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ASWAN
أرض الذهب LAND OF GOLD



Deep Dive into Heat Challenges in Aswan City - Egypt

Aug. 2023 – Jun. 2025

A collaboration between:

Urban Development Fund (UDF)

And

Aswan Governorate

Partners of Connective Cities



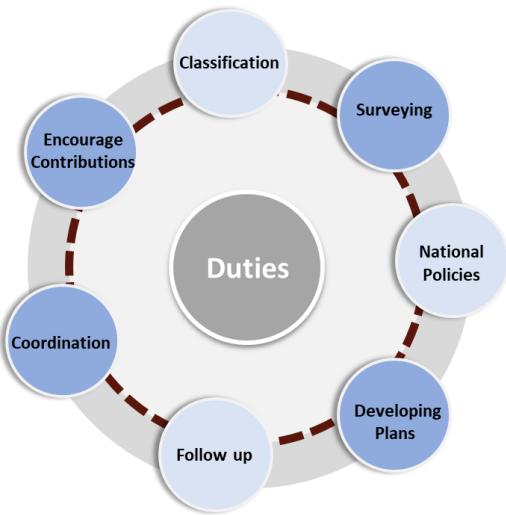
Commissioned by



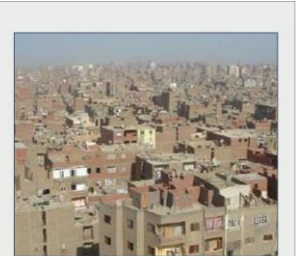
Informal Settlements Development Fund (ISDF) 2008-2021

ISDF was established by a Presidential Decree #305/2008 affiliated to the Egyptian Cabinet.

The main goal of ISDF is to contribute to ensuring safe housing in Egyptian cities.




Unsafe areas
1% of urban areas
The estimated development cost is
40 Billion EGP



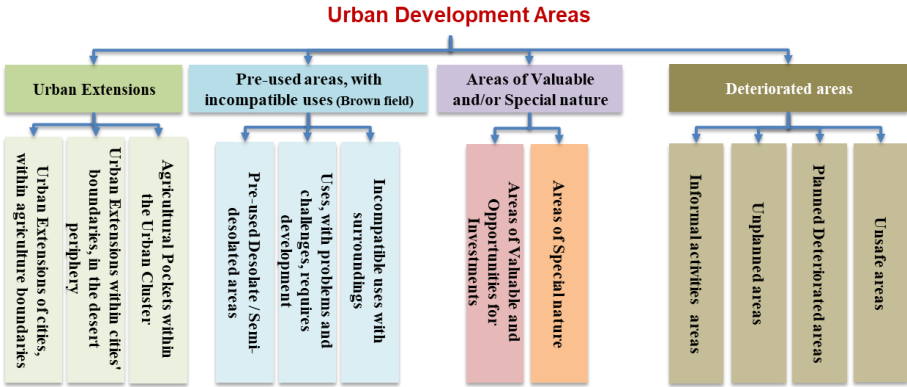
Unplanned areas
37% of urban areas
The estimated cost of development is
318 Billion EGP



Informal markets
The estimated cost of development
44 Billion EGP



Urban Development Fund (UDF) 2021



- 1 Coordination and policy formulation
- 2 Planning and Implementation
- 3 Finance and Management



The Beginning of Our Journey

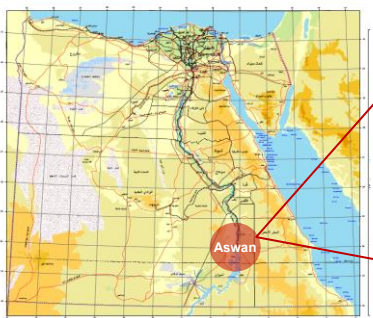
Call for participants – Deep Dive

Aswan city

- **Location:** Aswan is located in the southern part of Egypt.
- It is the capital of the governorate and is located approximately **890 km south of Cairo.**

Population 2022 : 371,000 inhabitants

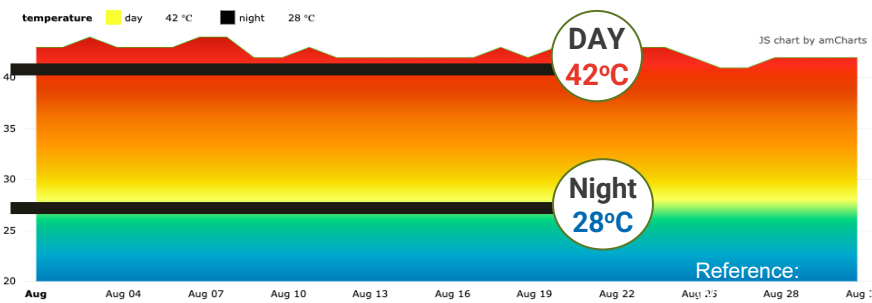
Area: 2600 acres



Extreme heat risks

**Aswan's hottest day ever:
Heatwave pushes
temperatures closer to 50°C**

Ahram Online , Friday 7 Jun 2024



Citizen Segments



Outdoor Workers



Elderly Individuals



Children



Women



Individuals with Health Conditions



Aswan: Day & Night

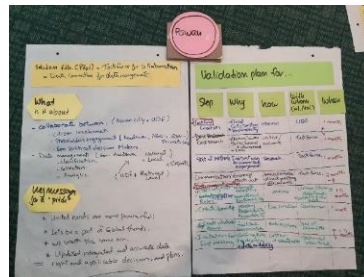




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Deep Dive Process



Getting to know
each other
(transfer-in)

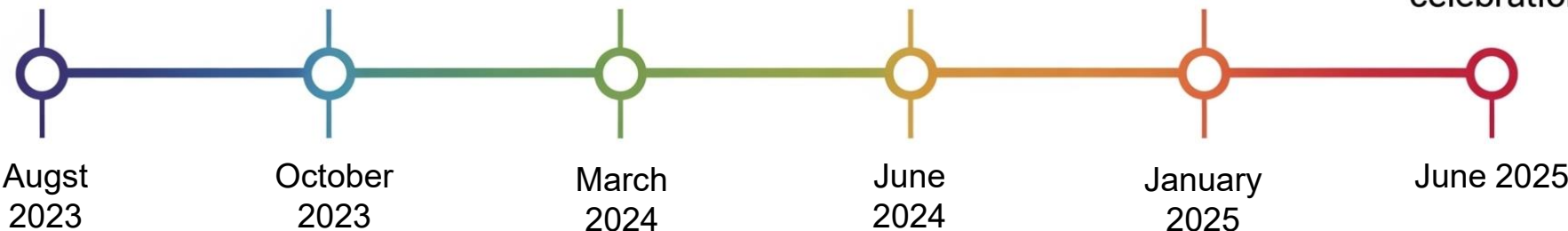
Training
participatory
research tools

From sensemaking
to
prioritization

From validation
to piloting

From piloting
towards
optimization

Showcasing and
celebration



Expected Outcomes

An urban heat plan for Aswan
Guideline for interventions
Thematic workshop

Adjust the Idea

Taskforce for collaboration.
Committee for data
management.

Final Adjusted Proposal

Develop a Framework for Urban Heat Adaptation for Aswan city.
Choose one zone to prepare a Heat Action Plan and develop a list of projects.

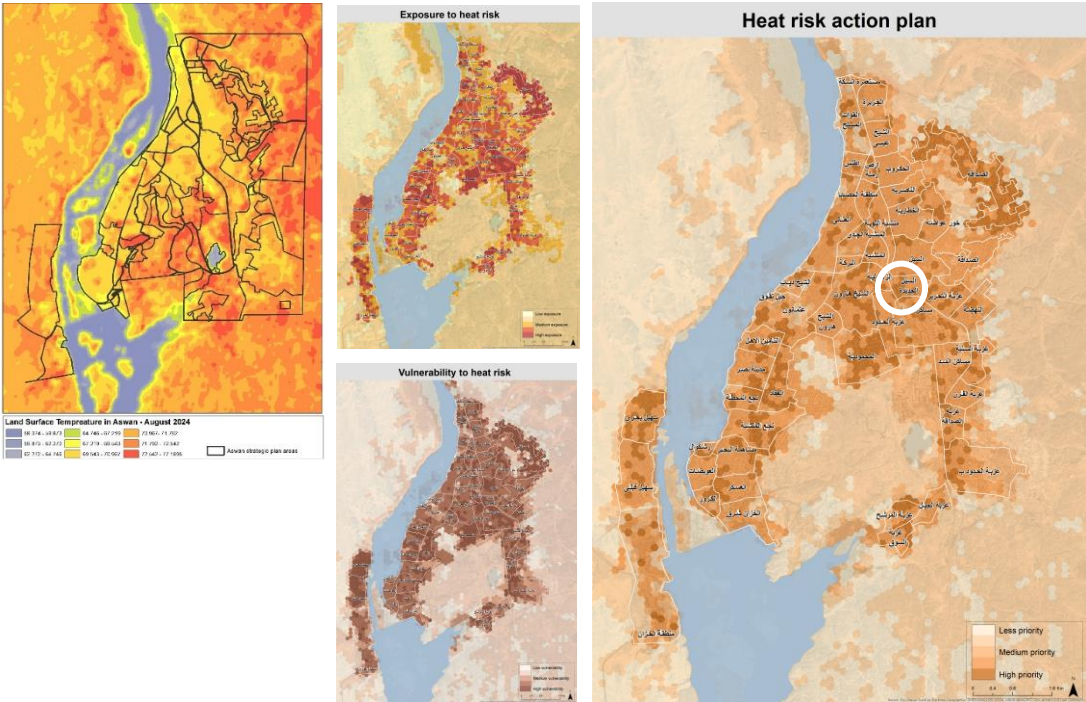


General Framework Focuses on 4 main tracks

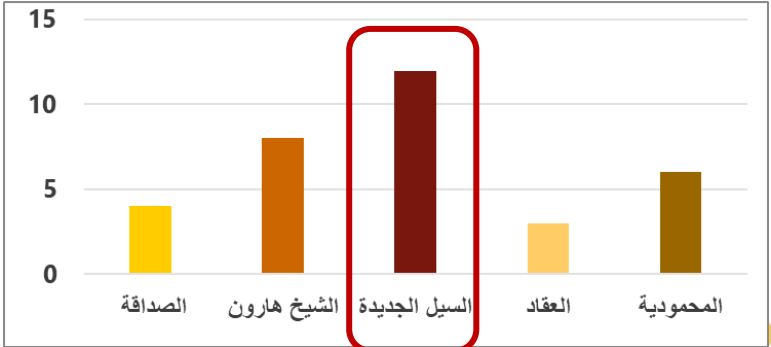
Learning from other experiences

- Adaptation Planning and Implementation
- Preparedness, Communication, and Workers' Safety
- Built Environment, Infrastructure, and Managed Spaces
- Ecosystem-based Adaptation

Multiple maps to identify the most vulnerable areas



Voting for area prioritizing and selection



Elsail Elgadid

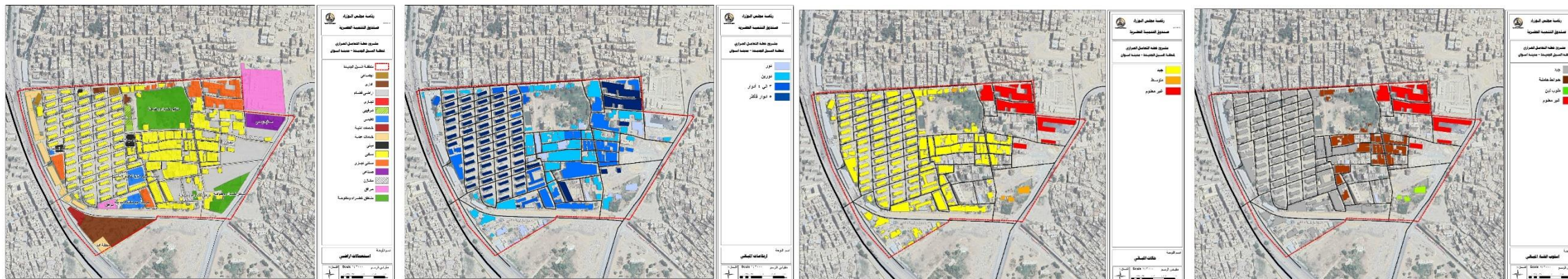


Developing the Heat Action Plan for “Elsail Elgadiid”

Urban Context

The area is **primarily residential**, featuring a **mix of government and private housing** that creates a striking contrast in the urban fabric. The government housing follows a **grid layout with wide streets** and ample open spaces, whereas the private housing is characterized by **narrow streets and a lack of open areas**.

- Area about: 76.4 acers
- Population about: 12,000 inhabitants



Developing the Heat Action Plan for “Elsail Elgadiid”

Mission

Reducing the impacts of extreme heat waves, helping communities adapt to heat waves in the context of climate change, and supporting local capacity to take action.

Goals

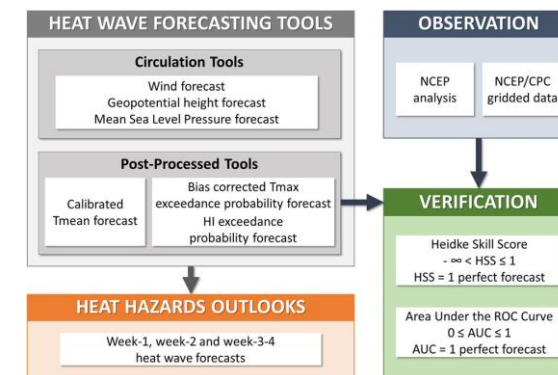
- Identify recommended solutions to adapt the current and future heatwave conditions.
- Prevent negative impacts on public health.
- Ensure implementing these measures in a coordinated manner.

Assessment



Recommended Actions

Integrated the guideline: **Climate Resilient Instrument (CRI)** that Developed in collaboration between UDF and GIZ Egypt as a part of CBUID project funded by BMZ.



Heat waves early warning systems



Widening planting & shading public spaces



Providing cool drinking water

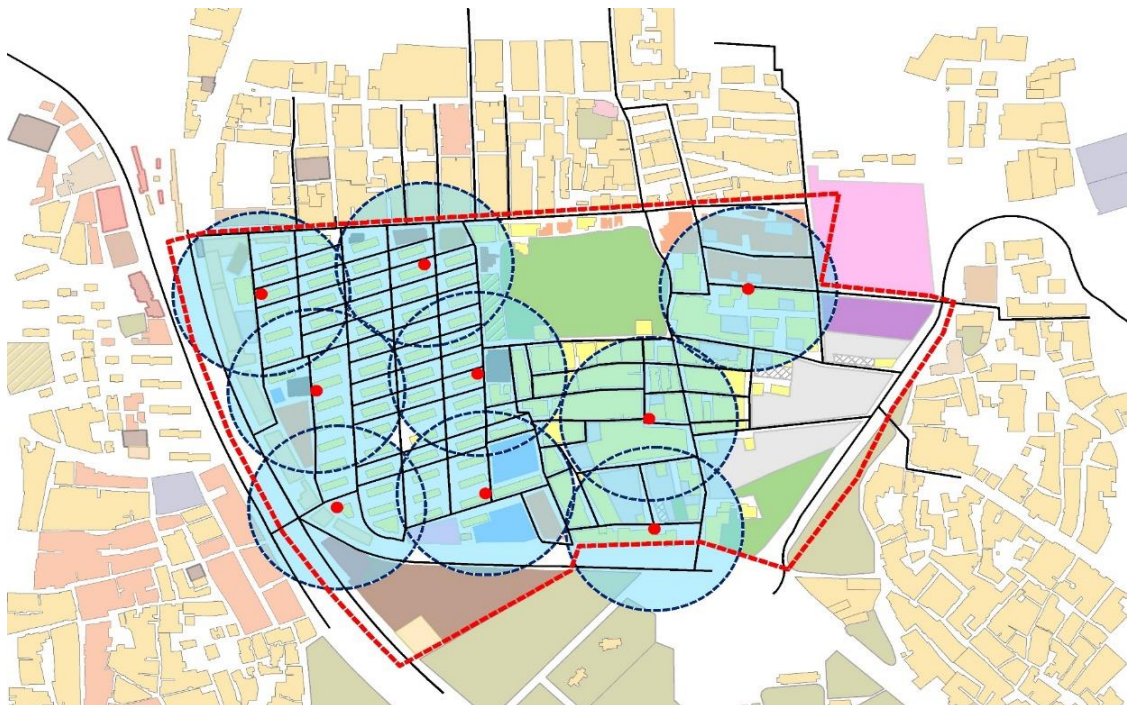


Shading markets

Developing the Heat Action Plan for “Elsail Elgadiid”

Identify Strategic Locations for Small Cooling Stations

- By using GIS to ensure optimal coverage of the entire area, based on an 80-meter walking distance.
- These locations should also be connected to the water network, considering both water consumption and refilling logistics.



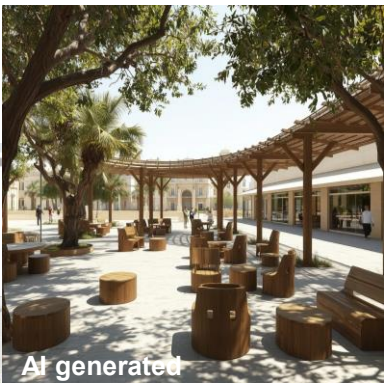
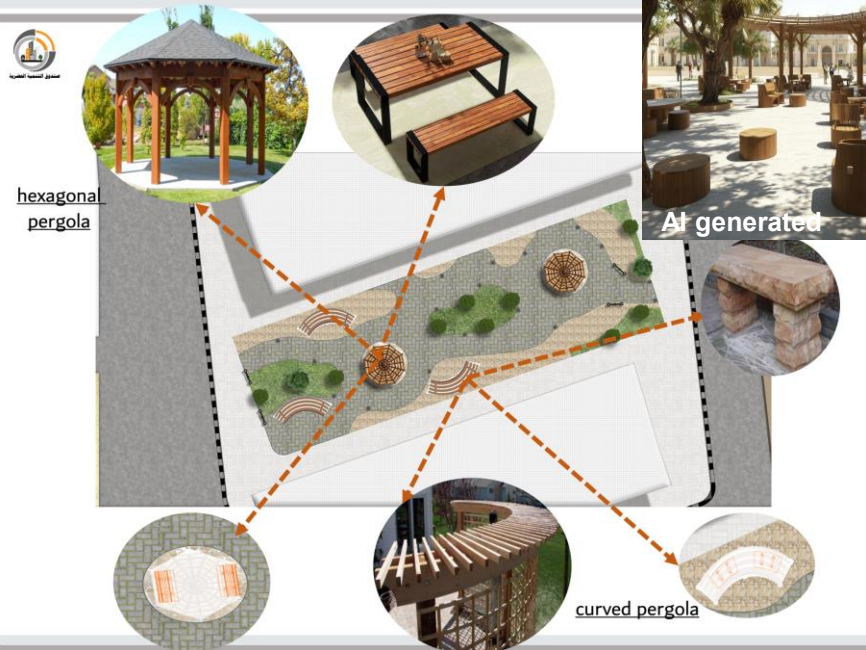
Proposed Three Locations for Place-making (around 500 m2 for each one).

- **Public space**: open gathering space with different kind of shadings.
- **Kids area**: shaded kids' area with interactive play structures.
- **Women gathering** open area.

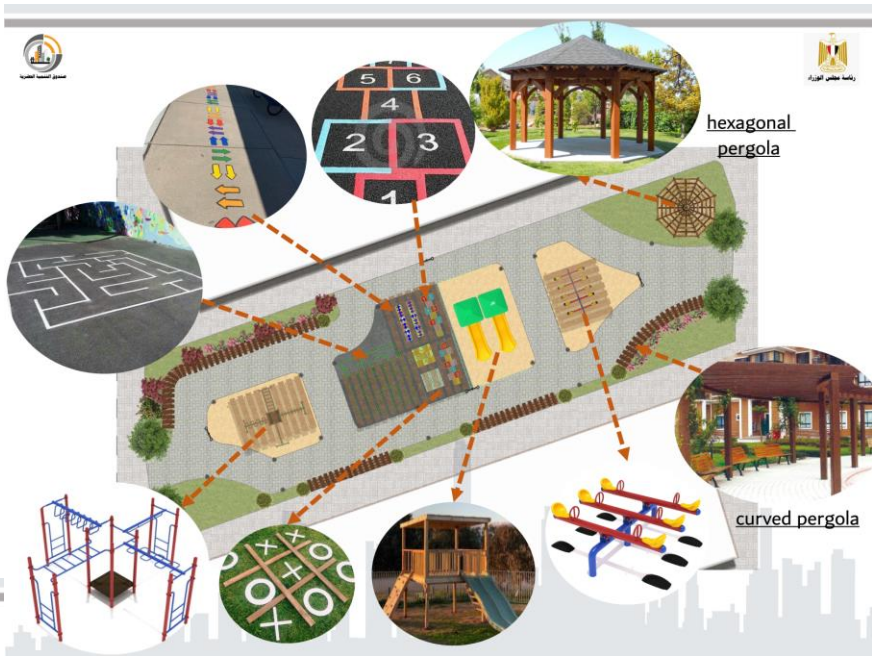


Developing the Heat Action Plan for “Elsail Elgadid”

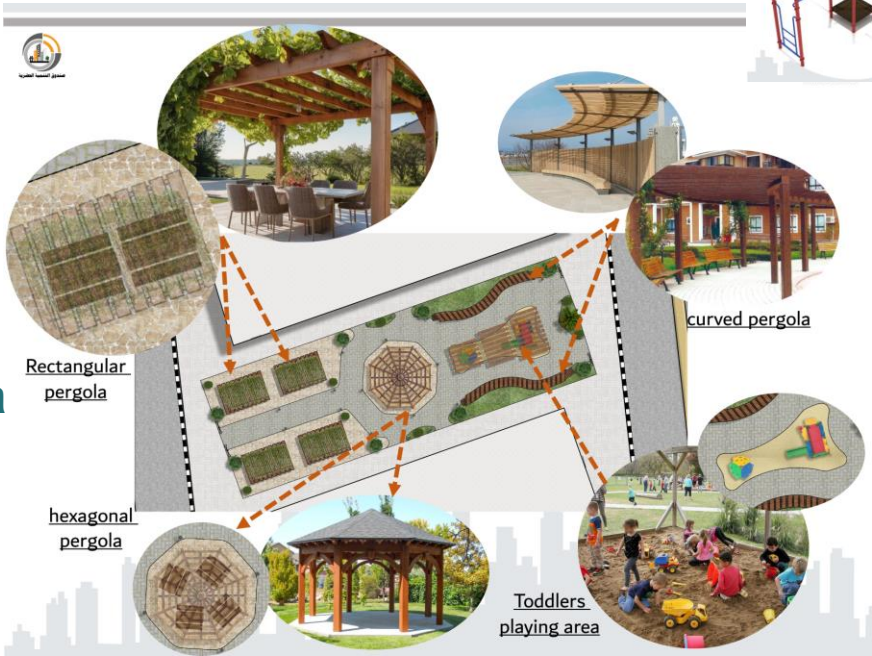
Public space 35,150 Euro



Kids area 68,300 Euro



Women gathering area 43,820 Euro



Next Steps: Scaling Up the Aswan Experience

Scaling up the heat action plan and adjusting it for other cities (other governorates)

Effective approach

- **Select specific locations** where the proposed solutions will be applied **based on need, impact, and feasibility**.
- **Design tailored interventions** and implementation strategies for each selected site, **considering the unique characteristics and community needs**.
- List of interventions generated according to best practices and lessons learned.
- **Track and record each stage** of the implementation to ensure transparency, support future scaling, and capture learnings.

Scalability strategy

- General **mainstreaming** by UDF.
- **Use the UDF guideline**: Climate resilient instrument (CRI).
- **Integrate** the national level with the local level.

Sustainability perspective

- **Taskforce** to follow up, monitoring and feedback loops.
- **Capacity building** and raise awareness on local level.
- **Co-creation** between all relevant stakeholders and **strengthening** local ownership
- **Engage the local community and NGOs** to involve all initiatives.
- **Allocate and mobilize resources** to create a sustained funding pathways



Thank You