



Strengthening transboundary water security with Nature-based Solutions

Transboundary Water Cooperation in the Lower Mekong Basin

Nike Minna Hestermann | 02. April 2023



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Joint Project on Flood and Drought Management between Cambodia and Thailand



Component 1 : Joint Planning

Component 2: Creating Resilience

Component 3: Information Exchange

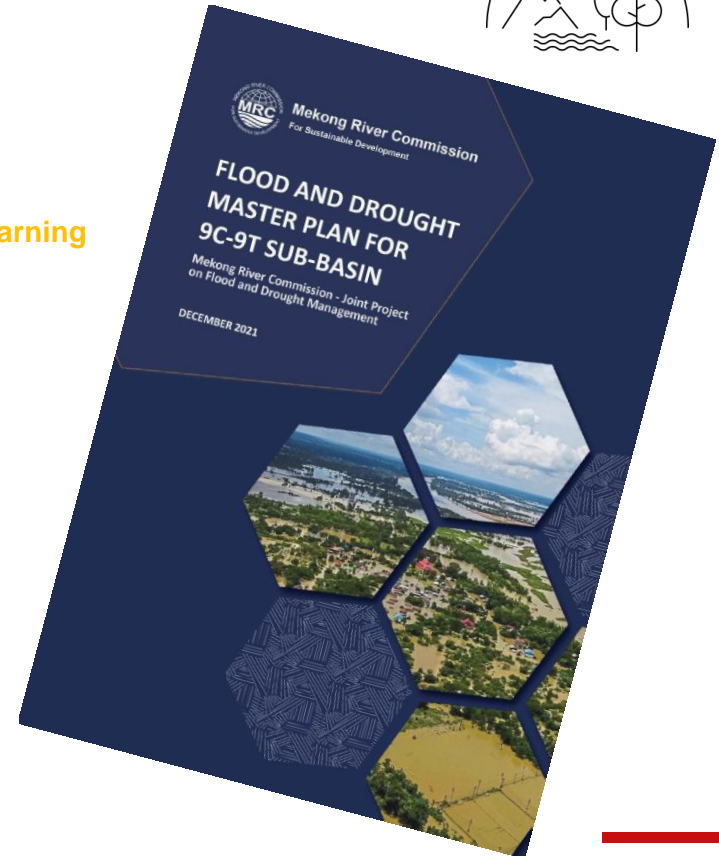
Component 4: Monitoring and Early Warning

Component 5: Capacity Building



Shared Vision

The 9C-9T is a sub-basin that is a healthy, clean and productive system that sustains ecosystems, reduces risks from floods and drought, and provides valuable services for all, now and in the future.

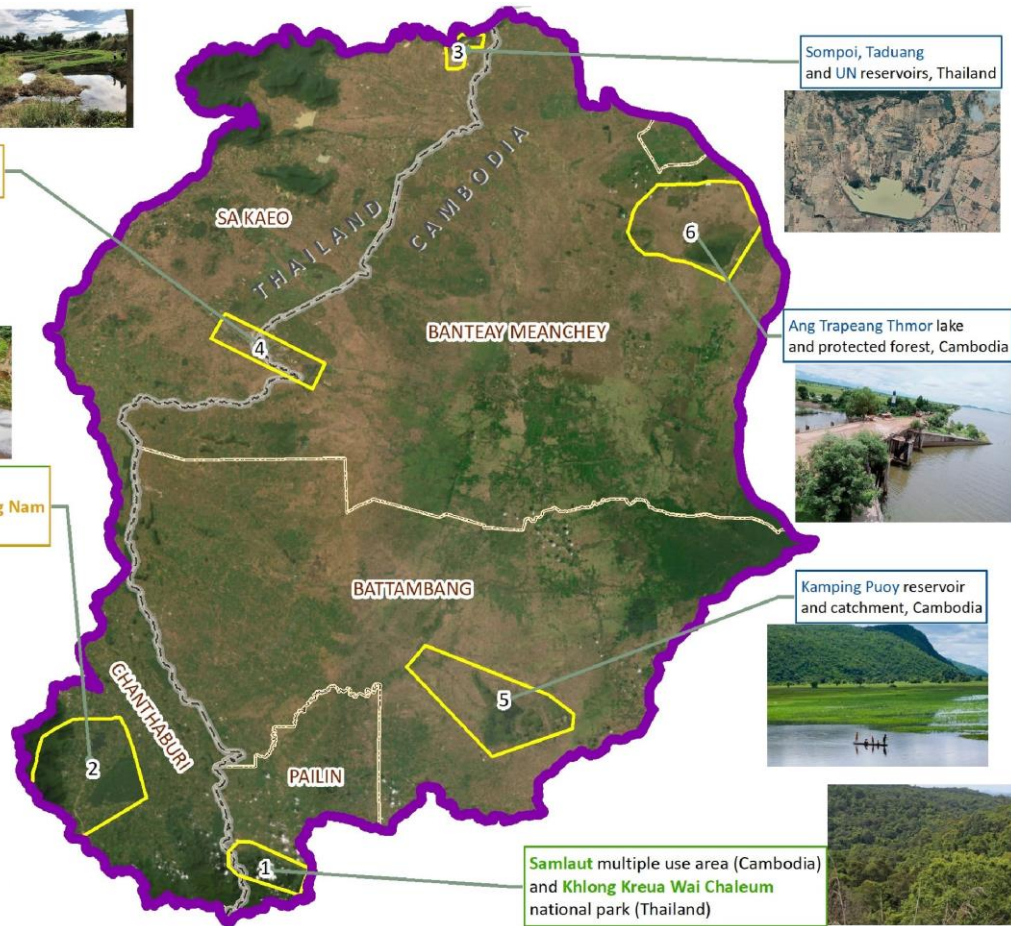




Poipet (Cambodia) and Aranyaprathet (Thailand)



Khao Soi Dao wildlife sanctuary and Pong Nam Ron, Thailand



➤ Component 2: Establish a network of 'sister' projects of nature-based solutions

Nature-based Solutions for Flood and Drought Management



Protect > Manage > Restore



Fresh water Ecosystems (wetland, river, floodplains,...)

Terrestrial Ecosystems (forest, grassland,...)

Co-Benefits:
Erosion Reduction,
Increase Biodiversity,
Carbon Sequestration,
Recreation.

Ecosystem-based Water Management

- Increase Natural Water Storage
- Foster Infiltration
- Refill groundwater aquifer
- Slowdown Runoff
- Improve Water Quality

Example: Water Sector



Concrete Canal



Natural Canal



Example: Agricultural Sector



Monocultural intensive farming



Buffer strips



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Example: Urban Development



Elevated Green Area



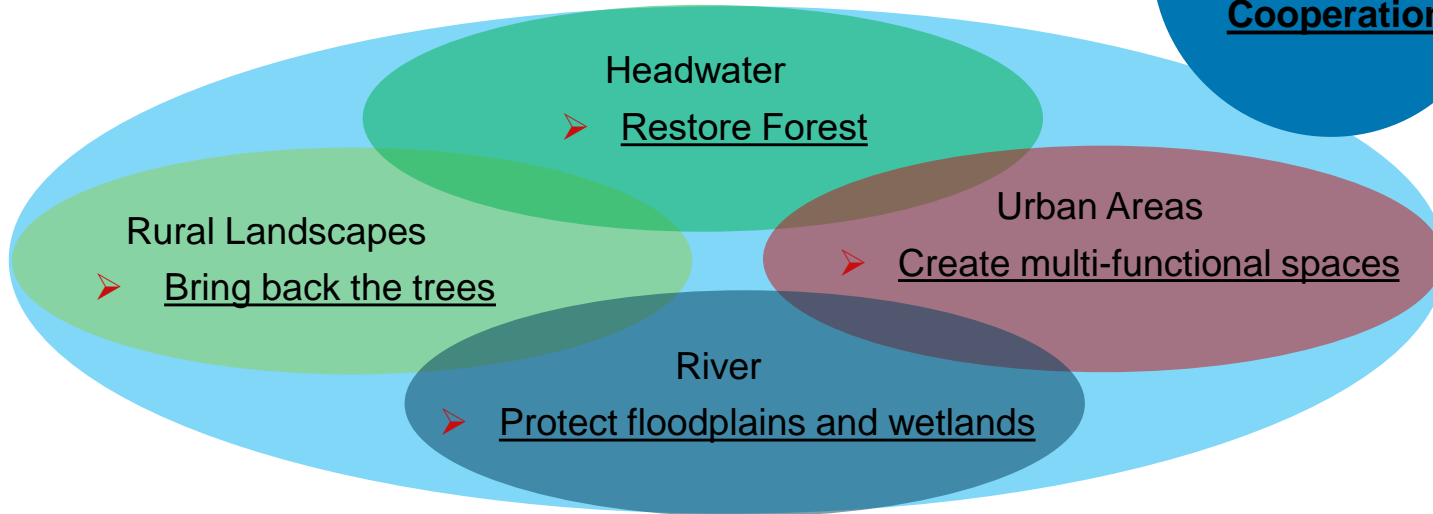
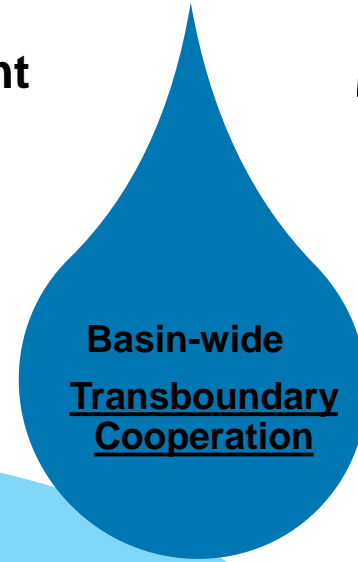
Deepened Green Area



Shift towards Ecosystem-based Water Management



- Mainstream Nature-based Solutions across sectors
- Retain or infiltrate every raindrop where it occurs
- Create a network of Nature-based Solutions
- Think Nature-based Solutions first



Thank you



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