

Globální zpráva o životním prostředí UNEP (GEO 6) - přesahy a souvislosti

Seminář E2000 – „Stav současného životního prostředí, zprávy OSN a EEA“ (3. března 2021)

Obsah prezentace

1. Globální přehledy: komplexní a provázaný svět

- Agenda udržitelného rozvoje 2030 (2015)
 - United in Science 2020
- World Economic Forum – Global Risk Report 2021

2. Antropocén – člověk jako hybatel světa

- Klima – biodiverzita – sociální nerovnost - protesty

3. UNEP - 6. globální zpráva o životním prostředí (2019)

- Hnací síly proměn: populační dynamika – urbanizace
- Stav naší planety: ovzduší, biodiverzita, oceány, půda
 - Zdravotní dopady znečištění

4. Závěr

- Negativní trend vs. pozitivní příklady transformativních změn



Millennium Development Goals






**SUSTAINABLE
DEVELOPMENT
GOALS**

[See all](#)

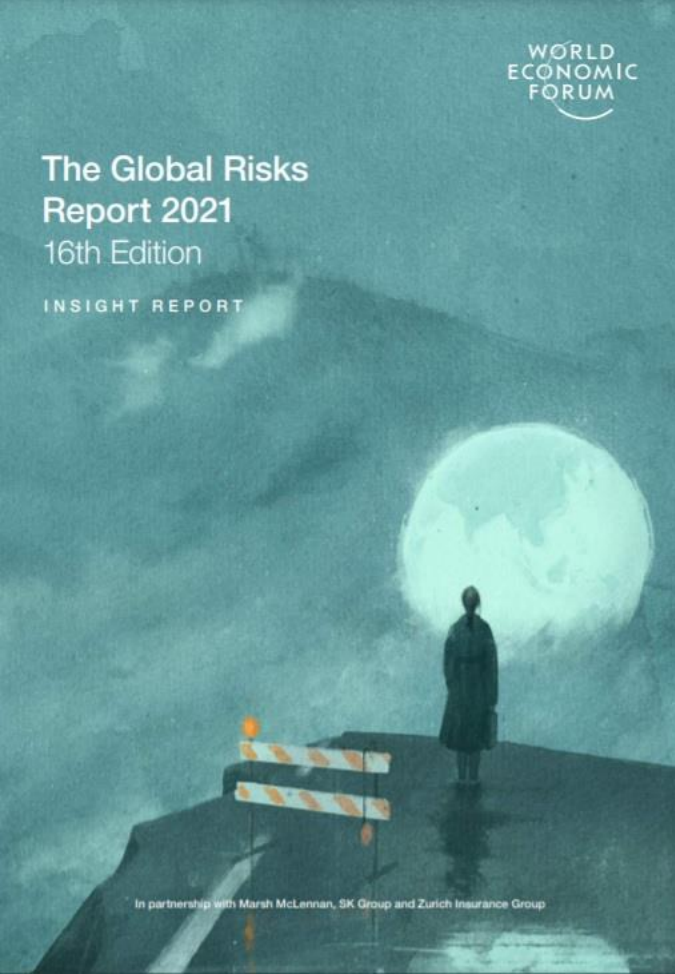
continued to increase in 2019 and 2020.

- Overall emissions reductions in 2020 will lead to a small reduction in the annual increase of the atmospheric concentrations of long-lived greenhouse gases.
- Sustained reductions in emissions are required to stabilize global warming.

Global Fossil CO₂ Emissions Global Carbon Project

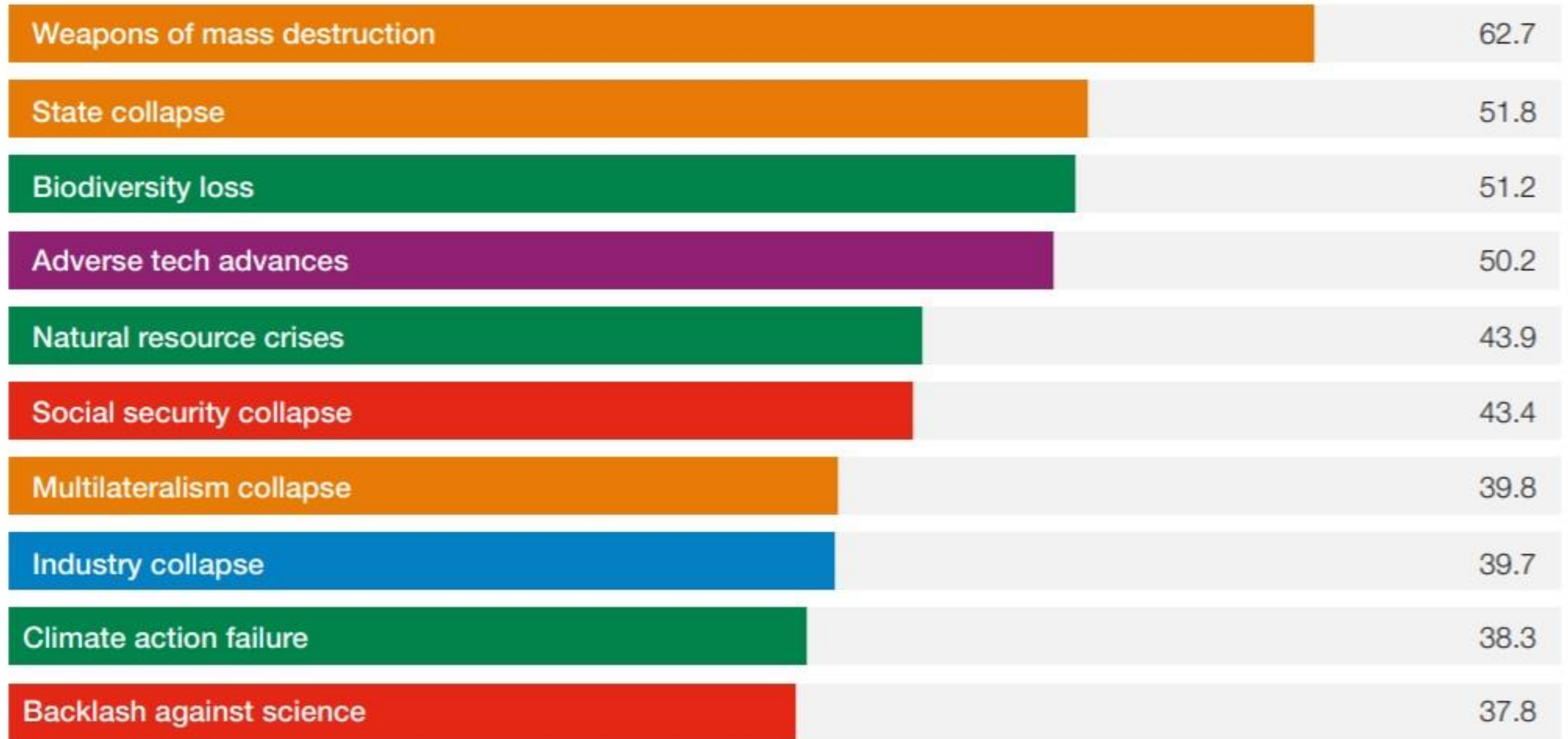
- Global fossil CO₂ emissions reached a new record high of 36.7 Gigatonnes (Gt) in 2019, 62% higher than in 1990.
- CO₂ emissions will decline in 2020 due to confinement policies imposed in many countries. At their lowest point, in April, daily CO₂ emissions were approximately at the level they were in 2006, and 2020 emissions overall are estimated to decline by 4% to 7% compared to 2019 levels.



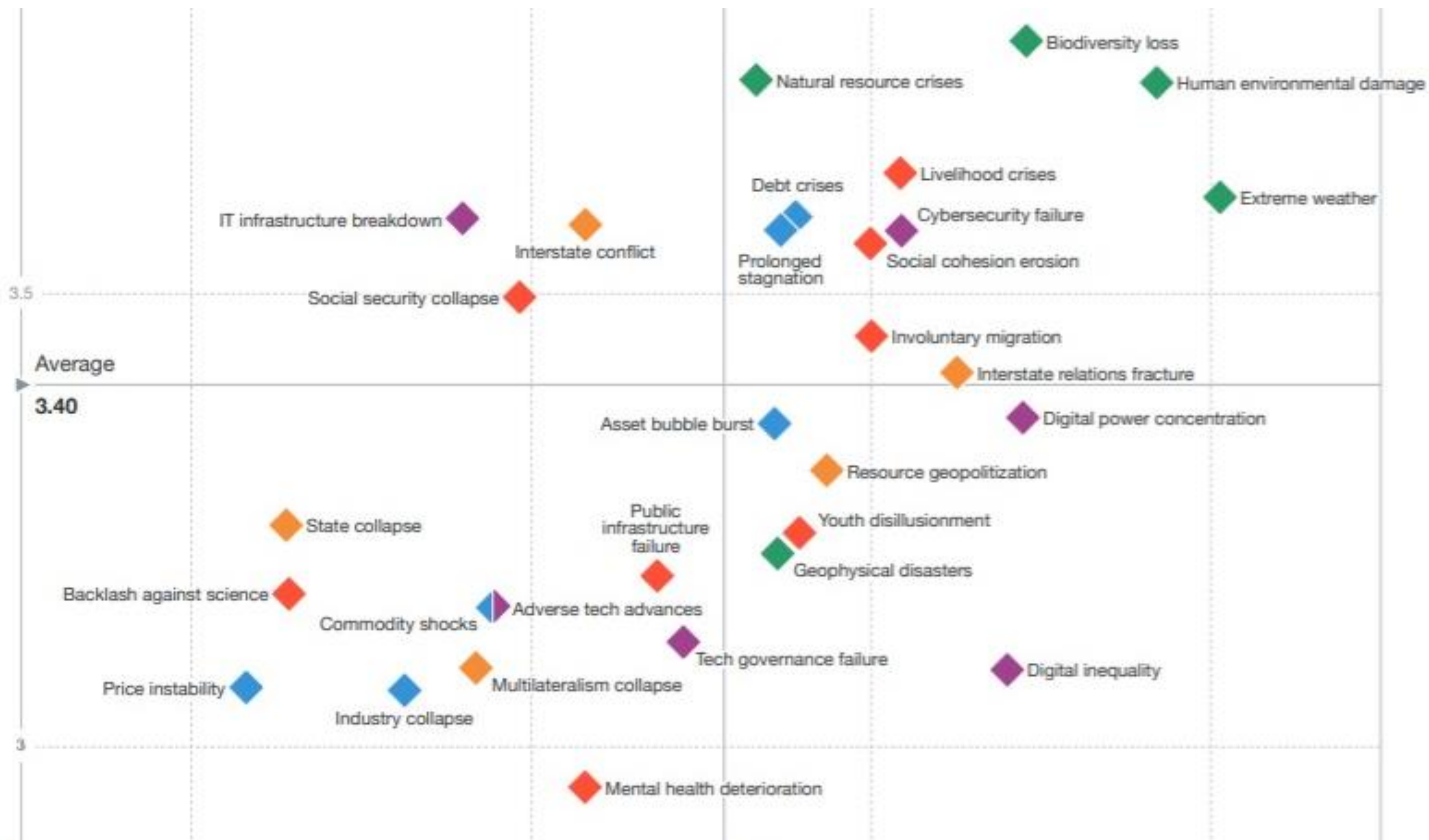


Existential threats

Long-term risks
(5 – 10 years)



Source: World Economic Forum Global Risks Perception Survey 2020





The long read

The Anthropocene epoch: have we entered a new phase of planetary history?

▲ Composite:
ESA/AFP/Getty/Alamy/VC
G/USGS







Select below

Extreme Weather

Direct Risks

Overall Vulnerability

Sea Level Rise

Direct Risks

Overall Vulnerability

Agricultural Productivity Loss

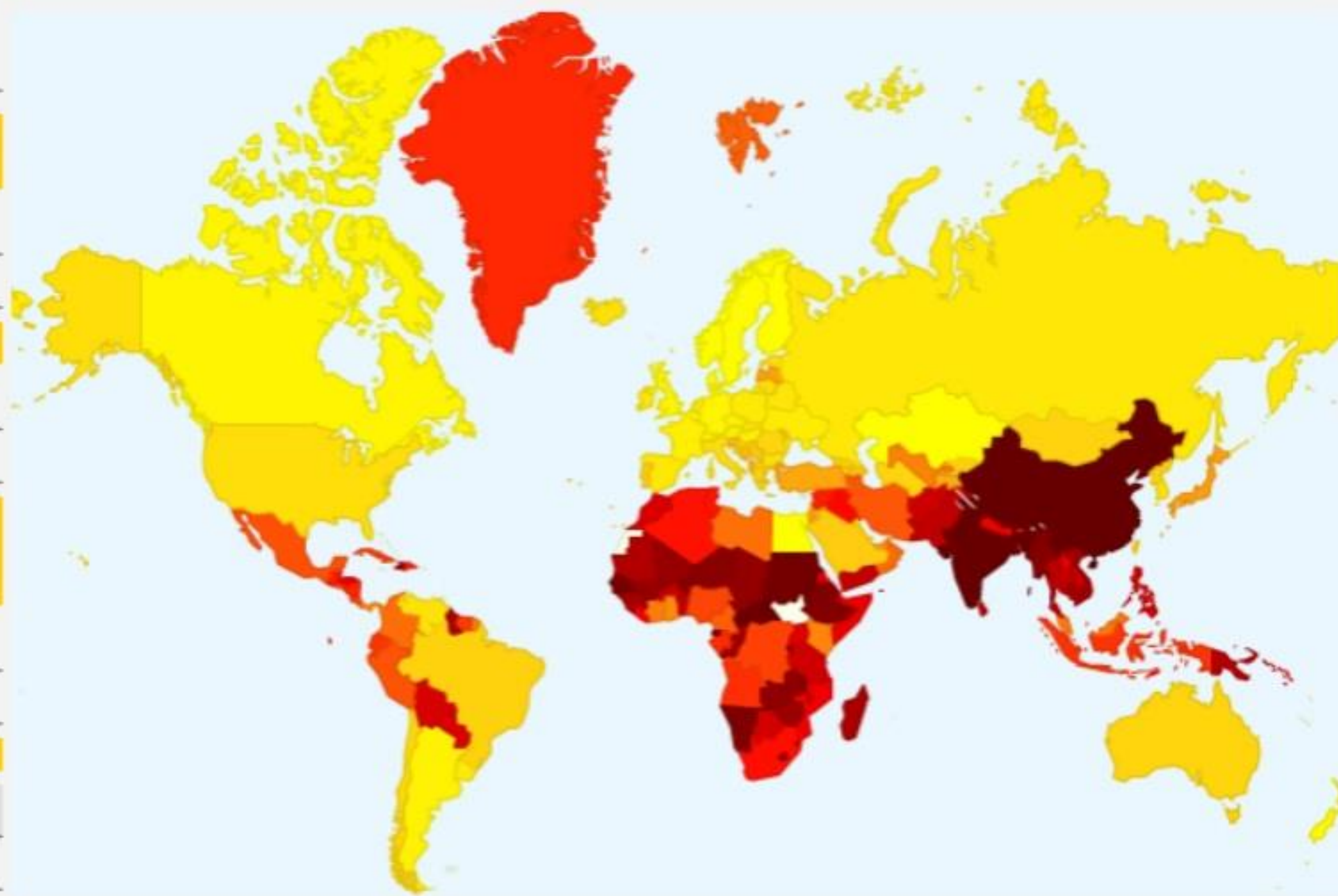
Direct Risks

Overall Vulnerability

Overall

Direct Risks

Overall Vulnerability



Rank 1 169

Overall Direct Risks:
Physical Climate Impacts

- The World
- South America
- Central America
- Caribbean
- All of Africa
- Central Africa
- South Asia
- Asia - Pacific
- Asia - Central
- Middle East
- Eastern Europe & North Africa

Filter By
Income Status
-

Ranking	
1-55 56-111 112+	
1	China
2	India
3	Central African Republic
4	Equatorial Guinea
5	Burundi
6	Sudan
7	Bangladesh
8	Rwanda
9	Senegal
10	Namibia
11	Ethiopia
12	Myanmar
13	Malawi
14	Niger
15	Swaziland
16	Lesotho
17	Zambia
18	Chad
19	Mali
20	Guinea-Bissau
21	Zimbabwe
22	Congo
23	Vietnam

Sources: *Center from Global Development*



STOP CLIMATE CHANGE OR FIRE

SAVE LIVES

USE PLANTS

KEEP OUR PLANET CLEAN IT'S NOT A POLICY

WAKE UP

DENIAL IS NOT A POLICY

WHY AREN'T YOU PANICKING!

THE END IS NIGH

IF YOU DON'T ACT LIKE ADULTS THEN WE WILL

i'm missing my maths test for this!!

NO net Let's change for climate sake!

The Environment is CHANGING But We're Not

SAVE OUR FUTURE

STOP ADANI COAL KILLS

IT'S GETTING HOT AC MO

Global Environment Outlook 6

Authors: UN Environment



Published in time for the Fourth United Nations Environmental Assembly, UN Environment's sixth Global Environment Outlook (2019) calls on decision makers to take immediate action to address pressing environmental issues to achieve the Sustainable Development Goals as well as other Internationally Agreed Environment Goals, such as the Paris Agreement.

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 - Key Messages
 - Technical Report

GEO-6

SETTING THE SCENE

- Drivers of change / Current state of Knowledge / Cross-cutting issues

A - STATE OF THE GLOBAL ENVIRONMENT

- Air / Biodiversity / Oceans / Land / Freshwater

B - POLICIES AND GOVERNANCE: EFFECTIVENESS

- Policy theory / Policy in air... + systemic policy and conclusions

C – PATHWAYS FOR HEALTHY PLANET AND PEOPLE

- Long-term vision 2050 / Sustainable Future / Participation / way forward

D – REMAINING DATA DATA AND KNOWLEDGE GAPS

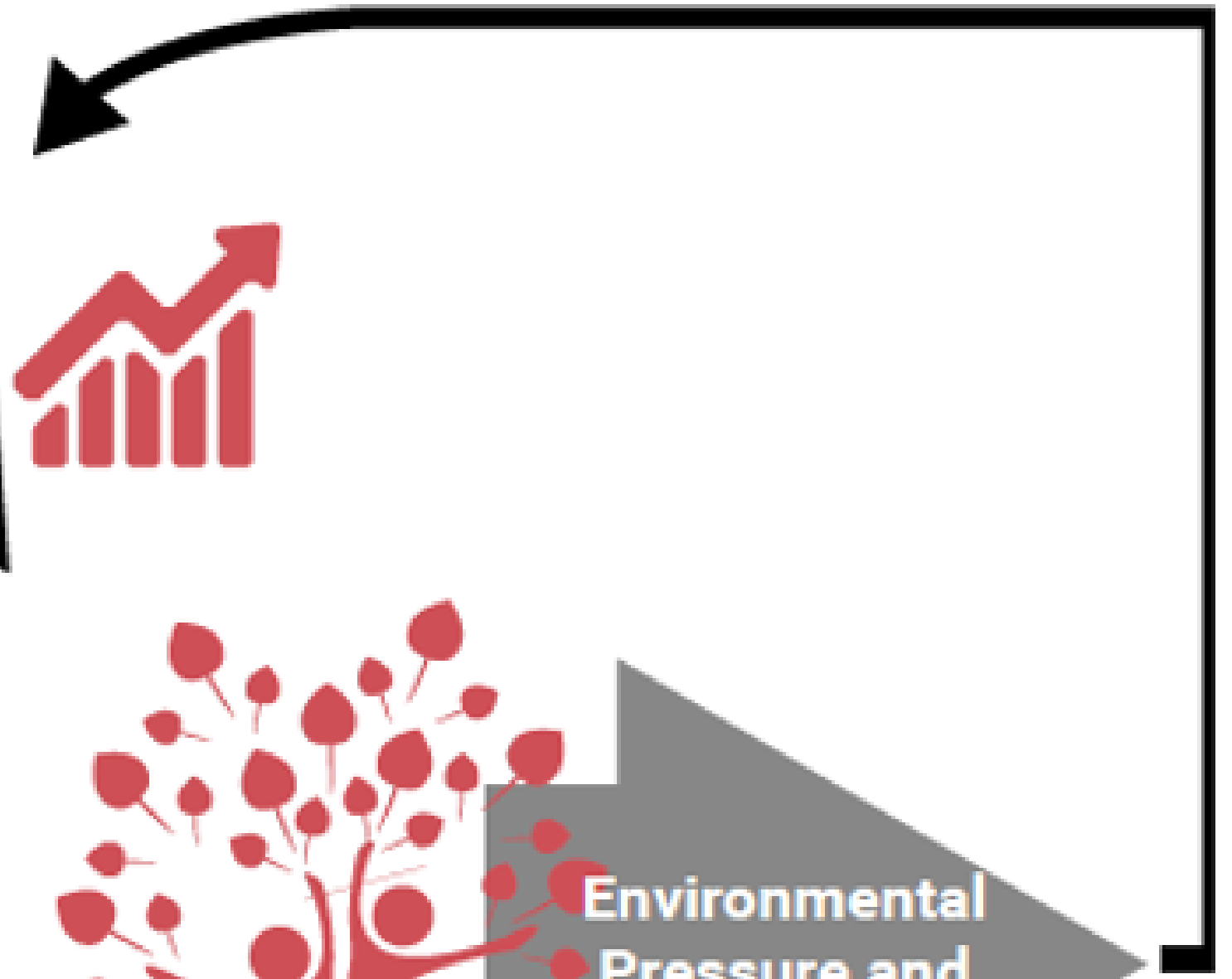


Figure 2.3: Projected world population

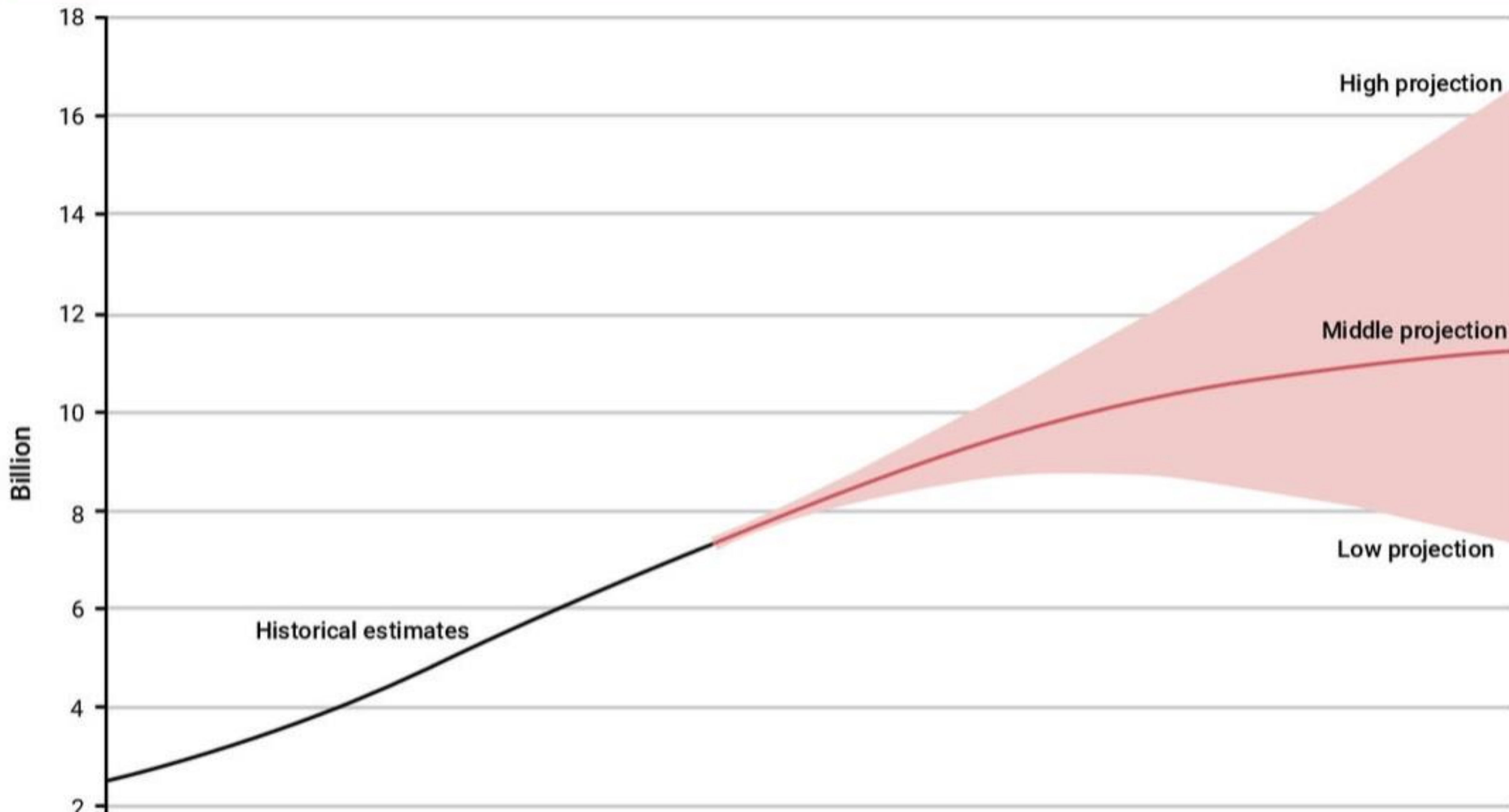
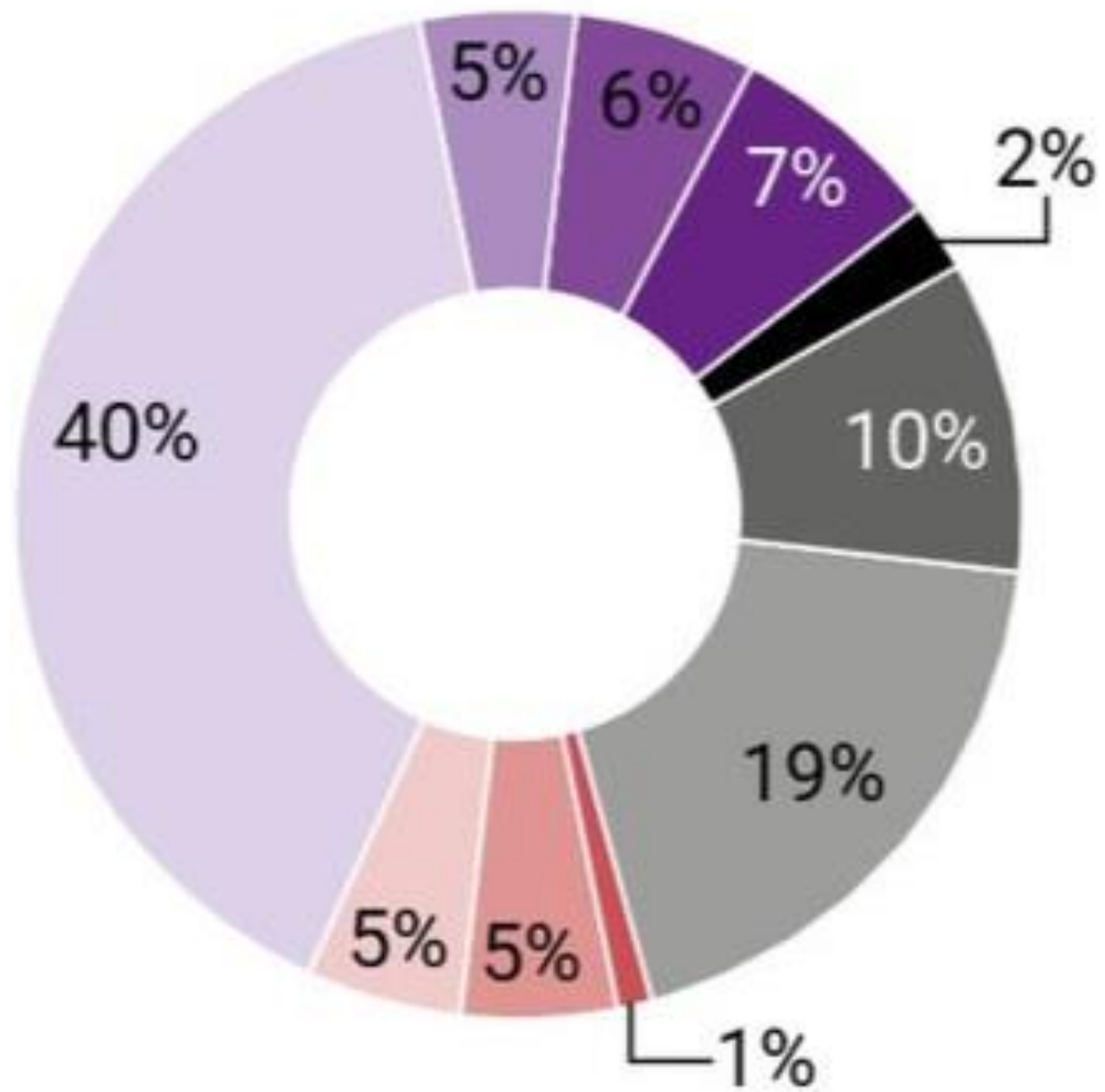


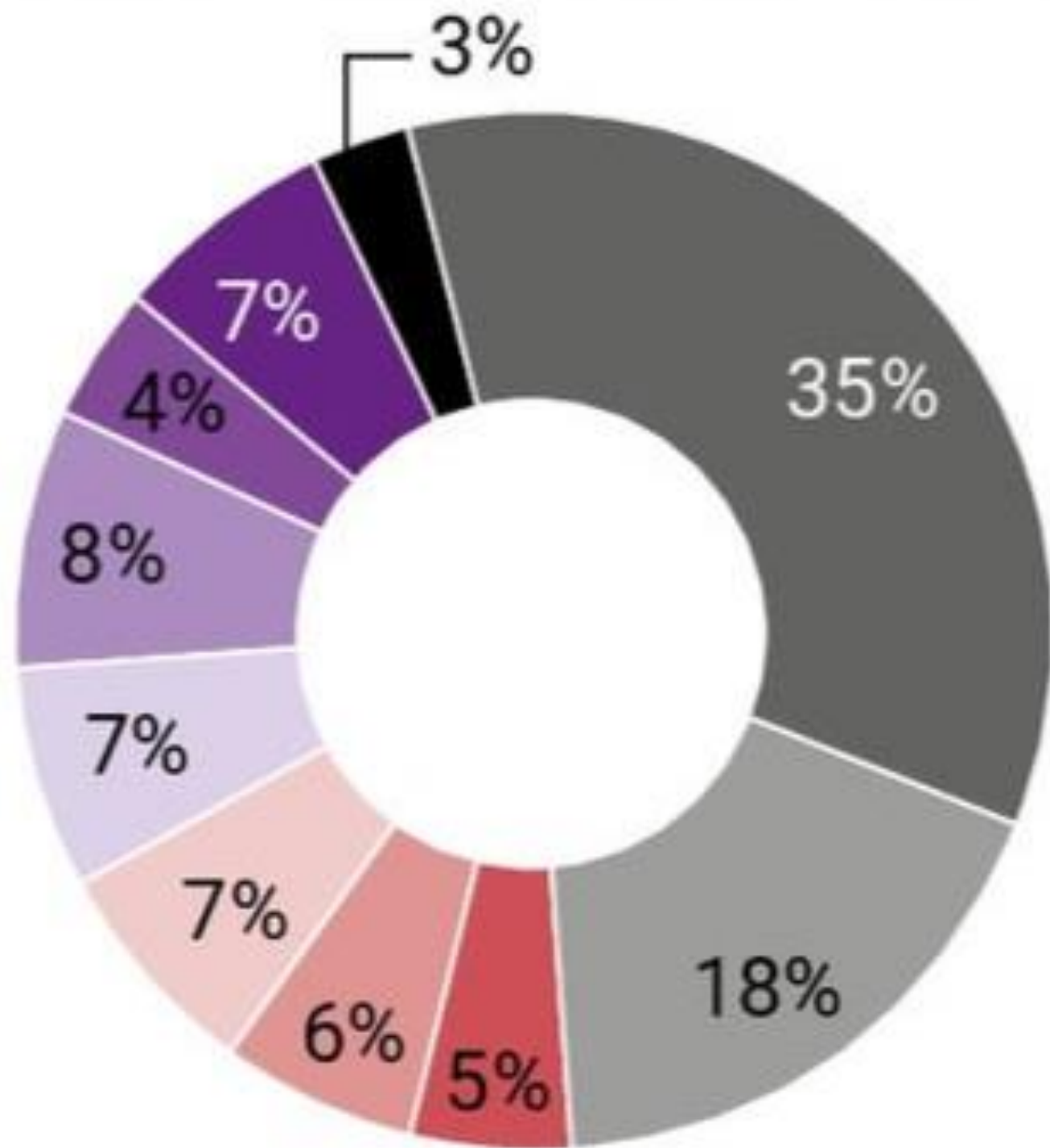
Figure 2.4: Consumption and associated environmental pressures are unequally distributed between nations



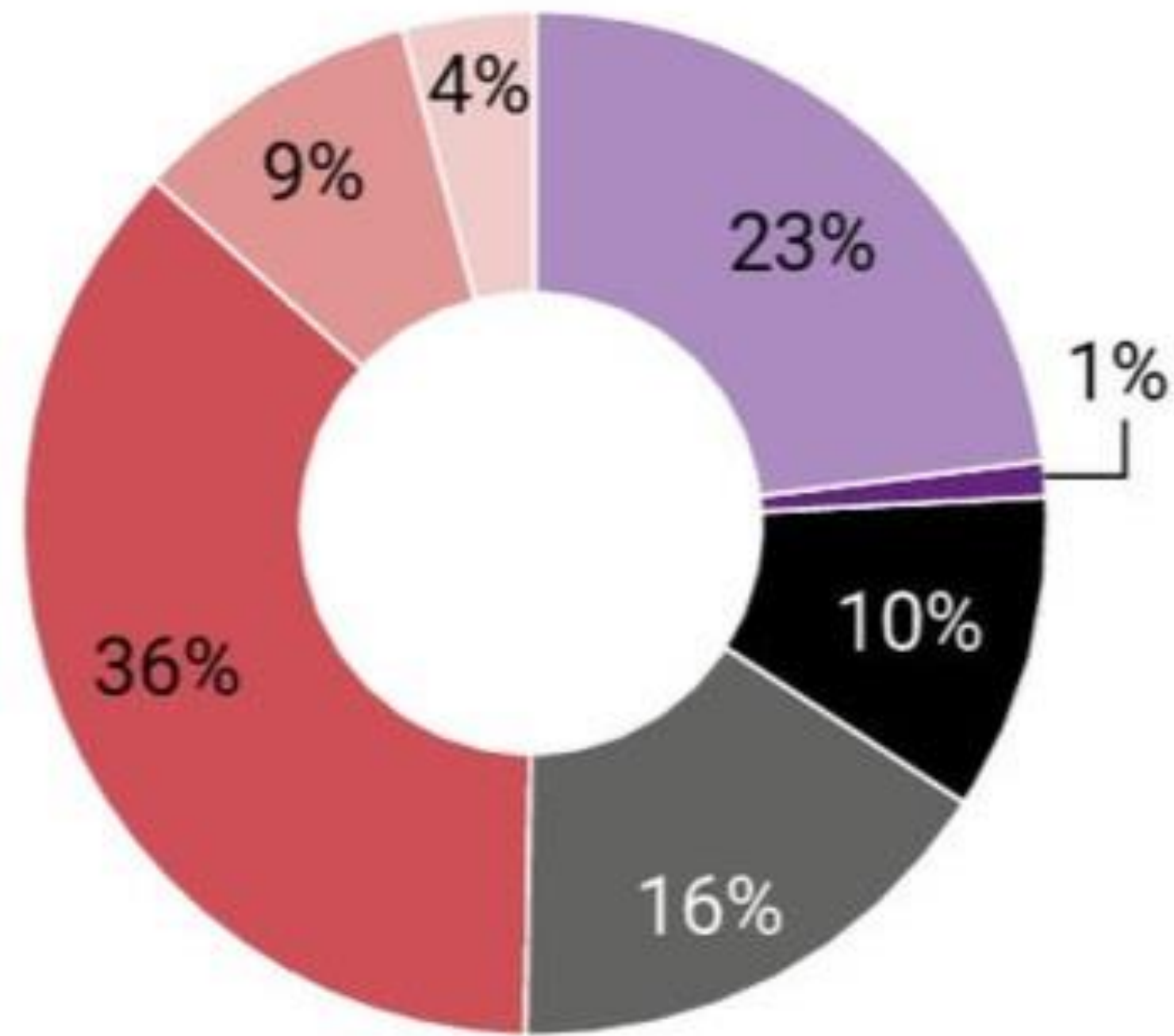
Top 10% emitters: 45% of world emissions



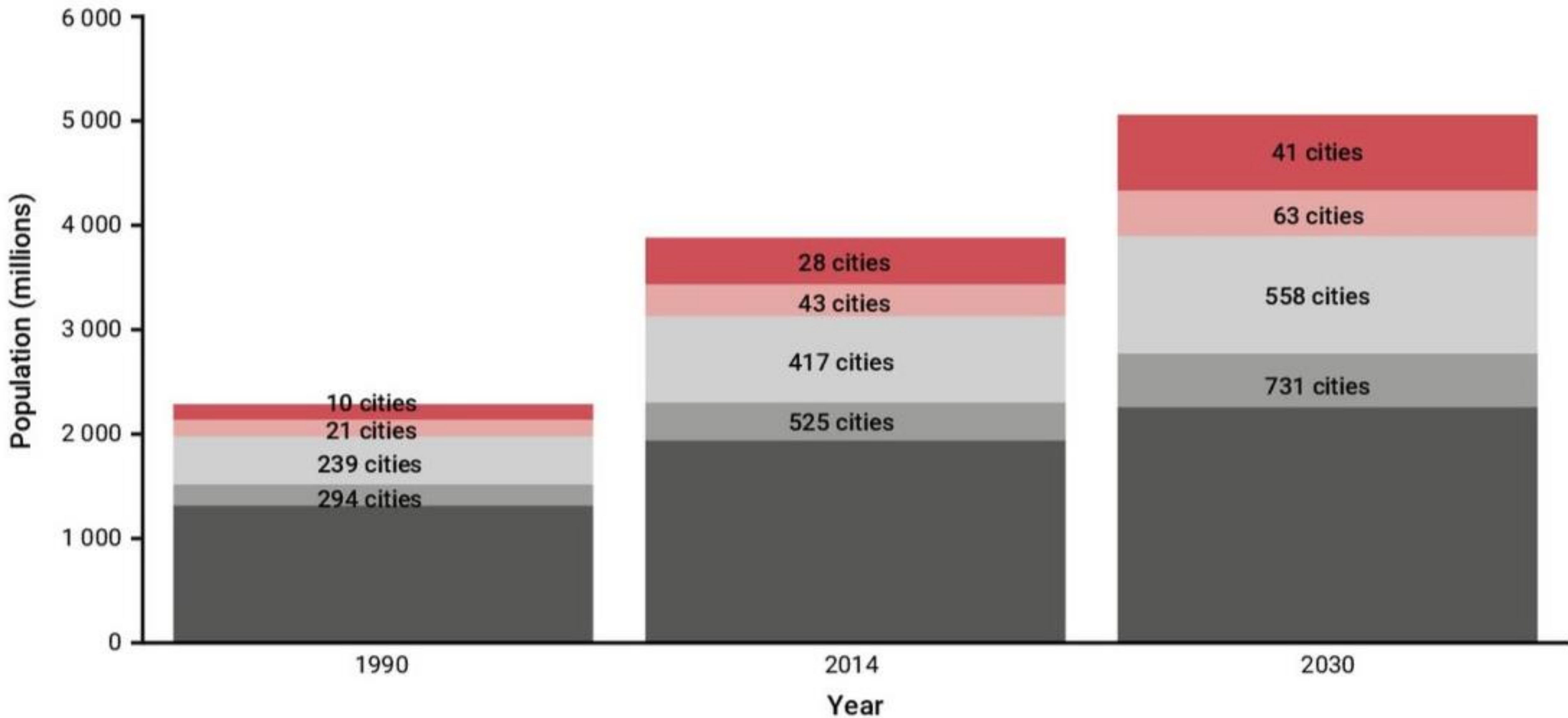
Middle 40% emitters: 42% of world emissions



Bottom 50% emitters: 13% of world emissions



Note: In order to better represent the contribution of different groups of emitters to total CO₂ emissions, the charts split the world in three groups: top 10 per cent, middle 40 per cent and bottom 50 per cent CO₂ emitters in each country. For each of these groups, the chart presents the percentage of the group's emissions

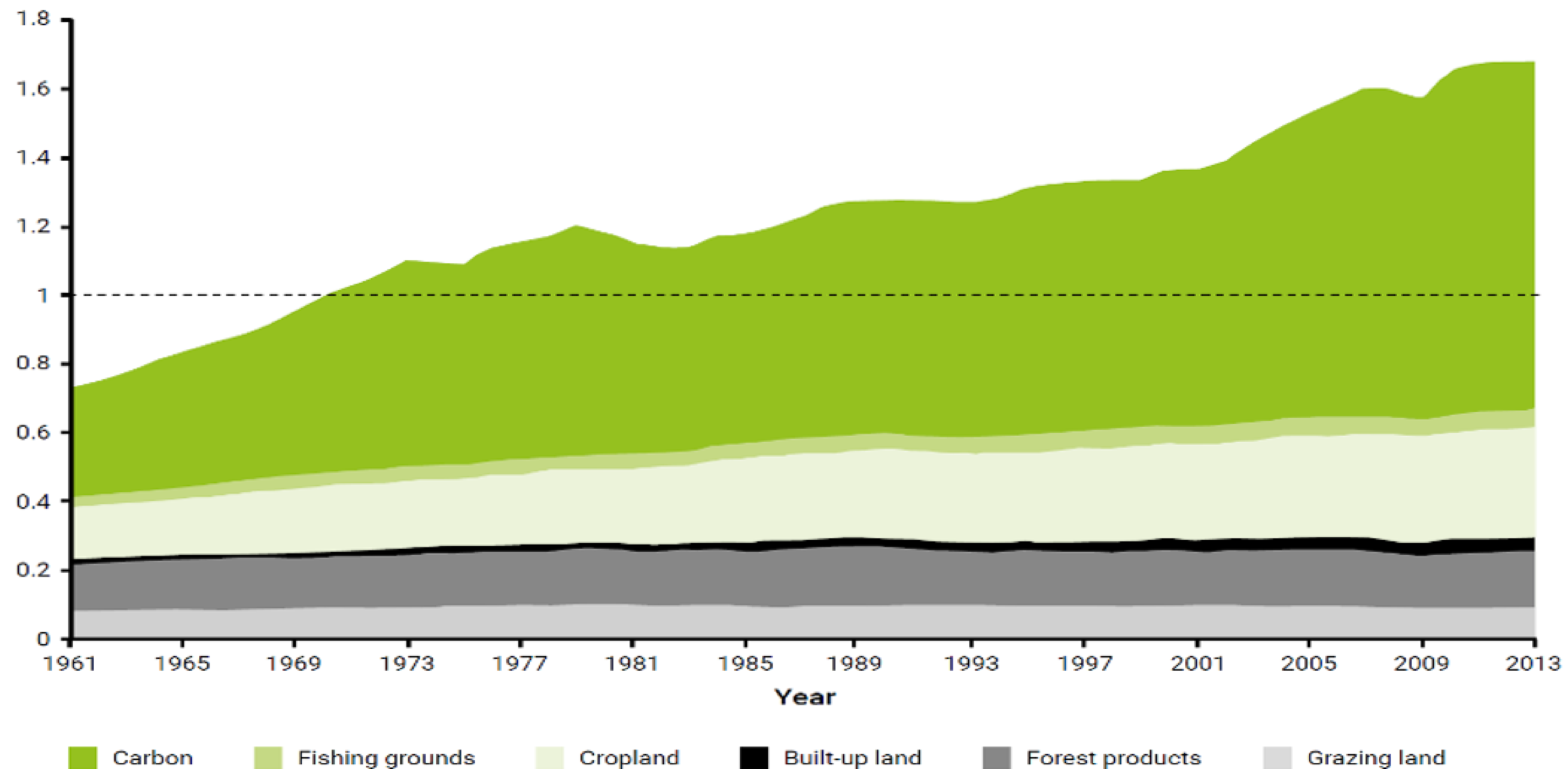


- Megacities of 10 million or more
- Large cities of 5 to 10 million
- Medium-sized cities of 1 to 5 million
- Cities of 500 000 to 1 million
- Urban areas smaller than 500 000

State of an Unhealthy Planet

Ecosystem	State
Air	Rising urban air pollution; indoor rural pollution; increasing temperatures, climate change; ODS; POPs;
Biodiversity	6 th mass extinction event; 10/14 terrestrial ecosystems in trouble; global fish stocks overexploitation ↑from 10%(1975) to 33% (2015); 22% of the population look after 80% of the biodiversity; (1 million species)
Oceans	Coral bleaching, declining fisheries, ocean acidification, plastics, marine pollution
Land	Degradation, deforestation, land use change, chemicals and wastes

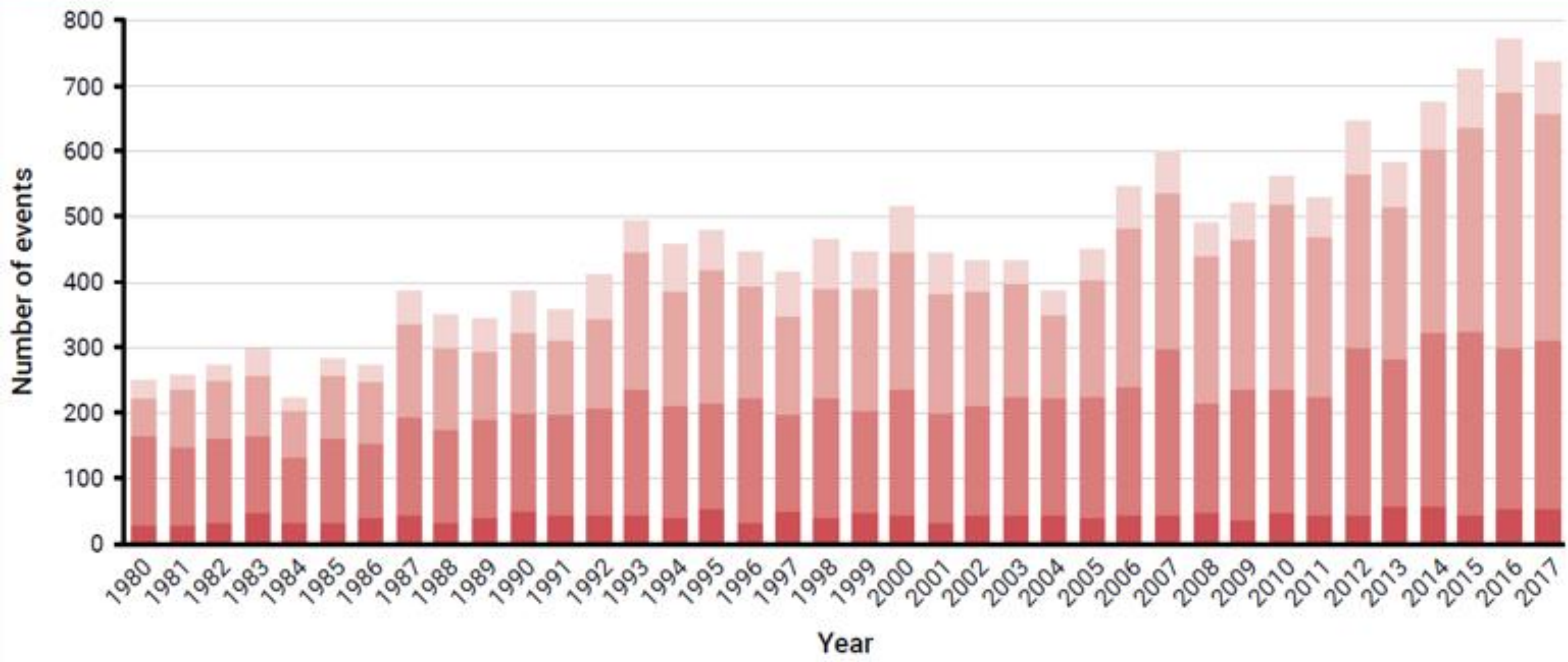
Figure 13.10: The world Ecological Footprint by component (land type) between 1961 and 2013, measured by number of Earths



IMPACTS ON HEALTH

All	25% of health impacts; Disasters (2005-15) killed 0.7 M people, affected 1.7 B cost \$1.4 T. In 2016, disasters displaced 26.2 M people
Air	7 M deaths; welfare loss: \$5 Trillion p.a.
Land	Affects 3.2 B people; Loss: \$4-20 T p.a.
Water	1.4 M deaths p.a. (pathogens); 90% of disasters slow onset disasters; water laced with chemicals
Ocean	Food security (provide 3.1 B people with 20% of protein needs); livelihoods of 58-120 M people;

Figure 2.22: Trends in number of 1999 relevant natural events



Geophysical events
(Earthquake, tsunami, volcanic activity)

Hydrological events
(Flood, mass movement)

Meteorological events
(Tropical cyclone, extratropical storm, convective storm, local storm)

Climatological events
(Extreme temperature, drought, forest fire)

GEO 6

A – pokud nezměníme směr, degradace bude dál pokračovat

B – i přes inovativní politiky nejsou dostatečně efektivní

C – pouze změna na všech úrovních (lokální, regionální, globální) může vést ke zlepšení

PODAŘÍ SE TO?

Global Environment Outlook 6

UN Environment

Příklady úspěchů...

Mezinárodní úmluvy – ozon / POPs / Chráněné oblasti

Masivní rozvoj a pokles ceny obnovitelné energie
(Německo/Čína/USA – tam už 2x více pracovních míst než fosilní průmysl)

Norsko / Afrika / EU – rozvoj udržitelných financí

Bangladéš, Indie, Keňa, EU – regulace plastů

Trh s recykláty – 410 mld. USD celosvětově

Digitální technologie a chytré měřicí přístroje:

potenciál ušetřit 270 mld. USD

...

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FURTHER RESOURCES

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Download Chinese report

Summary for Po

Key messages

Technical Summ



Děkuji za pozornost!

Zdroje obrázků:

Slide č. 3: Wikipedie

Slide č. 4: <https://sdgs.un.org/goals>

Slide č. 5: <https://www.unep.org/resources/report/united-science-report-climate-change-has-not-stopped-covid-19>

Slide č. 6 a 7: <https://www.weforum.org/reports/the-global-risks-report-2021>

Slide č. 8: <https://www.theguardian.com/environment/2019/may/30/anthropocene-epoch-have-we-entered-a-new-phase-of-planetary-history>

Slide č. 9: <https://www.theatlantic.com/photo/2020/01/photos-australia-bushfire-catastrophe/604492/>

Slide č. 10: <https://www.bbc.com/news/science-environment-44215881>

Slide č. 11: <https://denikreferendum.cz/clanek/29820-bez-snizeni-socialni-nerovnosti-nelze-zachranovat-demokracii>

Slide č. 12: <https://www.agrocares.com/2020/11/02/expert-blog-series-on-climate-change-5/>

Slide č. 13, 26: https://twitter.com/shayna_harris14

Slide č. 14 a 16 – 19, 21, 23: <https://www.unep.org/resources/global-environment-outlook-6>

Doporučená kniha: Václav Cílek – Přejít řeku, Dokořán, Praha 2020.