

Introducing indirect effects of climate change on the adaptation agenda

– responding to overseas climate change

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Amsterdam 23 March 2012

This talk

- The current framing of adaptation
- Indirect impacts of climate change - conceptualization
- The Swedish forestry example
- Implications

The current framing of adaptation

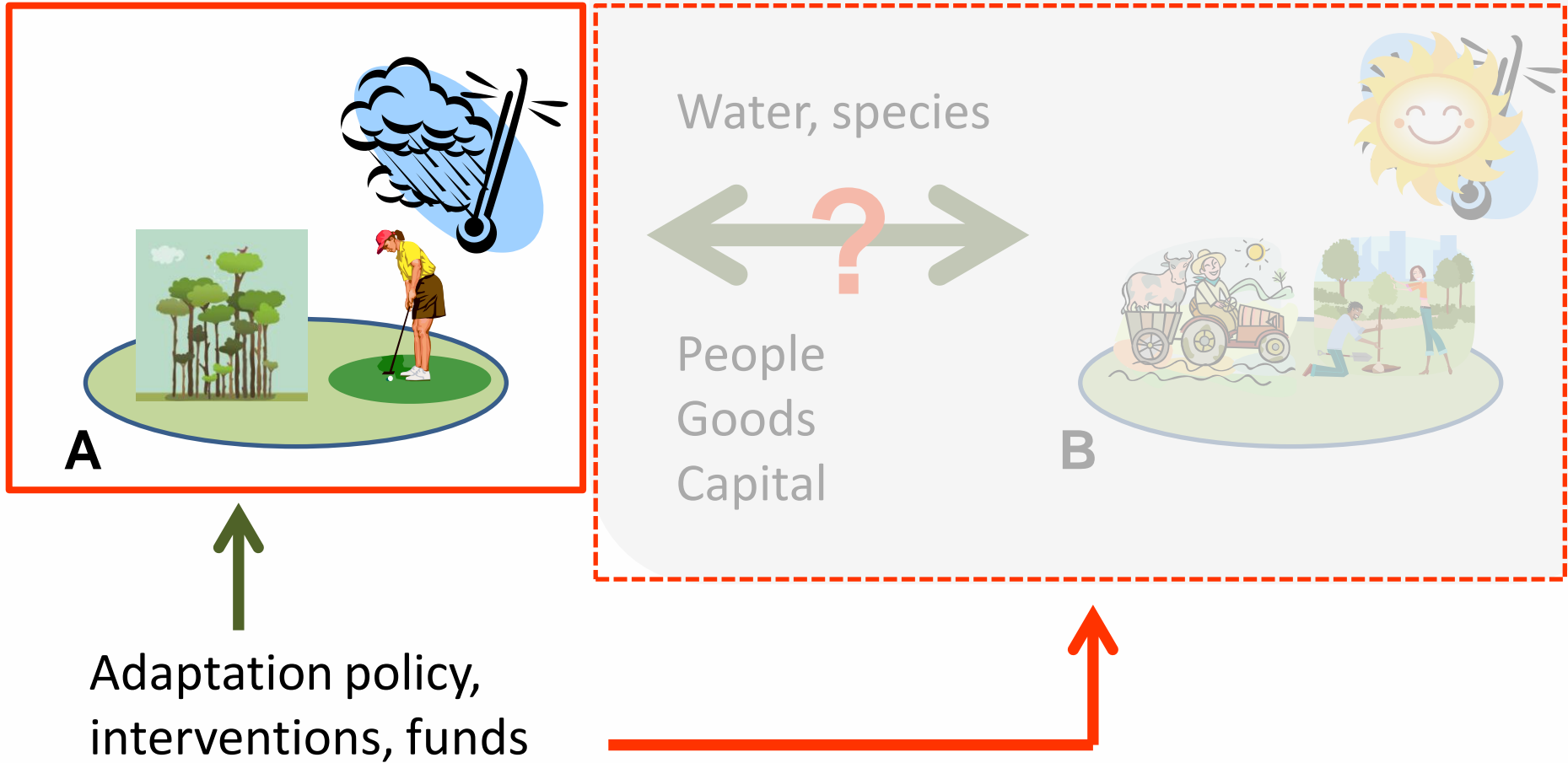
Adaptation as

“adjustments in ... systems in response to ... climatic stimuli and their effects or impacts”

The *effects* and the *needs to adapt* occurring in the same location

A dominating view in both research and policy.

Indirect impacts of climate change - conceptualization



The current framing of adaptation:

- i) Does it adequately capture the decision making situation on the ground?

- ii) Does it lead to sub-optimal policy responses, since not all relevant climate change impacts are accounted for?

Swedish forestry sector example

- Covering 60% of Sweden, 10-12% of industrial employment, 3-4% of total GDP
- Ownership shared among 350 000 individual owners (50%), private companies (25%), national state (25%)



Sources

1	Swedish Forestry Bill 2007/08:108 <i>A forestry policy in line with the times</i>
2	<i>Sweden facing climate change - threats and opportunities</i> (2007)
3	<i>A National Research Agenda – for the Swedish forest-based sector</i> (2006)
4	<i>Swedish Forest Sector Outlook Study</i> (UNECE/FAO 2011)
5	<i>European Forest Sector Outlook Study II</i> (UNECE/FAO 2011)
6	EC Green Paper; <i>Preparing forests for climate change</i> (2010)
7	<i>Forest Products, UNECE/FAO Annual Market review</i> (2009-2010)

Sources

Sources	Indirect impacts on forestry mentioned?	Indirect impacts on forestry analyzed?	Indirect impacts affecting conclusions, recommendations?
1 Swedish Forestry Bill 2007/08:108 <i>A forestry policy in line with the times</i>			
2 <i>Sweden facing climate change - threats and opportunities</i> (2007)			
3 <i>A National Research Agenda – for the Swedish forest-based sector</i> (2006)			
4 <i>Swedish Forest Sector Outlook Study</i> (2011)			
5 <i>European Forest Sector Outlook Study II</i> (2011)			
6 EC Green Paper; <i>Preparing forests for climate change</i> (2010)			
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Swedish forestry sector results

- Documents providing advice or regulatory change strictly limited to forest management issues
- Analyses that do address indirect impacts find climate change itself to be less important than many other change processes (e.g. market development, climate and energy policy)
- No common approach to analysing indirect impacts

Implications

Research:

- relative importance of direct and indirect impacts of climate change, on different time scales
- identifying decision making situations that merit analysis of indirect impacts

Knowledge provision:

- exploring what value better understanding of indirect impact would bring

Financing adaptation: who to pay, and for adapting to what?

Thanks!

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