

VIET NAM NATIONAL MEKONG COMMITTE

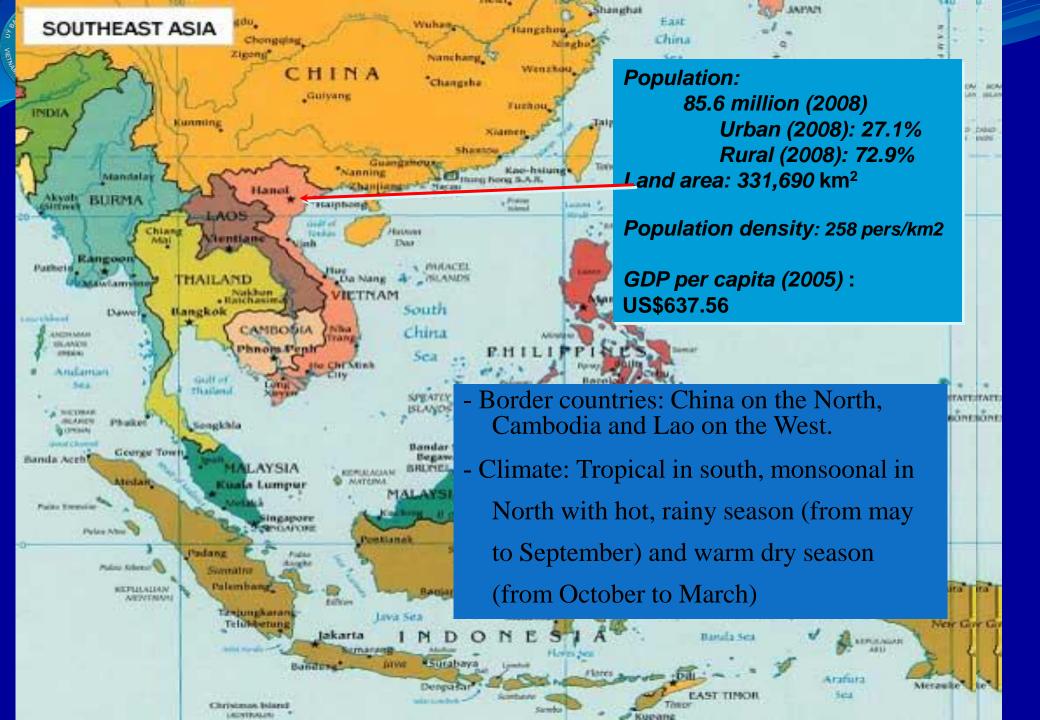
People Centered Approach in Flood and Land Management in the Mekong Basin Luang Phrabang, 23-25 Feb 2011

OUTLOOK CONCERNING THE C5 —APPROACH-POTENTIAL IN IN VIETNAM



CONTENT

- 1 Introduction
- 2 C5 approach
- 3 Potential application





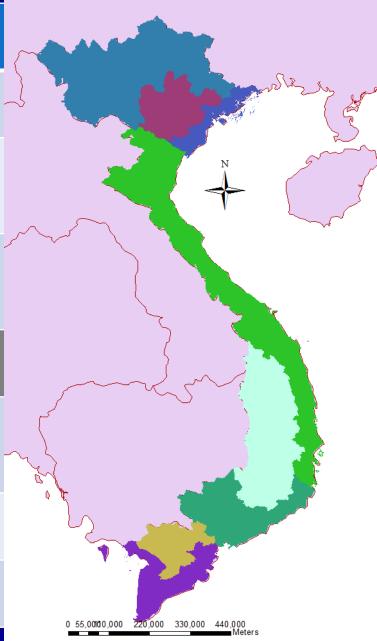
Water Resources in Vietnam

- Average annual rainfall: 1,600 -2,000 mm
- Total annual water volume: 830-840 km³ (> 60% from neighbor countries)
- River systems: 2360 rivers with length > 10 Km,
- 14 main river basins with catchments area more than 10,000 Sq. Km.
- Two seasons: Wet/rainy: from April to October; dry season: from November to March.



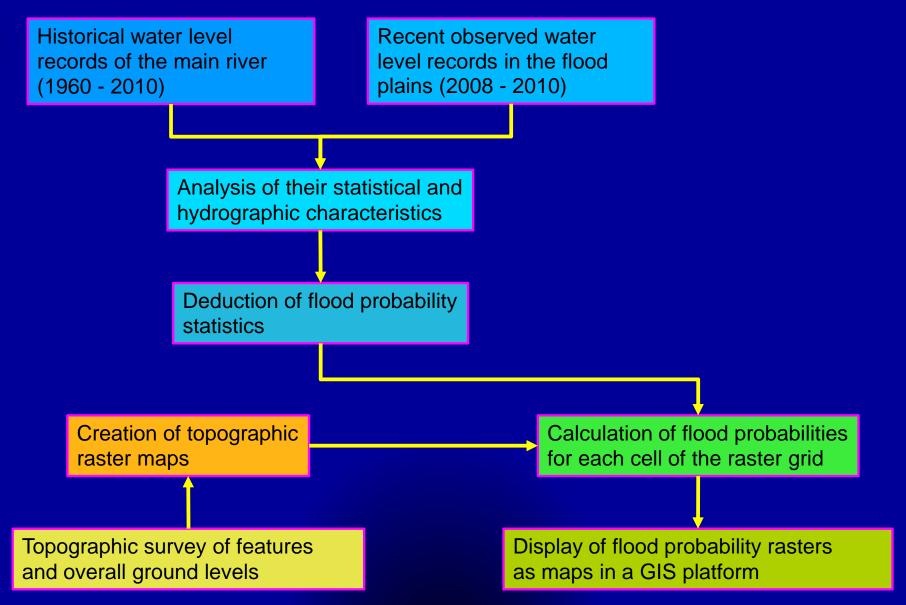
Map of Hazard Zones in Vietnam

* S S S S S S S S S S S S S S S S S S S		
Red river delta and Midland of Northern VN	Flood, storm/typhoon, whirlwind	
Coastal area of the Northern VN	Storm surge, storm/typhoon, flood, whirlwind	
Mountain area of the Northern VN	Flash flood, flood, landslide, whirlwind	
Coastal area of the Central VN	Storm/typhoon, flood, storm surge, flash flood, whirlwind, salinity intrusion, drought	
Central High lands	Flash flood, drought, whirlwind, forest fire	
East of the Sourthen VN	Storm/typhoon, flood, flash flood, whirlwind, salinity intrusion, drought	
Coastal area of Cuu Long Delta	Storm/typhoon, flood, whirlwind, salinity intrusion	
Flood area of the Cuu Long delta	Flood, whirlwind	0 55,0000,000 220,000 330,000





C5—APPROACH IN LAND MANAGEMENT

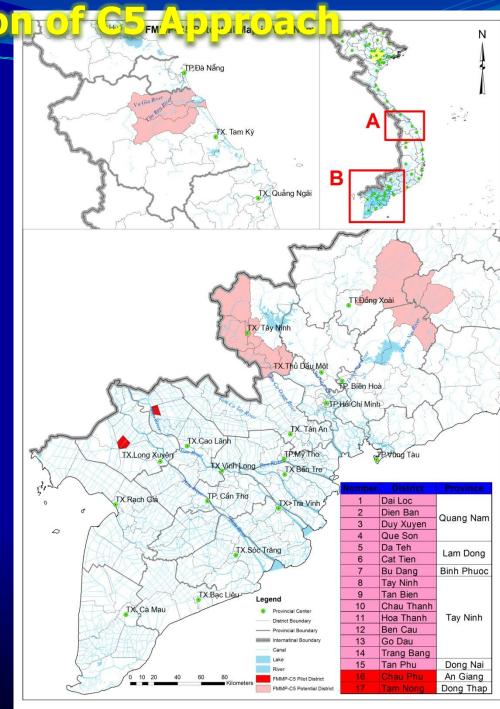




Potential application of Gomesian application of Gomes

Preconditions for the Pilot-area, located in flood plains, to be chosen:

- 1. Topographic DEM established
- 2. Flood marks established
- 3. Flood Plain is connected to the Mekong main course supplied with an adjacent Hydro-Station
- 4. Flood history (hydrographic data) is available for the pilot district area
- 5. The pilot districts are land management-registered & land use planning is initiated (optional)





Potential application of C5 Approach

District	District area [km²]	Flood hazard area [km²]		C5-Approach implementati on costs [US\$]	Patential	Absolute potential avoided loss [US\$]	Ratio ''damage costs/inp ut costs''	ratio ''damage costs/C5 costs''
Tan Bien	853	41	85,630	41,500	1,052,205	1,010,705	2535%	25.4
Trang Bang	340	48	151,568	41,500	1,998,769	1,957,269	4816%	48.2
Chau Phu	451							
Tam Nong	474	344	99,646	78,500	9,609,000	9,530,500	12241%	122.4

