





## Landscapes of desire?

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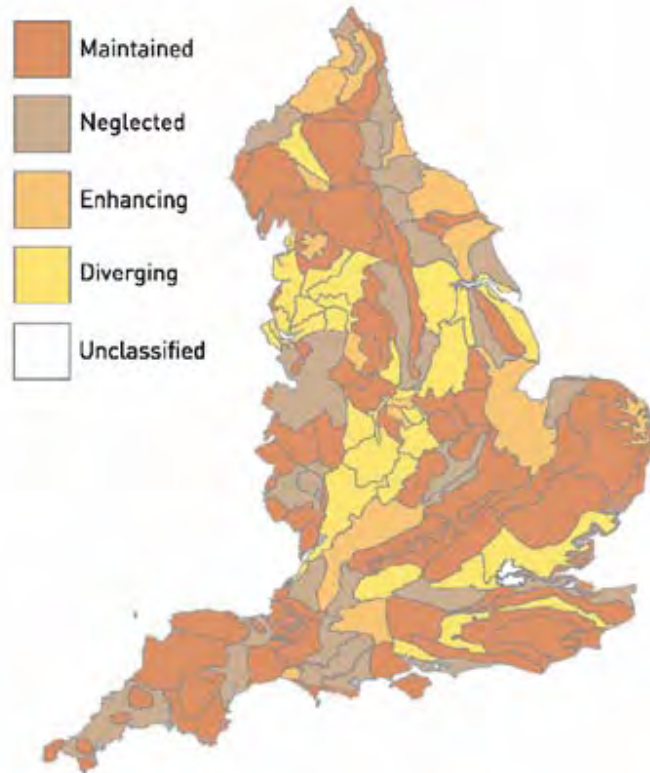
# Scenarios

- A tool for helping us think about the future....
- They are ***not*** predictions but ways of exploring the landscapes of desire *and landscapes that we might want to avoid....*



Qua *CaixaForum, Madrid*  
( Creator: *Patrick Blanc*

# Our changing countryside



- Countryside Quality Counts (1998-2003)
  - *Where is change occurring?*
  - *Does it matter?*
- Easier to answer when monitoring past changes – but what about the future?

# Scenarios and science?

EEA Report | No 4/2007

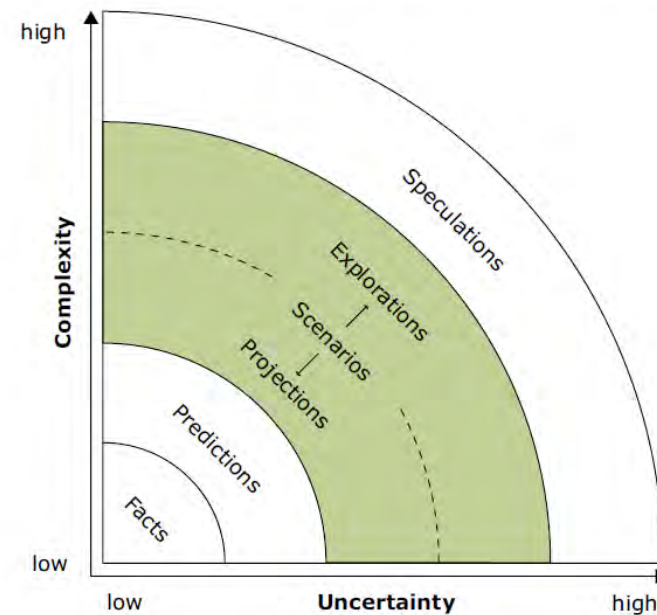
The pan-European environment:  
glimpses into an uncertain future

ISSN 1725-9177



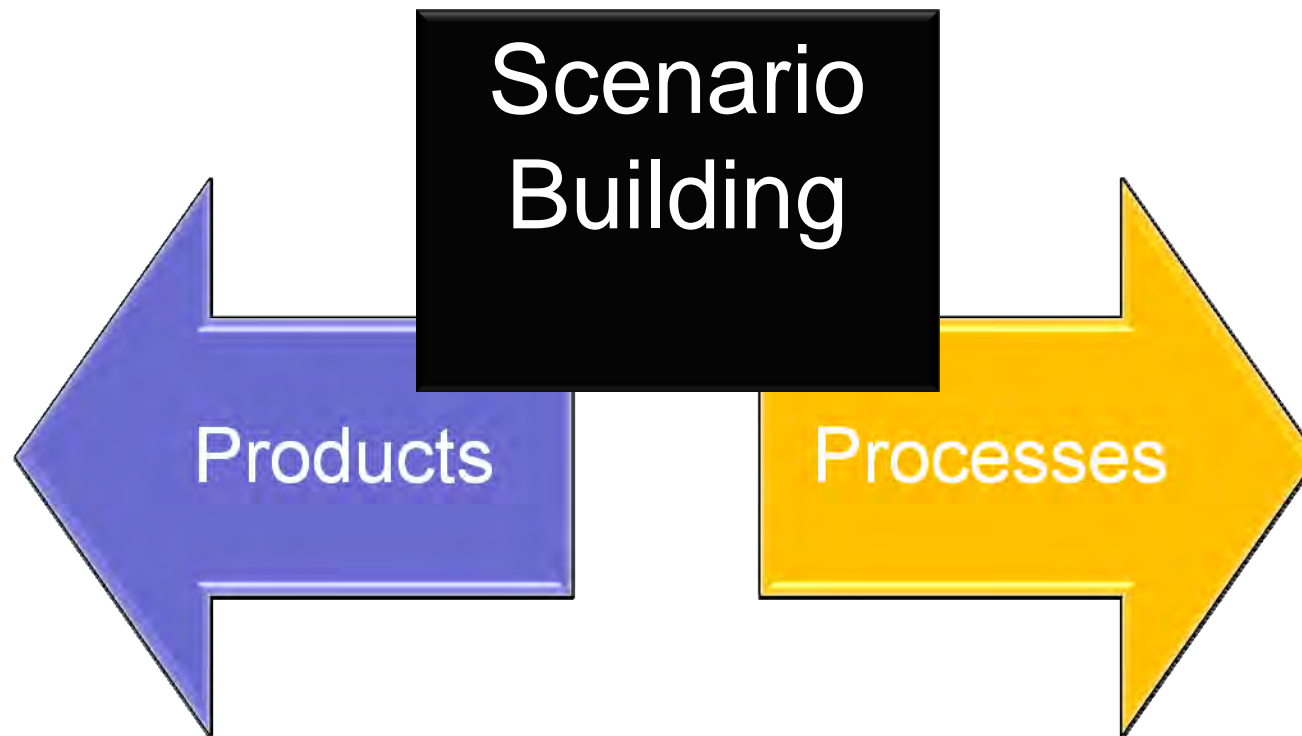
European Environment Agency 

**Figure 2.1 Dealing with uncertainty and complexity of the underlying system dynamics in forward-looking assessments**



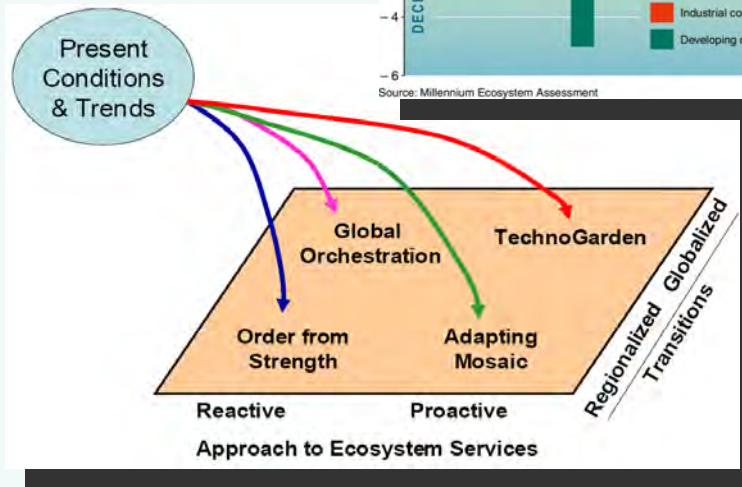
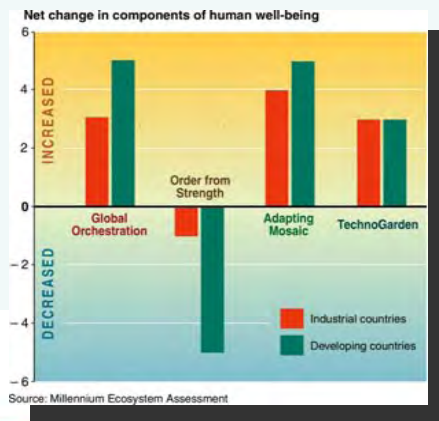
Source: Zurek and Henrichs, 2007.

# Scenarios and science?



# Scenarios: Products vs Processes

- Products



## Examples:

### *Millennium Ecosystem Assessment (2005)*

- *Looked at the fate of ecosystem services, globally*

### *UK National Ecosystem Assessment (UKNEA)*

- *Is now looking at changing ecosystem services at the national scale...*

# Scenarios: Products vs Processes

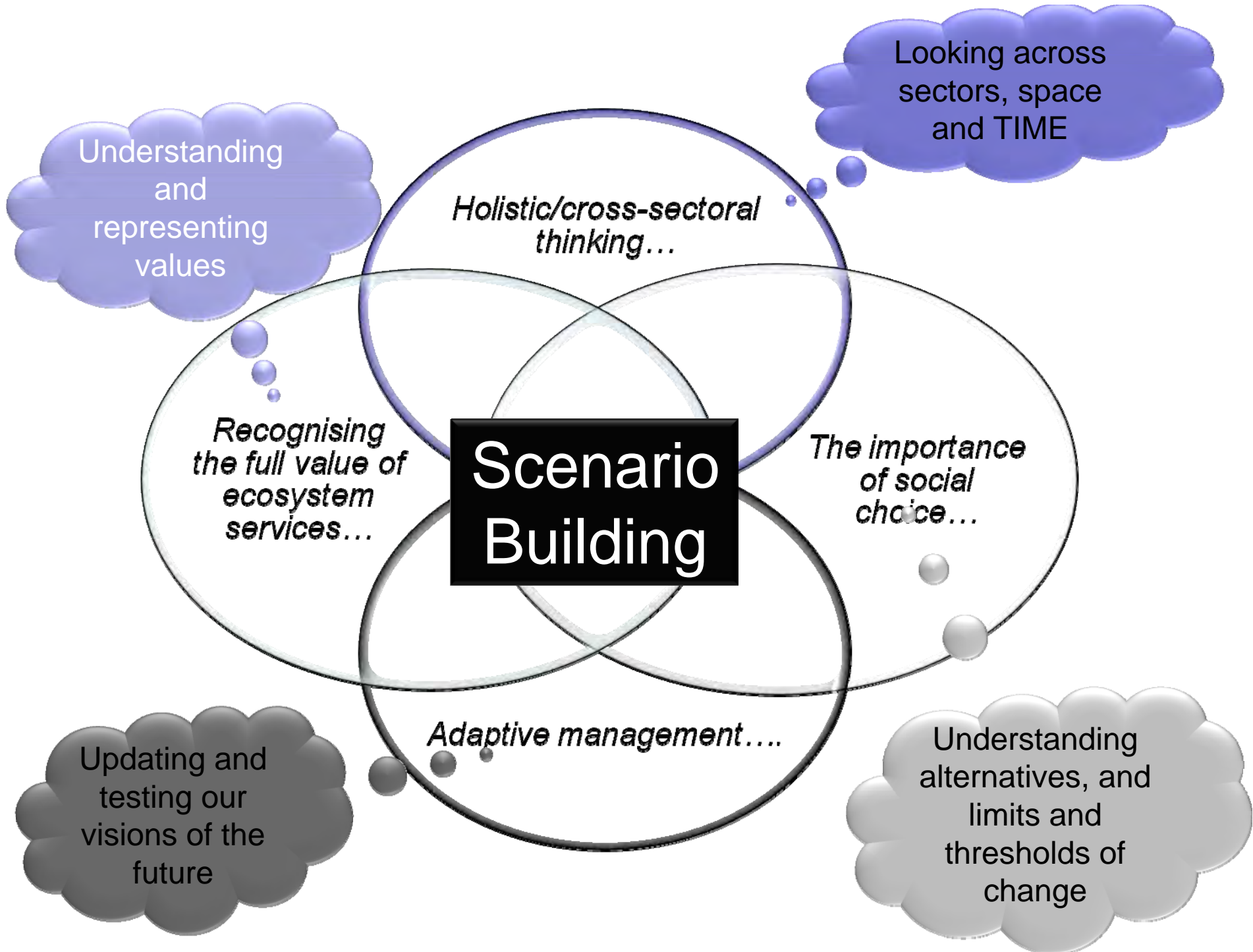
Understanding stakeholder views is essential if we are to sustain ecosystem services

- *We need new types of partnerships between the natural and social sciences*
- *Stakeholder engagement is a fundamental part of the ecosystems approach*

## • Processes



*Scenarios 'shape and embed their social contexts' (Garb et al. 2008)*



*Holistic/cross-sectoral thinking...*

Looking across sectors, space and TIME

Understanding and representing values

*Recognising the full value of ecosystem services...*

# Scenario Building

*The importance of social choice...*

Updating and testing our visions of the future

*Adaptive management....*

Understanding alternatives, and limits and thresholds of change

# UK National Ecosystem Assessment

- The UK National Ecosystem Assessment (UK NEA) is making use of scenario tools to explore:
  - *How ecosystems and their services could change in the future under a plausible set of scenarios?*
  - *What the possible effects might be on people's well-being?*

# Landscapes of desire vs landscapes of fear

## Backcasting

- Thinking how to achieve our goals.....

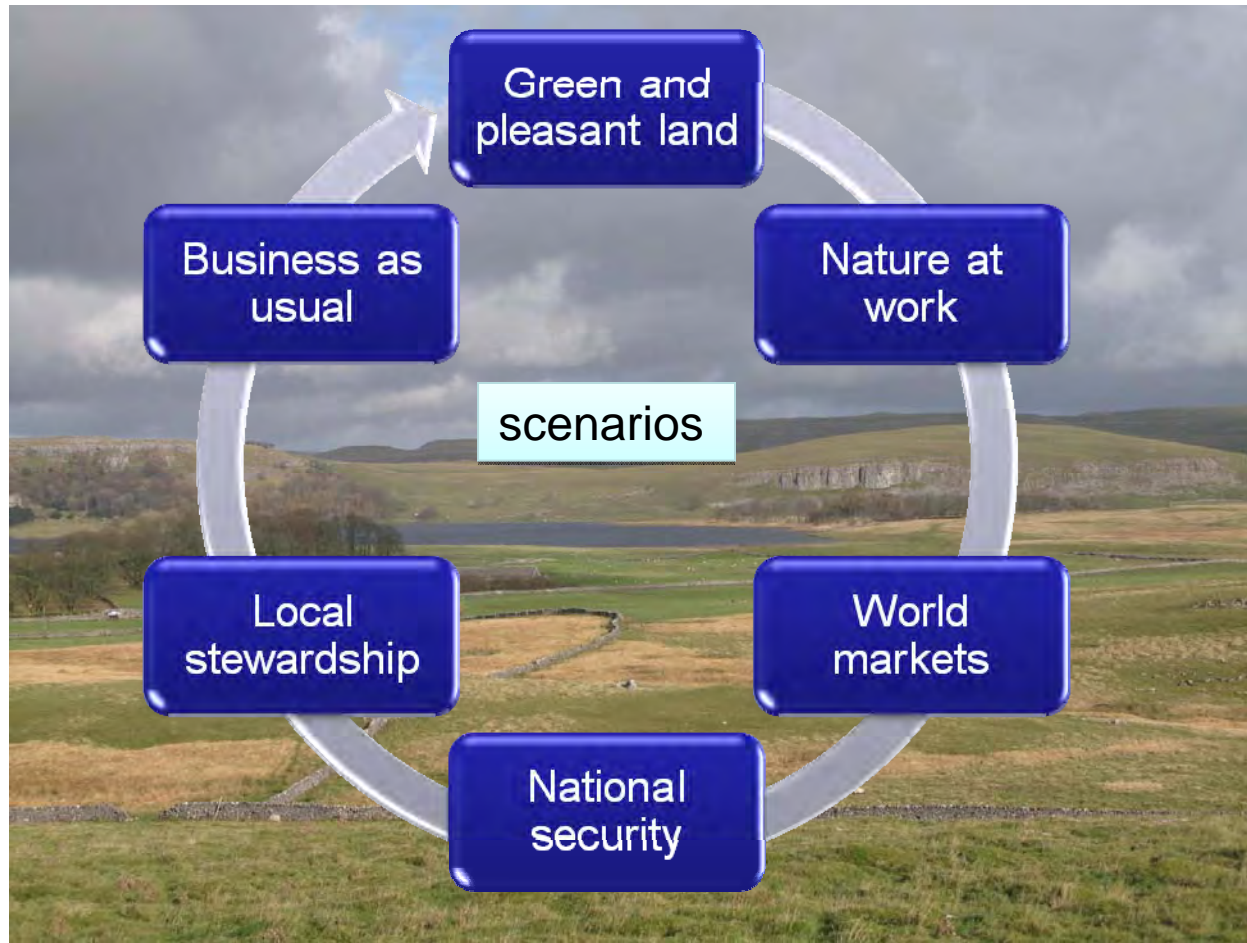
## Forecasting

- Extrapolating from the present....

In 2060?



# UK National Ecosystem Assessment



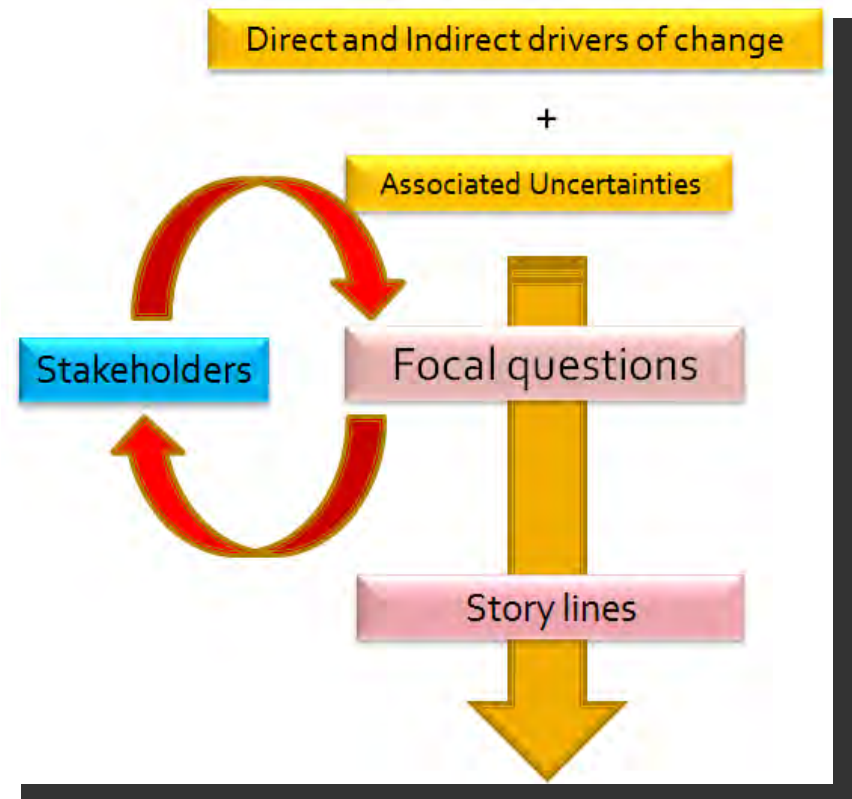
# Climate change?

Climate change scenario	Change in climate change factor in 2060							
	Mean Summer Temp	Mean Winter Temp	Mean Summer Precipitation	Mean Winter Precipitation	Drought events	Storm events	CO <sub>2</sub>	Sea level
Low	+1.0°C to +2.0°C	+1.0°C to +2.0°C	-5% to -10%	+5% to +10%	One prolonged drought every 10 years	One every 5 years	450ppm	+15cm
High	+3.0°C to +4.0°C	+3.0°C to +4.0°C	-15% to -30%	+15% to +20%	Two consec. droughts every 5 years	One every 15 years	550ppm	+45cm

	Green and Pleasant Land		Nature at work		National Security		World Market		Local Stewardship		Business as Usual	
Carbon sequestration	↑		↑		→		↓	↓		→	→	
Carbon emissions	↑		↑				↓	↓				
Crop yield	→				↑		↑		↓	↓		→
Prevention of soil erosion	↑		↑	↑	→		↓	↓				→
Flood alleviation			↑	↑	→		↓	↓		↓		↓
Meaningful places	↑	↑	↑	↑			↓	↓	↓	↑		↓
Freshwater provision			↑	↑			↓	↓	↓		→	→
Pollination	↑	↑	↑		→		↓	↓	↓		→	
Climate Change	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High

# Landscapes of desire?

- These are only preliminary results from the NEA...
- Final reports will be published in early 2011
- What are the future rural and urban landscapes that you desire or fear?



<http://uknea.unep-wcmc.org>



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