

Cooling Nairobi: Greening Schools Against Heat



Introduction

Urban heat rising due to loss of green cover and climate change.

- Vulnerable school children exposed to high daytime temperatures.
- Need for data-driven and community-led solutions.

Objectives of the Plan

- Reduce heat stress in schools and urban zones.
- Engage schools and students in environmental action.
- Develop a replicable heat mitigation model.

Timeline

- 2023: Heat mapping & school selection
- 2024: Tree planting, awareness programs
- 2025: Data analysis, scale-up plans
- 2026–27: Policy integration & citywide rollout

Expected Outcomes / Benefits

- Improved thermal comfort in school
- environments.
- Increased green space, food security and biodiversity.
- Enhanced community awareness and resilience

Our Strategy

Heat mapping campaign across Nairobi



Development of heat maps



Challenges & Solutions

- Limited resources \rightarrow used schools as hubs
- Data gaps ightarrow citizen science & partnerships

Success Factors

- Local data and satellite analysis
- Youth-led greening initiatives
- Multi-level collaboration

Upscaling & Vision/Call to Action

- Support the expansion citywide scale-up greening of public spaces, institutions and informal settlements
- Involve local communities in tree care and climate education.
- Develop a formal Heat Action Plan (Use of data to inform HAP)
- Secure long-term green infrastructure funding & policies

Tree planting based on heat maps



