



**UN-HABITAT**

**The Urban Vulnerability Atlas for evidence-based  
climate resilient investment decisions**

# **RISE UP Programme**

**Resilient Settlements for the Urban Poor**

GCF MENA Regional Dialogue 2024



# Facts & Figures

- Urbanization in MENA is accelerating rapidly. **By 2045, over 70% of the region's population will reside in cities.** (UNWUP, 2018)
- **MENA cities face mounting challenges from climate change**, including water scarcity, droughts, extreme heat, and rising sea levels. (UN-Habitat, 2023)
- **Urban sprawl** driven by rapid urbanization in MENA **threatens the region's unique biodiversity**, disrupting ecosystems and straining already limited natural resources. (UNEP, 2020)
- **81 million people live in informal settlements in MENA.** Often located in high-risk areas and lack essential services, they have a **heightened vulnerability to climate change impacts.** (UN-Habitat, 2020)



Syrian refugees in Dalhamiya informal settlement in Bekaa Valley, Lebanon- 2019

# Challenges

1

Currently, only **29% of climate finance goes towards adaptation.**

*(OECD, 2022)*

2

Less than **10% of available global climate finance** was prioritized **for locally focused climate investments.**

*(IIED, 2017)*

3

By 2030, **the developing world will have to spend up between USD 140 and 300 billion a year** just to cope with exacerbated climate impacts

*(UNEP, 2018)*

# Opportunities

&gt;

The investment in climate adaptation for **resilient infrastructure has a 4:1 return on investment** *(GCA, 2020)* also bringing **co-benefits for climate mitigation and the protection of biodiversity.**

&gt;

As **60% of the world's infrastructure is yet to be built by 2050** *(UNEP & IRP, 2013)*, the global urbanization trends offer a time-limited opportunity to work towards widespread and **transformational adaptation and Climate Resilient Development.**

&gt;

**Ecosystem services** delivered by biodiversity **are worth USD 125-140 trillion** per year *(OECD, 2019)*, solutions based on these services and local knowledge can effectively **adapt the most vulnerable communities and the built environment to climate change.**

# RISE UP

Global Portfolio: **USD 150 million** for climate resilient development

Global Coverage: **28 Least Developed and Developing Countries and Small Island Developing States.**



## Active MENA Regional Climate Portfolio

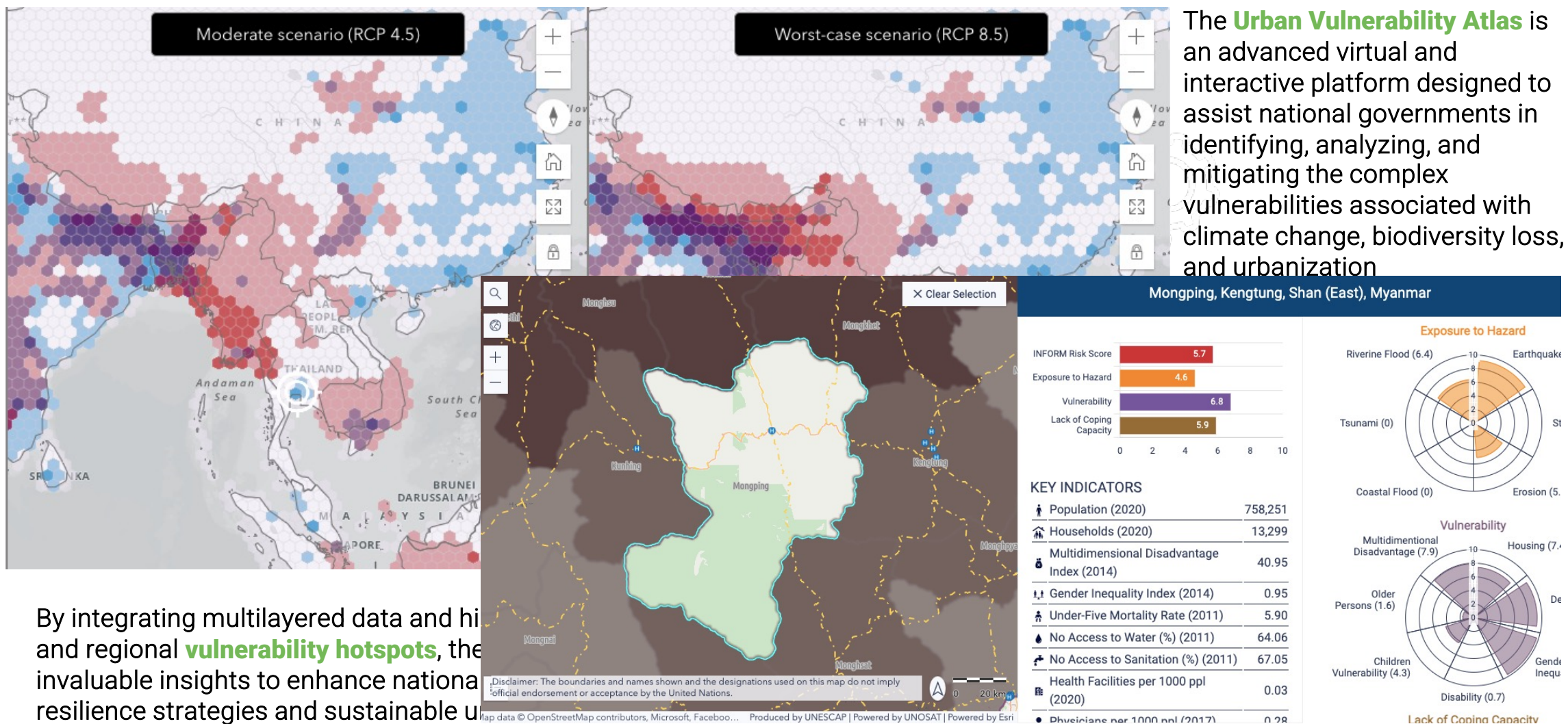
Value: **USD 45.6 million**

Coverage: **9 Least Developed and Developing Countries**



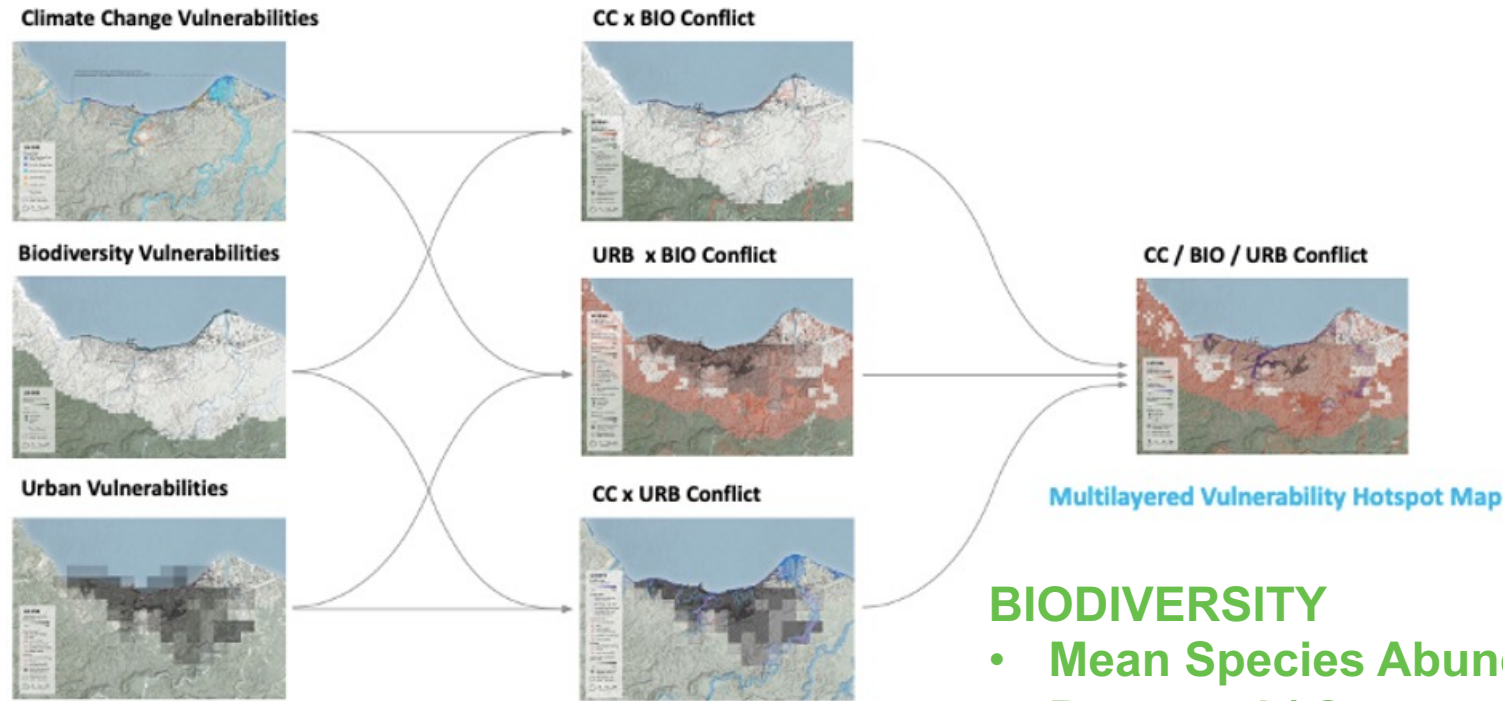


# RISE UP Urban Vulnerability Atlas (UVA)



By integrating multilayered data and high-resolution maps, the UVA provides valuable insights to enhance national resilience strategies and sustainable urban development action plans

# What type of data does the Atlas cover?



## CLIMATE CHANGE

- Temperature Rise and Precipitation
- Sea Level Rise
- Fluvial or Riverine Flooding
- Coastal Flooding
- Drought
- Extreme Heat
- Landslides
- Storm Surge / Cyclones / Hurricanes
- Coastal Erosion
- Air Quality

## BIODIVERSITY

- Mean Species Abundance
- Protected / Conservation Areas
- Biodiversity Connectivity

## URBAN

- Population and Population Density
- Urbanization and Urban Growth
- Land Use
- Socioeconomic Vulnerability
- Access to Services
- Informal Settlements
- Building and Infrastructure Typologies and Conditions

# Multilayered Vulnerability Assessment (MVA) Principles



## Geospatial

Spatializing challenges in built and natural environments



## Multidimensional

Collaborative and coordinated mapping and analysis process



## Multiscalar

Analysis to examine vulnerabilities at city-level regional and urban scale



## Anticipatory

Projecting and predicting future overlapping spatial vulnerabilities



# Key Functions and Features of the Atlas



## Integrated Data Layers

Combines climate data, biodiversity metrics, urban growth patterns, and socio-economic variables to provide a holistic view of urban vulnerabilities.



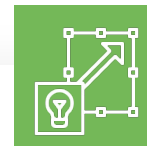
## Interactive Visualizations

Customizable, user-friendly, intuitive interface allows stakeholders to explore data through dynamic maps, charts, graphs, StoryMaps, and more.



## Hotspot Identification

Pinpoints areas of high vulnerability, helping prioritize intervention areas, communities, infrastructure, services, assets, and ecosystems.



## Scalability & Sustainability

Designed to be replicable, scalable and adaptable to various urban contexts and regions globally, particularly in data-scarce, low-resource LDCs and SIDS.



## Decision Support

Offers tools for multi-criteria decision-making, scenario analysis and impact assessments to support evidence-based policymaking and programming.

# Benefits of the Atlas for NDAs

## Data-Driven Policy Making

Empowers policymakers with accurate, timely data to craft effective climate policies and adaptation plans.

## Resource Optimization

Enables efficient allocation of resources to areas and sectors most at risk, maximizing the impact of investments.

## Stakeholder Engagement

Facilitates collaboration among government agencies, NGOs, researchers, and community organizations.



## Data Sovereignty

Enables the compilation, ownership, management and security of robust datasets in one interactive and accessible public-facing or private portal.

## Institutional Capacities

Builds technical, technological and institutional capabilities on geospatial mapping and analysis for climate action.

## Reporting and Compliance

Supports national reporting requirements for international climate agreements and funding mechanisms.

# Our Offer: Packages of a GCF Readiness





Your Partner of Choice  
For a better urban future



Thank you  
and let's stay in touch



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