



## **Workshop: Understanding the Short- and Long-Term Impacts of Climate Extremes** identifying key impact channels and effective strategies for long-term economic development under climate change

May 20-21 2019

International Fund for Agricultural Development, Rome, Italy

### **Background & Aims:**

Climate extremes such as floods, tropical cyclones, heatwaves, and droughts cause not only substantial direct damages but also have the potential to deteriorate socio-economic development perspectives in the long-term. However, a systematic understanding of the main impact channels of climate extremes on socio-economic development from the household to the macroeconomic level is still missing.

Systematic empirical analyses are needed to identify the main impact channels of climate extremes on the socio-economic development in low-income, emerging, and industrialized countries. This profound empirical understanding will significantly improve the representation of climate change impacts in economic models, e.g. identified as one of the largest challenges in integrated assessment research by the recent *IPCC special report on the impacts of global warming of 1.5 °C*.

This research gap needs to be addressed not only with regard to future climate impact assessments, such as the upcoming 6th IPCC assessment report. Equally important, practitioners from international institutions and the private sectors are in need of systematic quantifications of climate extremes impacts on society and economy to assess the merits and limits of coping strategies ranging from physical adaptation to disaster insurance schemes.

In partnership with IFAD's recently launched Climate Adaptation in Rural Development (CARD) initiative, this workshop aims at bringing together leading experts from the empirical and the economic modeling communities with stakeholders and applicants from international and national institutions and the re-insurance industry and rating agencies to address the following questions:

- (i) How to comprehensively account for short- and long-term socioeconomic impacts of climate extremes?
- (ii) What are the main impact channels of climate change on socioeconomic development trajectories (household and country level) in developing and industrialized countries? How to increase their resilience?
- (iii) Which scientific output by SLICE could be applied within your working sphere? What achievements would you consider a break-through in this field in the next 3 years?

The workshop is intended to make an essential contribution to outline a research framework towards the next generation of socio-economic climate damage estimates. It will be held by the newly launched project "Short- and Long-Term Impacts of Climate Extremes (SLICE)" partnered by CARD, PIK, ifo, Climate Analytics and ETH Zurich. The outcomes will contribute to CARD's continuous scientific aggregation.

# Workshop Agenda

Monday, May 20 2019

- 10:00 - 11:00**     **Registration and Welcome Coffee**
- 11:00 - 11:10**     Welcome to IFAD  
Lisandro Martin IFAD's Director of the West and Central Africa (WCA) Division
- 11:10 - 11:40**     Welcome by SLICE project team  
Christian Otto & Tobias Geiger, Potsdam Institute for Climate Impact Research (PIK)
- 11:40 - 12:10**     Introduction round: Expectations on the project and aims of this workshop  
[Minutes: Anne Scheibe]
- 12:10 - 13:15**     **Lunch @ IFAD Cafeteria**
- 13:15 - 13:45**     Opening lecture: *Fostering climate resilience for the poor*  
Brian J. Walsh, Global Facility for Disaster Reduction and Recovery, World Bank
- 13:45 - 14:15**     *Socio-economic impacts: Outlook on the empirical household-level analysis in SLICE*  
Sarah D'haen & Anne Zimmer, Climate Analytics; Markus Zimmer, ifo Institute
- 14:15 - 14:35**     *National climate impact assessments - News from the Inter-Sectoral Impact Model Intercomparison (ISIMIP) and the ISlpedia Projects*  
Franziska Piontek, Potsdam Institute for Climate Impact Research (PIK)
- 14:35-14:55**     *Long-term impacts of climate change on growth*  
Matthias Kalkuhl, Mercator Research Institute on Global Commons and Climate Change (MCC) & University of Potsdam
- 14:55 - 15:30**     **Group picture + coffee break**
- 15:30 - 17:30**     **Perspectives on regional climate impacts and coping strategies**  
[5 input talks 15 + 5 mins discussion, Convener: Anne Zimmer]
- *Agricultural Development from IFAD's perspective*  
Florent Baarsch, International Fund For Agricultural Development (IFAD)
  - *Rapid assessment of agricultural risks*  
Florent Baarsch, IFAD
  - *Determinants of climate change vulnerabilities and coping strategies*  
Anna Dimitrova, Wittgenstein Centre for Demography and Global Human Capital
  - *Coping with Climate Change – a development assistance perspective*  
Lena Klockemann, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ)
  - *Future economic damages from climate extremes*  
Inga Sauer, Potsdam Institute for Climate Impact Research (PIK)
- 17:30 - 18:15**     Bilateral discussion with stakeholders  
[available rooms: Oval Conference Room, B100, C100]
- 19:30 - 22:00**     **Workshop dinner @ Osteria Oliva [Via Dei Serpenti 110, 00184 Roma]**

Tuesday, May 21 2019

**8:30 - 8:40** Introduction to second day

**8:40 - 10:20** **Perspectives on financial risks and insurance solutions**

[4 input talks of 15 + 5 mins discussion, Convener: Sarah D'haen]

- *Introduction to Climate Finance from a research perspective*  
Alex Stomper, Humboldt University Berlin
- *A more comprehensive approach for climate risk finance - Insights from the InsuResilience Global Partnership*  
Rene Kieselhorst, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ)
- *Insurance in a world of climate extremes*  
Michael Gloor, Swiss Re
- *Climate Extremes and Sovereign Ratings*  
Moritz Kraemer, Acreditus Risk, Rating, Credit & Sukuk Advisory

**10:20 - 10:30** Introduction to breakout groups

**10:30 - 11:00** **Coffee break**

**11:00 - 12:30** **BG 1 Climate impacts on households - a microeconomic challenge**

[Room: Oval Conference Room, Convener: Markus Zimmer, Minutes: Anne Zimmer]

- Johnson Nkem Ndi, UN Economic Commission for Africa
- Anna Dimitrova, Wittgenstein Centre
- Peter Läderach, CIAT
- Stenio Andrade, IFAD

**BG 2 Socioeconomic climate impacts - How to capture the inequality dimension**

[Room: B100, Convener: Christian Otto, Minutes: Inga Sauer]

- Brian Walsh, World Bank
- Lena Klockemann, GIZ
- Matthias Kalkuhl, MCC & University of Potsdam
- Florent Baarsch, IFAD

**BG 3 Coping with financial risks from climate extremes**

[Room: C100, Convener: Tobias Geiger, Minutes: Anne Scheibe]

- Moritz Kraemer, Acreditus
- Michael Gloor, Swiss Re
- Rene Kieselhorst, GIZ
- Alex Stomper, Humboldt University Berlin

**12:30 - 13:30** **Lunch @ IFAD Cafeteria**

**13:30 - 14:15** Reporting-back from breakout groups [Convener: Franziska Piontek ]

**14:15 - 15:00** Concluding discussion [Convener: Sarah D'haen, Tobias Geiger]

**15:00 - 15:15** Farewell [Christian Otto & Tobias Geiger]

**15:30 - 17:00** Internal meeting SLICE project partner

# Useful Information

## IFAD headquarters

### Check-in

For the check-in at IFAD you need a valid passport. Please calculate some extra time in the mornings for security check-in at the entrance of the IFAD building.

### Meeting rooms

The workshop will take place in the Oval Conference Room in the basement (-1 level). Breakout group 2 *Socioeconomic climate impacts* will meet in room B100 (2<sup>nd</sup> floor) and breakout group 3 *Coping with financial risks* will meet in C100 (3<sup>rd</sup> floor).

### WiFi

WiFi facilities are available in all meeting rooms. Login: ifad\_guest password: ifadguest

### How to get there and back

#### From metro station Laurentina (terminus of line B)

IFAD is at walking distance (15mins) from Laurentina. A shuttle bus runs between Laurentina Metro station and IFAD from 7:40 to 9:25 and from 16:45 to 18:50 from IFAD to Laurentina.

#### From the hotel

Take the bus lines 767 (direction Agricoltura) or 764 (direction Londra) from the [stop Europa/Boston in the street Viale Europa](#). You can also reach IFAD by a refreshing 20-30 minute walk.

## Workshop dinner

The workshop dinner will take place at

### [Osteria Oliva](#)

Via Dei Serpenti 110  
00184 Roma

in Rome's historic city centre on Monday, starting at 7.30p.m. Plan about 40 minutes to get there from IFAD or the hotel by public transport. The last shuttle bus from IFAD to the Laurentina Metro station runs at 6:50p.m. After that take bus 764 (direction Agricoltura) to Laurentina. From Laurentina take metro line B to the station Cavour.

