Accessing Adaptation Finance for Nature-based Solutions under the Adaptation Fund Imèn Meliane, Programming and Innovation Team

# Adaptation Fund at a Glance

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Mandate to fund **concrete adaptation projects with tangible results on the ground**, in most climate-vulnerable developing countries & communities



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Pioneer & leader on innovative **'Direct Access' & 'Enhanced Direct Access' modalities** 

(34 National Implementing Entities out of 57 accredited IEs) – only 2 NIEs in the region

As urgency of climate change has risen, it has grown rapidly to over **\$1B funding today** 



## Key points to keep in mind

Concrete adaptation activities in the most vulnerable communities:

Visible and tangible impacts at the local level that can be scaled up No prescribed sectors or approaches:

Country-driven process that accommodates countries' priorities and adaptation reasoning Finances the full cost of adaptation:

No co-financing requirements

Direct Access: Funding can be provided directly to countries through NIEs

Programs submitted by MIEs cannot exceed 50% of cumulative resources

USD 20 million available per country under raised country cap

Other grants available outside of country cap

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**ADAPTATION FUND** 

### **Theory of Change** of the **Medium-Term Strategy** (2023 - 2027)

### GOAL

People, livelihoods and ecosystems are adequately protected from the adverse impacts of climate change with their adaptive capacity enhanced, resilience strengthened, and vulnerability reduced in the context of climateresilient and sustainable development.

### VISION

Developing country Parties are successfully enhancing adaptive capacity, strengthening resilience and reducing vulnerability to climate change through inclusive and transparent processes consistent with their adaptation needs and priorities under the Paris Agreement.

### MISSION

The Adaptation Fund serves the Paris Agreement by accelerating effective adaptation action and efficient access to finance, including through direct access, to respond to the urgent needs and priorities of developing countries. The Fund does so by supporting country-driven adaptation projects and programmes, innovation, and learning with concrete results at the local level that can be scaled up.

ACTION

scalable adaptation

that are aligned with

strategies and processes

EXPECTED RESULTS

1. Vulnerability reduced,

resilience strengthened,

and adaptive capacity

2. Access to finance and institutional capacities

3. Evidence for effective

action generated and

results scaled up

enhanced

enhanced

### **OUTCOMES: STRATEGIC PILLARS**

Linkages and synergies between support for adaptation action, innovation and learning and sharing are enhanced

## **CROSSCUTTING THEMES**

All of the Fund's activities and processes are designed to:

Promote locally based or locally led adaptation



**Enhance access to climate finance** and long-term institutional capacity



Empower and benefit the most vulnerable people and communities as agents of change

### Advance gender equality



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Enable the scaling and replication of results



Strengthen complementarity, coherence and synergies with other adaptation funders and actors

### INNOVATION

**Developing countries are** supported in undertaking the development and and accelerating highdiffusion of innovative quality, local-level and projects and programmes expanded and risk-taking their national adaptation

### EXPECTED RESULTS

1.New innovations and

4. Evidence base generated and shared



**Knowledge and evidence** on effective and innovative adaptation action and finance, including local and indigenous knowledge, is generated and disseminated with various stakeholders for application

### EXPECTED RESULTS

1. Knowledge generation and dissemination of learning on effective, innovative and local adaptation increased and expanded

2. Capacity to capture and disseminate learning strengthened

3. Knowledge partnerships expanded and outreach increased



### **Mission of the Fund**

Serve the Paris Agreement by accelerating effective adaptation action and effective access to finance. including through direct access, to meet the urgent needs and priorities of developing countries.

## **Country Driven Thematic areas**



 Disaster Risk Reduction



 Nature-based solutions



Forests and Land Use



• Rural development



Coastal

management

• Food Security



• Agriculture



Social innovation



 Water resources Management



• Urban adaptation





• Enhancement of cultural heritage

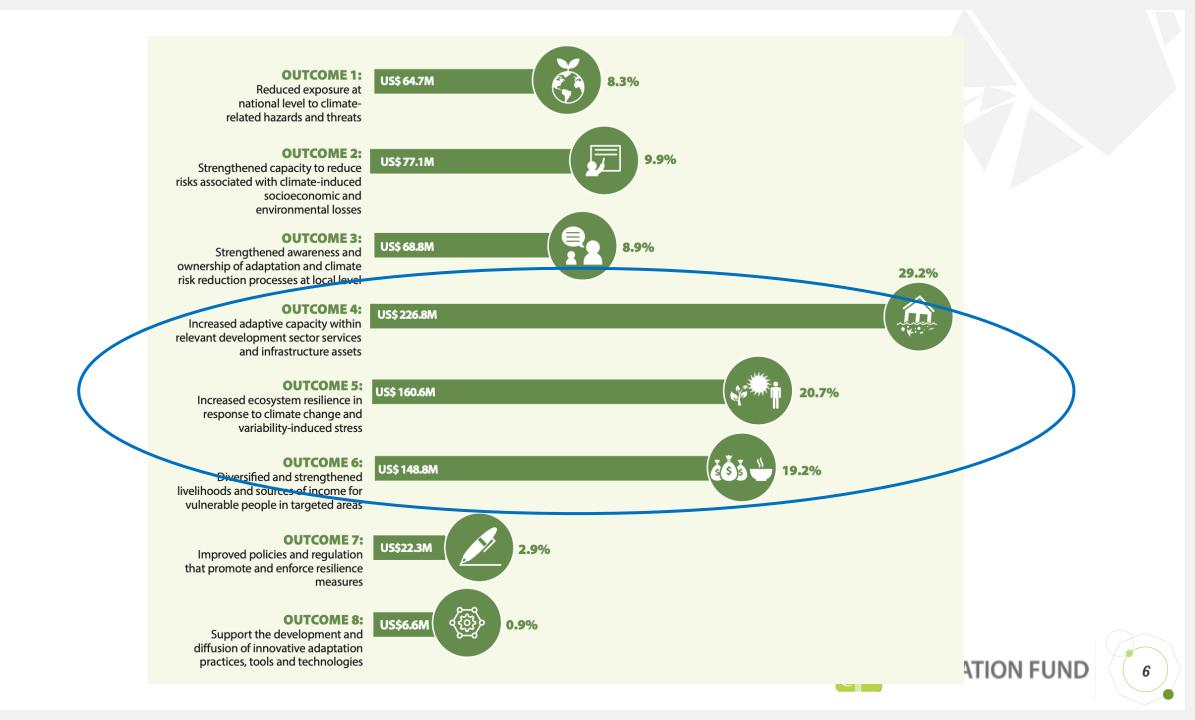
 Focus on communities





Innovative adaptation financing







- The Adaptation Fund's strategic focus on people, livelihoods, and ecosystems is well aligned with the NbS approach and UNEA agreed definition
- AF funded projects employ a range of NbS to enhance human resilience to climate change through the conservation of ecosystems and use of nature's services.
- The Fund's results framework enables projects to set measurable and time-bound targets and indicators, while its Environmental and Social and Gender policies ensure that projects and programs adhere to social and environmental safeguards and deliver economic, social and environmental benefits to target communities.
- This makes NbS activities funded by the AF in line with the NbS criteria and standards being set (including the global Standard for NbS by IUCN)



## **Tangible results**

IMPACT 1: Reduction in vulnerability of communities and increased adaptive capacity of communities to respond to the impacts of climate change



Number of direct beneficiaries is a conservative estimate, as it is not consistently reported (i.e. some projects report as no. of households)

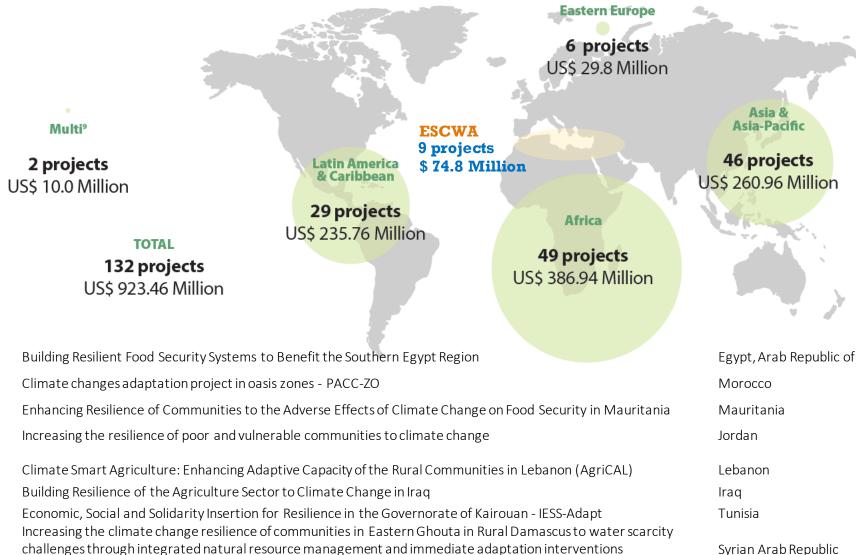


EARLY WARNING SYSTEMS Includes projects targeting several small scale EWS at the local level as well as those targeting one large regional system



**IMPACT 3:** Increased ecosystem resilience in response to climate change induced stresses 575.69 **CREATED, PROTECTED OR REHABILITATED RESTORED** 162.275 m M OF COASTLINE PROTECTED

## **AF portfolio – Regional distribution to date**



Building Resilient Food Security Systems to Benefit the Southern Egypt Region - Phase 2

Syrian Arab Republic Egypt, Arab Republic of



UNWFP

UNWFP

MOPIC

IFAD

IFAD

IFAD

ADA

### HEAL: Horticultural Entrepreneurship in Adaptive Livelihood for Post-Pandemic Economic Resilience in India (AF-UNDP-EU)

Grantee: South Asian Forum for Environment – USD 125,000

- Floating farms are working with the water lifting farms onto floating platforms which support sustainability and restore community life and ecosystems.
- Regenerative farming aimed at restoring soil health is transforming areas which constantly battle with the rising tides.
- A variety of seasonal crops grown in grow bags, fed by solar power and a small irrigation unit which removes saltwater from the process.
- Unique structures are also designed to work alongside fish and crab farming and support the restoration of embankments in flooded areas.
- Considerable biodiversity benefits for the mangroves in the area: reduced deforestation and environmental impacts (nutrient runoffs)



## India: Conservation and Management of Coastal Resources as a Potential Adaptation Strategy for Sea Level Rise

Project Amount: US\$689,264 NABARD

- Project aims to increase resilience to climate change impacts of the coastal communities by restoring the degraded mangrove system to reduce sea water intrusion and prevent flooding from storm surges
- Integrated Mangrove Fishery Farming System (IMFFS) approach;
  - o modifying rectangular pond areas previously used for shrimp
  - o planting mangroves and other salt tolerant vegetation on top
  - provide nutrients for the shrimp and crab aquaculture systems inside the ponds
  - o stabilize the soils
- Villages select landless, assetless, woman-led households who are willing to take up the cage cultures
- The project supports the creation of 'micro plans' prepared by the community members → community members to participate in restoration activities.
- Over 200 ha of mangroves restored and over 400,000 saplings planted; 50 ha of IMFFS farms developed; community is culturing high-value fish and shellfish



DAPTATION FUND

# Mauritius and Seychelles: Restoring marine ecosystem services by rehabilitating coral reefs to meet a changing climate future

Project Amount: \$US10,000,000 UNDP

- Project aims to enhance food security and resilience against natural disasters by implementing coral reef restoration with thermal tolerant corals as adaptation to climate change
- The restoration of degraded reefs will increase coral cover and help restore fish habitats and spawning/nursery sites
- Resilient corals will be propagated in the ocean nurseries, and eventually get transplanted to the reefs under restoration
- Restoration activities carried out by coastal communities and local NGOs; involvement of tourism enterprises (hotels, dive centers, boat operators)
- Corporate Social Responsibility (CSR), PES opportunities to leverage funding
- The introduction or movement of species is a key consideration when scaling up
  NbS → environmental safeguard measures to ensure that will be no introduction of known invasive species into the MPAs.



Attaching coral to reef on Cousin Island in Seychelles. Photo By Paul Anstey.



## Criteria: Is the Project Adaptation Fund-able

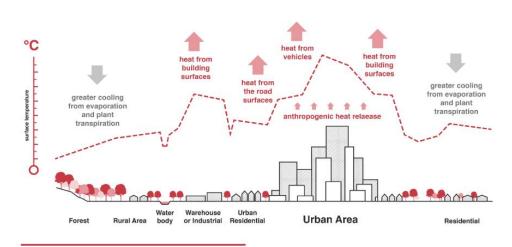
- 1. The adaptation rationale- the activities chosen will resolve the problem.
- 2. Maladaption ruled out
- 3. The objectives have to be aligned with the Adaptation Fund Results Framework and specified at outcome level.
- 4. Describe how the project / programme provides economic, social and environmental benefits:
  - estimated benefits will have to be quantified, whenever possible
- 5. Describe or provide an analysis of the cost-effectiveness of the proposed project / programme:
  - logical explanation of the selected scope and approach
  - cost effectiveness demonstrated from a sustainability point of view: alternative options, quantitative estimates of cost-effectiveness are required only where feasible and useful.
- 6. Provide justification for funding requested, focusing on the full cost of adaptation reasoning.
  - taken solely, without additional funding from other donors, they will help achieve these objectives (under review)



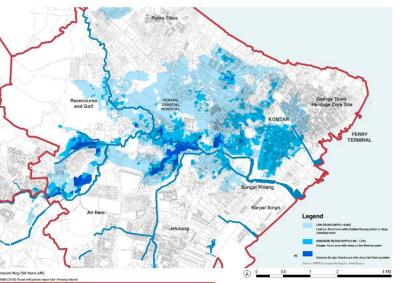


## Nature-based Climate Adaptation Programme for the Urban Areas of Penang Island

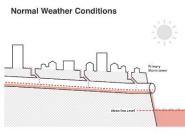
The main goal of the programme is to enhance urban resilience and reduce human and ecosystem health vulnerability to climate change impacts and extreme weather events by implementing nature-based solutions (NbS) to reduce surface temperatures and storm water runoff, as well as to increase social resilience and build institutional capacity.

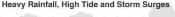


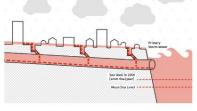
The urban heat island effect is related to urban areas having much warmer temperatures than nearby rural or natural areas. The difference in temperature between urban and less-developed rural areas has to do with heat absorption of hard surfaces



**Urban** Flood







A combination of increased urbanisation, heavy rain, high tides and storm surges results in floods as stormwater is unable to discharge into the sea or infittrate into the ground table. These two factors, 1) expanding built areas resulting in reduced stormwater absorption capacity and 2) increased volume and concentration of rainfall, has lead Penang Island to become exposed to flooding.

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**ADAPTATION FUND** 

Flood-risk assessment is an important part of mitigating, controlling and preventing floods. The economic demand for flood control is measured by the difference between expected flood damage before and after flood-mitigation measures are initiated. Without an assessment, floods may cause damage to property, loss of life, disruption to services businesses or agricultural activity.

### Urban Heat

Credit: https://thinkcityinstitute.org/PNBCAP/#section=0

## Project outline

### programme components

Component 2:

Stormwater

+ Upstream retention

+ Blue-green corridors

+ Swales and infiltration

wells

management

Component 1:



### Urban greening

- + Tree-lined streets
- + Pocket parks
- + Greening car parks + Greening built structures
- + Urban agriculture
- + Climate-resilien street trees'study

Component 4: Component 3:

+ Comprehensive social vulnerability assessment + Youth and schools programme

Social

Women and girls



### Institutional capacity





- + Knowledge transfer platform
- + Penang Climate Board



programme objectives

- To support the implementation of nature-based solutions to reduce flooding and overall urban temperatures
- 2 To build the resilience of local communities in response to extreme weather events and disaster
- 3 To empower women, youth, and vulnerable communities through strategic actions
- To strengthen institutional capacity and coordination between different stakeholders in climate-related decisions
- 5 To develop the first municipal climate change adaptation programme in Malaysia

The projects aims to benefit 343,739 directly and 311,257 indirectly.

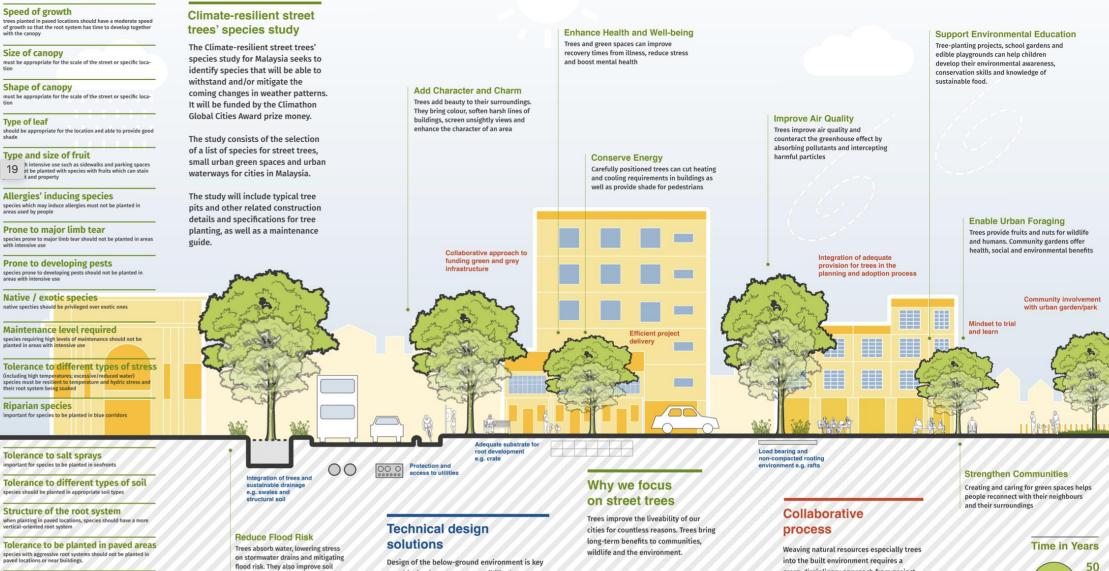
The project will also install an early warning system. In addition, the programme includes a community-focused approach as well as a strong knowledge transfer component to ensure the methodology can be scaled and adopted in the near future by other cities in Malaysia and the region.



## Storm water management



## **Climate Resilient Streets' Trees: Opportunities and Challenges**



Historical/cultural references species with historical or cultural significance should be planted in context

### **Ecological significance**

species of particular significance to biodiversity and specific urban habitats should be prioritised

Design of the below-ground environment is key to achieving long-term compatibility between trees and the built infrastructure that surrounds them in cities

guality and prevent erosion, so more

water is held in the ground

However, for many years the tree canopy in urban areas has been decreasing

cross-disciplinary approach from project initiation through to design, implementation, maintenance and monitoring

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## Some lessons learned from Portfolio

- NbS implemented through **community-based approaches** seem to show better results and have higher success rates.
- NbS adaptation interventions need to balance short, medium, and long-term needs
- In some cases, additional adaptation approaches are needed to complement NbS.
- Ensuring the **enabling conditions for the sustainability of the NbS**, so they can deliver their adaptation benefits in the long-term.
- The **policy and regulatory frameworks are important** to ensure that other threats to the ecosystems are also managed.
- The need for **financial mechanisms and incentives**.



## Some Challenges

- <u>GOVERNANCE</u>
- Nascent <u>POLICY</u> environment around NbS
- Inadequate <u>FINANCING</u> for NbS
- <u>PERCEPTION</u> issues
- Lack of <u>STANDARDS / PERMETTING</u> issues
- Climate change IMPACTS ON ECOSYSTEMS Limit of adaptation
- Integration in multi-hazard risk modeling estimate <u>AVERTED</u> <u>LOSSES</u> by ecosystems, <u>QUANTIFYING</u> vulnerability reduction
- Documenting the <u>EFFECTIVENESS</u> of the NbS









# Thank You

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