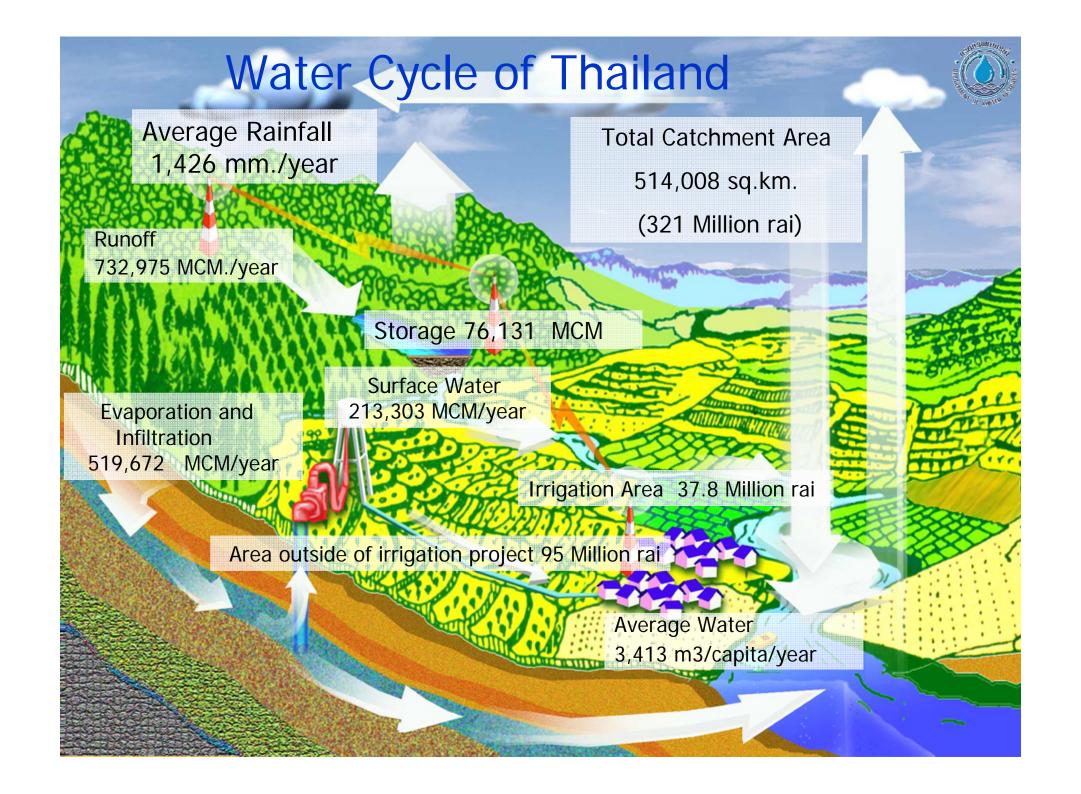


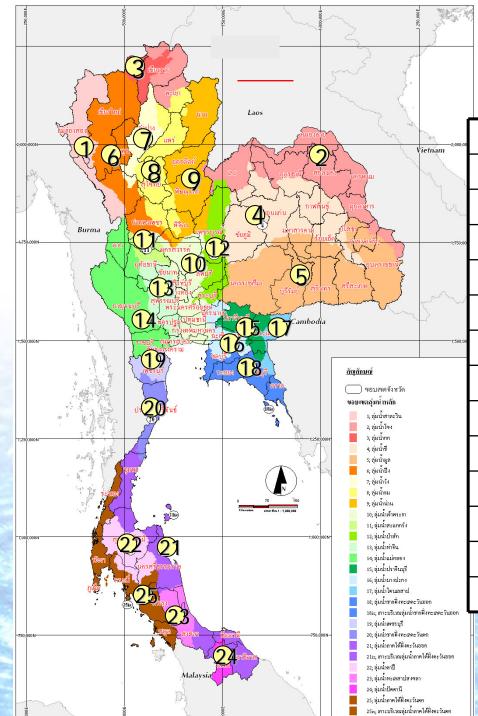




- Water Resources and Wetland
- Problem and Cause of Degradation
- National Policy and Plan
- Key Factors for Achievement in Thailand
- Conclusion and Recommendation

PIPAT BUANGNG





Mainstream of each main basin

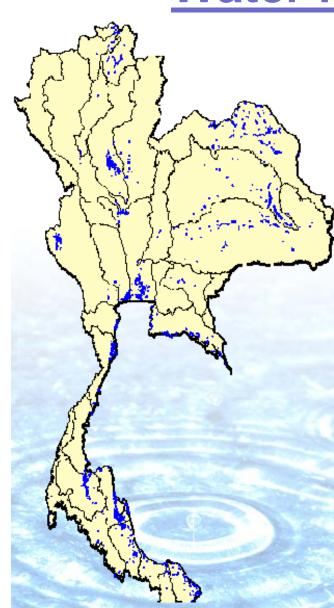


Total length of mainstream 87,200 km.

000;00	25 Main Basins	
7	1.Salawin	14.Mae Klong
<u></u>	2.Mae Khong	15.Prachin
750;00	3.Kok	16.Bangpakong
	4.Chi	17.Tonle Sap
w	5.Mun	18.East Coast
500;00	6.Ping	19.Phetchaburi
	7.Wang	20.West Coast
	8.Yom	21.South East Coast
	9.Nan	22.Ta Pi
	10.Chaopraya	23.Songkhla Lake
	11.Sakaekrang	24.Pattani
	12.Pasak	25.South West COast
m .	13.Thachin	
, iii		

Water Resources and Wetland





River Basin

Country total area 514,000 sq.km.

Major river basin 25

Sub basin 254

Tributary of sub basin 5,000

Wetland

International 61

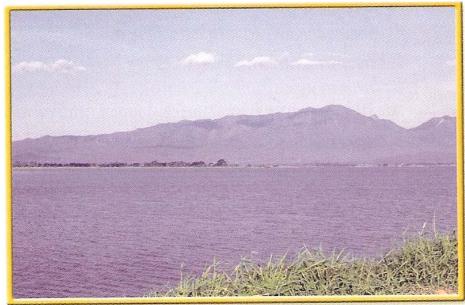
National 208

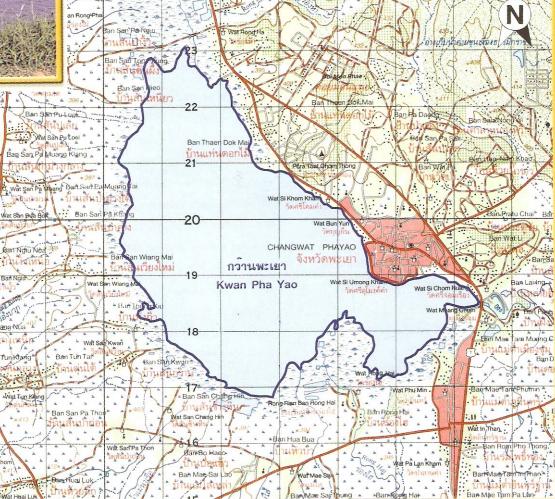
Local 42,384

Wetland covers 36,620 sq.km.

(7.5% of total land area)

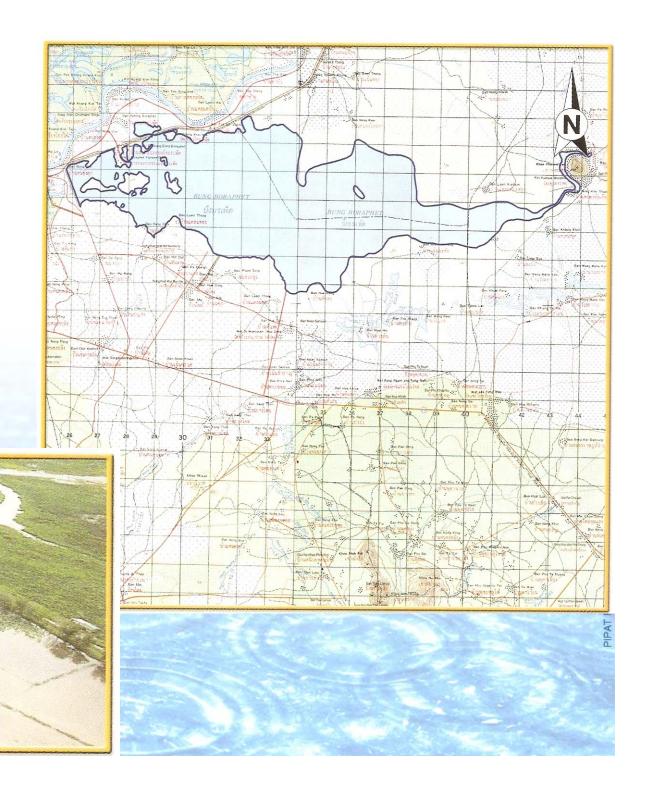
PIPAT BUANGNGAM





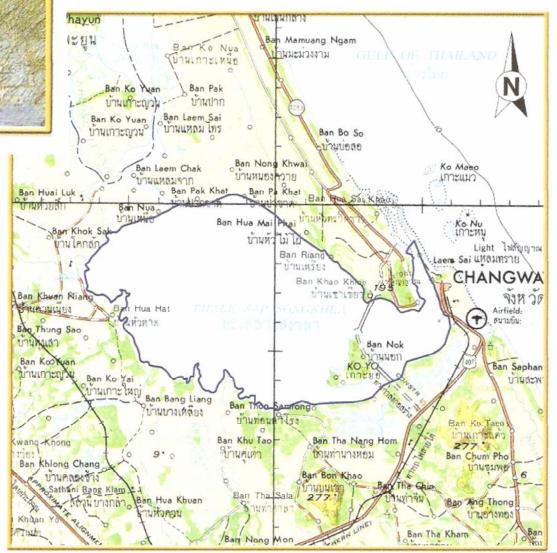


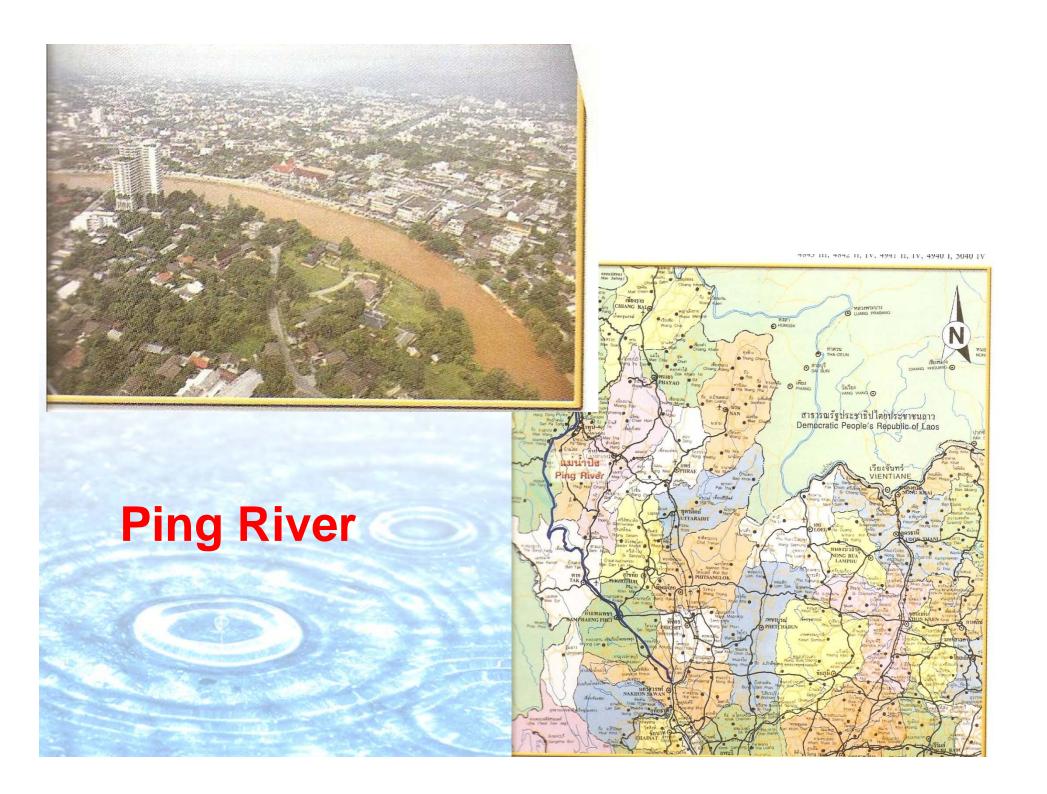
Bung Boraphet

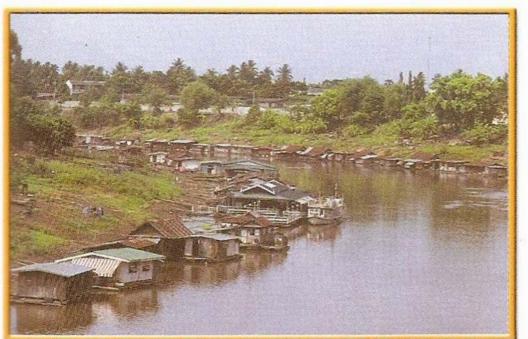












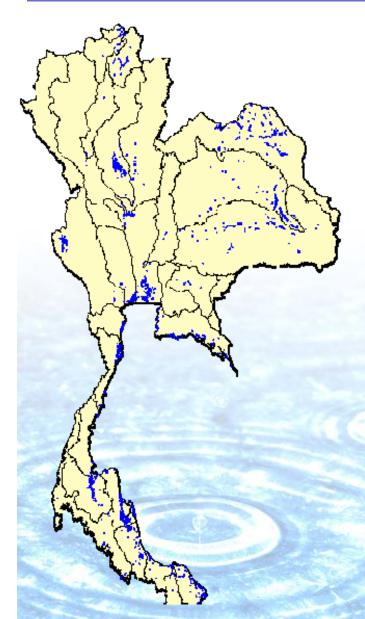
III, 5144 IV, 5145 I, III, 5146 I, II, 5147 I, II, 5148 II

สาธารณรัฐประชาธิปไตยประชาชนลาว Democratic People's Republic of Laos เวียงจันทร์ VIENTIANE

Nan River

The Importance of natural water sources/wetland





- Support biodiversity
- Retain and retard water for the purpose of flood and drought mitigation
- Support economic activities e.g. fishery, forestry around the area
- Use for navigation
- Use for recreation

Problem and Cause of Degradation

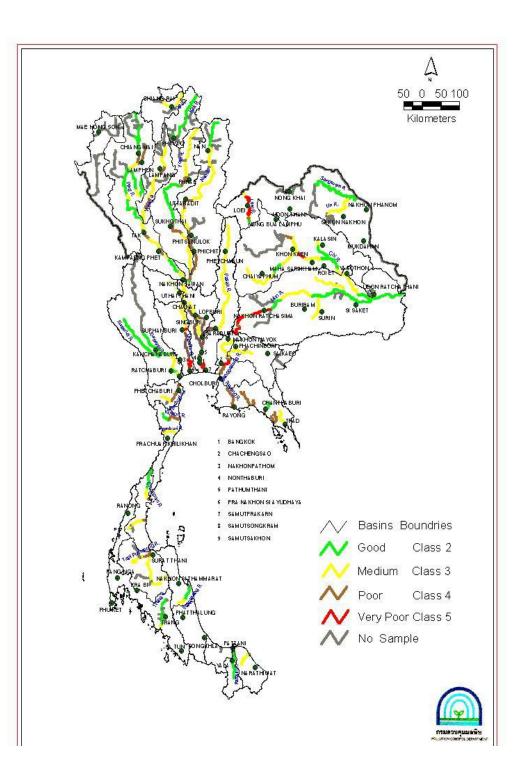
Problem

- Encroaching and constructing that obstruct the water way
- Contaminating of waste water and solid waste
- Shallows due to silting and weed

Cause

- Increasing of population and consequently social and economic development leads to demand for more use of water sources/wetland
- Inefficient use and lack of good management
- Lack of information, knowledge, and participation in managing and developing
- Natural disaster e.g. flood, land slide, drought

 State of Surface Water Quality in Thailand in 2006





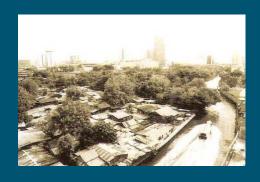
National Policy on Water Resources Restoration

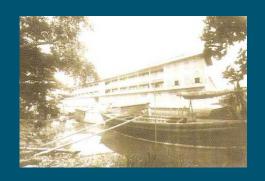
- 1. Determine guideline and control riparian land use
- 2. Reserve natural environment, cultural heritage, and traditional community's live
- 3. Determine and control direction of nearby community expansion
- 4. Rehabilitate water quality
- 5. Promote an appropriate use of water source/wetland
- 6. Promote knowledge, awareness, and understanding of concerned stakeholders to participate in water source/wetland management
- 7. Improve law and its enforcement

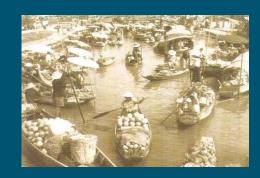
Measures for problem solving

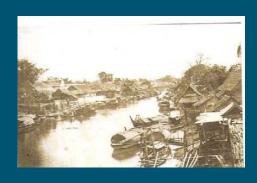
- Measures for reducing of upstream soil erosion e.g. rehabilitation of upper watershed, construction of check dam
- Solving of encroaching problem by surveying to determine boundary, and fencing
- Rehabilitation of natural water sources/wetland
- Solving of water pollution and solid waste
- Preventing of river bank erosion

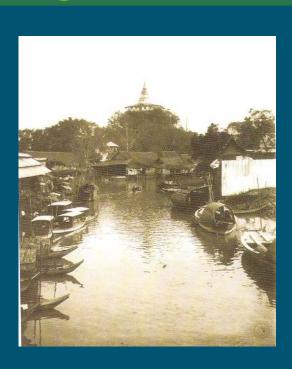
Before: Canals in Bangkok

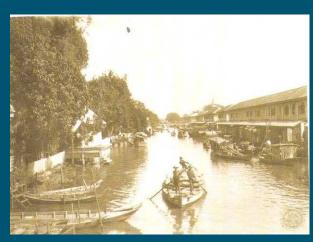


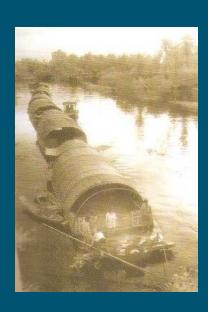




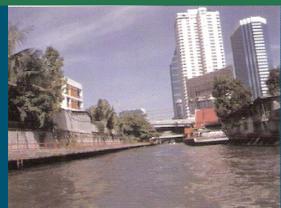




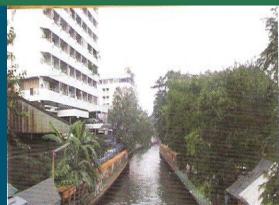




After Restoration













Stakeholders participated in project implementation







Participation in Water Quality Monitoring









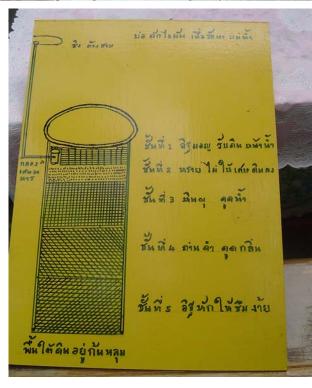
Contributing Fund to Support Activities Related to the Water Pollution Management



Using Local Wisdom to Treat Domestic Wastewater Before Discharging

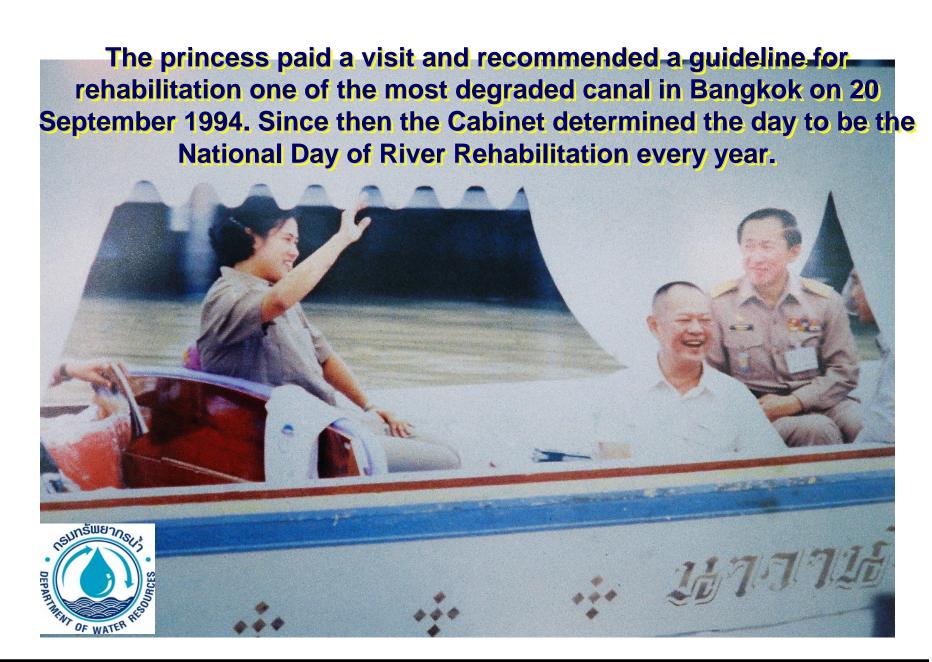






Key Factors for Achievement in Thailand

- The princess paid a visit and recommended a guideline for rehabilitation one of the most degraded canal in Bangkok on 20 September 1994. Since then the Cabinet determined the day to be the National Day of River Rehabilitation every year.
- Structure of the National Water Resources
 Committee and the River Basin Committee
- The National Water Agenda of 21 May 2007
- Association of Thai culture with water e.g. Loy
 Krathong festival (floating lantern), Songkran festival (throwing water), traditional boat racing, and Royal Barge Procession





Organizational Structure for National Water Resources Management Cabinet Committee set up by National Water Resources Committee **Cabinet Resolution** Dept. of Ministry of Natural Resources and River Basin Sub Ministry of National **Environment** Committee Disaster & Agriculture and Mitigation Cooperation Meteorologic al Dept. Provincial WG/ **DGR DWR RID DNP** Sub Basin FD Land Development **DMCR** Dept. **DMR DWR** Regional **Army Center RID** Regional Office 1-10 PCD Dept. of industrial Office 1-17 1-10 **DEOP** Factory MWWA./ **PWWA** District WG **NRE Provincial Office EGAT Irrigation Project** Agriculture Technology Marine Dept. **Transfer Center** Sub District DAO/LAO. WG Legend Supreme General Headquarter Supervision Coordination etc



Songkran Festival in Bangkok (Main Chao Phraya and Chiang Mai in the North of Thailand (Ping River Basin).





Loy Krathong Festival



The Royal Ceremony





The Grand Palace in Bangkok is located at the bank of the Chao Phraya River

Conclusion and recommendation

- Degradation of natural water sources and wetland have made Thailand paying more attention to restore them.
- Some of the degraded wetlands have been restored with participatory process.
- Royal family and the Government are interested and give priority to conservation of natural water sources and wetland.
- From now on packages of measure for water sources restoration including strategy and guidelines must be coherently implemented to ensure efficient solutions.
- International network will be a good way of catalyzing the process of natural water sources and wetland restoration in Thailand.

