Action for Cool Cities- Pathways for carbon reduction in buildings and improvement of outdoor thermal comfort

Module 2 of the learning process: Ideation and Prototyping – 7 to 9 March 2023

Overview

As a second milestone of the learning process 'Action for Cool Cities – Pathways for carbon reduction in buildings and improvement of outdoor thermal comfort', Connective Cities organised the ideation and prototyping workshop that was held in Amman, Jordan on the 7th-9th March 2023. The workshop supported cities in the ideation, testing and technical advisory to create and scale up innovative solutions to optimise municipal practices and projects related to mainstreaming climate considerations in municipal urban planning. The following thematic fields were under focus:

1. Designing climate-responsive outdoor public spaces and promoting engagement of citizens
2. Steering Structure: Interdepartmental Communication framework/platform in municipalities
3. Optimizing existing building and urban design regulations by introducing key performance indicators and improving in-house capacity to drive change
4. The role of municipality as a regulator and implementer: budget analysis and strategies for cost recovery of climate action measures

Program

The workshop activities were carried out over three days, and included peer learning group work and tailored technical inputs from experts. To guide the process of ideation and prototyping, a project management approach was adopted, namely the 'Process flow diagram'. Within four thematic working groups, the seventeen participating municipalities jointly developed seven ideas for prototyping.

To set the scene for the workshop, Dr. Muna Shaban (Connective Cities-Programme component manager) presented the structure of the learning process, the achievements and the envisioned outcomes of the workshop.

The main objectives of the workshop include:

1. Supporting the participating municipalities in **devising solutions (including strategic plans)** via peer learning and tailored technical advisory to achieve their desired goals of carbon emission reduction in their building stock and improving outdoor thermal comfort. These include both hard and soft interventions.
2. Developing the competencies of participants to lead **organizational changes related to improving procedures and methods** relevant for simulating various scenarios to meet the desired carbon-emission reduction goals in their building stock and the improvement of outdoor thermal comfort.
3. Supporting the participating municipalities in **risk assessment and spatial mapping of heat vulnerability in urban areas**, as well as updating climate data for municipal decision making influencing the achievement of their desired goals of carbon emission reduction in building stock and improving outdoor thermal comfort.

Keynotes

The workshop kicked off with an opening and welcome session, during which Ms. Christiane Hagenacker (Connective Cities /Ricarda Messmer) as well as the head of the environment and climate portfolio at GIZ Jordan (Christiana Hagenacker) welcoming the participants. This was followed by a keynote speech by Akram Khraisat (director of the Greater Amman Municipality, Department of Planning) on the local achievements for climate action in the city. In his keynote

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Presentations

Several expert inputs were integrated into the process. This included the technical advisory provided by Prof. Dr. Shady Attia (Head of Sustainable Building Design Lab (University of Liège). In addition, an innovative feasibly method by the name of Miyawaki was showcased by Deema Assaf from TAYYUN for restoring ecosystems and increasing green areas in cities. Through an organised site visit and a presentation by Meyssoun Al-Khyarawat (USGBC Faculty & IFC EDGE Expert & Auditor), participants have learned about the good practice example for EDGE certified buildings in King Hussein Business Park in Amman.

All presented materials can be found on our Network Platform via link this.

Results

Starting with the identification of the main stages of each project, the participants within their groups focused on specific case studies to develop ideas for prototyping. This was followed by the definition of objectives, the selection of inputs, decision gates, as well as necessary documents and assumptions that will influence prototyping the ideas.

Most participants shared similar challenges in existing strategies and steering structures and agreed that changes in steering structures and communication strategies were highly needed to improve status quo, as well as implementation of the developed ideas in their institutions. Furthermore, participants highlighted the need for awareness campaigns and skill development workshops, as well as engaging different sectors into the process.

As a pre-final step, participants have reached out to experts within their respective municipalities to present their ideas and validate it based on their feedback. Finally, the participants presented their ideas using one of the following methods: storytelling, role playing, mini video, or a photo.

Participation in the second module of the learning process 'Action for Cool Cities' enabled the municipalities to share experiences, develop their capacities, and develop ideas for prototyping in their municipalities. Which include:

- Urban Park Prototype in Bab Amman – Jordan and El Kalaa – Tunisia
- Rainwater Infrastructure Prototype – Wadi – Jordan
- The Citizen's sphere: Digitalisation of Municipal Services in Jendouba – Tunisia
- Sustainability and Climate Change Unit in the municipality of Hebron – Palestine
- Regional Park Prototype in Khan Younis – Palestine
- Aqi Creek Prototype: urban cooling and flood risk mitigation in Kisumu – Kenya
- The next stage of the learning process will give a chance to these municipalities to test and optimize the envisioned prototypes.

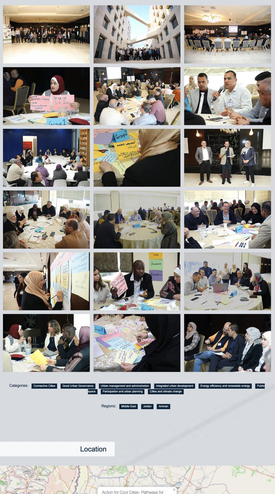
Report

Action for Urban Cool Cities: Pathways for carbon reduction in buildings and improvement of outdoor thermal comfort

2023 - Documentation of the Connective Cities Learning Process (pdf, 19 pages, 1.05 mb)

Watch video about the event at YouTube: https://youtu.be/Y4sHTRRFeKA

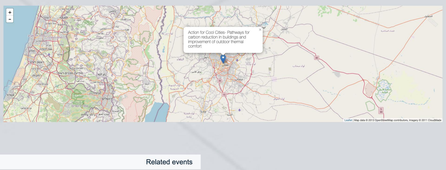
Gallery



Categories: Extensive Care | Green Urban Development | Urban Management and Administration | Integrated urban development | Energy efficiency and renewable energy | Water | Participation and urban planning | Water and climate change

Regions: Middle East | Jordan | Palestine

Location



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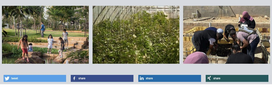
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