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# Accelerating SDG Investments Across AFRICA

**Integrated National Financing Frameworks & Open Budgets  
for Sustainable Development in Africa**

**27-30 September 2022 – Abuja, Nigeria**

**Joanne Manda**

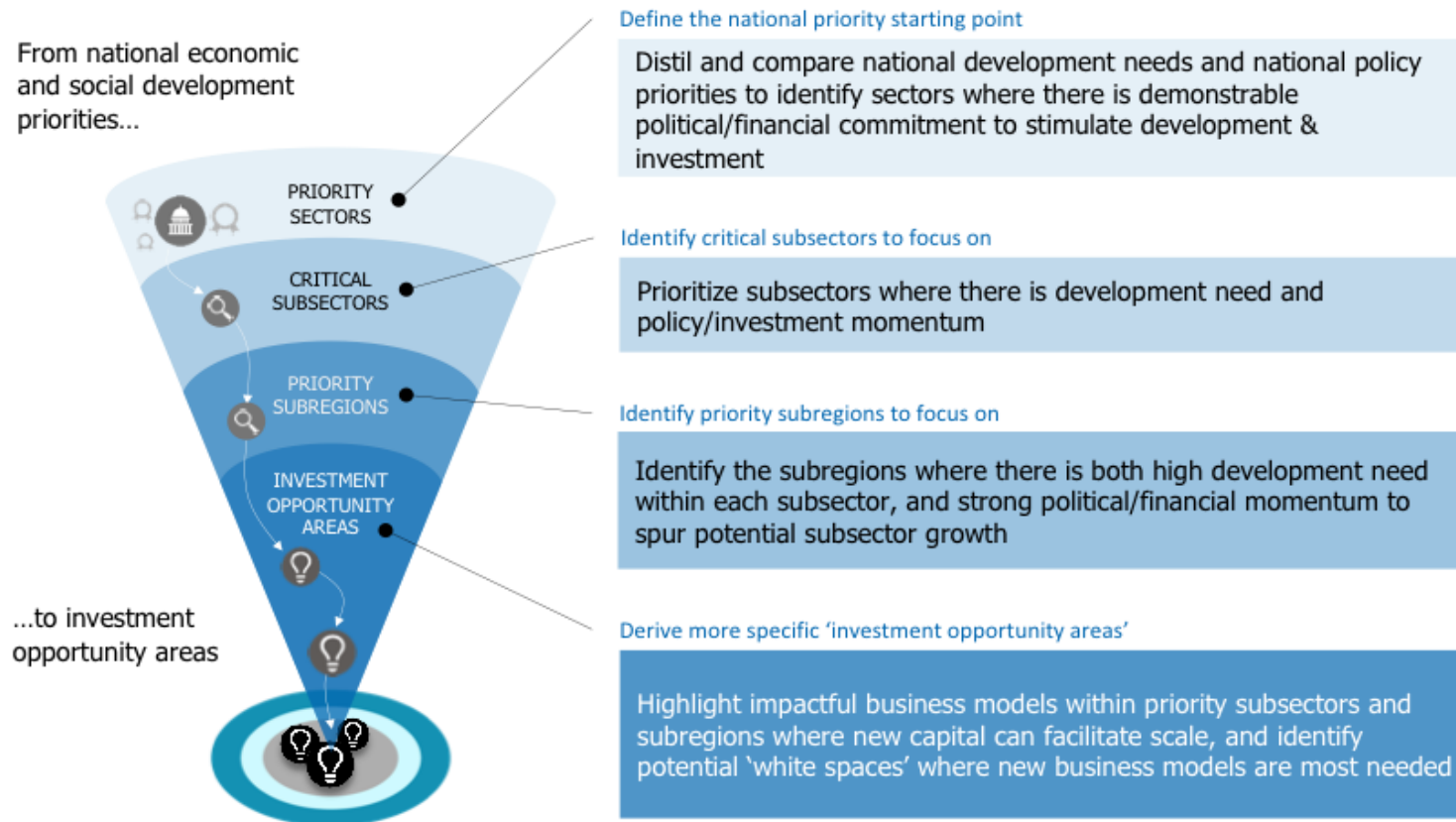
# SDG Investor Maps

identify concrete, investable solutions to pressing needs at country level



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## Filtering down from **national priorities** to derive **Investment Opportunity Areas (IOAs)**



# IOAs are underpinned by business and impact data points to inform private sector due diligence



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The SDG Investor Map provides the language for country offices to engage with the private sector



# INFF Processes ... and SDG Investor Maps



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Entry-points for **Public-Private Financing Dialogue platforms** translating NDP priorities into investor language

Through the SDG Impact Standards, it can support **impact measurement and SDG finance reporting**



Provides evidence, data and concrete recommendations on **viable business models** enhancing DFAs processes

Inform **National SDG Financing Strategies & Financing Instruments** with market intelligence

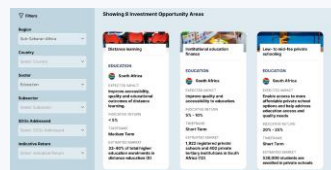
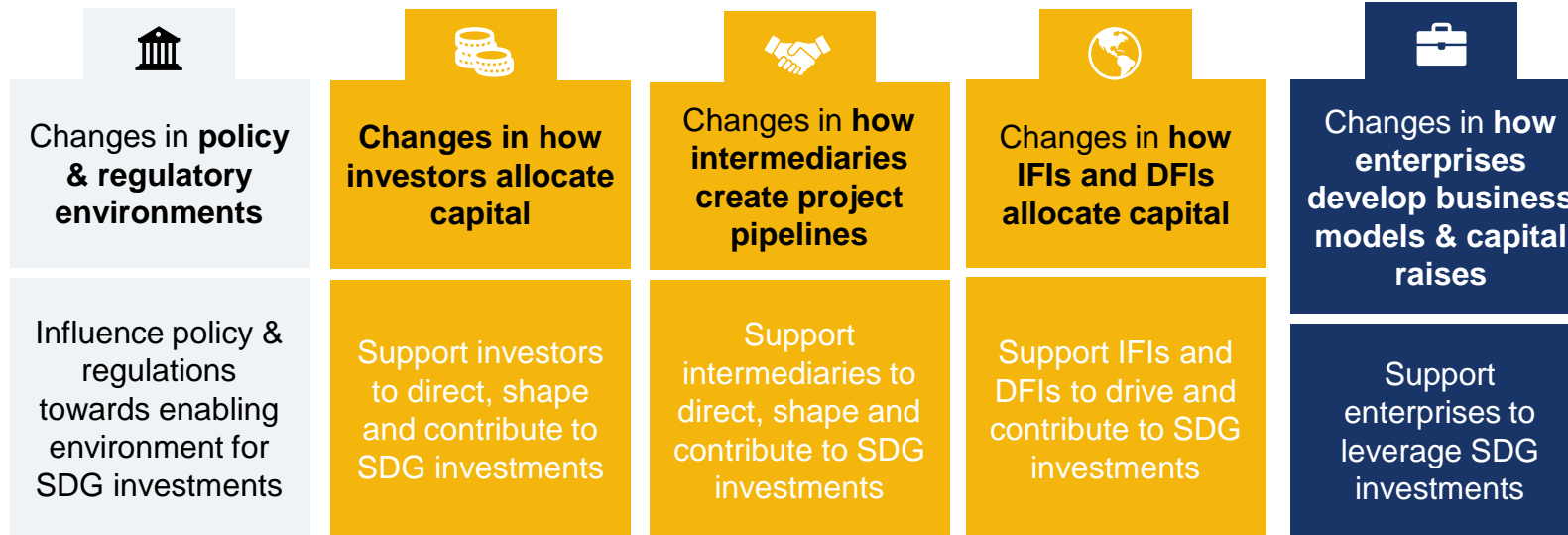
# SDG Investor Map data can be leveraged to drive change based on country priorities & target groups



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## WHAT HAPPENS AFTER THE MAP?

Track, measure & report on changes: Deliver transparency & support accountability



### SDG Investor Map

Starting point to produce the data and insights needed to identify and enhance SDG investments.



# SDG INVESTOR MAP MAURITIUS

Led by the **Economic Development Board (EDB)**, the preparation of the **SDG Investor Map** followed extensive research and consultations with the public and private sector to identify 17 investment opportunity areas that are aligned with the SDGs and the National Vision 2030.

As a small island nation and an **upper middle-income economy**, Mauritius is recognized as one of the most attractive investment destinations in Africa due to its **stable macroeconomic environment, reputation for good governance and a predictable regulatory regime.**



## Services

1. Eco-tourism Developments and Value Chains

## Renewable Resources and Alternative Energy

1. Solar PV Farms
2. Roof Mounted Solar PV Installations
3. Biomass Energy Production

## Infrastructure

1. Solid Waste Management
2. E-Waste Collection, Sorting and Upcycling
3. Decentralized Water Treatment and Supply Systems
4. Climate Resilient and Energy Efficient Social Housing

## Education

1. Integrated Tertiary Education Centers for STEM Disciplines
2. Skills Development Centers for Industry-Specific Trainings

## Healthcare

1. Pharmaceutical Production
2. Medical Devices Production
3. Medical Tourism Services

## Food and Beverage

1. Biofertilizer Production
2. Sustainable Fisheries
3. Seafood Processing
4. Cold Chain Infrastructure



## SAMPLE INVESTMENT OPPORTUNITY AREA

### Solar PV Farms



**Business Model:** Construct utility-scale solar photovoltaics (PV) plants connected to the grid and subject to Energy Supply and Purchase Agreement with Central Electricity Board (CEB).



### RENEWABLE RESOURCES & ALTERNATIVE ENERGY Solar Technology



#### GEOGRAPHY

Flacq, Plaines Wilhems, Rivière Noire, and Pamplemousses.



#### DEVELOPMENT NEED

Mauritius relies on imported petroleum and coal for 86% of its energy requirements. The energy sector accounts for the 62% of country's carbon footprint and 14.5% of the total imports.



#### EXPECTED DEVELOPMENT OUTCOME

Increased energy generation from renewable resources, helping the government reach 60% target by 2030, and reduction in greenhouse gas emissions.



#### STAKEHOLDERS IMPACTED

Households and industrial consumers in key sectors.



#### SAMPLE ENABLING ENVIRONMENT

Industry may generate up to 150% of their energy usage, from both on-site and off-site PV farms, and benefit from feed-in-tariff (FIT) and Carbon Neutral Loan Scheme.

**IMP CLASSIFICATION:** Contribute to Solutions.



#### MARKET SIZE CONSIDERATIONS

In 2020, 5.1% of renewable energy is generated by solar PV and the total installed capacity of solar PV farms reached around 83 MW, which is forecast to exceed 300 MW by 2030.



#### INDICATIVE RETURN PROFILE

10-21% IRR; depending on the offtake agreement.



#### TIMEFRAME EXPECTATION

**Medium-Term:** 7-10 years based on consultations undertaken with private firms from the sector.



#### SELECTION OF ACTORS

**Investors and IFIs:** AFD, AfrAsia Bank.

**Commercial banks:** Mauritius Commercial Bank.

**Businesses:** AKUO, Leal Energie, Green Yellow.

**Public sector:** Central Electricity Board (CEB), Mauritius Renewable Energy Agency (MARENA).



#### CASE STUDY & BACKGROUND RESOURCES

[Bambous Solar PV Farm.](#)





## SAMPLE INVESTMENT OPPORTUNITY AREA

### Decentralized Water Treatment and Supply Systems



**Business Model:** Construct and operate individual or collective decentralized water treatment and supply systems, for households and companies operating in the industry.



### INFRASTRUCTURE Water Utilities and Services



#### GEOGRAPHY

Across Mauritius and Rodrigues.



#### DEVELOPMENT NEED

Mauritius's available **water resources are expected to decline by up to 13% by 2050**. **Water leakage** caused by old infrastructure results in **48-60% loss** of water supply.



#### EXPECTED DEVELOPMENT OUTCOME

**Decreased direct discharge of water, reduced water losses and budget savings** brought about by effective use and management of water resources.



#### STAKEHOLDERS IMPACTED

**Households, planet, and businesses** in agriculture, fisheries, energy, and hospitality sectors.



#### SAMPLE ENABLING ENVIRONMENT

The **Technology and Innovation Scheme (TINNS)** supports **SMEs** in their sustainable transition in offering grants with specific provisions for **youth and women**.

**IMP CLASSIFICATION:** Benefit Stakeholders.



#### MARKET SIZE CONSIDERATIONS

In 2020, Mauritius's overall water utilization reached 997 m3 and the **water demand is expected to increase to 1,200 million m3** in 2040.



#### INDICATIVE RETURN PROFILE

**+25% IRR** alongside water saving benefits.



#### TIMEFRAME EXPECTATION

**Short-Term:** 5 years based on commercial water supply system installations in Europe.



#### SELECTION OF ACTORS

**Investors and IFIs:** AFD, African Development Bank.

**Commercial banks:** Mauritius Commercial Bank.

**Businesses:** Aqua Science and Technology, IBL Energy, Green Create.

**Public sector:** National Environmental Laboratory (NEL), Central Water Authority.



#### CASE STUDY & BACKGROUND RESOURCES

[Energies des Mascareignes \(EDM\)](#).





## SAMPLE INVESTMENT OPPORTUNITY AREA

### Solar Hybrid Mini Grids



**Business Model:** Install and operate solar hybrid mini grids to generate electricity and sell it to connected consumers or off-takers.



**RENEWABLE ENERGY**  
Solar Technology



#### GEOGRAPHY

Niger, Sokoto, Ogun, and Cross River States.



#### DEVELOPMENT NEED

Almost **half of Nigerians** have limited access to stable electricity; **renewable energy sector faces major challenges**, incl. high initial capital investment and inadequate human capacity.



#### EXPECTED DEVELOPMENT OUTCOME

Improved **productivity and access** to electricity for households and industries, **increased employment opportunities** and **incomes**, reduced **carbon emissions**.



#### STAKEHOLDERS IMPACTED

**Housing estates, industrial customers & communities.**



#### SAMPLE ENABLING ENVIRONMENT

Subsector is **well-regulated** and governed by legislations, incl. Electric Power Sector Reform Act and Mini Grid Regulations.



#### MARKET SIZE CONSIDERATIONS

50% of Nigerians have limited access to power grid investments; off-grid power solutions will generate annual **USD 9.2 billion market opportunity** for mini grids and solar home systems.



#### INDICATIVE RETURN PROFILE

**15% IRR** for stand alone small and medium off-grid.



#### TIMEFRAME EXPECTATION

**Medium to long-Term:** Cash flow expected within 10-15 years for IPPs and 6-8 years for commercials.



#### SELECTION OF ACTORS

**Investors and IFIs:** World Bank, AfDB

**Companies:** CrossBoundary, Daystar, Topec, NAYO

**Banks:** Bank of Nigeria, Industry and Development Bank of Nigeria

**Public sector:** Nigeria Electrification Project, UNIDO



#### CASE STUDY & BACKGROUND RESOURCES

[CrossBoundary](#)

## SAMPLE INVESTMENT OPPORTUNITY AREA

### Refused-derived fuel



**Business Model:** Construct and operate waste management and electricity generation plants to produce refuse-derived fuel to supply electricity to main cities.



**INFRASTRUCTURE**  
Infrastructure



#### GEOGRAPHY

Urban cities across the country: Lagos, Abuja, Ibadan, Kano, etc.



#### DEVELOPMENT NEED

**65 million metric tons of waste** is generated annually in Nigeria. Lagos generates about **20,000 tons of urban waste every day**. In terms of electricity generation, challenges include **40% of the population** not having access to **electricity grids**.



#### EXPECTED DEVELOPMENT OUTCOME

**Increase access to energy** for the population and **mitigate** against the **negative environmental effects of waste**.



#### STAKEHOLDERS IMPACTED

Households, Environment, Corporates, SMEs, Public institutions, etc.



#### SAMPLE ENABLING ENVIRONMENT

**Federal government policy** to make solid waste management efficient and sustainable; **Tax incentives** (tariff flexibility) available for investments in renewable energy.

**IMP CLASSIFICATION:** Contribute to solution.



#### MARKET SIZE CONSIDERATIONS

Average annual energy consumption per capita of **150 kilowatt hours**. Currently, of the estimated **20,000 tons of solid waste** generated in Lagos alone, **only 10% is collected**.



#### INDICATIVE RETURN PROFILE

**17.9% - 21.9% in IRR**



#### TIMEFRAME EXPECTATION

**Medium Term:** The estimated investment period is 10 years.



#### SELECTION OF ACTORS

**Investors:** European Investment Bank, Africa Renewable Energy Fund (AREF), International Finance Corporation (IFC), African Development Bank (AfDB)

**Companies:** Energise Africa

**Public sector:** Lagos Waste Management Authority (LAWMA)



#### CASE STUDY & BACKGROUND RESOURCES

[Energise Africa](#)



## SAMPLE INVESTMENT OPPORTUNITY AREA

### Fishery Terminals



**Business Model:** Construct and operate sustainable fishery terminals for large-scale fish cultivation, processing, storage and packaging.



**FOOD & BEVERAGE**  
Food & Agriculture



#### GEOGRAPHY

**Coastal states:** Lagos, Ogun, Ondo, Delta, Cross River, Akwa Ibom, Rivers and Bayelsa.



#### DEVELOPMENT NEED

Nigeria has a **2.2 million metric ton demand gap for fish**, largely covered by imports. Rapid population growth calls for increased food production to satisfy increased protein demand.



#### EXPECTED DEVELOPMENT OUTCOME

**Improve livelihood** prospects for smallholder producers and improve the nutritional situation of women and children.



#### STAKEHOLDERS IMPACTED

**Households, fisheries' workers, small-scale fisheries**



#### SAMPLE ENABLING ENVIRONMENT

**National Agriculture Policy** prioritizes fisheries as a key pillar of the Nigerian food sector; **A 30% tax concession** available for 5 years to industries that attain a minimum 80% of local raw materials utilization in agribusiness.

**IMP CLASSIFICATION:** Benefit Stakeholders



#### MARKET SIZE CONSIDERATIONS

**60%** of Nigeria's fish **demand** is covered by **imports**. Fish consumption constitutes approximately 50% of the population's animal protein intake



#### INDICATIVE RETURN PROFILE

**20% - 25% ROI**



#### TIMEFRAME EXPECTATION

**Short Term (0–5 years):** The investment timeline for lake fish farming is 3-4.5 years



#### SELECTION OF ACTORS

**Investors:** Cultivating New Frontiers in Agriculture (CNFA), AfDB

**Companies:** Nigeria Farmer's Group, Cephas Agricultural Management, Aqua-Agro Farmers, A.S.A. Farms

**Public sector:** Federal Ministry of Agriculture, NIRSAL, CBN



#### CASE STUDY & BACKGROUND RESOURCES






A.S.A. Farms

 **SAMPLE INVESTMENT OPPORTUNITY AREA**  
**Deep Seaports**



**Business Model:** Construct and operate deep sea-ports.

 **INFRASTRUCTURE**  
**Transport**

-  **GEOGRAPHY**  
South-West, Niger-Delta
-  **DEVELOPMENT NEED**  
The quality of Nigeria's port infrastructure ranks **110 of 144** countries. Nigeria's sea ports handle **68%** of West Africa's maritime trade. Significant shortfalls exist. Congestion due to poor port and associated transport infrastructure **created losses of NGN 3.5 trillion (USD 9.7 billion)** in 2018 at Nigeria's maritime logistic hubs.
-  **EXPECTED DEVELOPMENT OUTCOME**  
Increase access to safe modes of transportation particularly for international trade businesses.
-  **STAKEHOLDERS IMPACTED**  
Manufacturing companies, industries, SMEs and freight companies.
-  **SAMPLE ENABLING ENVIRONMENT**  
**The Coastal and Inland Shipping (Cabotage Act) No 5** facilitates private participation in coastal and inland waterway transport services.

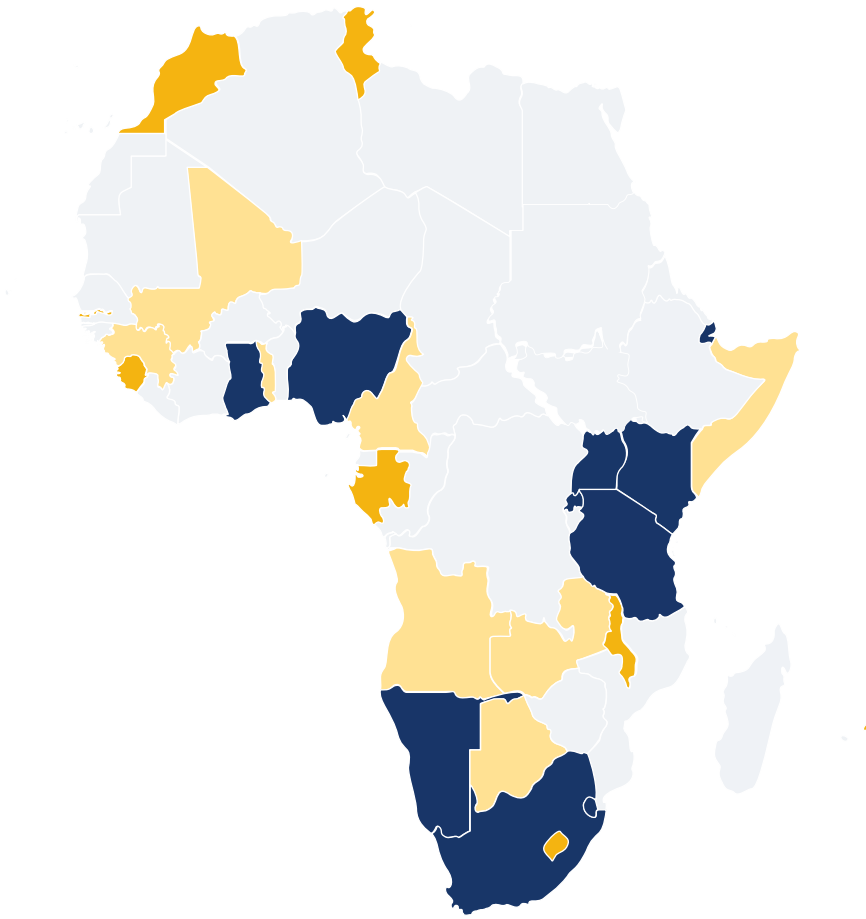
**IMP CLASSIFICATION:** Contribute to solution.

-  **MARKET SIZE CONSIDERATIONS**  
The Infrastructure Master Plan estimates Nigeria's sea ports need total **investment of USD 25 million over 30 years** (2014 - 2043).
-  **INDICATIVE RETURN PROFILE**  
**5% - 10% (in ROI)**
-  **TIMEFRAME EXPECTATION**  
**Long Term (10+ years):** Based on benchmark projects, constructing a deep seaport could take up to 3 years to complete and 15 - 20 years to generate cash flow.
-  **SELECTION OF ACTORS**  
**Investors:** United Capital, Lekki Port Investment Holding  
**Companies:** Lekki Port LFTZ Enterprise Limited, Loius Berger  
**Public sector:** Federal Ministry of Transport, Nigerian Port Authority
-  **CASE STUDY & BACKGROUND RESOURCES**  
[Lekki Port](#)

# 21 SDG Investor Maps completed or underway on the African continent



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Completed



Under Finalisation



Ongoing



# Background: Moving Beyond Environmental, Social and Governance (ESG) to Sustainability



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## Environmental, Social and Governance (ESG)

Risk management approach focused on enterprise / portfolio value

- **How the world impacts me** i.e., outside-in impacts and risks
- Goal of **creating enterprise or portfolio value**, regardless of whether this destroys system value
- **Incrementalist**
- Explicitly and consciously **ignores and rejects sustainability thresholds**

## Sustainability

Meet needs of present without compromising ability of future generations to meet their needs

- **How I impact the world** (which tells me how the world impacts me), i.e., inside-out impacts and risks
- Goal of **creating system value (upon which ongoing enterprise or portfolio value depend)**
- Normative and **transformational**
- **Respects ecological & social foundation thresholds** that define sustainability

# SDG Impact Standards for Enterprises, Bond Issuers, PE Funds & Financing Sustainable Development



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## Enterprises

**Status:** Version 1.0 released in July 2021.

**Ongoing:** Development of assurance.



## Bond Issuers

**Status:** Version 1.0 released in March 2021.

**Ongoing:** Development of guidance and assurance model.



## PE Funds

**Status:** Version 1.0 released October 2020.

**Ongoing:** Development of guidance and assurance model.



## Development Finance

**Status:** Published in May 2021.

**Ongoing:** Pilots and development of guidance.

Access all SDG Impact Standards via <https://sdgimpact.undp.org/practice-standards.html>