

The Global Infrastructure Facility

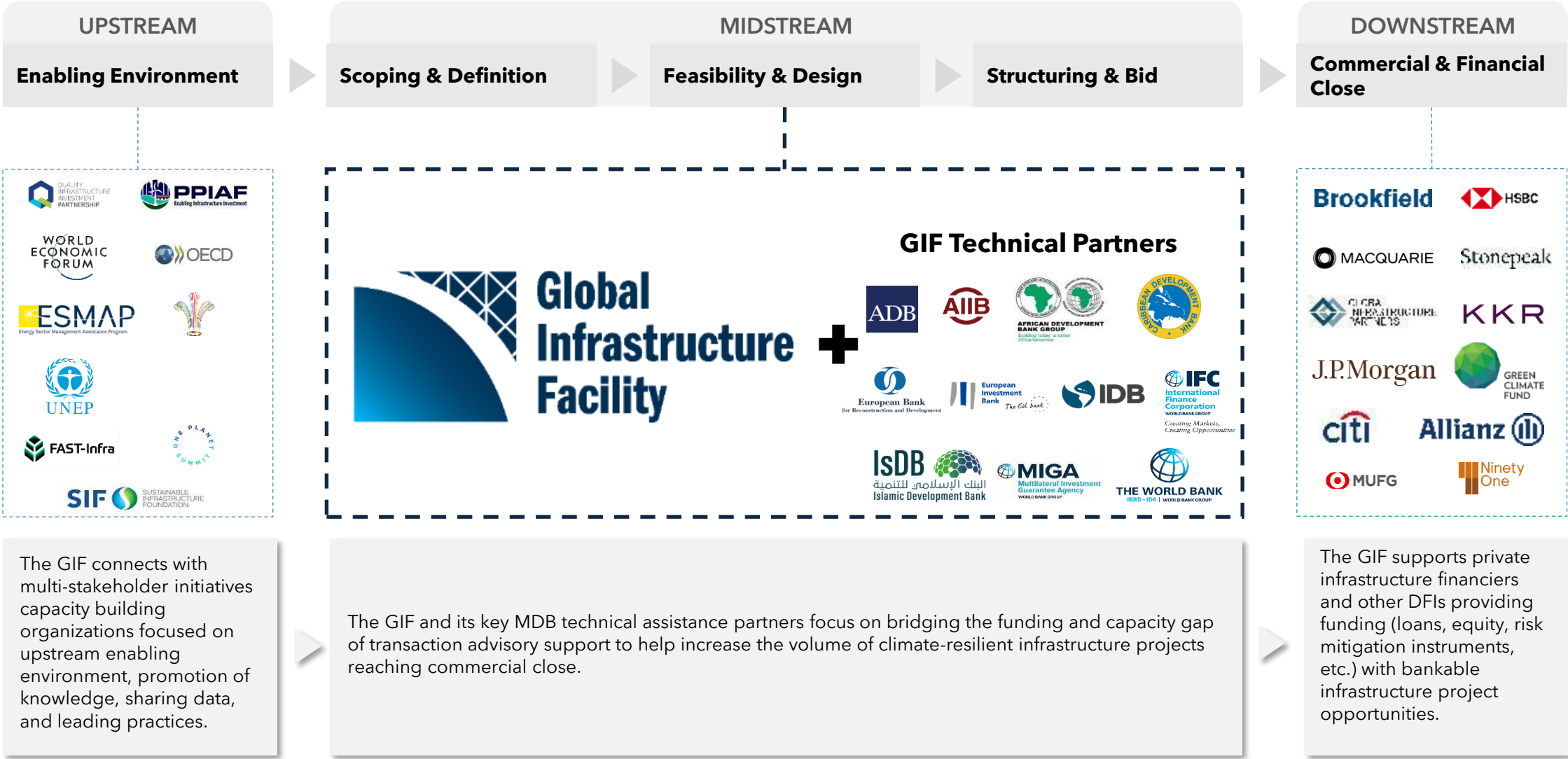


Workshop on Data Center PPPs

22 July 2026 | Virtual

2026 WORKSHOP SERIES ON
PUBLIC-PRIVATE PARTNERSHIP HOT TOPICS

The GIF plays a critical role in connecting upstream enabling technical assistance providers and the MDB system to deliver critical midstream activities, enabling downstream partners to broaden the landscape of bankable projects



GIF | The only global multilateral public-private collaboration platform to prepare sustainable and resilient infrastructure projects for private investment at scale

GIF through the multilateral system of 11 accredited Technical Partners



Since inception and as of March 15, 2026, GIF approved



USD\$153 million

across



205 project activities in **78 countries**



47 projects have reached commercial close

of which

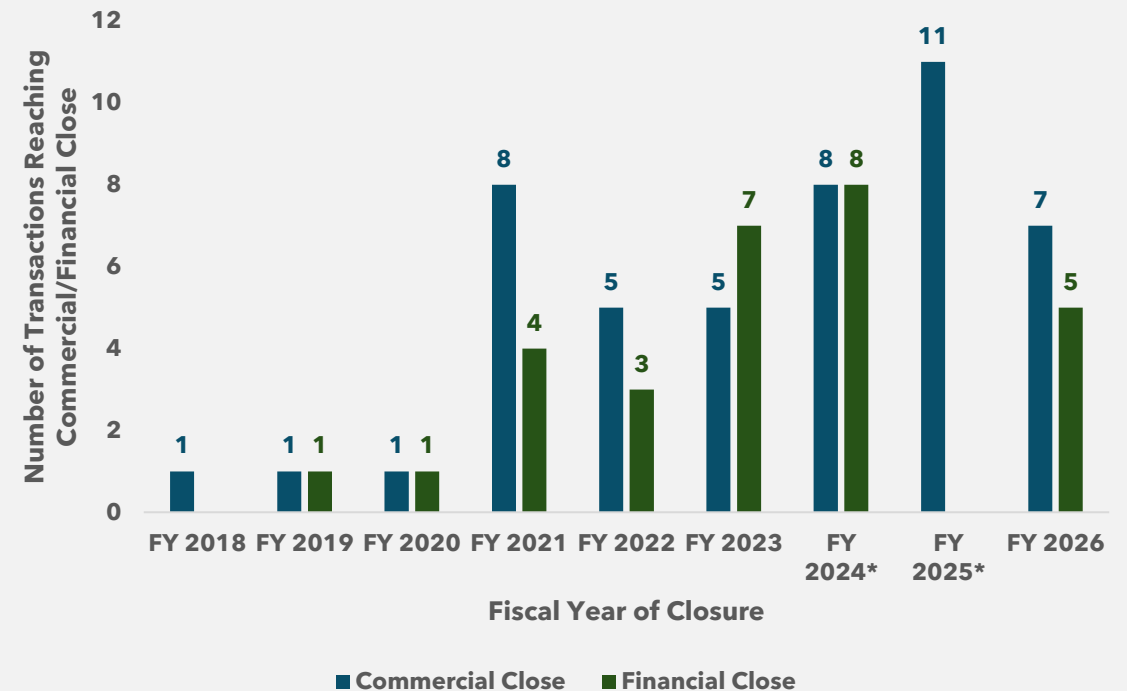
29 projects have reached financial close

\$12.2B of private capital mobilization at financial close

A GROWING TRACK RECORD BRINGING PROJECTS TO MARKET

- As of March 15, 2026, 47 projects have reached commercial close, of which 29 also reached financial close with \$12.2B mobilized from private sector (excl. commercial DFI funding)
- So far, in FY26, 7 GIF-supported projects reached commercial close, and an additional 5 have reached financial close.

Projects Reaching Commercial Close in FY26
Brazil: Road Concessions - Parana Roads Lot 4
Panama Roads Program II: Panamericana Oeste Highway
Brazil: Sao Paulo Urban Mobility Program - Paranapanema Lot
Brazil Street Lighting - Foz do Iguaçu
Brazil: Road Concessions - BR-040/495/MG/RJ Highway Retender
Peru Wastewater Program - PTAR Chincha
Philippines: CBK Hydropower (Philippines PSALM Asset Monetization of Hydropower Plants)
Projects Reaching Financial Close in FY26
Philippines: CBK Hydropower (Philippines PSALM Asset Monetization of Hydropower Plants)
Egypt: 10th of Ramadan Dry Port and Logistics Center
Philippines USP - Laguindingan Airport Expansion PPP
Panama: Road Program - East Panama Road
Seychelles: 5MW Floating Solar IPP Project



Note: The FY24 figure includes Tunisia-Italy Electricity Interconnector, which closed in FY24 but was not reflected at that point in time by the GIF as having reached commercial and financial close. The FY25 figures includes Brazil CPTM Lot 1, which reached commercial close in FY25 but was not reflected at that point in time.

GIF - A Diversified Global Portfolio

AS OF 03/15/2026
BY VALUE OF APPROVED FUNDING
SINCE INCEPTION



Activities **205***
in Latin America **28%**
in Africa **20%**

ECA **17%**
MNA **14%**
EAP **13%**
SAR **7%**
GLB **1%**

* NET OF CANCELLATION

Actual PCM:

29 GIF-supported projects
reached financial close

US\$12.2B
in private investment
mobilization (excl.
commercial DFI investment)



Partners

IFC **47%**
WB **27%**
EBRD **9%**
IDB **7%**
AfDB **5%**
ADB **5%**
AIIB **0.2%**
MIGA **0.1%**



Climate-Smart**
83%



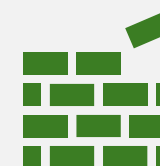
Connectivity &
Integration**
51%



Transport **39%**
Energy **33%**

Social Infrastructure **9%**
Water, Sewage, &
Sanitation **7%**
Multi-Sector*** **6%**
ICT **5%**
Municipal Solid Waste **1%**

***Multi-Sector activities span two or more
infrastructure sectors, or cross-cutting
upstream work (e.g., PPP pipeline
prioritization)



Exposure in LIC & L-MIC
Combined **58%**

LIC **11%**
L-MIC **46%**
U-MIC **38%**
HIC **3%**

GLB **1%**

An aerial photograph of a city, likely São Paulo, Brazil, featuring a large cable-stayed bridge crossing a river. The bridge has a tall central pylon and numerous stay cables. To the left of the bridge is a multi-lane highway with heavy traffic. To the right is another highway interchange. The background is filled with a dense urban landscape of high-rise buildings. The text "Global Data Centre Landscape" is overlaid in white, bold, sans-serif font across the center of the image.

Global Data Centre Landscape

Data Centers a Sought-After Asset Class

.....global data center market experiencing substantial growth; surged to the forefront of global investment

Key Drivers

- **Evolved beyond their traditional role as real estate or IT support assets** to become foundational components of modern economic and geopolitical infrastructure
- **As economies have gradually digitised**, cloud services, e-commerce, data analytics have all grown alongside, building the fundamental demand case for DCs and establishing crucial infrastructure-like characteristics
- **Post-covid pandemic** added significant momentum to the DC sector.
- **Demand stoked by the shift to work-from-home and hybrid-work arrangements**, alongside significant uptake of e-commerce, requiring a requisite acceleration of data centre capacity.
- **AI demand wave.** release & commercial uptake of AI large language models (LLMs), has added huge impetus behind DC capex and growth expectations.

Stargate AI Infrastructure Project (\$500bn - OpenAI, SoftBank, Oracle, Abu Dhabi's MGX)



Market/Global Overview

- **Increasingly viewed as a hybrid real estate and infrastructure asset class:** Driven by the AI boom and cloud adoption, institutional investors value them for **stable, long-term lease revenues** with **high-credit tenants**, differentiating them from traditional commercial properties through specialized power and cooling requirements.
- **Core institutional asset class.** Digital infrastructure now a core institutional asset class, alongside power & transport
- **Contracted.** Inflation-linked cash flows from investment-grade tenants create bond-like income
- **Asset categorisation:** many types to choose from: **enterprise, hyperscale, edge, and colocation.**
- **Market predominantly driven by pure private investment rather than PPPs:** IJ Global data ,over 700 data center projects reached financial close globally in last 5 years, of which less than 10 have been structured as PPPs.
- **Global footprint.** 67.7GW, a growth of 36% over the past two years, consuming now 2% of the world's electricity.
- **Top 5 data center consumers:**
 - USA, at 29.2GW, consuming 6% of the nation's electricity (world's largest DC location, with 43% of global consumption)
 - China, at 8.5GW, consuming 0.8% of nation's electricity.
 - Germany, at 5.5GW, consuming 9.5% of the nation's electricity.
 - UK at 2.0GW, consuming 5.8% of the nation's electricity.
 - Japan at 1.7GW, consuming 1.5% of the nation's electricity.
- **Regional Hotspots (IJ Global):**
 - **Asia-Pacific:** APAC is capturing massive global attention & investment. The \$2.3+ billion Eastern Economic Corridor hyperscale campus in Rayong, Thailand (backed by Global Infrastructure Partners/BlackRock) (IJ Global's prestigious Digital Infrastructure of the Year).
 - **Africa:** African market seeing accelerating investment to meet local cloud and sovereign data requirements. Major projects, like the Raxio Group's pan-African rollout financed by the IFC (IJ Global's Digital Infrastructure Deal of the Year – Africa).
 - **Americas & Europe:** US & EU continue to dominate global consumption & FDI inflows, with massive transactions—such as Digital Bridge's acquisition of Yondr (European Deal of the Year)

Global Data Center Landscape 2026

.....the AI Inflection Point

The Global Data Center Landscape 2026 The AI Inflection Point

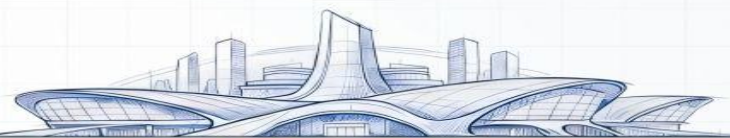
Infrastructure Focus Timeline



1950s: Mainframe Era
Centralized computing systems supporting early enterprise workloads

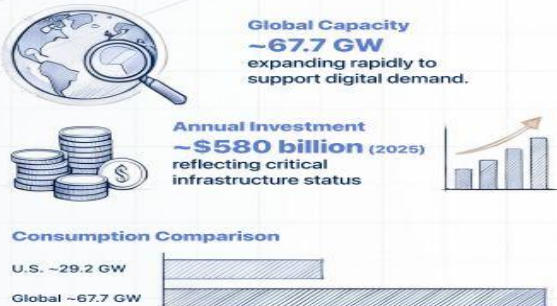


2010s: Cloud Era
Distributed hyperscale infrastructure enabling global digital services

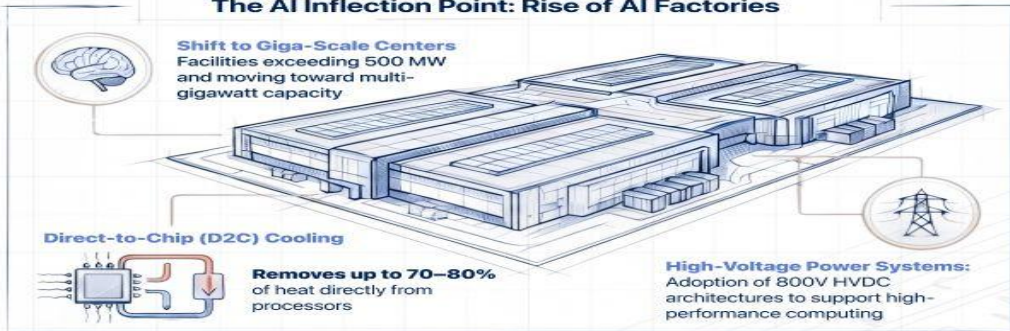


2020s+: AI Data Centers
Emergence of giga-scale "AI factories" designed for high-density model training and inference

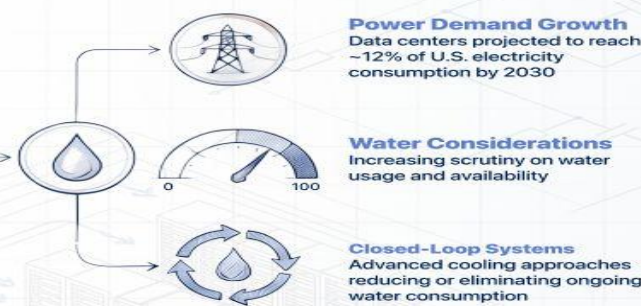
Global Footprint & Economic Impact



The AI Inflection Point: Rise of AI Factories



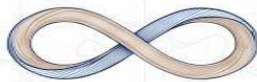
Energy and Water Resources



Unified Security & Standards



AE360 2.0 "The Infinity Paradigm"



The 7 efficacies of the Infinity Paradigm



Source: International Data Centre Authority (IDCA) Global Data Center Report (2026)

Key considerations for Data Centers

- **Power. "Speed to Power"** Dilemma. Grid connection delays has elevated power availability above proximity as the primary site selection criterion, leading operators to pursue "bring your own power" models, on-site natural gas, and hybrid renewable microgrids.
- **Connectivity**. Can be considered as a function of the amount of landing stations for submarine fiberoptic cable (or connectivity to them), as well as the amount of terrestrial fiber-optic cable a nation has installed.
- **Location and land use rights** . Critical factor in the establishment of new data centres. Operators/investors require certainty on what rights have been granted, and that these will not change.
- **Data sovereignty & data localisation requirements**
- **Increasingly seen as critical infrastructure** warranting special protection alongside other key infrastructure under national security or foreign direct investment (FDI) regulations
- **Social license**. rising community opposition increasingly delaying or blocking projects; engagement drives success. Most delays occur during permitting and approvals, where weak stakeholder engagement can harden opposition and derail timelines, costs and delivery.
 - **Value created early - by securing power, land & anchor tenants ahead of construction**
 - **Power - not floor space - is the scarce resource & true unit of value**
 - **Signed grid connection/energy supply the real asset; land & shell follow**
 - **Secured power + creditworthy offtaker = a financeable project**

An aerial photograph of a city, likely São Paulo, Brazil, showing a wide river, a large cable-stayed bridge, and a complex network of highways and urban buildings. The image is in black and white with a green tint. The text "Kyrgyzstan Green Data Centre PPP" is overlaid in white.

Kyrgyzstan Green Data Centre PPP

Country Highlights



- Landlocked, mountainous country with a multiethnic population of 7.4mn
- Economic growth (2025-11.1%) driven by private consumption (17.4%) & investment, (15.9%).
- IT sector one of fastest growing industries, risen in the rankings of the Global Innovation Index from 117th (2013) to 99th (2024) among 133 countries; one of the most profitable/self-reliant sectors. 40% of software & other IT exports go to the USA; other markets (Japan, Canada, Ukraine, Kazakhstan, India, Germany)
- Leveraging digital revolution to actively position it as the digital hub of Central Asia, supported by favorable central geographic location, relatively affordable energy resources, a climate suitable for hosting sustainable "green" data processing centers, skilled talent pool, tax-friendly environment for remote workers & tech startups.
- Primary drivers include:
 - e-commerce rapid growth since 2019, due to improved internet infrastructure and rising mobile payment usage.
 - World Bank-supported Digital CASA Project
 - Establishment of the region's first "High Technology Park," (HTP)
 - Government cloud & infrastructure projects
 - "Digital Transformation 2024-2028" national agenda to build a sustainable digital ecosystem that promotes development, enhances citizens' quality of life, and modernizes public services.
- Mobile market remains one of the strongest in the region, with mobile penetration at well over 100%.

Data storage infrastructure to support digital development a challenge

Solution



- Develop a 5 MW Green data center
- 300-500 racks capacity
- First PPP project in the country's digital sector, prepared & procured via solicited & competitive process
- Implemented under a PPP Law adopted in 2019 & amended in 2021
- Experience with PPP transactions – health, transport, energy
- Key stakeholders - PPP Center; Ministry of Digital Development
- Scope of support:
 - Renewable Energy Study
 - Legal Due Diligence
 - Safeguards Due Diligence
 - Techno-economic Concept Development and Feasibility
 - PPP Project Scope
 - Bid Evaluation Financial Modeling
 - PPP Transaction Structure
 - Preparation of Project Documents
 - Bid Process
 - Final Negotiations

Project Overview

- **Tier-3 colocation** data center; functioning as a national digital hub
- **Government** as anchor tenant (MDD)
- **Additional modular capacity** to scale for private enterprises
- **Location - Bishkek** to provide shared cloud & infrastructure services, rather than a massive single-tenant hyperscale facility
- Investment size. **Approx \$15mn.** private partner responsible for securing the financial closure.
- RES. **100% powered by RES** - Central Asia's first entirely green computing hubs.
- Targeted energy mix. leverage national grid reforms; **power from extensive baseline hydropower** network & expanding **utility-scale solar PV** parks.



Expected Impact

- **Development of digital infrastructure & support for the government's digital transformation** by introducing international best practices
- **Diversify** available data center resources
- **Promotion** of the use of renewable energy in the country
- **Positive economic impact of additional employment opportunities** in various digital areas e.g. ecommerce, cloud services, data analytics
- **Positive environmental impact** due to use of renewable energy for the data center instead of traditional energy sources
- **Price discovery of tariff** charged by the private sector through competitive procurement process

Contact:

Ekow Coleman

Senior Infrastructure
Finance Specialist

Nairobi, Kenya

ecoleman4@worldbank.org



Thank You