Technology Support for Resilient Cities

Jaime Webbe
Asia-Pacific Regional Manager

UN environment UNIDO

Hydrodynamic modelling for flood reduction and climate resilient infrastructure development pathways in Jakarta

Baseline

Jakarta is increasingly threatened by flooding due to a combination of rising sea levels, land subsidence and higher river levels caused by extreme weather

Problem Statement

There is a need to reduce impacts of urban flooding on life and property in Jakarta

Objectives

Strengthen expertise of government agencies to formulate policy and action plans to reduce flooding and to advance climate resilient city planning in Jakarta

Enhance the local stakeholder's capacity to replicate the hydrodynamic modelling in other locations

How it Works - Technical Assistance

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MITIGATION

Agriculture

Renewable Energy

Energy Efficiency

Transport

Waste Management

Forestry

Industry

ADAPTATION

Agriculture & Forestry

Human Health

Coastal Zones

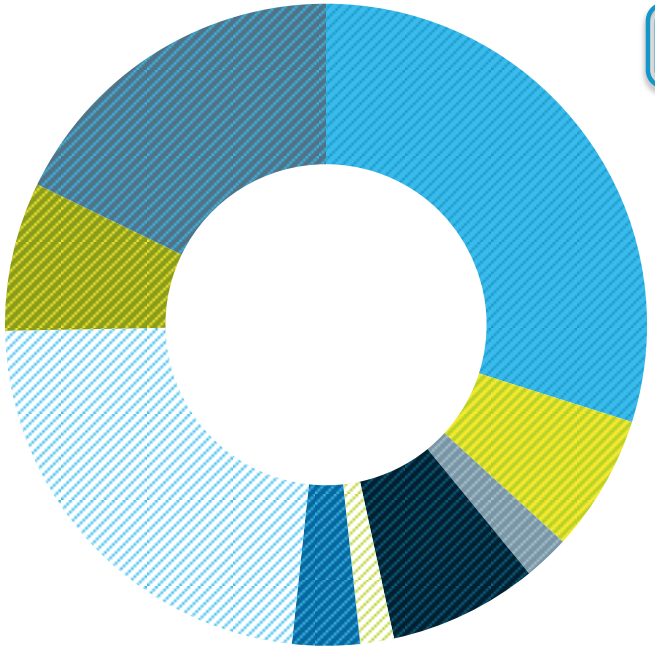
Infrastructure, Transport & Urban Design

Early Warning & Environmental Assessment

Marine & Fisheries

Water

Our Work



- Decision-making tools and/or information provision
- Sectoral roadmaps and strategies
- Recommendations for law, policy and regulations
- Financing facilitation
- Private sector engagement and market creation
- Research and development of technologies
- Feasibility of technology
- Piloting and deployment of technologies in local conditions
- Technology identification and prioritisation

The TA aims to strengthen the expertise of national and urban planners in Jakarta to assess flood risks and hazards and to design climate-resilient pathways to reduce the magnitude and scale of the impacts from increased urban flooding

Taking the right steps

1. Interested parties in developing countries contact their national focal point (National Designated Entity (NDE)) to request climate technology assistance.
2. The NDE confirms the alignment of the request with its national climate priorities and passes it along to the CTCN.
3. The CTCN collaborates with the NDE and applicants to develop a tailored technology transfer plan.
4. The Climate Technology Centre selects a Consortium or Network member to implement the technology solution.

The response

- Develop a hydro-dynamic model to evaluate hard and soft engineering solutions that reduce flooding risks
- Conduct a socio-cultural survey to identify impacts of different adaptation options on inhabitants and the local economy
- Produce recommendations for climate resilience urban infrastructure development to reduce flooding risks
- Organise technology transfer workshops to strengthen local expertise in hydrological modelling and urban infrastructure options

The network in numbers

68
Private sector organization

51
Research & academic institution

20
Not for profit organization

7
Intergovermental organization

8
Partnership/initiative

16
Public sector organization

1
Regional organization

30
non-governmental organization

CTCN in Indonesia

Other Resilience Support

Coastal hazard mapping

Ecosystem based approaches to urban adaptation

Resilient city action plans

Early warning systems

Saline water purification

Building code revision

CTCN

CLIMATE TECHNOLOGY CENTRE & NETWORK

UNFCCC Technology Mechanism

www.ctc-n.org

UNFCCC_CTCN

UNFCCC.CTCN

UN environment

UNIDO

European Commission

Norwegian Ministry of Foreign Affairs

Spanish Cooperation

環境省 Ministry of the Environment

Canada

Udenrigsministeriet DANIDA

Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

Federal Department of Economic Affairs, Education and Research EAER
State Secretariat for Economic Affairs SECO

Supported by:

Federal Ministry for Economic Affairs and Energy

METI Ministry of Economy, Trade and Industry

Ministry for Foreign Affairs of Finland

Comhshaol, Pobal agus Rialtas Áitiúil
Environment, Community and Local Government

Ministero dell'Ambiente e della Tutela del Territorio e del Mare

Ministry of Science and ICT

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