

Reducing heat islands in urban neighbourhoods

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KC 4C30 and Globe G430

Potential Climate/ Disaster Impacts addressed and Justification for this Approach

The measure aimed to pilot methods for retrofitting buildings in informal settlements such as plastering painting to improve thermal insulation and decrease heat gain, as well as rooftop shading, rooftop farming, and wall greening. The measures helped improve the overall microclimate of some residents' homes who are living in poor conditions. Additionally, some pilot measures were implemented on the neighborhood scale which includes shading of a market space in a heat sensitive area.

Process of Implementation

In cooperation with public authorities, such as the governorate urban upgrading units, and authorities on the local district level, the measures were implemented in very close collaboration with community leaders to facilitate among the community at large. All measures were implemented with a focus on raising awareness on the impacts of climate change on cities, and how small-scale measures can improve the overall micro-climate.

Project Title

Participatory Development Programme in Urban Areas

Project Number

10.2192.2-001.00

Results and Impacts

Buildings were plastered and painted with light colors to increase reflexivity of the building and thus improve heat insulation. These measures were replicated in other areas. Street shading resulted in the improvement of the overall market experience as people were able to spend more time in the market due to the installed shaded areas. This therefore had a socio-economic impact on the specific community.



TYPE OF APPROACH

Implementation of technical solution



COUNTRY

Egypt



LEVEL OF INTERVENTION

city, neighbourhood



TYPE OF RISK MANAGEMENT

resistance



MAIN HAZARDS ADDRESSED

Heat Wave



URBAN FUNCTION PROTECTED

Recreation



SPHERE OF INTERVENTION

socio-political sphere/ governance, economy, environment



RESOURCES REQUIRED

2 national staff for 2 years



COOPERATION PARTNERS

Local authorities (district level, governorate level), consultants



LINKS

<https://www.youtube.com/watch?v=Z6K2eEHYXLO&t=1s>
<https://www.youtube.com/watch?v=hIddNMdVRu4>