



# Programming Opportunities in the Caribbean Region – Public Sector

Division of Mitigation and Adaptation

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# Where we focus



## Reduced Emissions from:



Energy generation  
and access



Transport



Buildings, cities,  
industries and  
appliances



Forests and  
land use

## Increased Resilience of:



Livelihoods of people  
and communities



Health, food and  
water security



Infrastructure and  
the built environment



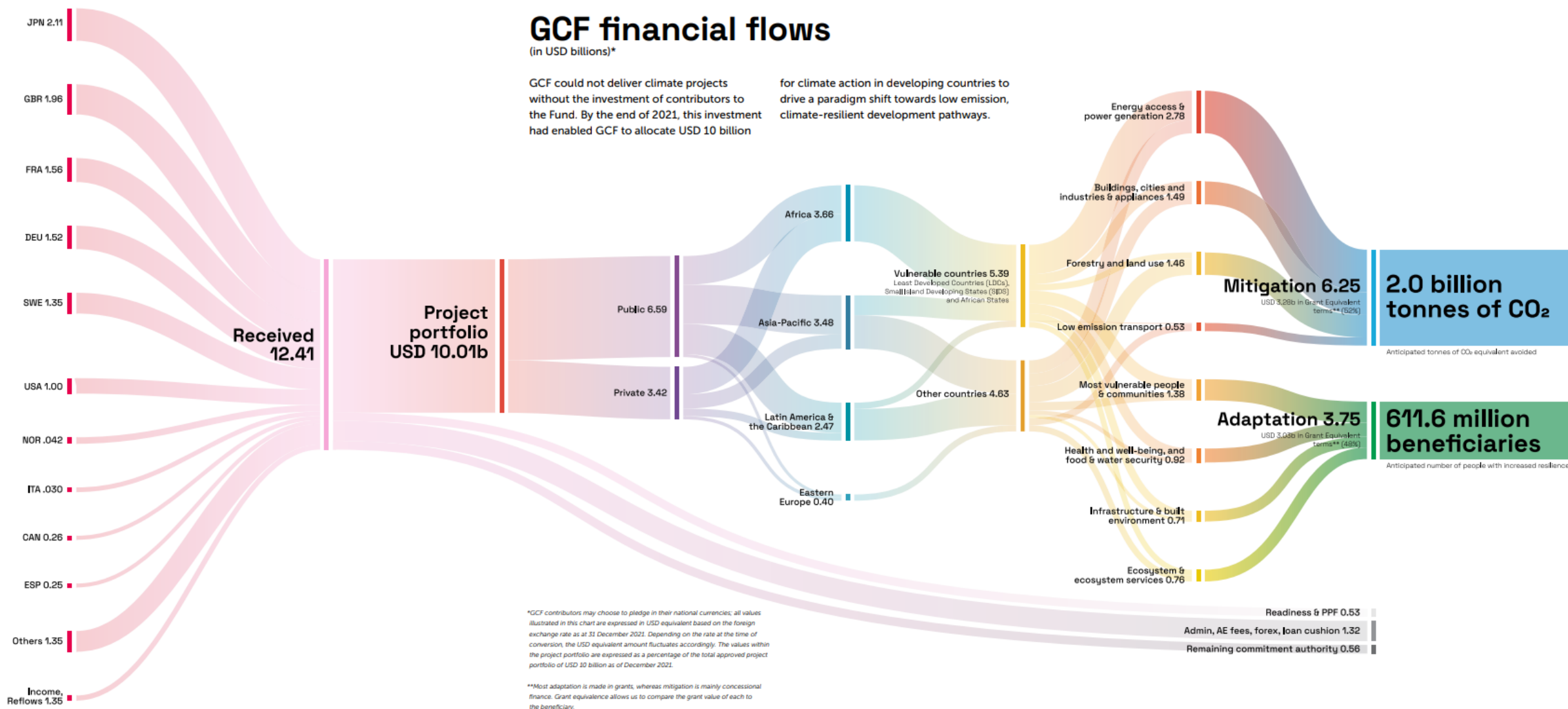
Ecosystems and  
ecosystem services

# Paradigm Shifting Pathways per sector



Sectors (Sectoral Guides)	Paradigm Shifting Pathways
Agriculture and food security	<ul style="list-style-type: none"> <li>a. Promoting Resilient Agroecology</li> <li>b. Facilitating Climate Informed Advisory and Risk Management Services</li> <li>c. Reconfiguring Food Systems</li> </ul>
Cities, buildings, and urban systems	<ul style="list-style-type: none"> <li>a. Decarbonization of urban energy systems</li> <li>b. Energy efficiency in building stock</li> <li>c. Compact and resilient urban development</li> <li>d. Circular urban economy</li> </ul>
Ecosystem and ecosystems services	<ul style="list-style-type: none"> <li>a. Ecosystem-based Management of Terrestrial and Freshwater Ecosystems</li> <li>b. Ecosystem-based Management of Coastal and Marine Ecosystems</li> </ul>
Forest and land use	<ul style="list-style-type: none"> <li>a. Protecting natural forests and landscapes</li> <li>b. Restoring degraded forests and other landscapes</li> <li>c. Sustainable management of productive forest landscapes</li> </ul>
Energy generation and access	<ul style="list-style-type: none"> <li>a. Low Emission Energy Generation</li> <li>b. Efficient and Reliable Energy Transmission, Distribution, and Storage</li> <li>c. Promoting Access to Clean Energy</li> </ul>
Water security	<ul style="list-style-type: none"> <li>a. Enhance water conservation, water efficiency and water re-use</li> <li>b. Strengthen integrated water resources management and water management</li> </ul>
Health and well-being	<ul style="list-style-type: none"> <li>a. Promote climate-resilient health systems and services</li> <li>b. Facilitate climate-informed advisory and risk management services and community action</li> </ul>
Low emission transport	<ul style="list-style-type: none"> <li>a. Accelerate shift to low emissions public transport</li> <li>b. Rapid electrification of transport system</li> <li>c. New generation zero-emission fuels</li> </ul>
Energy efficiency	<ul style="list-style-type: none"> <li>a. Scaling up Industrial Energy Efficiency</li> <li>b. Enhancing "Space" Energy Efficiency</li> <li>c. Enabling Market Switch to Highest Efficiency Appliance/Equipment</li> </ul>
Climate information and early warning systems	<ul style="list-style-type: none"> <li>a. Climate Information Services</li> <li>b. Impact-Based Multi-Hazard Early Warning Systems and early action</li> <li>c. CIEWS for investment and financial decisions to reduce long-term disaster risks</li> </ul>

# GCF Financial Flows – up to 2021



## 1-5 March 2021





## Programming Opportunities – DMA Pipeline



- ✓ **Water management:** Wastewater reuse, circular economy – Barbados
- ✓ **Water security:** Climate Resilience Water Sector – Bahamas
- ✓ **Transport:** E-mobility – Jamaica & Barbados
- ✓ **Agri & Food Security:** Climate-resilient agriculture – Belize
- ✓ **Energy sector** (grid upgrades) - Regional
- ✓ **Blue Economy** – Regional (Blue-Co)

# 1. CCCCC<sub>3</sub>R-CREWS Barbados



- **Objective:** Facilitate the enhancement of the health, wellbeing, and productivity of Barbadians through the use of carbon neutral and climate resilient water and management technologies and strategies that ensures water is *protected, management, recycled, reused and conserved (Circular economy)*.
- **Accredited Entity and Partners:** CCCCC/BWA
- **GCF financing requested:** USD 39.4M
- **Climate expected impact:** tCO<sub>2</sub>e to be avoided - 35k, directly benefitting 50% of Barbadian and 100% indirectly (visitors excluded)
- **Paradigm shifting pathway:** Enhance water conservation, water efficiency and water re-use



## 2. Climate Resilience of the water sector in the Bahamas



- **Objective:** Enhance climate resilience of the water sector to extreme weather events in the Bahamas by improving water security. Planning & regulatory capacities will be enhanced through data and decision support systems which will target investments for increasing water supply and flood resilience.
- **Accredited Entity and Partners:** CDB
- **GCF financing requested:** USD 7.0M
- **Climate expected impact:** 173,600 estimated direct and 381,000 indirect for 100% of Bahamas population
- **Paradigm shifting pathway:** Strengthen integrated water resources management and water management





### 3. E-mobility program for sustainable cities in Latin America & The Caribbean (Jamaica & Barbados)



- **Objective:** In a highly urbanized region (82%), the proposed Program links e-mobility with sustainable urban transport systems development and climate resilience; by enabling uptake of EVs and tackling persistent financing barriers of high CAPEX, performance risks and low profitability (supporting transformative urban mobility intervention).
- **Accredited Entity and Partners:** IDB
- **GCF financing requested:** USD 200M
- **Climate expected impact:** 6,850,000 tCO<sub>2</sub>eq avoided (initial estimate of indicative pipeline). 1.45m direct & 8.9m indirect beneficiaries.
- **Paradigm shifting pathway:** Accelerate shift to low emissions public transport



## 4. Building the capacity of sugarcane farmers in northern Belize



- **Objective:** Build the adaptive capacity of sugarcane farmers in Northern Belize to climate change impacts.
- **Accredited Entity and Partners:** CCCCC
- **GCF financing requested:** USD 9.9M
- **Climate expected impact:** 45,000 direct (& 300,000 indirect) beneficiaries, longer term impact of improved farm practices, soil carbon storage. GHG reduction and climate impacts analysis to be undertaken at FP stage.
- **Paradigm shifting pathway:** Promoting Resilient Agroecology



## The Energy Sector – GCF focus on SIDs



### **GCF to focus on resilience and adaptation through the following:**

- Climate proofing critical infrastructure, including grids, substations, and generation.
- Real-time metering and fault detection for quick detection and recovery.
- Security of supply by bringing renewable generation closer to end customers and essential services, and emergency supply through battery storage on the grid/substations close to load centers.
- Renewable energy to displace fossil fuel and diversify.

# Blue Co – A Sustainable Blue Economy Co Investment Facility

*A blended finance facility partnership that will make a substantial impact towards meeting climate change and SDG14 targets – particularly in Small Island Developing States (SIDS)*

- Blue Co will blend flexible investment capital into an open investment platform and will crowd in development partners and the private sector into dozens of underlying projects in five broad categories.
- By deploying highly flexible, and patient capital, the facility will invest in Blue Shipping, Marine Protection, Blue Carbon, Debt Swaps for Nature and Blue Economy and will also crowd in resources from bilateral donors, philanthropies and partners to jointly provide different levels of risk mitigation to crowd in private sector investments through targeted interventions. Crowding-in can will be possible at both the fund, and the project level. At the project level, the facility will explore crowding-in local financial markets where possible.

# Sustainable Blue Economy Co-Investment Facility

Innovative financial instruments  
like blue bonds, blue carbon,  
debt for nature swaps

**Blue Co**

Flexible and delegated sub-  
project selection based on  
country and market needs

Decarbonizing  
shipping and  
port services

Waste  
management  
and circular  
economy

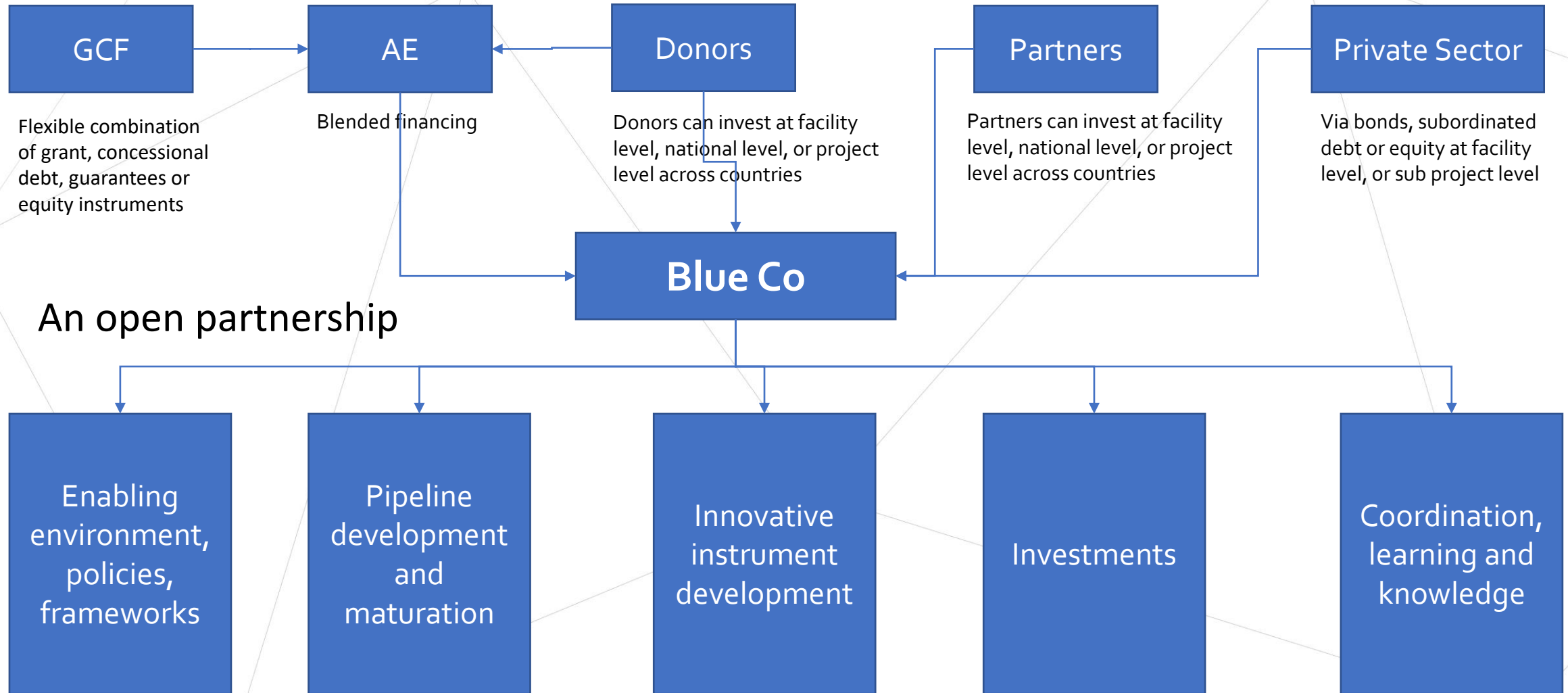
Coastal and  
marine  
ecosystems  
protection  
(MPA, Blue  
Carbon)

Coastal  
livelihoods  
protection and  
promotion  
(Fisheries, seafood,  
tourism)

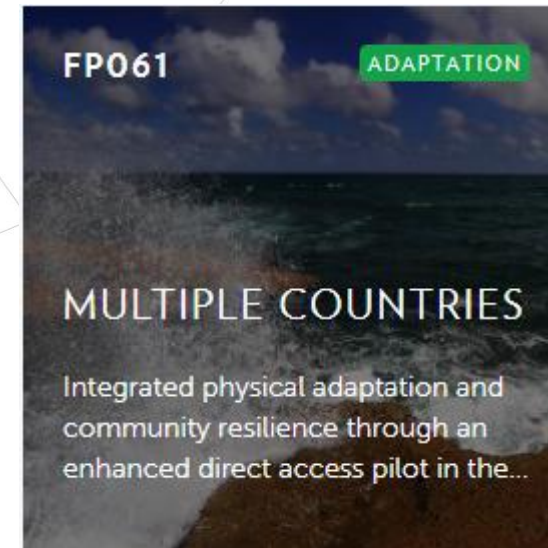
Offshore  
energy

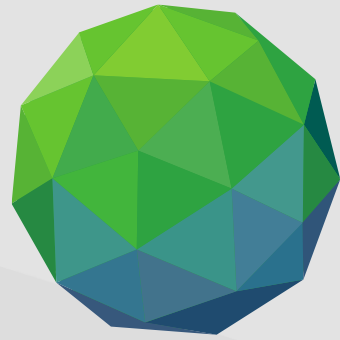


# Sustainable Blue Economy Co-Investment Facility



# Portfolio of approved projects





**GREEN  
CLIMATE  
FUND**

# BLUE ECONOMY

4-pronged approach

Existing initiatives



Instrument

Partners

*Transformational planning / programming*

CI Tuna/Pacific  
MCT Micronesia  
Coral Reef Fund (UN)

- National planning
- Expansion of Pas
- Grey / green infrastructure
- Protecting natural capital

**Grants / GCF Readiness**

Countries (NDC/NAP)  
Communities

*Catalyzing climate innovation*

UNDP Cuba;  
KFW Blue Action Fund

- Community resilience
- Sustainable Fisheries
- Technology / Innovation

**Loans, Grants**

Countries; Public AEs

*Mobilizing financing at scale*

PCA / Coral Reef Fund – investment window

- Marine enterprise and innovation
- Innovative financing systems (Blue carbon/insurance)
- Coastal infrastructure ('test')

**Loans, equity, guarantees**

Institutional investors,  
Private sector AEs, New Entities (eg Credit Suisse);

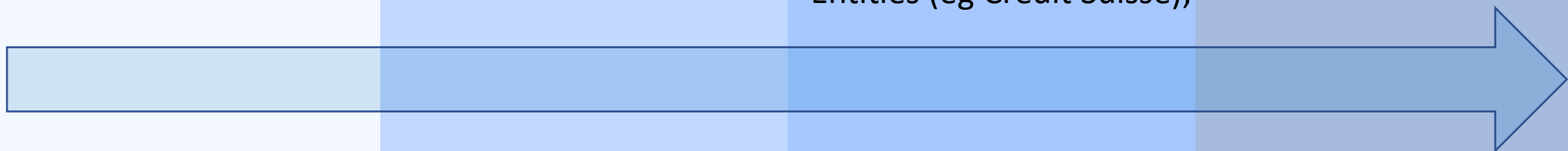
*Aligning finance with sust. dvpt.*

CI Tuna/Pacific

- Sustainable fisheries (maintaining revenue systems)
- Coastal infrastructure (upscale)
- National Banks

**Loans, equity**

Domestic financial institutions; Budgets



# Key Regional Challenges – The Caribbean



CID	FUTURE CHANGES	TREND / ATTRIBUTION
HEAT AND COLD ⓘ		
Mean surface temperature	↗ High confidence of increase	⬆ Upward trend without attribution
Extreme heat	↗ High confidence of increase	↗ Upward trend with medium confidence of attribution
WET AND DRY ⓘ		
Mean precipitation	↘ High confidence of decrease	—
Aridity	↗ Medium confidence of increase	—
Agricultural and ecological drought	↗ Medium confidence of increase	—
WIND ⓘ		
Tropical cyclone	↗ Medium confidence of increase	—
COASTAL ⓘ		
Relative sea level	↗ High confidence of increase	⬆ Upward trend without attribution
Coastal flood	↗ High confidence of increase	—
Coastal erosion	↗ High confidence of increase	—
Marine heatwave	↗ High confidence of increase	⬆ Upward trend without attribution
Ocean acidity	↗ High confidence of increase	⬆ Upward trend without attribution
OTHERS ⓘ		
Atmospheric CO <sub>2</sub> at surface	↗ High confidence of increase	⬆ Upward trend without attribution

<https://interactive-atlas.ipcc.ch/>