



Programming Opportunities in the Caribbean Region – Public Sector

Division of Mitigation and Adaptation

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Where we focus

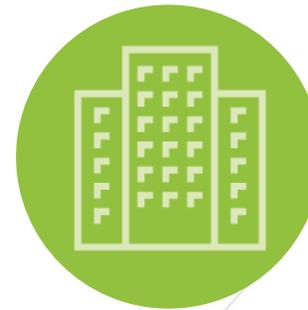
Reduced Emissions from:



Energy generation
and access



Transport



Buildings, cities,
industries and
appliances



Forests and
land use

Increased Resilience of:



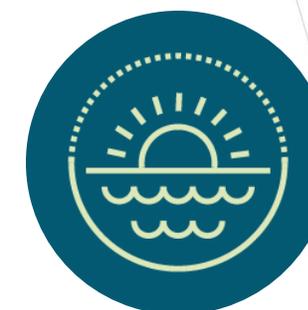
Livelihoods of people
and communities



Health, food and
water security



Infrastructure and
the built environment



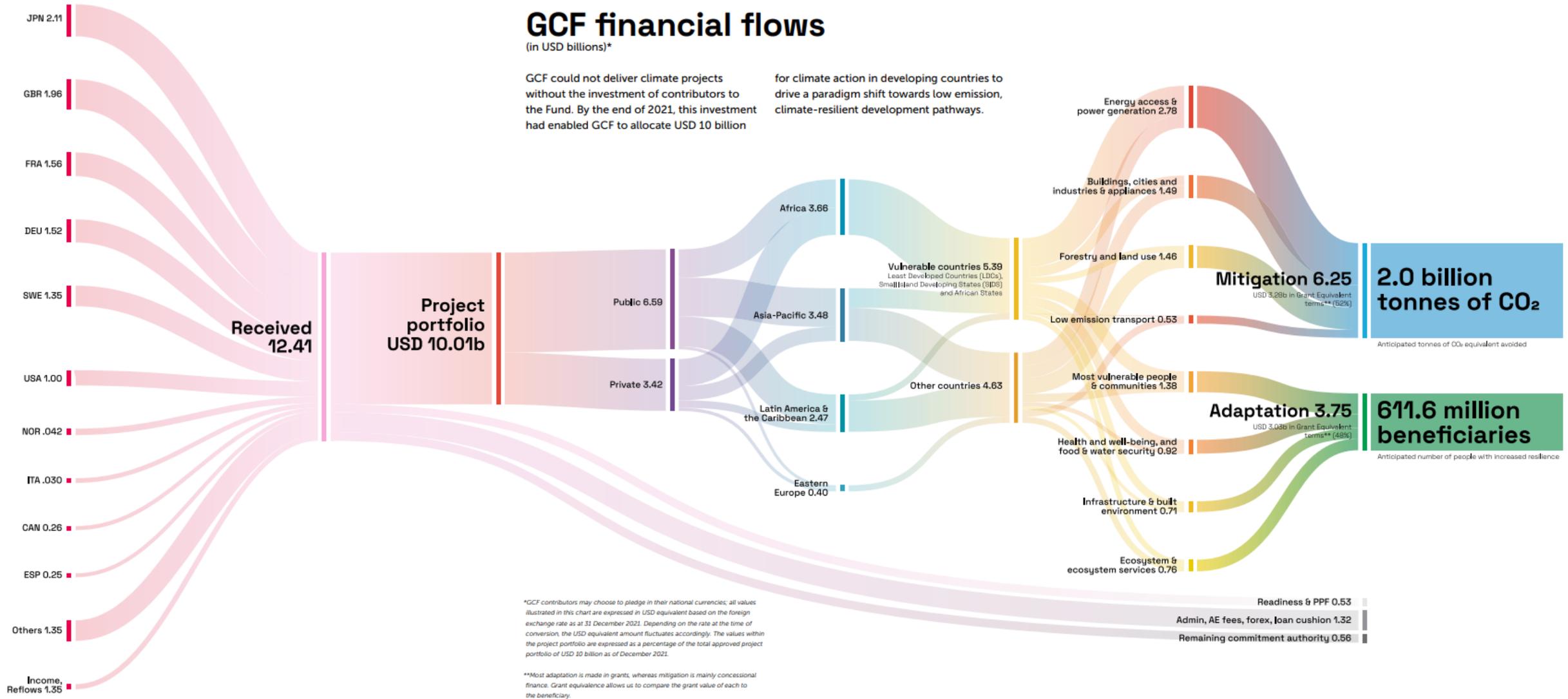
Ecosystems and
ecosystem services

Paradigm Shifting Pathways per sector



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

GCF Financial Flows – up to 2021



*GCF contributors may choose to pledge in their national currencies; all values illustrated in this chart are expressed in USD equivalent based on the foreign exchange rate as at 31 December 2021. Depending on the rate at the time of conversion, the USD equivalent amount fluctuates accordingly. The values within the project portfolio are expressed as a percentage of the total approved project portfolio of USD 10 billion as of December 2021.

**Most adaptation is made in grants, whereas mitigation is mainly concessional finance. Grant equivalence allows us to compare the grant value of each to the beneficiary.

Caribbean Regional Engagement

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. CCCCC₃R-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:** tCO₂e 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 tCO₂eq 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

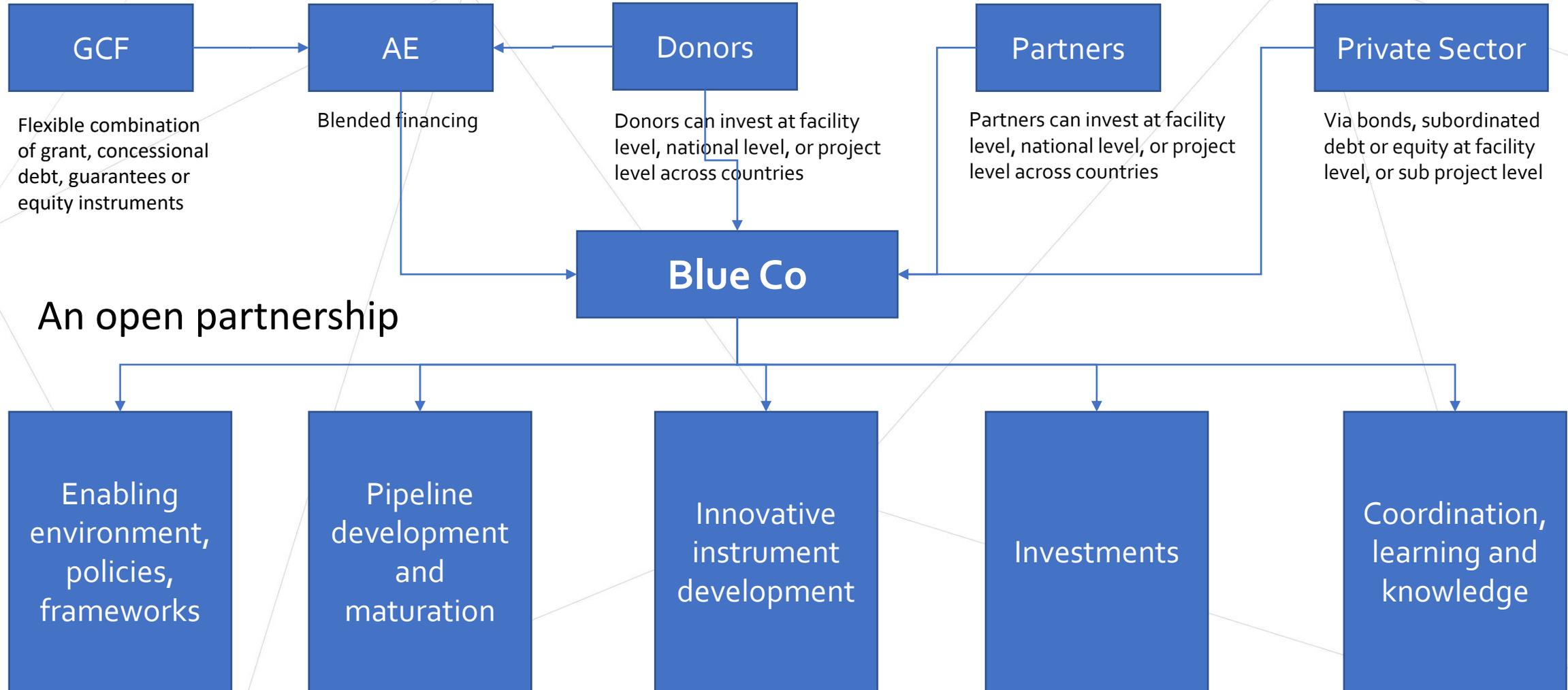
Waste
management
and circular
economy

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



FP133 ADAPTATION

ANTIGUA AND BARBUDA

Resilience to hurricanes in the building sector in Antigua and Barbuda

FP101 ADAPTATION

BELIZE

Resilient Rural Belize (Be-Resilient)

FP060 CROSS-CUTTING

BARBADOS

Water Sector Resilience Nexus for Sustainability in Barbados (WSRN S-Barbados)

FP059 ADAPTATION

GRENADA

Climate Resilient Water Sector in Grenada (G-CREWS)

FP020 MITIGATION

MULTIPLE COUNTRIES

Sustainable Energy Facility for the Eastern Caribbean

FP061 ADAPTATION

MULTIPLE COUNTRIES

Integrated physical adaptation and community resilience through an enhanced direct access pilot in the...



**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);

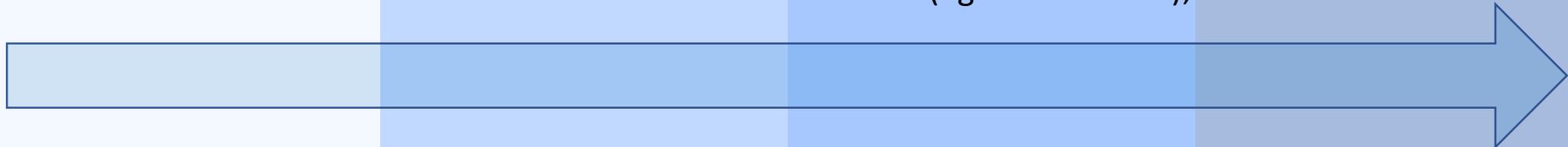
Aligning finance with sust. dvpt.

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 ₂ at surface	↗ High confidence of increase	↗ Upward trend without attribution

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