

ODI Seminar 27th February 2009

**National adaptation framework challenges:
Lessons form the Chinese water sector**

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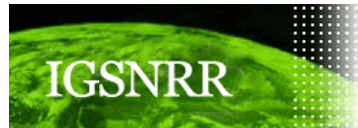


Context

Increasing awareness
and recognition

Institutional
coordination

Policy responses



From [The Times](#)

July 31, 2007

China climate change storms 'have affected 200 million'



Jane Macartney in Beijing

Violent storms and floods that experts say are a consequence of global warming have hit 200 million people in China.

Up to five million residents have been evacuated from their homes, while nearly 700 have lost their lives – a toll that threatened to climb yesterday as 69 miners remained trapped in a flooded shaft. Worse may be yet to come. Describing the floods as the most severe the country had suffered in a decade, Chinese officials cautioned that more deadly weather would wreak havoc before the end of the summer.

The floods, an annual threat for China, have affected nearly 20 per cent of the country's 1.3 billion population. The economic losses are estimated officially to be 52.5 billion yuan (£3.5 billion).

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World's youngest democracy hands Raven Crown to 28-year-old King

[Slide Show](#)

PICTURES OF THE DAY



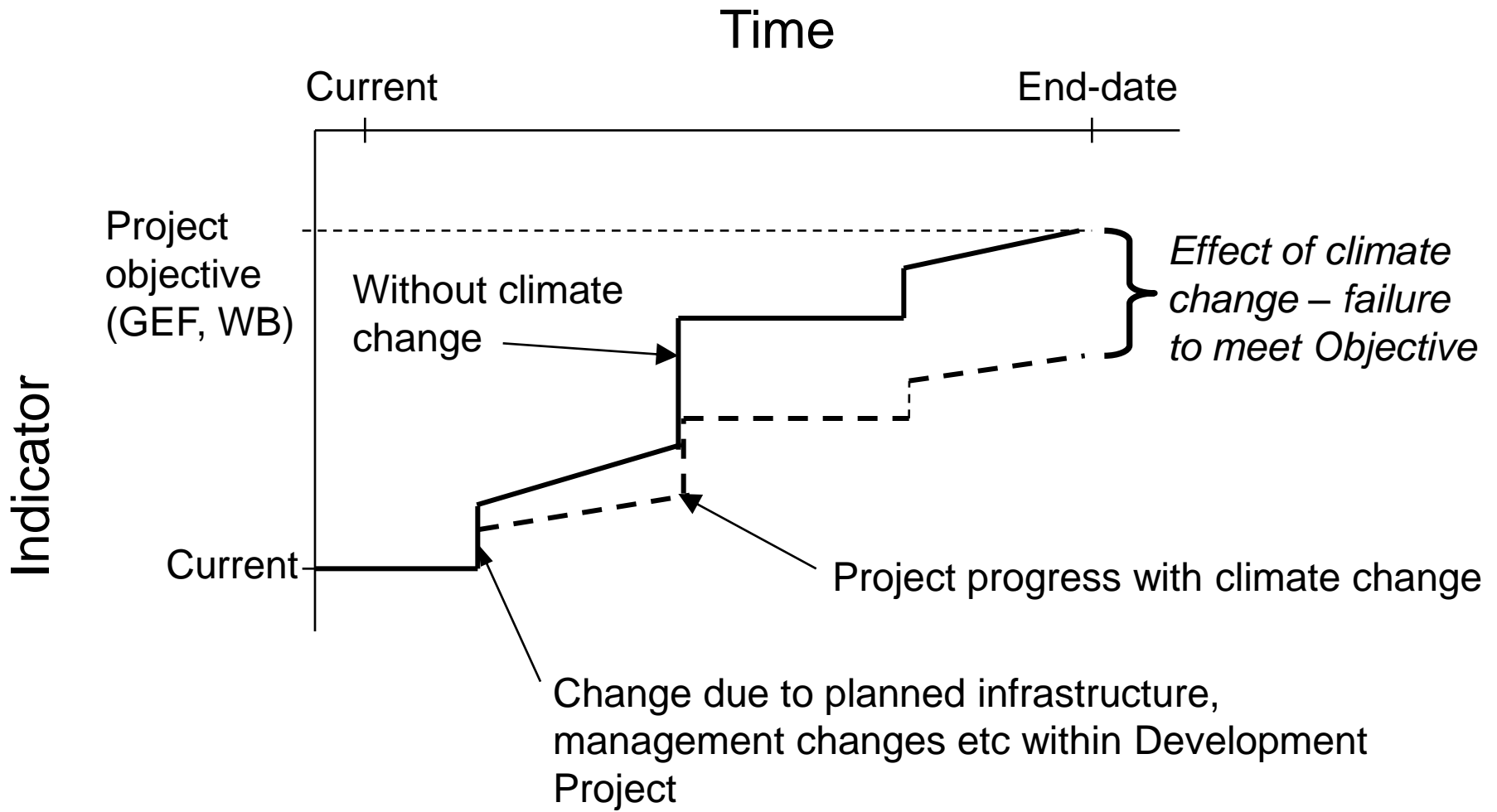
Cranfield
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Rationale

1. China is already experiencing impacts of climate variability and change
2. The impacts affect the effectiveness of investments
3. Additional effort to assess climate change and manage impacts





A Screening Framework for Climate Adaptation

Project	Location
Flood control and land drainage management project	Huai River Basin
Management of Miyun reservoir for water security for Beijing	Chaobai in Hai River Basin
Water Conservation Project: Agricultural water use efficiency	Hai River Basin
Integrated Restoration Plan for the Shiyang River Basin	Shiyang River Basin



A Screening Process for Climate Impacts

Key questions

- What is impact of climate variability and change on the project?
- Options for how to manage the impacts?
- Whether to manage the impacts?

Economic cost benefit analysis of options

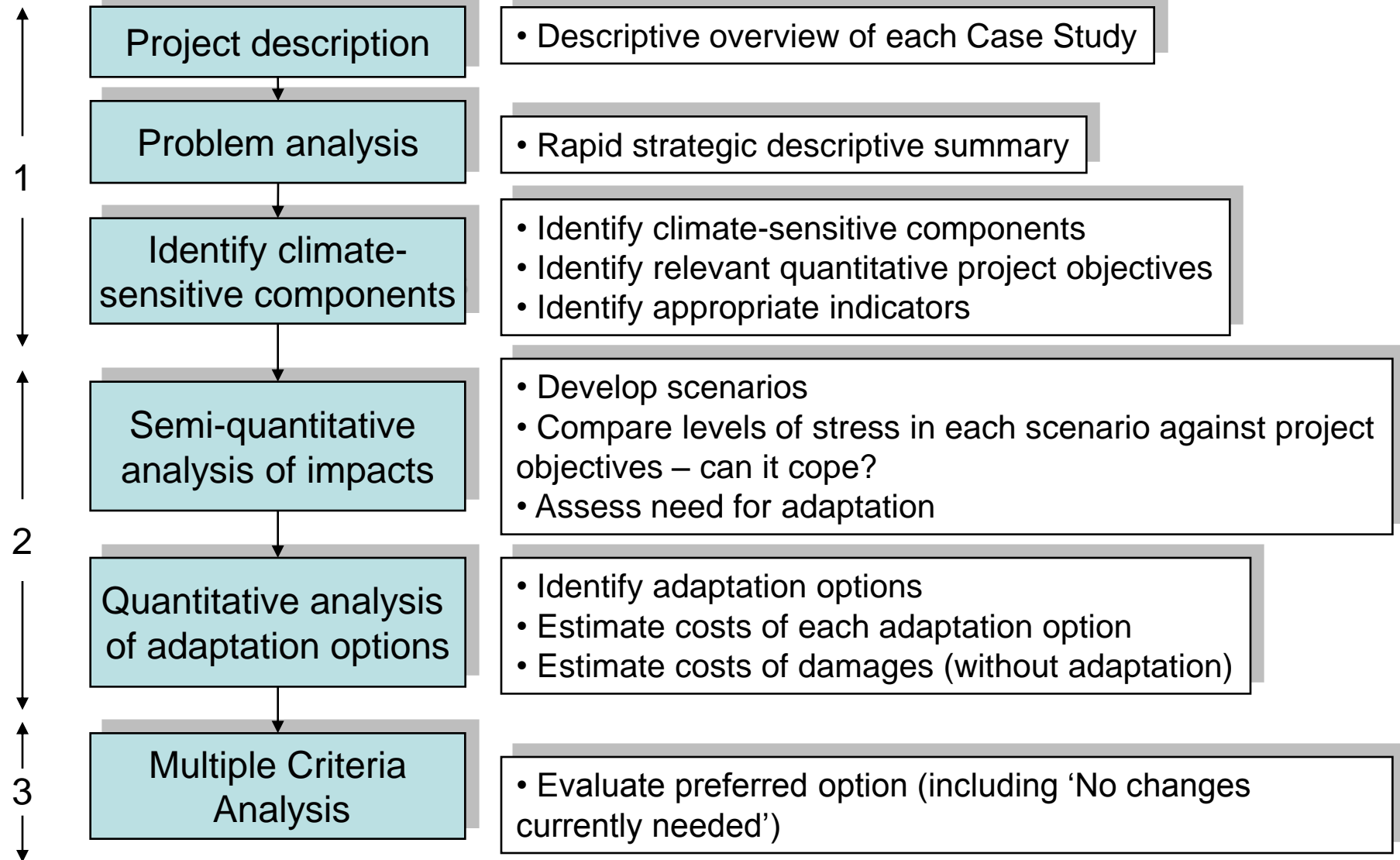
Decision on options aided by a multi criteria analysis

- Non-economic cost factors



Phase

Steps



Experiences from Testing in Water Sector in China

- Raise awareness and promote action
- China's experience in managing climate impacts
- Dealing with future uncertainty
 - Scenario, Timescale, Extreme events
- Non-monetary aspects of economic evaluation
- Tackling demand as well as supply issues



Lessons for national adaptation frameworks

- Scale issues - national to local level
- Hard versus soft systems approaches
- Tackling the existing adaptation deficit
- The 'no change' option
- The role of climate science
- Ongoing cycle of learning
- Integration into planning



■ Adaptation not always best option



