

IPCC AR5 and the Global Change Programmes: Synthesis of the Amsterdam Workshop

Frans Berkhout
Institute for Environmental Studies (IVM)
VU University Amsterdam
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Process

- Review knowledge gaps in AR4
- Brainstorm in WGs: Modelling, V&A, Economics, Policies
- Answer the question: what can the global change programmes offer IPCC?

Knowledge gaps AR4 WGII

1. Observations, monitoring and attribution
2. Climate projections: esp. water, extreme events, abrupt climate change
3. Impacts in the context of: multiple stresses, thresholds and different development pathways
4. Costs of CC: impacts, adaptation and mitigation
5. Damages avoided by different levels of emissions reduction
6. Adaptation and sustainable development

Knowledge gaps AR4 WGIII

1. Emission data and projections
2. Costs and potentials
3. Low-level stabilisation scenarios
4. Effect of policies
5. Advanced mitigation technologies
6. Links between climate change and other policies

Key themes: Amsterdam

WG Modelling

- Translators, thresholds, model benchmarking

WG Vulnerability and adaptation

- Integrating V assessment, observations, social science in IAMs, model inter-comparison

Key themes: Amsterdam

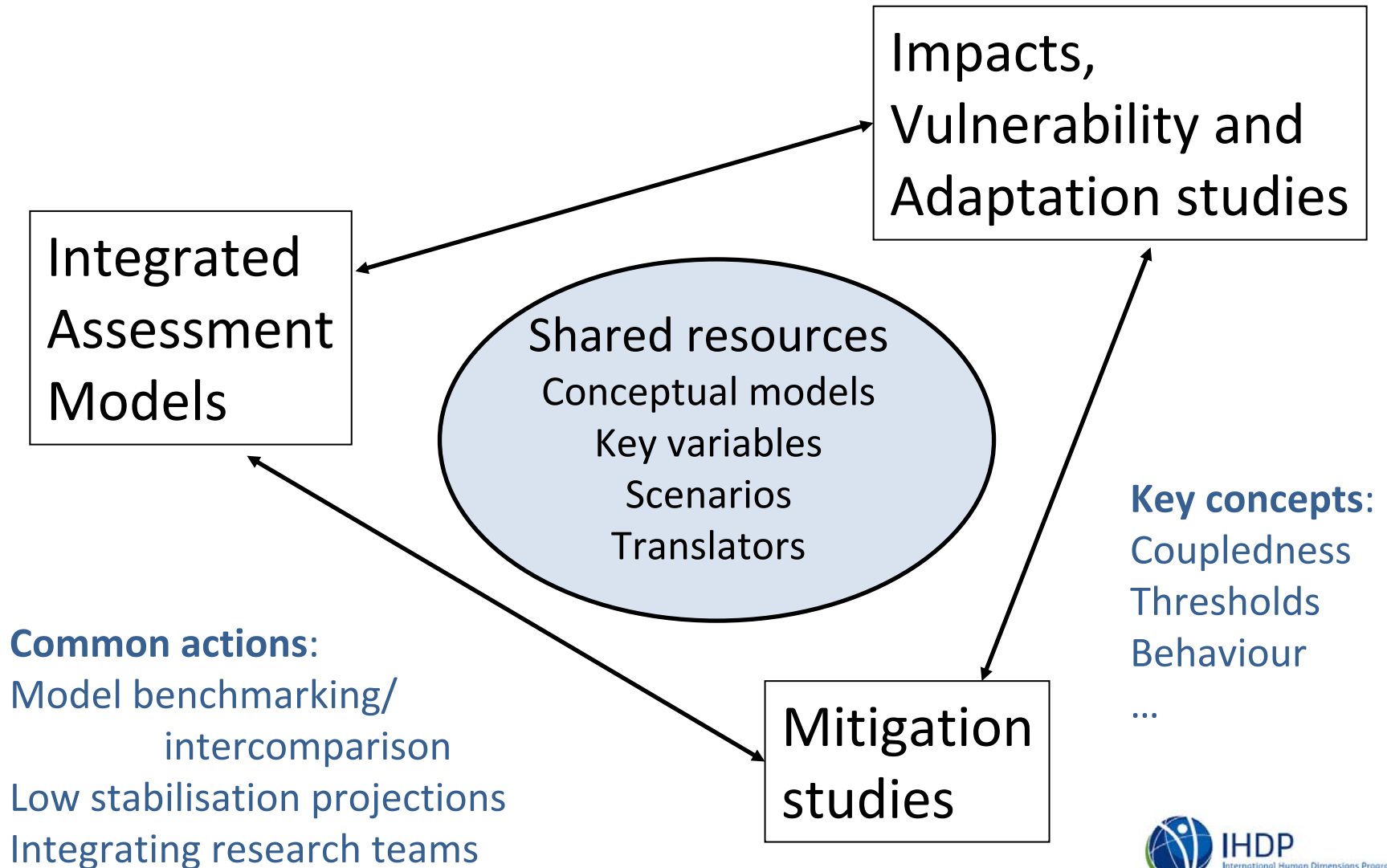
WG Economics

- Thresholds and transitions, Integrating M&A, Socio-economic processes underlying behaviour (change)

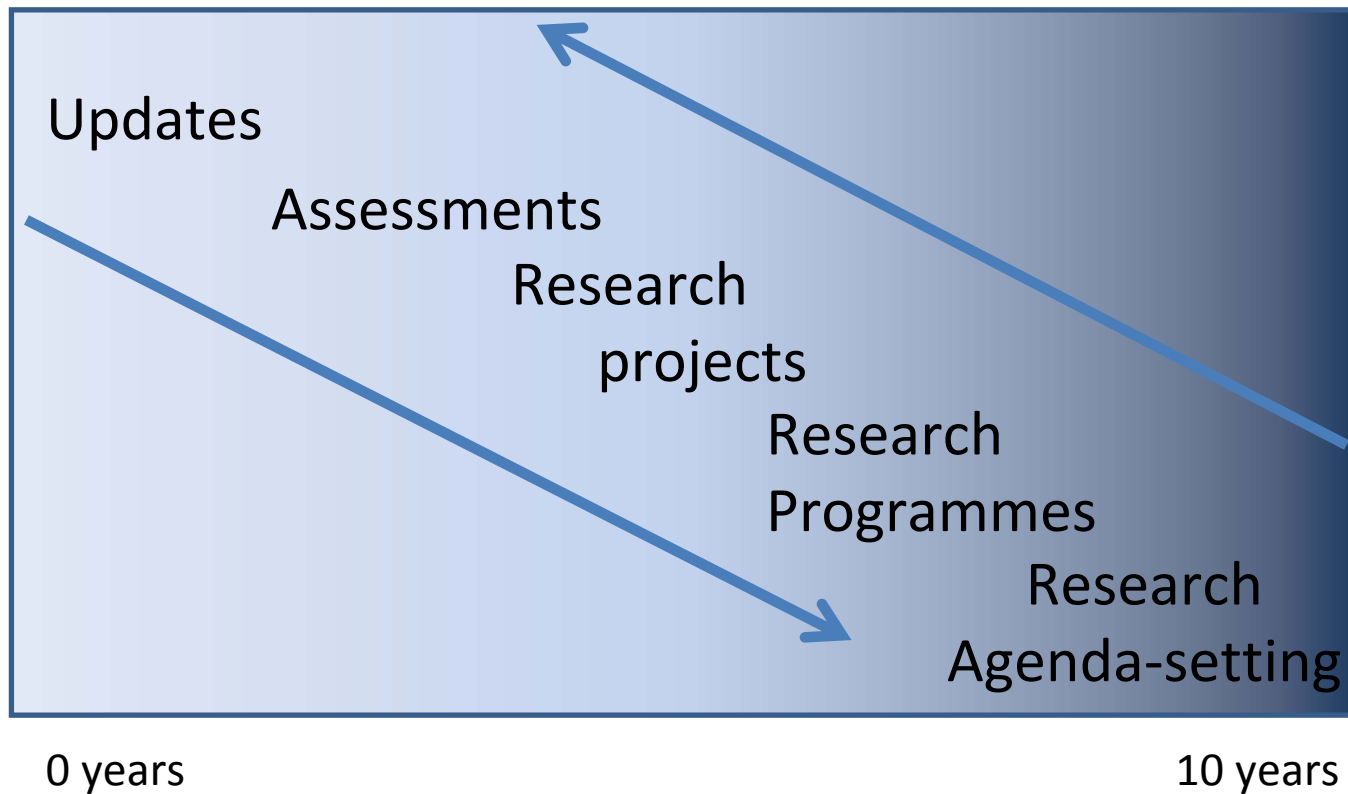
WG Response policies

- Behavioural drivers of emissions, Cost model inter-comparisons, Policy effectiveness, Low stabilisation scenarios, Innovation/diffusion of new & renewable technologies

Synthesis (ZOD)



Synthesis: Science and users



Roles for GC programmes

1. Integrated assessment modelling
2. Building and maintaining 'shared resources'
3. Enabling model inter-comparison and validation
4. Encouraging consistent frames for research on thresholds, behaviour...
5. Coordinating synthesis and rapid assessment
6. Organising global network on IVA

Alignment with knowledge gaps

WGII

1. Observations
2. Climate projections
3. Impacts under different conditions
4. Costs of I, A & M
5. Avoided damages
6. Adaptation and SD

WGIII

1. Emission projections
2. Costs and potentials
3. Low-level stabilisation scenarios
4. Effect of policies
5. Advanced mitigation technologies
6. Climate and other policies