



ipcc

INTERGOVERNMENTAL PANEL ON climate change



AR5: Overview and Structure of the WG III Contribution

Scoping Meeting for the Synthesis Report (SYR)

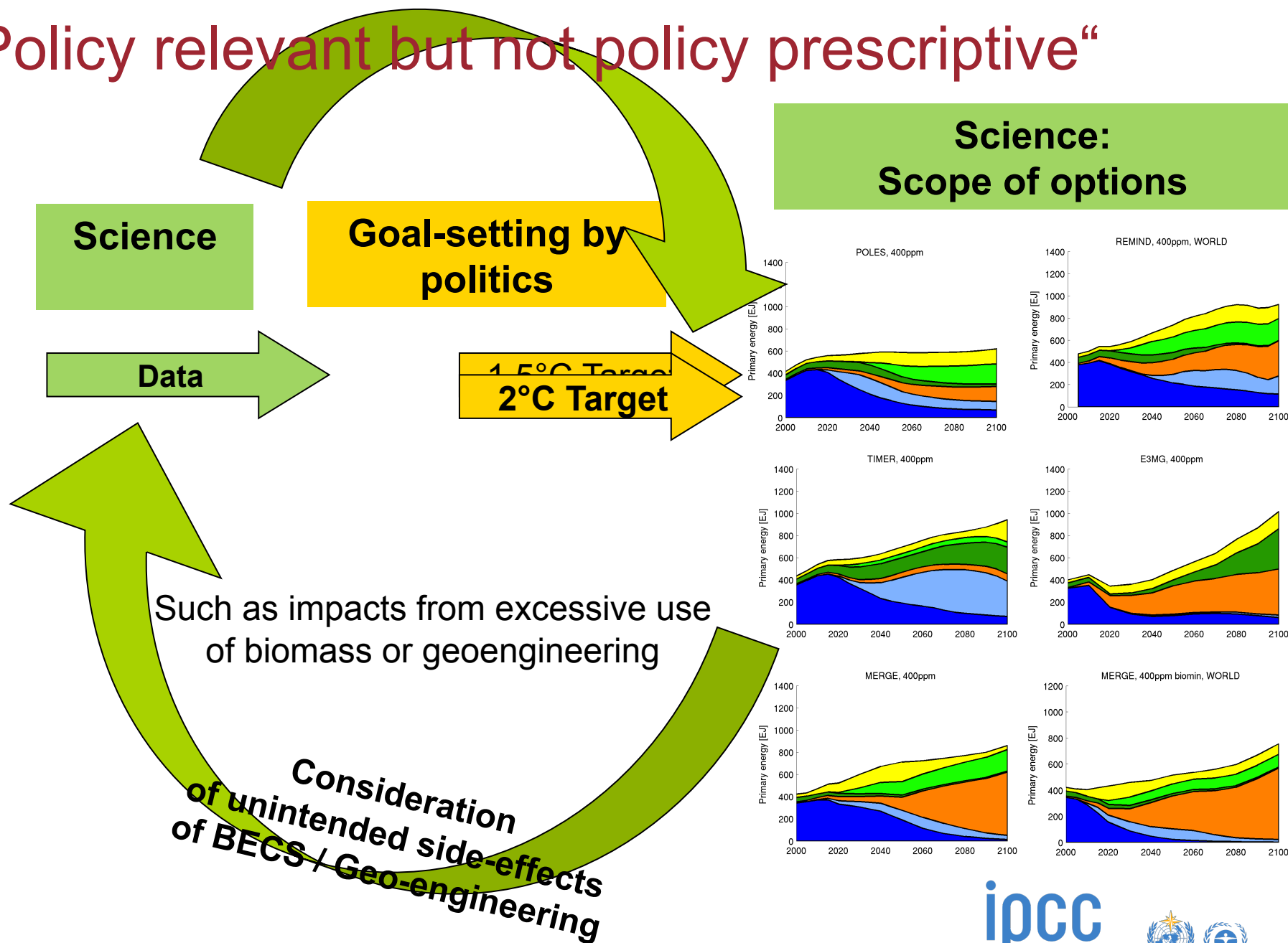
25-27 August 2010, Liege, Belgium

Prof. Dr. Ottmar Edenhofer

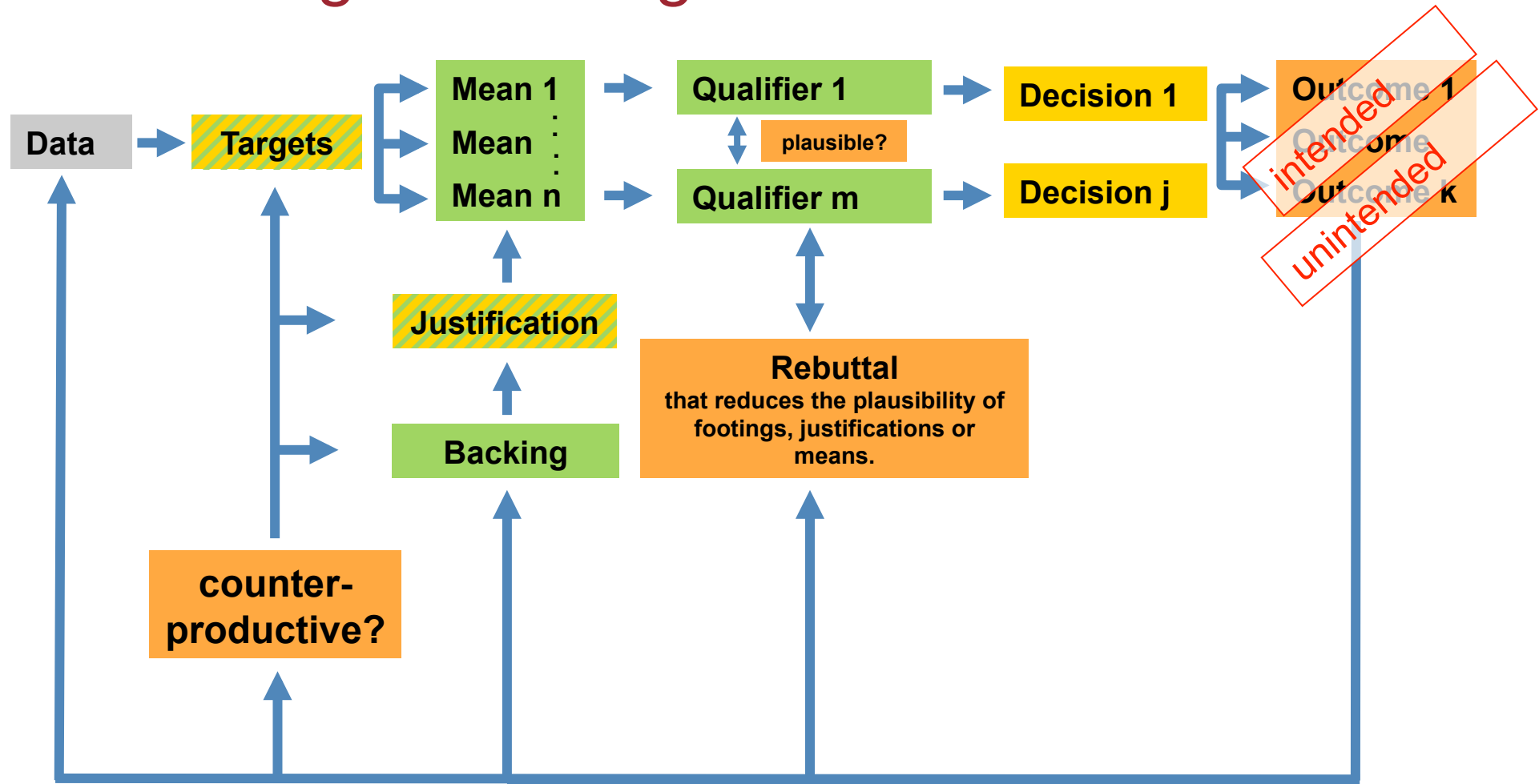
Christoph von Stechow



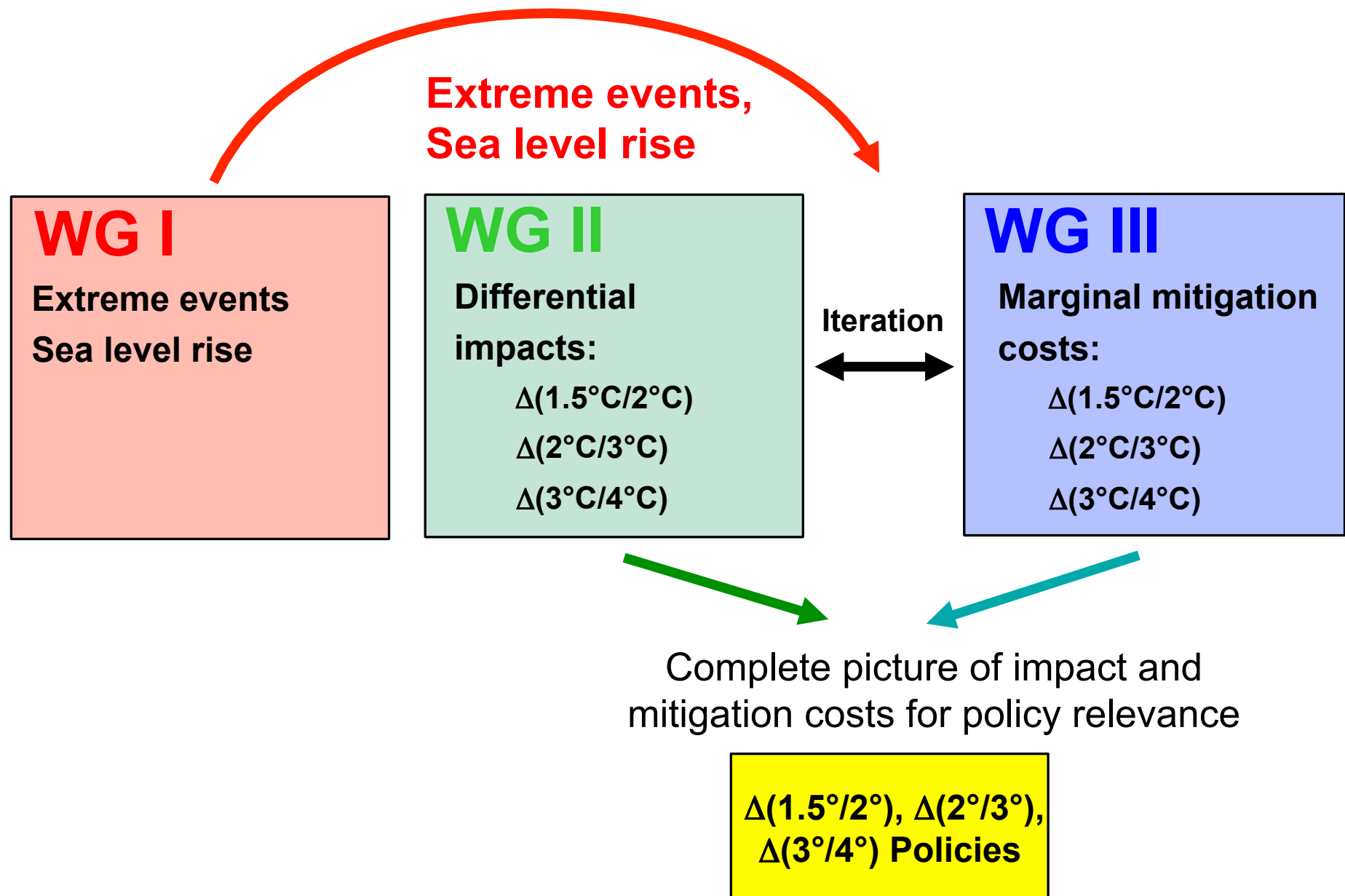
“Policy relevant but not policy prescriptive”



The Pragmatic-Enlightened Model



Implications for the Scenario Process

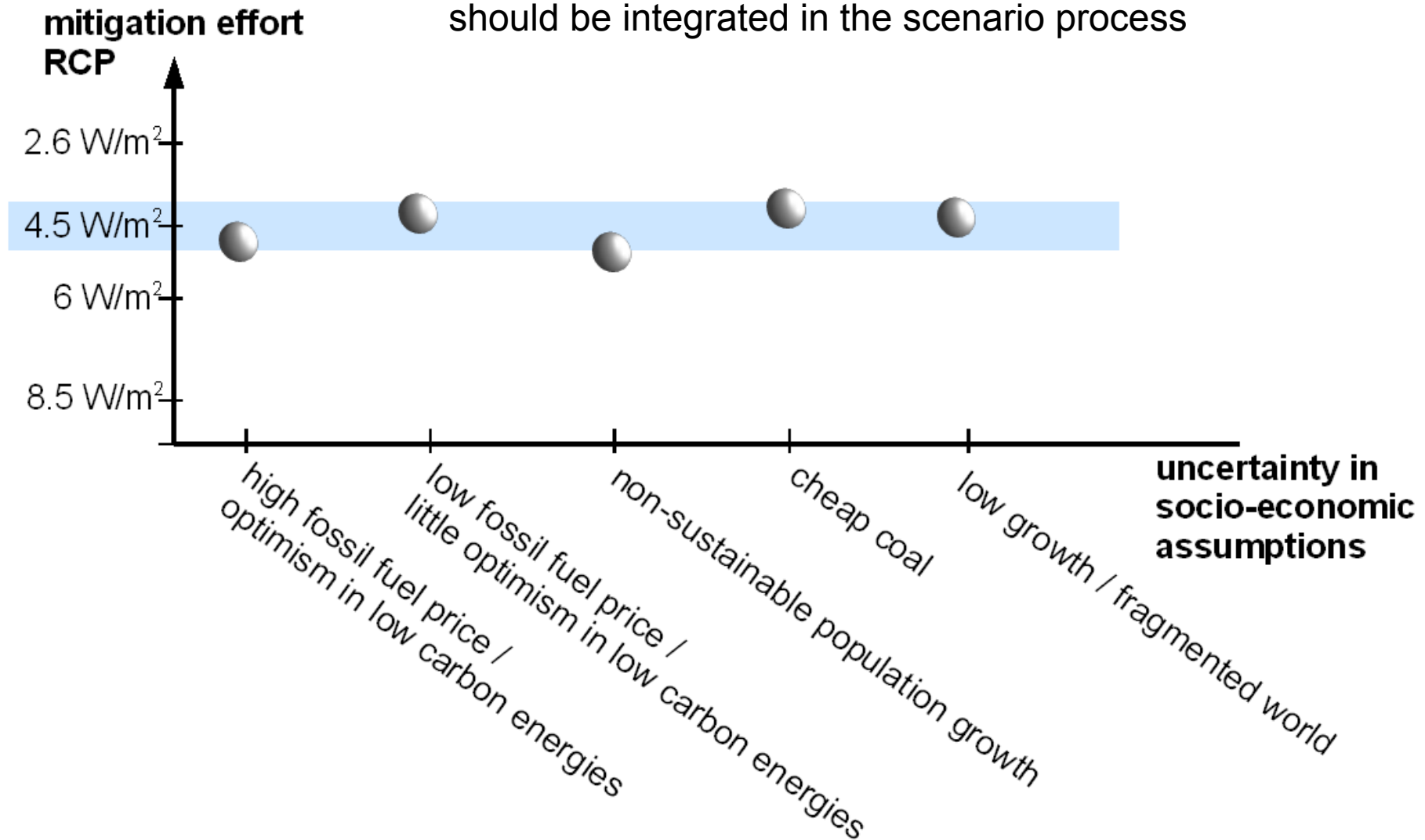


The Research Challenge

- Low Stabilisation Scenarios which identify the technical and institutional requirements
- Exploring the costs, benefits and risks of different mitigation options
- Identifying differential impacts and develop a classification of risks comprising tipping points in the natural environment and also in society.
- Second best: More realistic policy cases through consideration of effects of fragmented carbon markets & technology failures

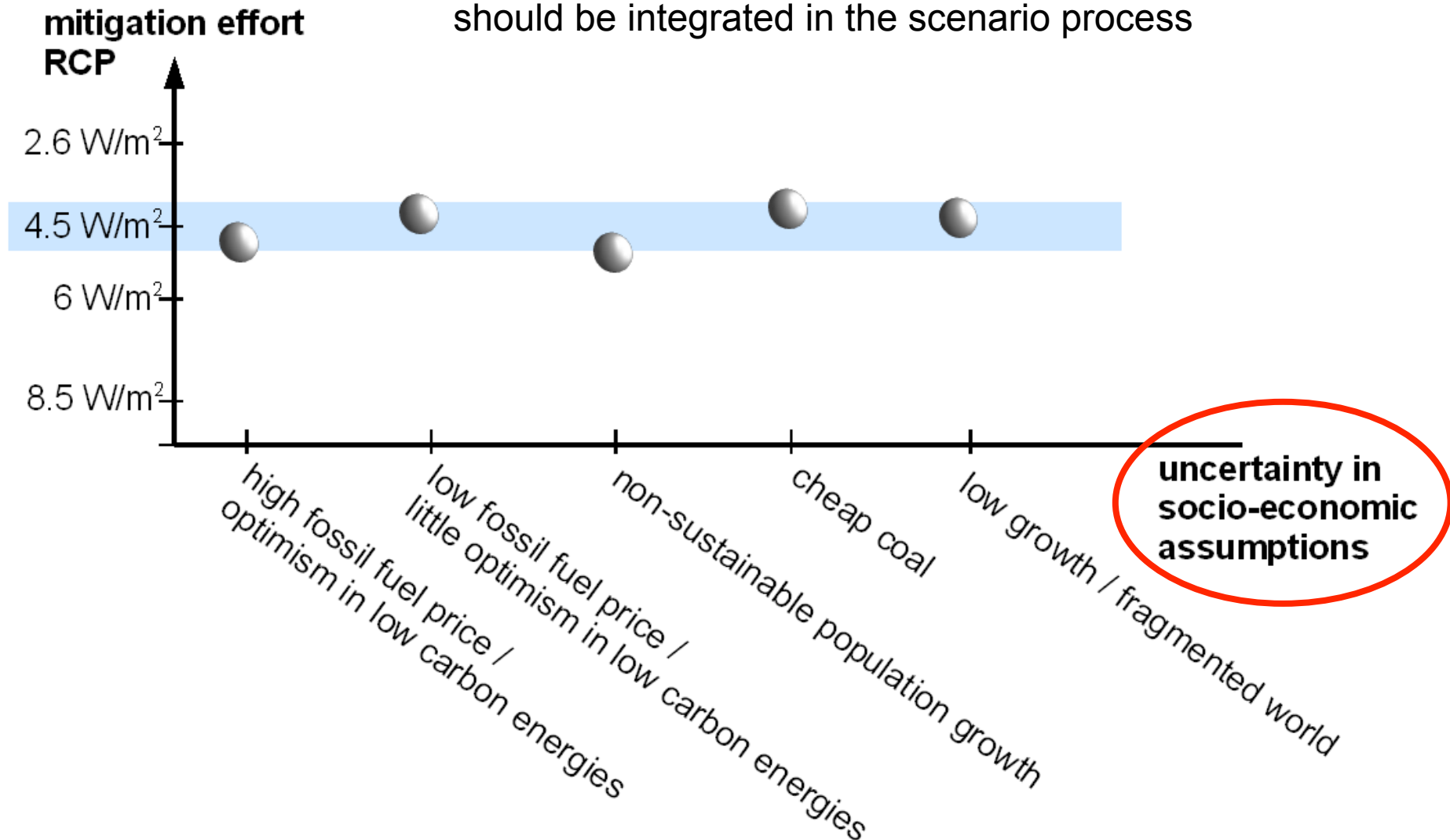
Assess Scenarios in AR5

Idea for the conceptualization of scenarios, which should be integrated in the scenario process



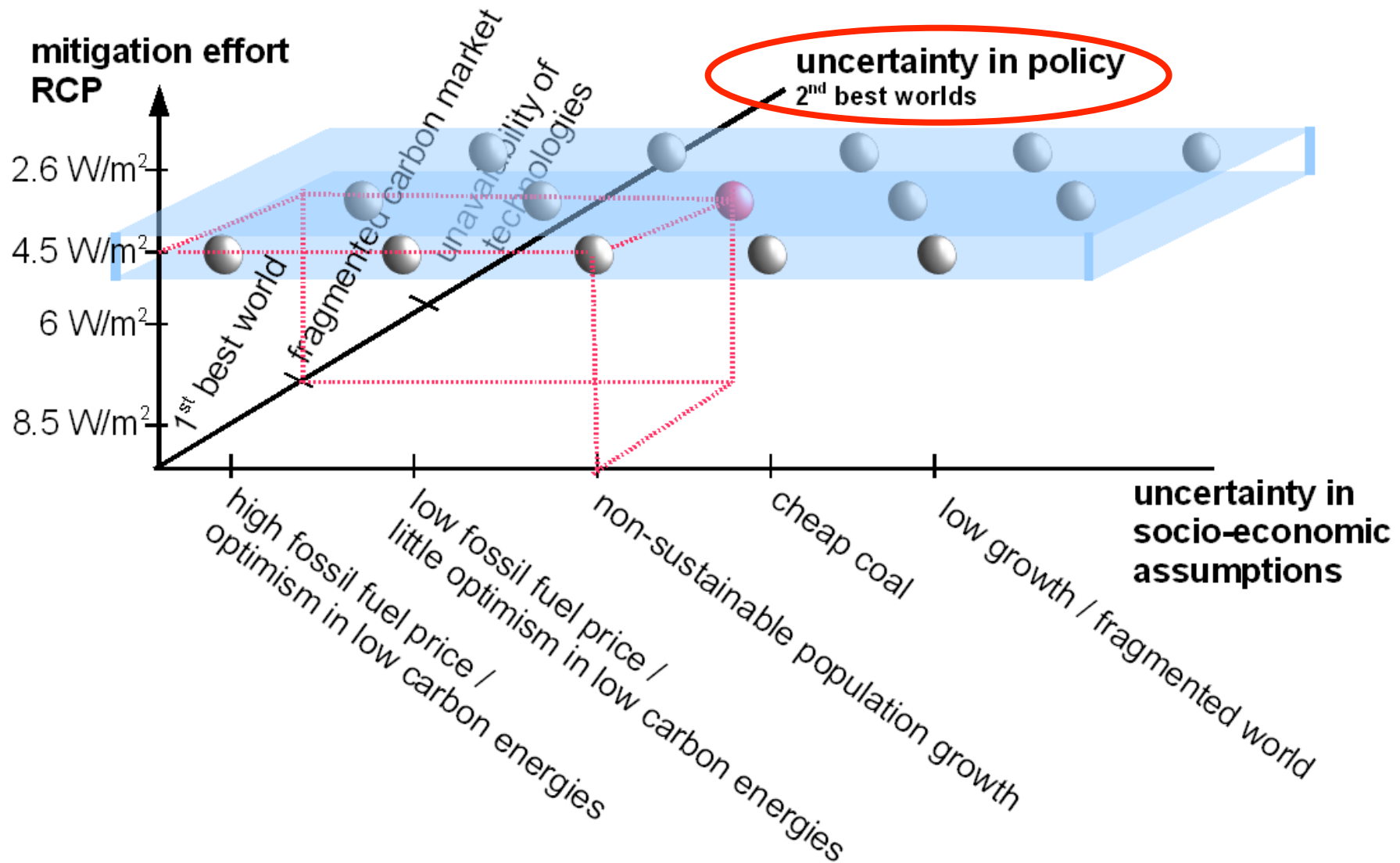
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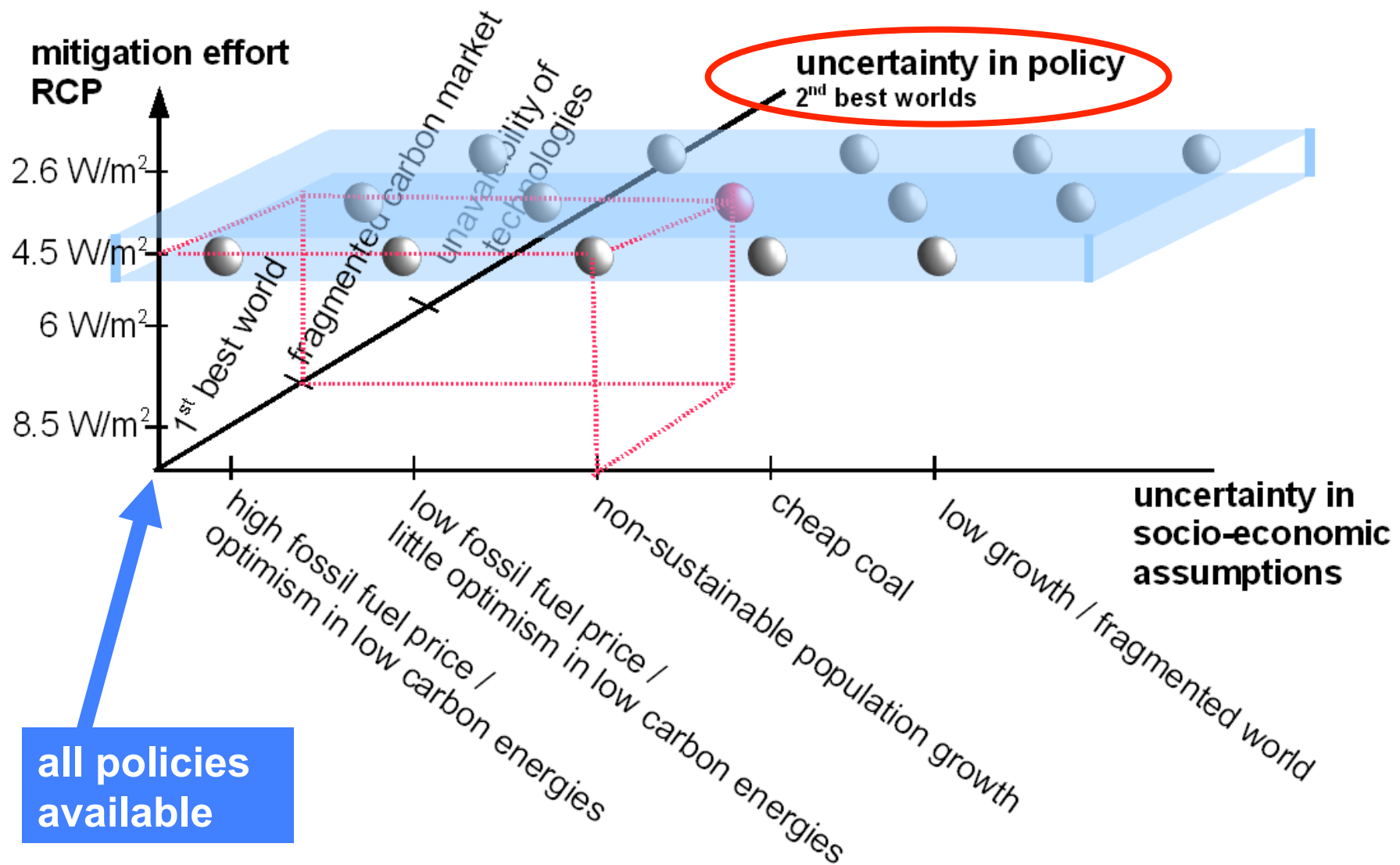


Socio-economic assumptions should be self-consistent

Assess Scenarios in AR5



Assess Scenarios in AR5



The Parts of the WG III AR5 Outline

Part I
Introduction

Part II
Framing Issues

Part III
Pathways for Mitigating Climate Change

Part IV
Assessment of Policies, Institutions and Finance

AR5 WG III Outline

I: Introduction

1. Introductory Chapter

II: Framing Issues

- 2. Integrated Risk and Uncertainty Assessment of Climate Change Response Policies**
- 3. Social, Economic and Ethical Concepts and Methods**
- 4. Sustainable Development and Equity**

III: Pathways for Mitigating Climate Change

- 5. Drivers, Trends and Mitigation**
- 6. Assessing Transformation Pathways**
- 7. Energy Systems**
- 8. Transport**
- 9. Buildings**
- 10. Industry**
- 11. Agriculture, Forestry and Other Land Use (AFOLU)**
- 12. Human Settlements, Infrastructure and Spatial Planning**

IV: Assessment of Policies, Institutions and Finance

- 13. International Cooperation: Agreements and Instruments**
- 14. Regional Development and Cooperation**
- 15. National and Sub-national Policies and Institutions**
- 16. Cross-cutting Investment and Finance Issues**

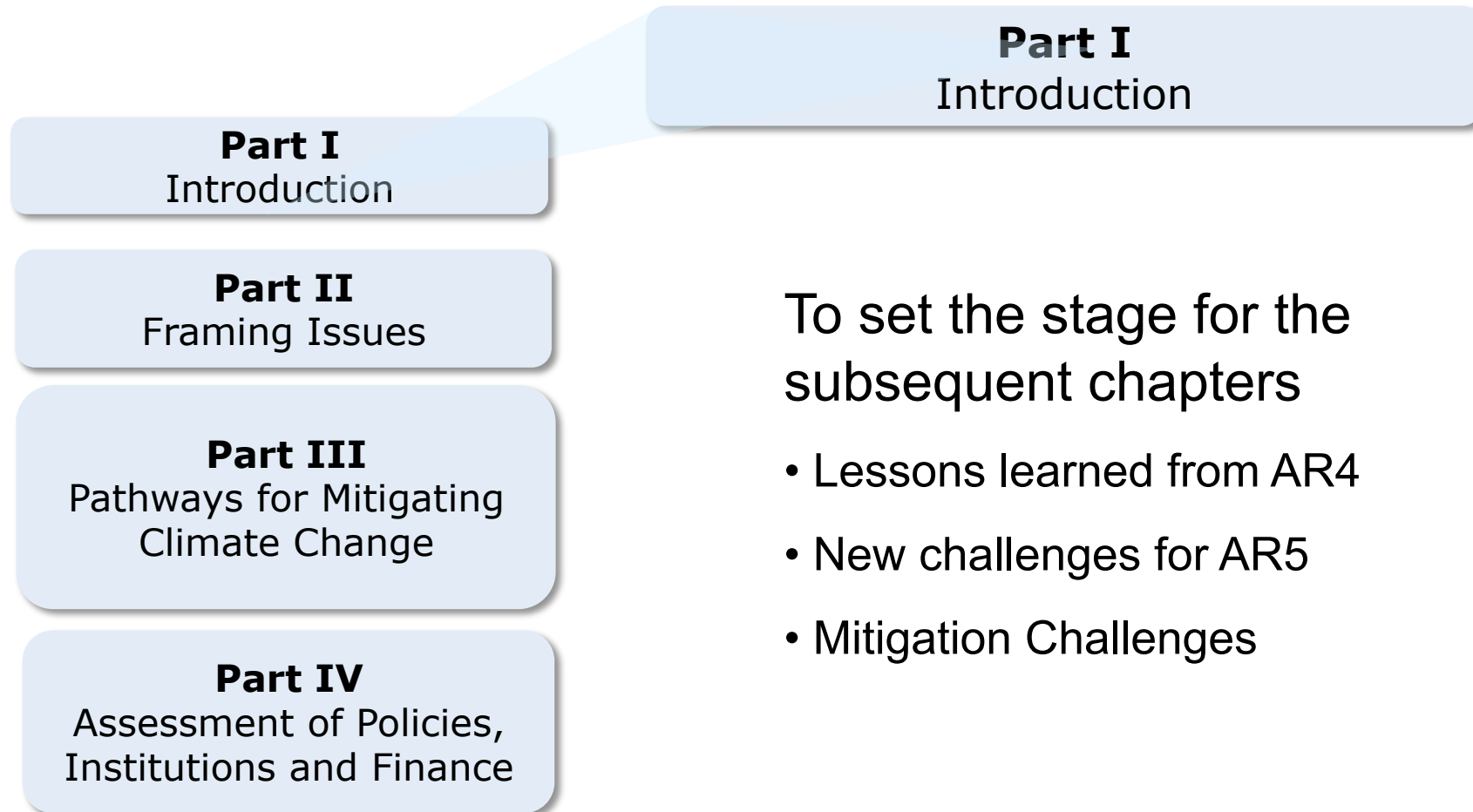
SYR outline – iii. Response

Solution space	1
Risk Management & response (incl. Art 2)	2, 6
Effect of existing climate-related policies	13-15
Adaptation options	4, 7-12, 15
Mitigation options	overarching
Co-benefits & externalities	3, 5-12
Bottom-up & top-down Integration	6, 7-10
GHG metrics	3, 5
Multi-metric valuations	3, 5
Reduction of scientific uncertainty	overarching
Investment in R&D	3, 5, 6, 15, 16
Geoengineering	5
Equity & sustainable development dimensions	3, 4, 6, 14
Interactions: adaptation, mitigation & development	4, 7-12, 14, 15, 16

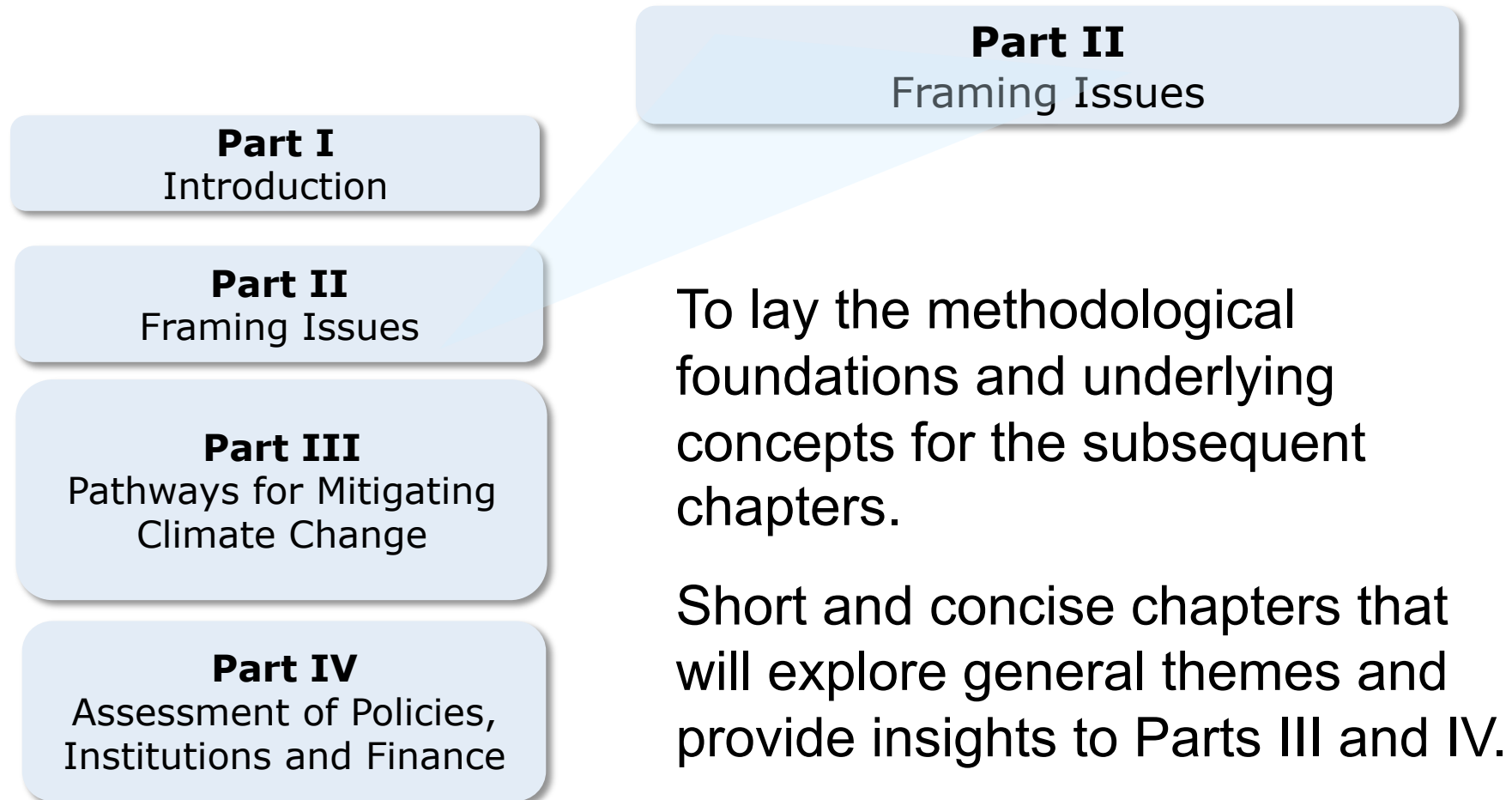
SYR outline – iv. Transition & Transformation

Pace and scale (dynamics)	6
Equity dimensions, time & space scales	3, 4
Development pathways & global transition	4, 6, 14
Behavioural & societal changes	4, 5
Benefits & costs (including co-benefits)	3, 5-12
Governance and institutional arrangements	13-16
Investment needs	6, 13-15, 16 ,
Development issues	4, 6, 14 , 15

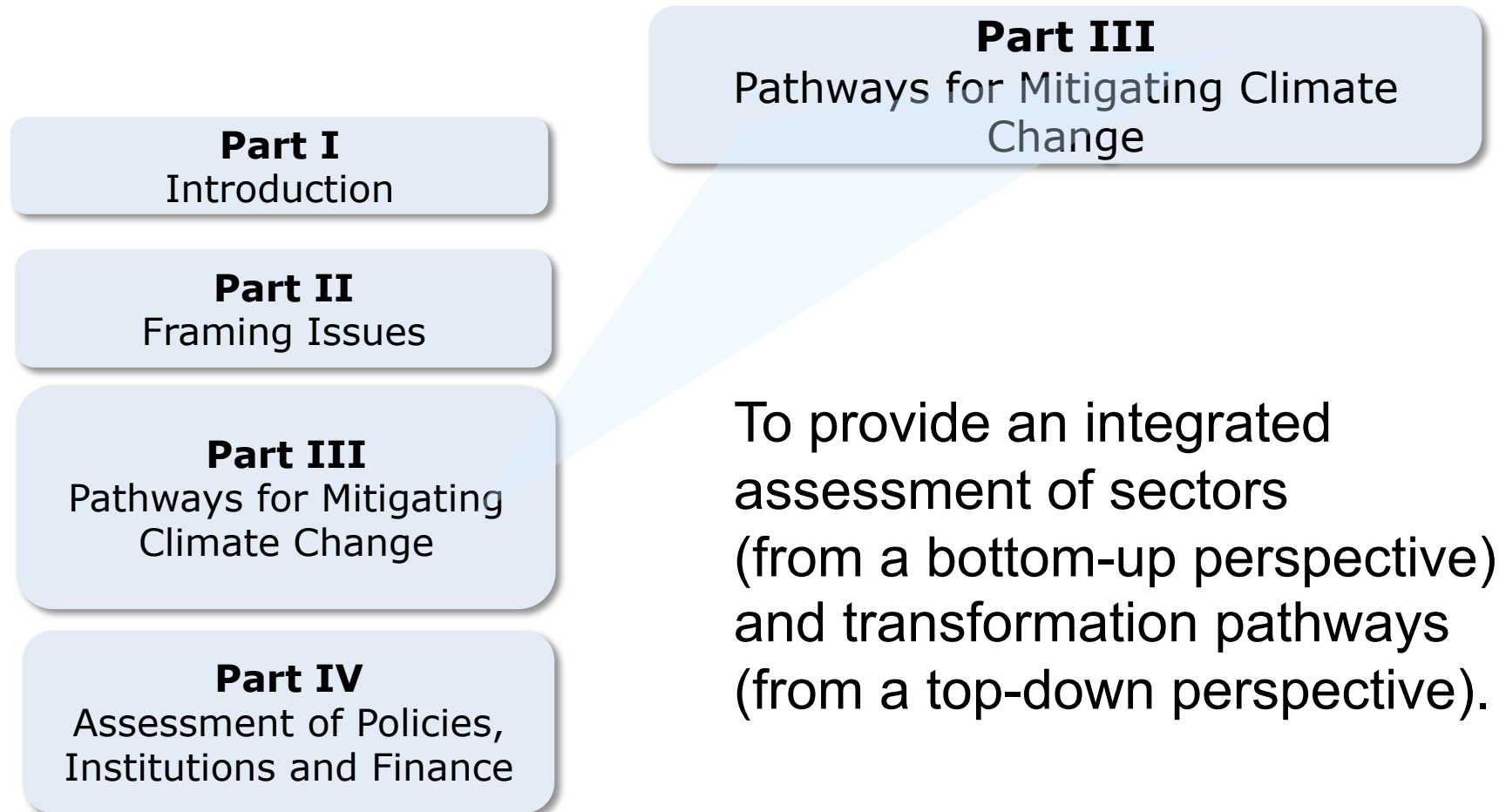
The Philosophy of the WG III AR5 Outline



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Chp 6: Assessing Transformation Pathways

Scenarios are the backbone of consistency between WG II and WG III.

IV: Assessment of Policies, Institutions and Finance

13. International Cooperation: Agreements and Instruments

14. Regional Development and Cooperation

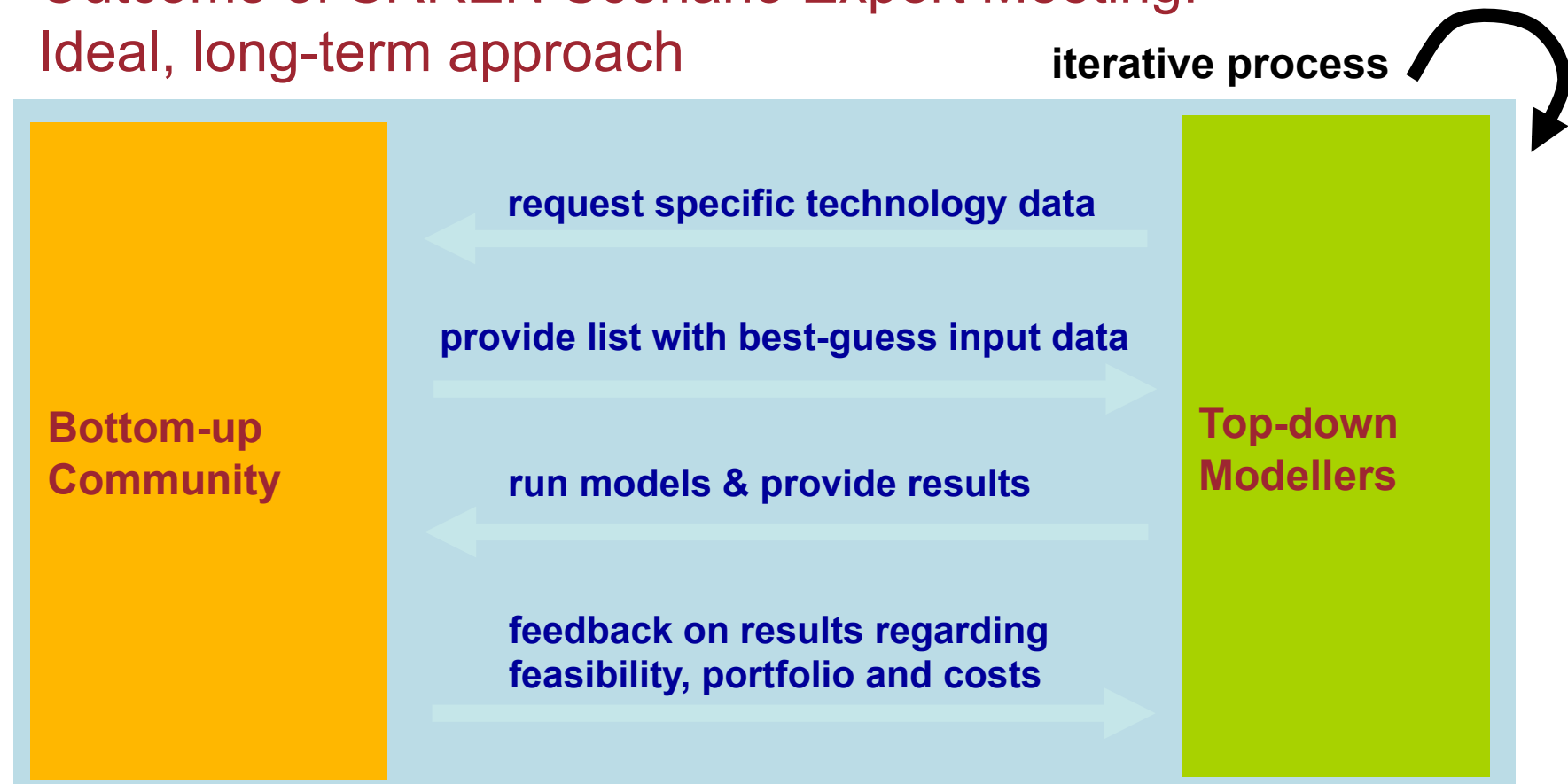
15. National and Sub-national Policies and Institutions

16. Cross-cutting Investment and Finance Issues

AR5 Run-up:

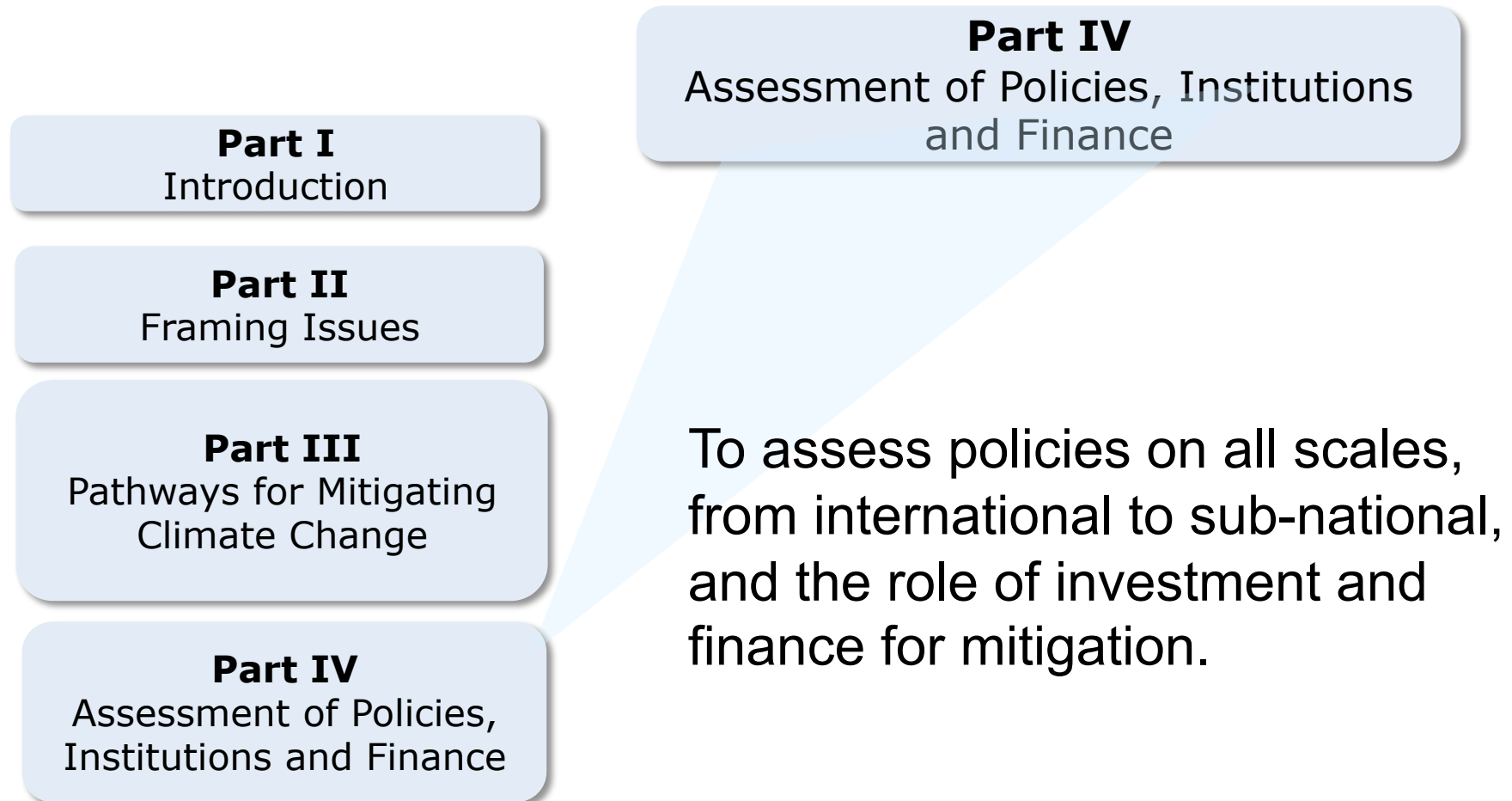
Bottom-up – Top-down Interaction

Outcome of SRREN Scenario Expert Meeting:
Ideal, long-term approach

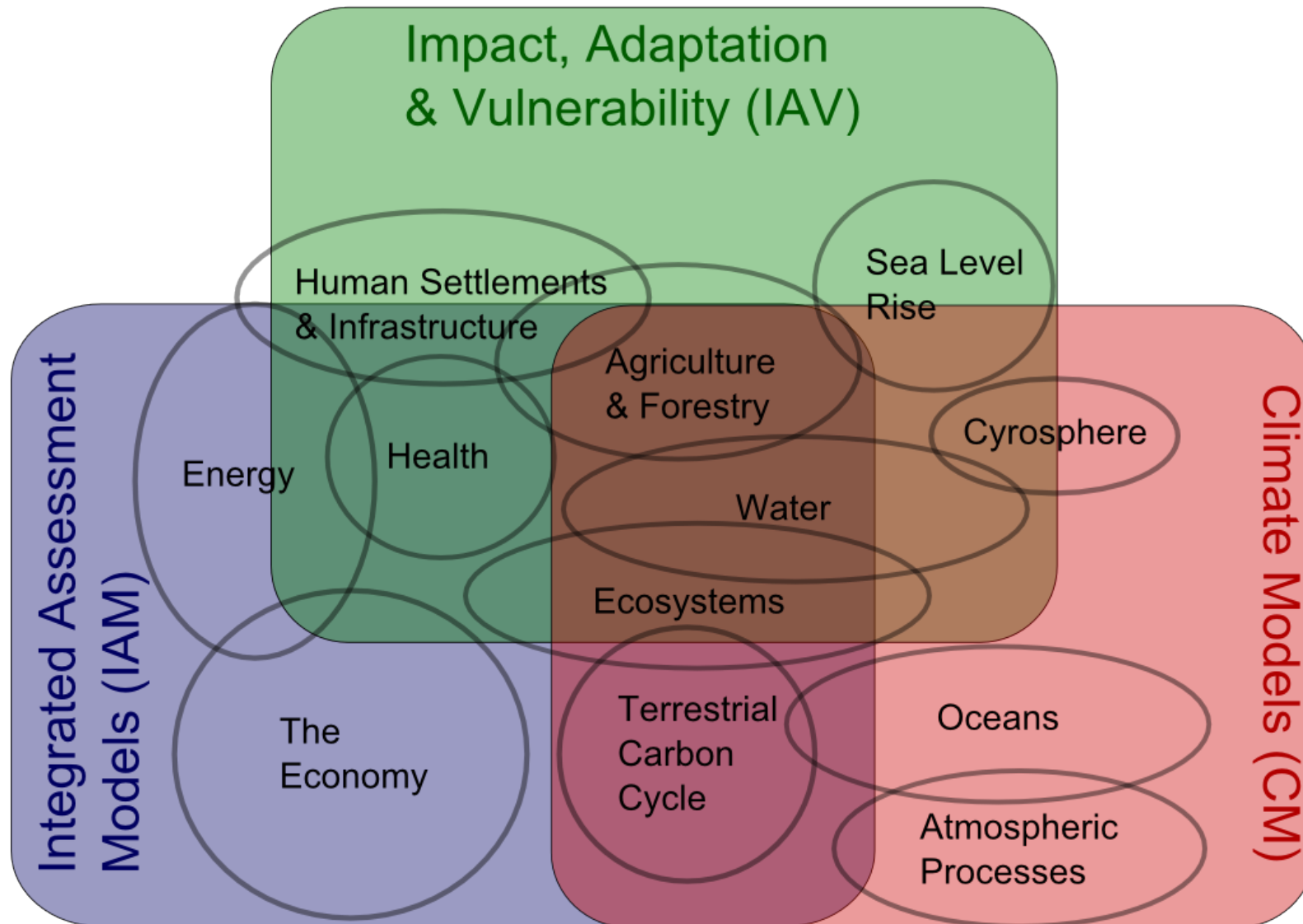


Goal: More realistic representation of policy space.

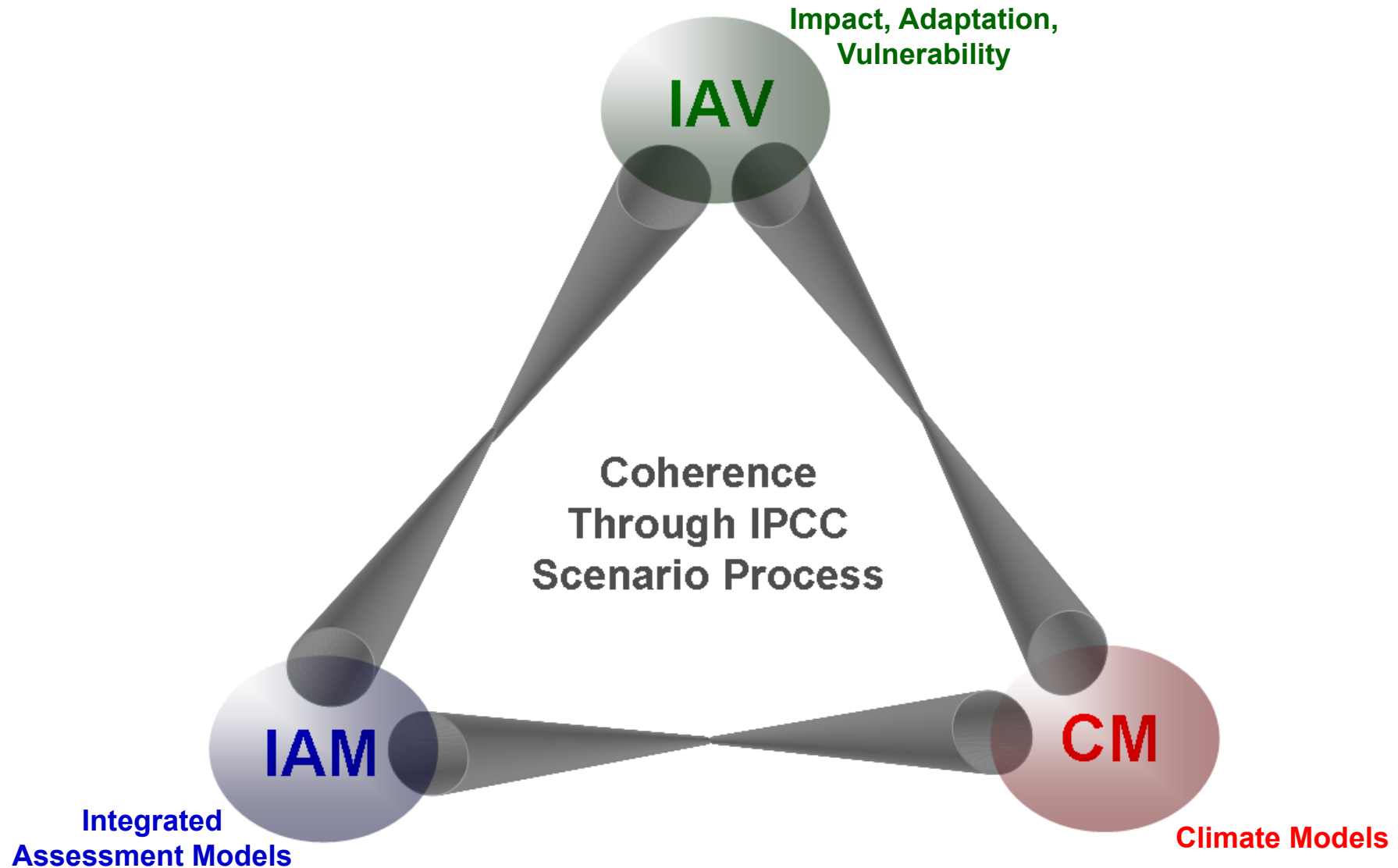
The Philosophy of the WG III AR5 Outline



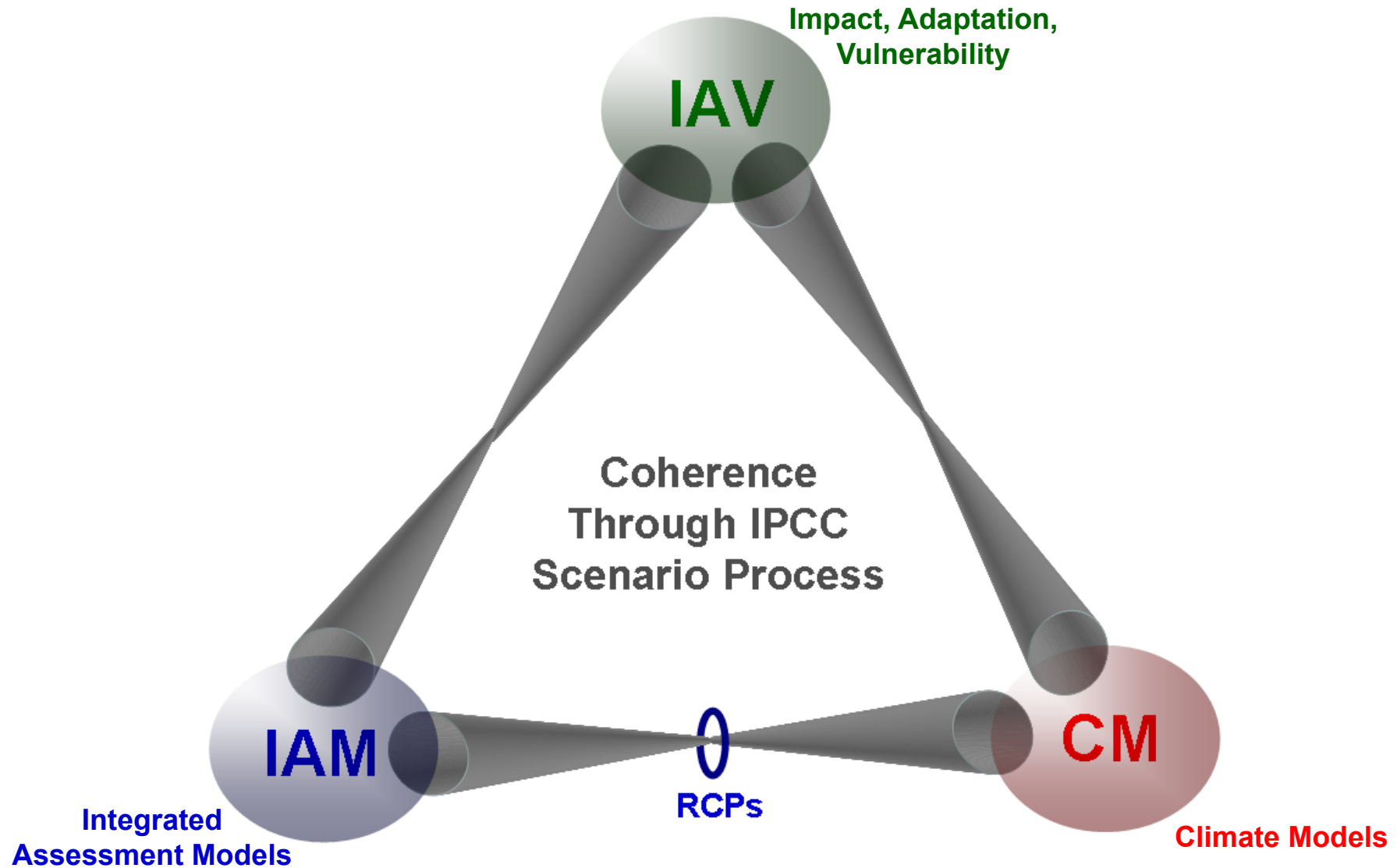
Assessment Communities



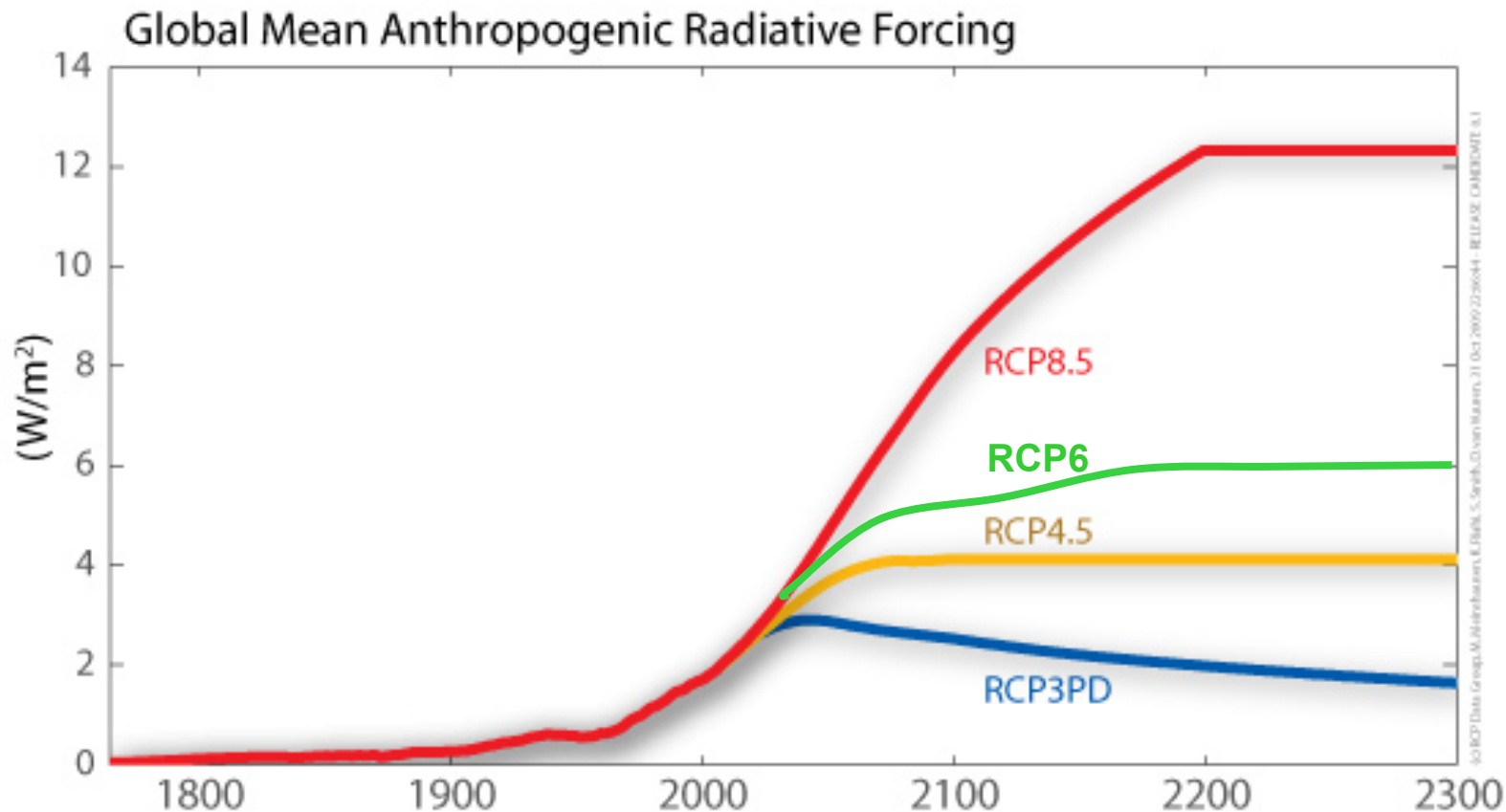
IPCC Scenario Process



IPCC Scenario Process



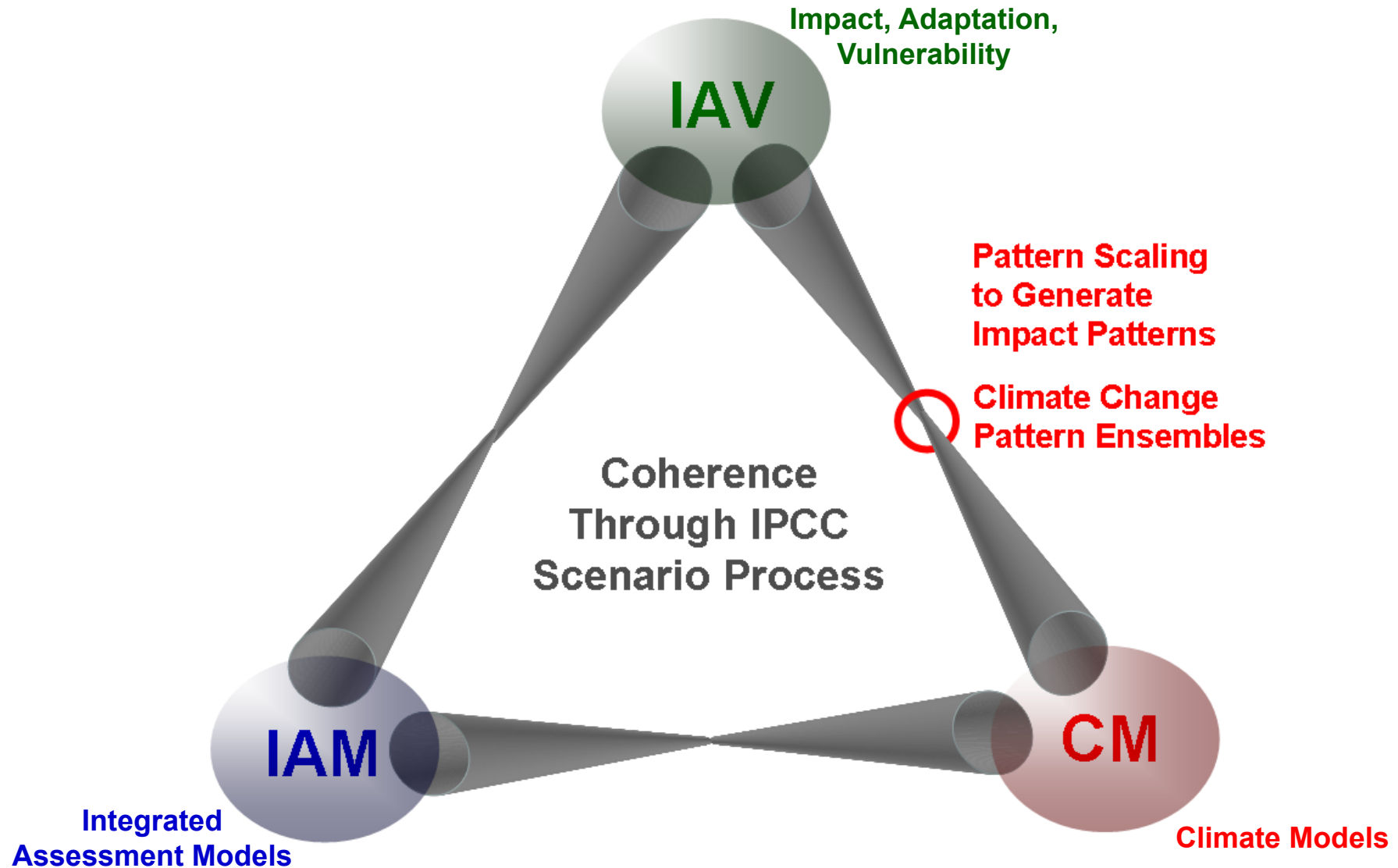
Representative Concentration Pathways (RCPs)



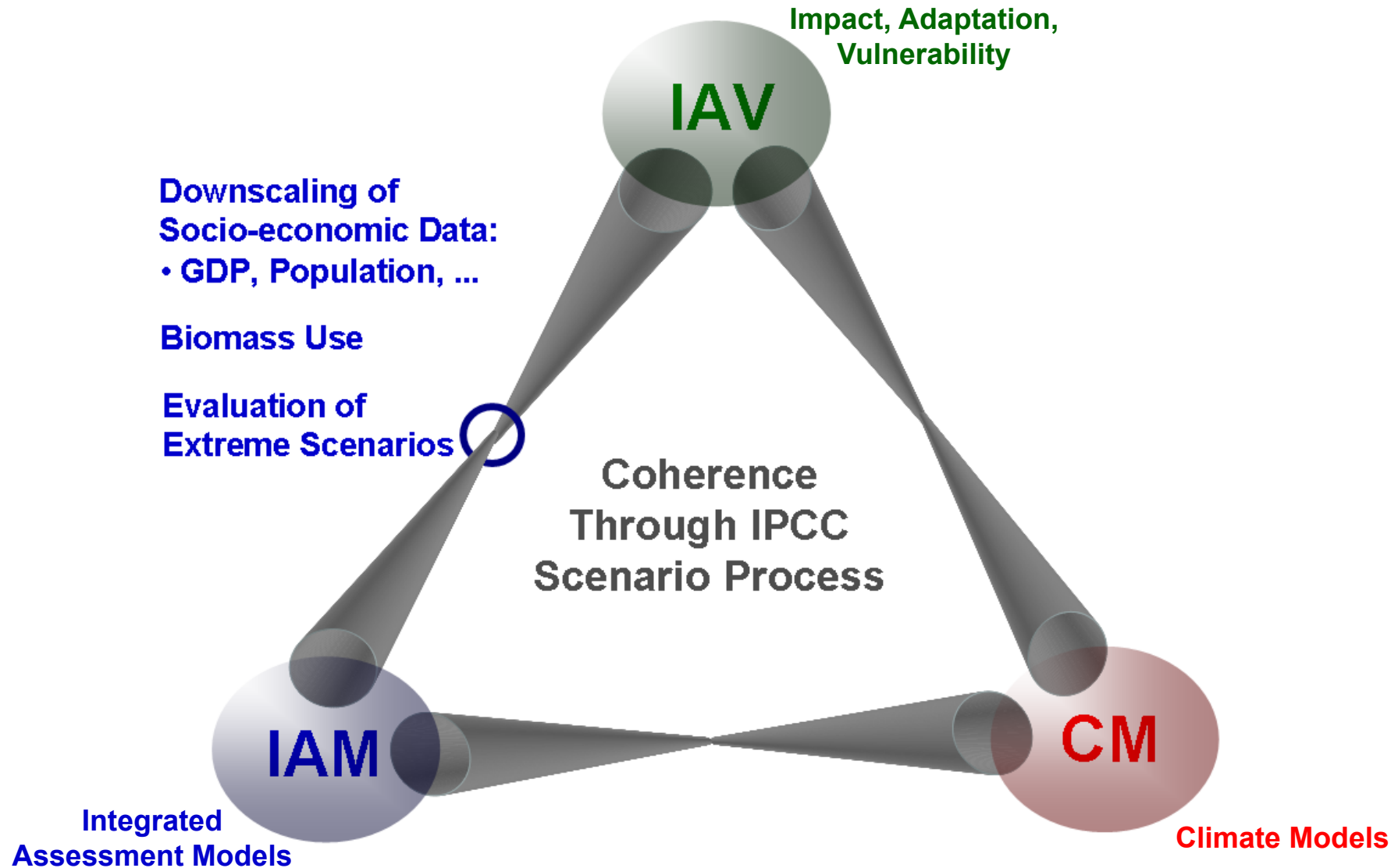
All Data available at

<http://www.pik-potsdam.de/~mmalte/rcps/>

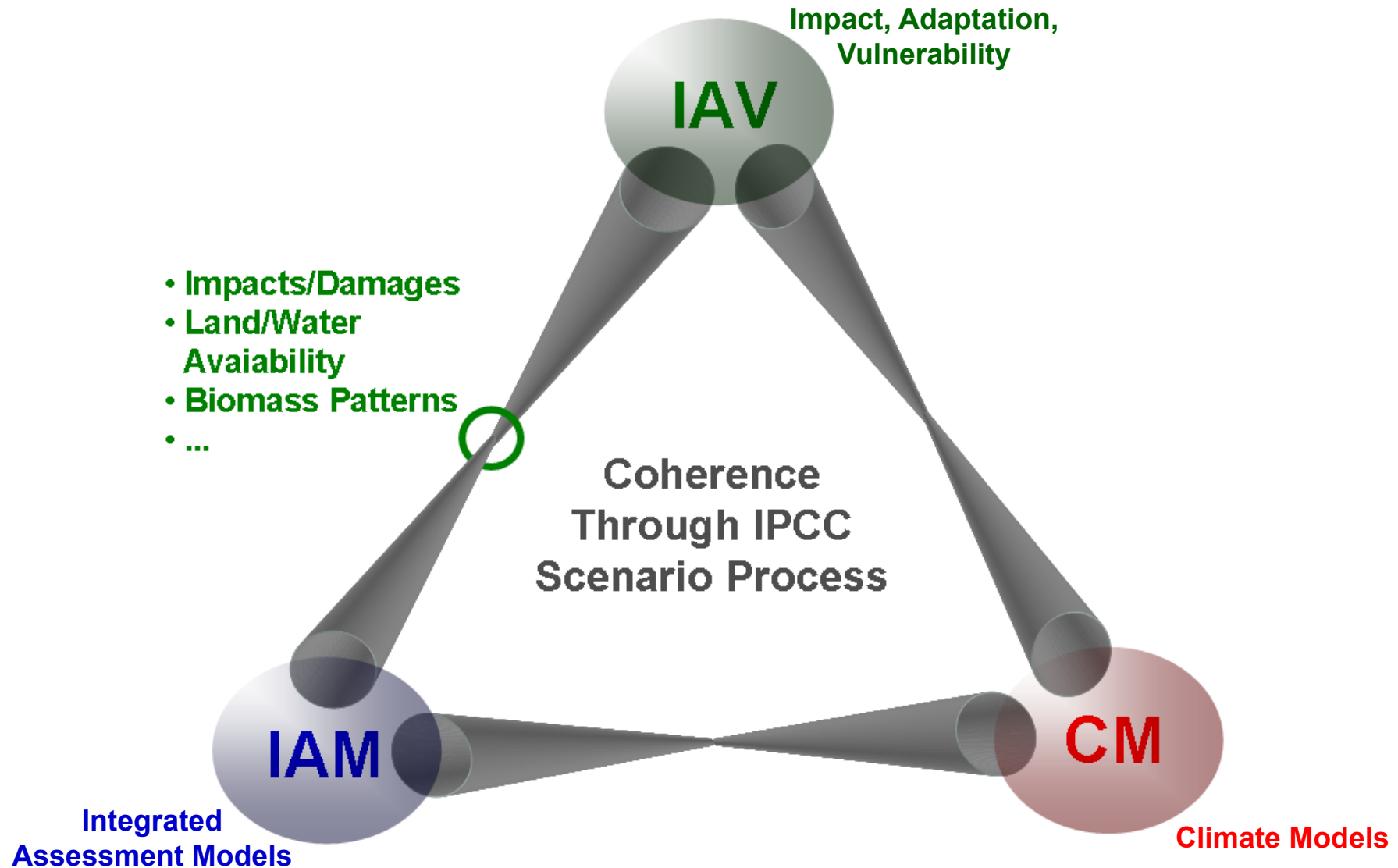
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Final Remark

The IPCC is the honest broker between experts and decision makers in business, politics and civil society.

The IPCC should be policy relevant without being policy prescriptive.