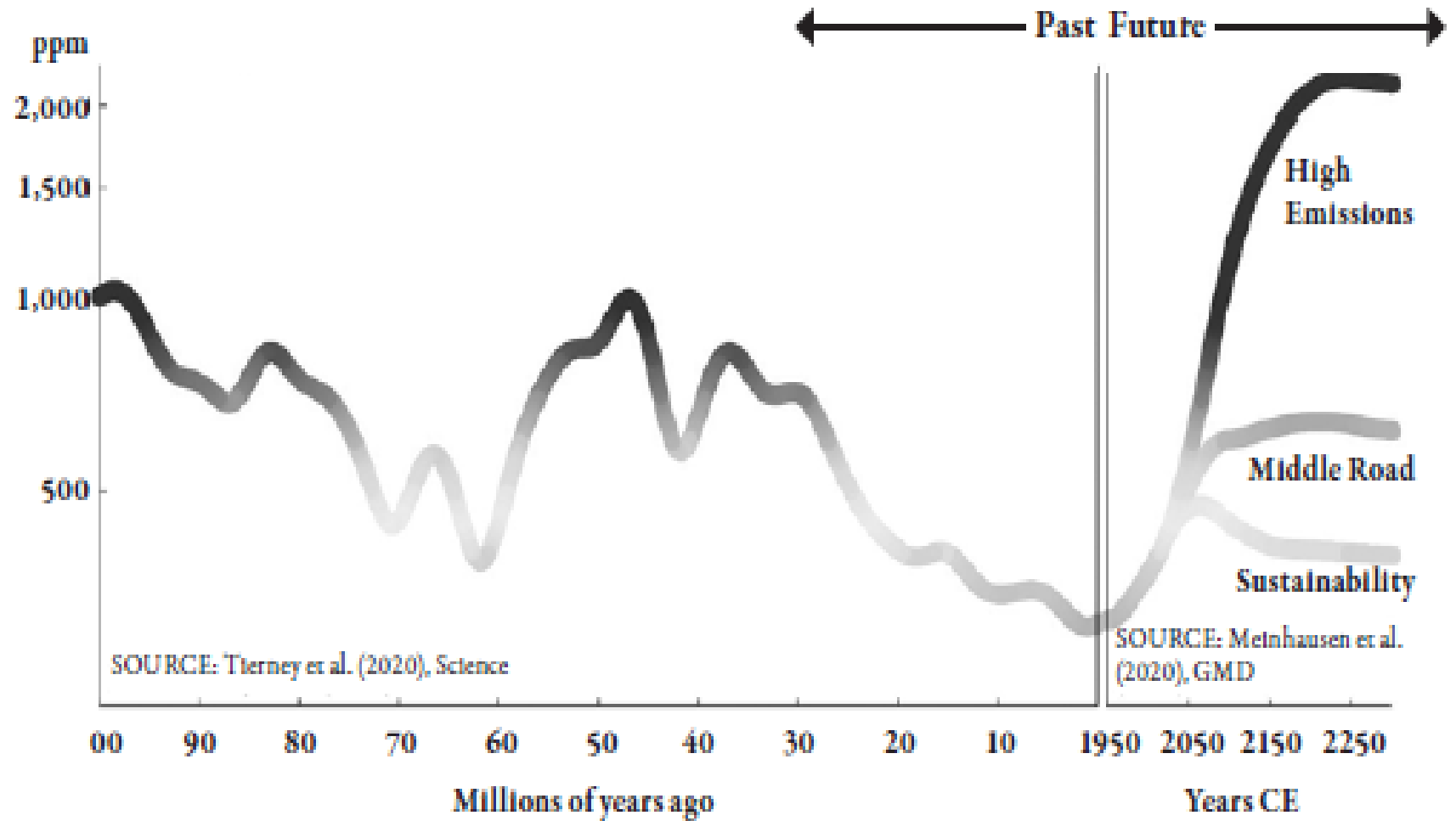


GHG LEVELS AT 419ppm NOT SEEN FOR 16-20M YEARS



mackintoshs@group30.org

SURFACE AIR TEMPERATURE ANOMALY • 2023

Reference period: 1991–2020 • Data: ERA5 • Credit: C3S/ECMWF

Averages and anomalies

Slow and sudden

Non-linear

Fat-tails matter

Tipping points matter

Costs are leaping

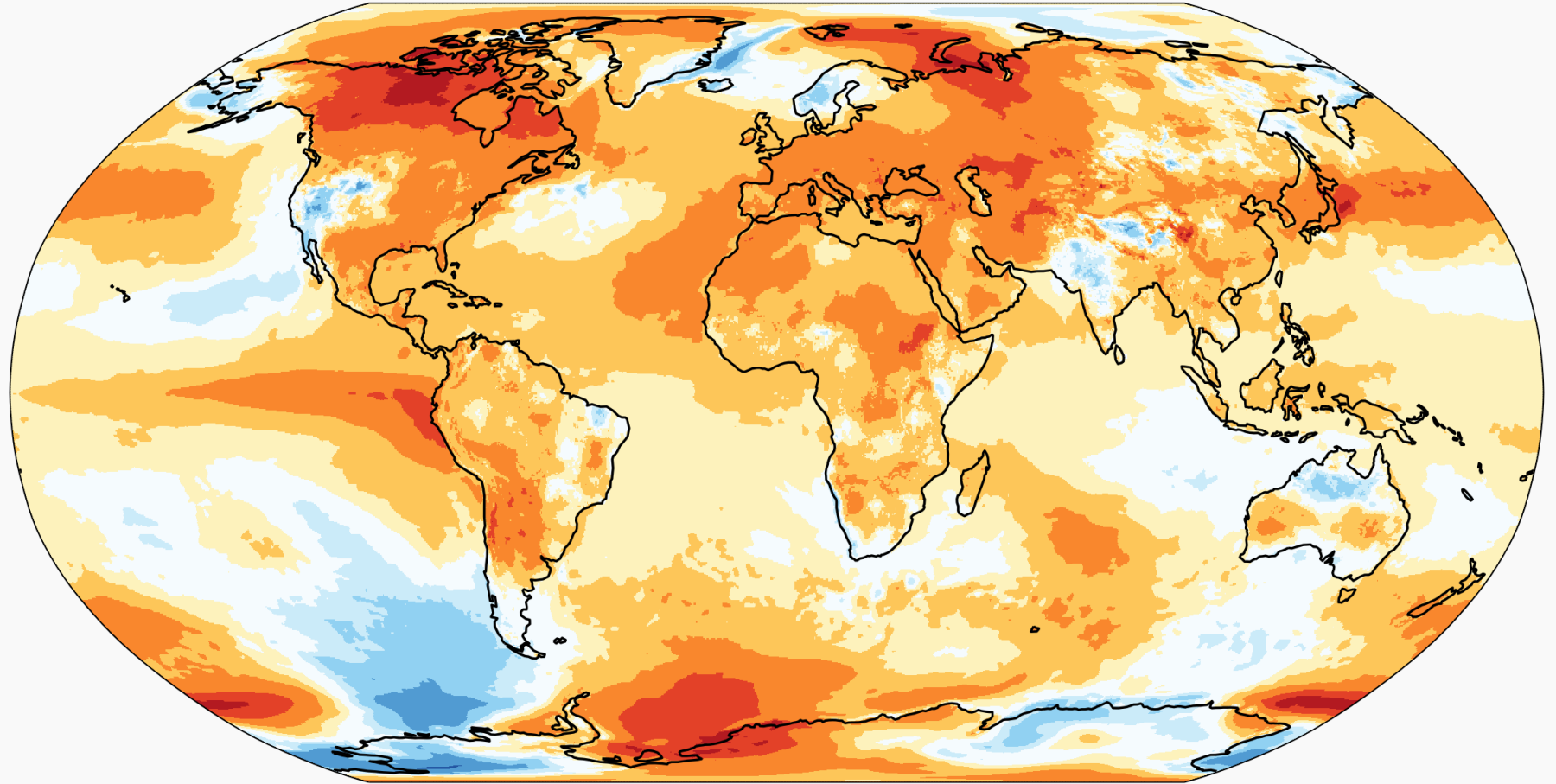
Models are lagging

Action is lacking

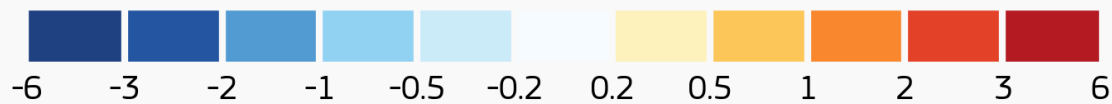
\$520bn costs per annum

20-40% wage impacts

20% GDP losses



Temperature anomaly (°C)



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