

# NSW FUTURE FOREST SCENARIOS

## INTRODUCTION & OVERVIEW

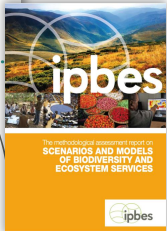
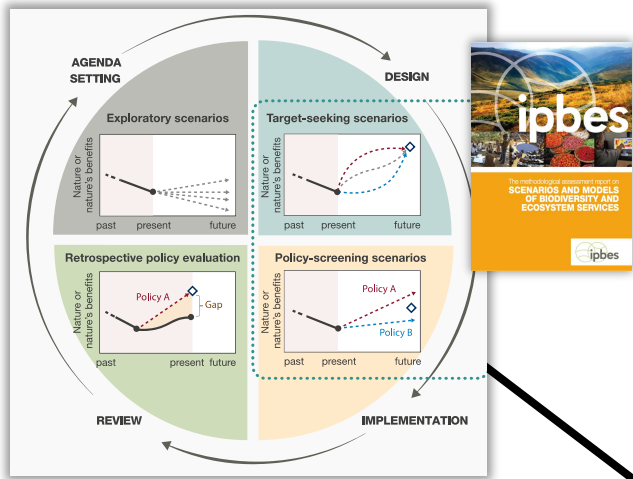
Peter Kanowski, Steve Cork, Steve Lade – ANU  
Simon Ferrier – CSIRO  
16.09.21



Australian  
National  
University

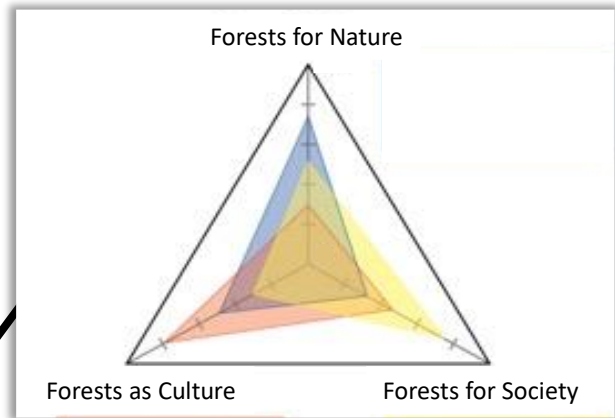


Natural  
Resources  
Commission



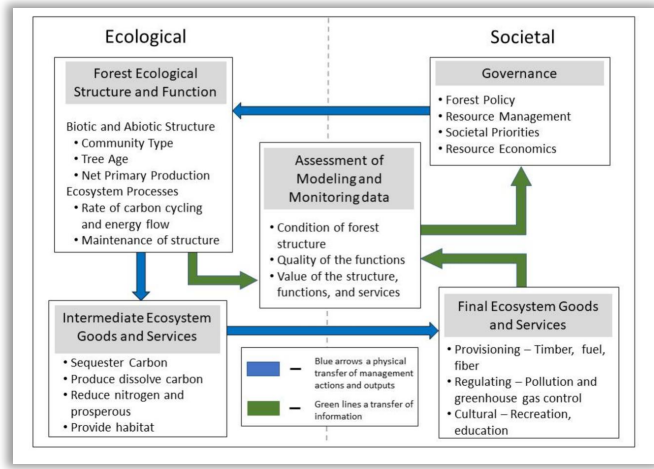
A modification to the Nature Futures Framework, which we think has some acceptance by the NSW Government and stakeholders

Helps us address interactions among **values** in a systems context



Conceptual framework to explain the **roles of scenarios in policy and planning** and the choice of scenario approaches to suit purposes

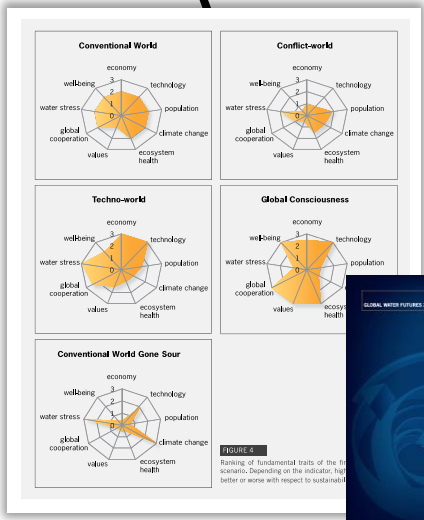
**Forest scenarios project**



A useful start towards a **conceptual model** of social-ecological systems around forests (Kleindl *et al.* 2018)



A concept that the NSW Government has used – a way to think about **social-ecological systems**, and what might cause them to change or stay the same

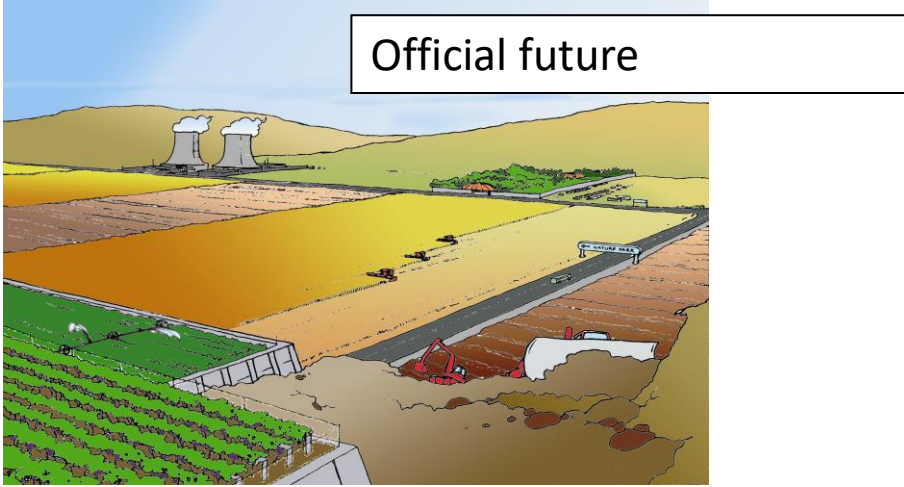


Example of a **scenario process** that we think could serve the current purposes

# What are scenarios?

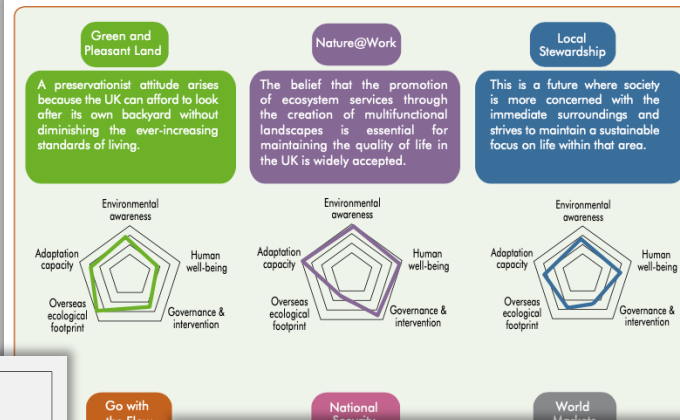
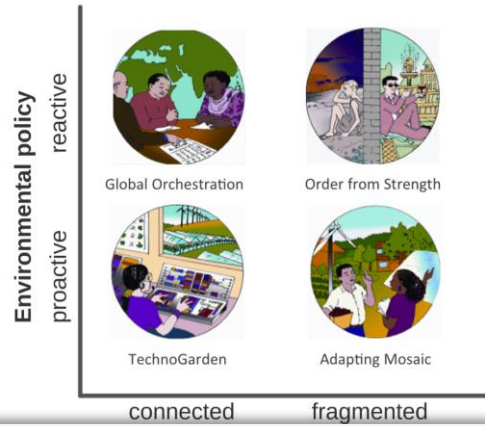
- Representations of multiple plausible futures
- The good ones:
  - Explore multiple plausible futures
  - Are systematic, transparent, evidence-based as far as possible
  - Surface, explore and test our assumptions

# Many types of futures



# Many approaches

## MEA scenarios



## The main characteristics of the four SRES storylines and scenario families

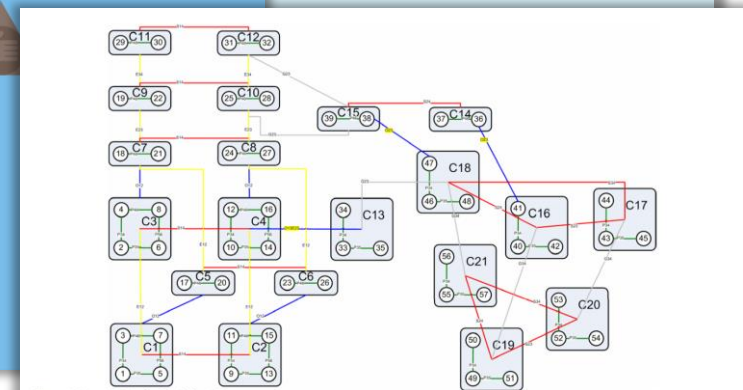
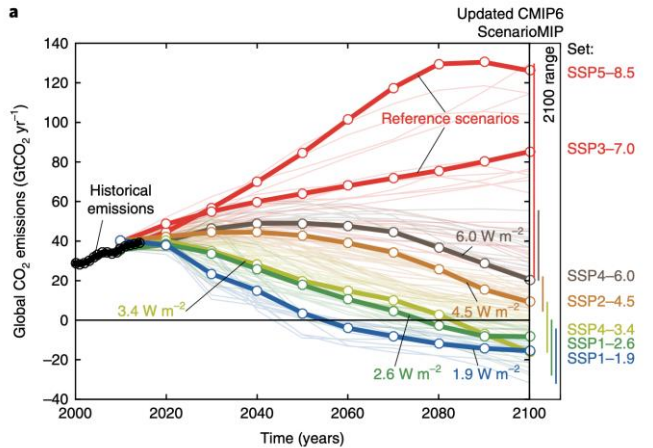
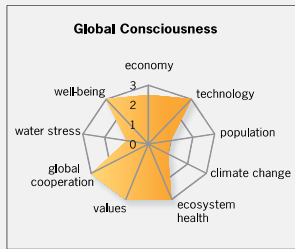
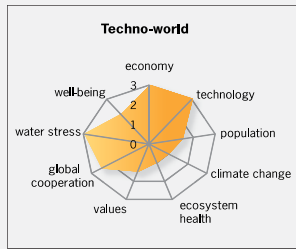
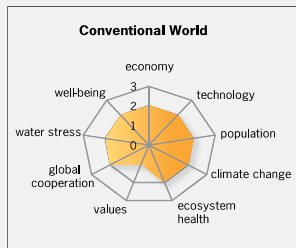
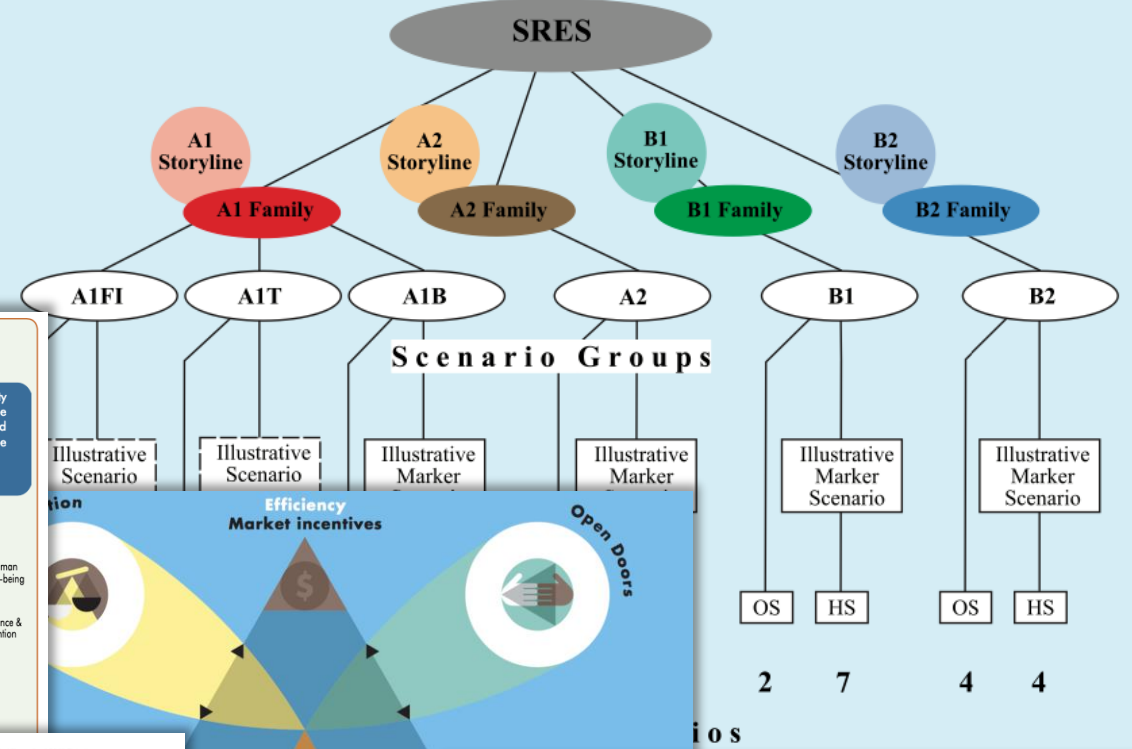


Figure 4. Faustian Tree for Workshop 3. The best-case scenarios lie at the bottom left of the figure (C1 and C5); Economy worsens towards the top of the figure. The worst-case scenarios lie to the right of the figure, with poor security, economy and governance and an unstable population. According to the pairwise comparison from Workshop 3, Infrastructure and the Environment transition from Megacity to Modern Metropolis only from clusters C1, C3, C5, C7 and C9.

# Common components

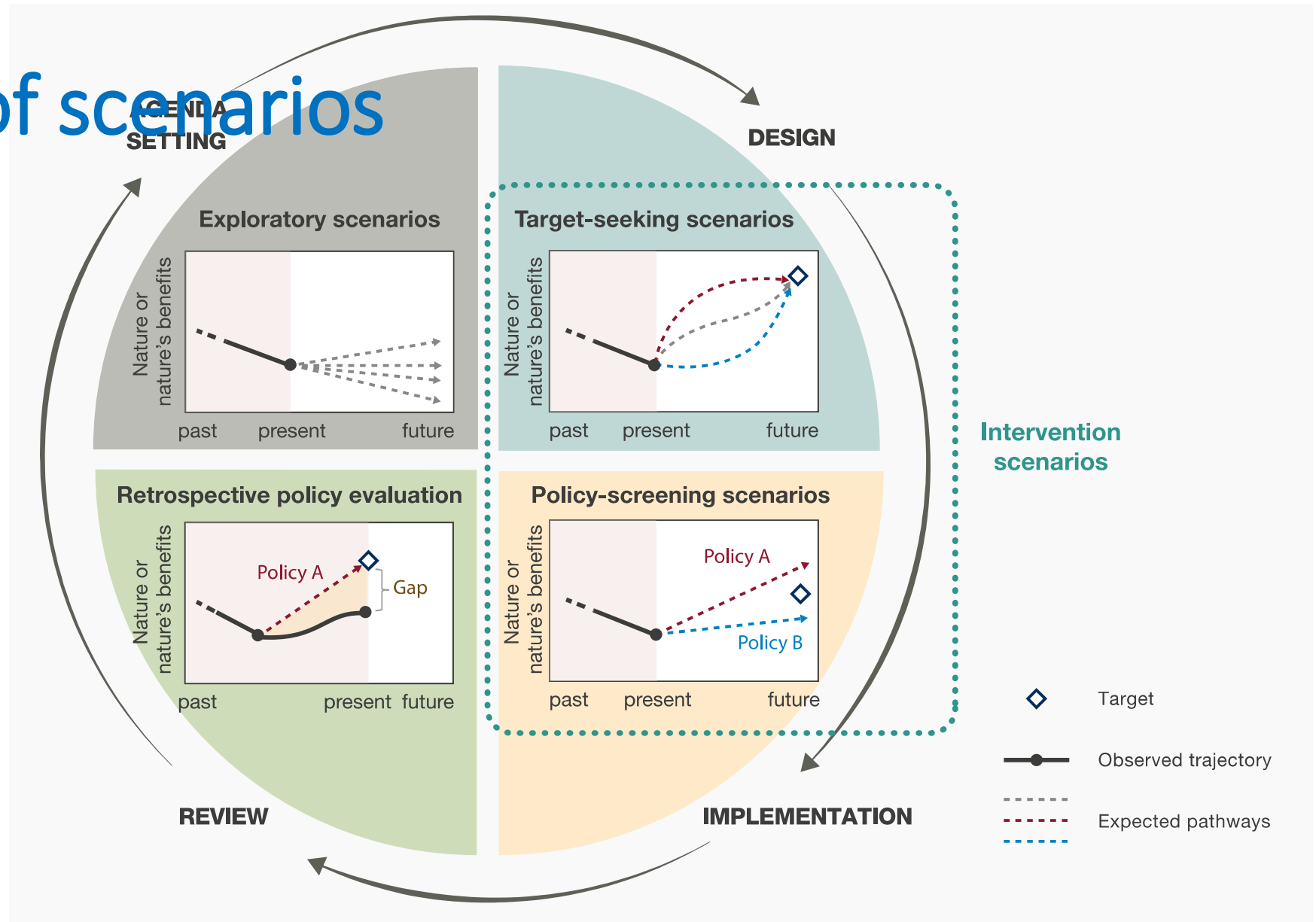
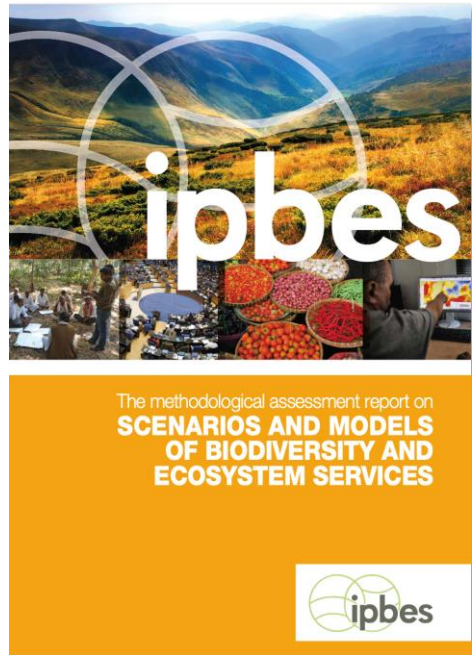


# Our focal question – NSW forests

What might be:

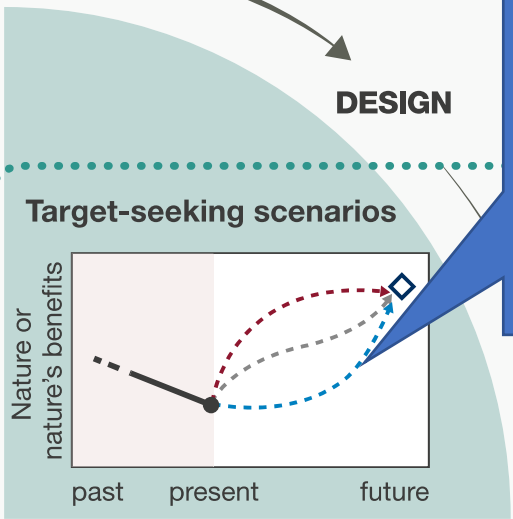
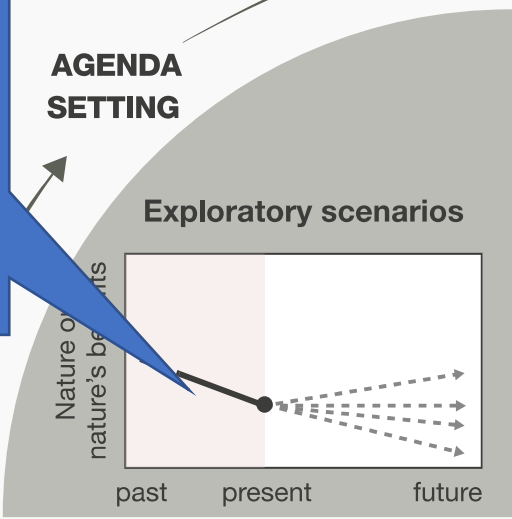
- the range of alternative, plausible futures for NSW forests?
- the pathways by which these futures emerge?
- the implications of different decisions along the way?

# Purposes of scenarios

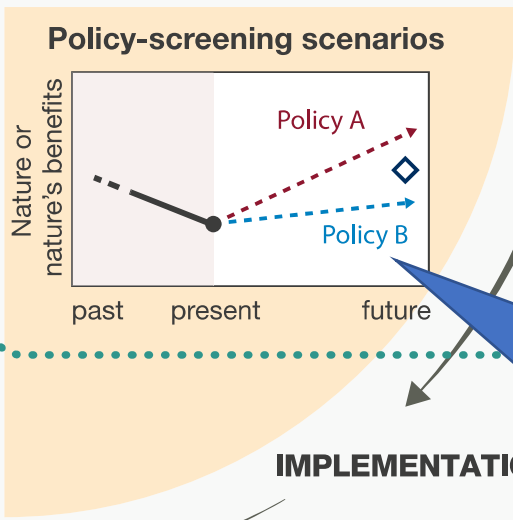
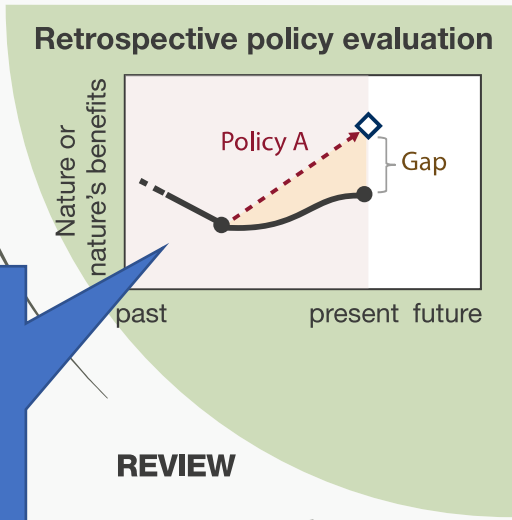




What range of futures might emerge?  
How?  
Implications of different decisions?



How might we get to a desired future?



Intervention scenarios

How could we have done better?

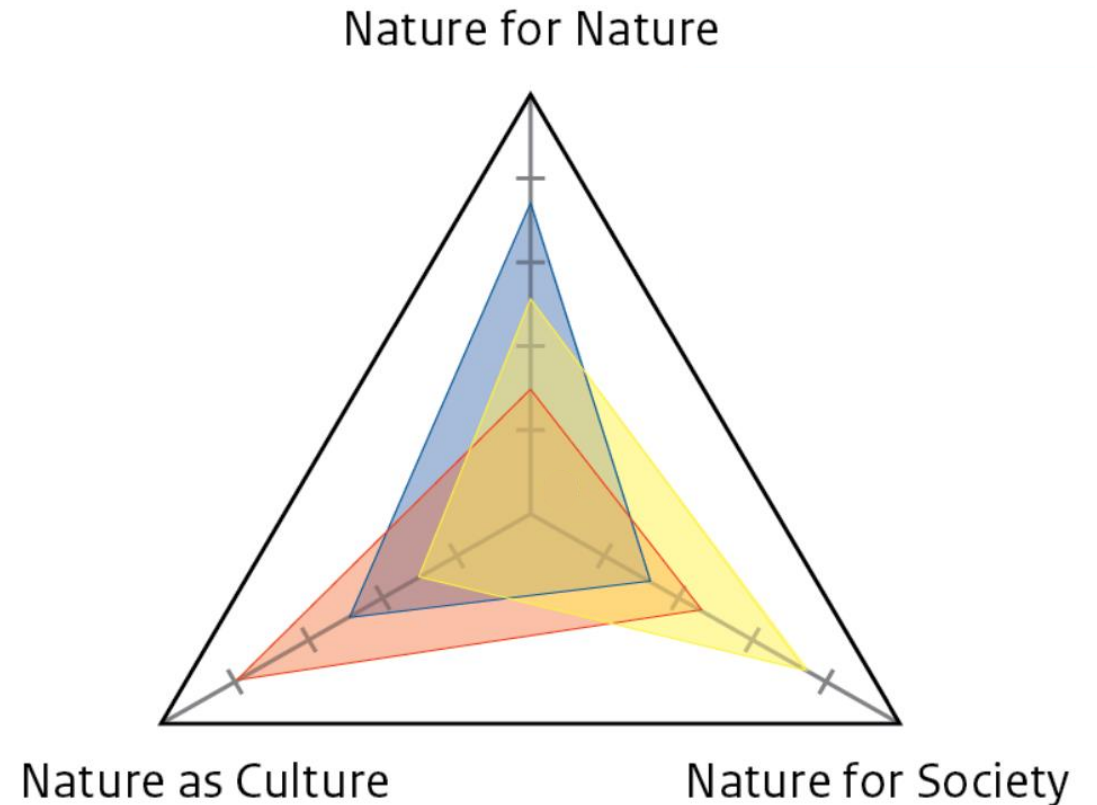
What policy options might get us closest to a desired future?

# Values (Nature Futures Framework)

*Nature for Nature:* Nature has value in and of itself, and the preservation of nature's diversity and functions is of primary importance

*Nature for Society:* Nature is primarily valued for the benefits or uses people derive from it, and which could lead to an optimization of multiple uses of nature

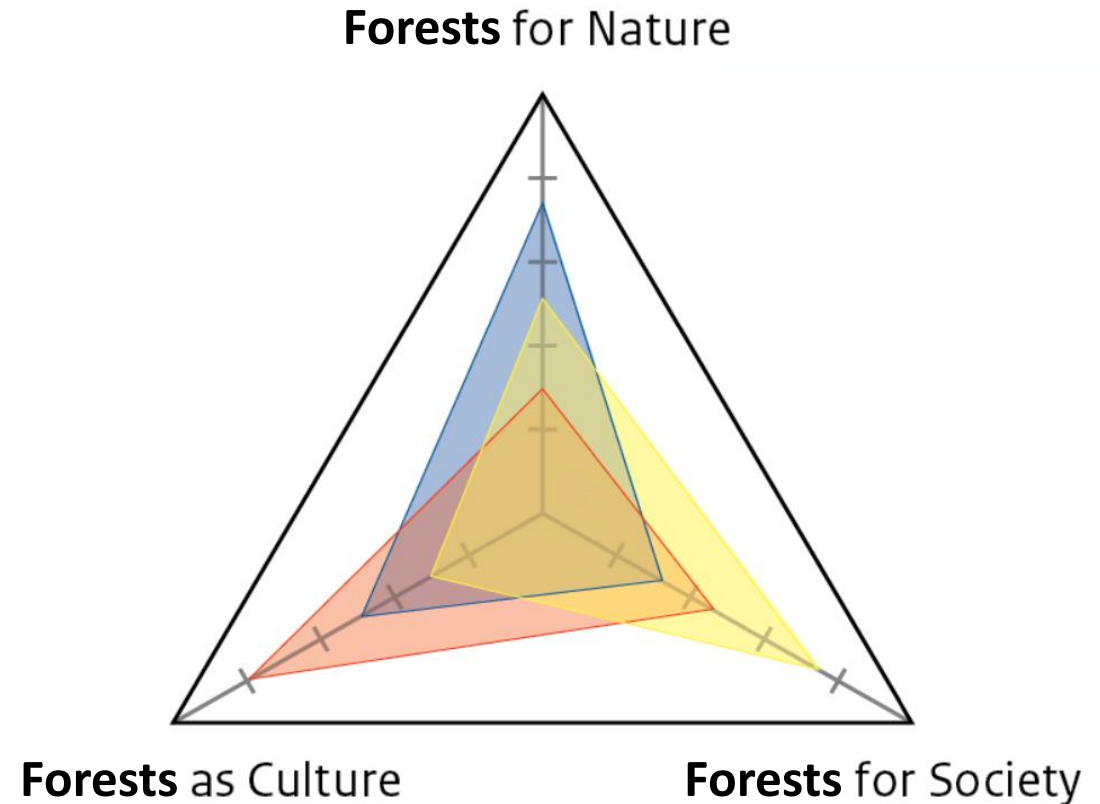
*Nature as Culture:* Humans are perceived as an integral part of nature, and therefore what is valued is the reciprocal character of the people–nature relationship



Nature Futures Framework

# Values in this project

- Focus on NSW forests
- Initially, just focus on the three points of the triangle
- Think about the combinations later




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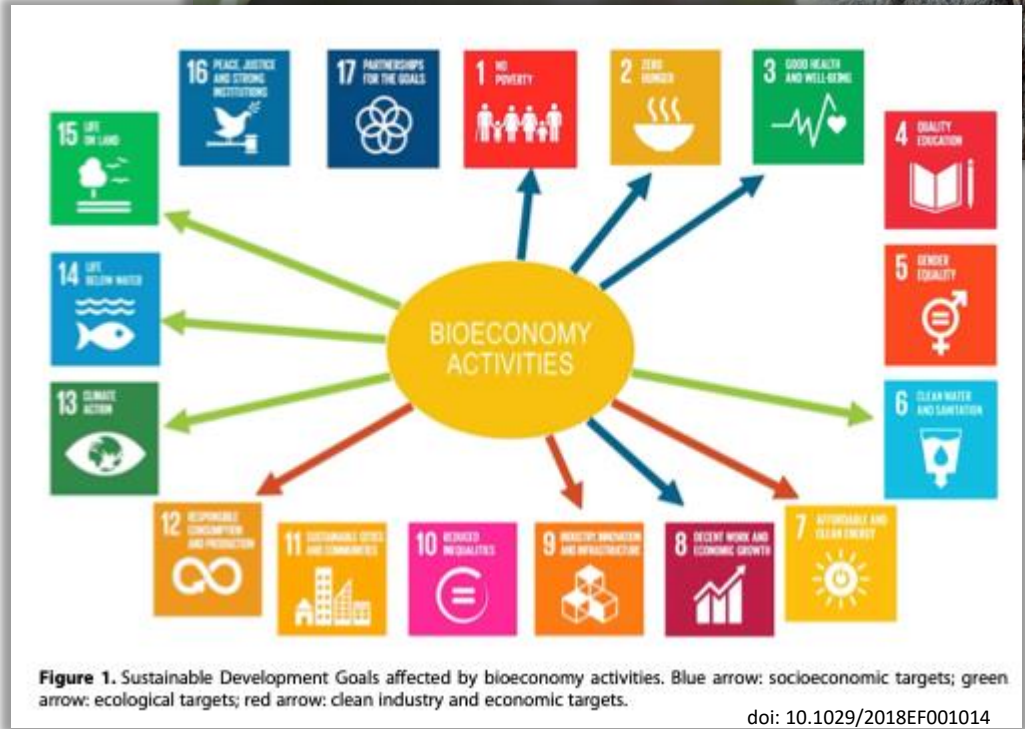
WATCH OUR STORY




**Cultural and Natural Resource Management: A Case Study of a Carbon Abatement Project in the Southwest Gulf of Carpentaria**  
 Seán Kerins, Centre for Aboriginal Economic Policy Research

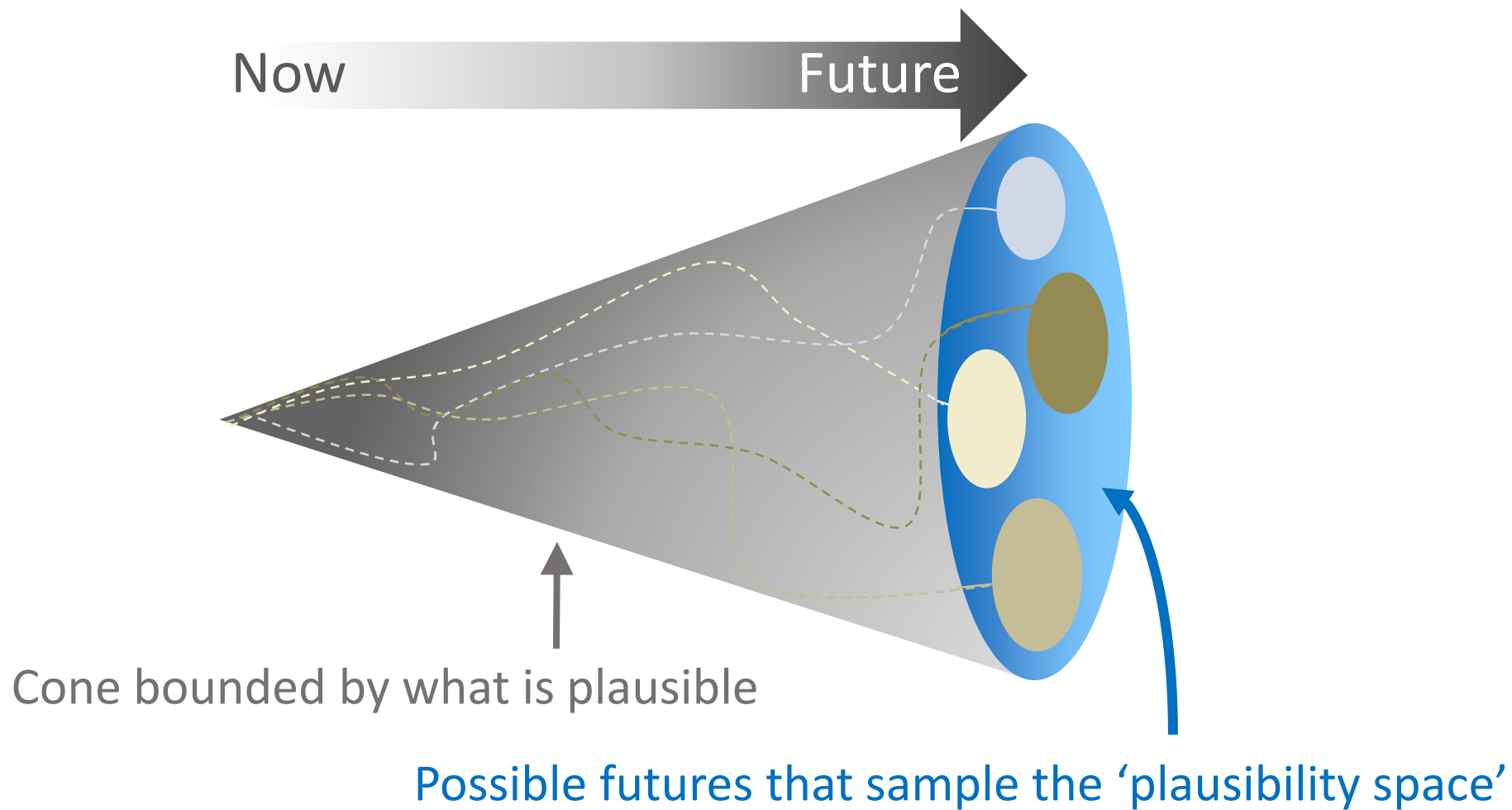


[www.forestrycorporation.com.au/visit](http://www.forestrycorporation.com.au/visit)

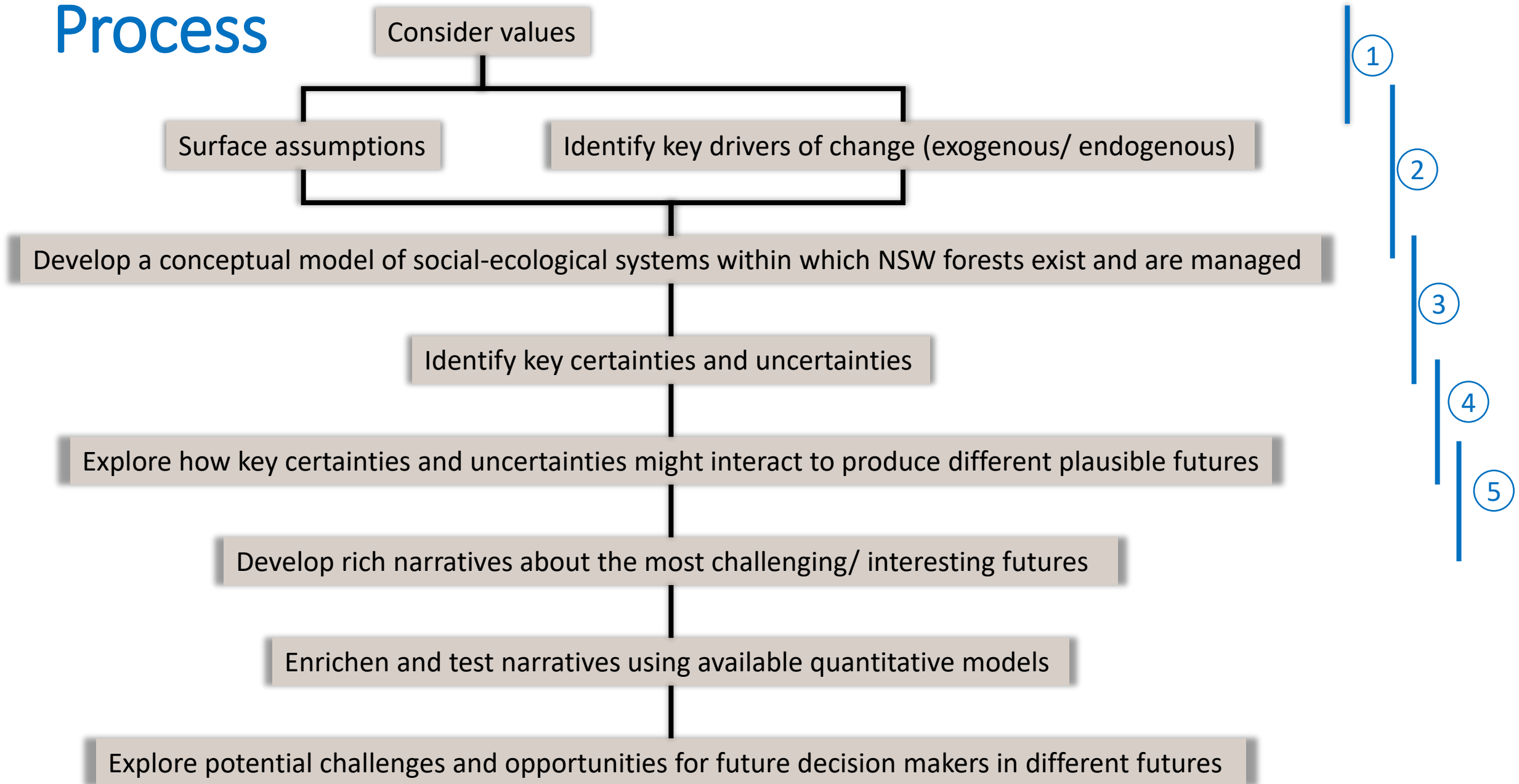


doi: 10.1029/2018EF001014

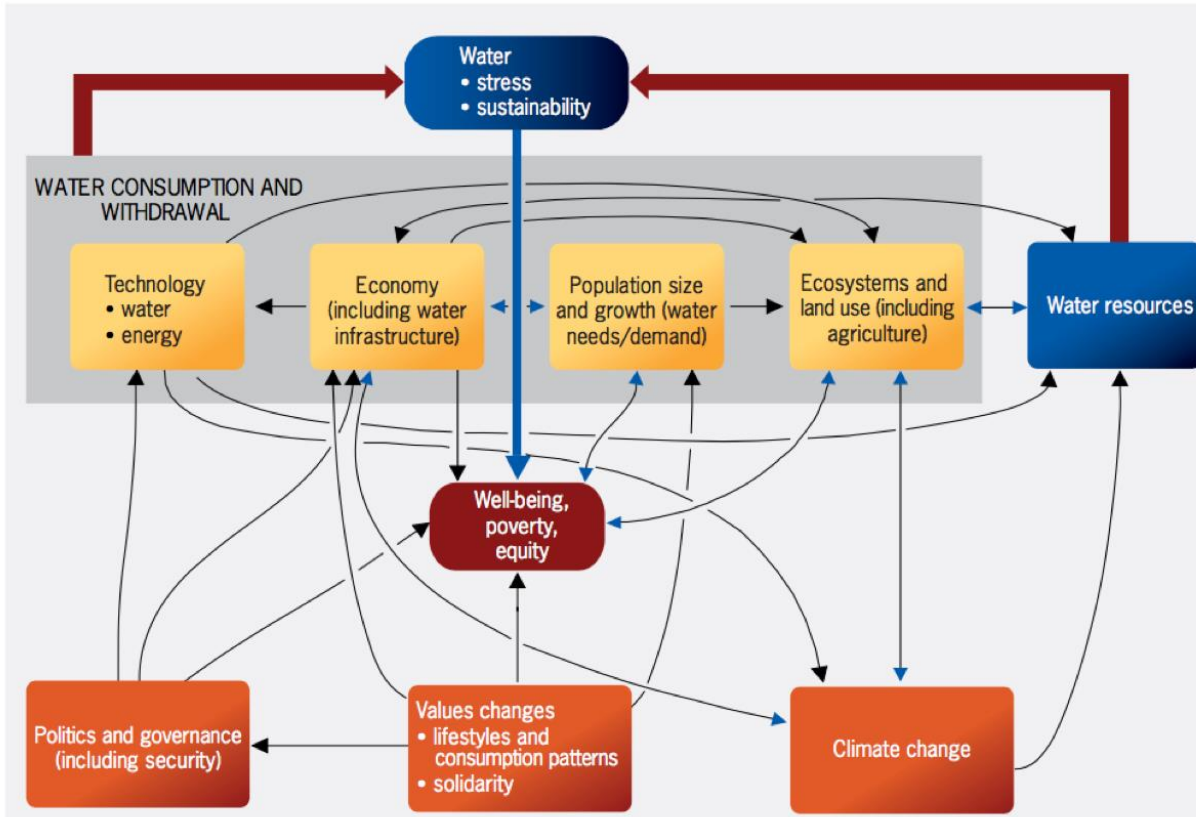
# Multiple plausible futures



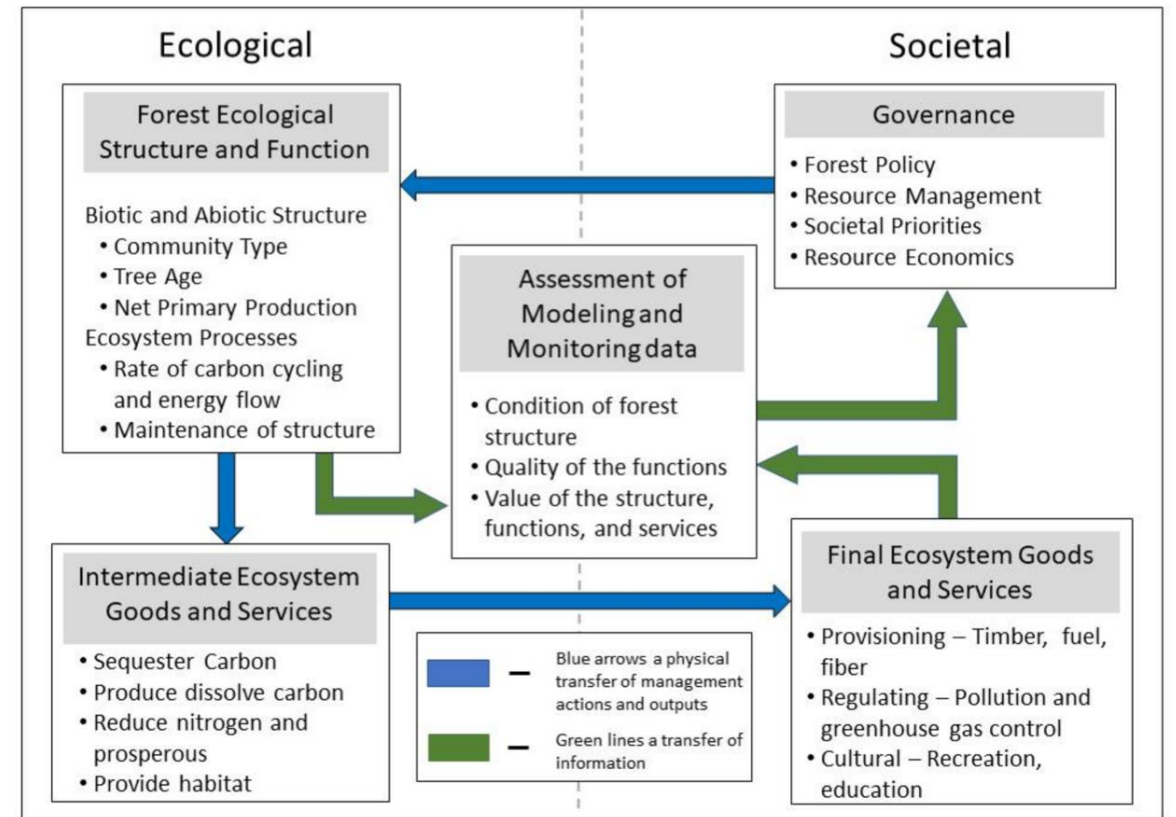
# Process



# Examples of conceptual models



(Gallopín 2012)



(Kleindl *et al.* 2018)

# Exploring critical uncertainties

Environmental policy *reactive*



Global Orchestration



Order from Strength

World  
governance  
*connected*

World  
governance  
*fragmented*



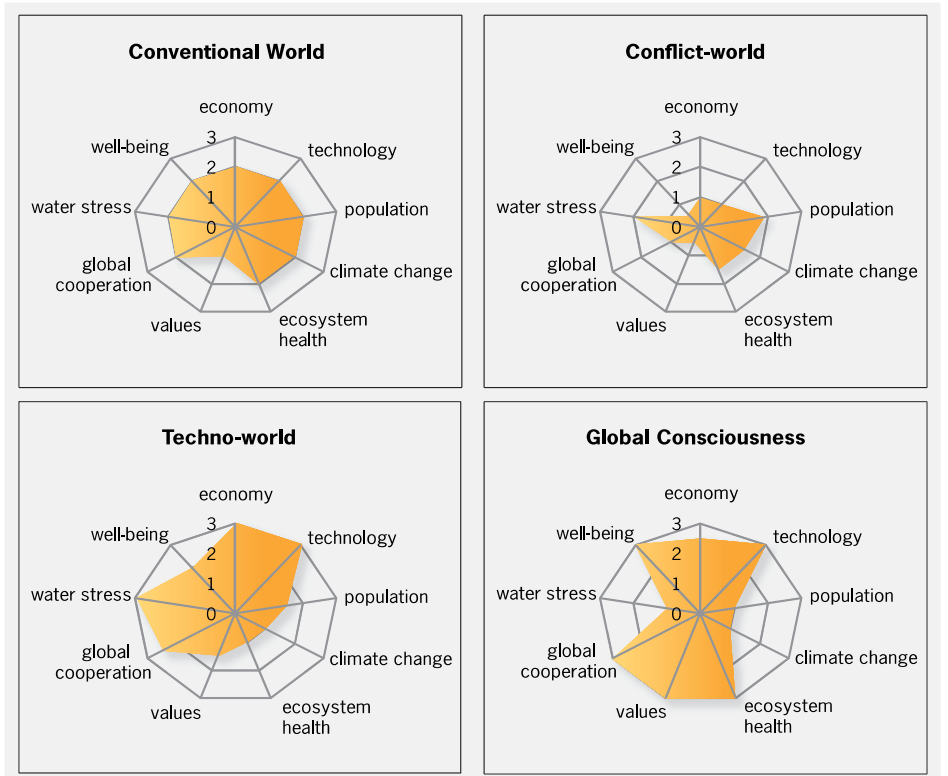
TechnoGarden



Adapting Mosaic

Environmental policy *proactive*

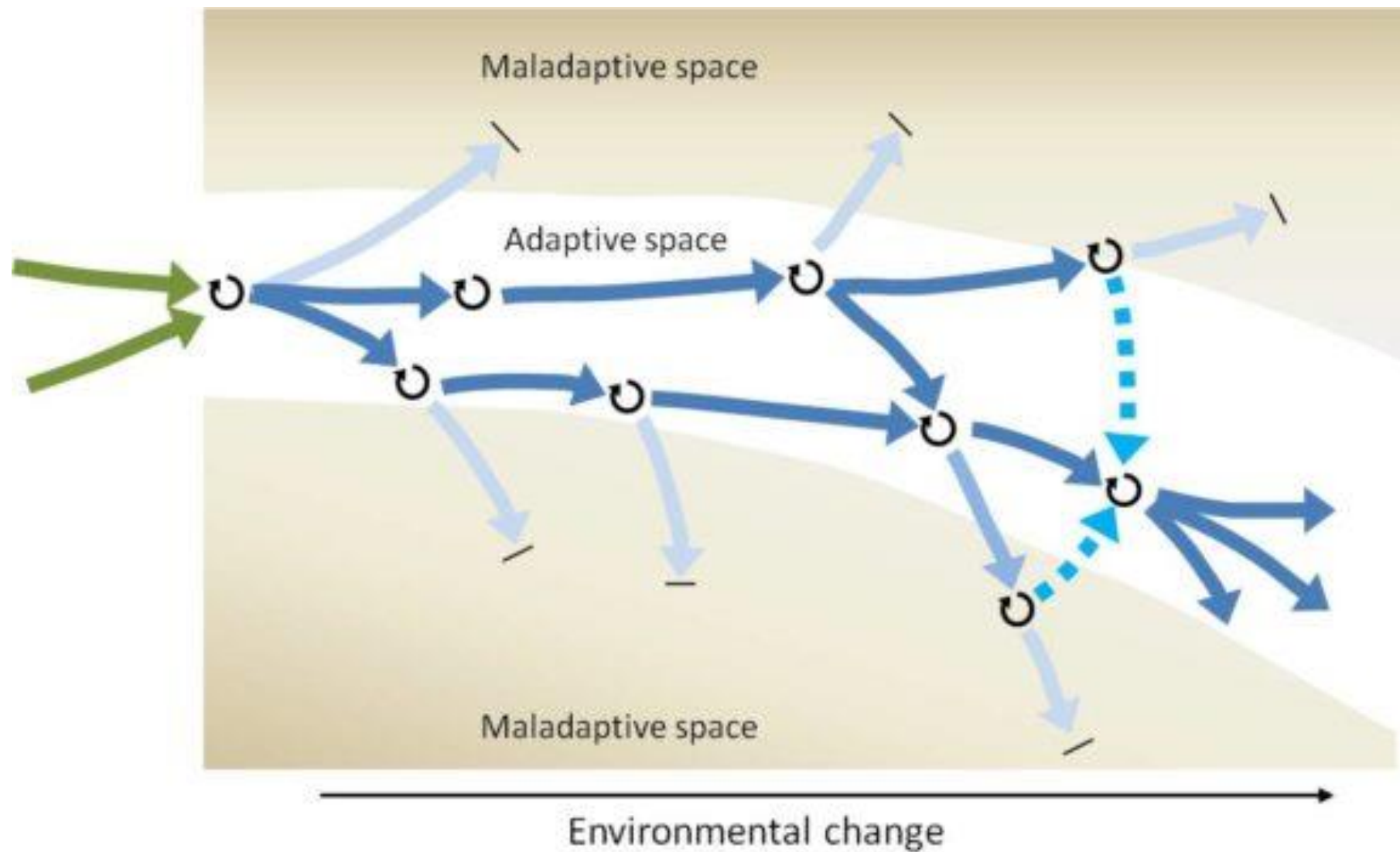
MILLENNIUM  
ASSESSMENT

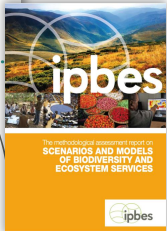
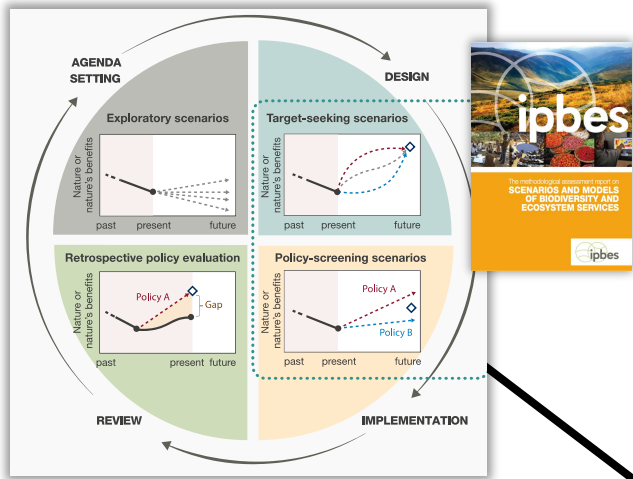


GLOBAL WATER FUTURES



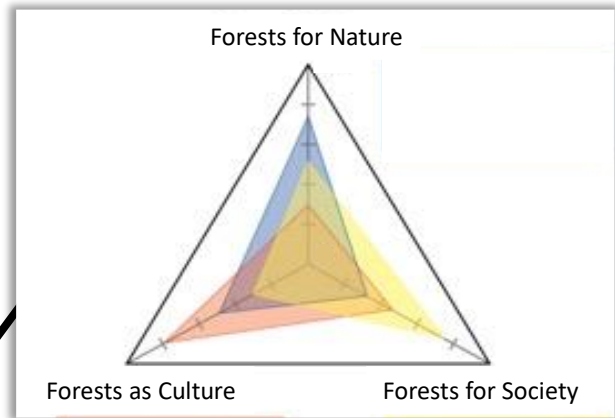
# Pathways





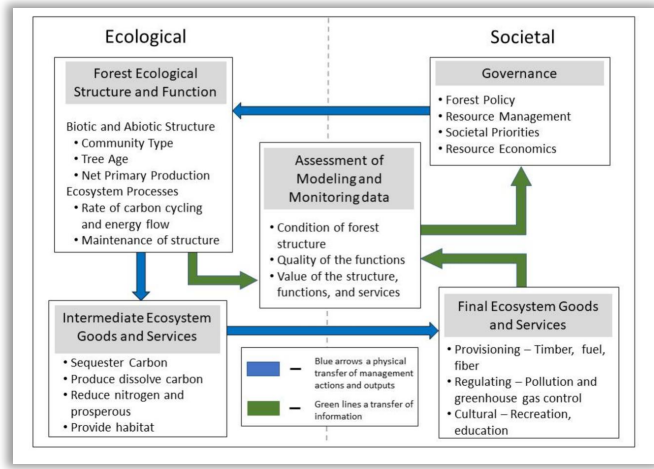
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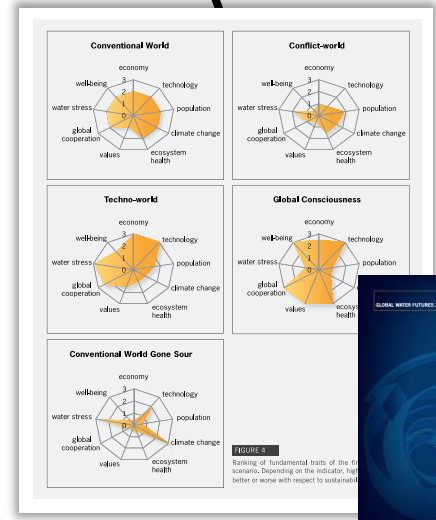
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