



ASIA-PACIFIC MINISTERIAL CONFERENCE ON

Disaster Risk Reduction

Brisbane, Queensland, Australia 19–22 September 2022

Working Session: Nature Based Solutions: Building Resilience in Blue and Green

The implementation of Nature-based Solution in Thailand

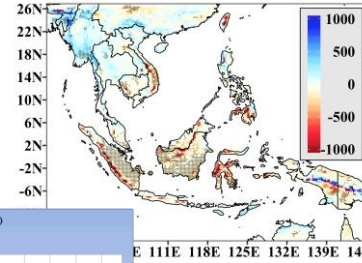
By Ms.Nareerat Panmanee

Director of Climate Change Management and Coordination Division (CCMC)

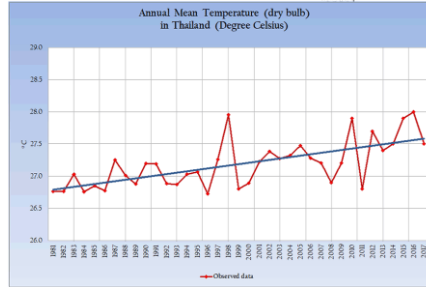
Office of Natural Resources and Environmental Policy and Planning (ONEP)

Climate Change Impact in Thailand

Hazard

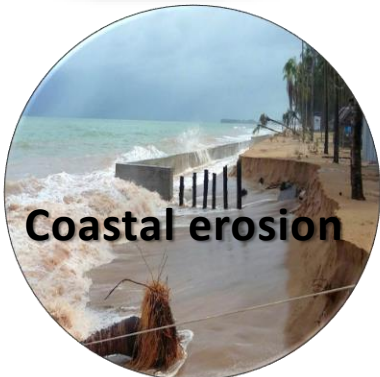


Changing precipitation patterns



Rising temperatures

Natural Disasters



Agriculture



Industry



Social & Economic Sectors



Tourism/Biodiversity



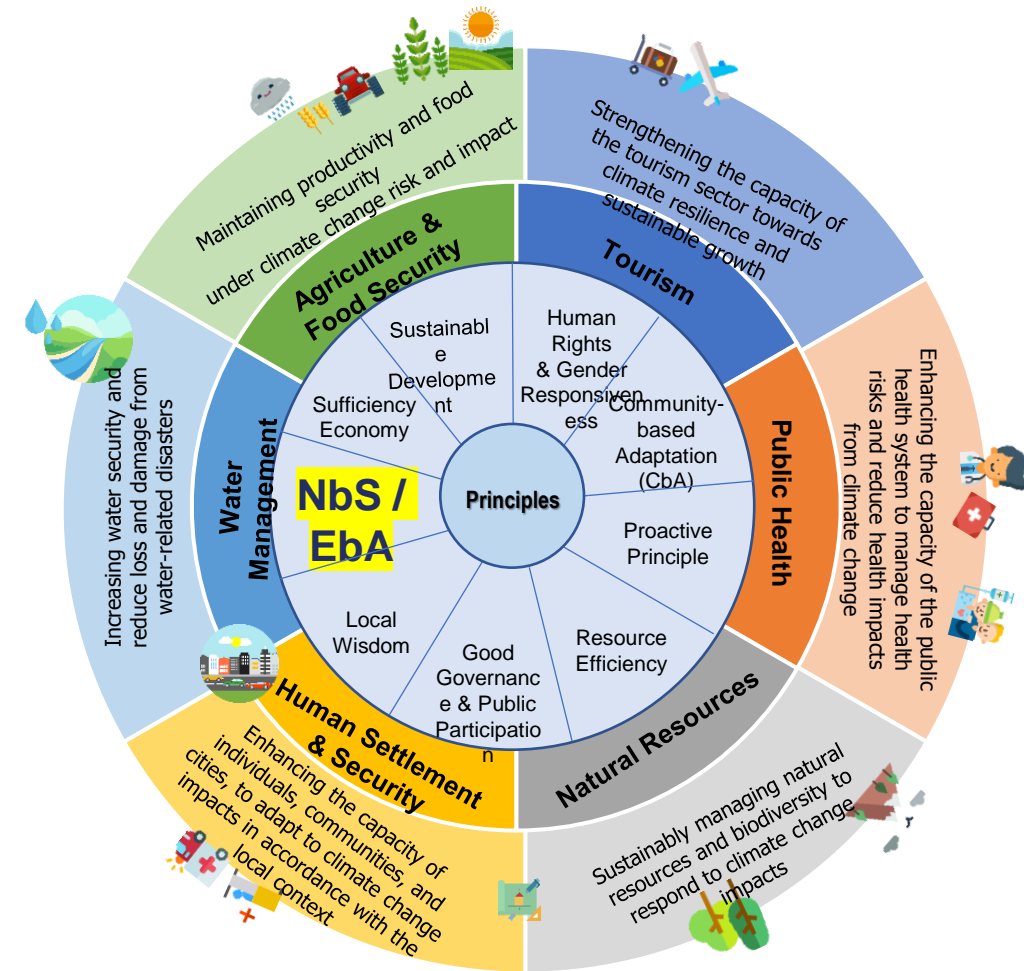
Human settlement/Migration



Tropical Decease

Policy framework and implementation pathways

National Adaptation Plan (NAP)



Example measures of NbS/EbA

Develop Ecosystem-based Adaptation (EbA) guideline

Establish criteria for coexistence between humans and forests by using EbA

Strengthen coastal area capacity to respond to and prevent the impacts of storm surges such as installing bamboo barriers,

Build knowledge and understanding on climate change impacts and enhance adaptive capacity of all stakeholders through the EbA

Develop additional green multi-use spaces

Promote buildings with climate-resilient architecture and adaptive design

Valuing the Benefits of Nature-based Solutions for Integrated Urban Flood Management Project



Objective

To develop framework for identifying and evaluating of benefits with NbS in the context of IUFM in Thailand



Activities

Developing Guide and Tools for the economic valuation of NbS for IUFM



2 Pilot Areas

Sukhumvit District,
Bangkok



Sukhumvit Road,
Rayong



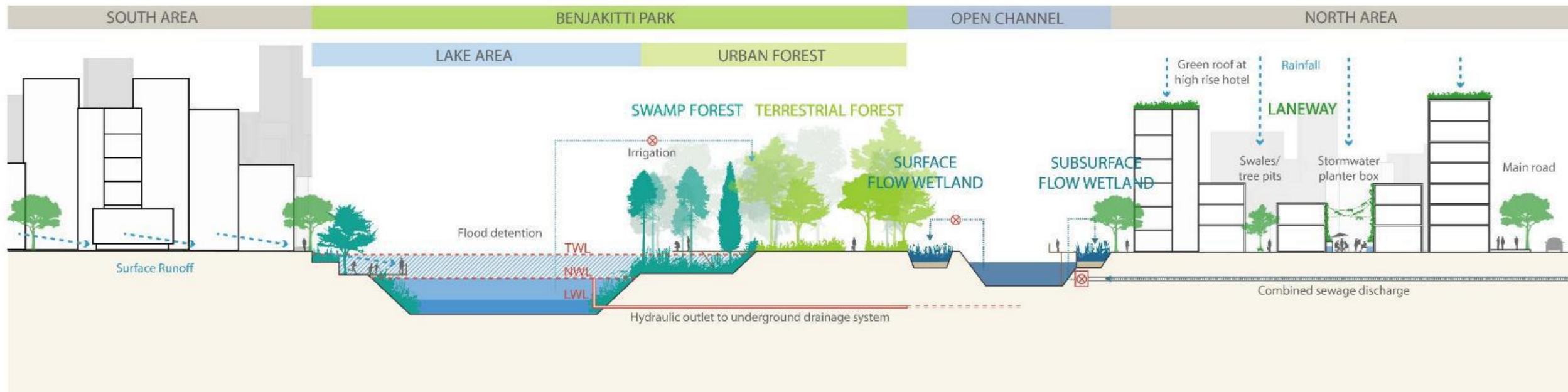
Knowledge transferring and capacity building

Case 1 The Sukhumvit Green Triangle, Bangkok

Benjakitti Park



The Sukhumvit Green Triangle, Bangkok



Transect overview of the hybrid approach for Sukhumvit

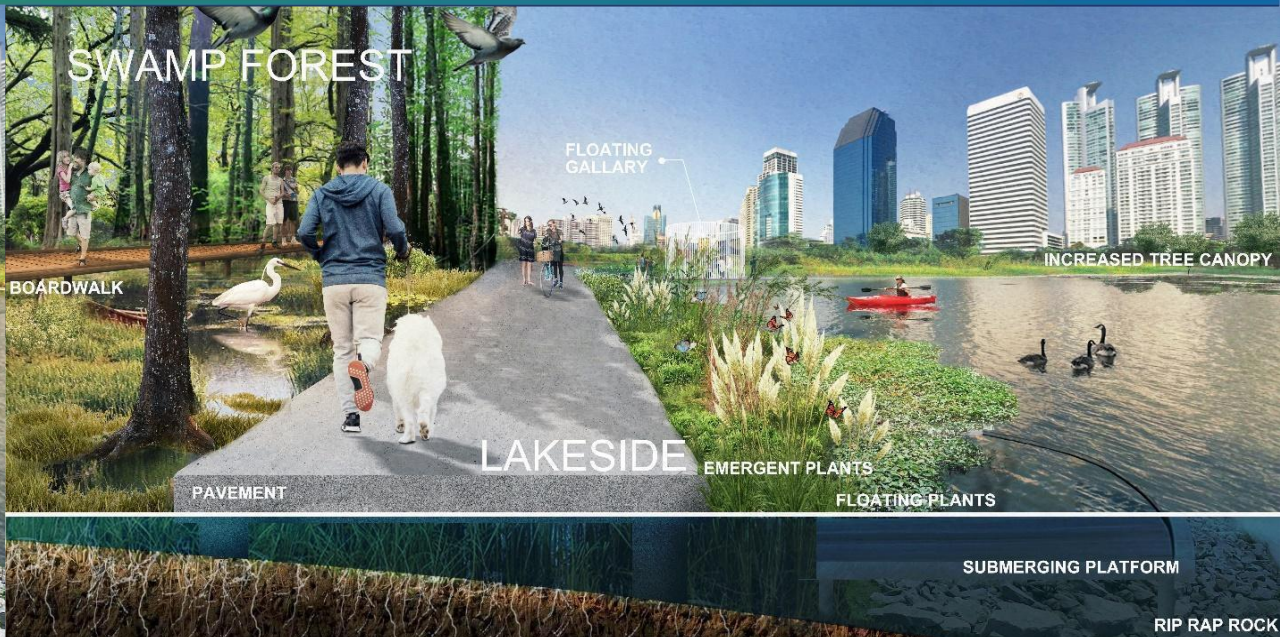
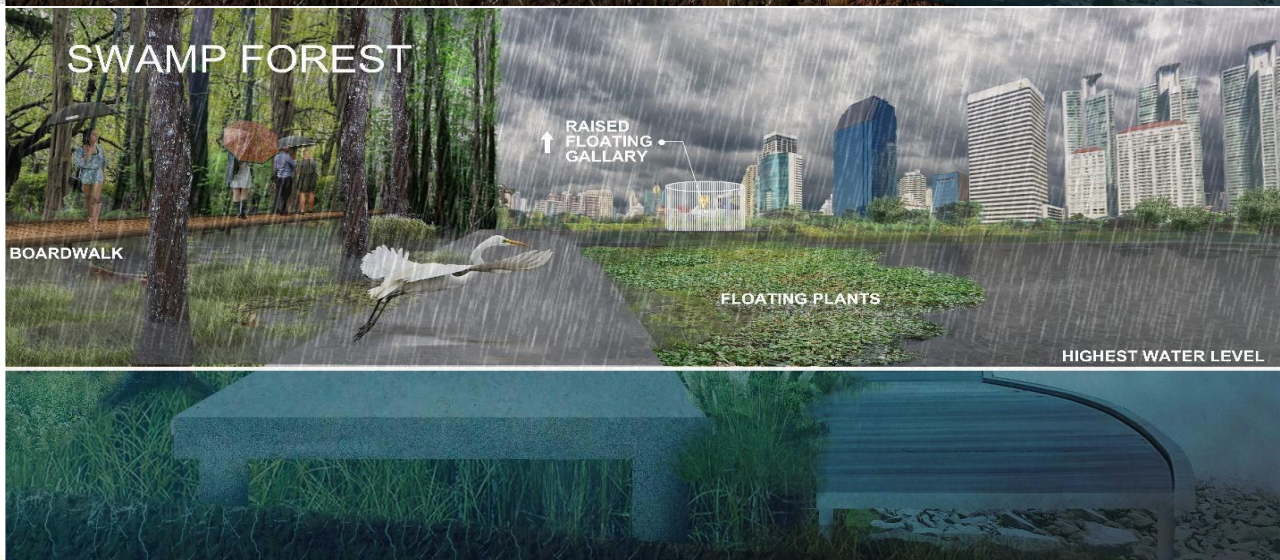


Illustration of the multifunctional Sukhumvit wetland park under different climate conditions



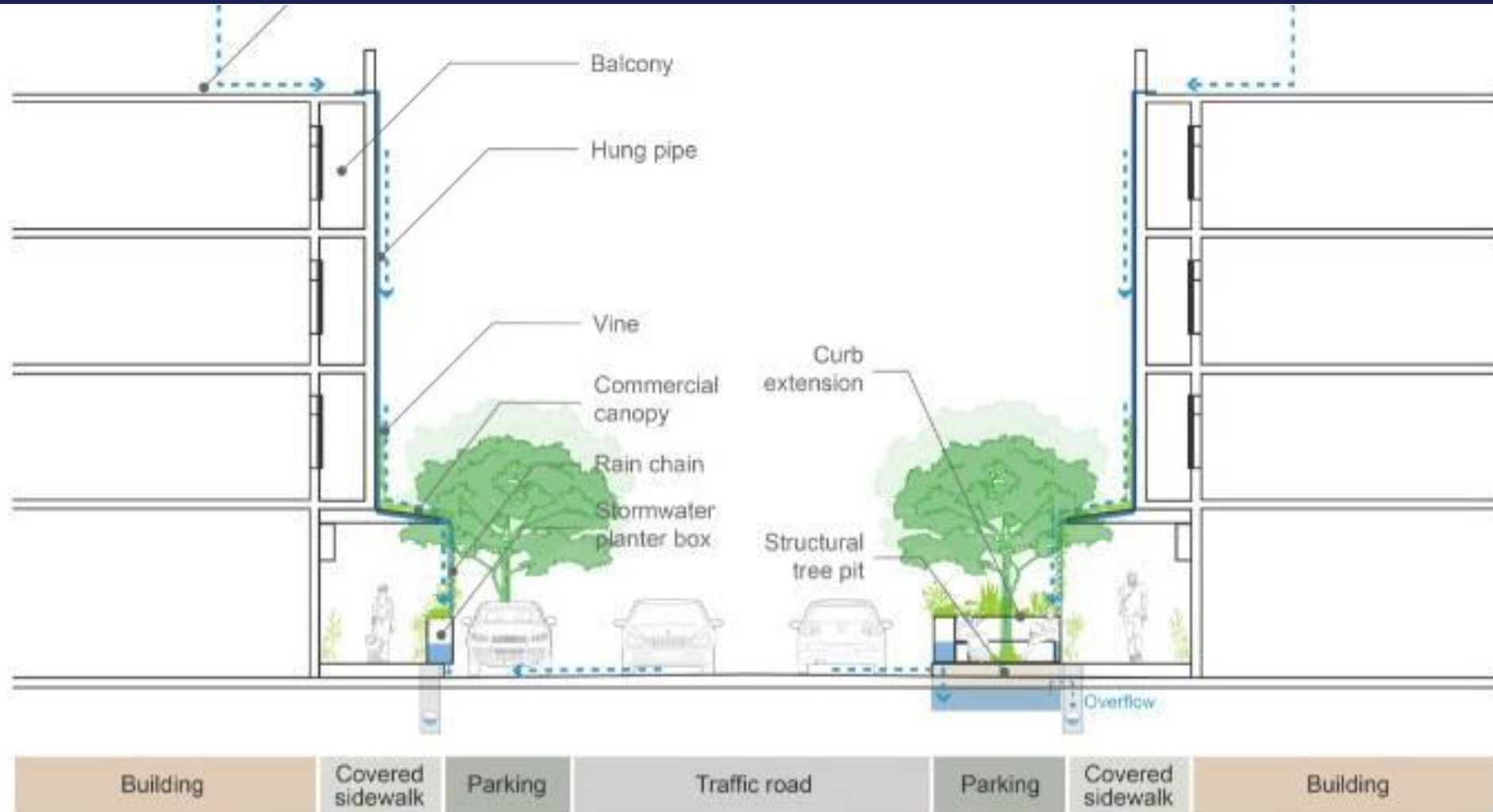
Source: Water Sensitive Cities Australia



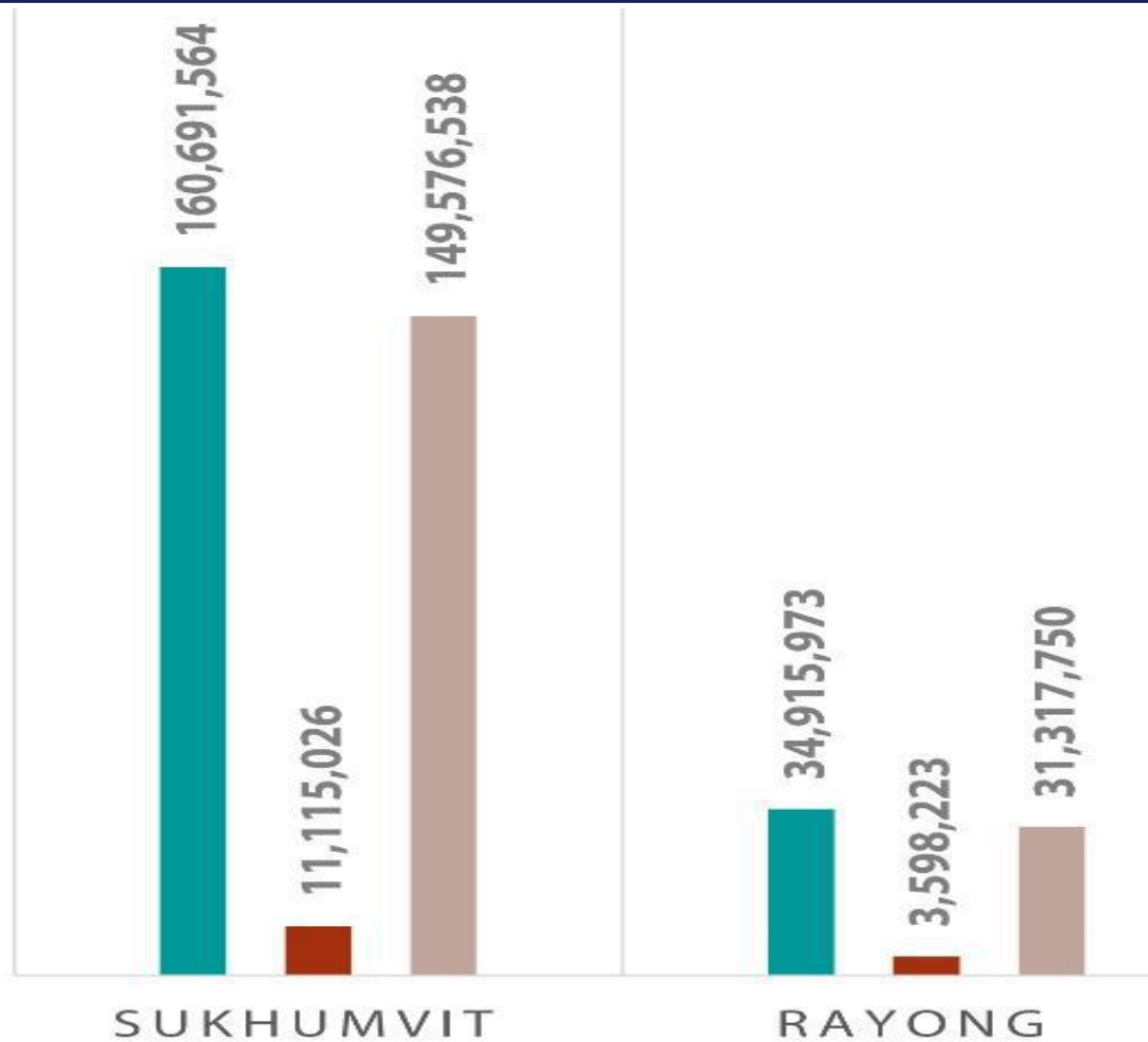
Case 2 A cool green central business district for Rayong



Streetscape greening transformation of Rayong's Central Business District



BCA results for 2 case studies of Thailand



Source: Project team

NbS Implementation in Thailand : Chulalongkorn University Centenary Park





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