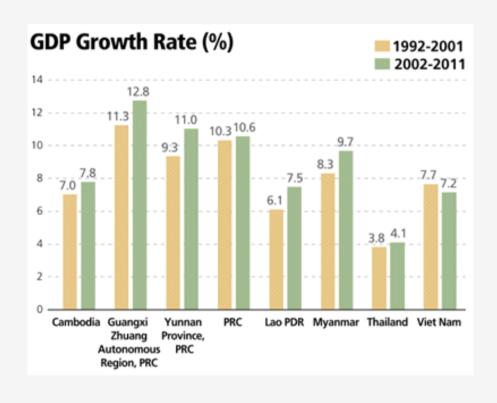


Outline:

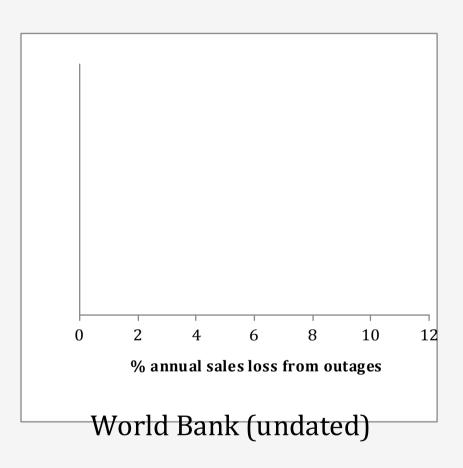
Mekong hydropower boom & the need for better assessment

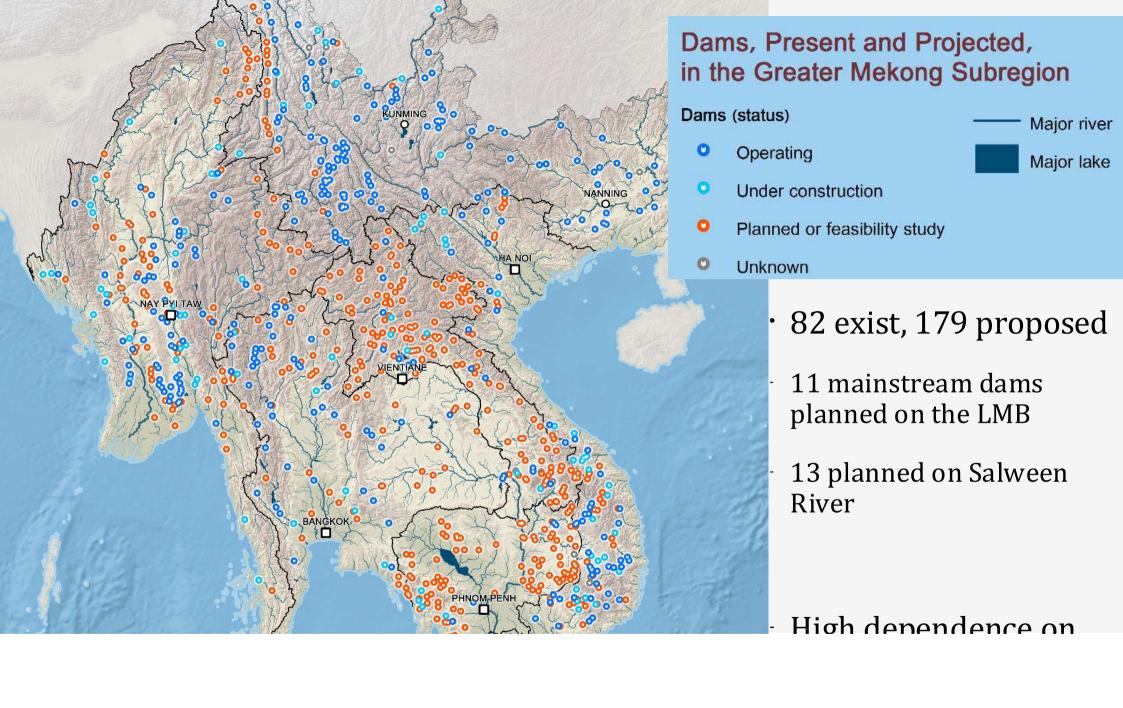
Indirect/unforeseen environmental impacts from my research

Southeast Asia's Need for Power:



ADB (2012)





Current Environmental Assessment:

- · EIAs are principal instrument used to predict environmental impacts
- · Requirements differ depending on country, donor and scale/location
- EIAs are project specific and often occur towards the end of the planning process

<u>Issues:</u>

- Inadequate baselines
- Perception as stalling the process
- Timing (often not done until after construction has started)

"EIAs are a potentially crucial step in projectlevel decision-making.

Unfortunately they have often been exercises in rationalising pre-determined outcomes, or carried out after the decision is made"

- Dore et al. (2010: 38)

CPWF Project report: Improving Mekong Water Resources Investment and Allocation Choices

Thesis Research aim:

 To evaluate the impact of three recent hydroelectric dams in the Greater Mekong Subregion

Case Studies:

· Pak Mun (Thailand), Nam Theun 2 (Lao PDR), Lower Paunglaung (Myanmar)

Methods:

- · Landsat satellites (1972-present day)
- · Interviews with people in communities local to the dams

Disruption to livelihoods:

Before electricity generation

1hr after



Dry season 1989



River boundary from MNDWI

0 0.5 1

Dry season 2014

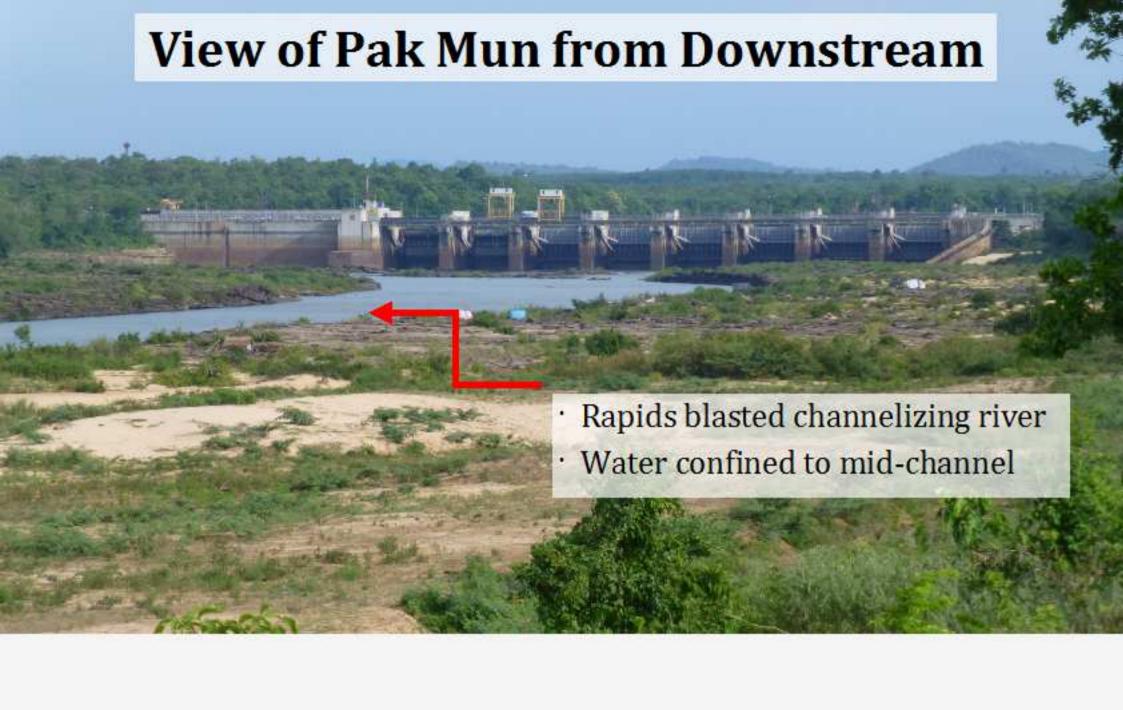


0 0.5 1



Tasseled Cap 'Wetness' Dry season change before/after: Increased wetness No change Increased Dryness 0.5





Tasseled Cap 'Brightness' (a proxy for clearance)

· Bank: flooding

Further inland:clearance/replacementwith crop

Dry season change before/after:

