



IKI Brown Bag Lunch:

Moving towards climate-resilient cities

Tools and instruments to improve cities' capacities to adapt to climate change

IKI Office

Online, 26 February 2025



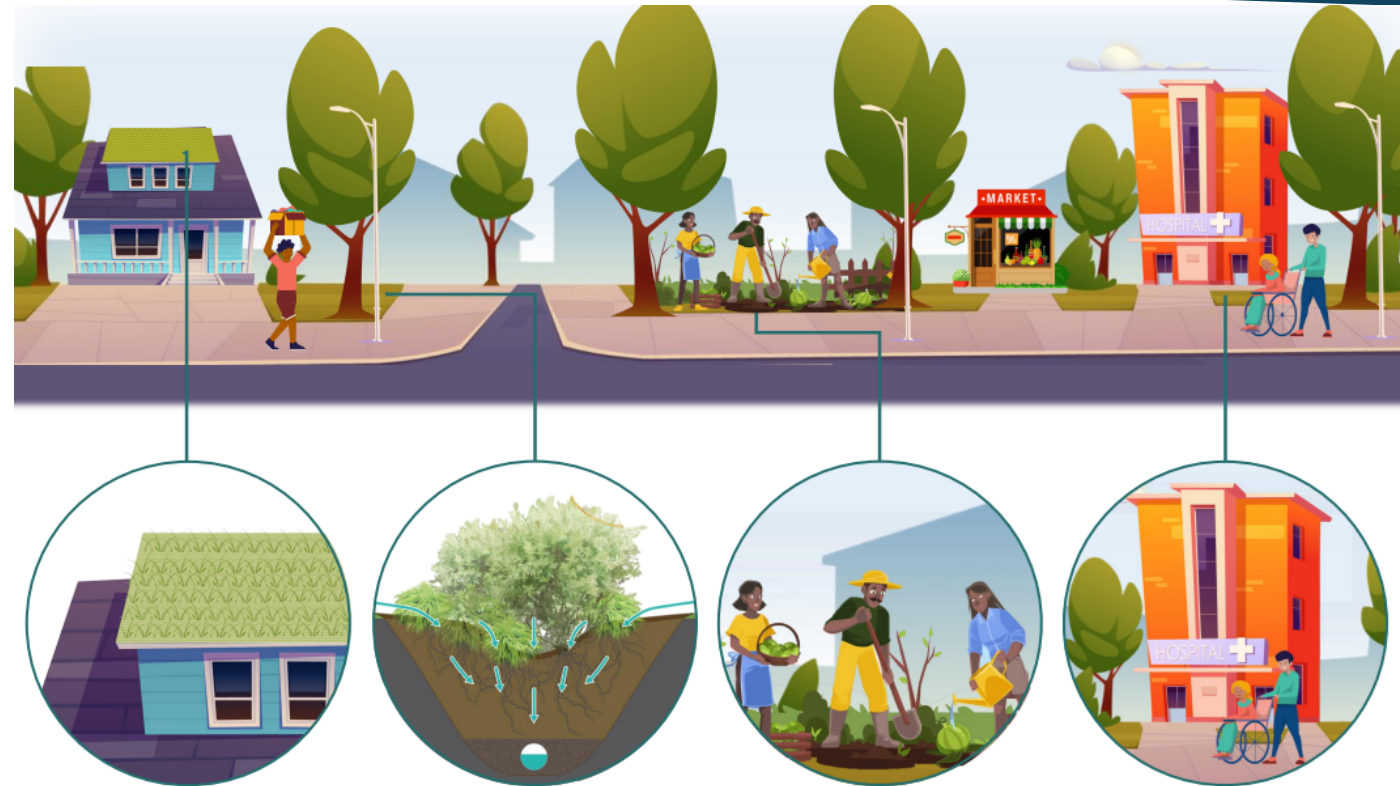
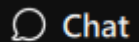
The
Federal Government



Welcome

Netiquette:

- Please log in with your full name, organisation and country
- Please switch off all microphones
- Chat icon for content-related questions and technical questions



© CitiesAdapt

Agenda

- Welcome Note from the Federal Ministry for the Environment, Nature Conservation, Nuclear Safety and Consumer Protection (BMUV)
- Input from the CitiesAdapt project
- Discussion of instruments with project partners
- Q&A session



Welcome Note from the Federal Ministry for the Environment, Nature Conservation, Nuclear Safety and Consumer Protection (BMUV)



CitiesAdapt

Strengthening Climate Change Adaptation in Cities

February 2025

Supported by:



Federal Ministry
for Economic Affairs
and Climate Action

Federal Ministry
for the Environment, Nature Conservation,
Nuclear Safety and Consumer Protection



Implemented by:



on the basis of a decision
by the German Bundestag



CitiesAdapt

Title	CitiesAdapt - Strengthening Climate Change Adaptation in Cities	Key objective	Improve resilience to climate change impacts in selected cities and disadvantaged urban neighborhoods in Mexico and South Africa
Implementing organisation	CitiesAdapt is an IKI project implemented by GIZ on behalf of BMWK and BMUV	How to reach it?	Mainstreaming climate change adaptation measures into urban development instruments, support planning and capacity building of key stakeholders Support the planning and implementation of a concrete demonstration project for adaptation in a public space, with ecosystem-based adaptation as an element Enhance exchange and advocacy for climate resilient urban development by carrying out peer-to-peer events and contribute to national and international debates on the field. Scaling-up of project results to other cities.
Project duration	01.03.2022 – 31.08.2025		
Total funding	4.000.000 EUR		

Project Outputs

I

Climate-Resilient Urban Planning

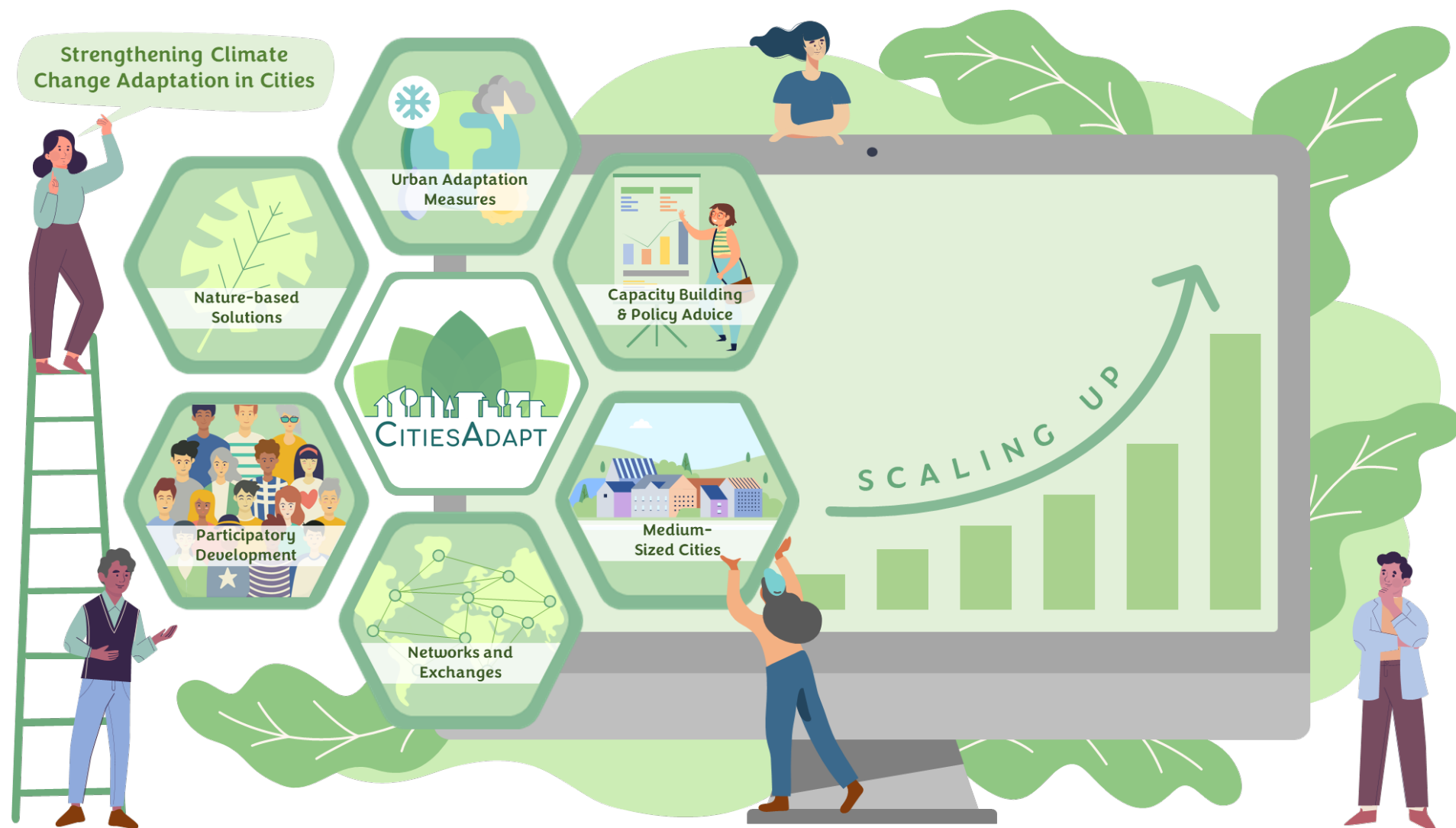
II

Demonstration projects for Climate Resilient Urban Development

III

Exchange, Advocacy and Scaling-up

How we work



Locations of Partner Cities

Mérida, Mexico



uMhlathuze, South Africa



Discussion of CitiesAdapt Instruments

Remote Sensing Tool - Idea/ Art competition - Urban finance training

Interview partner

- **Brenda Strachan:** Spatial and Environmental Planning manager, Municipality of uMhlathuze, South Africa
- **Said Chuc,** Chief of Urban Resilience, Municipality of Mérida, Mexico
- **Gerardo Gonzalez Alfaro,** Responsible for CitiesAdapt GIZ in Mexico



Remote Sensing Tool

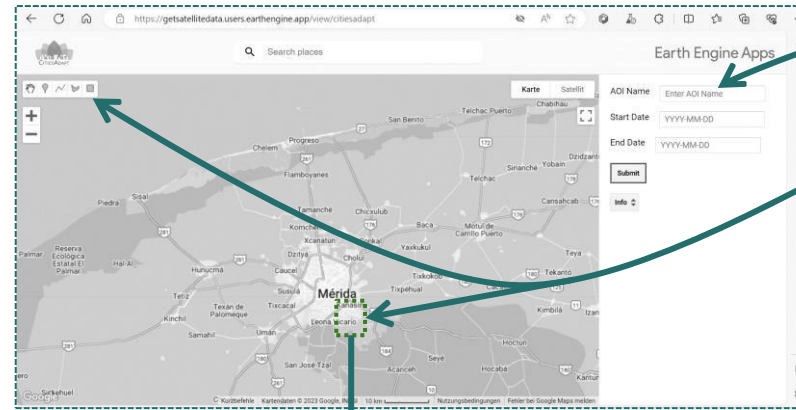
A web-based application designed at *Google Earth Engine (GEE)* to process and analyze available open-source Landsat satellite data

- **Spatial Planning:** informed decisions in urban development, data-driven policy making
- **Heat Island Assessments:** prioritization of adaptation strategies
- **Environmental Monitoring:** compare green coverage and land use with changes of surface temperature over time

FLEXIBLE
accessible
anywhere with
internet

**AUTOMATED
PROCESSING**
user-friendly
interface

<https://getsatellitedata.users.earthengine.app/view/citiesadapt>



1

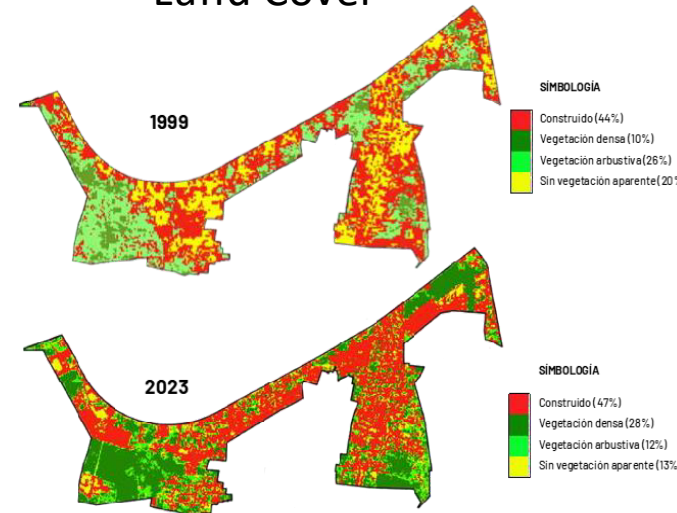
Find the area anywhere at the global map, insert a name and period to be analyzed

2

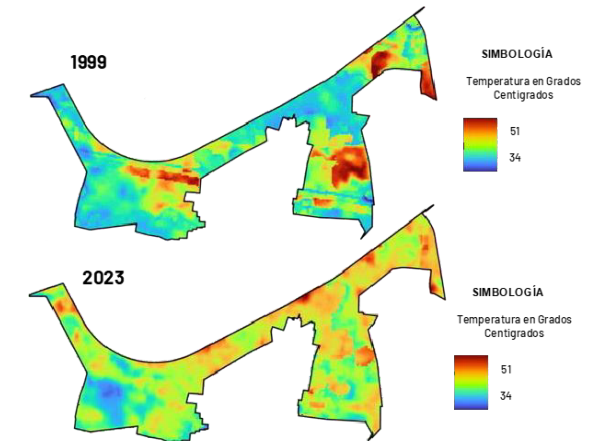
Draw a polygon

3 Done!

Land Cover*



Surface Temperature



Example: Plan de Ayala Sur Neighborhood, Transition Zone, Merida (MX). Increased build areas accompanied by increased warmer temperature areas

*Based on Vegetation Index (NDVI), Building Index (NDBI), Water Index (MNDWI)

[Try it here!](https://getsatellitedata.users.earthengine.app/view/citiesadapt)

Idea/ art competition

- An instrument to ensure **participation** in the process to plan adaptation measures
- Engagements that foster **creative thinking** about climate change and its future local impact
- It builds **awareness** and drives community-centered solutions for a sustainable future

MEXICO

- The student competition in Mexico sought innovative ideas for urban adaptation in Mérida among university students from the Yucatan Peninsula
- Over 80 participants in multidisciplinary teams of 3 to 5 members from 6 universities and 12 different study programmes
- The results are currently feeding into pre-feasibility and feasibility studies



Analysis presented by participants



SOUTH AFRICA

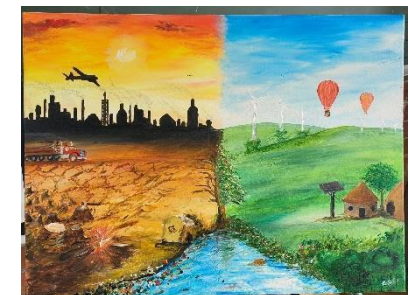
- In South Africa, the competition took place with students from 8 elementary schools in eSikhaleni, who presented an art painting that reflected on the question:

"How do you imagine your neighborhood of Esikhaleni in 10 years resilient and protected from the impacts of climate change?"

- The art competition was combined with a technical assessment of the schools including flood risks and their available infrastructure



Ilembe Primary School



Mzingwenya Primary School

Check out the other presentations [here!](#)

Sustainable Urban Financing Instruments Training

- The **virtual** training course* *“Sustainable Urban Financing Instruments for Municipal and Metropolitan Management”* was launched in January 2024 in collaboration with the Mexican Ministry of Urban Development (SEDATU)
- Attracted **over 3.000 participants** in its first round and offered a comprehensive 40-hour program
- Tailored for public, mainly municipal service professionals, students, and practitioners in urban development

Module 1	Urban management and the role of municipal governments
Module 2	Land financing instruments
Module 3	Financing housing development
Module 4	Urban financing and climate change

- ✓ The course contents are available in Spanish for download

[Learn more!](#)

*Collaboration between the projects CitiesAdapt, Biocities, the Lincoln Institute of Land Policy



Anacláudia Rossbach representing the Lincoln Institute of Land Policy in her speech for the event of inauguration of the course.



Omar Areizaga representing SEDATU in the closing lecture of the course.

cooperación alemana
giz
IKI INTERNATIONAL CLIMATE INITIATIVE

¡Bienvenidas y bienvenidos!

Curso Instrumentos de Financiamiento Urbano Sustentable desde la Gestión Municipal y Metropolitana



Q&A SESSION

THANK YOU FOR YOUR ATTENTION



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