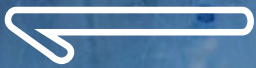


Agenda

TOWARDS SUSTAINABLE + RESILIENT CITIES



Tanzania is experiencing rapid and unplanned urbanization, contributing to an increase in economic and social vulnerability to climate related risk. In 2016, the Tanzania Urban Resilience Programme was established to mitigate this risk through coordinated and strategic action. Led by the Government of Tanzania - with implementation support from the World Bank and funding from the UK Department for International Development - the programme is working to improve risk identification, risk reduction, and emergency preparedness.



As it passes its midpoint in implementation, sustainability of programme initiatives is now focusing on two key priorities: (1) climate smart infrastructure and planning, and (2) innovation and education for resilience. URTZ 2019 will address these priorities through two days of panel sessions, workshops, and exhibitions on sustainable solutions for resilient urbanization.



Aiming to serve not only as a knowledge exchange, but as a model for sustainable solutions, the conference will be delivered as Tanzania's first major Zero Waste event in partnership with environmental NGO, Nipe Fagio.



2-3 OCTOBER

NATIONAL MUSEUM, DAR ES SALAAM

PRE CONFERENCE **OCTOBER 1**

WORKSHOPS AND TRAININGS RELATED
TO URBAN RESILIENCE IN TANZANIA

9:00 - 5:00

EARLY WARNING SYSTEMS

DELTA RES (Select Participants)

URBAN RESILIENCE IN ACCRA, GHANA

GARID (Select Participants)



WORLD BANK GROUP

DAY ONE

OCTOBER 2

CLIMATE SMART INFRASTRUCTURE,
RESEARCH, AND PLANNING

8:00 - 9:30

REGISTRATION + WELCOME TEA

OPENING REMARKS

9:30 - 10:30

Bella Bird (Country Director, *World Bank*)
Beth Arthy (Head, *DFID*)
Hon. Minister George Simbachwe (*Minister of State, VPO*)
Hon. Minister Selemani Jafo (*Minister of State, PO- RALG*)

KARIBU URTZ

10:30 - 11:00

- 2018/19 Programme Recap **Edward Anderson** (*World Bank*)
- Zero Waste + URTZ 2019 **Olarip Tomito** (*Nipe Fagio*)

SESSION #1

THE CASE FOR CLIMATE SMART INFRASTRUCTURE

11:00 - 12:15

A close look at case studies showcasing efforts and potential for Green, Blue, and Grey infrastructure in Dar es Salaam - accompanied by successful examples from projects across the continent.

Facilitator: Eric Dickson (World Bank)

TOPICS

- Nature's Benefits for Dar es Salaam **Grace Mbena** (*Dar es Salaam City Council*)
- Planning for Blue-Green Infrastructure in Africa **Matt Cullinan** (*ICLEI*)
- Programmed Approach to Resilience Building **Kwadwo Ohene Sarfoh** (*GARID, Ghana*)
- The Resilient Infrastructure Opportunity **Steven Rubinyi** (*City Resilience Program*)

12:15 - 1:15

LUNCH

SESSION #2

SCIENCE FOR INFORMED DECISION MAKING

1:15 - 2:30

Presentations of innovative research and science being conducted in Tanzania to inform resilient planning at a local and national level - particularly focused on informing upgrades to the increasingly flood-prone Lower Msimbazi River Basin.

Facilitator: Larissa Duma (World Bank)

TOPICS

- With Data from Space to Resilient Planning **Thomas Esch** (*DLR*)
- Geomorphology Dynamics - Managing Changing Rivers **Adri Verwey** (*World Bank*)
- Sustainable Urban Drainage Solutions for Tanzania **Eng. Nyariri Nanai** (*PO-RALG*)
- Msimbazi Mangroves - Habitat & Vulnerability **Dr. Daudi Msangameno** (*COWI*)

SESSION #3

THE ECONOMICS OF URBAN RESILIENCE IN DAR

2:30 - 3:45

An overview of economic considerations and the growing benefits of climate smart, resilient development in Tanzania - addressing the interests of the individual and the community, as well as the wider public and private sectors.

Facilitator: Yohannes Kesete (World Bank)

TOPICS

- Poverty and Disaster Research **Alvina Erman** (*World Bank*)
- Community Savings Groups Research **Nyambiri Kimacha** (*World Bank*)
- Investment Case for Green Infrastructure **Martin Jansen van Vuuren** (*ICLEI*)
- Market and Private Sector Consultation **Jacqueline Mutabirwa** (*PwC*)

3:45 - 5:30

TEA + PRACTICAL SESSIONS

A choice of practical session tracks on strategies for climate smart planning and resilience - 4 different topics, 4 unique formats.

TOPICS

TRAINING Zero Waste in Action *Nipe Fagio and Africraft*
MASTER CLASS The Science of Flood Management *World Bank*
RAPID DIAGNOSTIC City Resilience Scan *City Resilience Program*
DEEPDIVE Strategy to Investment in Accra, Ghana *GARID, Ghana*

5:30 - 7:00

RECEPTION + ART EXHIBITION OPENING

Creating Resilience - an art exhibition highlighting the connection between solid waste and flooding in Dar es Salaam.

Presented in partnership with Nipe Fagio, Africraft, and the National Museum

DAY TWO

OCTOBER 3

INNOVATION + EDUCATION
FOR URBAN RESILIENCE

8:00 - 9:30 REGISTRATION + WELCOME TEA

9:30 - 10:00 DAY 1 RECAP + INTRODUCTION

IGNITE SESSION

INTRODUCTION TO RESILIENCE ACADEMY

10:00 - 11:00

An overview of the Resilience Academy - a digital hub and community for improved access to education and resources on resilient planning based on the knowledge developed in Tanzania.

Facilitator: Niina Käyhkö (University of Turku)

- Structure and Partnerships **Juma Lungo (UDSM)**
- Climate Risk Database **Massoud Hamad (SUZA)**
- Academic Modules **Zakaria Khamis (SUZA)**
- Industrial Training **Paulo Kitosi (ARU)**
- Masters Student Research **Theofrida Maginga (SUA)**

DISCUSSION PANEL

Ernest Mauya (SUA), Joseph Mayunga (ARU), Makame Makame (SUZA), Mercy Mbise (UDSM), Christopher William (UDSM)

SESSION #1

RISK IDENTIFICATION SERVICES

11:00 - 12:15

Use cases of identification methods and services that promote localized, sustainable solutions for filling data gaps and informing risk reduction initiatives.

Facilitator: Caroline Gevaert (World Bank)

TOPICS

- LiDAR Drone Surveying in the Msimbazi **Deogratius Minja (World Bank)**
- Community Mapping: Pre and Post-Disaster **Innocent Maholi (Humanitarian OSM)**
- Solid Waste and Route Mapping **Joshua Palfremann (I4ID)**
- Building Footprint Digitization in Zanzibar **Primoz Kovacic (Spatial Collective)**

12:15 - 1:15

LUNCH + DATA VISUALIZATION CHALLENGE OPENING

SESSION #2

RESEARCH, INNOVATION + PARTNERSHIPS

1:15 - 2:30

A selection of recent initiatives that have built upon the tools, skills, and knowledge developed through the Tanzania Urban Resilience Programme and the Resilience Academy.

Facilitator: Roza Vasileva (World Bank)

TOPICS

- Community Mapping for Flood Modeling - A Case Study **Hessel Winsemius (TU Delft)**
- AI Challenge in Zanzibar **Yussuf Said Yussuf (Tanzania Flying Labs)**
- Zanzibar Innovation Lab **Dr. Amy Hochadel (Connected Places Catapult, UK)**
- Community-based Waste Management for the Msimbazi **Fridtjof Behnsen (GIZ)**

2:30 - 3:00

LOOKING AHEAD + CLOSING REMARKS

Eric Dickson (World Bank)

3:00 - 3:30

TEA

PRACTICAL SESSION

DATA VISUALIZATION CHALLENGE FINALE + MASTER CLASSES

3:30 - 6:00

Presentations from participants of the Resilience Academy Data Visualization Challenge directly to a jury of Academic Leaders and Data Users - followed by master classes for students interested in acquiring specific skills in risk identification.

Facilitator: Msilikale Msilanga (World Bank)

MASTER CLASS TOPICS

DATA VISUALIZATION METHODS FOR RESILIENCE *Resilience Academy Team*
COMMUNITY MAPPING TECHNIQUES *Humanitarian OpenStreetMap Team*