for new operators

Publication: Central & West Asia (2006 – 2012)

- varying levels of school internet connectivity (in 2012):
 virtually 100% in Kazakhstan, around 60% in Uzbekistan,
 7% in Tajikistan, and 3%–5% in the Kyrgyz Republic
- few countries attempted estimating the total cost of their national ICT for education strategies
- most governments had no clear idea of the costs involved in sustaining effective ICT use in schools.
- little conclusive evidence that ICT significantly improved student performance, even in developed countries with the most substantial ICT-related investments









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