

# Cambodia

Addressing Urban Heat Island and Climate Change  
Challenges

# Challenges

- Increasing temperature from climate change
- Limited parks, green space, and vacant government land
- Rapid loss of natural lakes and wetlands
- Increasing energy dependence for cooling
- Limited practice of green architecture, and need to reinforce regulations
- Lack of green urban planning ( for instance: wind and water corridors)
- Increasing fossil fuel consumption leading to environmental pollution (growth of private vehicles)

# Learning Goals

- Urban Heat Island reduction in urban planning tools, regulations, and policies
- Experiences from other countries on natural adaptation and mitigation for UHI
- Resource mobilization for UHI reduction

# Takeaways

- Example sharing by participants and presenters on various strategies and methods for resource mobilization for UHI
  - CDM project
  - Reduce private vehicles
  - Urban greenery (parks, street, vertical gardens, and green roofs)
  - Cool paints to minimize the outdoor air temperature

# Transfer and application of knowledge

- Experience sharing from training which are viable and achievable for the Cambodia context will be shared at home, especially on natural urban heat mitigation
- For example: from the day we learned about the urban cooling solutions in Singapore which integrated urban cooling solutions to relieve UHI. Furthermore, about the mapping and modeling of UHI.

# Barriers to Implementation & Solutions

- Limited public awareness on UHI
- Limited research and data on UHI
- Limited human resources and knowledge on UHI, especially among relevant stakeholders
- Current lack of collaboration among key stakeholders (researchers, academics, private sector, national and sub-national) to fill knowledge gaps, create innovative solutions, and strengthen capabilities.

# Action Plan & Accountability

- Public awareness campaign on UHI and climate change
- Mainstreaming UHI in policy, regulatory framework, and guidelines
- Encourage incorporating UHI and climate change topics in school and higher education programs
- Collaborate with private sector through PPP and BOT approach to identify innovative and applicable solutions for Cambodia

## Follow-up with Singapore Partners

- Start networking with development partners including Singapore agencies ... will follow-up in the future as we move the UHI agenda