



14 May 2026

UNEP FI Climate Adaptation & Resilience Team

Strengthening Private Sector's Business Resilience





About UNEP FI

A project in partnership with:


unepfi.org

Our work and role



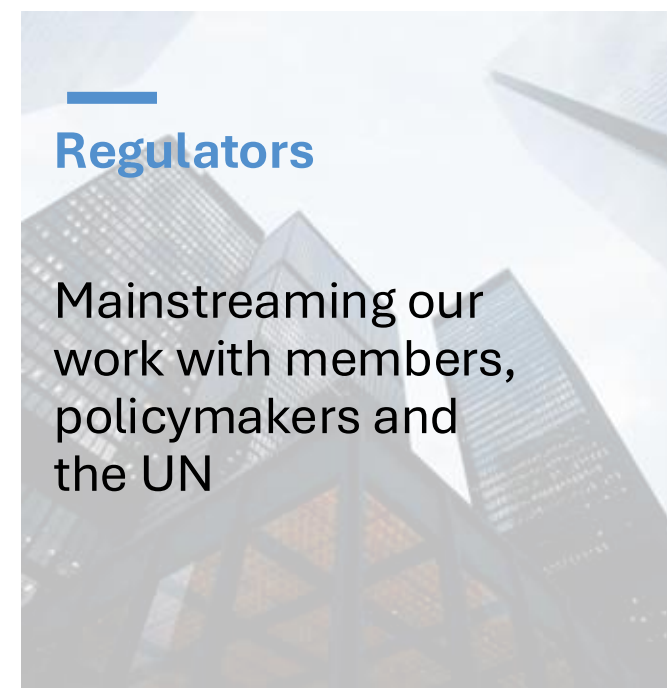
United Nations

Amplifying the voice of the finance sector in UN work



Private sector

Facilitating a global membership of over 550 banks and insurers, engaging with investors



Regulators

Mainstreaming our work with members, policymakers and the UN

About the Adaptation & Resilience team

A&R core team



Paul Smith
A&R Lead



Gary Power
Snr. Consultant



Diana Diaz
Consultant

A core team focused on A&R across UNEP FI and wider partners

UNEP FI thematic areas



Climate



Human rights



Nature



Healthy and inclusive economies

Partner frameworks & programs (non-exhaustive)



Joint MDB working group members

UNEP FI Adaptation and Resilience strategic engagements

ARIC

Adaptation & Resilience Investors Collaborative

Introduction

A partnership of development finance institutions working to accelerate and scale private sector investment in climate adaptation and resilience.

Membership/Engagement scope

<p>DFIs</p>	<p>MDBs Joint MDB Adaptation WG co-chairs</p>
<p>Other Global Institutions</p>	<p>Development Agencies Foreign, Commonwealth & Development Office</p>

UNEP FI role

Secretariat and technical lead across workstreams.

CAIL

Climate Adaptation Information & Learning Project

Introduction

Facilitating Adaptation and Resilience-related information exchange across finance actors through regional Communities of Practice (CoP).

Membership/Engagement scope

Representative regional CoPs across LAC, SSA and SEA encompassing actors across;

- Financial Institutions
- Finance sector institutions
- Real economy actors



UNEP FI role

Identifying and leading CoP design and delivery across 2024/2025.

PRB

Principles for Responsible Banking Adaptation WG

Introduction

A network of global banks working to mainstream adaptation financing and increase portfolio resilience.

Membership/Engagement scope



UNEP FI role

Program lead, developing implementation methodology and guidance materials.

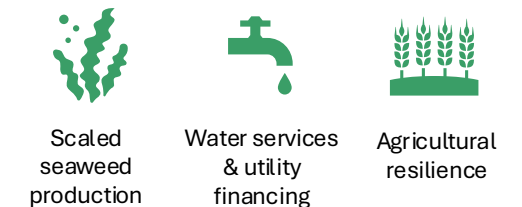
RFM

Resilience Finance Mobilisation Project in Kenya

Introduction

Mobilising finance for priority A&R needs in Kenya across circular economy, water and Agricultural resilience thematics.

Membership/Engagement scope

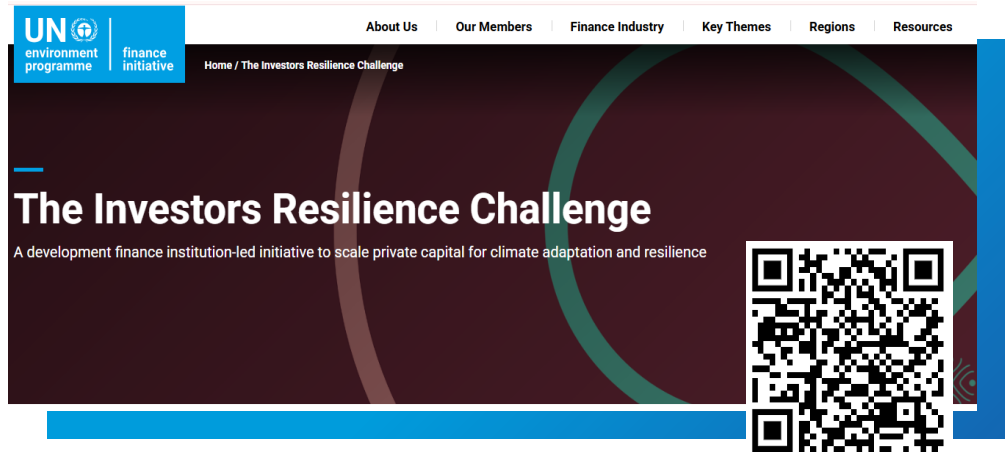


UNEP FI role

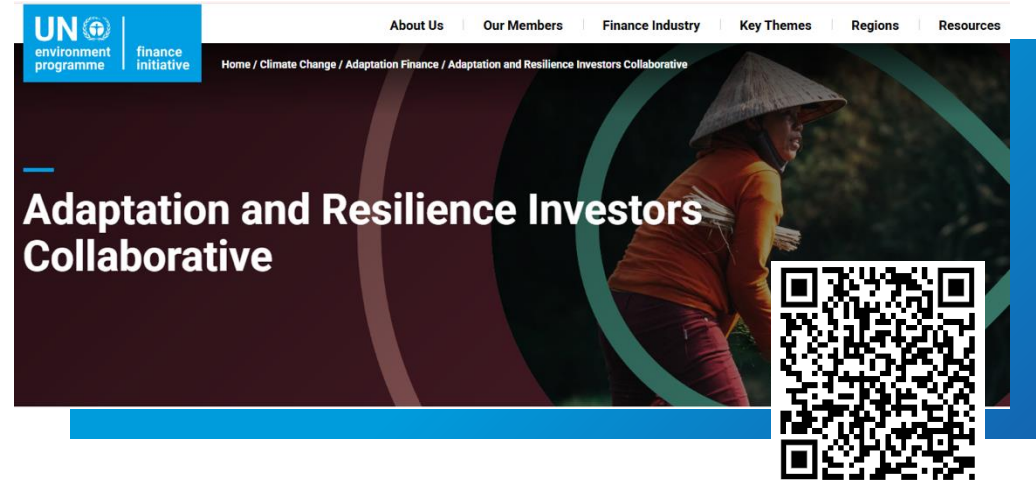
Program lead, developing financial pathways and connecting stakeholders in support of finance mobilisation.

Publications and work supporting A&R action

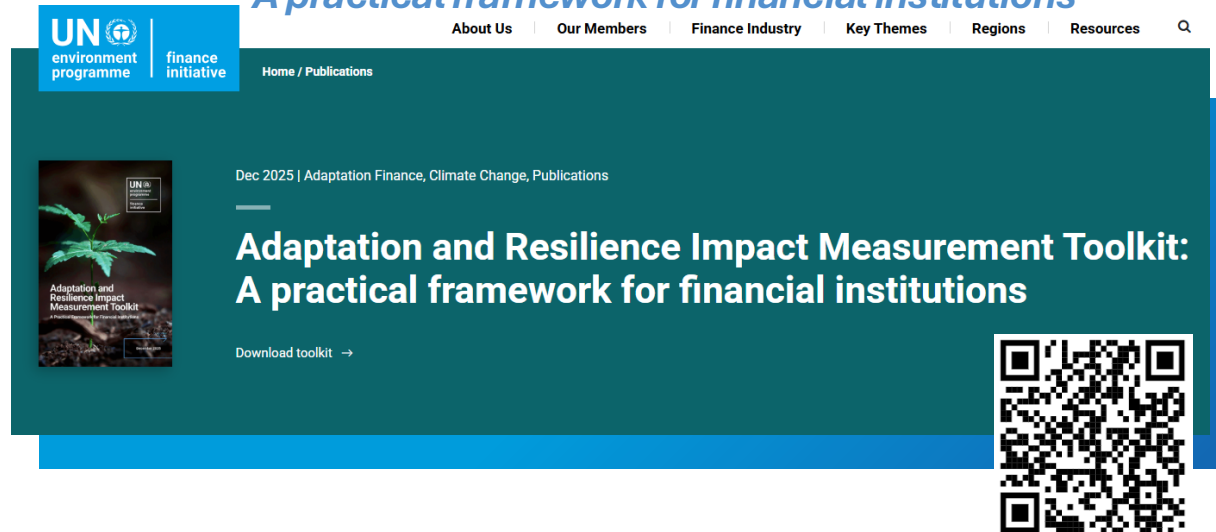
The ‘*Investors Resilience Challenge*’



The ‘*Adaptation & Resilience Investors Collaborative*’



The ‘*A&R Impact Measurement Toolkit: A practical framework for financial institutions*’





Understanding resilience

A project in partnership with:

Understanding the dimensions of resilience

Shareholder value creation

Value preservation

"Resilience of" / risk



Optimised CAPEX and OPEX



Reduced/ maintained cost of capital



Revenue generation capacity maintained



Regulatory compliance and reduced liabilities

Value generation

"Resilience through" / opportunity



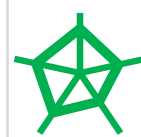
Improved access to capital



Product/service market share



New market opportunities opened



Asset optimisation



Increased asset valuation

Stakeholder value creation



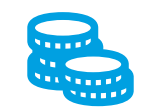
People

- Improved ability to adapt and withstand adverse climate conditions
- Community relations



Planet

- Optimised natural asset, and associated services, utilisation (reduced in efficiency/waste)



Economy











- Improved availability of climate resilient solutions
- Climate resilient services for end users
- Reduced negative socio-economic impacts

Focus of today

Physical climate risk introduction

Physical climate risk refers to the financial risks (and losses) that can arise from the adverse effects of current or future climate conditions.

Illustrative hazards driving physical climate risk

	Temperature variability		Sea-level rise
	Precipitation variability		Water stress
	Flood		Extreme rainfall
	Wildfire		Extreme heat
	Drought		Cyclones (hurricanes and typhoons)

Note: The physical climate risk drivers outlined are illustrative examples that may be material to an investment depending on context - additional resources are available in the Annex of this document to support investors in more comprehensively understanding and engaging on physical climate risk drivers

Illustrative climate-driven impacts across sectors

Agriculture

- Decline in yields quality and/or quantity
- Crop loss
- Increased pest and disease occurrence
- Post-harvest loss increases
- Decreased livestock productivity



Real Estate

- Devaluation of assets
- Increased operating costs due to higher energy demand for cooling
- Increased property damage/loss
- Higher temperatures reducing worker and machine productivity



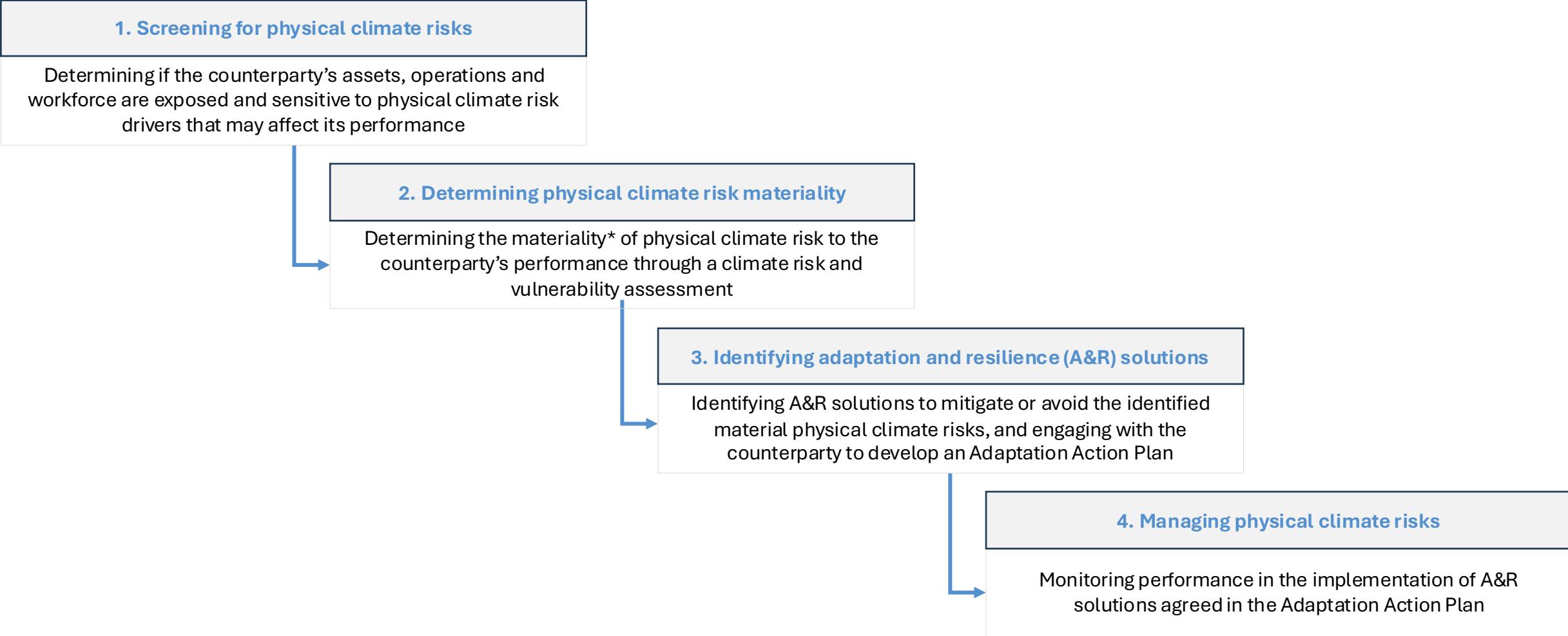
Manufacturing

- Inadequate water availability
- Increased energy costs for cooling
- Flood-induced damages
- Infrastructure damages
- Supply chain disruption



Assessing risk, its materiality and managing that risk

The high-level approach to physical climate risk assessment and management



*Materiality is defined as any climate hazard that may impact counterparty operations and service provision

Physical climate risk drivers

Understanding how physical climate risk drivers can impact a counterparty enables investors to evaluate and manage the potential financial implications

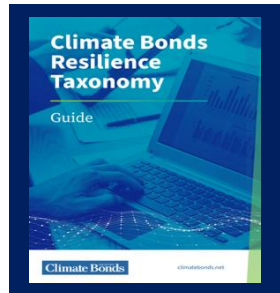
Impact channels & pathways

Direct	Counterparty's assets/ operations/ workers	The financial risks and associated impacts vary depending on <i>frequency</i> and <i>severity</i> of climate hazards and the climate resilience of a counterparty's assets, operations, workforce and business model.
Indirect	Supply chains	Financial risk can manifest through a corporate's supply chain, depending on factors such as the diversity and location of suppliers, and the natural resource intensity and shock resilience of its supplies.
	Markets of sale	Financial risks and impacts vary depending on climate-related events and climate-driven price shocks, and the company's capacity to shift customer base or pass through costs as appropriate/needed to customers.



Adaptation & Resilience solutions – representative taxonomies

Illustrative taxonomies utilised by organisations to identify and quality A&R solutions



PRIMARY Climate Resilience Theme	PRIMARY Sector	PRIMARY Sub-sector	SECONDARY Sector	Investment	Climate Resilience Solution (Y, N)	Output level Substantial Contribution	Climate Hazard Consequence	Environmental/Social/Economic Impact
Resilient Cities & Settlements	Buildings	Commercial buildings	Urban systems, Commercial trade, Hospitality, Financial services, Other services	Installation of Electrical protection	N	Reduced physical vulnerability due to minimized risk of electrical fire ignition	Wildfire Damage	Asset value loss due to wildfire damage
Resilient Cities & Settlements	Buildings	Commercial buildings	Urban systems, Commercial trade, Hospitality, Financial services, Other services	Installation of Emergency escape and access	N	Improved adaptive capacity due to facilitated evacuation and firefighter access	Wildfire Damage	Asset value loss due to wildfire damage
Resilient Cities & Settlements	Buildings	Commercial buildings	Urban systems, Commercial trade, Hospitality, Financial services, Other services	Installation of Emergency water supply	N	Reduced physical vulnerability due to on-site water availability for fire suppression	Wildfire Damage	Asset value loss due to wildfire damage
Resilient Cities & Settlements	Buildings	Commercial buildings	Urban systems, Commercial trade, Hospitality, Financial services, Other services	Installation of Fire resistant building materials, fixtures and equipment	N	Reduced physical vulnerability due to use of fire resistant construction materials	Wildfire Damage	Asset value loss due to wildfire damage



EU Taxonomy Navigator

Home > EU Taxonomy Compass > Activities by sector > EU Taxonomy Calculator > FAQ

Home > EU Taxonomy Compass > EU Taxonomy Compass

EU Taxonomy Compass

Filter by sector or activity

Sector	Activity	Climate mitigation	Climate adaptation	Water	Circular economy	Pollution prevention	Biodiversity
Arts, entertainment and recreation	Creative arts and entertainment activities		☑				
Arts, entertainment and recreation	Libraries, archives, museums and cultural activities		☑				
Arts, entertainment and recreation	Motion picture, video and television programme production, sound recording and music publishing activities		☑				
Construction and real estate activities	Installation, maintenance and repair of charging stations for electric vehicles in buildings (and parking spaces attached to buildings)	☑	☑	☑			

Installation, maintenance and repair of charging stations for electric vehicles in buildings (and parking spaces attached to buildings) contribution to climate adaptation

Description

Substantial contribution criteria

- The economic activity has implemented physical and non-physical solutions (adaptation solutions) that substantially reduce the most important physical climate risks that are material to that activity.
- The physical climate risks that are material to the activity have been identified from those listed in Annex A to this Annex by performing a robust climate risk and vulnerability assessment with the following steps:
 - screening of the activity to identify which physical climate risks from the list in Annex A to this Annex may affect the performance of the economic activity during its expected lifetime;
 - where the activity is assessed to be at risk from one or more of the physical climate risks listed in Annex A to this Annex, a climate risk and vulnerability assessment to assess the materiality of the physical climate risks to the economic activity;
 - an assessment of adaptation solutions that can reduce the identified physical climate risk.
 The climate risk and vulnerability assessment is proportionate to the scale of the activity and its expected lifespan, such that:
 - for activities with an expected lifespan of less than 10 years, the assessment is performed, at least, by using climate projections at the smallest appropriate scale;
 - for all other activities, the assessment is performed using the highest available resolution, state-of-the-art climate projections across the existing range of future scenarios⁽¹⁾ consistent with the expected lifetime of the activity, including, at least, 10 to 30 year climate projections necessary to map investments;
- The climate projections and assessment of impacts are based on best practice and available information.

Do no significant harm criteria

Climate mitigation

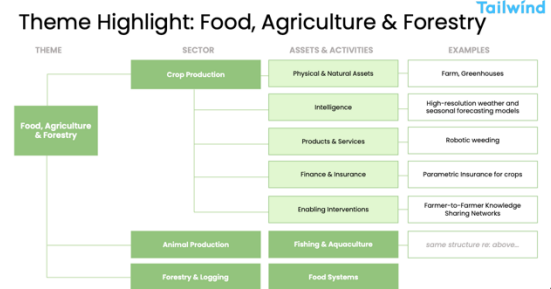
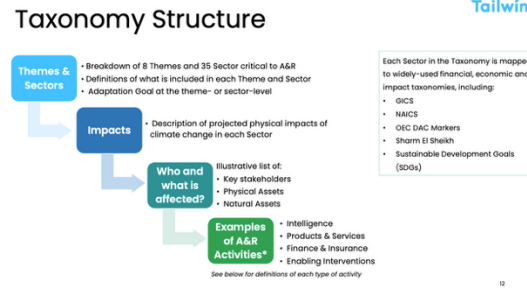
Water

Circular economy

Pollution prevention

Biodiversity

Minimum safeguards





Illustrative private sector A&R case

A project in partnership with:

Private sector A&R Case: Ethiopian Agribusiness

Investor overview

The investor is an agriculture focused fund manager, with experience in coffee investment in Kenya. The investor is looking to expand to wider East African markets to diversify its portfolio and is planning an equity investment in a target company.

Investment target

The investment target is an agribusiness producing coffee in Ethiopia. The business has a wide variety of offtakers for the washed coffee beans it produces, but has a key dependency on its inputs with a single supplier agreement in place across its input requirements (fertiliser etc.).

Investment geography

The agribusiness owns and operates its coffee farm in Jimma-Limu, Ethiopia



Integrating A&R action into due diligence

Investment stage | Screening due diligence

Objective | Identifying physical drivers that may materially affect the counterparty's performance

Activity

The investor screens the agribusiness company's farm for its exposure and sensitivity to physical climate risk drivers using the Water Risk Filter tool (further/wider tool availability is included in the Annex of this playbook)

The initial assessment highlights that **flood** and **drought** may materially affect the company's operations. Droughts can stress coffee plants and make them more susceptible to diseases, while floods can damage crops and wash away soil nutrients.

Based on these findings the investor elects to undertake a physical climate risk and vulnerability assessment during the next stage of due diligence.

Add a new site

WWF Risk Filter

Company name: Agribiz | Site name: Coffee1

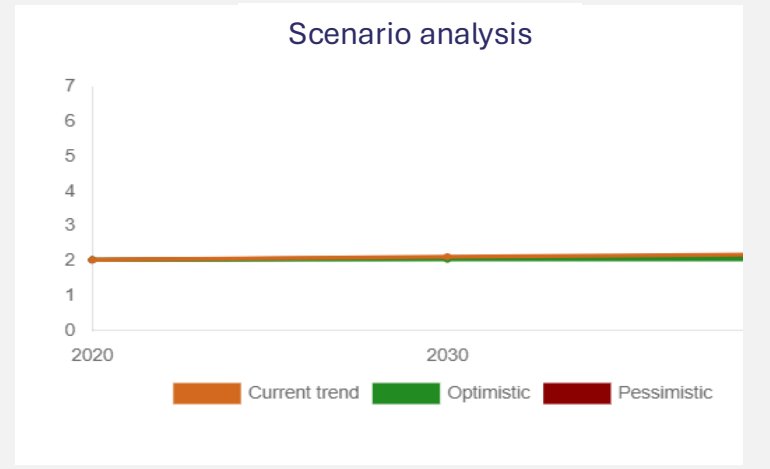
Industry: Agriculture (plant products) | Commodity (optional): Agri (plants): Coffee

Group (optional): SCM 1 - Tier 4: Raw materials | Business importance: High

Location: Yirga Ch'efe, Fiseha Genet, Gedeo, Southern Nations, Nationalities and People's Region

Hazard	Risk tier
Drought	Med-High
Flood	High

Risk tiers trigger a physical climate risk and vulnerability and adaptive capacity assessment



<https://riskfilter.org/water/explore/>

Output | Inherent physical climate risk rating **High** | unepfi.org | 15

Integrating A&R action into due diligence

Investment stage In-depth due diligence

Objective Conducting physical climate risk and vulnerability assessment

Activity The investor performs a climate risk and vulnerability assessment at two levels to determine risk materiality and identify the required A&R solutions to formalise in the adaptation plan which forms part of the ESAP.

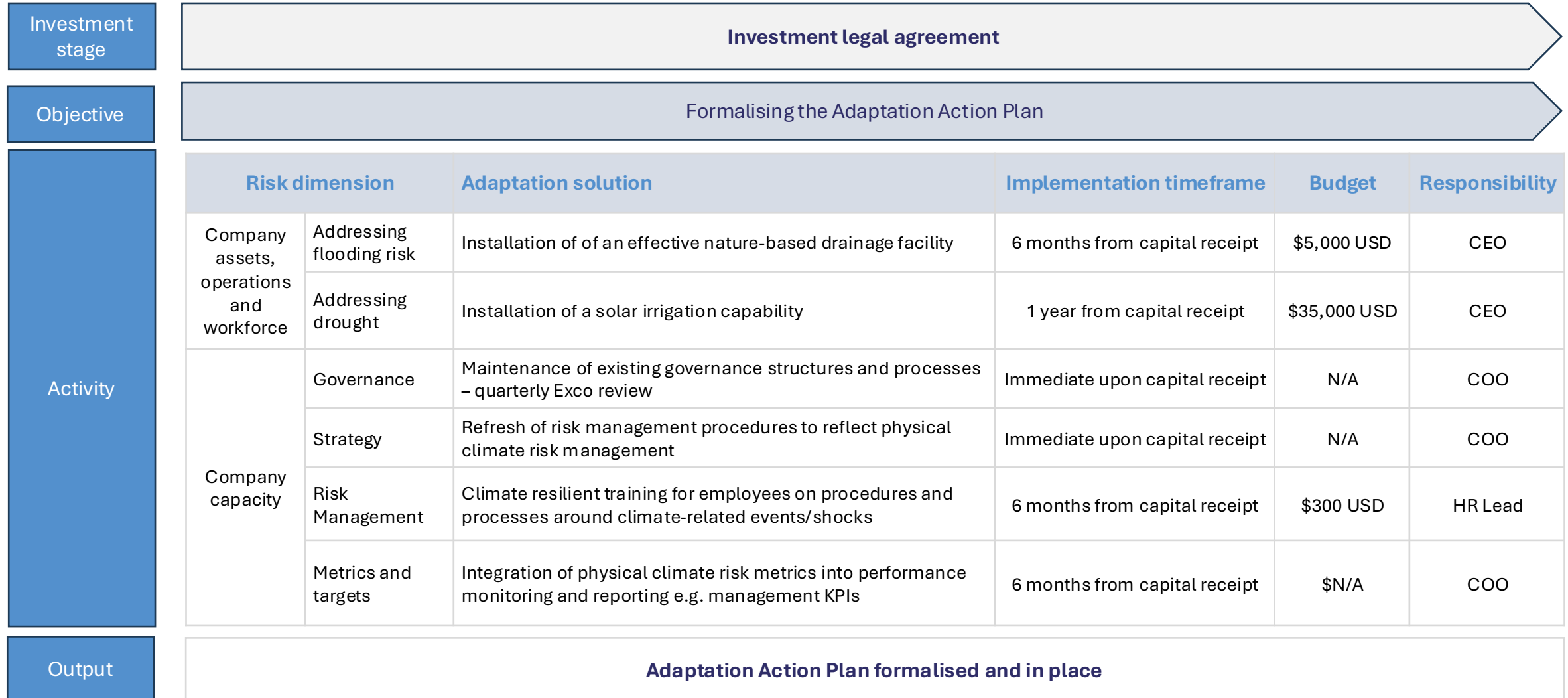
Company's assets, operations and workforce vulnerability | **Company's capacity, commitment and track record to manage physical climate risk**

Dimension	Guiding questions	Response	Dimension	Guiding questions	Risk rating
Addressing flooding risk	Which measures are in place to avoid or reduce the adverse effects of flooding and droughts on the coffee plantations, if any?	Drainage	Governance	Has the company allocated roles and responsibilities for the identification, assessment and management of physical climate risks?	Adequate
			Strategy	Is the company's business model concentrated or diversified in terms of suppliers or customer base? Has the company developed an Adaptation Plan?	Inadequate
Addressing drought		Solar irrigation	Risk Management	Is the identification, assessment and management of physical climate risks integrated in the company's risk management system? Does the company have any track record in identifying, assessing and managing physical climate risks? Has the company contracted an insurance policy to cover for the adverse consequences of climate-related events?	Inadequate
			Metrics and targets	Does the company have metrics in place to measure its operational and financial performance in relation to physical climate risk and resilience and, where set, progress towards any climate-related targets?	Inadequate

Risk rating determined by the investor. The investor may also incorporate financial materiality assessment based residual climate risk rating

Output Residual physical climate risk rating **Med-High**

Integrating A&R action into legal agreements



Integrating A&R action into monitoring and reporting

Investment stage	Monitoring and Reporting					
Objective	Evaluate performance in the implementation of the Adaptation Action Plan					
Activity	Risk dimension	Adaptation solution	Implementation timeframe	Indicator for completion	Budget	Responsibility
	Addressing flooding risk	Nature-based drainage facility	6 months from capital receipt	# trees planted	\$5,000 USD	CEO
	Addressing drought	Solar irrigation capability	1 year from capital receipt	Off-grid kW capacity	\$35,000 USD	CEO
	Governance	Quarterly Exco review	Immediate upon capital receipt	# Exco reviews held	N/A	COO
	Strategy	Risk management procedure refresh	Immediate upon capital receipt	% procedures reviewed	N/A	COO
	Risk Management	Climate resilient training	6 months from capital receipt	% employees trained	\$300 USD	HR Lead
	Metrics and targets	Physical climate risk metrics integration	6 months from capital receipt	# metrics reported	\$N/A	COO
Output	Residual physical climate risk rating				Low	

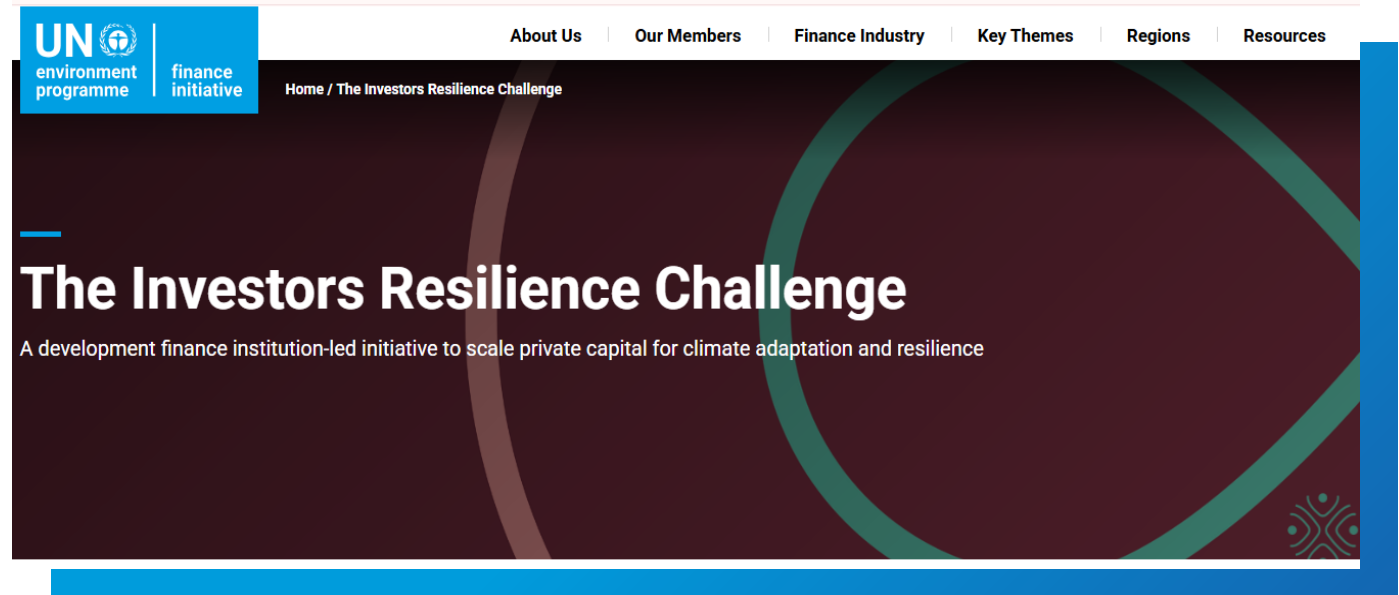
Investors should also consider counterparty reporting on climate hazard-related disruptions and impacts to support effective monitoring, reporting, and identification of additional adaptation and resilience needs.

Integrating A&R action into value add

Investment stage	Exit with value add					
Objective	Value demonstration					
Activity	Initiative	Shareholder value creation		Stakeholder value creation		
		<i>Value preservation</i>	<i>Value creation</i>	<i>People</i>	<i>Planet</i>	<i>Economy</i>
	Reduced farm's vulnerability	✓	✓		✓	
	Reduced/maintained cost of capital	✓	✓			
	Increased sales volume due to enhanced brand reputation		✓	✓		✓
	Asset valuation increase		✓			
Improved management of natural assets for adaptation and resilience			✓	✓	✓	
Output	Successful demonstration of financial, and wider, value creation within the investment, and long-term benefit realisation due to the implementation of A&R solutions					

UNEP FI and private sector resilience engagement

The ‘Investors Resilience Challenge’



An aerial photograph of a terraced rice paddy field. The terraces are arranged in a curved, concentric pattern, creating a rhythmic, wave-like structure. The water in the terraces reflects the sky, giving them a deep blue-green hue, while the surrounding rice plants are a bright, vibrant green. The overall effect is a rich, textured mosaic of colors and shapes.

Thank you

Please contact gary.power@un.org for any questions or outreach