

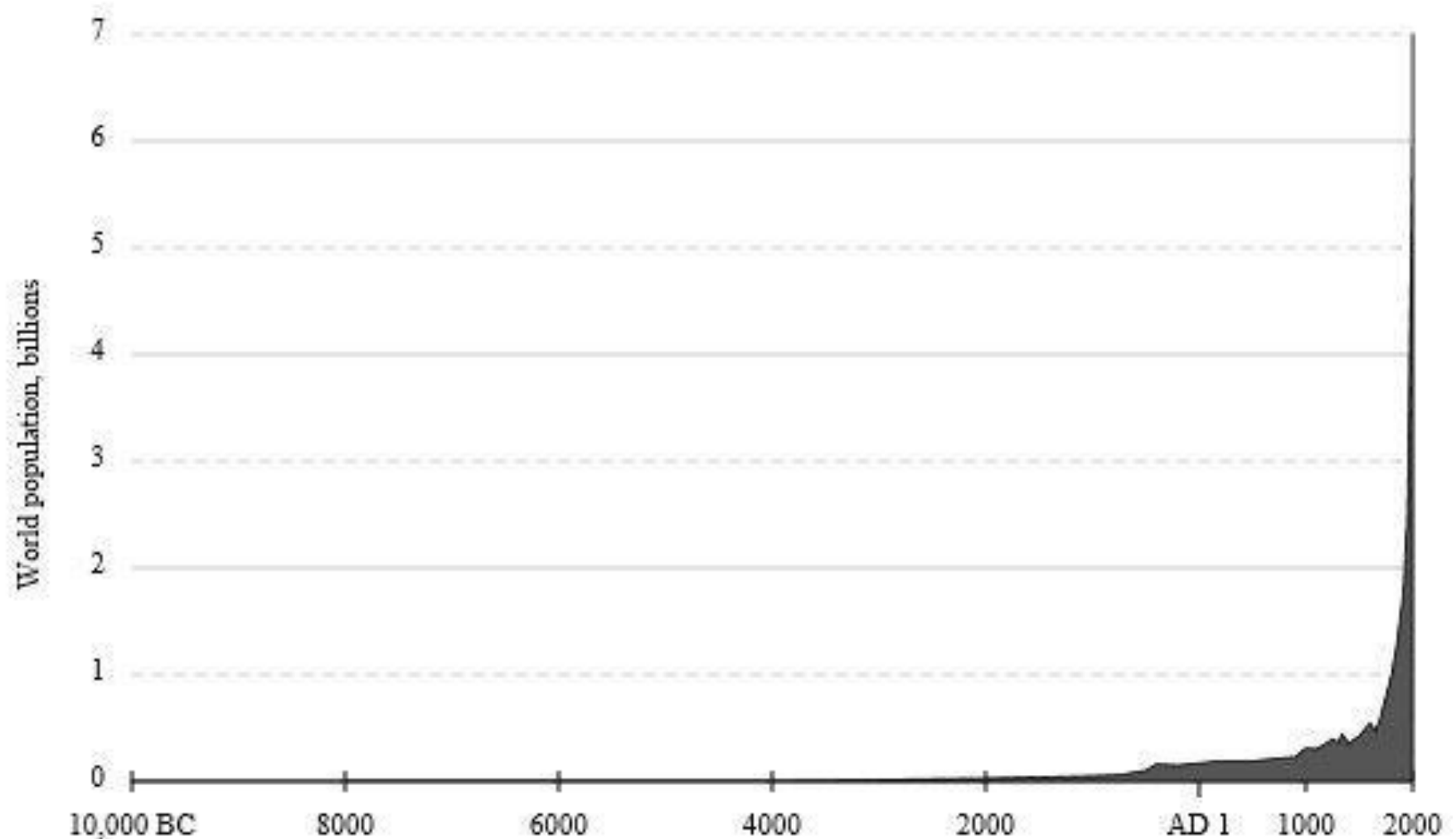


6th Inclusive and Sustainable Finance Conference

The Future of Sustainability & Sustainable Finance

Prof. Dr. Hakan LUCIUS

World Population



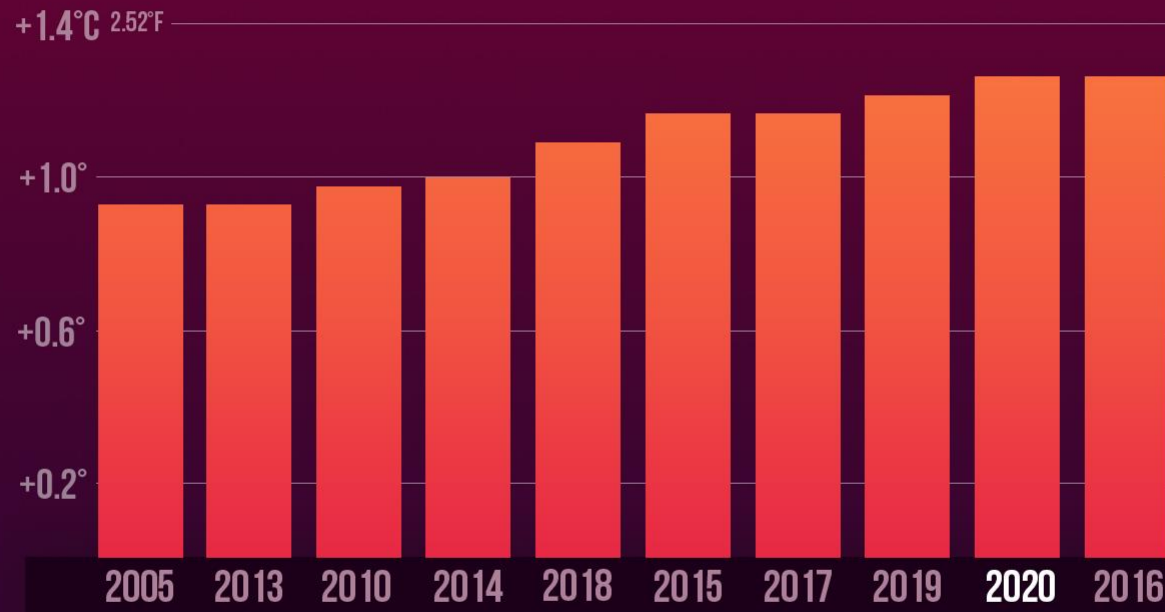


Climate Change





Living in the hottest years

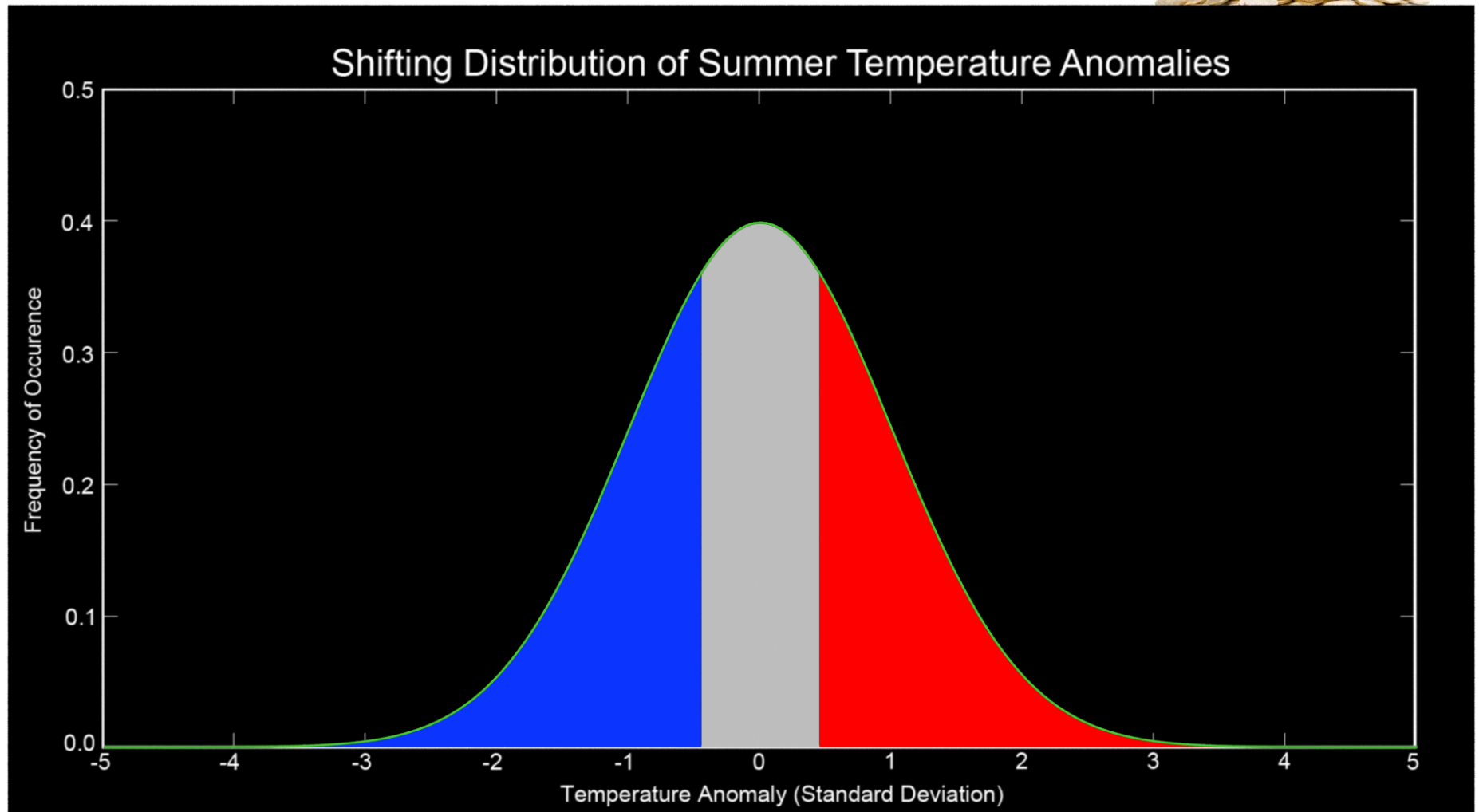


Source: NASA GISS & NOAA NCEI global temperature anomalies averaged and adjusted to early industrial baseline (1881-1910). Data as of 1/14/2021.

CLIMATE  CENTRAL



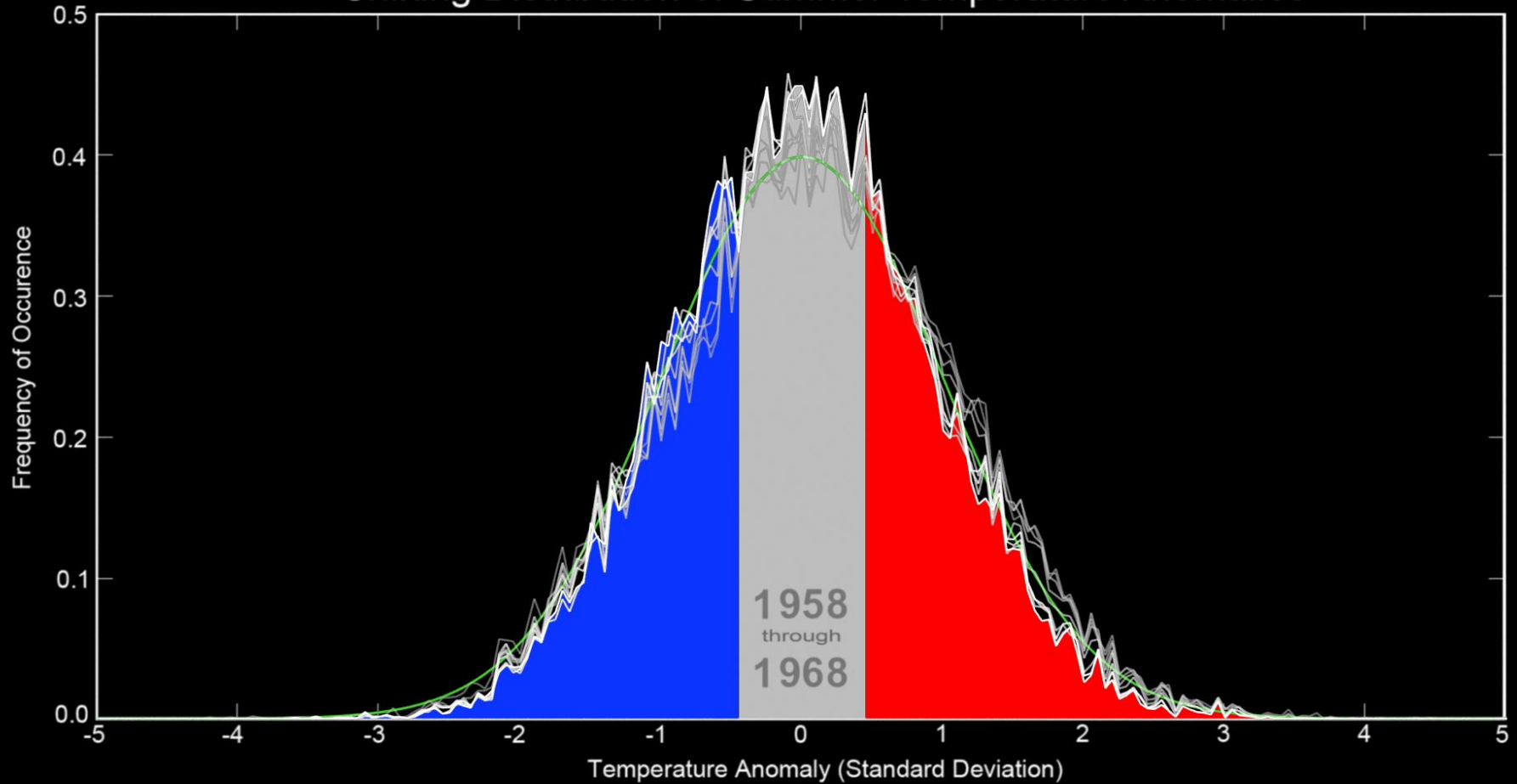
It is the extremes that hit us !



Source: <https://svs.gfc.nasa.gov>



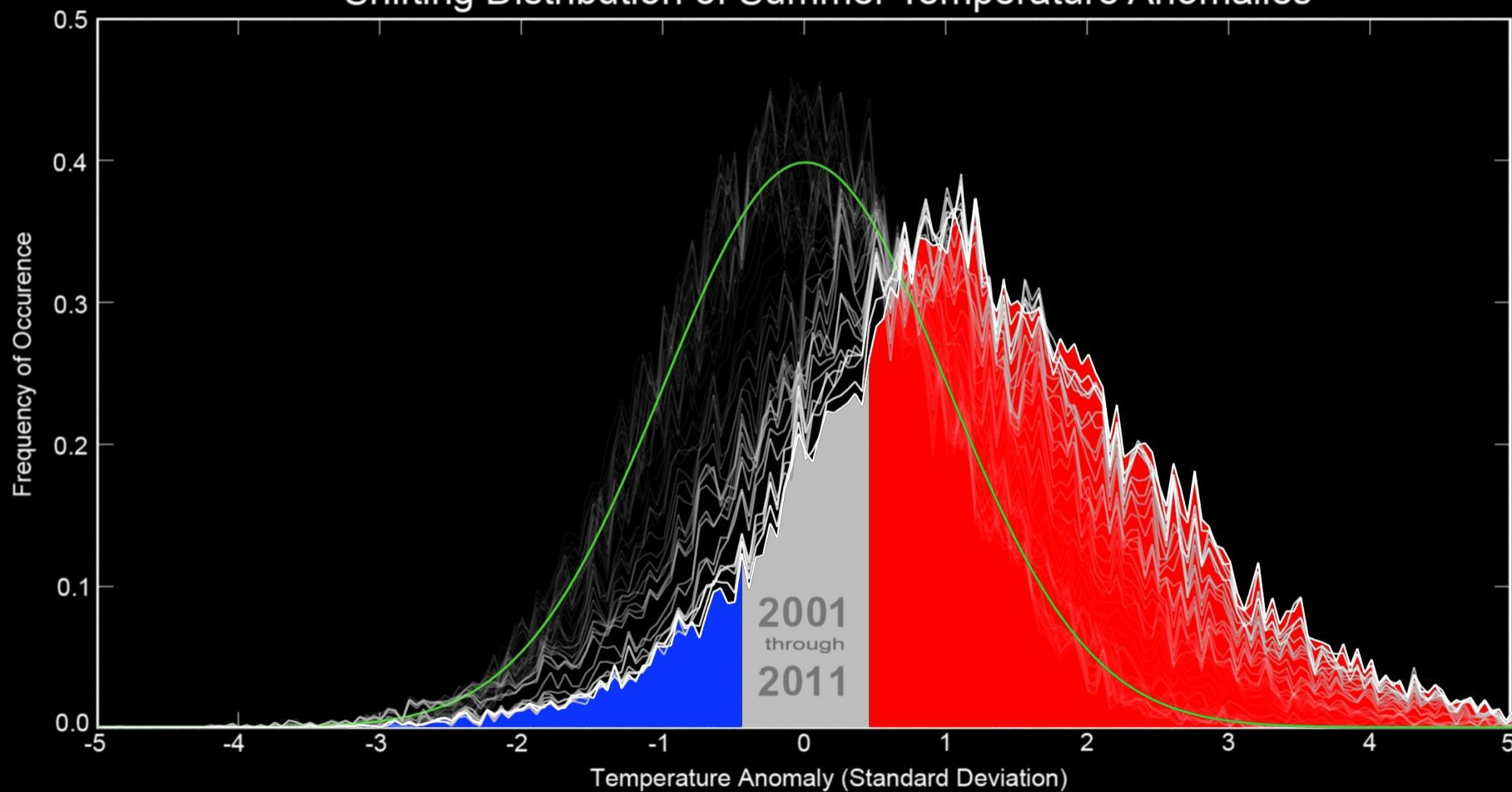
Shifting Distribution of Summer Temperature Anomalies



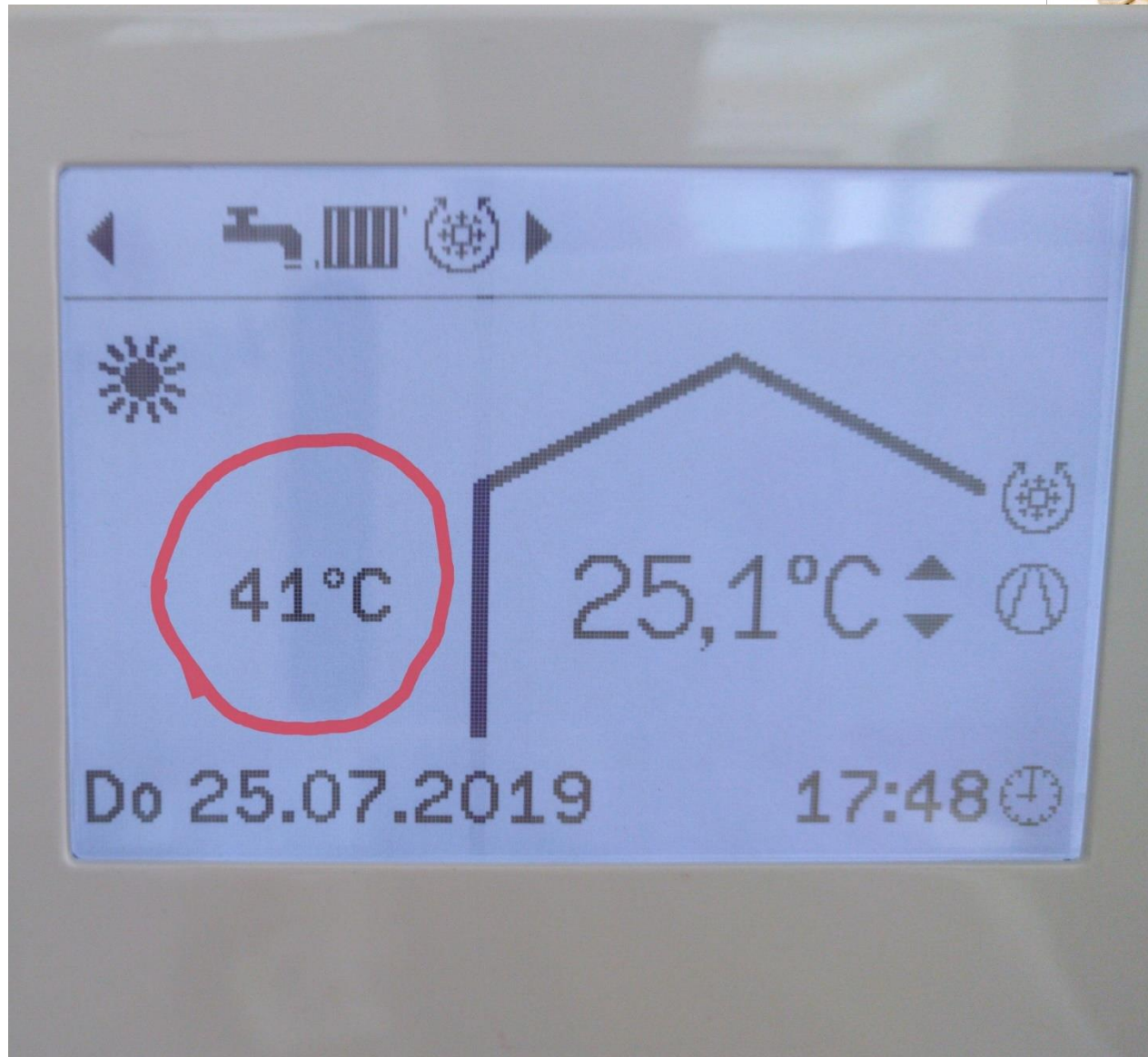
Source: <https://svs.gfc.nasa.gov>



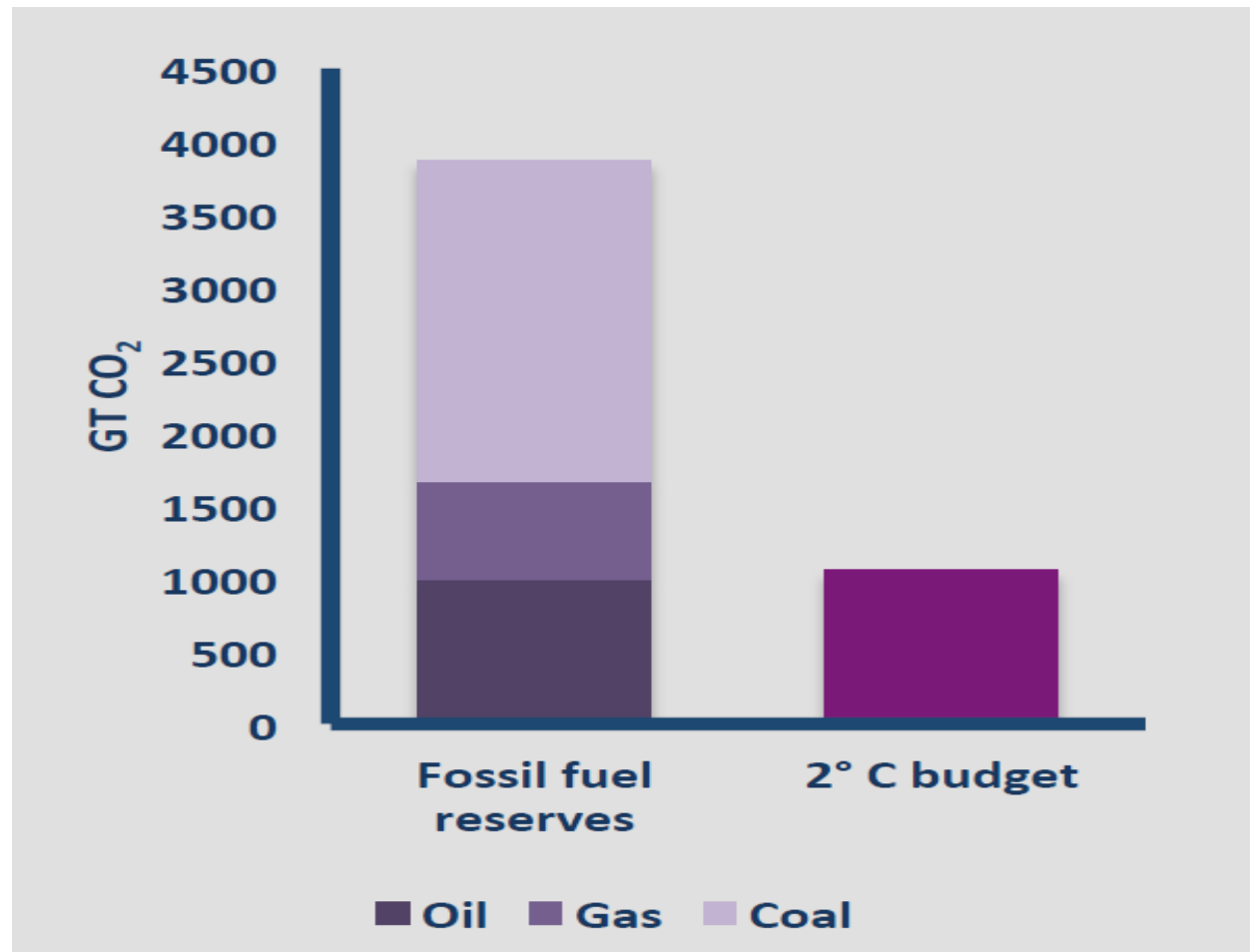
Shifting Distribution of Summer Temperature Anomalies



Source: <https://svs.gfc.nasa.gov>



How much carbon can we burn ?



Source: 2 degrees investing initiative

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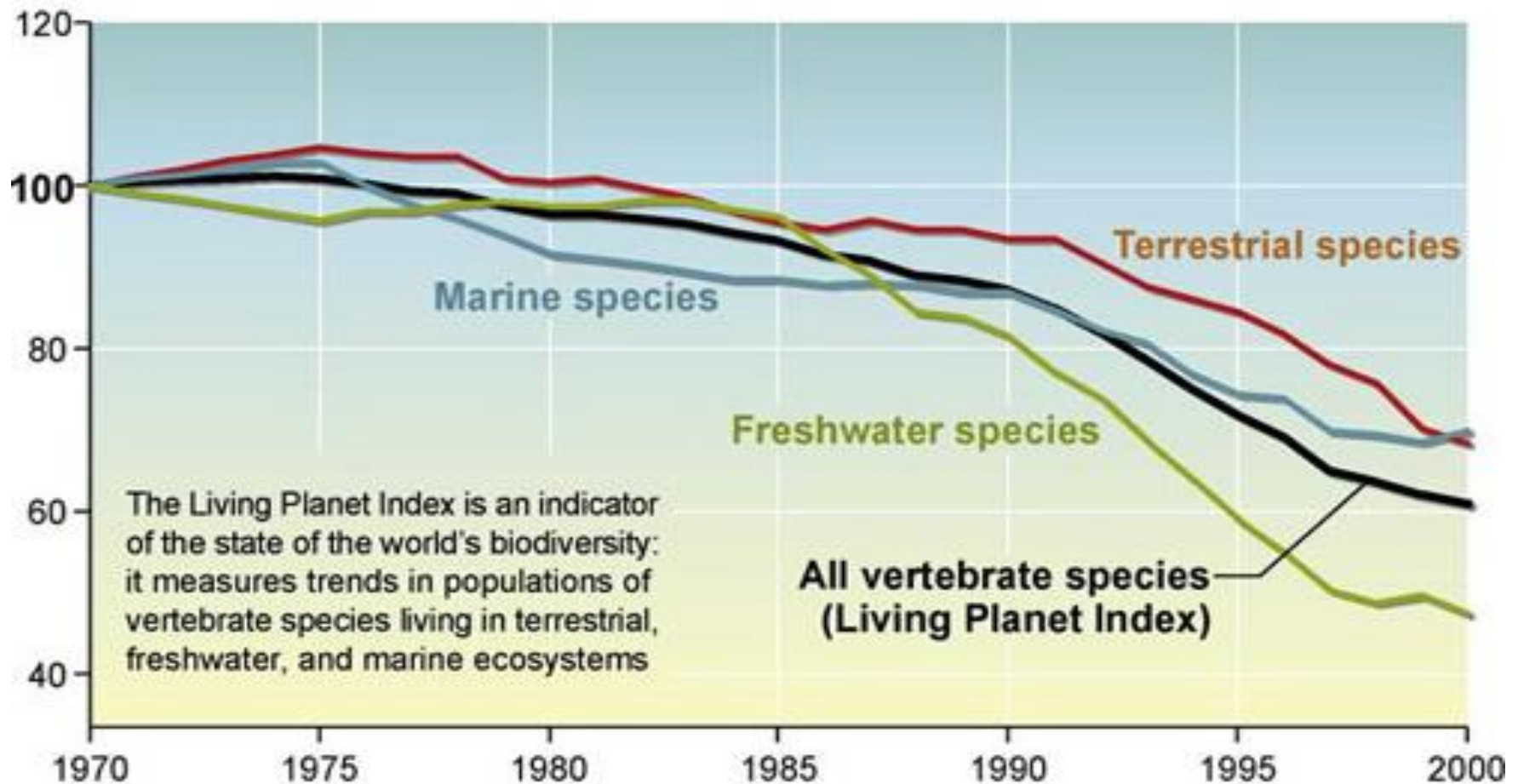


Biodiversity and Ecosystems

Biodiversity Loss



Population Index = 100 in 1970



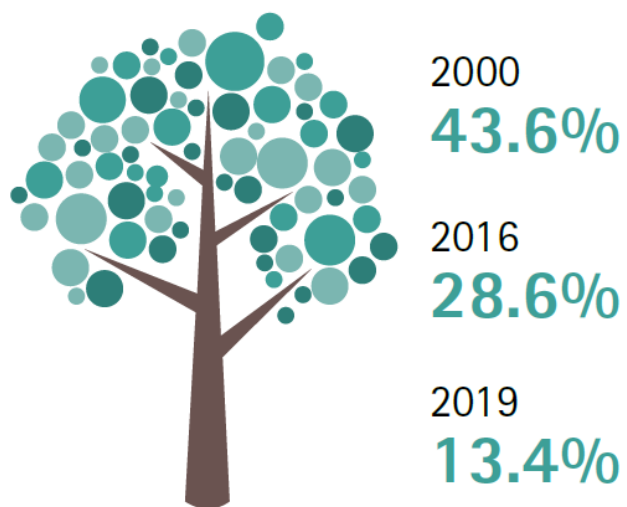
Source: WWF, UNEP-WCMC

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Forest Health Status Luxembourg



Trees with no damage

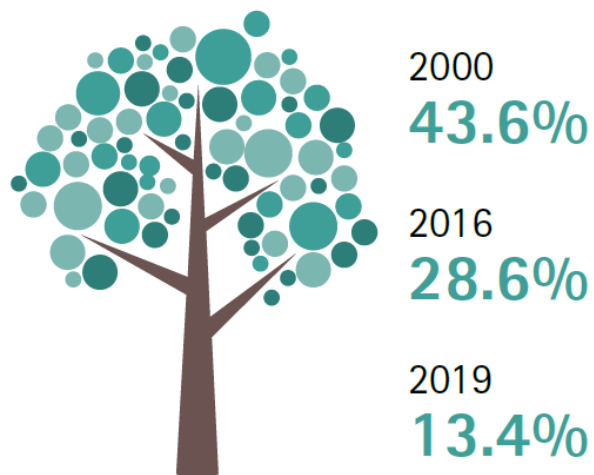


Source: Statec, Luxembourg in Figures 2020

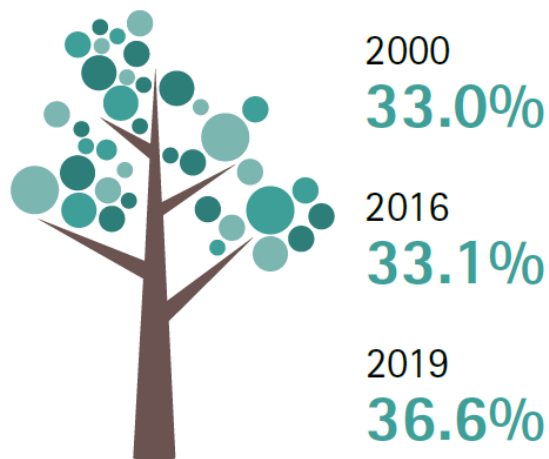
Forest Health Status Luxembourg



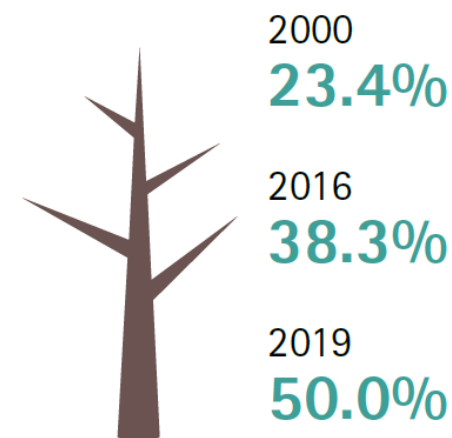
Trees with no damage



Trees slightly damaged



Trees considerably damaged



Source: Statec, Luxembourg in Figures 2020



The economic value of biodiversity and ecosystems :

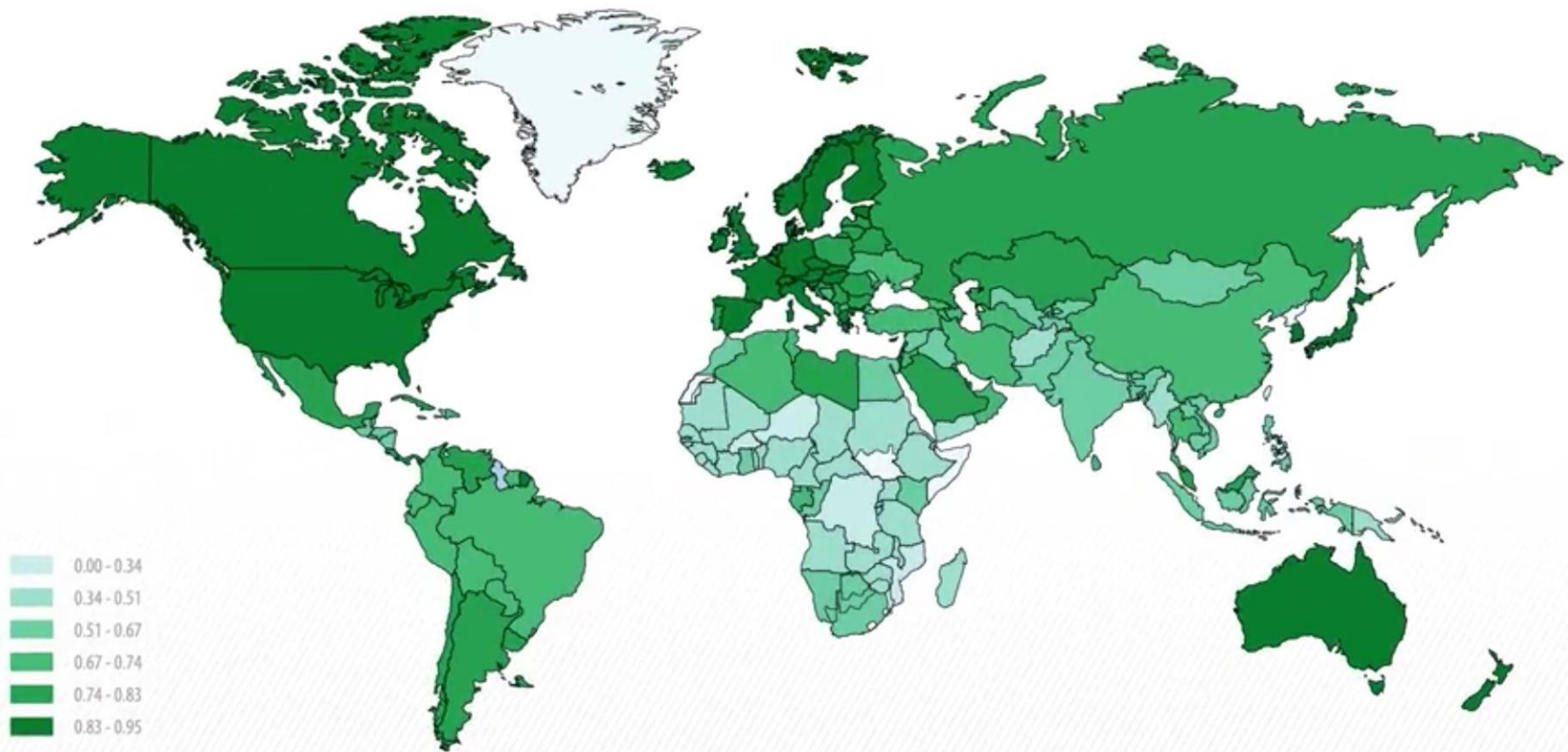
USD 100,000,000,000,000



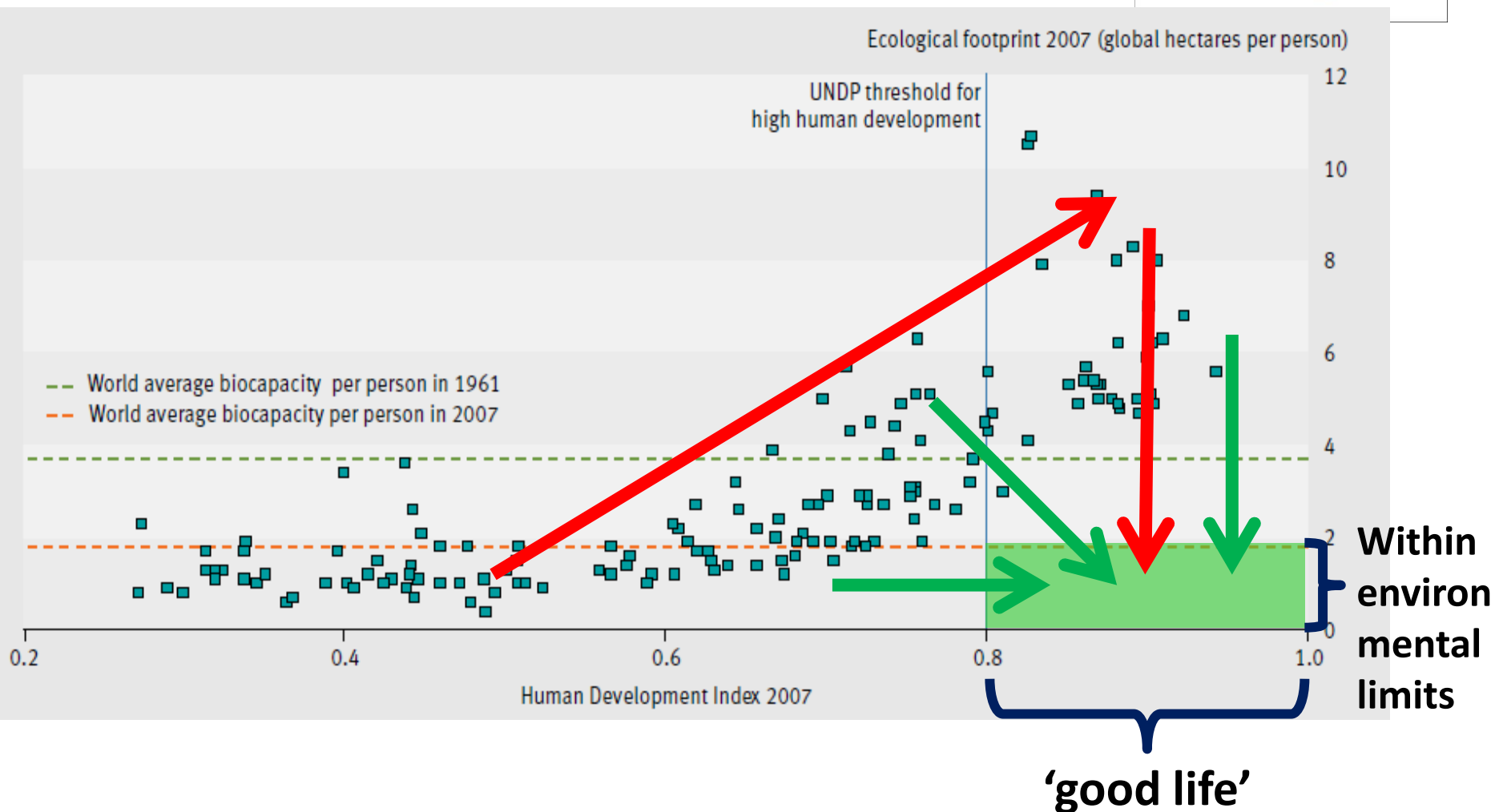
Human Development, 'good life'



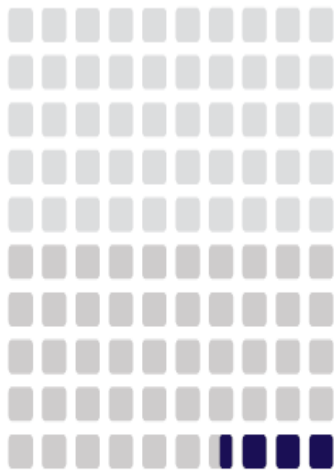
Human Development Index (2010)



Re-inventing the 'good life'

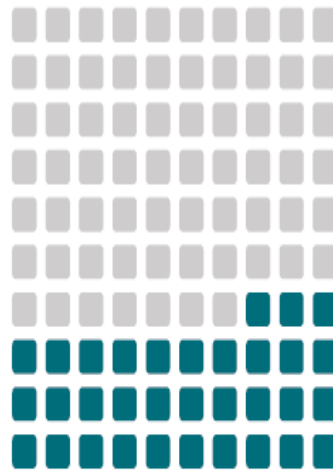


Typical Personal Carbon Emissions



100 kg CO₂

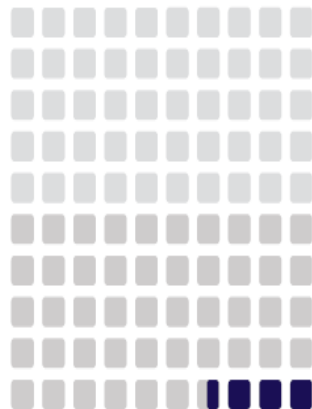
Refrigerator – one year



2,000 kg CO₂

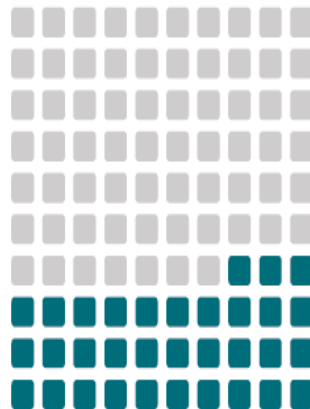
Car driving 34 km per day, one
year – one person

Your carbon budget



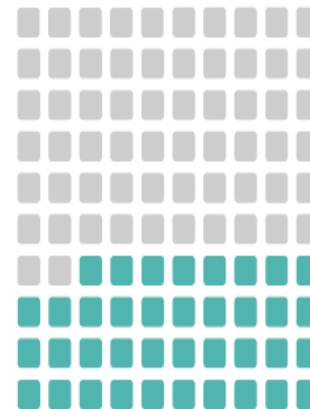
100 kg CO₂

Refrigerator – one year



2,000 kg CO₂

Car driving 34 km per day, one
year – one person

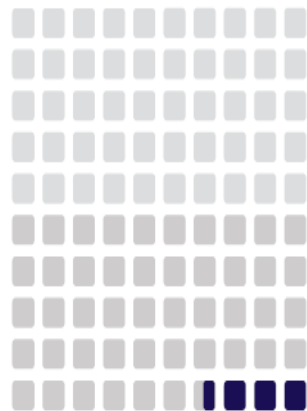


2,300 kg CO₂

Maximum allowable climate
budget – Per person, per year

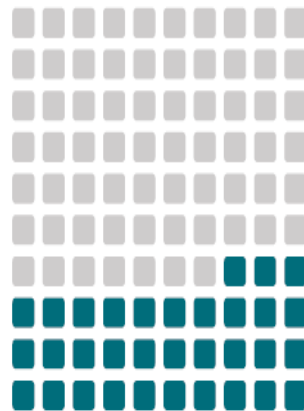
Source: atmosfair.org

How much are we prepared to contribute personally ?



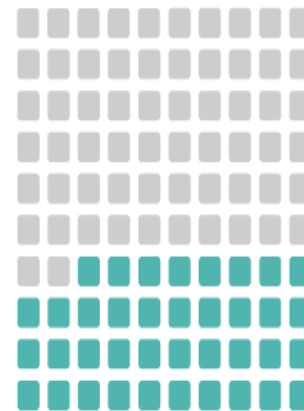
100 kg CO₂

Refrigerator – one year



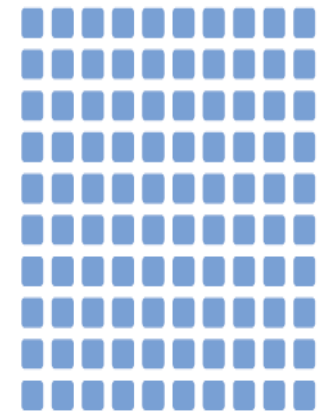
2,000 kg CO₂

Car driving 34 km per day, one
year – one person



2,300 kg CO₂

Maximum allowable climate
budget – Per person, per year



6,000 kg CO₂

Frankfurt – Singapore
1 passenger return flight
(business)

Source: atmosfair.org



No management without measurement

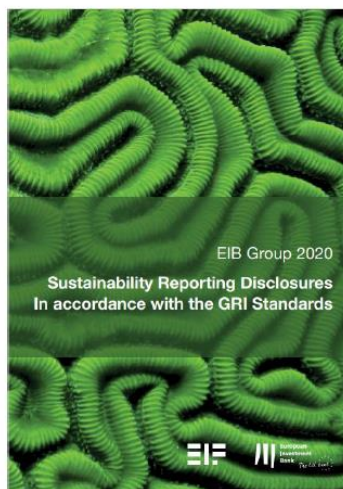


The EIB Group has been communicating on its sustainability efforts for a long time

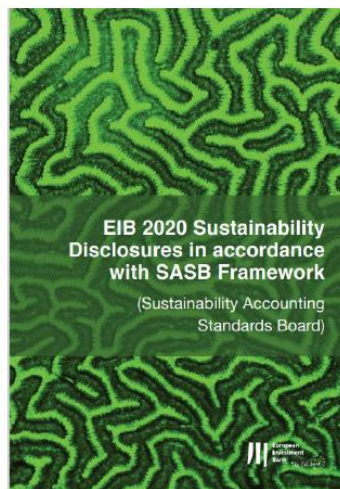
Sustainability report



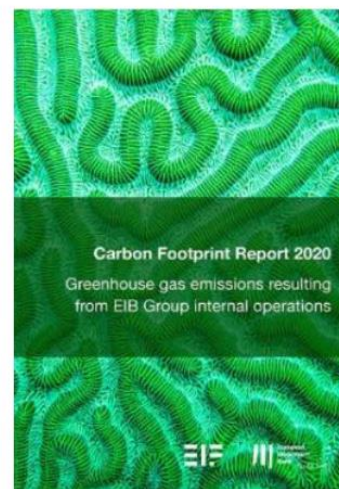
GRI Global reporting initiative



SASB Sustainability Accounting Standards Board



Carbon Footprint Report



TCFD Task Force on Climate-related Financial Disclosures





- Pricing Externalities

EIB – Shadow Cost of Carbon

	2020	2025	2030	2035	2040	2045	2050
Value (€/tCO ₂ e)	80	165	250	390	525	660	800

2 Key Takeaways



1. Sustainability challenge: **Here to stay**
2. Sustainable Finance: **Integrating Externalities**



Thank you !