

# Climate and nature-related risks dominate the WEF Global Risk Register

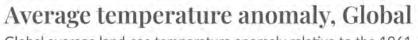


#### Top 5 Global Long-term Risks in terms of likelihood

	2020	2021	2022	2023	2024
1	Extreme weather	Extreme weather	Climate action failure	Failure to mitigate climate change	Extreme weather events
2	Climate action failure	Climate action failure	Extreme weather	Failure of climate change adaptation	Critical change to Earth's systems
3	Natural disasters	Human-made environmental damage	Biodiversity loss	Natural disasters and extreme weather	Biodiversity loss
4	Biodiversity loss	Infectious diseases	Social cohesion erosion	Biodiversity loss	Natural resource shortages
5	Human-made environmental disaster	Biodiversity loss	Livelihood crises	Large scale involuntary migration	Misinformation and disinformation

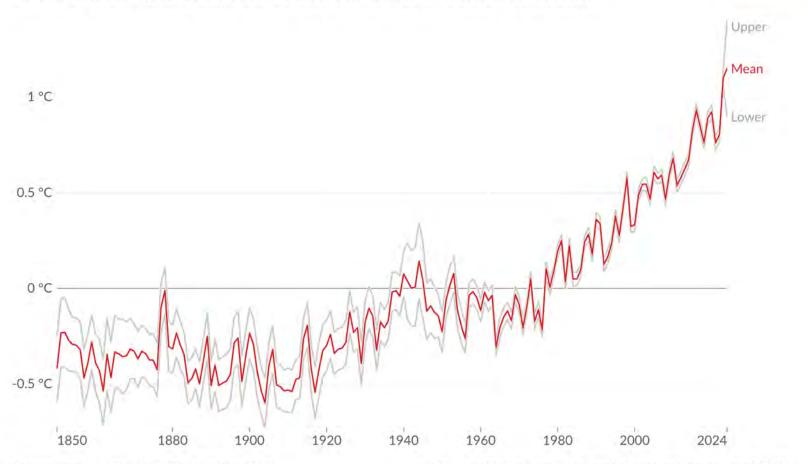
# **Global Temperature Rise**





Our World in Data

Global average land-sea temperature anomaly relative to the 1961-1990 average temperature.



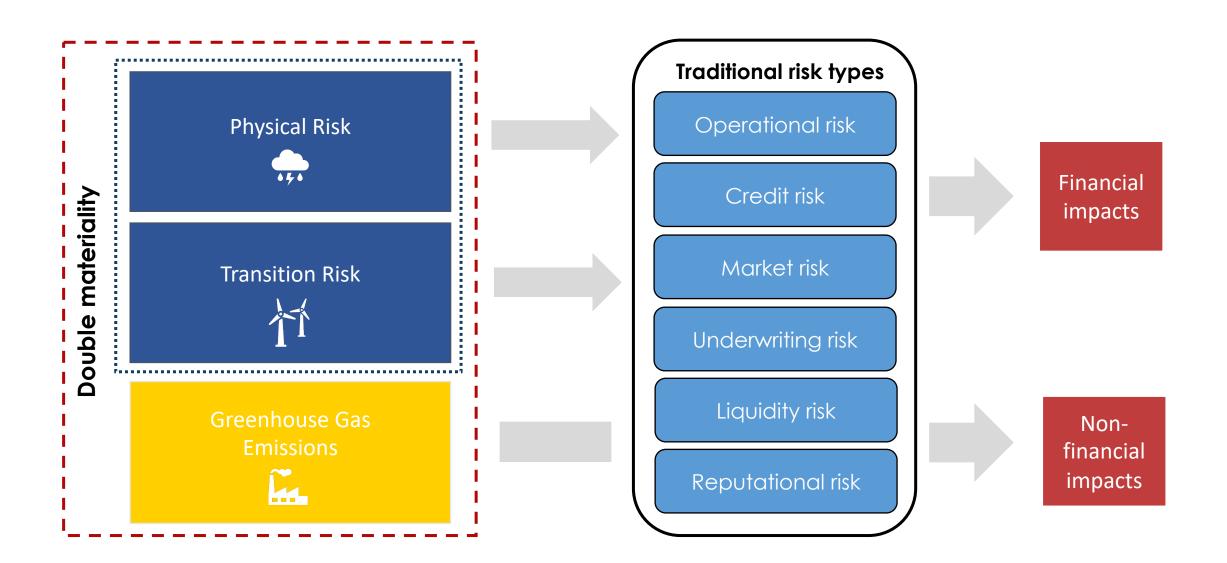
Data source: Met Office Hadley Centre (2023)

OurWorldInData.org/co2-and-greenhouse-gas-emissions | CC BY

Note: The gray lines represent the upper and lower bounds of the 95% confidence intervals.

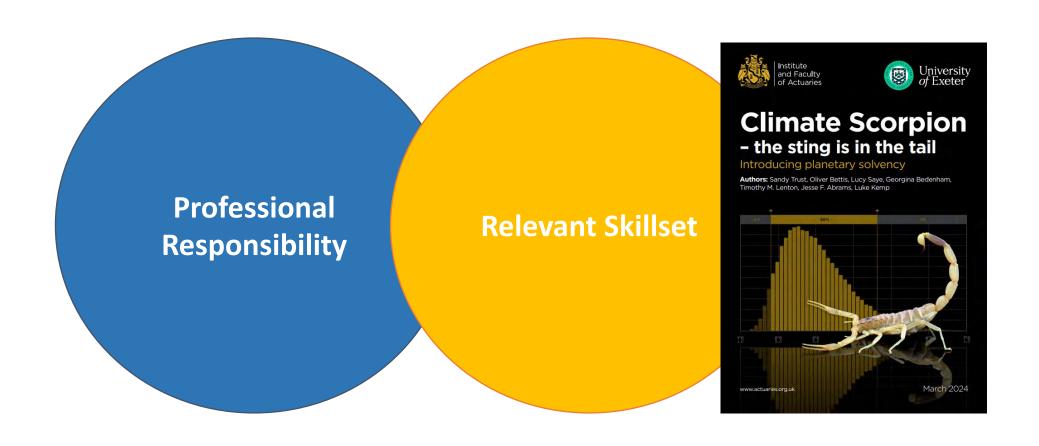
### Climate Risk > Economic Risk > Financial Risk





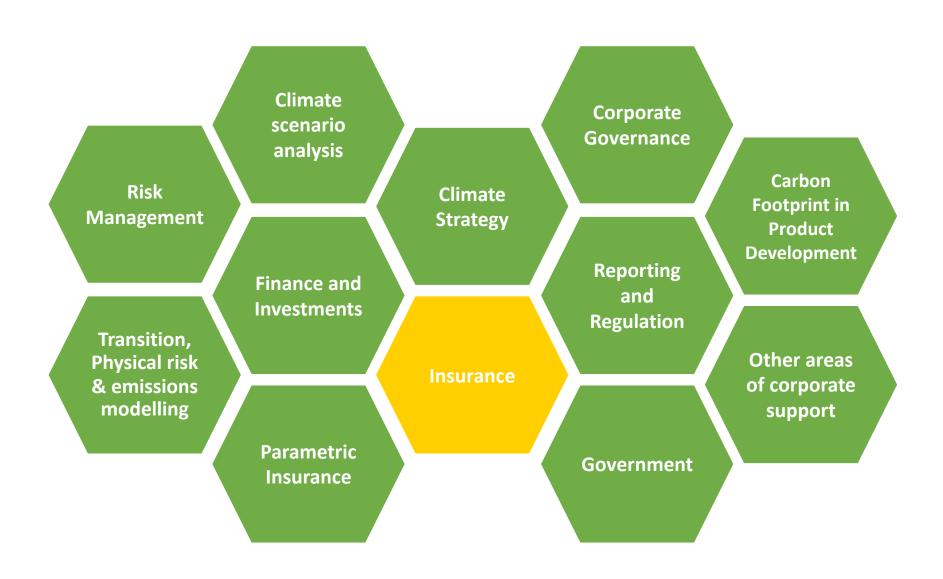
## **Actuaries and the Climate Crisis**





# ACTUARIAL ADAPTATION: EXPLORING NEW ROLES FOR ACTUARIES IN RESPONSE TO CLIMATE CHANGE





## **Actuarial Climate Roles in Insurance**



#### **HEADLINE FIGURES**



\$417 billion

losses from Nat Cat in 2024



\$1.9 trillion

global climate finance flows in 2023

2.4% of global climate finance to MENA

#### **ACTUARIAL ROLES**

#### **Underwriting**



Pricing and product development



Strategy development



Client advocacy and transition planning



Other: risk management, reserving, reporting etc.

#### **Investment**



Investment analysis and selection



Investment policy, strategy and targets



Stewardship



Other: risk management, valuation, data, reporting etc.