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**GERMAN GOVERNMENT AND FEDERAL STATES PROGRAMME**  
**BUND-LÄNDER-PROGRAMM (BLP)**

The pilot project for rain water management is implemented in the Kigamboni Health Center in Dar es Salaam

## Managing heavy rain in Dar es Salaam

### Local situation

Tanzania is severely affected by the impacts of climate change. Rising sea levels pose a threat to the coastal areas, while increasingly frequent heavy rainfall events can result in extreme damage to buildings, infrastructure, agriculture and the entire ecosystem. Periodic lack of rainfall leads to aridity and temporary water scarcity. At the same time, demand for water is increasing due to economic development, agricultural production and population growth in urban areas in particular.

During the dry seasons and particularly towards the end of the year, the water supply in Dar es Salaam is restricted over a period of many weeks and on some days there is no water at all. People may then need to buy additional water from private suppliers at a high cost, which puts a strain on the budgets of many households. Yet rainwater runoff in this coastal city goes practically unused and causes flooding in many places.

Heavy rainfall is essentially removed through channels, while decentralised rainwater management is extremely limited. There have already been far-reaching reforms in Tanzania to help increase capacity, improve services, establish more efficient processes and improve the supply in the water sector. The existing capacity and resources in Tanzania's state institutions remain very limited, however.

### Federal state - partner country

Hamburg - Tanzania



### Title

Water sensitive urban development in Dar es Salaam, Tanzania

### In cooperation with the GIZ programme

Promotion of water security and climate resilience in urban areas in Tanzania

### Financing arrangements

BMZ contribution 288.833 EUR

Hamburg contribution 188.740 EUR

### Duration

01.08.2023 - 31.07.2025

### Responsible ministry

Senate Chancellery Free and Hanseatic City Hamburg

This project helps to achieve the following Sustainable Development Goals (SDGs):



*“The rainy season hinders our ability to provide healthcare services to our patients due to flooding. This is a big problem for our healthcare centre because it takes 5 to 7 days to pump out the collected stormwater through locally made drainage systems. At this time the hospital must be shut down and we are forced to refer our patients to nearby hospitals until the issue is resolved.”*

Dr Tausi Kasara  
Medical Officer in Charge, Kigamboni Health Centre



Meeting between the Hamburg delegation and Tanzanian partner institutions

## Cooperation arrangements

A city partnership was set up between Hamburg and Dar es Salaam in 2010 and confirmed in 2022. Cooperation focuses on climate action and sustainable urban development. Hamburg's Ministry of Environment, Climate, Energy and Agriculture, the public water supply and wastewater utility Hamburg Wasser and the Hafencity University Hamburg will be taking part in the project as part of the German Government and Federal States Programme. All three partners have already collaborated on a number of rainwater management projects.

In Tanzania, the project cooperates closely with the project on the Promotion of Water Security and Climate Resilience in Urban Areas in Tanzania. On the Tanzanian side, the cooperation partners are Dar es Salaam City Council and Ardhi University.

## What we are doing - and how

The project aims to develop the capacity of Dar es Salaam City Council and the relevant institutions in the field of decentralised rainwater management, thus contributing to flood protection by introducing and using innovative, evidence-based approaches.

As part of the project, delegations are visiting Hamburg and Dar es Salaam to facilitate discussions between the local actors in the water sector. On the basis of this, the cooperation partners share ideas and advice on a

regular basis. The aim is to develop products to plan decentralised nature-based rainwater management systems. This includes compiling relevant data for a joint geodata infrastructure and teaching materials to illustrate water-sensitive urban development, such as a miniature model on rainwater management for schools and a flood atlas similar to Hamburg's Water Atlas. In addition, a pilot project is being designed and implemented in Kigamboni Health Centre to establish an example of successful decentralised rainwater management.

## Useful links

- Further information on the BLP:  
<https://www.giz.de/en/worldwide/132983.html>  
<https://bund-laender-programm.de/en>
- GIZ Programme “Promotion of water security and climate resilience in urban areas in Tanzania”:  
<https://www.giz.de/en/worldwide/136360.html>
- Partnership between Hamburg and Dar es Salaam  
<https://www.hamburg.de/dar-es-salaam/>

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