



**OptimESM**

Optimal high resolution **Earth System Models**  
for exploring future climate change

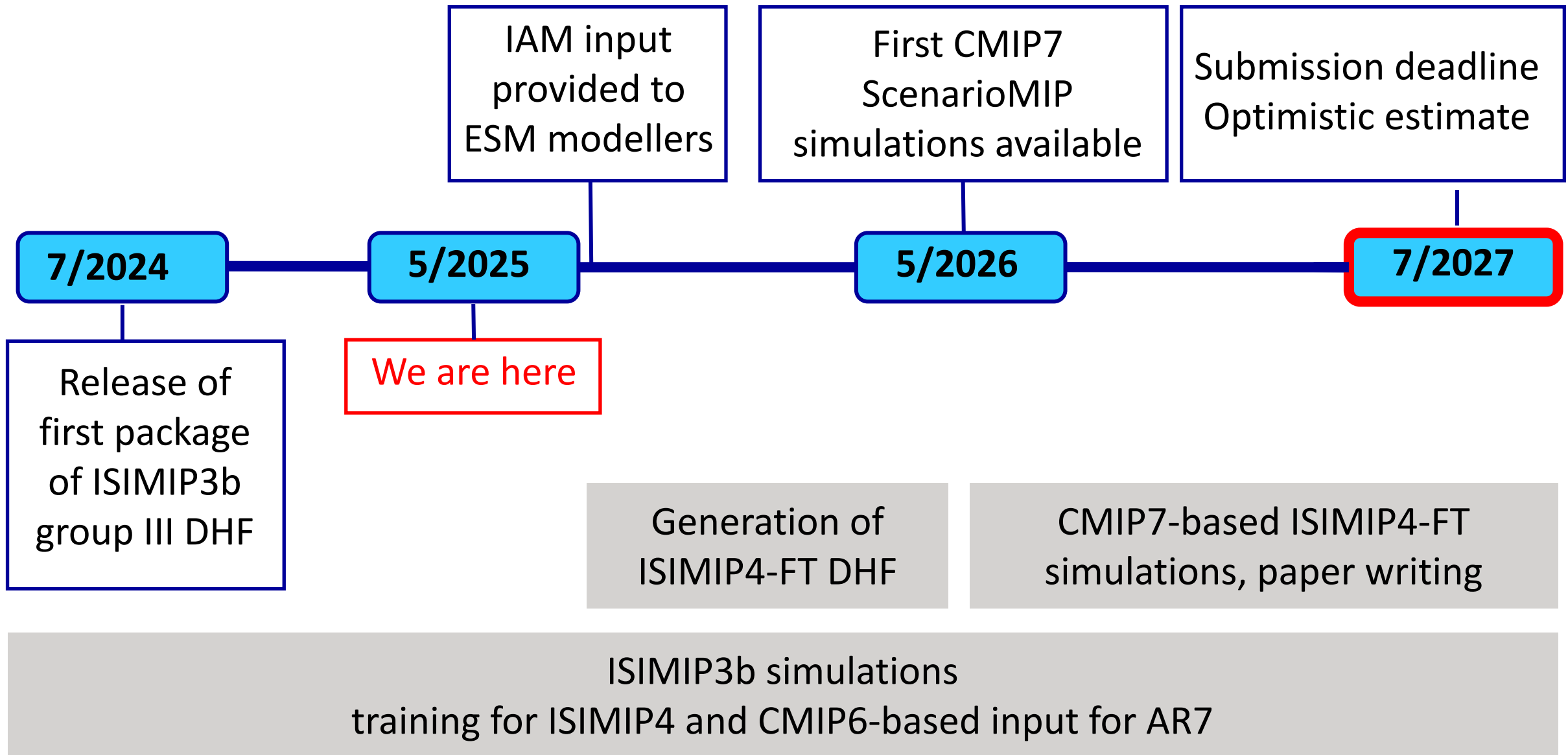


**ISIMIP**  
Inter-Sectoral Impact Model  
Intercomparison Project

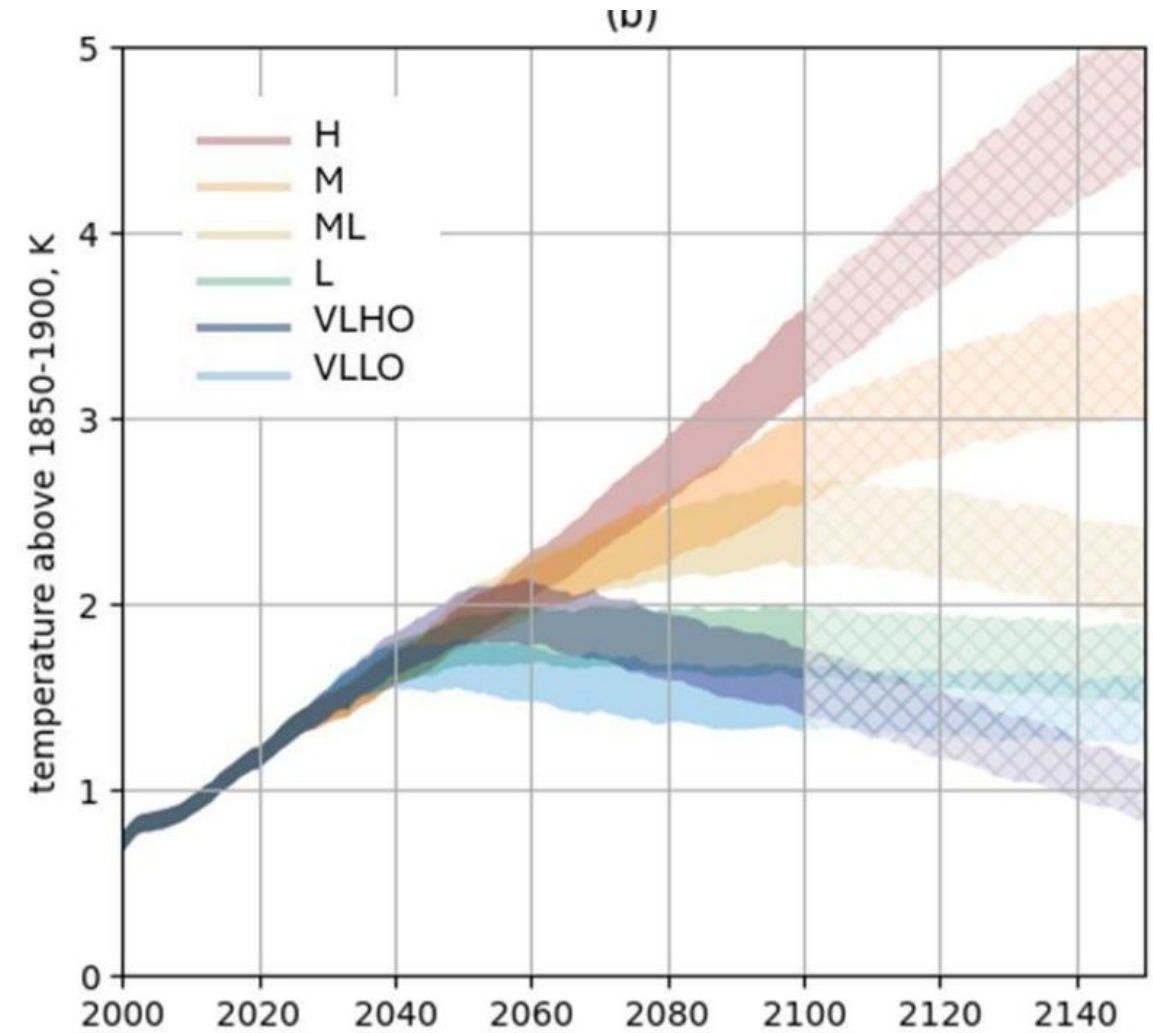
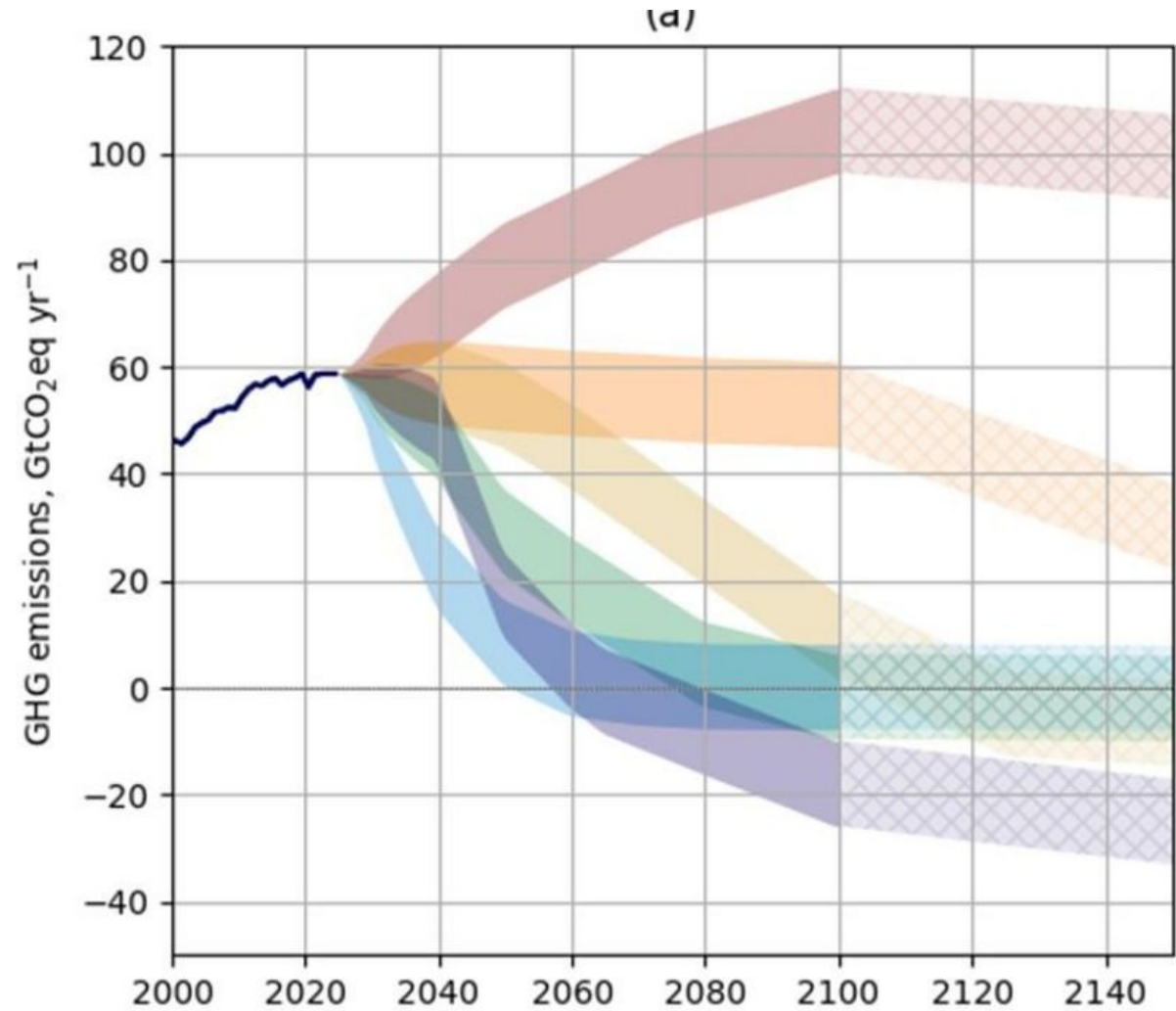
# Scenarios and Timeline for contributions to IPCC AR7 (ISIMIP4-FastTrack)

- Which ESM-simulations will be available first, what will be new?
- Will it be feasible to develop CMIP7-based ISIMIP4 simulations in time for IPCC AR7 (an ISIMIP4 “Fast Track”)?

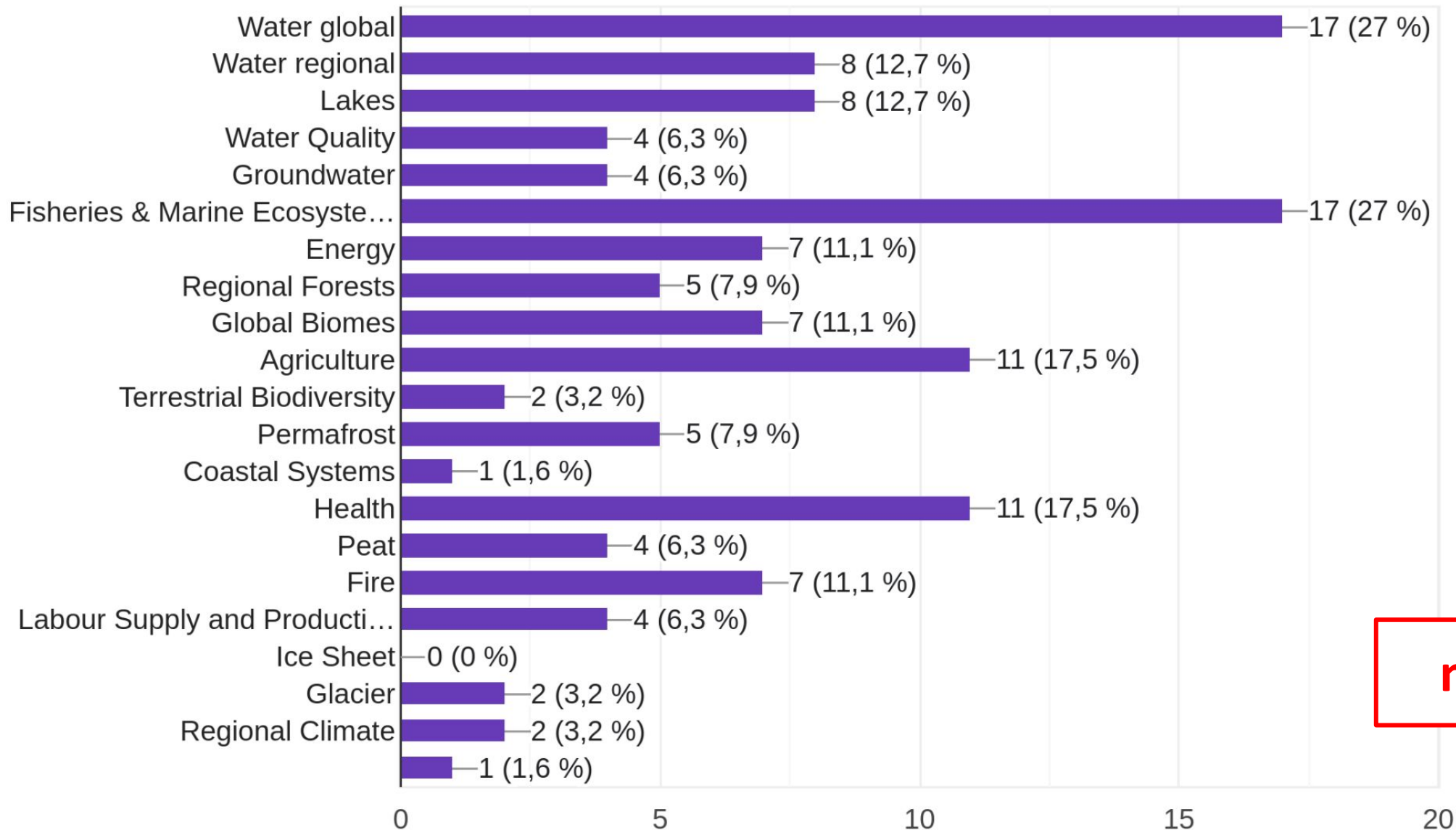
# ISIMIP3 / ISIMIP4 Timeline to AR7



# ScenarioMIP scenarios for CMIP7

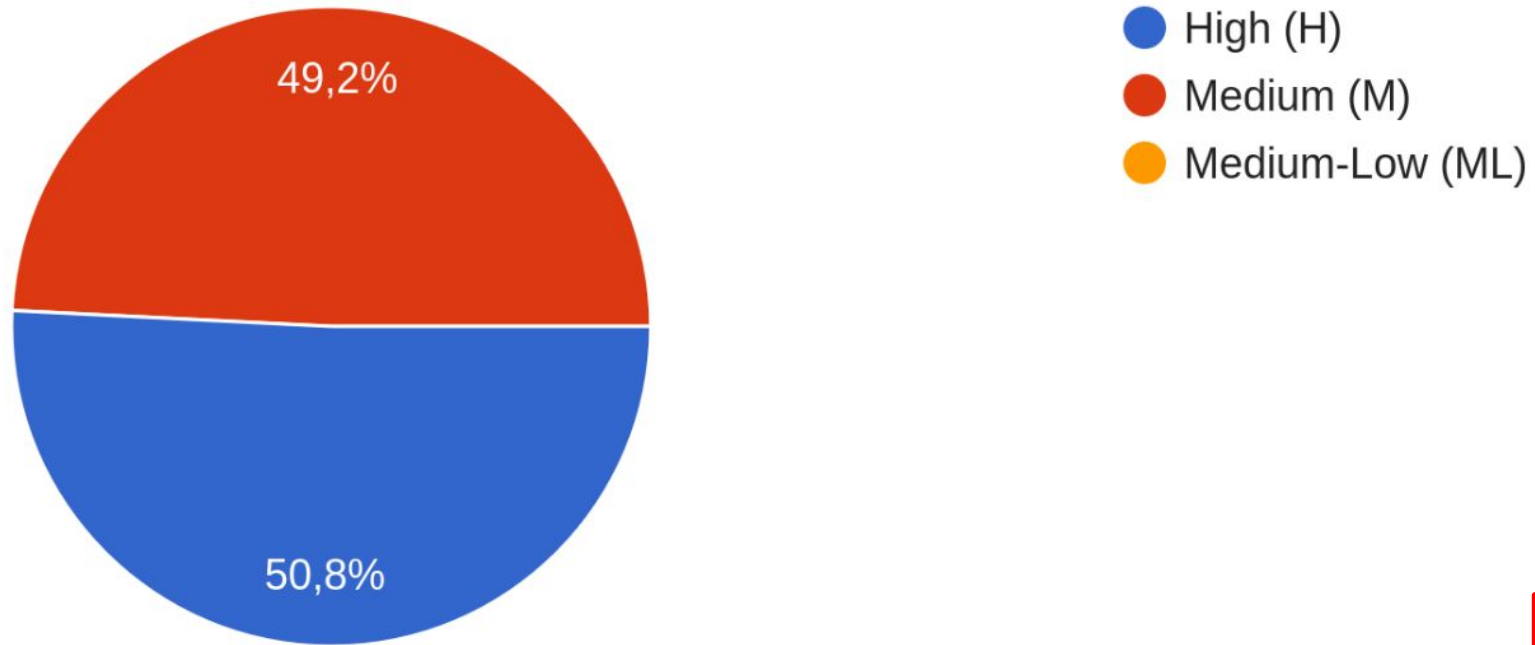


# Which sector is represented by your (impact) model?



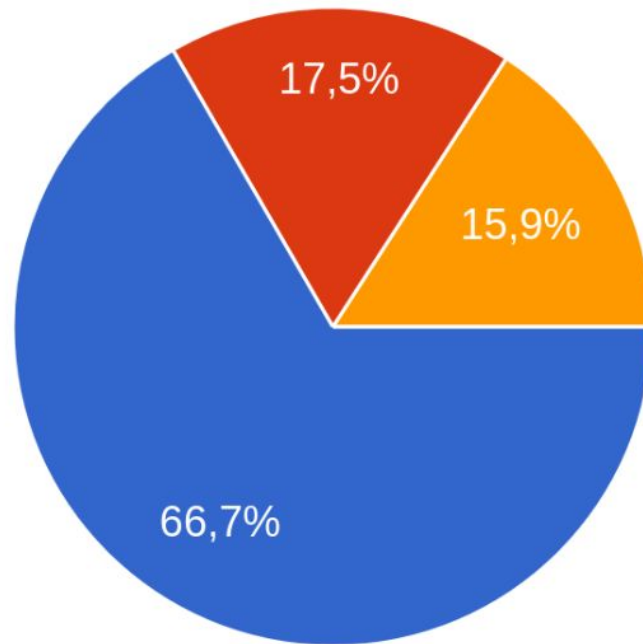
**n=63**

# Which high scenario would you prefer to be available first?



**n=63**

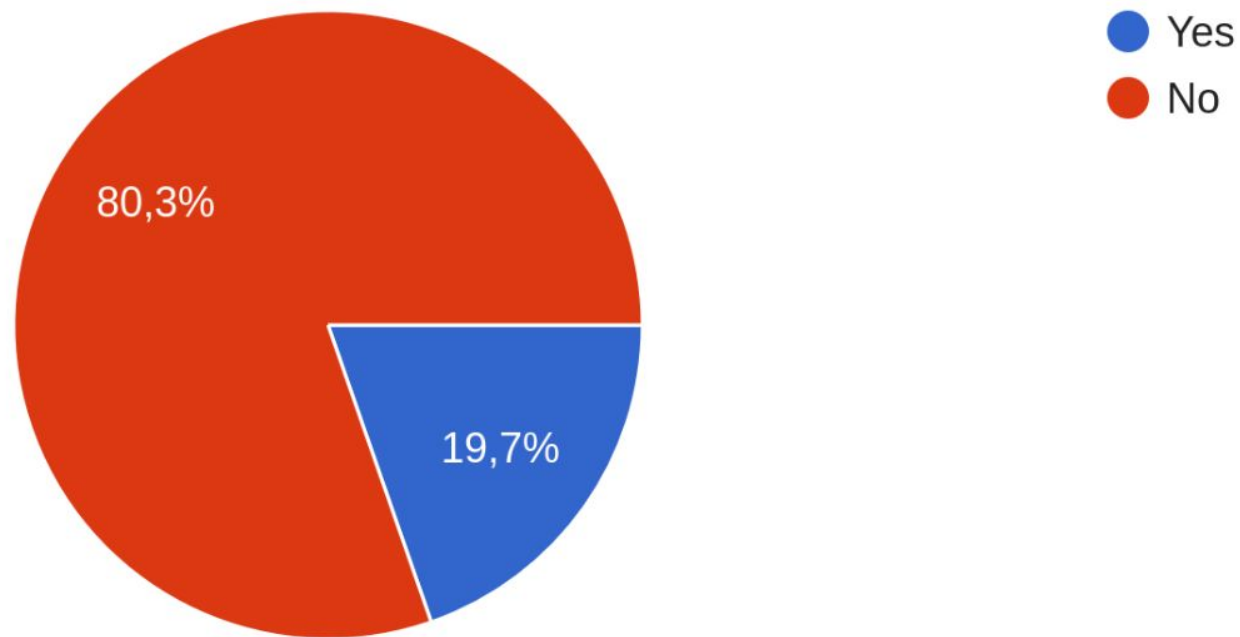
## Which low scenario would you prefer to be available first?



- Low (L)
- Very Low with Limited Overshoot (VLLO)
- Very Low after High Overshoot (VLHO)

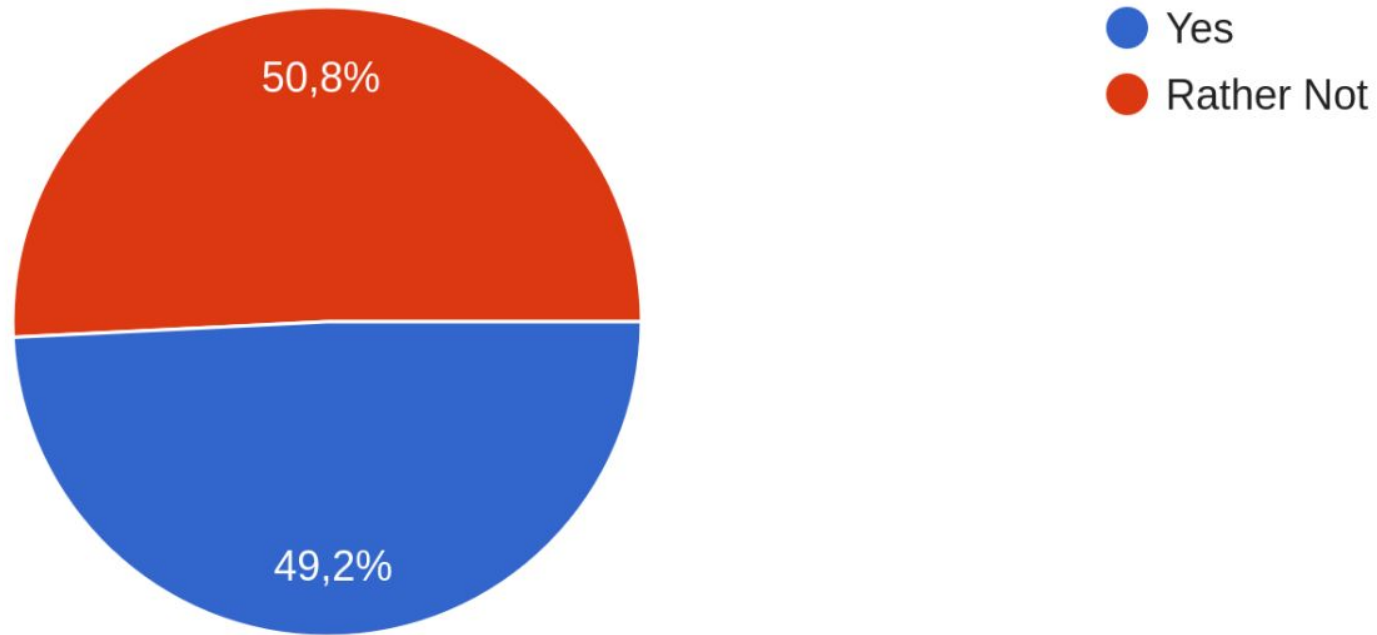
**n=63**

Some of the scenarios include a temperature “overshoot”. Does your model miss any process that you think is highly relevant when it comes to the representation of the impacts of an overshoot scenario? (If yes, please specify below).



**n=61**

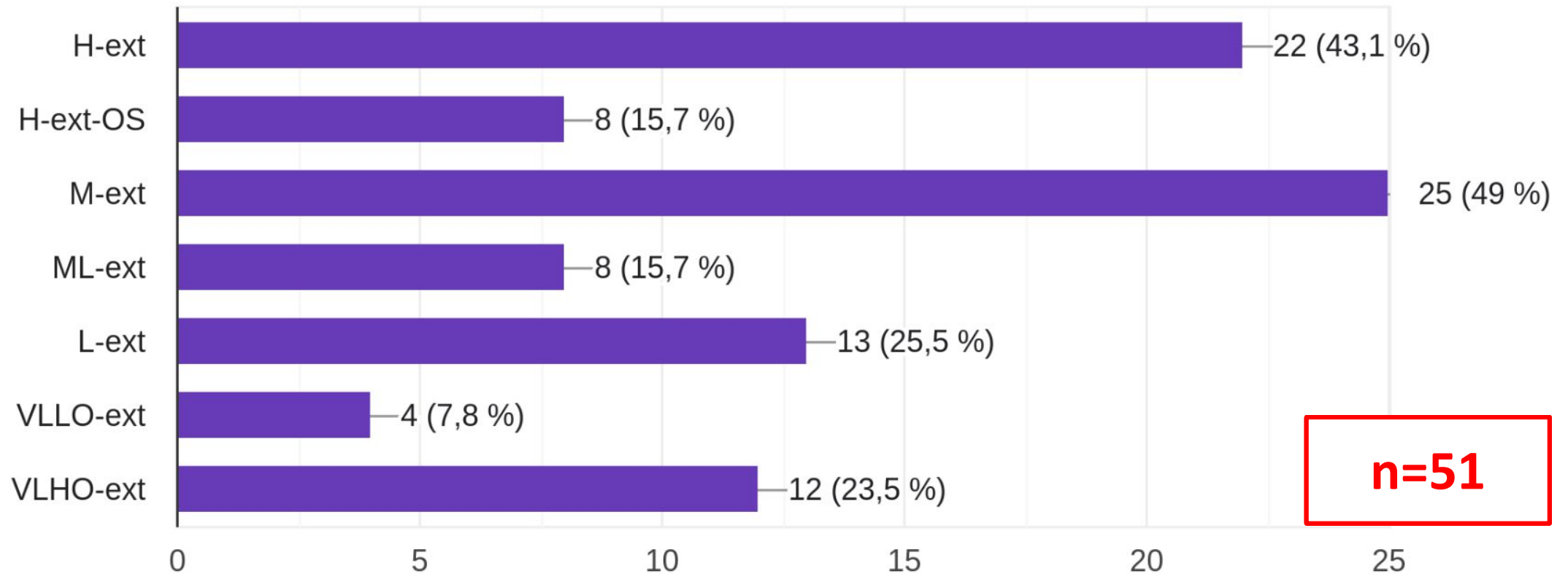
# Would you consider running extended scenarios (until 2500)?



**n=63**



Which of the proposed extensions until 2500 would you prioritize given that not all climate models will run all extensions (please do not select more than 2 options)?



# Starting Questions for panelists

1. What is the latest IPCC timeline towards AR7? (Bart)
2. When will the first CMIP7 Earth System Model (ESM) runs be available? (Torben)
3. What will be the advantages of switching to CMIP7- compared to CMIP6-based (Helene)  
impact simulations, e.g. regarding bias-correction, representation of extremes, etc.?
4. What is the status and timeline of IAM-runs? (Nico)

## Additional questions on options to speed up the process

1. Could CMIP help selecting the ESMs or select them for ISIMIP? (Helene/Torben)
2. Are you evaluating the new ESM runs yourself with the ESMval-Tool centrally? Or per group upon submission to CMIP? (Helene/Torben)

# Starting Questions for panelists

## Additional questions on data availability

1. Changes in lightning densities for all ESMs? (Helene/Torben)
2. Ozone data? (Helene/Torben/Nico)
3. peatland fraction

# Second round of questions to panelists

## More general questions

1. **What do you think ISIMIP should deliver for AR7? (Bart)**
2. **What are the main challenges in the generation of the Report (political situation in the US, delay of decisions about deadlines, will the Report still inform the GST?) (Bart)**