













MRC

INTEGRATED WATERBORNE TRANSPORT PLANNING ON THE MEKONG RIVER SYSTEM IN CAMBODIA



28th-29th November 2005 Chiang Rai

CONTENTS

1. Introduction: Rationale of the Project within the context of this Forum

2. Integrated Planning of Waterborne Transport in Cambodia

3. Conclusions

Rationale of this Forum:

Obtaining ideas for how IWRM principles can be applied at basin scale through ...

- Meeting the development needs
- Strengthening Cooperation
- Maintaining the ecological balance
- Building capacity

Project: Design of the Master Plan for Waterborne Transportation on the Mekong River System in Cambodia



Introduction: Rationale of the Project within the context of this Forum





Belgische Technische Coöperatie nv Coopération Technique Belge sa



PROJECT

Cambodia National Mekong Committee





Introduction: Rationale of the Project within the context of this Forum



The project is to (Design a Master Plan that will) rehabilitate and improve the rural, domestic and international transport network using the Mekong River system in Cambodia.



The Integrated Plan will be designed, containing an efficient development programme with a short, medium and long term action plan in order to plan, monitor and implement inland waterway transport and maritime navigation.

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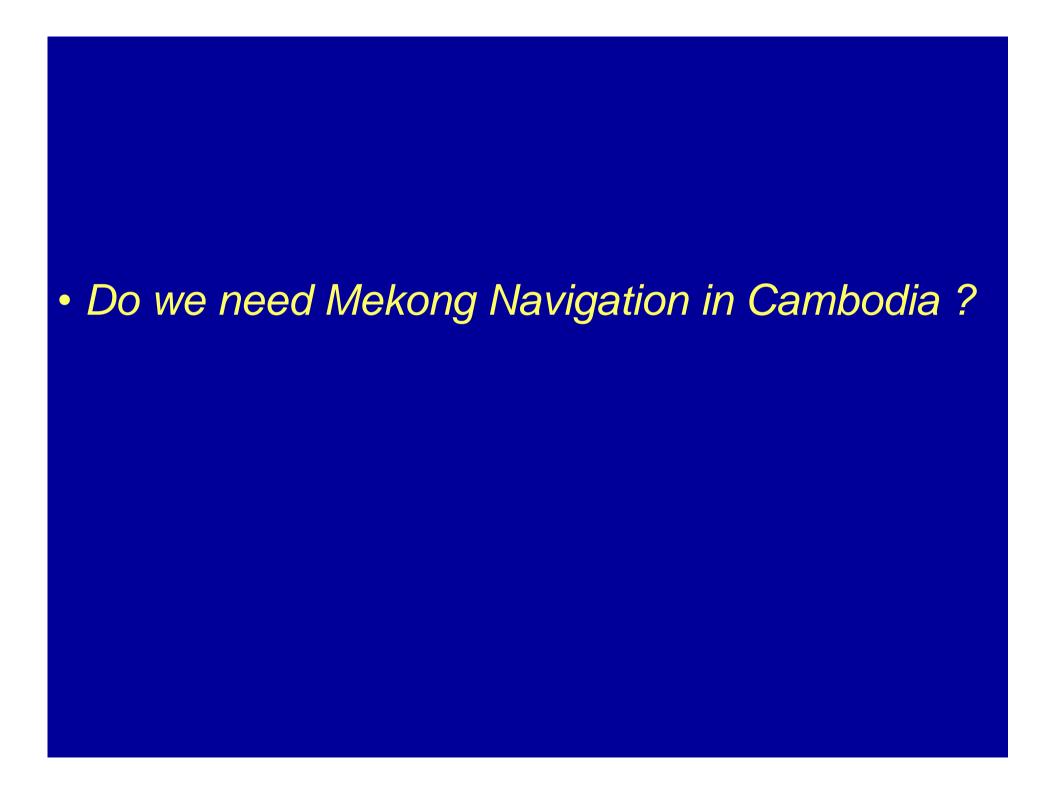
1. Introduction: Rationale of the Project within the context of this Forum

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Important questions the project team needs to answer during the design:

- Do we need Mekong Navigation in Cambodia ?
- What may happen if there is no navigation development or coordination ?
- And how do we ensure all aspects are taken into consideration, in a balanced way, and in close cooperation with the other Mekong countries?

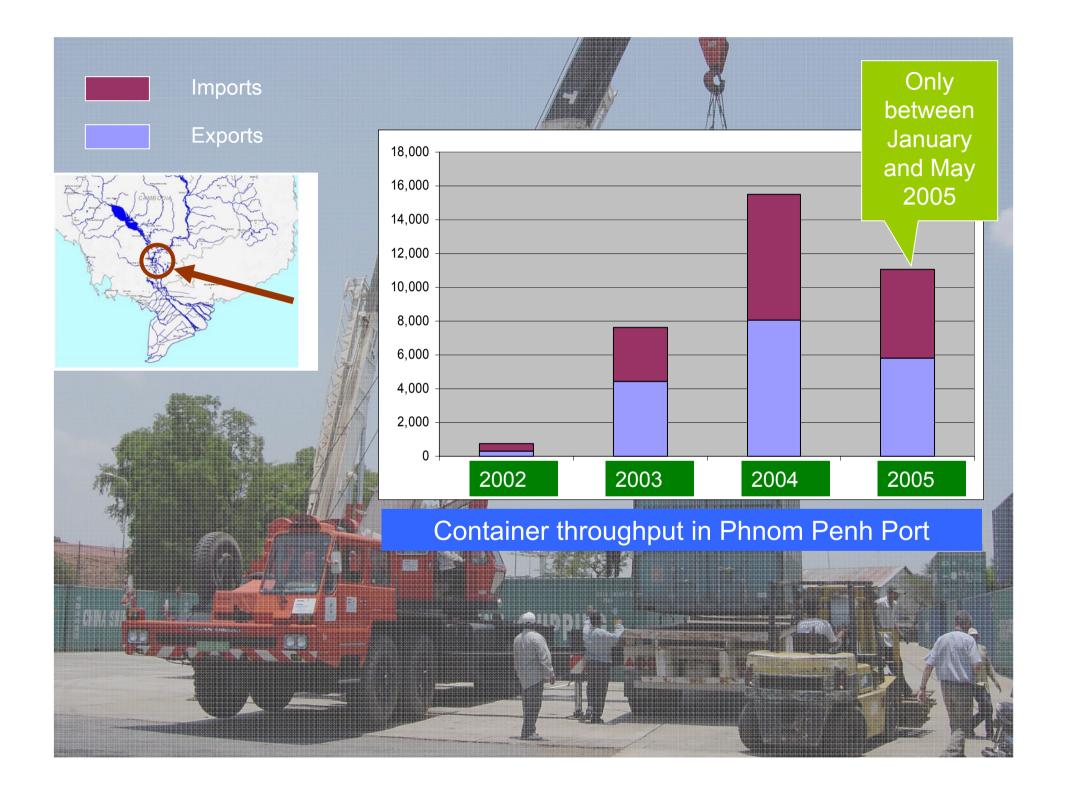


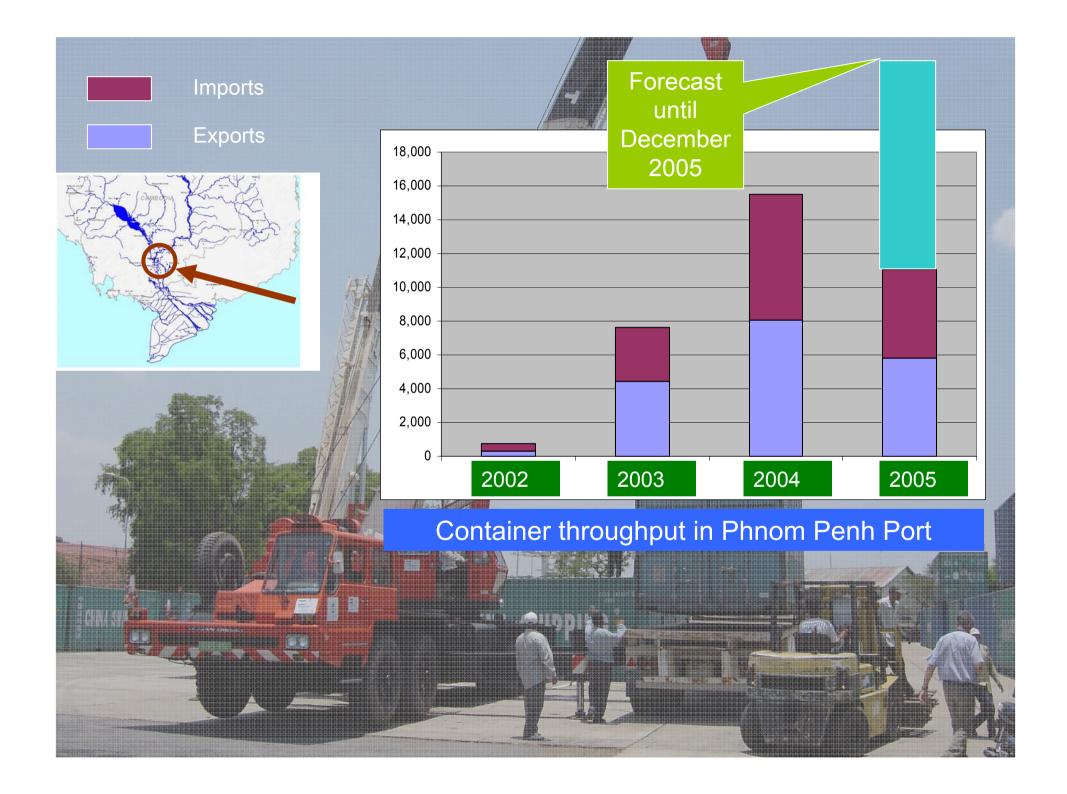
Cambodia has no alternative but to reduce the transport costs, especially for garment exports

... in particular in their overseas trade –

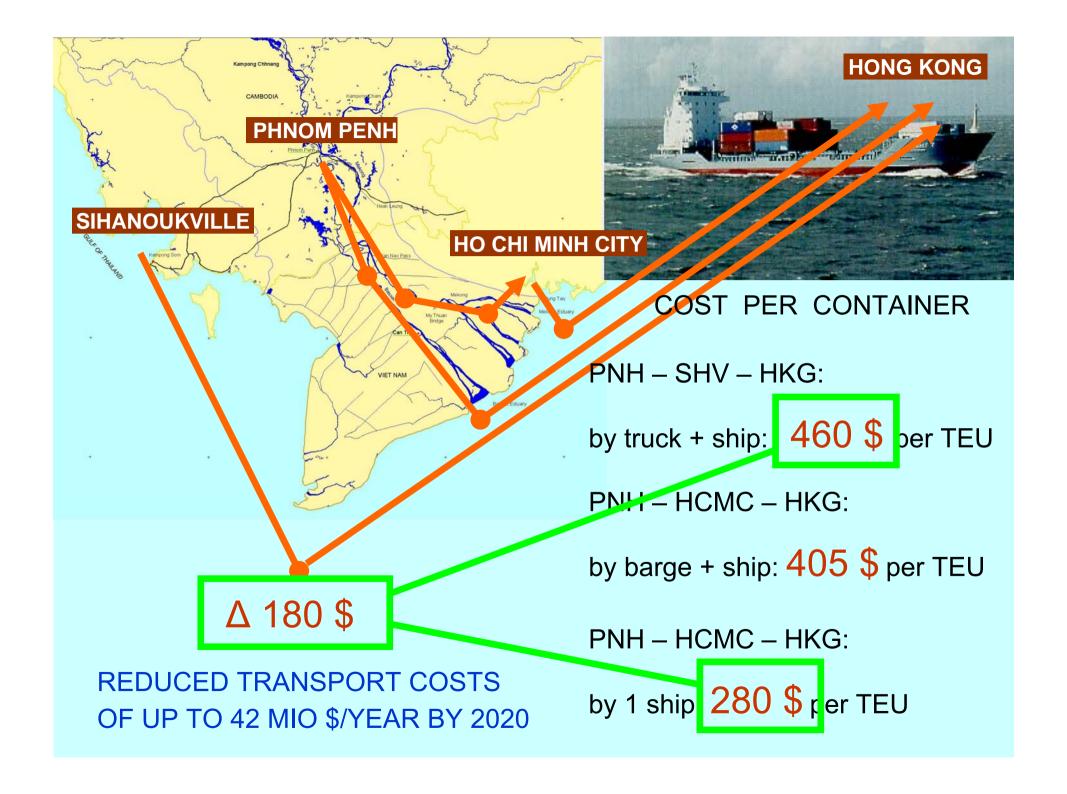
this is where the regional aspects come in

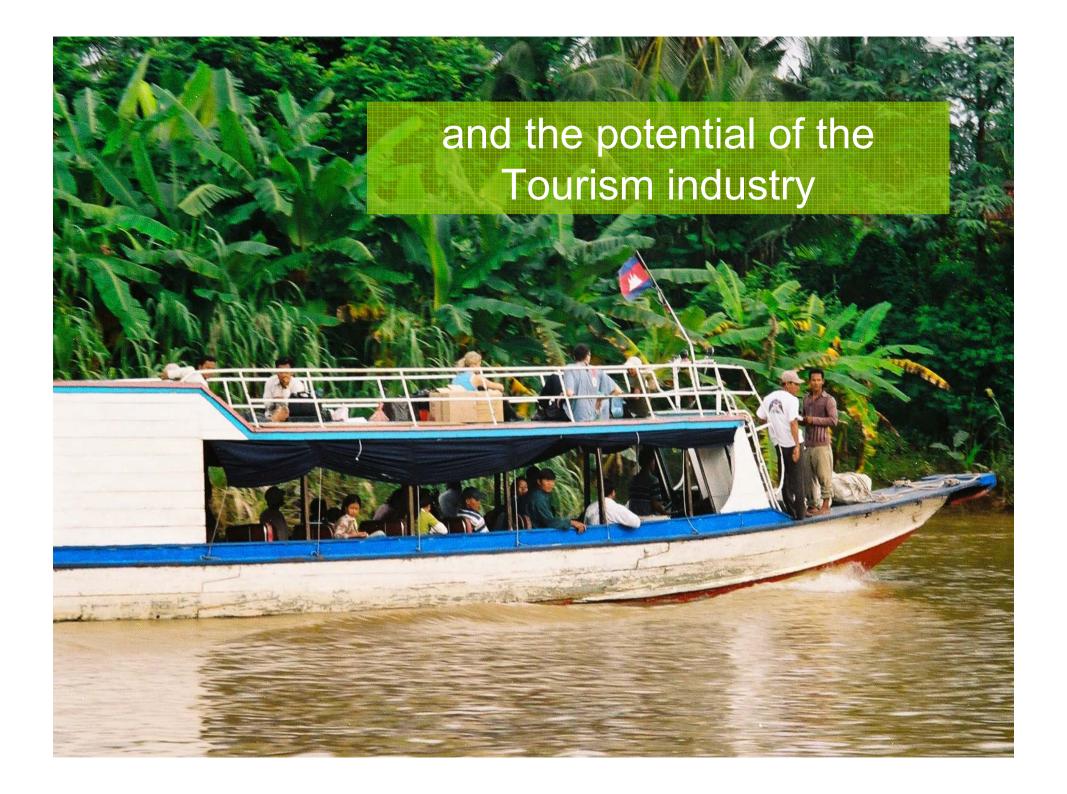




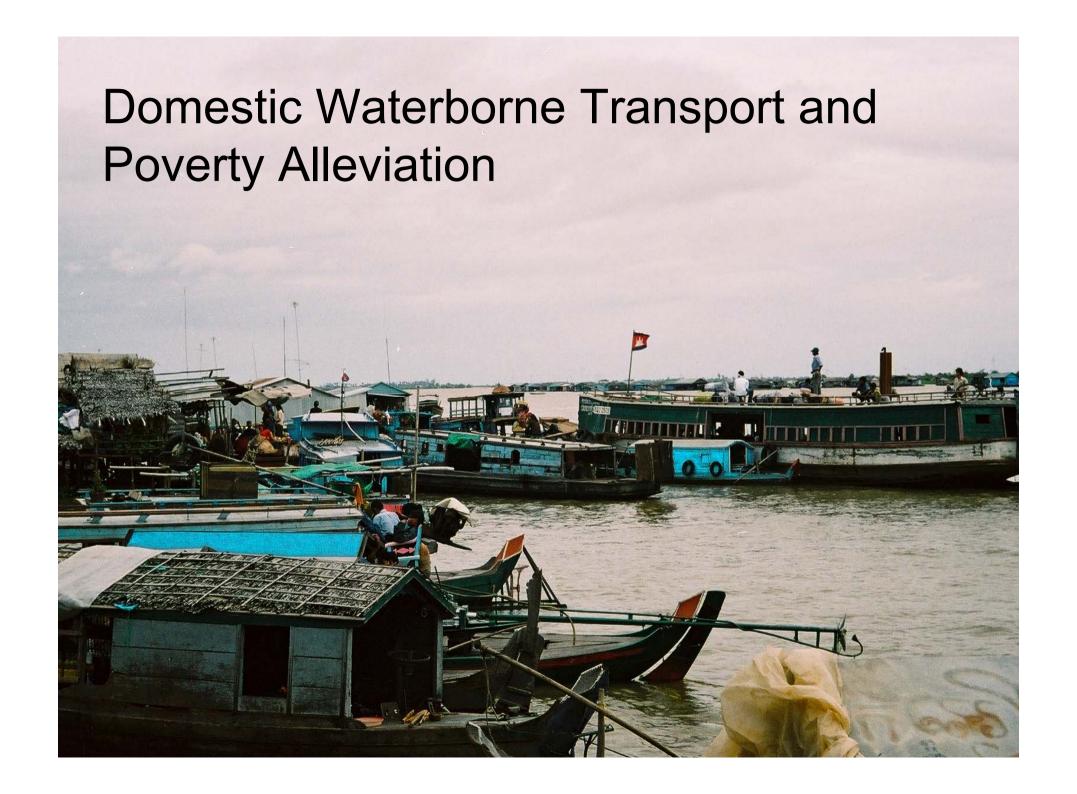




















• What may happen if there is no navigation development or coordination?



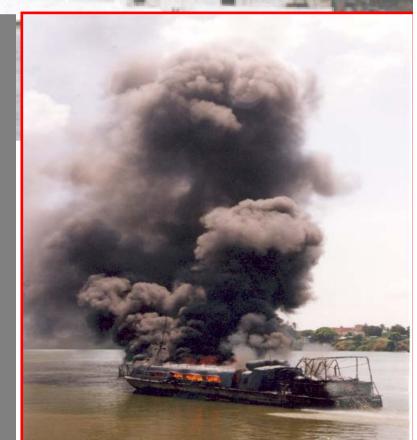
Currently there are:

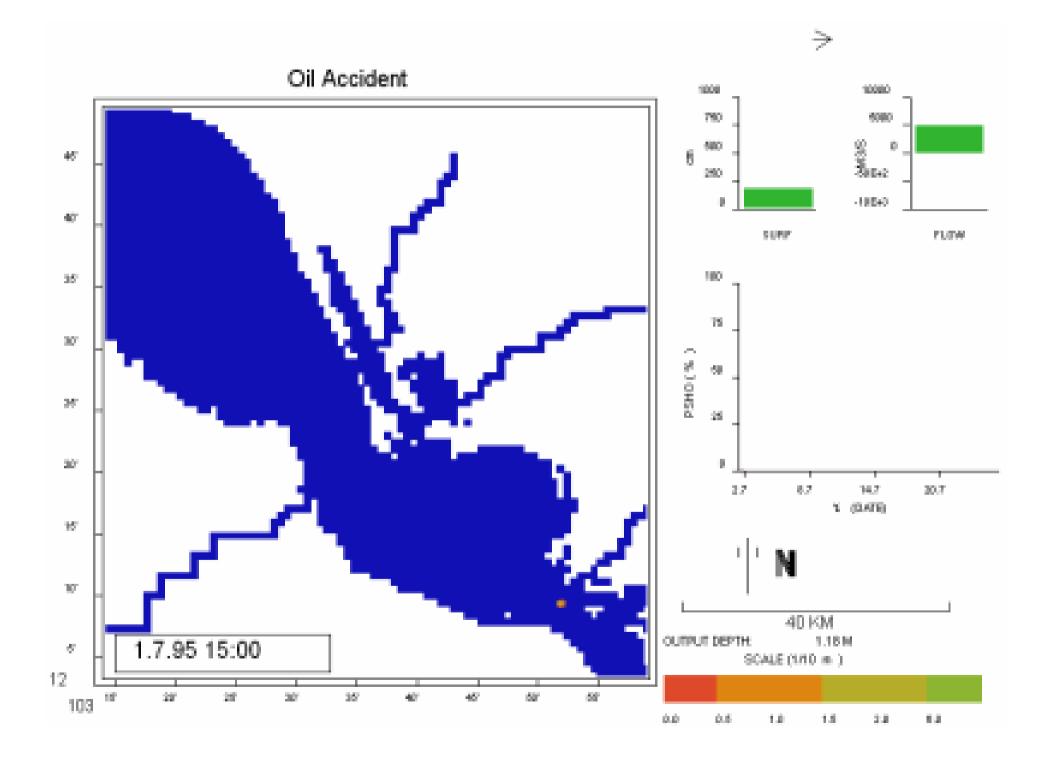
no "rules of the road"

no regulations for carriage of dangerous goods – no proper facilities

no contingency plans
no means to combat oil pollution
no insurance requirements

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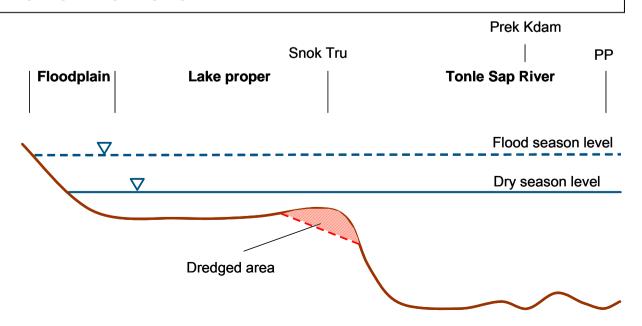




The Ministry of Public Works and Transport in Cambodia asked the team to study the feasibility and impacts of dredging a navigation channel in the Tonle Sap Lake

Dredging of Snok Tru will not empty the Tonle Sap Lake

- Water level of Tonle Sap Lake is controlled by the Water Level in Mekong
- During the dry season, WL in Phnom Penh is controlled by upstream discharge and sea level
- → Dredging of Snoc Trou will not have an impact on the TSL water levels



Age ('1C yrs BP) ◆ Core S2/C1 (this study) Core TS96-1 (Tsukawaki et al. 1997) Core TS96-2 (Tsukawaki et al. 1997) × Core 11 (Carbonnel, 1972) Depth (cm)

Net sedimentation in 1997 sedimentation (g/m2) 933 800 666 533 400 266 133 0

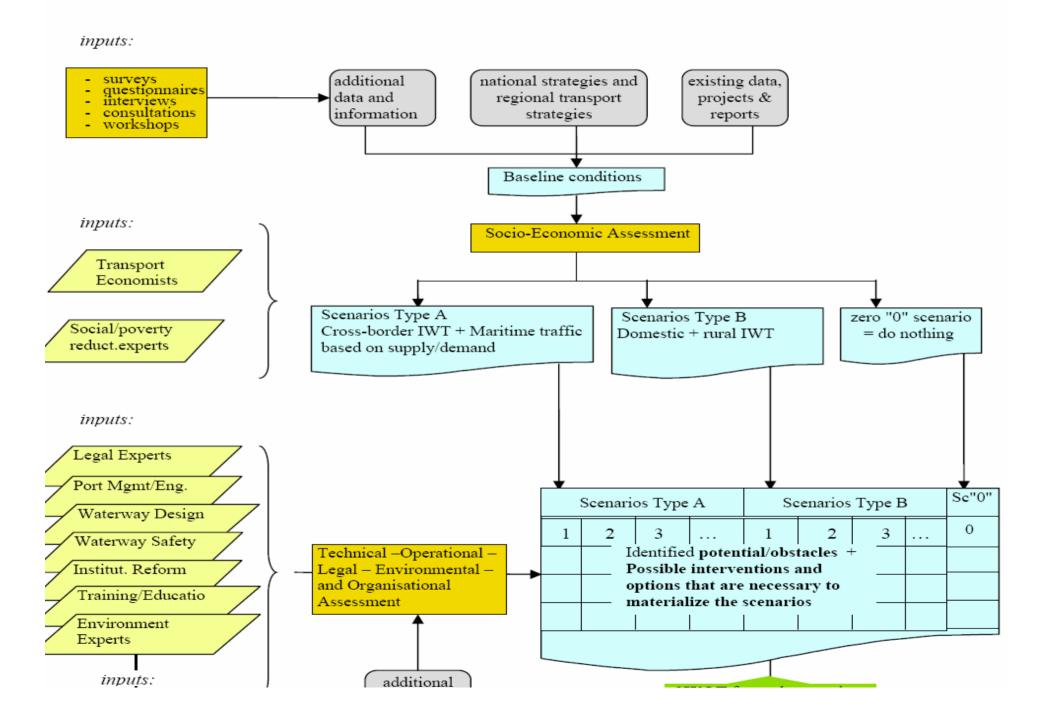
Tonle Sap is NOT silting up with sediment

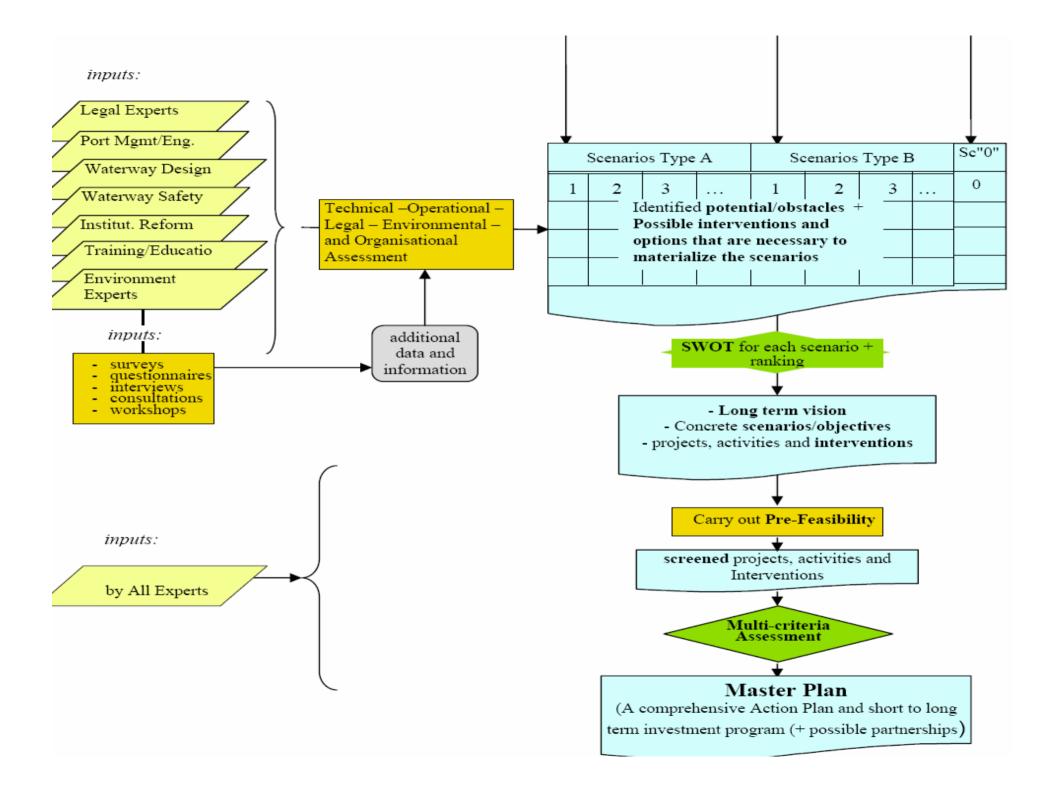
Latest studies show that sedimentation in lake is 0.1 mm / year (Tsukawaki et al., 1997 & Penny et al., 2005)

Supported by modelling → sediment trapped by floodplain vegetation (WUP-FIN, 2003)

• And how do we ensure all aspects are taken into consideration, in a balanced way, and in close cooperation with the other Mekong countries?

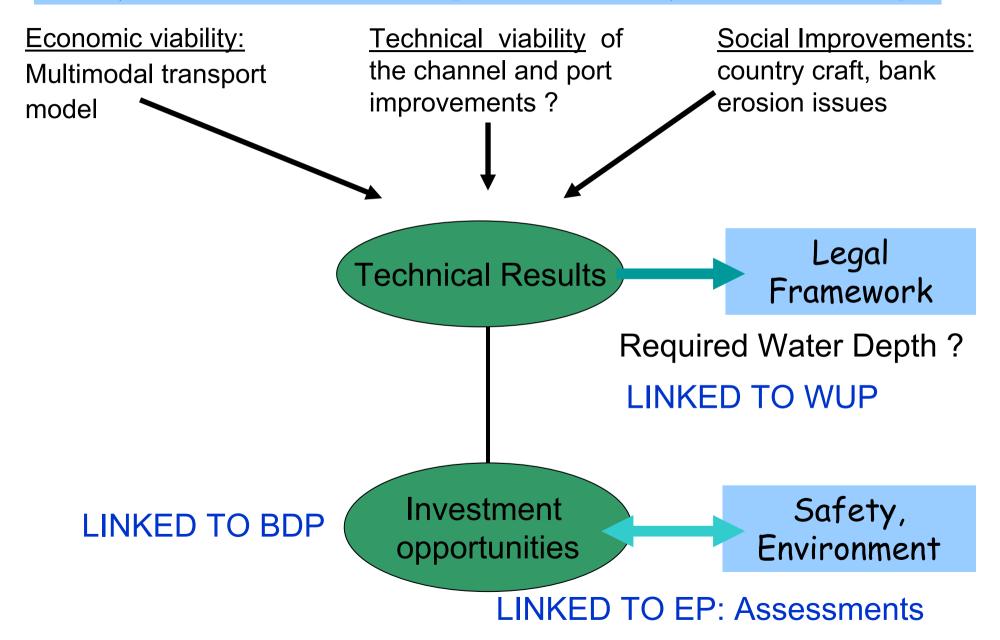
FLOWCHART FOR DESIGN OF THE MEKONG NAVIGATION MASTER PLAN



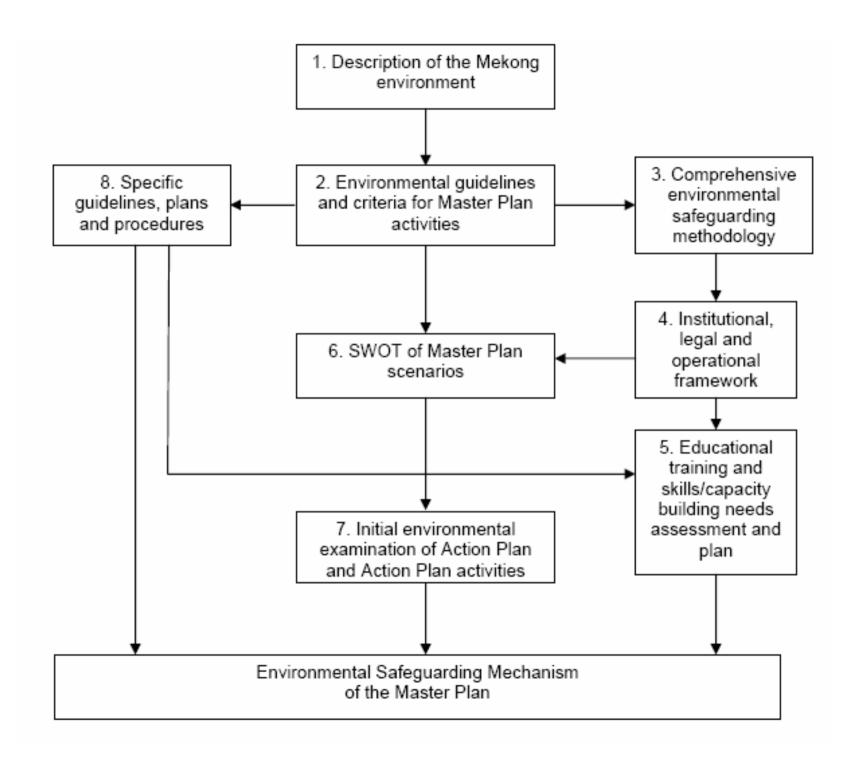


FLOWCHART FOR DESIGN OF THE MEKONG NAVIGATION MASTER PLAN inputs: - surveys - questionnaires - interviews - consultations additional national strategies and existing data, data and regional transport projects & information strategies reports - workshops Baseline conditions inputs: Socio-Economic Assessment Workshop Transport Economists Scenarios Type A Cross-border IWT + Maritime traffic Scenarios Type B zero "0" scenario Social/poverty Domestic + rural IWT = do nothing reduct.experts based on supply/demand inputs: Legal Experts Port Mgmt/Eng. Se"0' Scenarios Type A Scenarios Type B Waterway Design 0 Waterway Safety Identified potential/obstacles Technical -Operational -Legal – Environmental -Possible interventions and Institut. Reform options that are necessary to and Organisational Training/Educatio Assessment materialize the scenarios Environment Experts inputs: additional SWOT for each scenario + data and - surveys - questionnaires - interviews - consultations - workshops ranking information Workshop - Long term vision - Concrete scenarios/objectives - projects, activities and interventions Carry out Pre-Feasibility inputs: screened projects, activities and Interventions by All Experts Workshop Multi-criteria Assessment Master Plan (A comprehensive Action Plan and short to long term investment program (+ possible partnerships) Workshop

Cooperation with MRC Programmes: Analysis and Planning







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Inland waterway transport is a historical feature in the Mekong Basin, with proven diverse and far-reaching social and economic benefits

Coordination is essential to control the navigation system and make it a safe and regulated mode of transport

Public/private participation is much more than just a "cosmetic" chapter in the project design process

Regional cooperation between the Mekong member states through MRC, ASEAN, WB, ADB and international NGOs – but efficient coordination is still very difficult – who is actually the coordinator?

Report: "Incorporation of Navigation into the Integrated Water Resources Management Strategy (IWRM)"—MRC Navigation Programme, January 2005



















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