PIK

Leibniz Association

CLIMATE ANALYTICS

ifo INSTITUT

Consortium meeting: Understanding the Short- and Long-Term Impacts of Climate Extremes (SLICE)

identifying key impact channels and effective strategies for long-term economic development under climate change

May, 13 2020

Join Zoom Meeting:
https://pik-potsdam.zoom.us/j/94443451978

Background & Aims:
- Inform key stakeholders and scientific advisory board (SAB) members about last year's progress in the SLICE project and the work planned within this year.
- Discuss modeling approaches and stakeholder interactions in the breakout groups.

Morning		
9:00 - 9:15	**Introduction to the SLICE project** ● Where are we right now and where do we want to achieve within this year?	**Chair:** Christian Otto **Minutes:** Anne Scheibe
9:15 - 11:45	**Session 1: News from the SLICE project** (5 Talks (10+5 minutes) followed by a general discussion) ● This session aims at giving an overview of the work we are doing and stimulate the discussion in the breakout groups. **Presentations:** ● **Inga Sauer**: Disentangling drivers of historic flood losses ● **Julius Berger & Markus Zimmer**: Long-term flood impacts on Nigerian households ● **Anne Zimmer**: Impacts of droughts on households in Malawi and Uganda ● **Laurence Malafry**: A dynamic household-level model for the distributional effects of climate extremes ● **Hazem Krichene:** The impacts of tropical cyclones and fluvial floods on economic growth General discussion and feedback from stakeholders and SAB members	**Chair:** Franziska Piontek **Minutes:** Anne Scheibe
11:45 - 12:45	***Lunch break***	
Afternoon		
12:45 - 14:30	**Session 2: Input from the stakeholders and SAB members** (4 Talks (10+5 minutes) followed by a general discussion) ● This session invites stakeholders and SAB to present their SLICE related works and/or the Agenda of their institutions. **Presentations:** ● **David Bresch**: CLIMADA - the open-source and -access global platform for probabilistic risk modelling and options appraisal ● **Anna Dimitrova**: Monsoon weather and early childhood health in India	**Chair:** Anne Zimmer **Minutes:** Anne Scheibe

	● **Arun Rana** (InsuResilience Solutions Fund (ISF)) ● **Christoph von Stechow** (BMZ) General discussion	
14:30 - 14:45	*Coffee break*	
14:45 - 15:45	**Breakout groups**	

	BG1: Challenges of estimating (long-term) impacts of climate extremes on households in developing countries
	This group may discuss a variety of topics including
	● Identifying affected households:
	   ○ How to identify households affected by extreme events/climate shocks, especially if shocks are not represented in self-reported household data?
	   ○ How to combine and validate bio-physical impact simulations with survey data?
	● Measuring socioeconomic impacts on households :
	   ○ Which dependent (and control variables) are most promising to estimate impacts on economic well-being, education and health?
	   ○ Measuring long-term impacts
	● Further methodological challenges
	   ○ (Feedback) Effects of education and health on resilience to shocks?
	   ○ Other methodological challenges (e.g. endogeneity issues, strongly unbalanced and potentially selective panels, low number of observations)?
	● Linking the ex-post analysis econometrics results to economic modelling?
	
	Participants: Anne Zimmer, Jessie Schleypen, Julius Berger, Laurence Malafry, Anna Dimitrova, Katharina Lehmann-Uschner, Karen Pittel, Stefan Lange
		Facilitator:
		Anne Zimmer
		Minutes:
		Jessie Schleypen & Katharina Lehmann-Uschner

	BG2: Challenges in the macroeconomic modeling of the long-term impacts of climate extremes - Combining empirical findings with dynamics macroeconomic modeling This group may discuss a variety of topics including ● What are the main drivers of adaptation to weather extremes (e.g., foreign funding, insurance, investment, etc.)? ● How to include adaptation drivers into empirical modeling? ● How dynamic macroeconomic modeling could explain the different responses of rich and poor countries to weather extremes? ● What are the main components to consider in dynamic macroeconomic modeling: e.g., external funding, remittances, insurance, etc.? ● How dynamic macroeconomic modeling could account for the empirically derived damage function? **Participants:** Hazem Krichene, Christian Otto, Inga Sauer, Charlotte Plinke, Arun Rana, Christoph von Stechow, Suphi Sen	**Facilitator** Hazem **Minutes:** Inga Sauer
15:45 - 16:00	*Coffee break*	
16:00 - 16:30	Reporting back from the breakout groups and concluding discussion	**Chair:** Christian Otto **Minutes:** Anne Scheibe