





COMBATTING CLIMATE CHANGE WHERE DO WE GO NEXT?

Penelope Guarnay

EDUCATION

EMPLOYMENT





Erasmus















EST. 1884





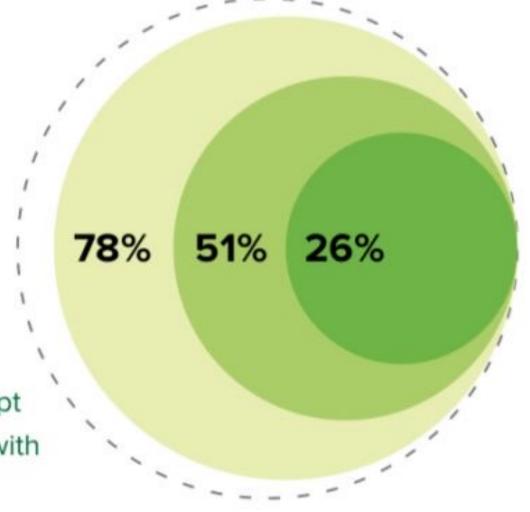


SUSTAINABILITY PROFESSIONS

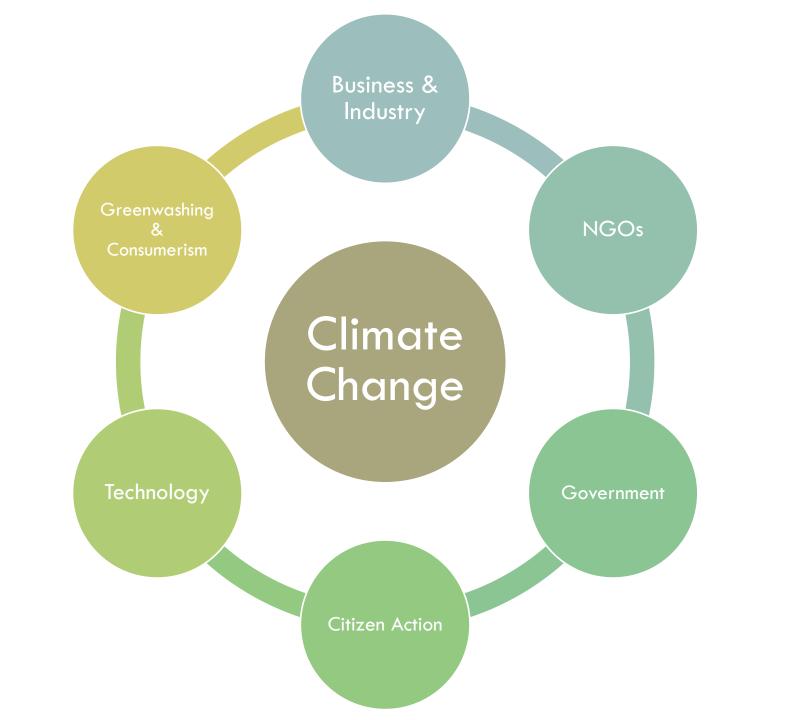




51% of students are willing to accept a lower salary to work for a company with better environmental practices



26% would not accept a job at a company with bad environmental practices, regardless of how high the salary was





ARCTIC SEA ICE

Ice-free summers in

the Arctic at least

once every 100

vears.

CLIMATE RISKS: 1.5°C VS 2°C GLOBAL WARMING

EXTREME WEATHER

100% increase 170% increase in flood risk. in flood risk.

SPECIES

6% of insects, 8% of plants and 4% of vertebrates will be affected.

18% of insects, 16% of plants and 8% of vertebrates will be affected.

WATER AVAILABILITY

350 million urban residents exposed to severe drought by 2100.

410 million urban residents exposed to severe drought by 2100.

PEOPLE

9% of the world's population (700 million people) will be exposed to extreme heat waves at least once every 20 years.

28% of the world's population (2 billion people) will be exposed to extreme heat waves at least once every 20 years.

46 million people

rise of 48cm by 2100.

Ice-free summers in

the Arctic at least

once every 10

years.

49 million people

impacted by sea-level VS impacted by sea-level rise of 56cm by 2100.

COSTS

Lower economic growth at 2°C than at 1.5°C for many countries, particularly low-income countries.

OCEANS

Lower risks to marine biodiversity, ecosystems and their ecological functions and services at 1.5°C compared to 2°C.

CORAL BLEACHING

SEA-LEVEL RISE

70% of world's lost by 2100.

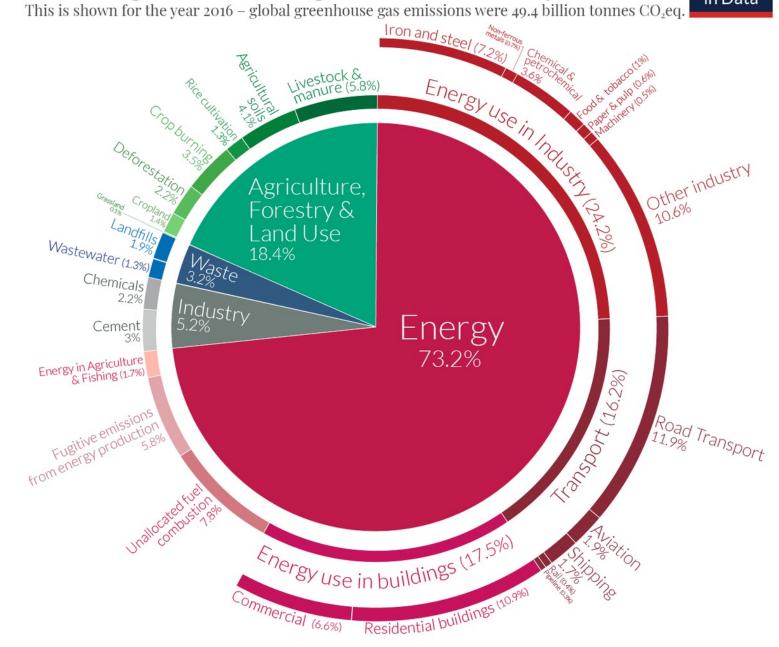
Virtually all coral reefs are VS coral reefs are | lost by 2100.

FOOD

Every half degree warming will consistently lead to lower yields and lower nutritional content in tropical regions.

Global greenhouse gas emissions by sector

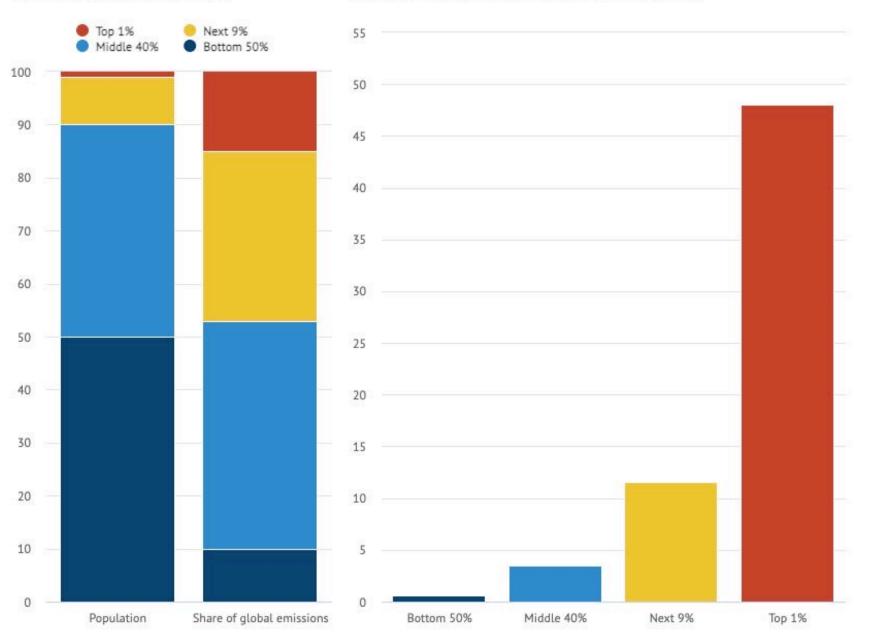




A Timeline of When Will These Major Global Threats **Global Risks** Become a Serious Problem Worldwide? Each year, the World Economic Forum releases its Global Risks Report, which highlights the top risks that pose a threat to the world in the next decade. Geopolitical % of respondents Timeframe: 0-2 years 1 Out of 37 risks, respondents were asked to identify which risks Extreme weather 31.1% they believe will become a critical threat to the world, and when. Livelihood crises 30.4% Climate action failure 27.5% Vaccine access is still highly Social cohesion erosion 27.5% uneven around the world, Infectious diseases 26.4% leaving developing countries more vulnerable to new waves Mental health deterioration 26.1% of COVID-19 infection. Cybersecurity failure 19.5% Debt crises 19.3% Digital inequality 18.2% Asset bubble burst 14.2% % Population Who Are Fully Vaccinated 4.3% Low-income countries 2-5 years 69.9% High-income countries Climate action failure 35.7% Extreme weather 34,6% Social cohesion erosion 23.0% Livelihood crises 20.1% Debt crises 19.0% Competition between the U.S. and China is rising. The U.S. is Human environmental damage 16.4% threatened by China's strong Geoeconomic confrontations 14.8% military presence and is tightening alliances with other Cybersecurity failure 14.6% world powers (the UK and Australia) as a result. Biodiversity loss 13.5% Asset bubble burst 12.7% 5-10 years Even the new commitments made at the 2021 COP26 aren't Climate action failure 42.1% enough to achieve the 1.5°C warming goal established in the Extreme weather 32.4% 2016 Paris Climate Agreementmeaning, we're at great risk of Biodiversity loss 27.0% climate damage. Natural resource crises 23.0% Human environmental damage 21.7% Optimistic 3.7% Positive 12.1% Social cohesion erosion 19.1% Involuntary migration 15.0% "How do you feel Concerned 61.2% about the outlook Adverse tech advances 14.9% for the world?" Geoeconomic confrontations 14.1% Geopolitical resource contestation 13.5% Worried 23.0% VISUAL CAPITALIST Source: WEF Global Risks Report 2022 (f) () /visualcapitalist () () @visualcap () visualcapitalist.com

Global population share (%)

Average carbon emissions per person (tCO2)











TELL YOUR POLITICIANS



CUT FOOD WASTE









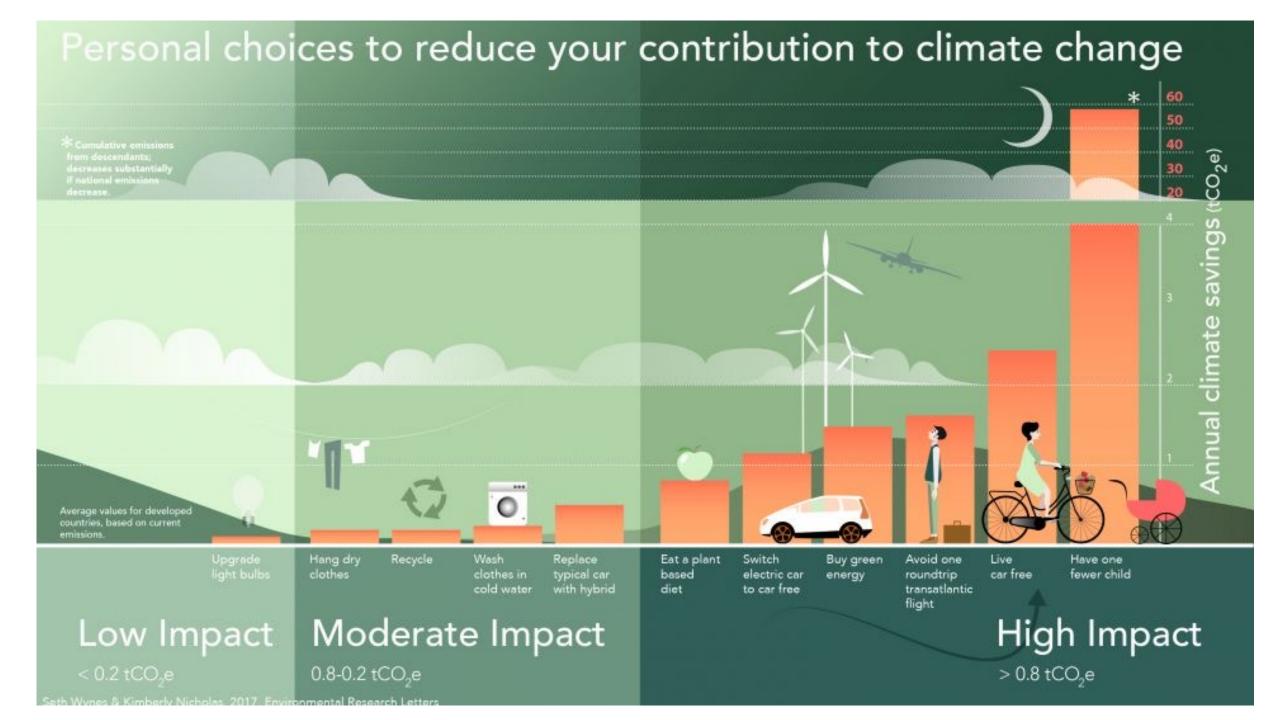












What people think Climate Action Is

Attending COP

Carbon Footprint

Banning Fossil Fuels

Save Trees

What Climate Action actually is

More successful local business communities

Healthier daily lives

Exploring new foods

Energy security

Cheaper energy bills

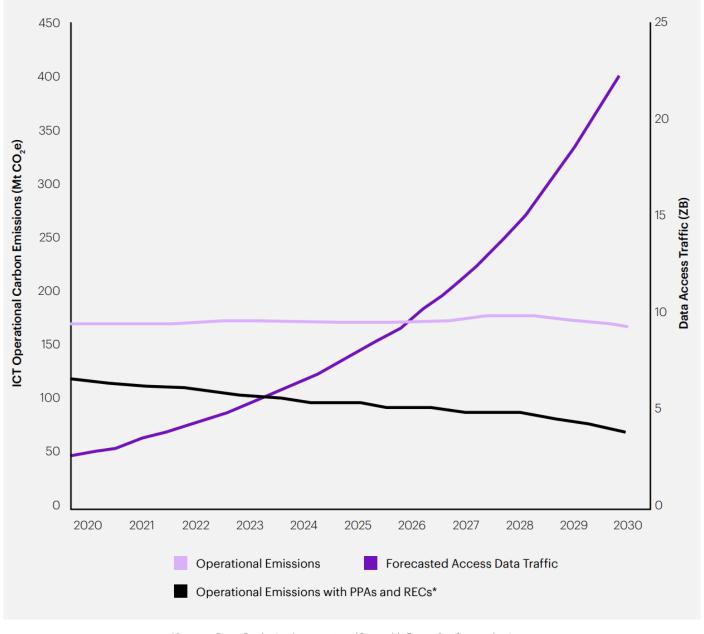
Having conversations

Making money from waste

Less time in traffic

Healthier Children

Figure 5: Forecasted ICT Operational Carbon Emissions and Access Data Traffic.

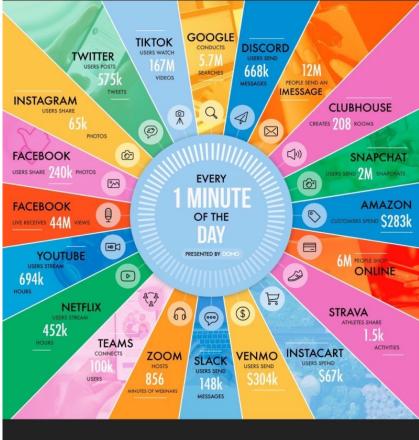




Data Never Sleeps 9.0

How much data is generated every minute?

The 2020 pandemic upended everything, from how we engage with each other to how we engage with brands and the digital world. At the same time, it transformed how we eat, how we work and how we entertain ourselves. Data never sleeps and it shows no signs of slowing down. In our 9th edition of the "Data Never Sleeps" infographic, we bring you a glimpse of how much data is created every digital minute in our increasingly data-driven world.



As of July 2021, the internet reaches 65% of the world's population and now represents 5.17 billion people—a 10% increase from January 2021. Of this total, 92,6 percent accessed the internet via mobile devices. According to Statista, the total amount of data consumed globally in 2021 was 79 zettabytes, an annual number projected to grow to over 180 zettabytes by 2025.

Global Internet Population Growth

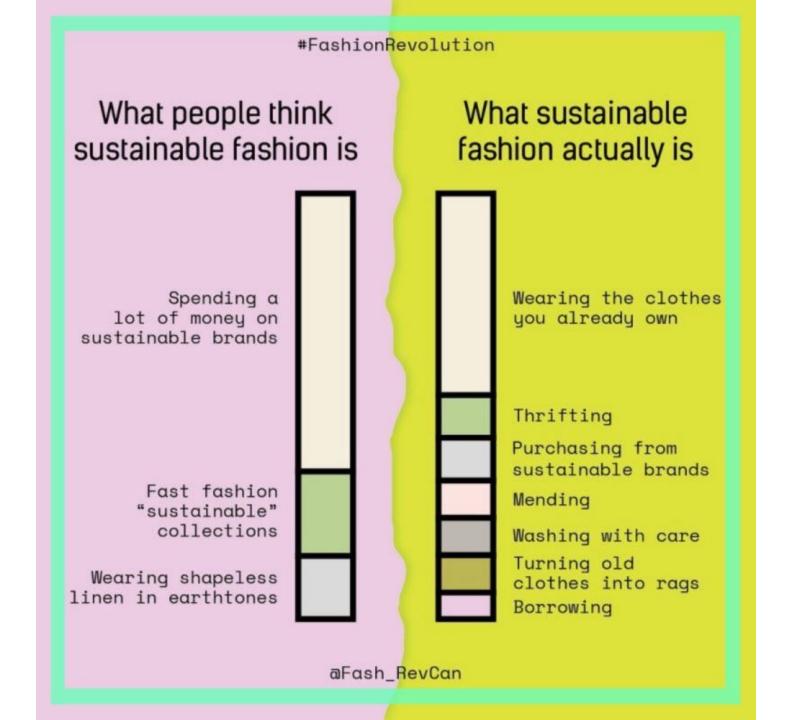


As the world changes, businesses need to change too—and that requires data. Domo gives you the power to make data-driven decisions at any moment, on any device, so that you can make smart choices in a rapidly changing world. Every click, swipe, share, or like tells you something about your customers and what they want, and Domo is here to help you and your business make sense of all of it.

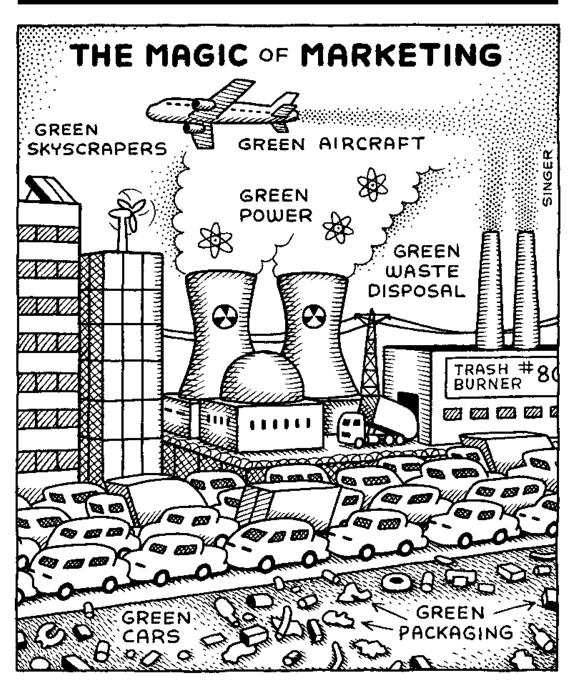
Learn more at domo.com

edurces: Local (q. Business of Apps. Dustin Stout, Hootsu Spanded Ramblings, Internet World Stats, Statista, Chibc Brandmarch, Kill The Cable Bill, Youtube, Kinsta, The Vero





We don't need
"greener" things
we need fewer
things



What people think What sustainable sustainable building is building actually is Renovation of building stock Planted facades Densification: inner before outer Design according to repurposing and recycling Solar roofs Flexible design, shared spaces Preservation of biodiversity, circular land use management Efficient use of healthy and climate positive materials Timber Social aspects along the production chain to the user Tiny houses Fossil free and renewable energy @STEFANIE BLANK

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Carbon impact of video streaming | The Carbon Trust

Data Centres and Data Transmission Networks – Analysis - IEA

Harnessing data to empower a sustainable future (bt.com)

The PwC Net Zero Future 50

ICT Sector Helping to Tackle Climate Change | UNFCCC

Consumerism (Food / Clothing)

Protect What You Love | Count Us In (count-us-in.org)

<u>'Luxury carbon consumption' of top 1% threatens 1.5C global heating limit | Greenhouse</u> gas emissions | The Guardian

Food production is responsible for one-quarter of the world's greenhouse gas emissions - Our World in Data

Norwegian Consumers Ditch Red Meat After Carbon Footprint Is Printed On Oda Grocery Receipts (greenqueen.com.hk)

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Sustainability & Consumer Behaviour 2021 | Deloitte UK

<u>Climate change: Regenerative farming 'could slash emissions equivalent to taking 900,000 cars off the road' | Climate News | Sky News</u>

Transport

Why Cars are Like Buildings and Why Embodied Carbon Matters (treehugger.com)

<u>Can we all drive Teslas and still get to net zero carbon emissions by 2050?</u> (thedriven.io)

Greenwashing

How Leaders Can Move Beyond Greenwashing Toward Real Change (hbr.org)

Circular Economy

<u>Circular economy strategies can cut global emissions by 39% - Circle Economy (circle-economy.com)</u>

Systems Thinking

Systems Thinking & Sustainability — Futurice

Putting Sustainability at the heart of business

Responsible business | Unilever

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France: CO2 Country Profile - Our World in Data

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QUESTIONS

