

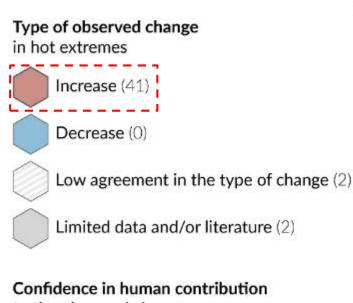




CLIMATE CHANGE 2023 Synthesis Report

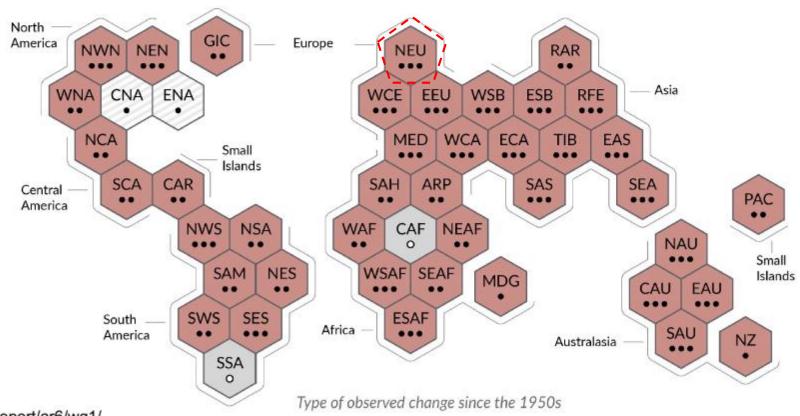
Climate change is already affecting every inhabited region across the globe, with human influence contributing to many observed changes in weather and climate extremes

a) Synthesis of assessment of observed change in **hot extremes** and confidence in human contribution to the observed changes in the world's regions



to the observed change

- • High
 - Medium
 - Low due to limited agreement
 - Low due to limited evidence



SPM: Summary for policymakers, https://www.ipcc.ch/report/ar6/wq1/

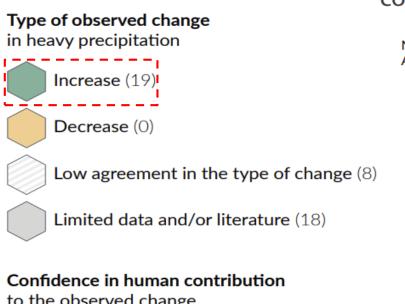






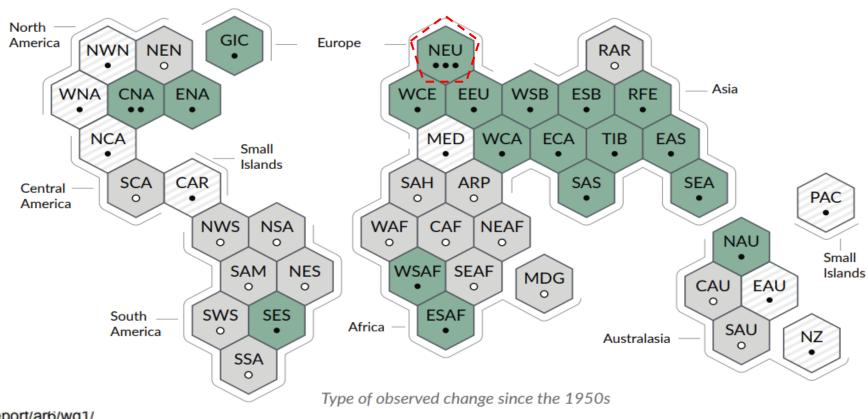
Climate change is already affecting every inhabited region across the globe, with human influence contributing to many observed changes in weather and climate extremes

(b) Synthesis of assessment of observed change in **heavy precipitation** and confidence in human contribution to the observed changes in the world's regions



to the observed change

- ●●● High
 - Medium
 - Low due to limited agreement
 - Low due to limited evidence



SPM: Summary for policymakers, https://www.ipcc.ch/report/aro/wq1/





Climate change is already affecting every inhabited region across the globe, with human influence contributing to many observed changes in weather and climate extremes

(c) Synthesis of assessment of observed change in agricultural and ecological drought and confidence in human contribution to the observed changes in the world's regions

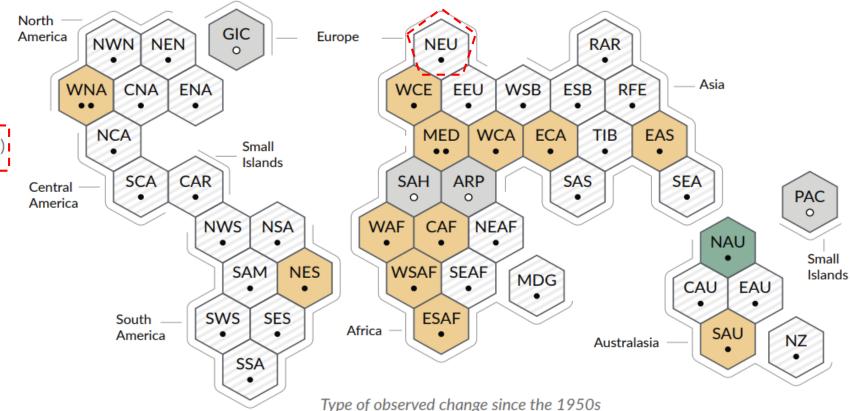
Type of observed change in agricultural and ecological drought Increase (12) Decrease (1) Low agreement in the type of change (28)

Limited data and/or literature (4)

Confidence in human contribution

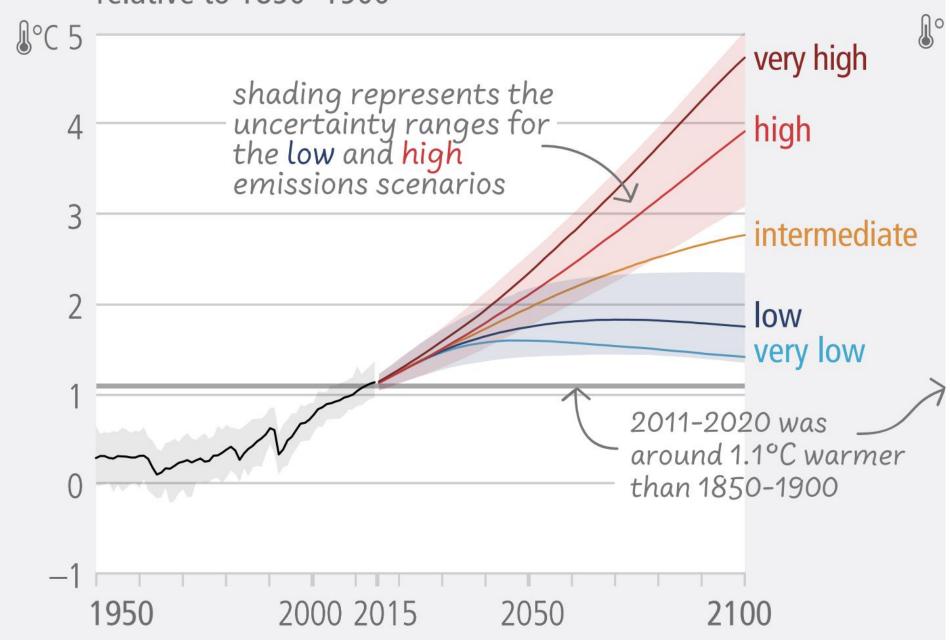
to the observed change

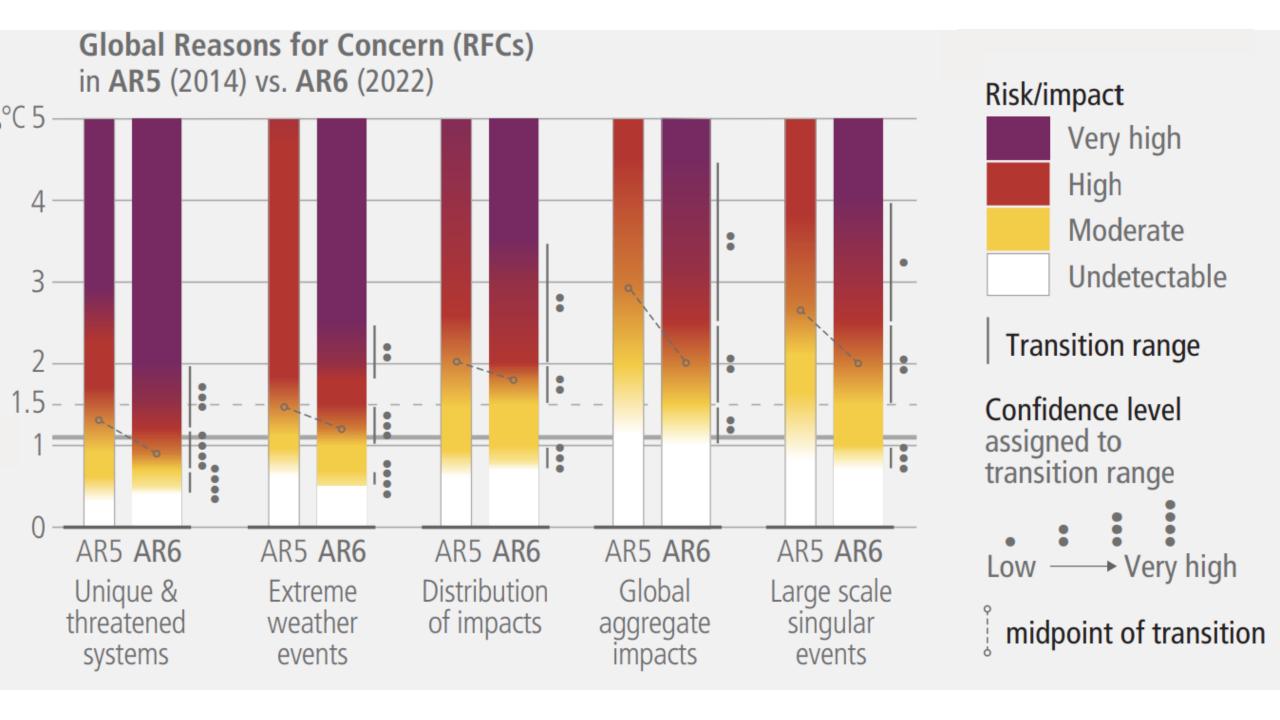
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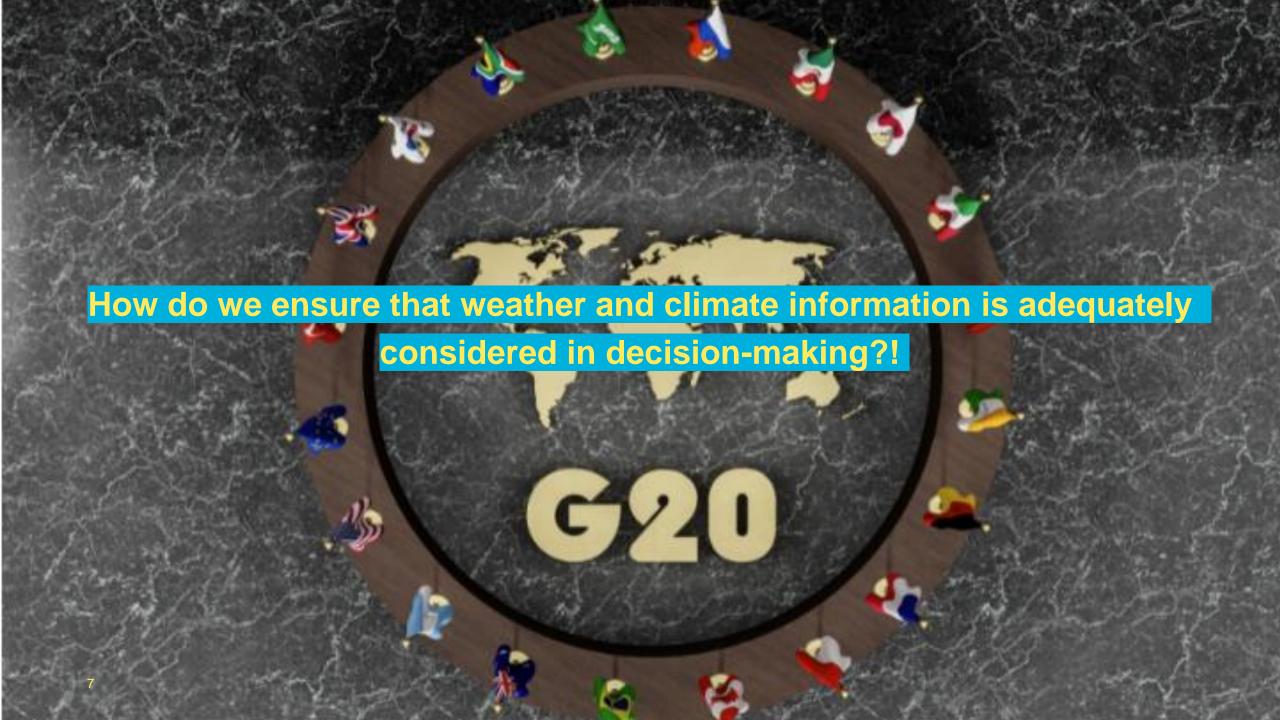


SPM: Summary for policymakers, https://www.ipcc.ch/report/aro/wq1/

Global surface temperature change relative to 1850–1900







Decision makers ask



What is the potential climate-related impact on our economies and societies today and over the coming decades?



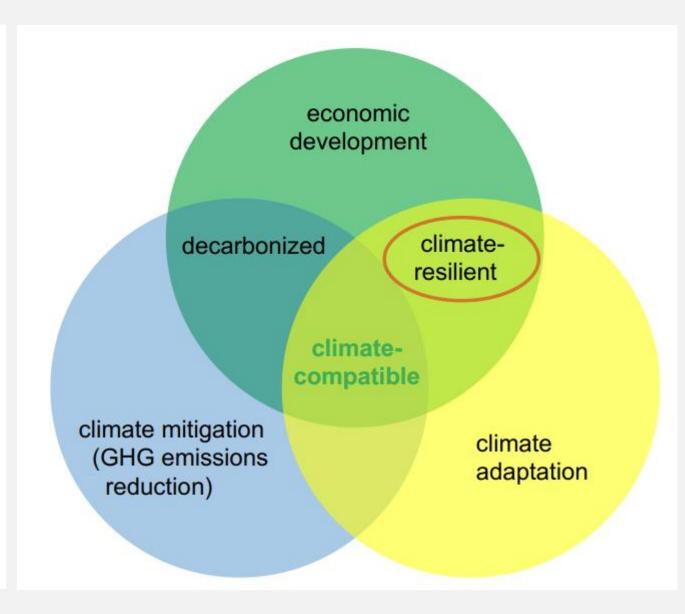
How can we best manage, what options do we have?



What investment will be required to fund these measures - and will the benefits of these investment outweigh the costs?

What is a climate resilient economy?

The capacity to survive, successfully adapt and prosper in the face of change and uncertainty related to disturbances, whether they be caused by resource stresses, societal stresses and/or acute [weather and climate-related] events



Bresch et al., 2014, Turbulence, Amsterdam University Press https://oapen.org/download?type=document&docid=477310

Enabling climate-resilient development Economics of Climate Adaptation



Provide decision makers on local to national scales with the facts and methods necessary to design and execute an adaptation strategy to natural hazards in a changing climate, in a robust and replicable way



Rigorous risk management approach to assess (quantify) risk today, additional risk due to socio-economic development and climate change



Rigorous risk management approach to propose, appraise and prioritize a basket of adaptation measures to address weather and climate risk on an economic basis

What are the impacts of delayed mitigation and adaptation action?



Increase global warming and losses and damages will rise and additional human and natural systems will reach adaptation limits.



Risk of cost escalation, lock-in of infrastructure, stranded assets, and reduced feasibility and effectiveness of adaptation and mitigation options.



Increase in projected adverse impacts in Africa, Central and South America, Asia and the Arctic, and will disproportionately affect the most vulnerable populations.

Thank you