

SNOWMASS 2016 AGENDA – Week 1

Assessing Transformation Pathways Post-Paris and Implications for IA Research

July 20 to July 22, 2016 – Snowmass, CO.

(Revised on site 7-22-16)

Planning Committee: Jae Edmonds, Haroon Kheshgi, Bryan Mignone, John Weyant

Tuesday, July 19, 2016

5:00 to 7:00 pm Registration and Informal Reception at the Gatehouse, TOV

*All events will be at TOV Gatehouse unless listed

Wednesday, July 20, 2016

Introduction

7:30-9:00	Breakfast & Informal Discussion	
9:00-9:15	Welcome	John Weyant (Stanford University)
9:15-9:30	Introduction and Meeting Goals	Haroon Kheshgi (ExxonMobil Research & Engineering Company)

Scene Setting: NDCs, SDGs and longer-term climate goals

Session 1: What came out of Paris?

- What are the key features of the agreement and what are the potential consequences of its successful implementation?
- What is the outlook for future action?
- What is the role of IA in informing goals and pathways?

Chair: Bryan Mignone, (ExxonMobil Research & Engineering Company)

9:30-10:00	The Paris Agreement What are the key features of the Paris Agreement? What is the time line for set up by the Agreement? What are the key next steps in the process? Where can the IA community contribute?	Jonathan Pershing (U.S. State Department)
10:00-10:30	OPEN DISCUSSION	

10:30-11:00	MORNING BREAK	
11:00-11:30	The Climate Implications of NDCs What are the climate consequences of the NDCs? (Fawcett, et al. Science paper)	Allen Fawcett (U.S. Environmental Protection Agency)
11:30-12:00	OPEN DISCUSSION	
12:00-1:00	LUNCH	

Session 2: Climate in the context of SDGs

- How will the pursuit of other priorities and goals affect implementation of the Paris Agreement or longer-term pathways?
- What is the role of IA more generally in informing goals, development, and transformation pathways?

Chair: John Weyant (Stanford University)

1:00-1:30	The SDGs (remote presentation) What are the SDGs? Can joint implementation be accomplished? (Shock Waves Report)	Stephane Hallegatte (World Bank)
1:30-2:00	Interactions Among the SDGs and NDCs What has been learned about interaction effects between SDGs and NDCs?	Keywan Riahi (International Institute for Applied Systems Analysis, IIASA)
2:00-2:30	OPEN DISCUSSION	
2:30-3:00	AFTERNOON BREAK	

Session 3: Implementation of the NDCs

- What policies and measures will be used to implement the NDCs?
- What is the connection between the NDCs and longer-term goals?
- What are the best metrics for evaluating these policies and what can one learn from such evaluation?

Chair: Bryan Mignone (ExxonMobil Research & Engineering Company)

3:00-3:30	Policies and Measures in China	Jiang Kejun (Energy Research Institute)
3:30-4:00	Policies and Measures in Japan	Shinichiro Fujimori (National Institute for Environmental Studies)
4:00-4:30	Policies and Measures in the US	Elke Hodson (U.S. Department of Energy)/ Ken Gillingham (Yale University)
4:30-5:00	OPEN DISCUSSION	
6:30	OPENING RECEPTION & DINNER	

Thursday, July 21, 2016

Key issues affecting the realism of transformation pathways

Session 4: Infrastructure and Technology Deployment in Transformation Pathways

- What are indicators of infrastructure and technology transformation?
- What barriers could be encountered, and what does this imply for the pace of transformation?

Chair: Haroon Kheshgi (ExxonMobil Research & Engineering Company)

7:30-8:30	Breakfast & Informal Discussion	
8:30-9:00	Perspectives on the Transformation of Infrastructure and Technology	Haroon Kheshgi (ExxonMobil Research & Engineering Company)
9:00-9:30	Issues for Financing Transformation Investments I	Emanuele Massetti (Georgia Institute of Technology)
9:30-10:00	Issues for Financing Transformation Investments II	John Parsons (Massachusetts Institute of Technology)
10:00-10:30	OPEN DISCUSSION	
10:30-11:00	MORNING BREAK	

Session 5: Institutions in Transformation Pathways

- How will existing institutions and institutional change shape pathways?
- What barriers could be encountered, and what does this imply for the pace of transformation?

Chair: Haroon Kheshgi (ExxonMobil Research & Engineering Company)

11:00-11:30	Effects of Institutions on Transformation	David Victor (University of California at San Diego)
11:30-12:00	How Will We Know If We Are On track? Issues For Monitoring and Verification	Ghassem Asrar (Joint Global Change Research Institute/ Pacific Northwest National Laboratory)
12:00-12:30	OPEN DISCUSSION	
12:30-1:30	LUNCH	

Session 6: Transformation Pathways in Models – From NDCs through Midcentury

- What are credible pathways through 2050?
- How do models handle barriers discussed above?
- What are useful indicators of transformation in models?

Chair: Max Tavoni (FEEM)

1:30-2:00	Role of Natural Gas in Scenarios of US Transformation	Bryan Mignone (ExxonMobil Research & Engineering Company)
2:00-2:30	Mid-Century Pathways	Gokul Iyer (Joint Global Change Research Institute/ Pacific Northwest National Laboratory, JGCRI/PNNL)
2:30-3:00	OPEN DISCUSSION	
3:00-3:30	AFTERNOON BREAK	

Session 7: Transformation Pathways in Models – Examining Longer-term Goals

- What are credible pathways through 2100?
- How do models handle barriers discussed above?
- What are useful indicators of transformation in models?

Chair: Haroon Kheshgi (ExxonMobil Research & Engineering Company)

3:30-4:00	Land Use and Land Use Change In Models: What Do They Assume and What Is Realistic?	Steve Rose (Electric Power Research Institute)
4:00-4:30	Lessons from the Global Carbon Project	Detlef van Vuuren (The PBL Netherlands Environmental Assessment Agency)
4:30-5:00	CD LINKS - An Expert Elicitation of 2100 Emission Ranges	Valentina Bosetti (Bocconi University)
5:00-5:30	OPEN DISCUSSION	
5:30	INFORMAL DISCUSSIONS (Attendees are on their own for dinner)	

Friday, July 22, 2016

Implications for climate change assessment and IA research

Session 8: Assessing Transformation Pathways and 1.5°C

- What is implied for near-term and long-term goals, and how might this be assessed?
- What additional information is needed for assessment?

Chair: Valentina Bosetti, (Bocconi University)

7:30-8:30	Breakfast & Informal Discussion	
8:30-9:00	The IPCC Special Report and the AR6 (remote presentation)	Jim Skea & P.R. Shukla (The Intergovernmental Panel on Climate Change)
9:00-9:30	OPEN DISCUSSION	
9:30-10:00	What Do We Know So Far About Getting To 1.5°C?	Elmar Kriegler (Potsdam Institute for Climate Impact Research, PIK)
10:00-10:30	MORNING BREAK	
10:30-11:00	Post-Paris IAM Research Needs	Jae Edmonds (Joint Global Change Research Institute/ Pacific Northwest National Laboratory, JGCRI/PNNL)
11:00-11:30	EU INDC & Mid-Century Strategies with Overview of European Commission's Modeler Support Projects	Miles Perry (European Commission, DG Climate)

Session 9: Final Discussion of Barriers

- What are the most relevant and useful metrics, indicators and signposts of transformation in the categories below?
- What are the most important barriers or real world features to consider in the categories below?
- How can these barriers be most appropriately included as structural or input assumptions to models and which indicators are most important to consider as outputs of models?

Introduction to Discussion: Bryan Mignone (ExxonMobil Research & Engineering Company)

11:30 - 12:30	Possible Directions for Better Reflecting Barriers to Large Scale Energy and Land System Transitions in Integrated Assessment Models	
12:30-1:30	Lunch	

Session 10: Next Steps: Transformation Pathways and IAMs

- What research pathways, model development activities and/or community efforts are needed for IAMs to provide relevant information?

Chairs: Max Tavoni (FEEM) & Bryan Mignone (ExxonMobil Research & Engineering Company)

1:30-3:30	Possible Directions for Better Reflecting Barriers to Large Scale Energy and Land System Transitions in Integrated Assessment Models (Continued)	
3:30-4:00	AFTERNOON BREAK	

Session 11: Next Steps: Transformation Pathways and Assessments

- How should assessments be structured to provide relevant information?

Chairs: Haroon Kheshgi (ExxonMobil Research & Engineering Company) and Jae Edmonds (JGCRI/PNNL)

4:00-5:00	Week 1 Conclusion and Week 2 Introduction	
5:30	INFORMAL DISCUSSIONS (Attendees are on their own for dinner)	