

Challenges to Water Environmental Management in Vietnam

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CONTENT

 Overview of water pollution

 Challenges



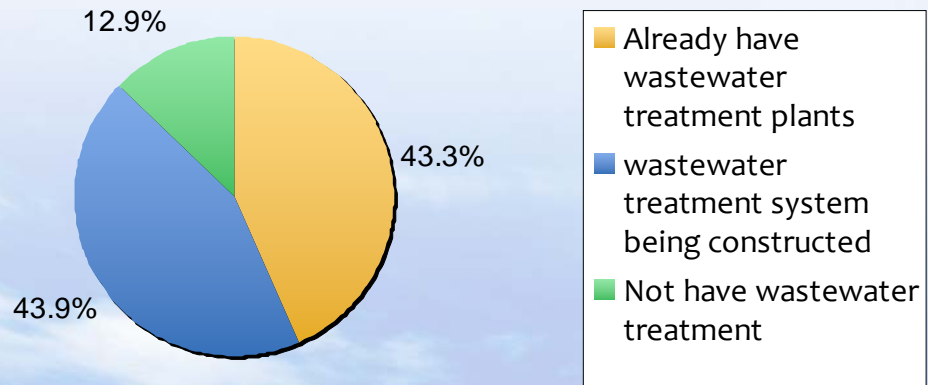
OVERVIEW OF WATER POLLUTION

- Domestic wastewater
 - 90% of domestic wastewater not treated
 - Wastewater treatment plants in some big cities (e.g Ho Chi Minh city, Ha Noi, Da Nang...) but their capacities only meet about 30% of the demand
 - Major pollutants: BOD, N-NH_4^+ , coliform

OVERVIEW OF WATER POLLUTION

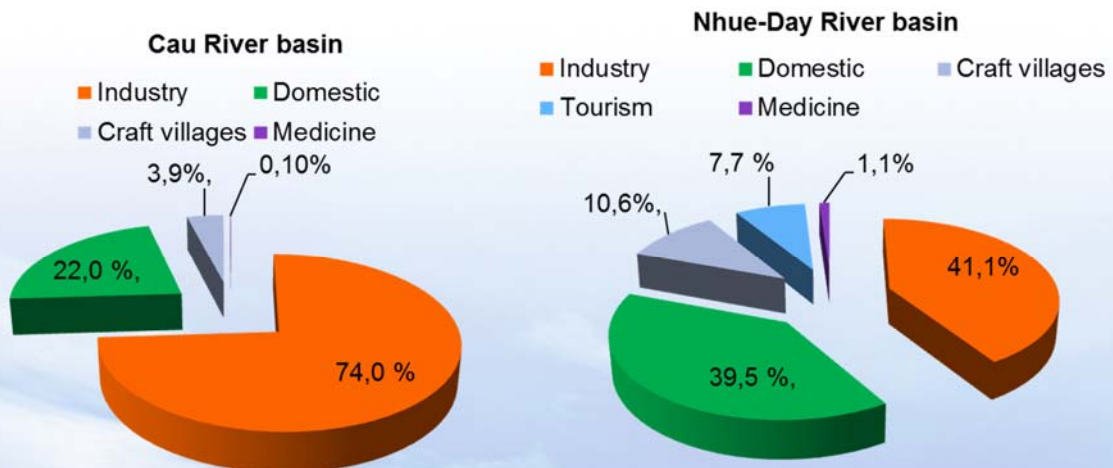
Industrial wastewater

- 223 industrial zones
- Total wastewater discharge: ~ 1,000,000 m³/day
- Current status:



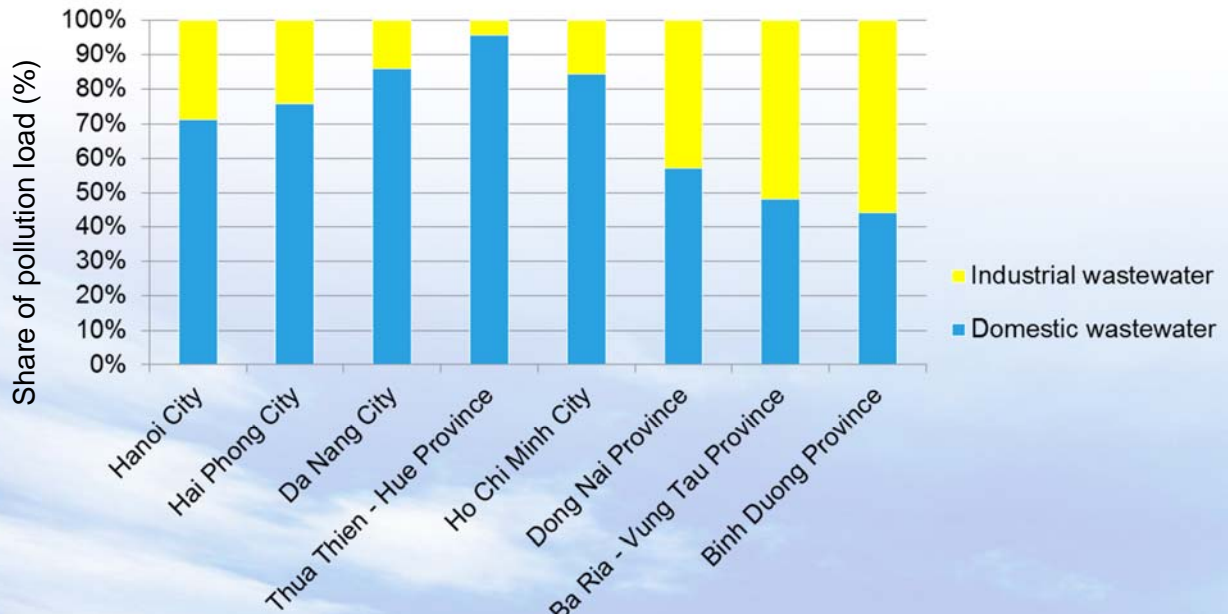
OVERVIEW OF WATER POLLUTION

- Main pollution sources: industrial and domestic wastewater



OVERVIEW OF WATER POLLUTION

BOD discharge into surface water: Share of industrial and domestic



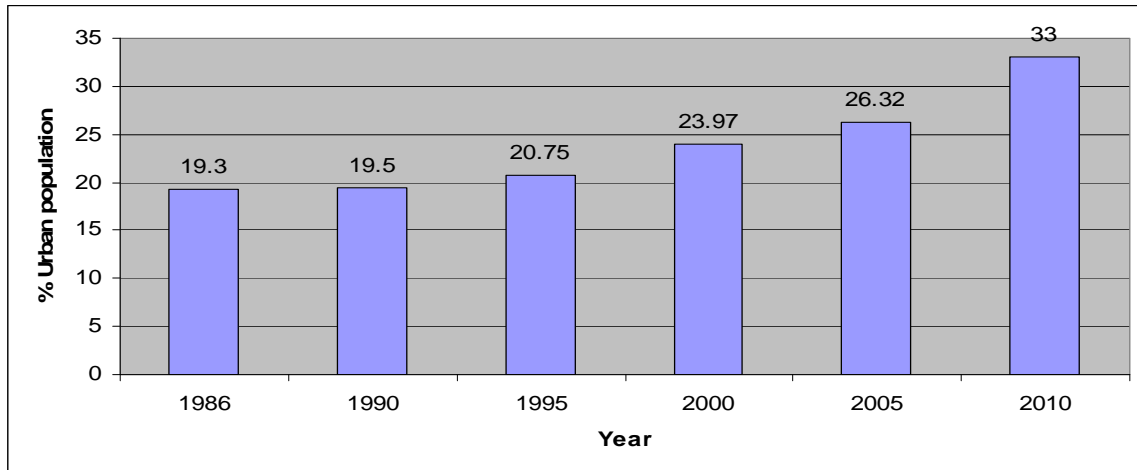
* JICA, Vol5 - Industrial water management 2010

CHALLENGES

- Population growth: 1,4%/year
- Rapid urbanisation: 5%/year
- But, limited awareness on water environmental issues



Urban population trend 1986-2010



Challenges

- Limited management capacity:
 - Limited human and financial resources
 - Weak monitoring and enforcement
- Lack of commitment from industry
- Lack of community participation

