

Process-based models for climate impact attribution across sectors

virtual kick-off meeting 13-15/1/2021

COST Action CA19139 (runs 1-11-2020 till 16-9-2024)

Christopher Reyer

Short summary & How to join?

PROcess-based models for CLimate Impact Attribution across Sectors (PROCLIAS)

Chair: C. Reyer / Vice-Chair: V. Huber

WG1: Common datasets and protocols for climate impact modelling Lead: W. Thiery, L. Dobor



WG2: Impact attribution and uncertainty assessments Lead: V. Huber, E. de Eyto

WG3: Cross-sectoral climate impacts Lead: S. Gosling, S. Shamir, L.-F. Pau



WG4: Communication and dissemination of climate impacts Lead: I. Menke, A. van Grievensen

Communications Representative: A. Sofo

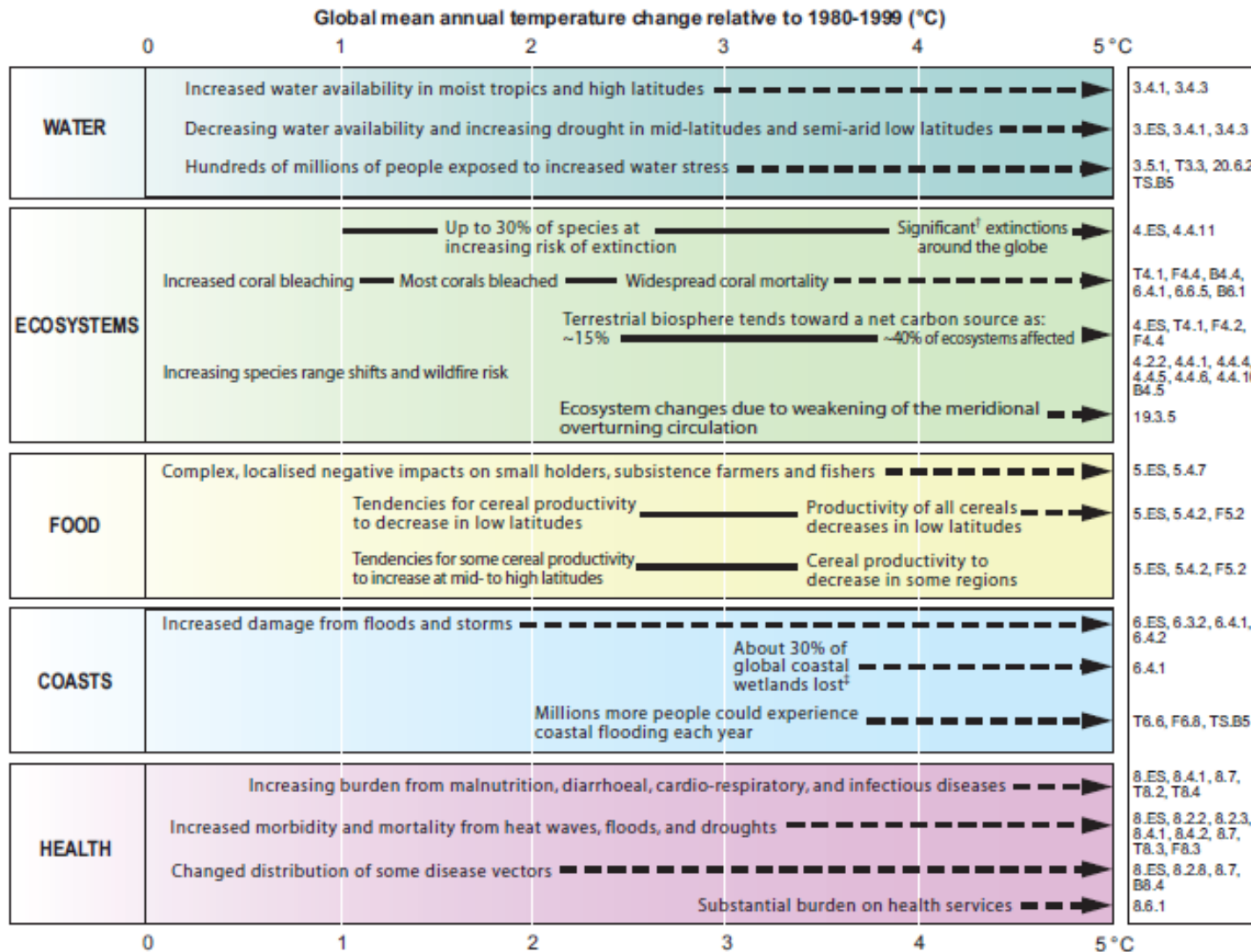
Gender, ECI and ITC Officer: E. Vaculovski

ITC Conference Grant Manager: J.P. Teixeira

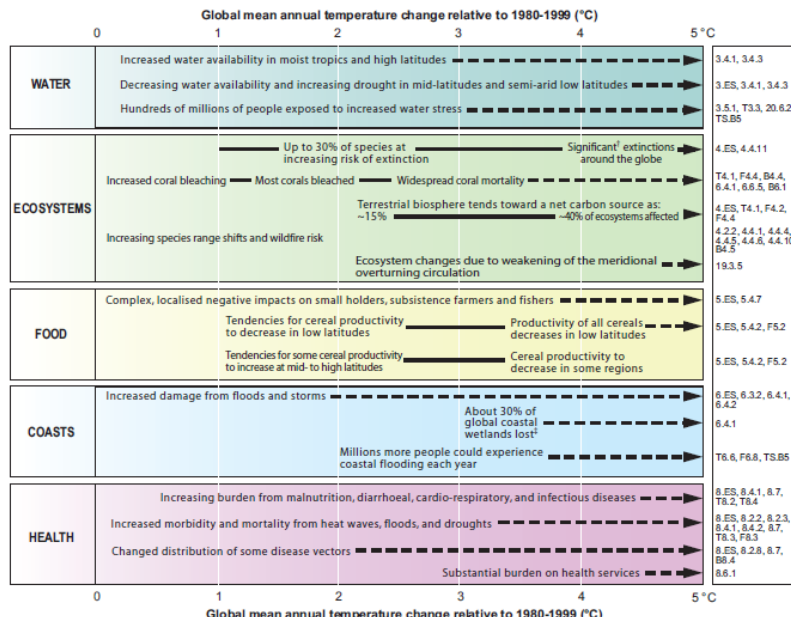
STSM Coordinator: K. Merganicova

PROCLIAS Aim: *“Develop **common protocols, harmonized datasets** and a joint understanding of how to conduct **cross-sectoral, multi-model climate impact studies** at regional and global scales allowing for **attribution** of impacts of recent climatic changes and robust **projections** of future climate impacts”*

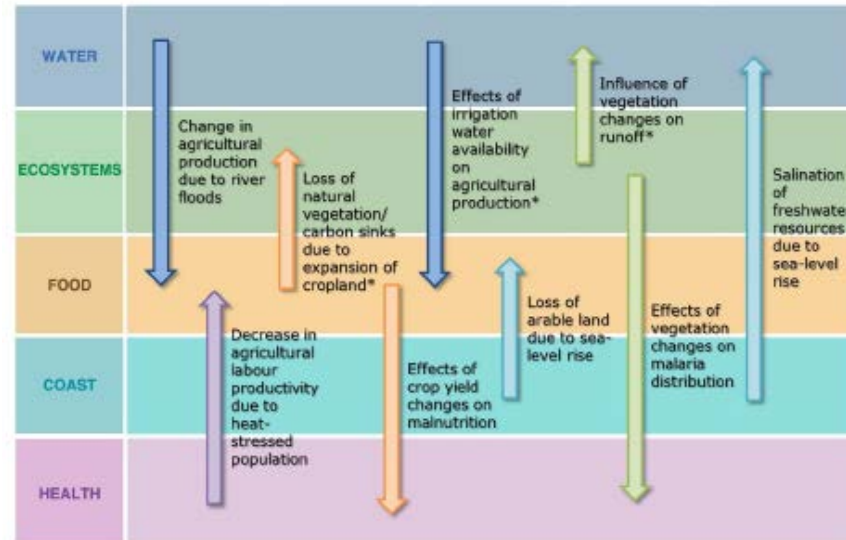
Why climate impacts across sectors?



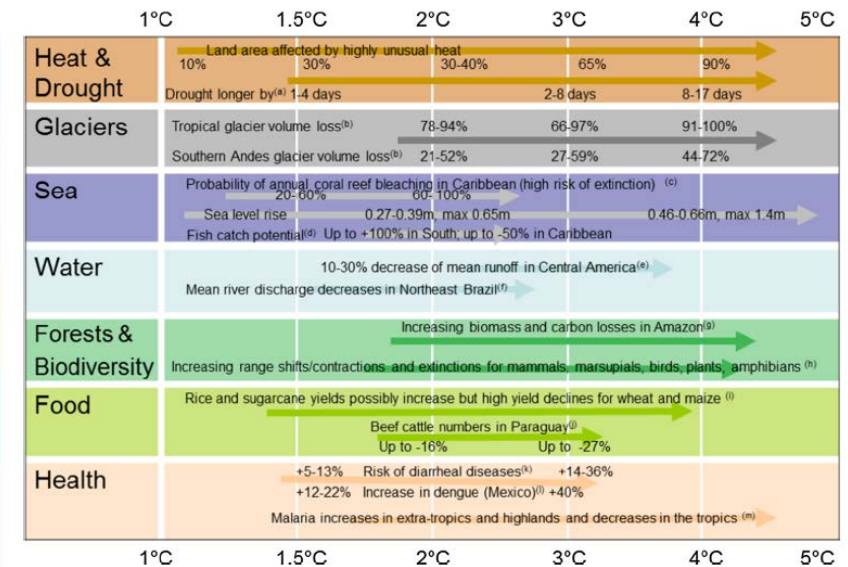
Why climate impacts across sectors?



Adger et al. 2007



Huber et al. 2014



World Bank 2014

Comprehensive understanding of climate change impacts across sectors for different levels of global warming

➔ for impact attribution, adaptation planning, motivating mitigation policies...

➔ Intersectoral Impact Model Intercomparison Project (ISIMIP)



Why PROCLIAS & ISIMIP

- Allow new scientists to join the network and contribute to ISIMIP
- Allow new scientists to learn how to use climate impact models and the data they produce
- Go beyond ISIMIP



Wikimedia (Pixabay)

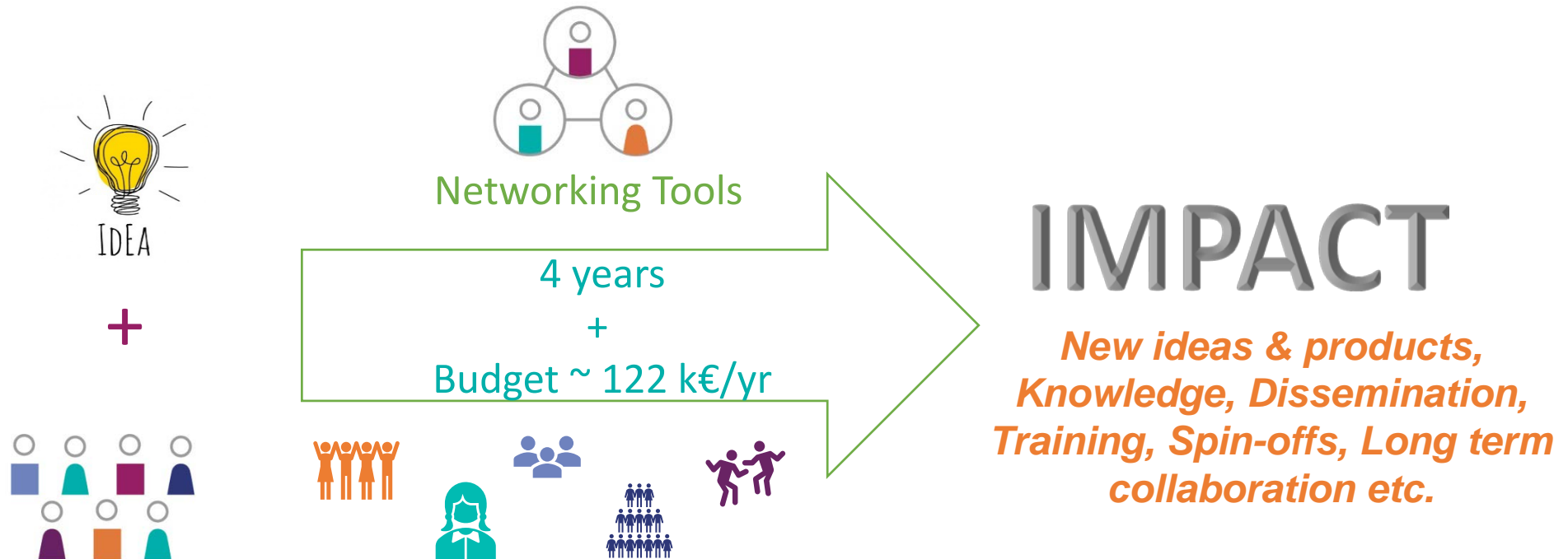
Registration has ended

Dear colleagues,

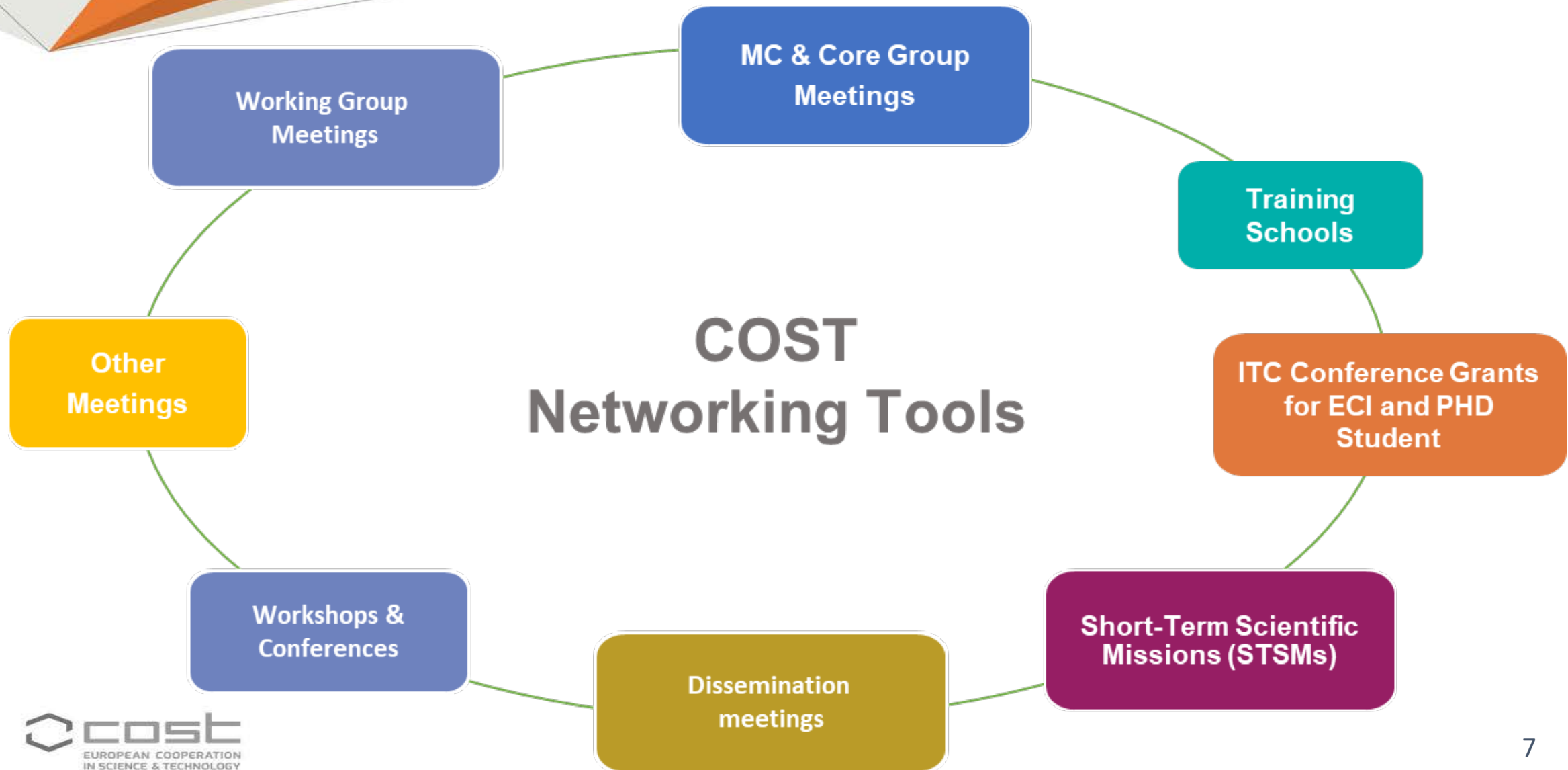
the aim of this webinar is to introduce the "The Inter-Sectoral Impact Model Intercomparison Project (ISIMIP)" to the participants of the COST Action PROCLIAS and of course every scientist who is interested in ISIMIP in general.

What is a COST Action?

“Open Spaces where ideas and people can grow without limits”



COST Networking Tools



PROCLIAS Network

Country	Date	Status
🌐 Albania	11/12/2020	Confirmed
🌐 Austria	22/06/2020	Confirmed
🌐 Belgium	15/06/2020	Confirmed
🌐 Bosnia and Herzegovina	23/04/2020	Confirmed
🌐 Croatia	28/09/2020	Confirmed
🌐 Czech Republic	18/06/2020	Confirmed
🌐 Denmark	28/05/2020	Confirmed
🌐 Estonia	29/04/2020	Confirmed
🌐 Finland	09/09/2020	Confirmed
🌐 Germany	22/04/2020	Confirmed
🌐 Greece	22/04/2020	Confirmed
🌐 Hungary	21/04/2020	Confirmed
🌐 Ireland	04/06/2020	Confirmed
🌐 Israel	11/05/2020	Confirmed

🌐 Italy	16/06/2020	Confirmed
🌐 Latvia	23/04/2020	Confirmed
🌐 Lithuania	30/10/2020	Confirmed
🌐 Malta	04/05/2020	Confirmed
🌐 Moldova	27/04/2020	Confirmed
🌐 Netherlands	06/10/2020	Confirmed
🌐 North Macedonia	11/05/2020	Confirmed
🌐 Norway	18/05/2020	Confirmed
🌐 Poland	21/07/2020	Confirmed
🌐 Portugal	28/05/2020	Confirmed
🌐 Romania	04/06/2020	Confirmed
🌐 Serbia	29/04/2020	Confirmed
🌐 Slovakia	29/04/2020	Confirmed
🌐 Slovenia	02/07/2020	Confirmed
🌐 Spain	18/06/2020	Confirmed
🌐 Sweden	30/06/2020	Confirmed
🌐 Switzerland	31/08/2020	Confirmed
🌐 Turkey	11/05/2020	Confirmed
🌐 United Kingdom	28/04/2020	Confirmed

95 MC Members and Substitutes



International participation

- **Tyler Eddy**, Memorial University in Newfoundland, Canada → modelling climate impacts on fish populations
- **Jonas Jägermeyr**, The University of Chicago / NASA Goddard Institute for Space Studies, US → modelling crop yields under climate change and link to the Agricultural Model Intercomparison Project (AgMIP)
- **Fang Zhao**, East China Normal University, China. → global flood and Earth system modeling

→ Mutual benefit for this Action:

- cooperation on model and protocol development
- teachers to specific Training Schools
- International expert speakers

PROCLIAS Steering Group

Chair: C. Reyer

Vice-Chair, WG3 Lead: V. Huber

Communications Representative: A. Sofo

Gender, ECI and ITC Officer: E. Vaculovski

ITC Conference Grant Manager: J.P. Teixeira

STSM Coordinator: K. Merganicova

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Many ISIMIP task groups within PROCLIAS

- TG: Land-use pattern for ISIMIP3
- TG: Automatic QC/QA of ISIMIP model output data
- TG: High resolution climate data
- TG: Data-Model Interactions: What data are modellers and model users actually needing?
- TG: Forest modelling uncertainties
- TG: Country-scale forest models comparison
- TG: Health modelers und economic/IAM modelers
- TG: “blind spots analysis”: which impacts are we missing out?
- TG: Water quality
- TG: Permafrost-fire interactions
- TG: Marine-terrestrial interactions (biodiversity, food...)
- Training Schools on ISIMIP data and impact models

Group picture

- Turn your camera on
- Put your best face on

Next steps

- Set up Task Groups within the WGs
- Call for STSM ongoing
- PROCLIAS Homepage
- Introduction Webinars

Learn about PROCLIAS and get involved

Wednesday 13-1-2021 from 10:15-11:45 am CET

→ general introduction to PROCLIAS and presentation of aims and objectives of each Working Group (WG)

Thursday 14-1-2021 from 2-3:30 pm CET

→ break out session discussing tasks and ideas for:

WG1 “Common datasets and protocols for climate impact modelling”

WG2 “Impact attribution and uncertainty assessments”

Friday 15-1-2021 from 11:15-12:45 pm CET

→ break out session discussing tasks and ideas for:

WG3 “Cross-sectoral climate impacts”

WG4 “Communication and dissemination of climate impacts”

Friday 15-1-2021 from 2-2:45pm CET

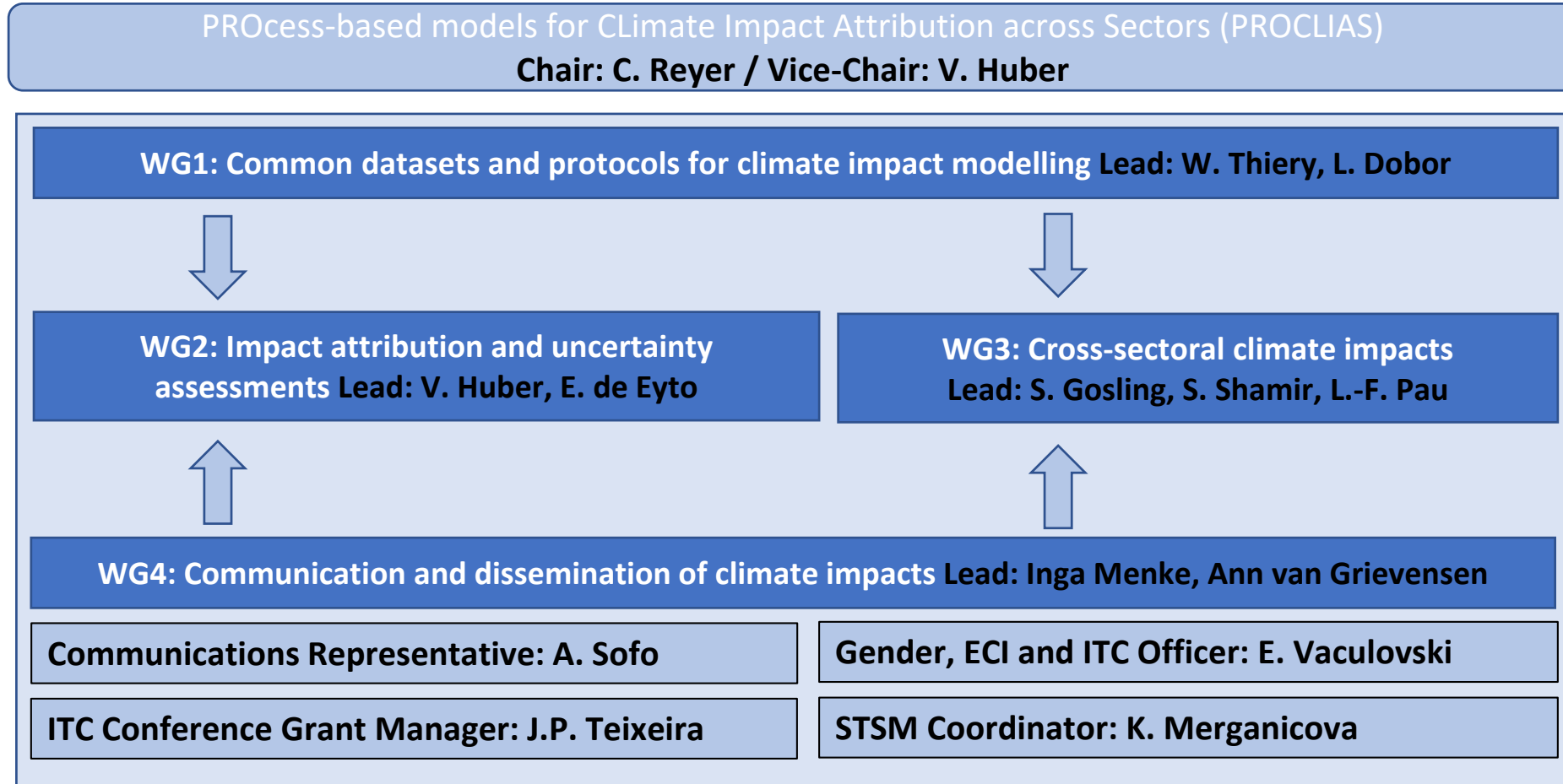
→ results of WG meetings and next steps

Friday 15-1-2021 from 2:45-3:30pm CET

→ MC meeting (MC members only)

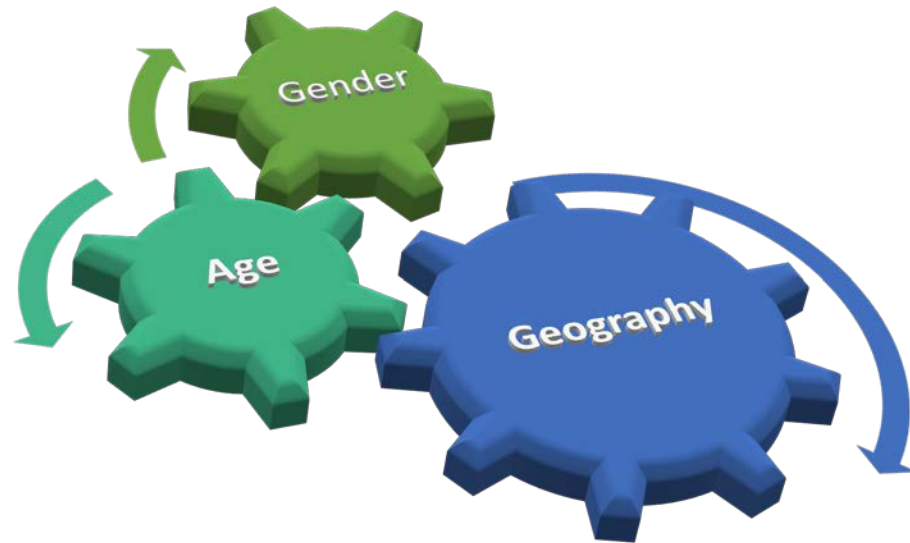
→ All Zoom links to join the sessions are available through the ISIMIP workshop Agenda

Cost Action CA19139 – Process-based models for climate impact attribution across sectors (PROCLIAS)



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COST Excellence and Inclusiveness Policy



Special measures for Early Career Investigators (ECI)

ECI = PhD + less than 8 years experience

Special measures for Inclusiveness Target Countries (ITC) in H2020

Albania, Bosnia and Herzegovina, Bulgaria, Cyprus, Czech Republic, Estonia, Croatia, Hungary, Lithuania, Latvia, Luxembourg, Malta, Moldova, Montenegro, North Macedonia, Poland, Portugal, Romania, Slovenia, Slovakia, Republic of Serbia and Turkey.

- COST Members
- COST Members (ITCs)
- Other countries
- COST Cooperating Member
- COST Partner Member

