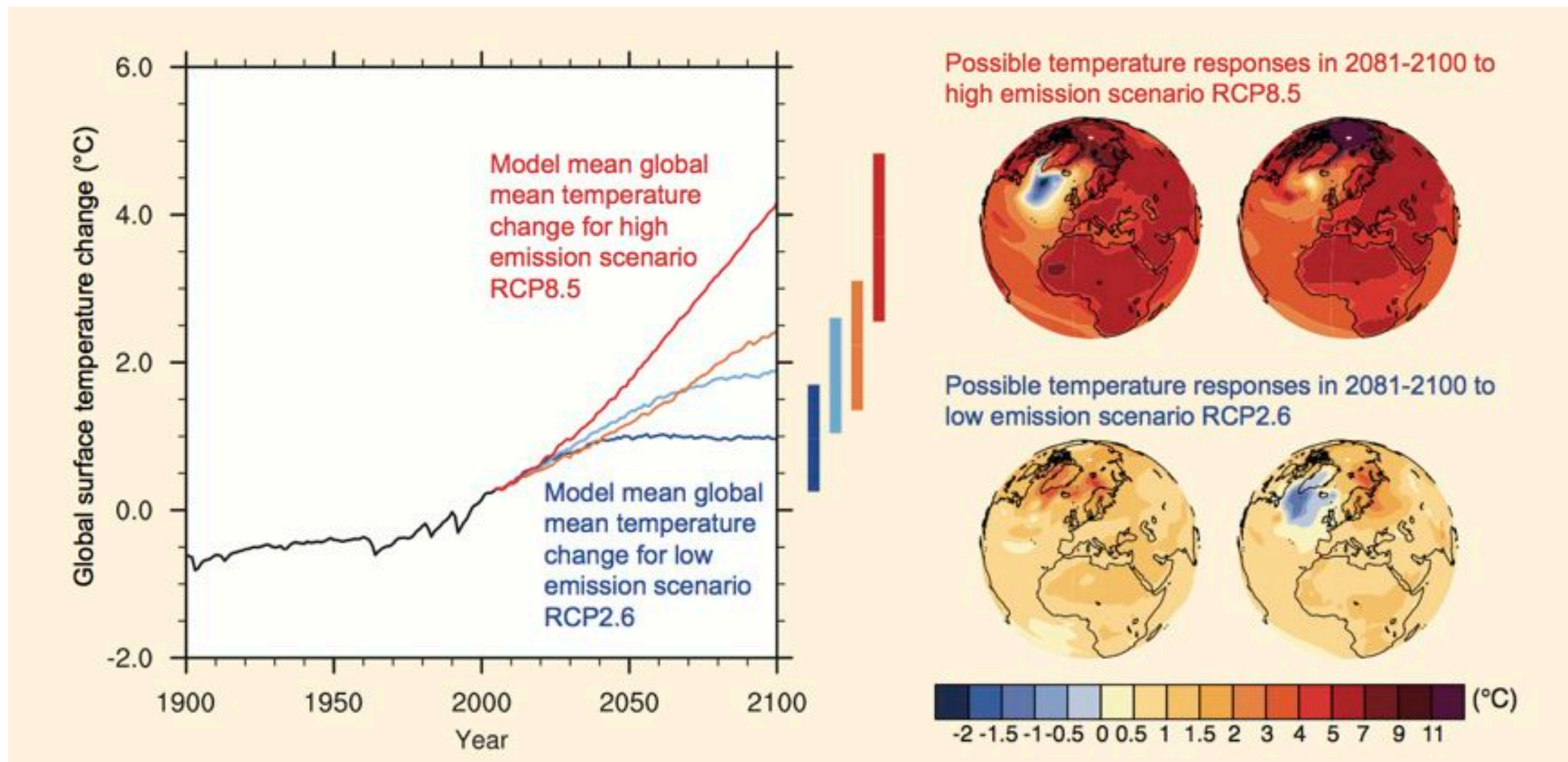


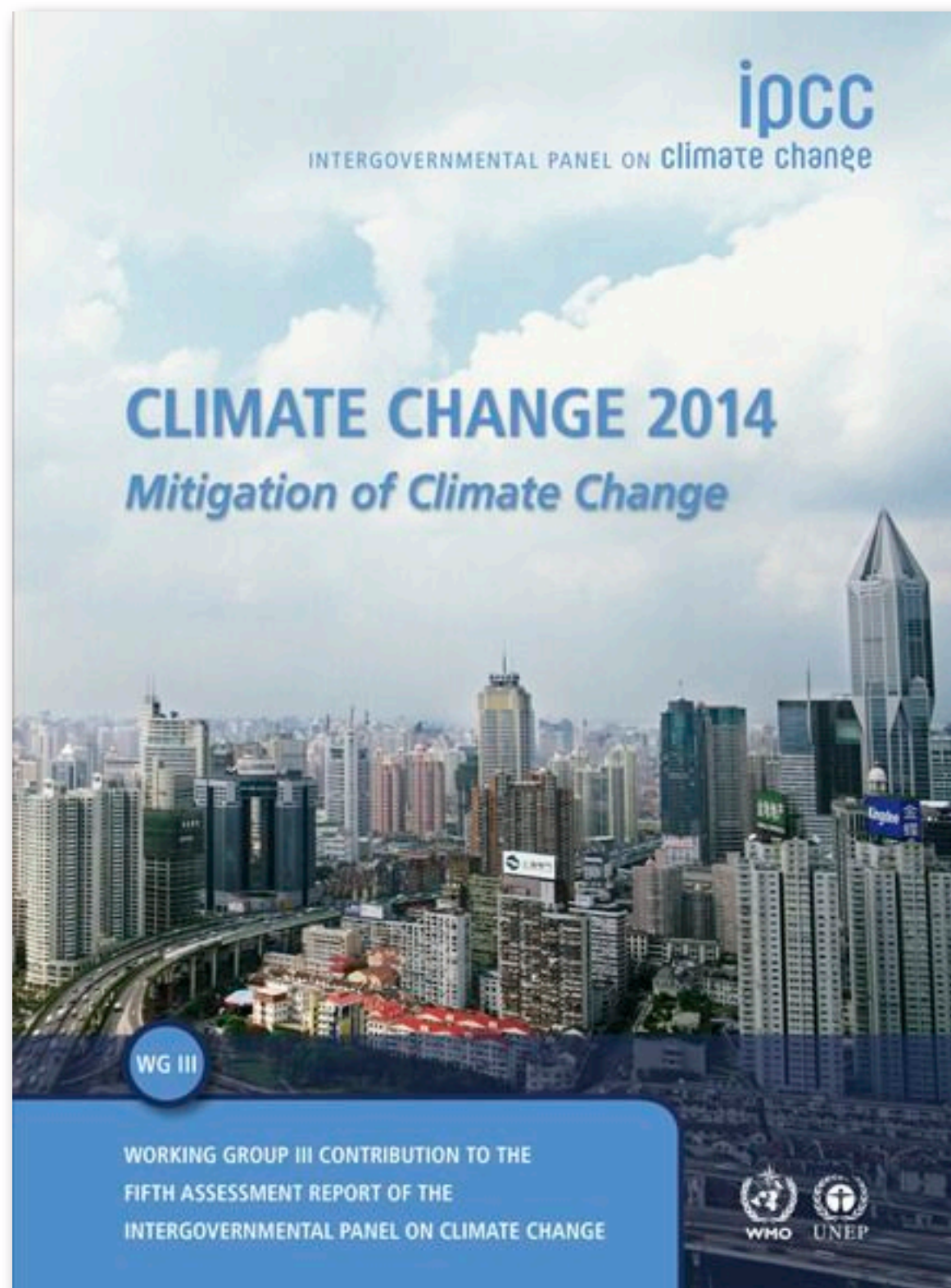
Framing the climate mitigation problem

Anthony Patt, Professor of Human-Environment Systems, ETH Zurich

Working Group III Lead Author: Chapter 2 and Summary for Policymakers



IPCC AR5 WGI, Ch12



Framing

1. Introduction
- 2. Risk and uncertainty**
3. Analytic frameworks
4. Sustainable development

Big picture

5. Current trends & drivers
6. Future scenarios

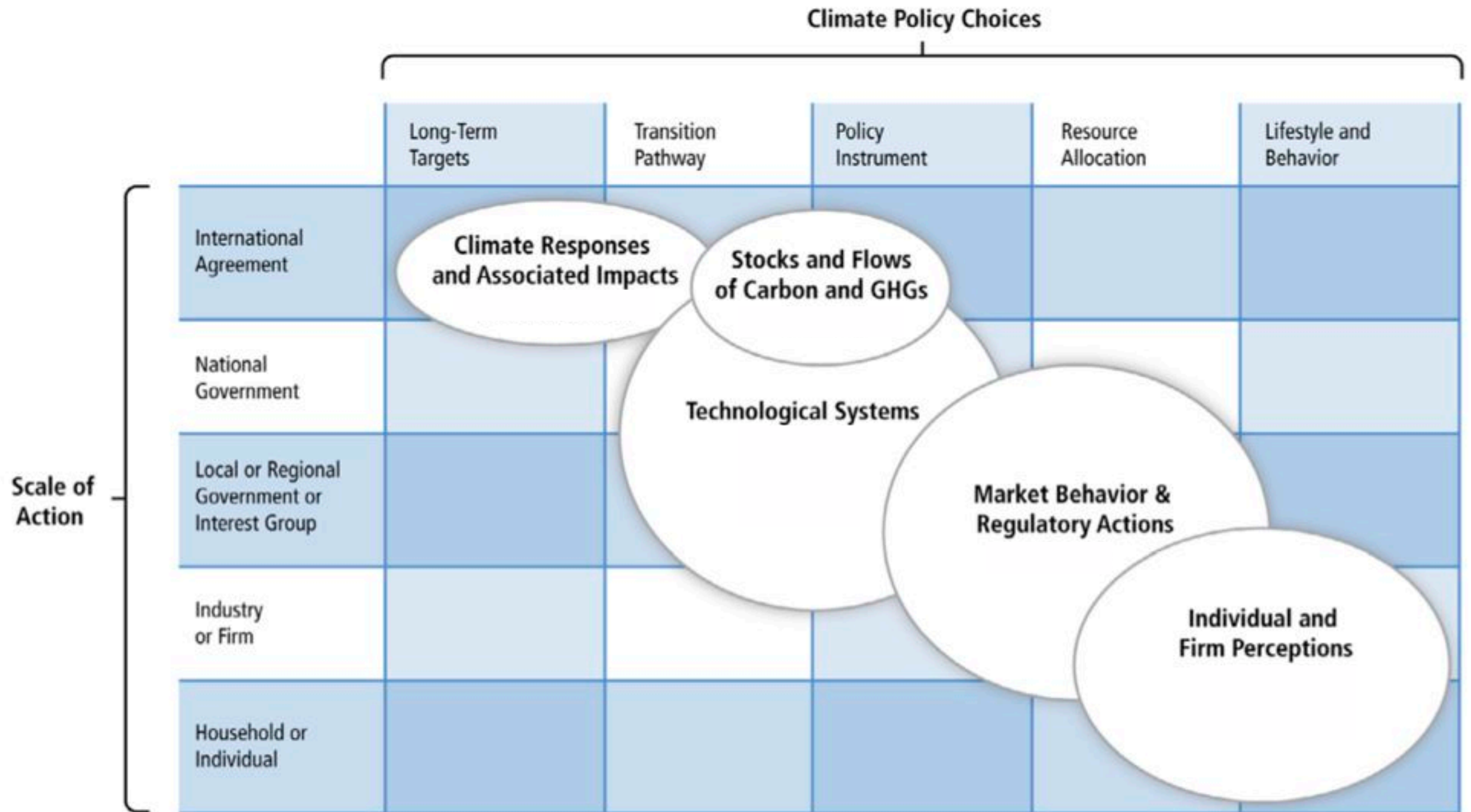
Sectors

7. Energy systems
8. Transport
9. Buildings
10. Industry
11. Land-use
12. Cities

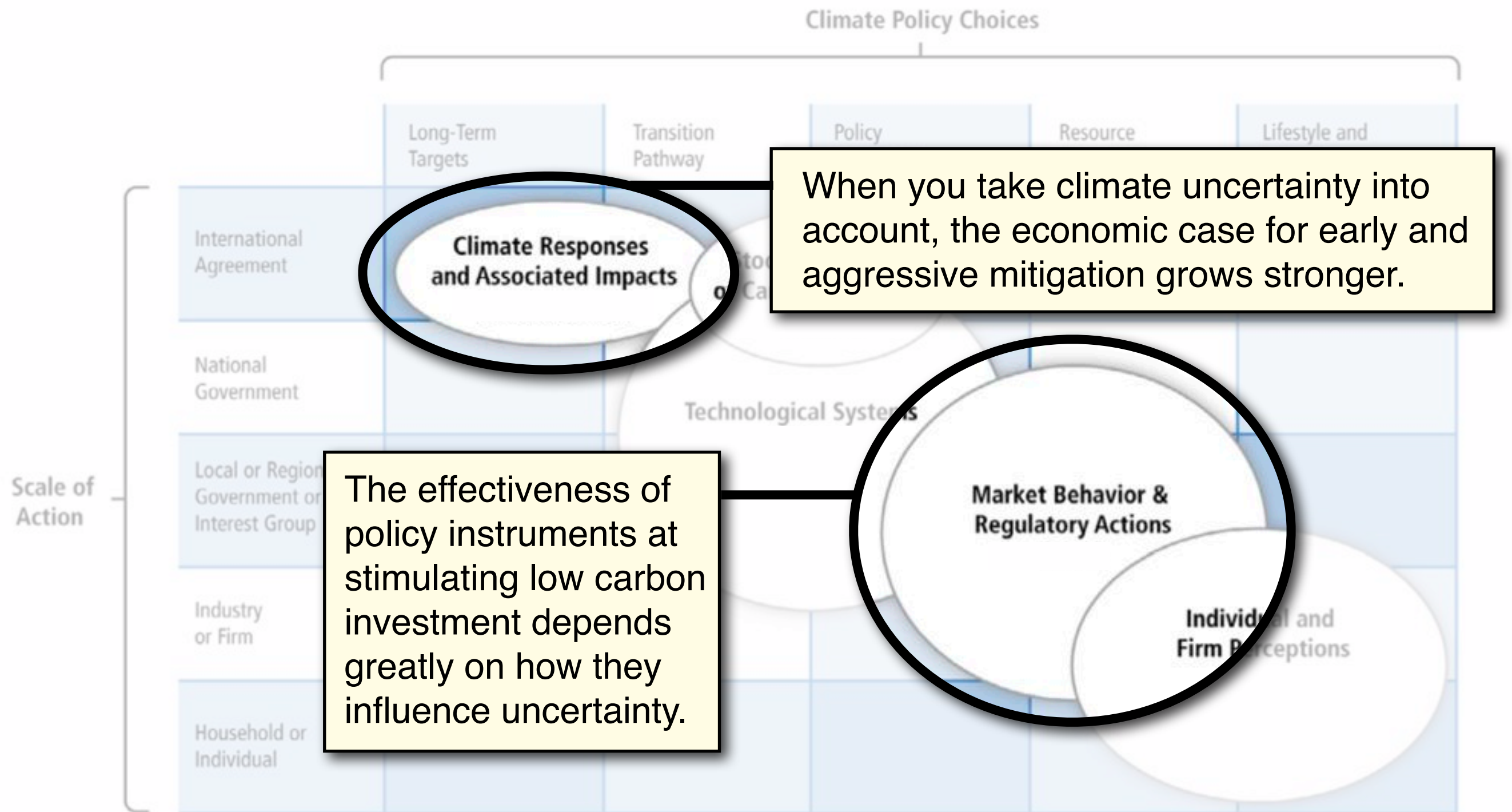
Policies

13. Global policy
14. Regional policy
15. National policy
16. Investment & finance

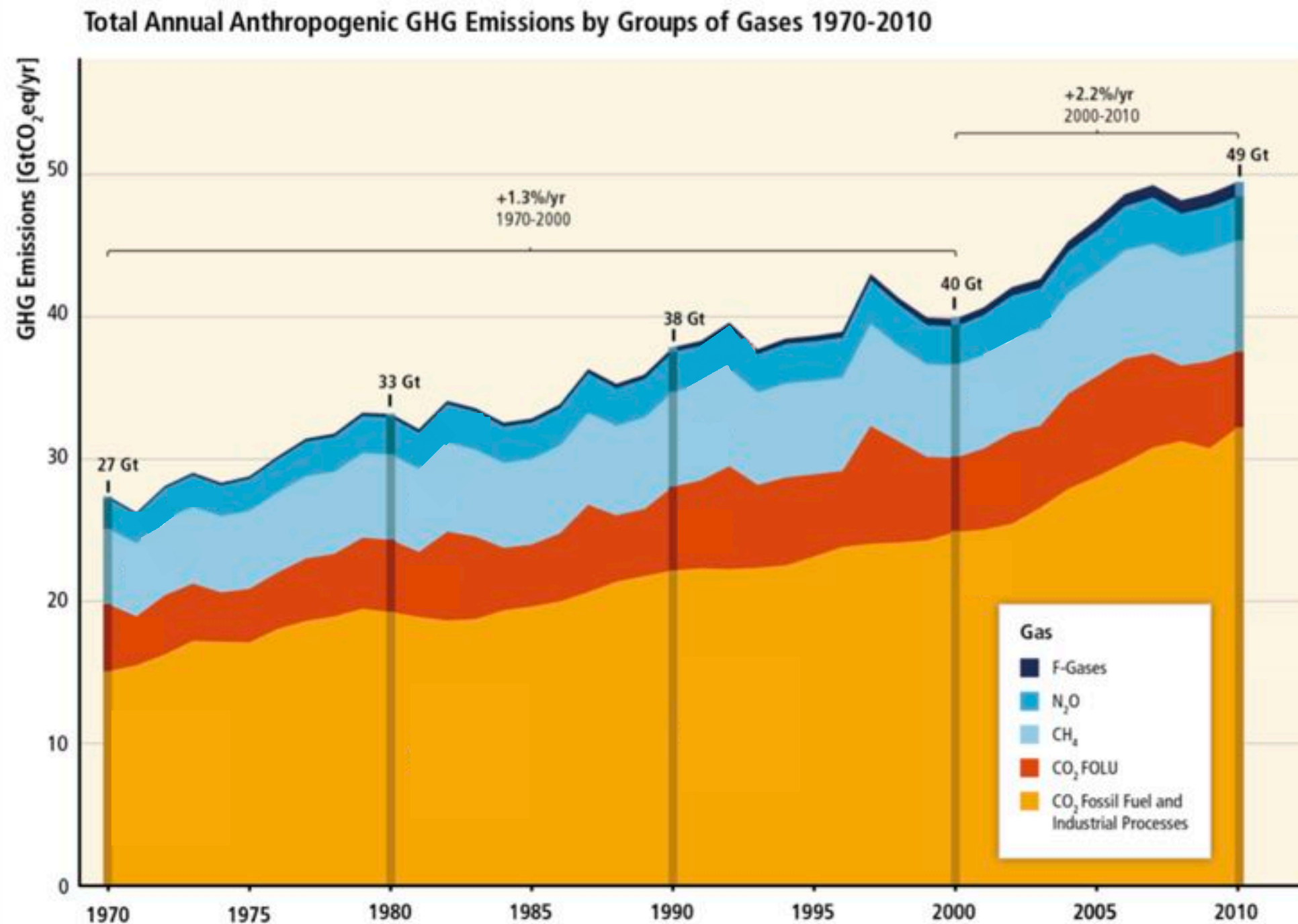
Different risks and uncertainties matter, depending on the actor and policy choice.



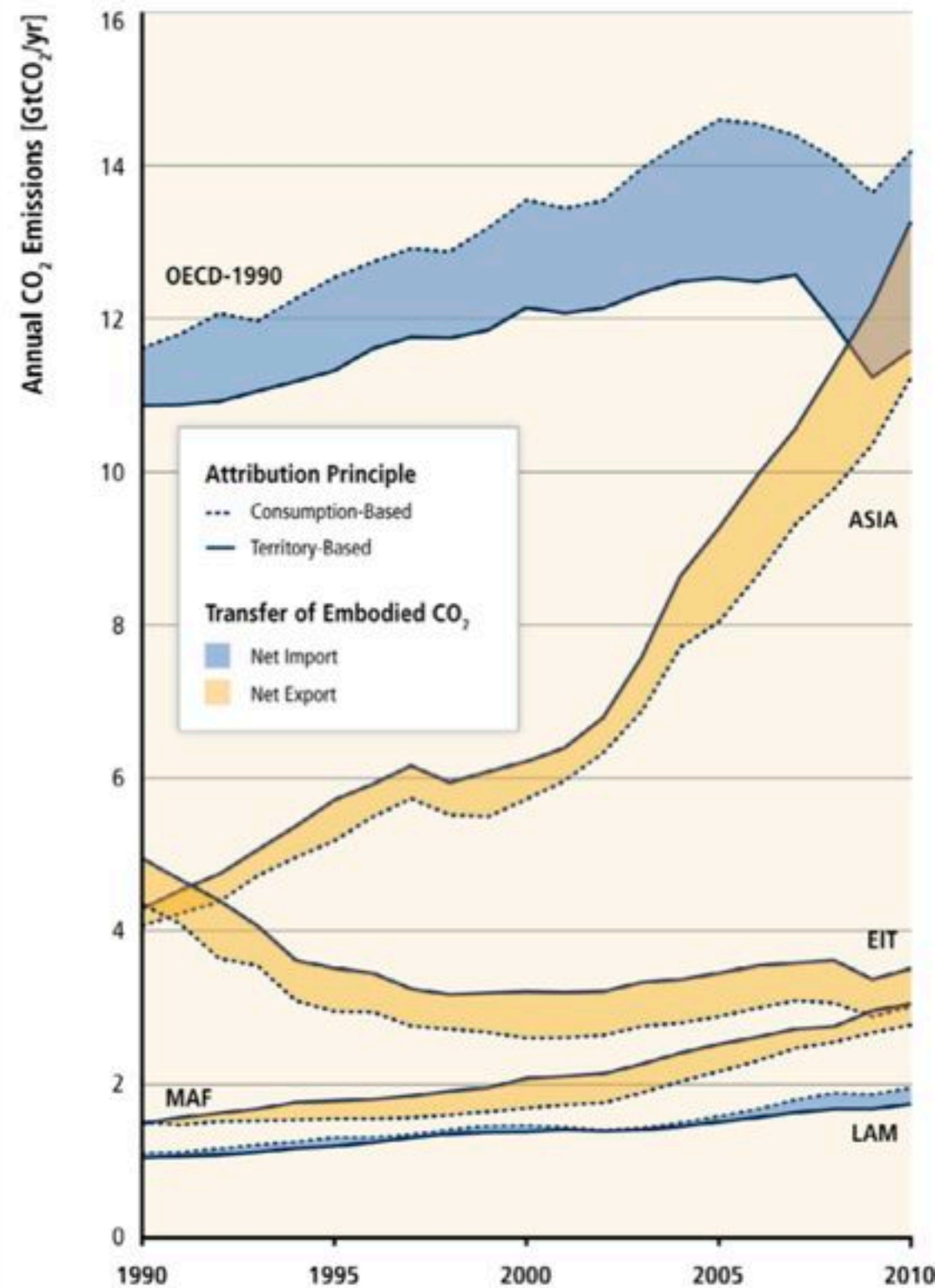
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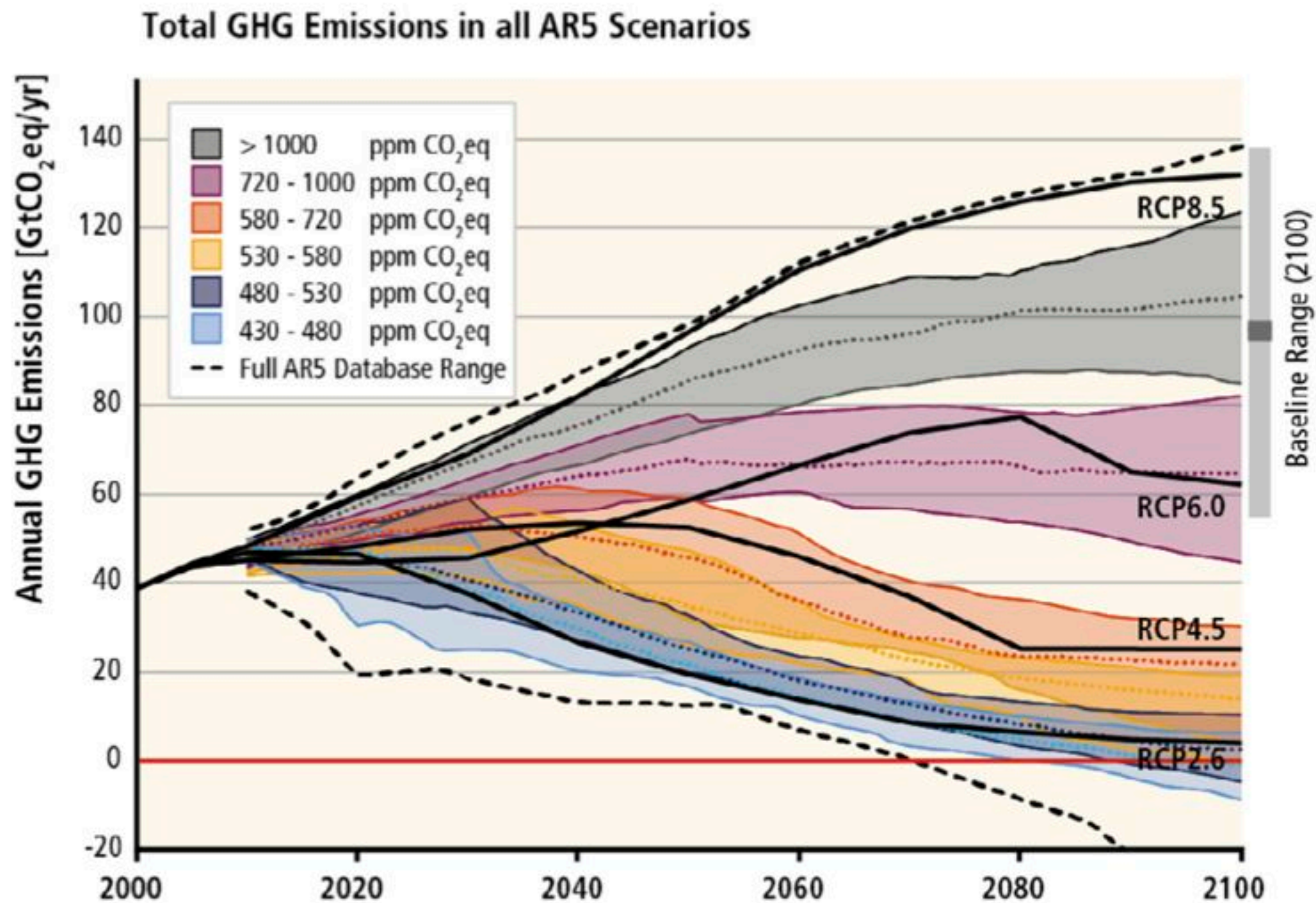
1 Economic growth is driving a continued rise in greenhouse gas emissions.



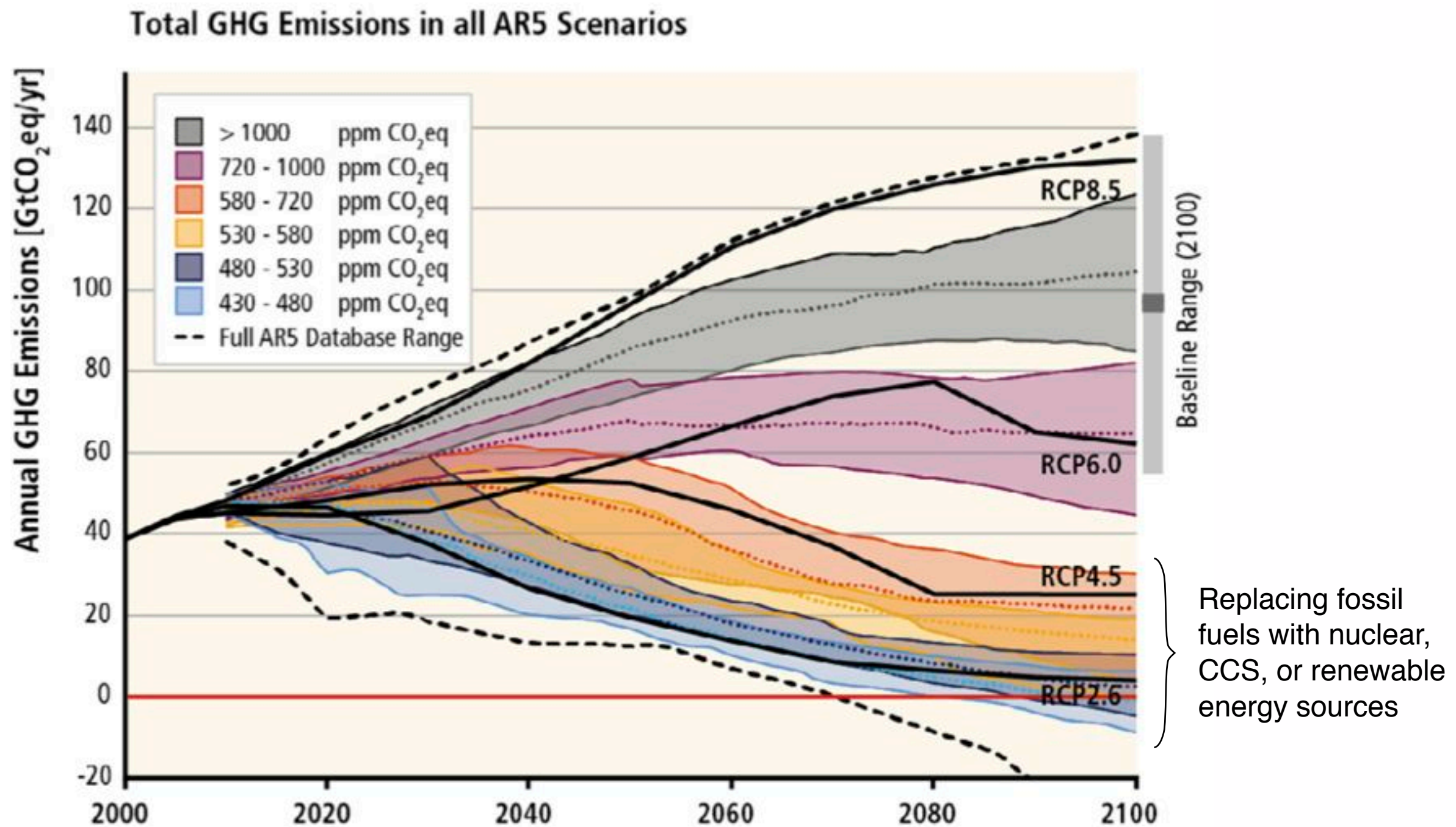
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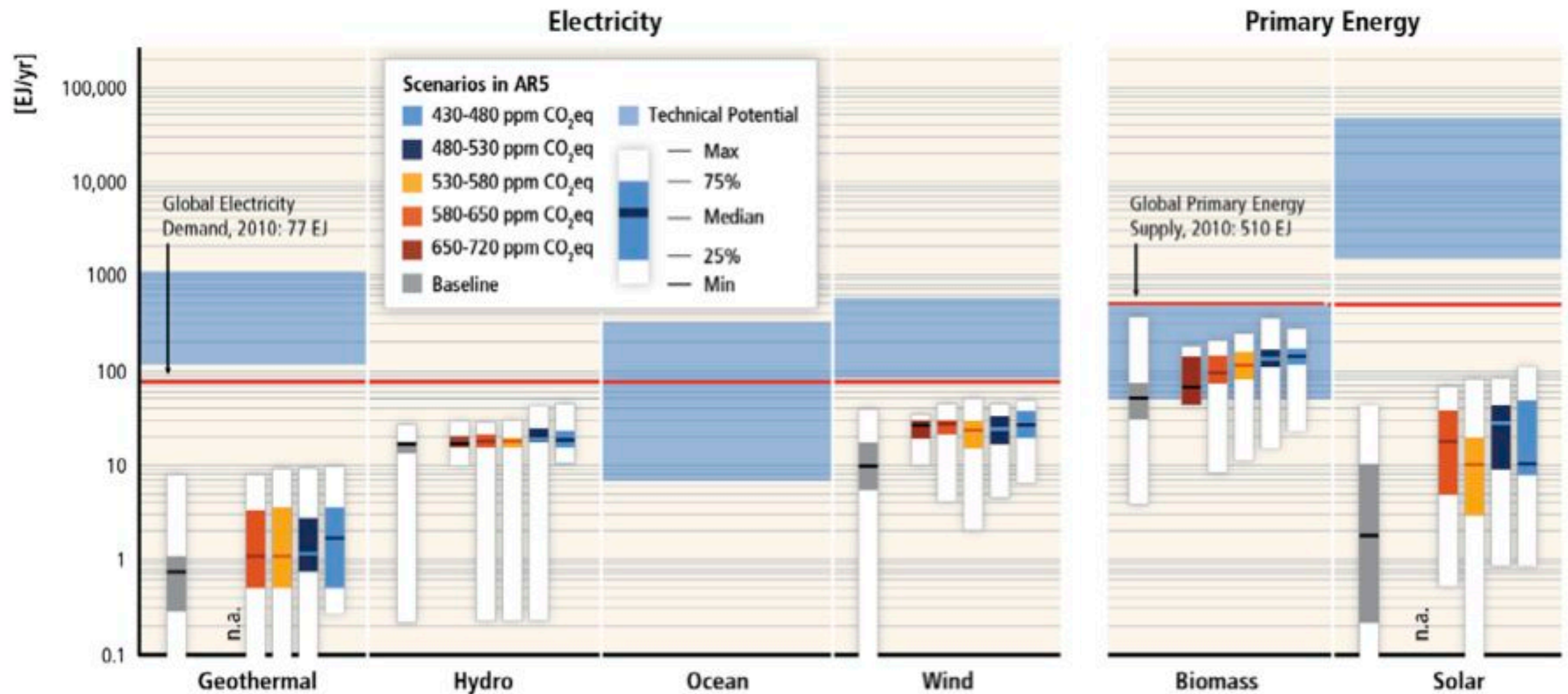
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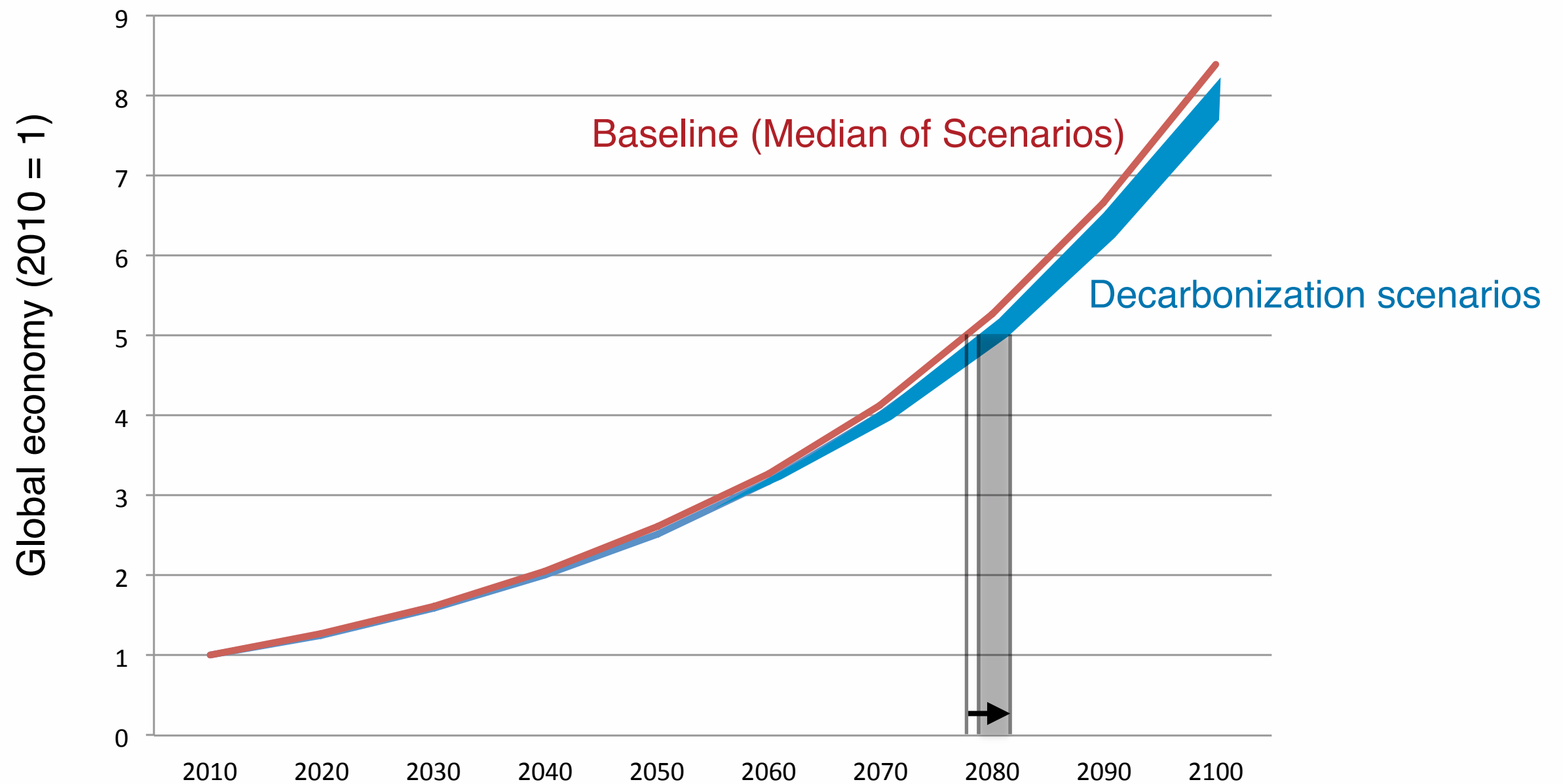
2 Decoupling growth from emissions is technically and economically feasible.



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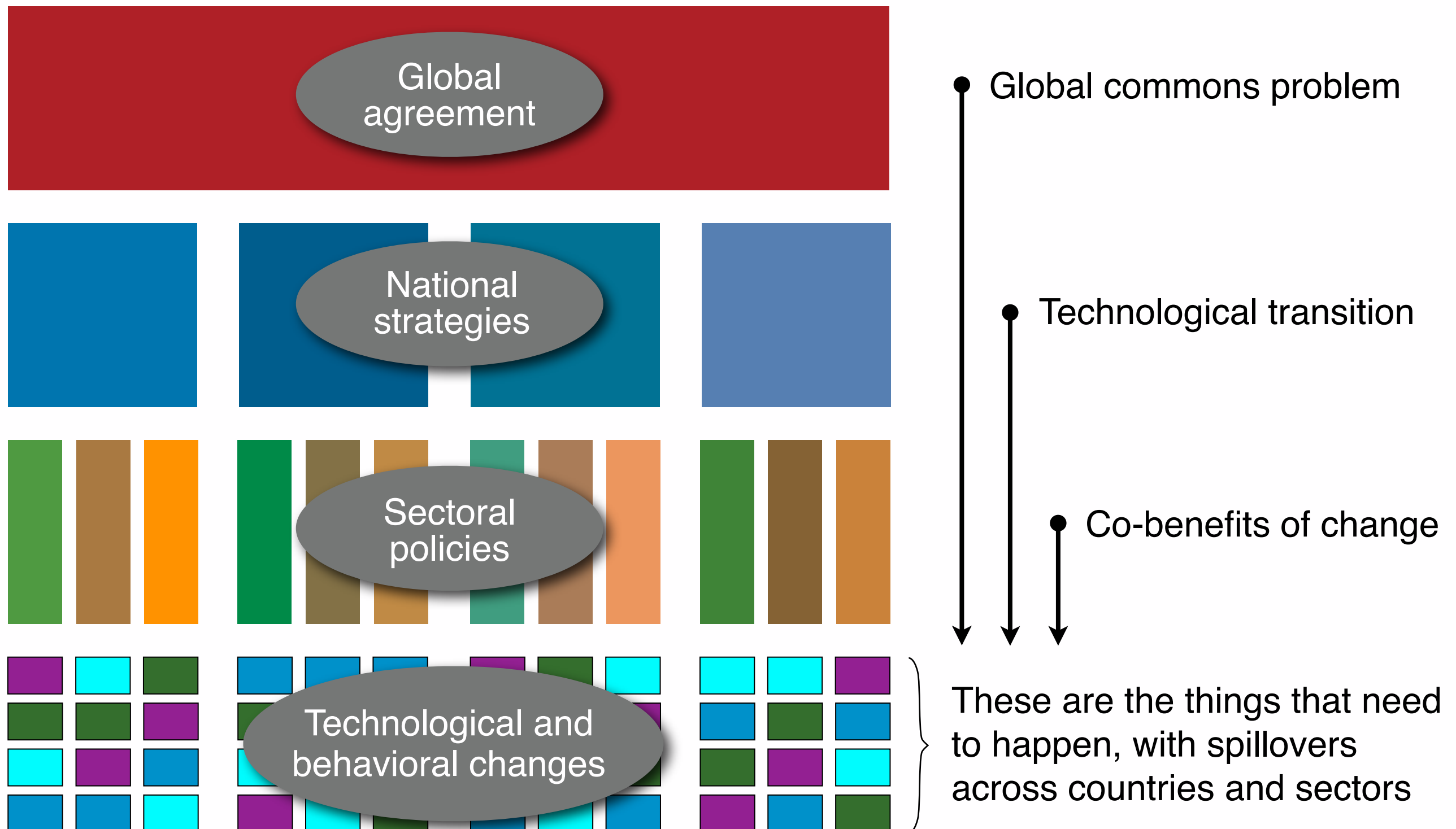


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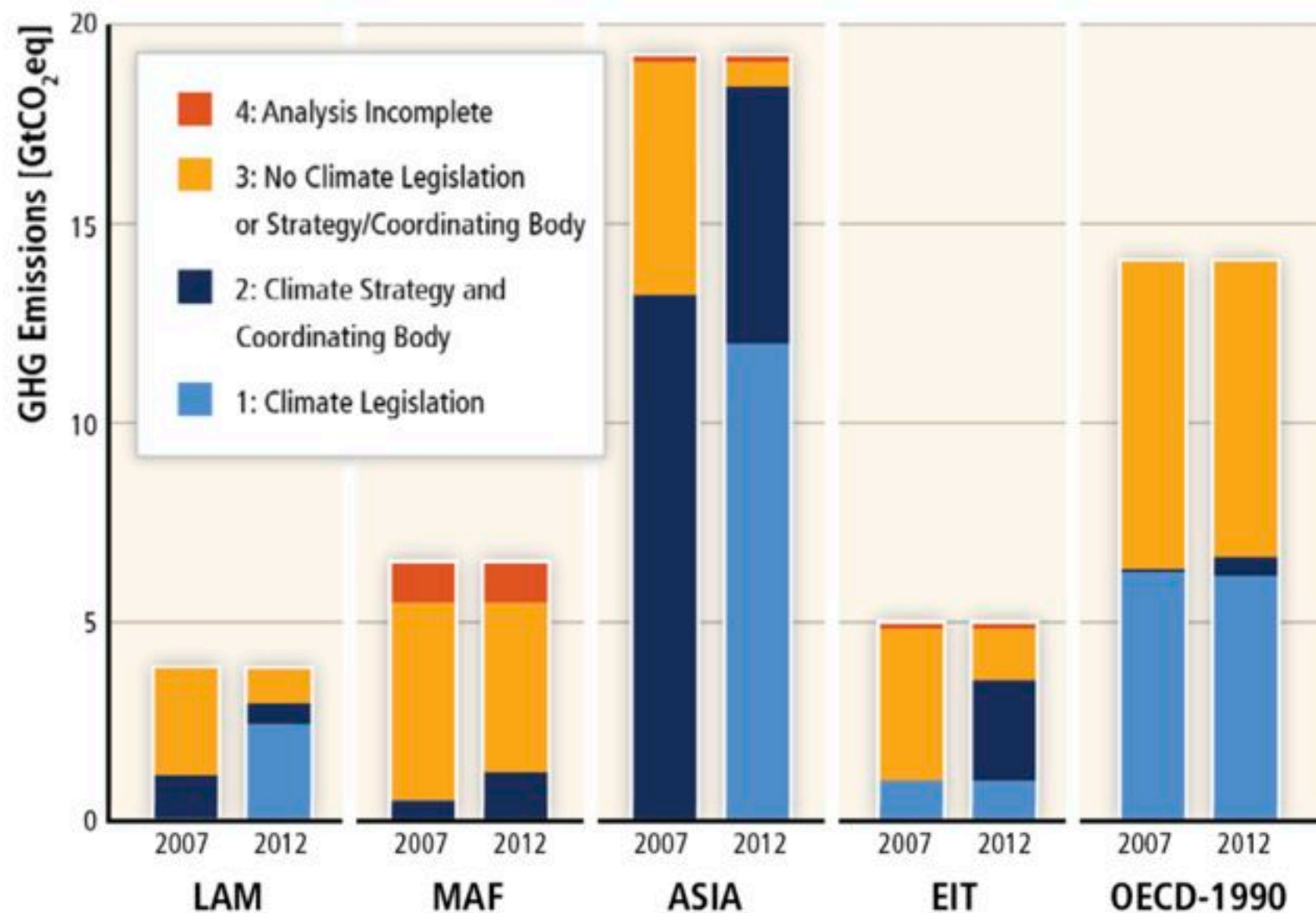


Own graph, based on data from IPCC AR5 WGIII, Ch6

3 There is no single policy change that is necessary or sufficient, but rather many.



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Effect of mitigation measures on additional objectives or concerns		
Economic	Social	Environmental
Energy security	Health impact (e.g., via air quality and noise)	Ecosystem impact (e.g., via air pollution)
Employment impact	Energy/mobility access	Land use competition
New business opportunity/economic activity	(Fuel) Poverty alleviation	Water use/quality
Productivity/competitiveness	Food security Impact on local conflicts	Biodiversity conservation
Technological spillover/innovation	Safety/disaster resilience	Urban heat island effect
	Gender impact	Resource/material use impact