



URBAN
CLIMATE CHANGE
RESILIENCE
TRUST FUND

FINANCING PARTNERS



Urban Climate Change Resilience Trust Fund

In its 10 years of implementation, with funding of **\$105 million**, UCCRTF support to ADB projects has demonstrated several key achievements:



Supported **7.78 million** people to better adapt to the effects of climate change

(Out of these, 2.43 million are projected as direct beneficiaries and 5.34 million were indirect beneficiaries**)



Supported **35 priority cities** in **7 countries** through more than **70 projects**



Linked to **\$10.6 billion of approved downstream investments** comprising \$5.7 billion in approved ADB loans, \$2.32 billion in co-finance and \$2.5 billion in government counterpart funding



Reached **28,850 individuals** who utilized the knowledge activities and planning



Introduced climate risk informed planning for the design and siting of infrastructure projects such as cyclone shelters, emergency access roads, flood early warning systems, integrated water supply and sanitation systems, waste management, healthcare centers



Implemented pilots to test and scale up innovative approaches for disaster risk financing, cross-border climate change issues, nature-based solutions, community-led projects, and geospatial tools.

* UCCRTF was established with funding from the Rockefeller Foundation, the Governments of Switzerland, United Kingdom and the United States. The latter withdrew as a financing partner in 2017.

** **Direct beneficiaries** are defined as both targeted beneficiaries and receiving high intensity of support, whereby **targeted** means they can be identified as receiving direct support; can be counted individually, and are aware that they are receiving support in some form. Indirect beneficiaries are defined as either: (i) targeted, and receives medium or low intensity of support; or (ii) not targeted, and receiving high or medium intensity of support.

Reference: UK Government. "Number of people supported to better adapt to the effects of climate change as a result of International Climate Finance: ICF KPI 1 Methodology Note." February 2023. (<https://bit.ly/3R5GAd0>)



Scan the QR code to learn more about UCCRTF



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Enhancing Resilience of Coastal Cities in Bagerhat and Patuakhali, Bangladesh

PROJECT

Bangladesh: Coastal Towns Environmental Infrastructure Project (CTEIP)

SUPPORT

UCCRTF support: **\$6 million**
Linked ADB loan: **\$82 million**

RESILIENCE DIMENSIONS



Physical
resilience



Social and
institutional
resilience



UCCRTF financed the construction of two cyclone shelters, drainage, and emergency access roads which benefited around 100,000 people in the towns of Bagerhat and Patuakhali. The facilities offered shelter to affected residents during Cyclone Amphan which struck the coastal areas of Bangladesh in May 2020. The lessons learned from CTEIP on climate risk informed design and siting of facilities informed the subsequent Coastal Towns Climate Resilience Project (CTCRP), where 90% of ADB financing is attributed to climate adaptation finance.

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Advancing City Resilience with innovative Flood Forecasting and Early Warning System (FFEWS) in Kolkata, India and Hoi An, Viet Nam

PROJECTS

India: Strengthening Climate Resilience of Kolkata City through Improved Planning and Disaster Risk Management

Viet Nam: Urban Environment and Climate Change Adaptation

SUPPORTS

UCCRTF support: **\$1 million**
Linked ADB loan: **\$200 million**

UCCRTF support: **\$2 million**
Linked ADB loan: **\$70 million**

RESILIENCE DIMENSION



Physical
resilience



Social and
institutional
resilience



UCCRTF supported the implementation of flood forecasting and early warning systems (FFEWS) in the Cities of Kolkata (India) and Hoi An (Viet Nam) which provides real-time information on flooding and precipitation. The information is accessible to city managers and residents through websites and mobile applications, empowering stakeholders to make informed decisions and reduce disaster risks. The Kolkata FFEWS feeds from a network of about 400 digital sensors installed throughout the city that consolidates information on inundation, precipitation, air quality and temperature.

The Vu Gia-Thu Bon River Basin FFEWS predicts water levels based on current hydrological situation, coastal and riverine modelling, and weather data in Hoi An. Apart from a mobile phone application to receive flood warning alerts, the FFEWS enabled access to a website where citizens can see observed and forecasted water levels and submit-location specific feedback during flood or emergency situations.

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Swiss Government
Department of Economic Affairs
Cooperation Policy
Directorate General
Swiss Confederation
Federal Department of Economic Affairs
Directorate General
Date: November 2023



Integrating Climate Resilience in Khyber Pakhtunkhwa Cities' Urban Infrastructure, Pakistan

PROJECT

**Pakistan: Khyber Pakhtunkhwa
Cities Improvement Projects –
Project Readiness Financing**

SUPPORT

**UCCRTF support: \$2 million
Linked ADB loan: \$7 million**

RESILIENCE DIMENSION



**Ecological
resilience**



**Social and
institutional
resilience**



**Physical
resilience**



Linked to ADB loan Khyber Pakhtunkhwa Cities Improvement Projects (KPCIP), UCCRTF financed the integration of climate change resilience considerations in the planning and design of 24 subprojects in 5 major cities—Abbottabad, Kohat, Mardan, Mingora, and Peshawar—that is expected to benefit 3.7 million residents. The initiative included integrated technologies such as SCADA, water metering systems, solarization, and nature-based solutions, and strengthened institutional capacity of cities for climate resilience regional and city planning.

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Empowering Informal Communities in Makassar, Indonesia through Water-sensitive Infrastructure

PROJECT

Regional: Revitalization of Informal Settlements and their Environments (RISE) using a Water-Sensitive Approach

SUPPORT

UCCRTF support: \$196,000 for pilot and \$1,000,000 for project preparation, community engagement, and detailed engineering design of replication sites

RESILIENCE DIMENSION



**Ecological
resilience**



**Social and
institutional
resilience**



**Physical
resilience**



In partnership with Monash University, ADB through the RISE program, co-designed with urban poor communities the location-specific solutions which integrated green infrastructure, such as constructed wetlands for wastewater management and flood risk reduction, and rainwater harvesting, to strengthen the whole-of-life water and sanitation cycle. It offered an alternative to traditional large-scale sewerage trunk infrastructure and resulted in health and environmental benefits. UCCRTF support benefited a 14-household pilot community which co-designed the project and informed the engineering design and procurement for replication sites in Makassar, to be financed by the Australian Department of Foreign Affairs and Trade. UK Wellcome Trust research grants to this project investigated the WASH related disease pathways in children and flood prone community settlements.

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Integrating Climate-informed Nature-based Solutions: Master Plan Review for New Clark City, Philippines

PROJECT

**Philippines: Review of
New Clark City Master Plan**

SUPPORT

Direct Charge UCCRTF Support: \$225,000
for Review of Master Plan; \$225,000
for Resilient and Sustainable Water Supply

RESILIENCE DIMENSION



**Ecological
resilience**



**Physical
resilience**



Complementary to ADB transaction advisory services provided by the Office of Markets Development and PPP (OMDP), UCCRTF financed the masterplan review of New Clark City (NCC), a 9,500-ha development of the Philippine Government's Bases Conversion and Development Authority (BCDA). Using climate risk and vulnerability assessments (CRVA) covering 50 and 100 year return periods, the intervention reshaped the planning of NCC around the River Zone. By "giving the river room to grow," the plan encourages nature positive solutions for development and maximizes land value capture. The UK Government's Prosperity Fund is financing the design of a 45-hectare park in NCC, one of the largest public parks in the country, that will be completed in 2025. The UCCRTF supported NCC water resources study and the ADB biodiversity landscape study have informed the future sustainable city development options.

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Cooperation with the Government of Switzerland
Cooperation with the Government of Switzerland
Cooperation with the Government of Switzerland



Restoring Sand Dunes for Coastal Resilience in Dong Hoi, Viet Nam

PROJECT

Viet Nam: Urban Environment and Climate Change Adaptation Project

SUPPORT

UCCRTF support: **\$1 million**
Linked ADB loan: **\$30 million**

RESILIENCE DIMENSION



Ecological
resilience



Physical
resilience



In Dong Hoi, Viet Nam, UCCRTF addressed rapid coastal changes due to rapid urbanization and climate change by developing an integrated flood and coastal management plan, piloting rehabilitation of damaged sand dunes benefiting around 18,000 residents and identifying effective measures through modelling and hydrodynamic analysis. The UCCRTF support financed slope stabilization, planting of trees spanning 3 hectares, and awareness raising on coastal protection for the local communities and the private sector.

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Demonstrating the Impact of Community-led Approaches for Enhanced Community Resilience

PROJECT

**Regional: Promoting Urban
Climate Change Resilience
in Selected Asian Cities –
Development of Pilot Activities
and Project Development
Support (Bangladesh, Pakistan,
and Philippines)**

SUPPORT

UCCRTF support: \$5.50 million

RESILIENCE DIMENSIONS



**Physical
resilience**



**Social and
institutional
resilience**



Piloted in 8 cities across Bangladesh, Pakistan, and the Philippines, community-led projects supported by UCCRTF demonstrated how participatory processes can empower vulnerable communities to enhance their resilience. These initiatives, which benefitted over 34,000 stakeholders, include flood mitigation, community-based solid waste management projects, water-supply system, multi-purpose evacuation center, green parks, and skills and livelihood training centers. They addressed community-identified climate resilience issues and showcased scalability and cost-effectiveness of CLPs.

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Empowering Sanitation for All: Citywide Inclusive Sanitation

PROJECT

**Regional: Accelerating Sanitation
for All in Asia and the Pacific**

SUPPORT

UCCRTF Support: \$2 million

RESILIENCE DIMENSION



**Physical
resilience**



**Social and
institutional
resilience**



Through this TA, UCCRTF supported the adoption of citywide inclusive sanitation (CWIS) approaches in ADB funded water supply and sanitation projects to ensure that communities which cannot be covered by networked sewerage systems can still have access to sanitation services. The project provided technical inputs to five ADB loans with a total amount of about \$500 million in the Philippines, India, and Nepal.

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Cooperation with the Government of Switzerland
Cooperation with the Government of Switzerland
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Enhancing the Environmental and Social Safeguards of the ADB Trade Finance Program

PROJECT

Regional: Capacity Building for Enhanced Safeguards, Anti-Corruption and Integrity Measures, Gender Equity Policies and Digitization of Trade Finance Program

SUPPORT

UCCRTF Support: \$1.5 million

RESILIENCE DIMENSION



**Financial
resilience**



**Social and
institutional
resilience**



UCCRTF's support strengthened environmental and social safeguards for ADB TFP and partner banks, positively influencing sustainable trade finance practices across 21 Asian countries through SMEs supply chain transactions in various local products/ commodities and contributing to reducing incidence of modern slavery in the textile industry supply chains.



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Swiss Government
Confederation of Cantons
Confederation of Cantons
Confederation of Cantons



Creating and Expanding Markets for Gender-inclusive and Affordable Green Housing in India

PROJECT

India: Access to Green Affordable Housing for Women in India

SUPPORT

UCCRTF support: **\$1 million**
Linked ADB loan: **\$68 million**

RESILIENCE DIMENSION



**Financial
resilience**



**Social and
institutional
resilience**



UCCRTF supported capacity development activities for overall awareness raising and capacity enhancement of prospective buyers, developers, and construction companies on green affordable housing standards, materials and practices. The activity complements the \$40 million ADB loan to IIFL Home Finance Limited, which offers mortgage loans for families to purchase climate resilient and green certified homes in secondary cities in India. The initiative also advocated for gender-inclusive and affordable green financing for lower-income women, while emphasizing the pivotal role of the private sector in expanding markets and building a knowledge base.

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Advancing Climate-resilient Planning with Integrated GIS Solutions: Spatial Analysis Data Explorer

PROJECT

**Regional: Spatial Analysis
Data Explorer (SPADE)**

SUPPORT

UCCRTF support: \$900,000
(Direct Charge and Technical Assistance)

RESILIENCE DIMENSION



**Ecological
resilience**



**Financial
resilience**



**Physical
resilience**



**Social and
institutional
resilience**



UCCRTF, in collaboration with various ADB units including the Information Technology Department (ITD), Digital Technology for Development Unit (now Digital Technology for Development Division), and Urban Sector Group (now Water and Urban), developed SPADE, a web-based open-source GIS visualization platform to support integrated and climate-risk informed planning. SPADE was used to support climate risk informed design and planning in 31 cities in 10 countries, supporting projects totaling \$1 billion, offering technical support, integrating climate change toolkits, and enabling remote project monitoring. Currently, efforts are underway to integrate SPADE into ADB's information technology ecosystem.

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Pioneering Holistic City Resilience Measurement

PROJECT

**Regional: Knowledge
Management and Resilience
Measurement for Urban
Climate Change Resilience
(Bangladesh, Pakistan,
Philippines, and Viet Nam)**

SUPPORT

UCCRTF support: **\$4.99 million**

RESILIENCE DIMENSION



**Ecological
resilience**



**Financial
resilience**



**Physical
resilience**



**Social and
institutional
resilience**



UCCRTF contributed to emerging knowledge on resilience measurement by piloting methodologies for assessing enhanced resilience through baseline and endline survey approach. The methodology combines the City Resilience Index (developed by Arup and supported by The Rockefeller Foundation) which measures relative performance of cities across four dimensions of resilience over time. Household level resilience measurement was developed following an extensive review of approaches used in previously supported DFID (UK Department for International Development) programs, including: Demographic Health Survey 2017, SHOUHARDO II Final Quantitative Performance Evaluation (Tango 2015), Measuring Household Vulnerability to Food Insecurity, Application to Palestinian Householder (FAO 2009) by Alinovi et al 2009, Summary of the Expert Consultation on Resilience Measurement for Food Security, TANGO International (Frankenberger and Nelson 2013).

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