



## **The Right to Know**



To “**secure the future**” citizens must know “**accurate information**” to “**hold governments accountable**” for **adequate, responsible greenhouse gas emissions and natural resource consumption reductions now to** “**limit global warming to well below 2°C preferably 1.5°C**” and “**humans live in harmony with nature by 2050**”, **UN Climate & Biodiversity Treaties.**

# UN CLIMATE & BIODIVERSITY TREATIES

## realizing 1.5°C / 2°C / 1 Earth existential objectives

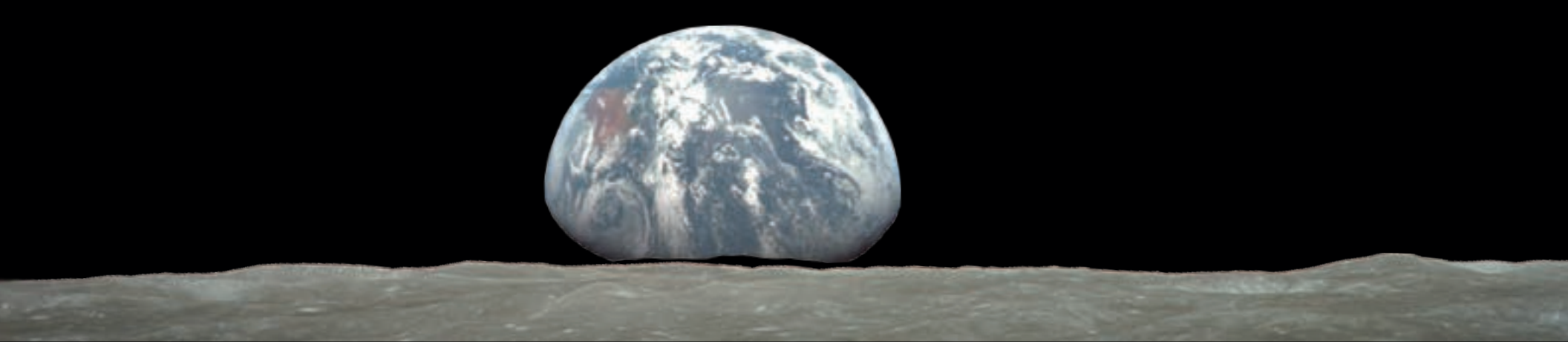
The following fundamental UN environmental science is **unknown to virtually everyone** – but must be known, especially by influential organizations. It is reviewed by IPCC Chair Dr Jim Skea, UNEP Director of Science Dr Jian Liu among other eminent scientists (*list follows*) who urge that press, public and governments be effectively informed now in order to realize

**UN Climate & Biodiversity Treaties'** gravely imperilled existential objectives: “limit global warming to well below 2°C preferably 1.5°C” and “humans live in harmony with nature by 2050” requiring sustainable 1 Earth resource consumption.

- In the 50 years since science warnings began, 1970 to now global warming increased from a harmless 0.2°C to **1.3°C** – a **6 times** increase (*IPCC 83% likelihood*); consumption increased from a safe 0.4 Earths to **1.5 Earths** – a **4 times** increase (*IRP sustainable consumption*).
- In 50 years **absolutely nothing** has been, is being, or is intended to be done to stop global **relentless acceleration** of greenhouse gas emissions, the cause of climate change, and natural resource consumption, the cause of nature destruction including 90% biodiversity loss.
- Current global policies and actions lead to **1.5°C** emitted in just 4 years (*IPCC 83% likelihood*), **2°C** in only 17 years, and by **2055** ruinous **2.5°C** global warming emitted with **3 Earths** consumption. These are unabated trends to massive global shortages of all the **essentials for life** - food, water, energy, medicines, shelter - risking hundreds of millions dead, billions displaced from lands rendered uninhabitable, social-economic collapse, no one safe anywhere.
- Since the first UN Environment Conference in 1972, action is to be by national “**responsibility**”, national “contribution to global environmental degradation”, as we teach our children “clean up the mess you make”. UN Ultra High developed nations (**red in map**) are per capita by far the most responsible, the biggest mess makers.
- Ultra High developed - the most educated, healthiest, and wealthiest - set the standards for all nations. Ultra High are just **12%** of humanity with an extraordinary **64%** of global wealth, causing **50%** of climate changing emissions, and **37%** of nature destroying consumption. In the 50 years of science warnings Ultra High have **increased** consumption 25%, and are **not** meaningfully reducing emissions.
- Ultra High lead humanity in **NOWISM**, “everything for the present, nothing for the future, maintain and increase living standards for us now, more cheap energy, more cheap materials now”.
- To realize agreed 1.5°C, 2°C, 1 Earth objectives, Ultra High **refuse to reduce responsibly** - and so to achieve desired Ultra High living standards for themselves - all nations are raising their emissions and consumption toward the **planet-destroying** per capita levels of Ultra High.

Influential organizations and persons must inform citizens, media, young people of this **accurate information**, so they can **demand responsible, adequate Ultra High reductions now**. If citizens remain uninformed - then risks of hundreds of millions dead, billions displaced, no one safe anywhere will likely become reality.

**ExistentialStocktake.org** for complete UN science information with references including all **197 nation Parties' responsible 1.5°C, 2°C, 1 Earth reductions now**.



**Only one Earth, Existential Stocktake UN science** was reviewed and is supported for public communication by IPCC Chair Dr Jim Skea among other eminent scientists (below) in the Global North, “the most responsible and capable” and by Organizations representing Science in 88 nations with 40% of humanity, the Global South, “the least responsible who suffer the most and are least able to deal with it” including

- COMSTECH, OIC Ministerial Committee on Science & Technology, Prof. Dr. Iqbal Choudhary Coordinator General,
- NASAC, Network of African Science Academies, Prof. Norbert Houkonou President.
- AAS, African Academy of Sciences, Prof. Felix Dakora President,
- ACAL, Academy of Sciences Latin America, Prof. Claudio Bifano President.
- IAS, Islamic World Academy of Sciences, Prof. Adnan Badran President.

Existential Stocktake is part of UN Only one Earth science reviewed and supported for public communication by IPCC Chair Dr Jim Skea, IPCC Co-Chairs Dr Valérie Masson Delmotte, Dr Panmao Zhai, Dr Hans Pörtner, Dr Debra Roberts; UNEP Emissions Gap Reports’ “intellectual leaders” Dr Bert Metz, Dr John Christensen; IRP Co-Chairs Dr Janez Potocnik, Dr Izabella Teixeira, founding Co-Chairs Dr Ashok Khosla, Dr Ernst Weizsaecker.

UN Only one Earth science is considered “an important contribution to the UN 75th Anniversary Initiative”\*, reviewed with public communication supported by Dr Jian Liu, Chief Scientist UNEP, Dr Pavel Kabat, Chief Scientist WMO, Dr Soumya Swaminathan, Chief Scientist WHO, Dr Youba Sokona, Vice Chair IPCC, Dr Shamila Nair-Bedouelle, Director General Science UNESCO, Dr Guido Schmidt-Traub, Executive Director UNSDSN, Dr Elizabeth Mrema, Executive Secretary CBD, Dr Stefan Swartling Peterson, Director Health UNICEF.

\* Fabrizio Hochschild, UN Technology Envoy, UN 75th Anniversary Special Advisor.

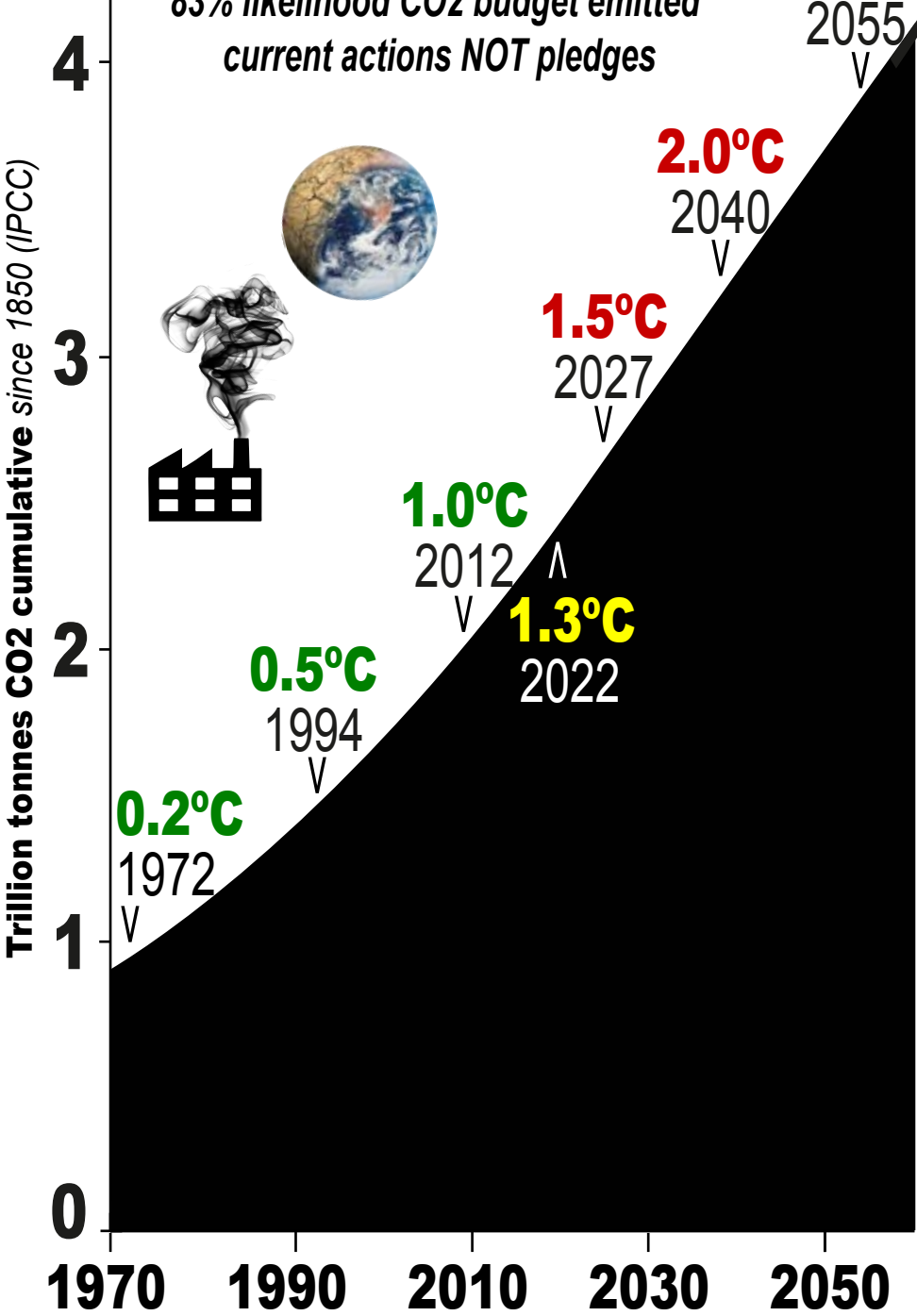
Michael Wadleigh and Birgit van Munster, Existential Stocktake coordinators,  
+44 7538 416407, [ExistentialStocktake@gmail.com](mailto:ExistentialStocktake@gmail.com).

# Greenhouse gas emissions

cause of climate change

83% likelihood CO2 budget emitted

current actions NOT pledges



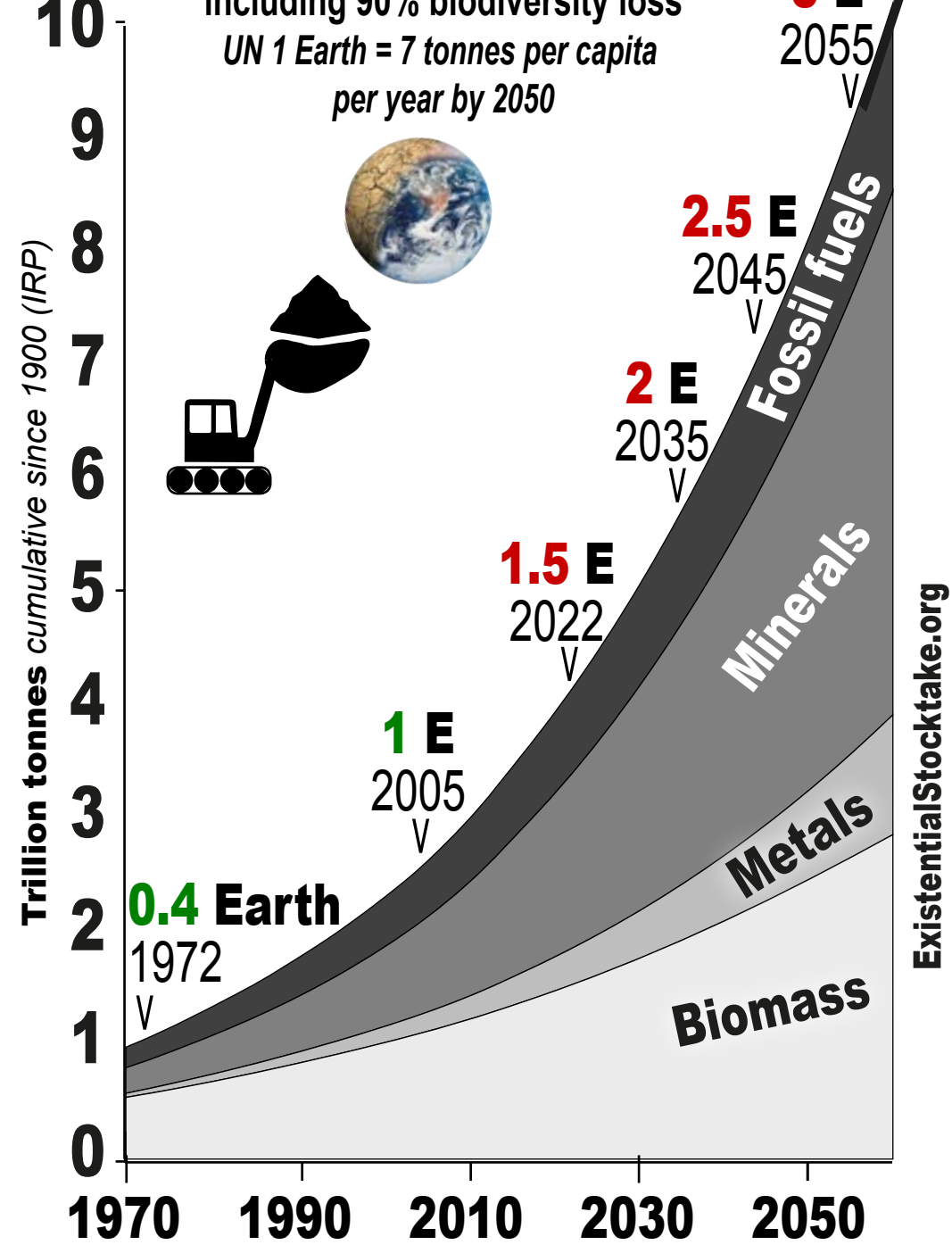
# Natural resource extraction

cause of nature destruction

including 90% biodiversity loss

UN 1 Earth = 7 tonnes per capita

per year by 2050

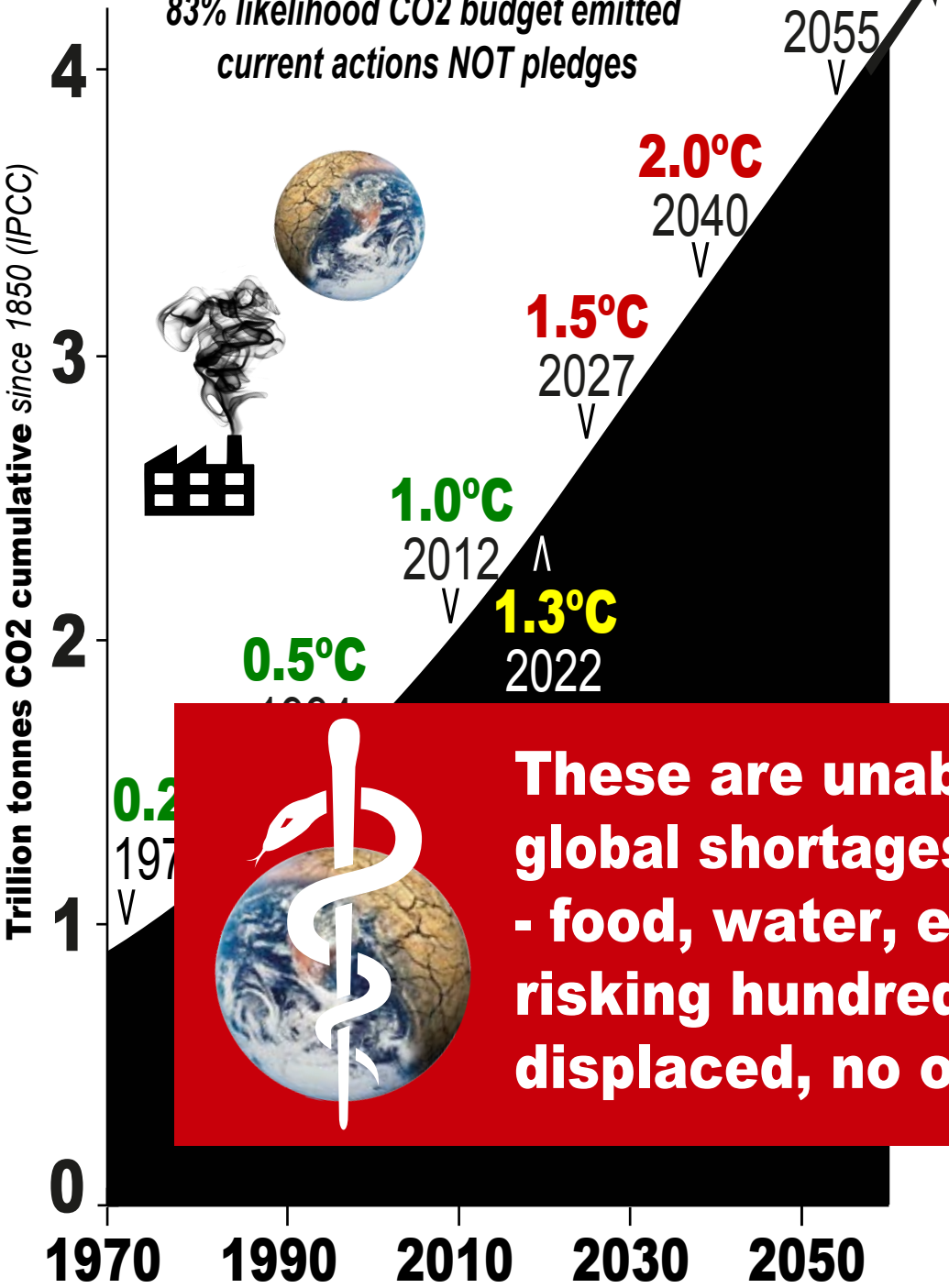


# Greenhouse gas emissions

cause of climate change

83% likelihood CO2 budget emitted

current actions NOT pledges



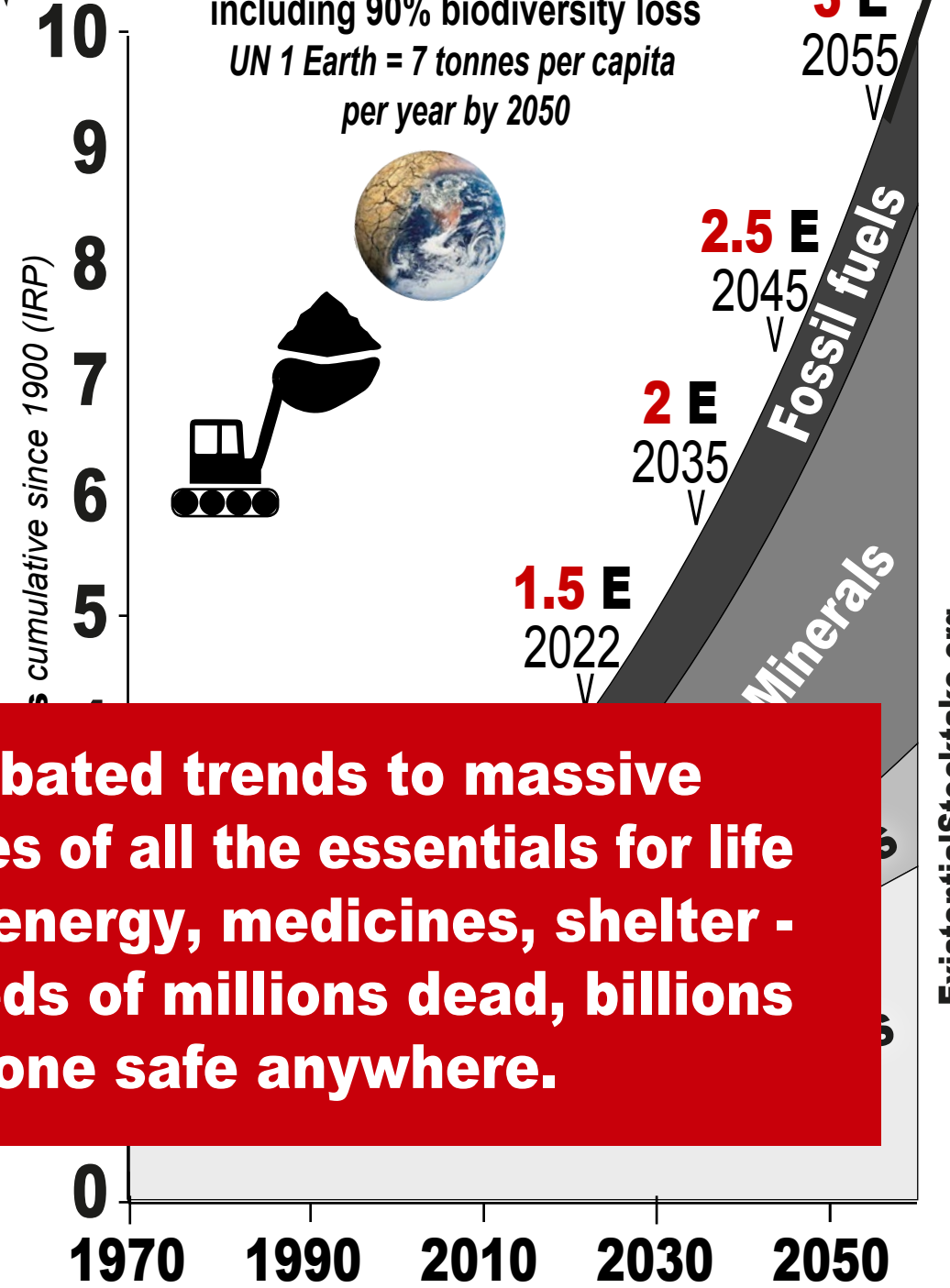
# Natural resource extraction


cause of nature destruction

including 90% biodiversity loss

UN 1 Earth = 7 tonnes per capita

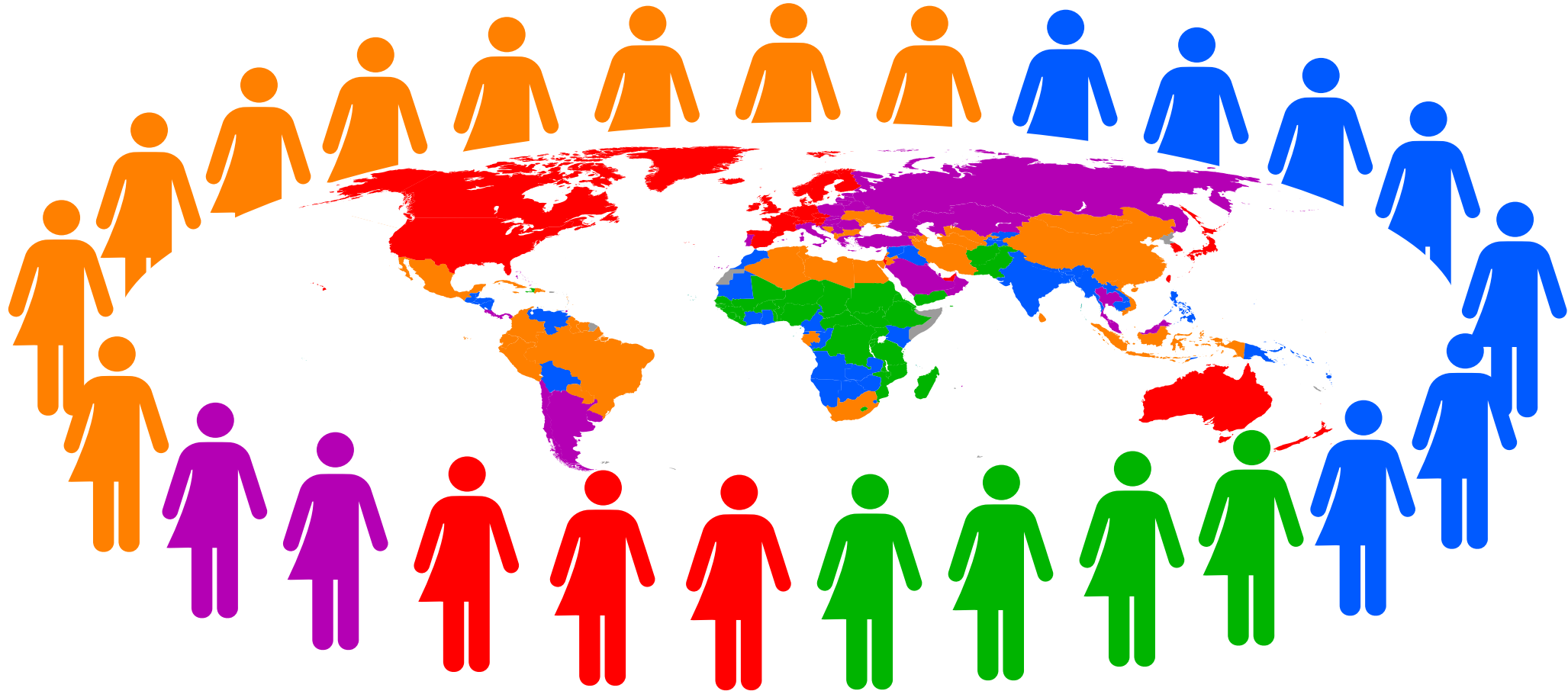
per year by 2050



**These are unabated trends to massive global shortages of all the essentials for life - food, water, energy, medicines, shelter - risking hundreds of millions dead, billions displaced, no one safe anywhere.**



**UN Climate & Biodiversity Treaties,  
“limit global warming to well below  
2°C preferably 1.5°C” & “humans live  
in harmony with nature by 2050”.**



**Since 1972 action is by “national responsibility, contribution to  
global environmental degradation”, clean up the mess you make.**

**UN development **ULTRA HIGH** (12%) **VERY HIGH** (9%) **HIGH** (35%) **MEDIUM** (28%) **LOW** (15% pop.)**

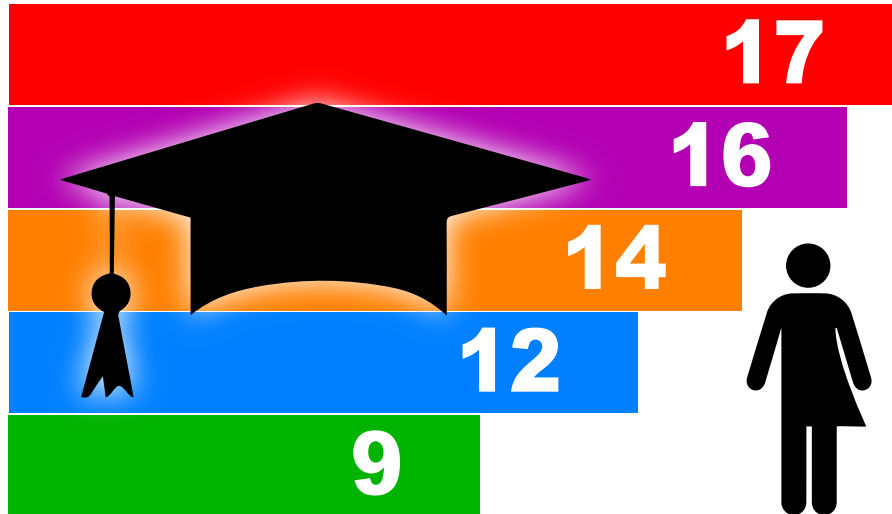


**CAPABILITIES**  
UN Development  
Groups 2022

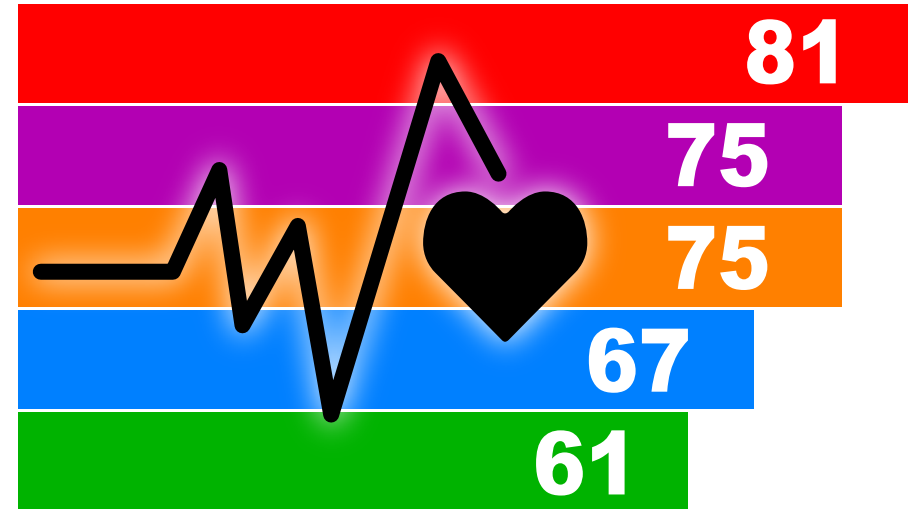
**ULTRA HIGH** (12%)  
**VERY HIGH** (9%)  
**HIGH** (35%)  
**MEDIUM** (28%)  
**LOW** (15% pop.)



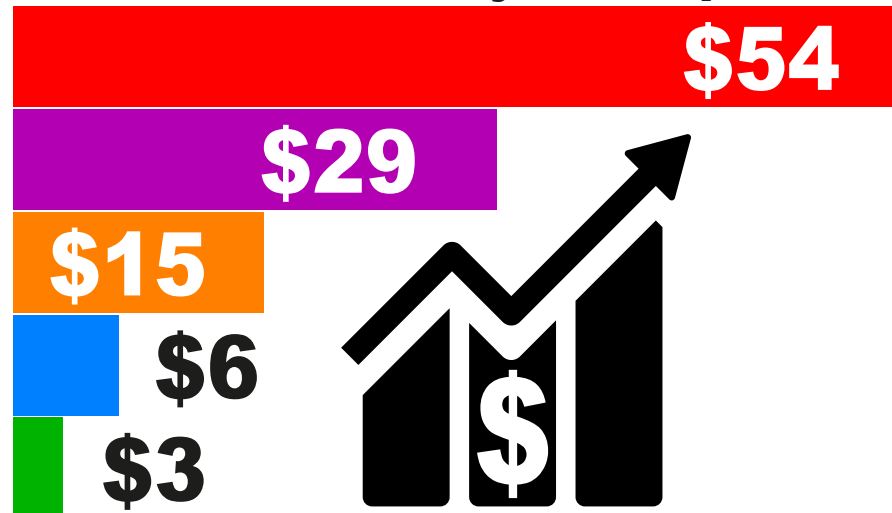
**EDUCATION** years / capita



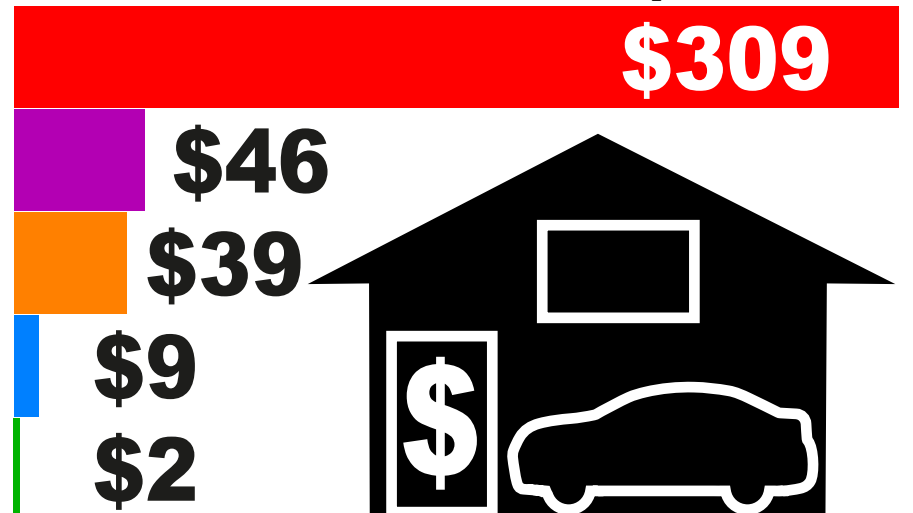
**LIFE EXPECTANCY** years / capita

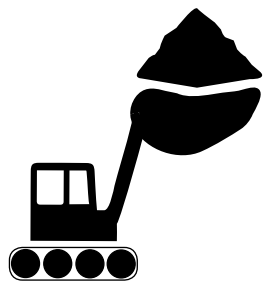


**INCOME** +000 / year / capita



**WEALTH** +000 / capita





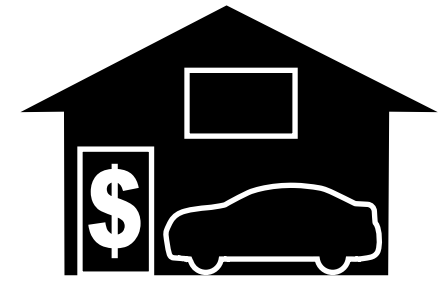
**Responsibility**

→  
*degradation*



**Capability**

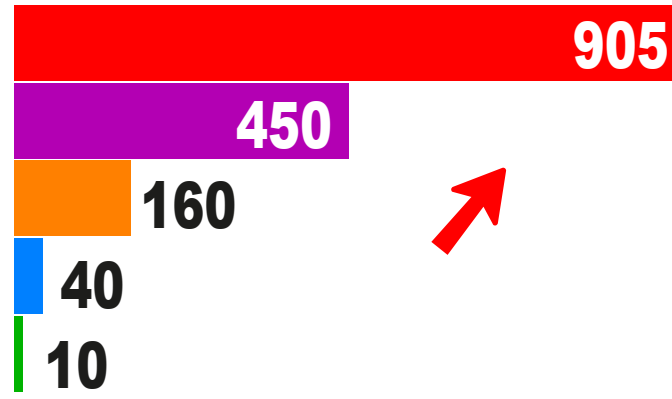
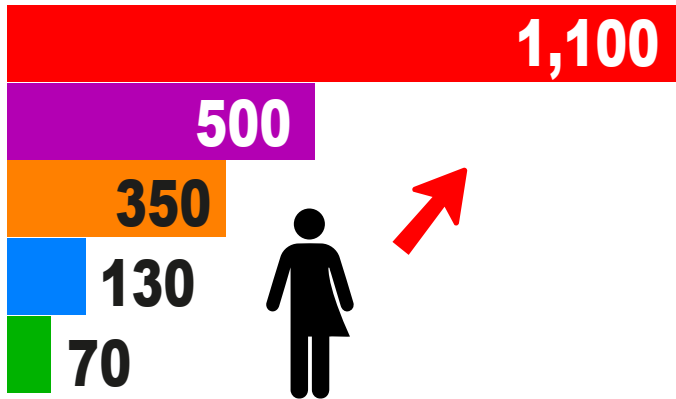
→  
*living standard*



**RESOURCE CONSUMPTION**  
cumulative tonnes / cap

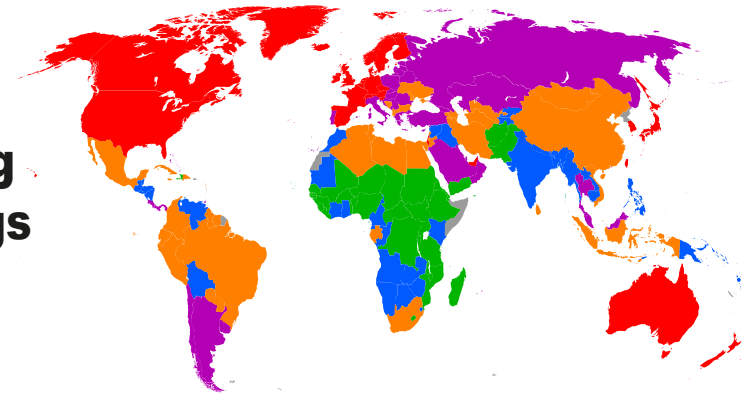
**EMISSIONS CO2**  
cumulative tonnes / cap

**WEALTH (living standard)**  
\$ per capita



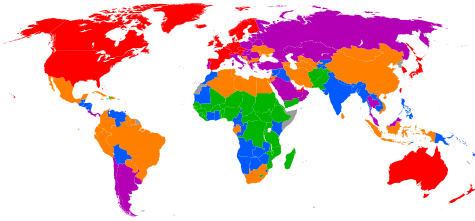
**ULTRA HIGH** set the standards: 12% of humanity have 64% of global wealth, cause 50% of climate changing emissions and 37% of nature destroying consumption. In the 50 years of science warnings Ultra High have increased consumption 25% and are not meaningfully reducing emissions.

If Ultra High continue to refuse to reduce responsibly, to attain desired living standards, 88% of humanity will continue to raise their consumption and emissions toward the per capita level of Ultra High - social-economic collapse.



UN development **ULTRA HIGH** (12%) **VERY HIGH** (9%) **HIGH** (35%) **MEDIUM** (28%) **LOW** (15% pop.)





**Responsibilities**

Degradation



**Capabilities**

Living standard



**UN Development Index rank G20**

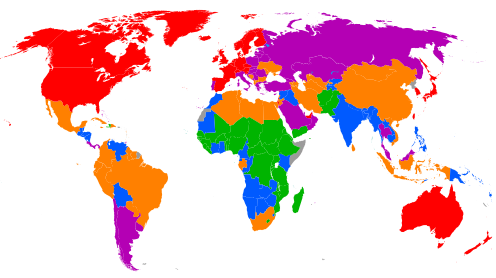
**RESOURCE CONSUMPTION**  
cumulative tonnes / cap

**EMISSIONS CO2**  
cumulative tonnes / cap

**WEALTH (living standard)**  
\$/ cap

Australia	1,460	740	411,000
Germany	1,090	1,145	210,000
Canada	1,335	910	324,000
United Kingdom	860	1,340	242,000
Japan	1,015	550	207,000
Korea Republic	695	375	196,000
United States	1,190	1,280	433,000
France	815	615	250,000
European Union	940	305	178,000
Italy	860	435	194,000
Saudi Arabia	655	470	57,700
Argentina	540	195	7,200
Turkey	405	135	13,500
Russia	545	835	26,100
China	420	180	60,000
Mexico	345	165	32,900
Brazil	505	80	15,500
South Africa	370	370	15,800
Indonesia	150	55	12,400
India	125	40	10,100
Low developed	70	10	2,200

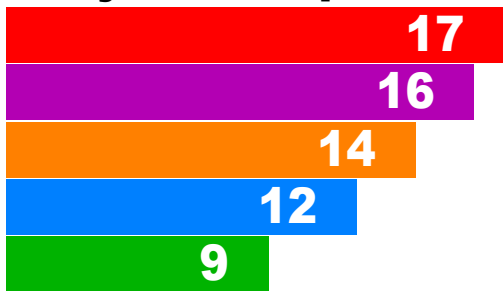
**Above are G20 “largest economy” nations, 62% of humanity with 90% of global wealth causing cumulatively 87% of CO2 emissions and 80% of natural resource consumption.**



**Ultra High** lead humanity in “NOWISM, everything for the present, nothing for the future - maintain and increase living standards for us now, more cheap energy and materials now”.



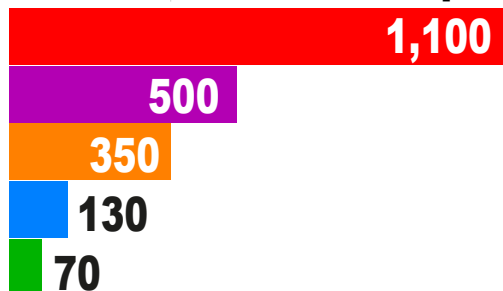
**EDUCATION**  
years / cap



**RESPONSIBILITY**

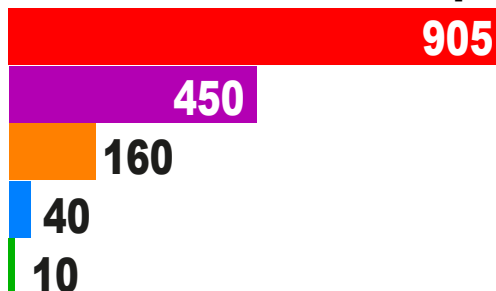
*degradation*

**RESOURCE CONSUMPTION**  
cumulative tonnes / cap



*living standard*

**EMISSIONS CO2**  
cumulative tonnes / cap



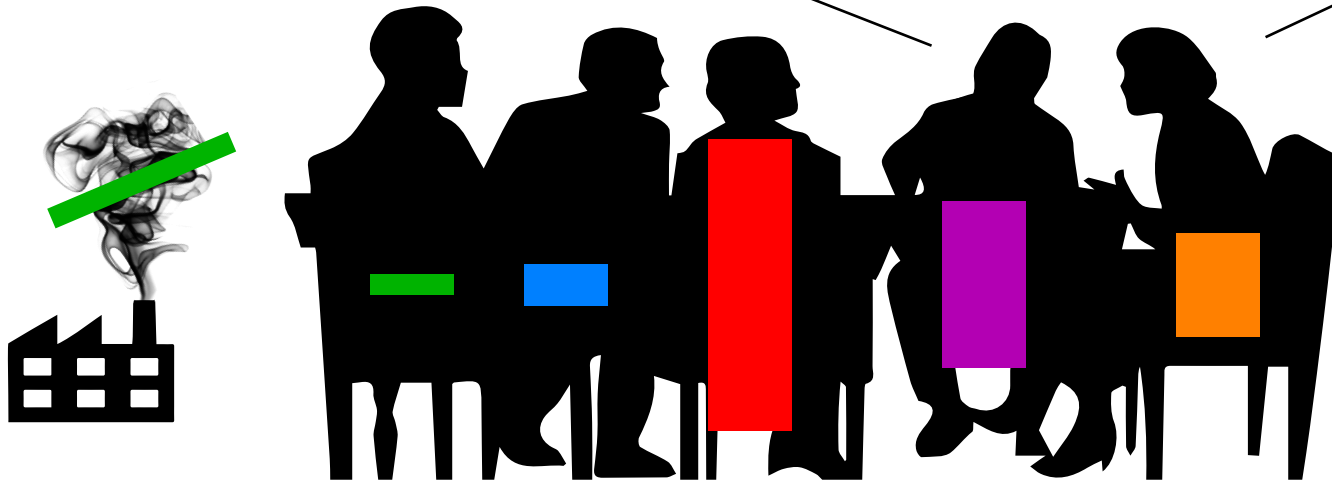
**WEALTH (living standard)**  
\$/ cap



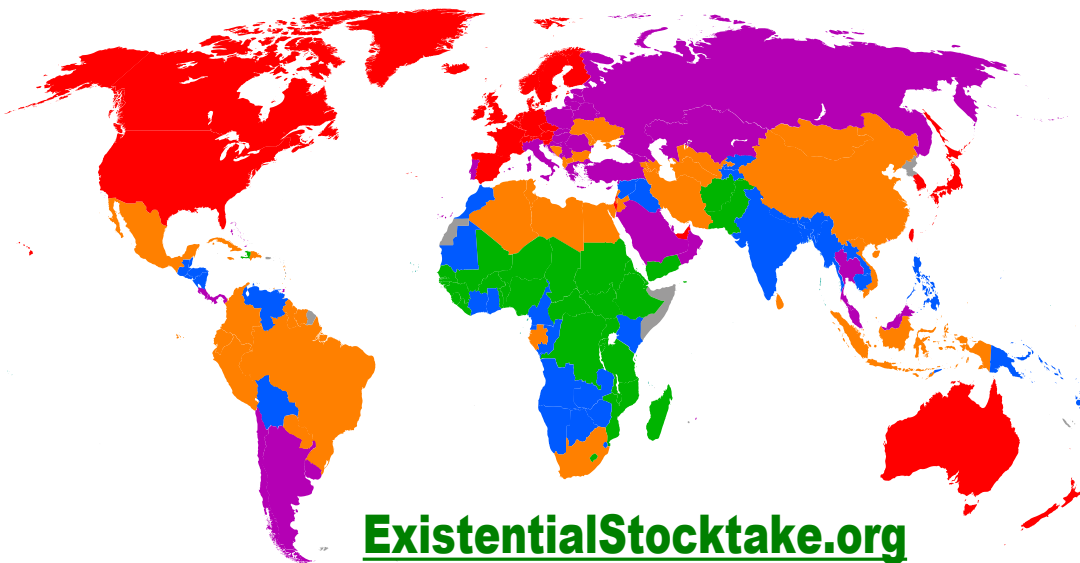
**EDUCATION 17 years is failing**

We agree that global warming is dangerous and must be stopped at 2°C preferably 1.5°C - to do this we must reduce CO2 emissions to UN science limits.

Since 1972 the way to do that is by responsibility, clean up the CO2 mess each of us is making now. There's no other way that people agree on.



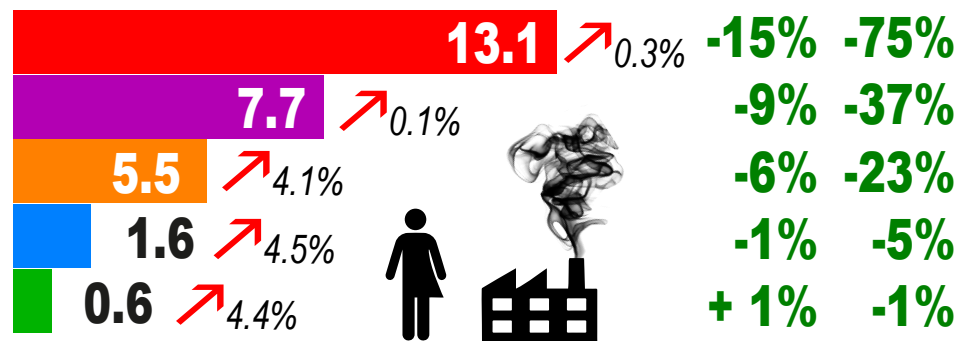
For 1.5°C / 2°C clean up the CO2 mess you make now!



[ExistentialStocktake.org](http://ExistentialStocktake.org)

CO2 tonnes per person per year *plus trends*

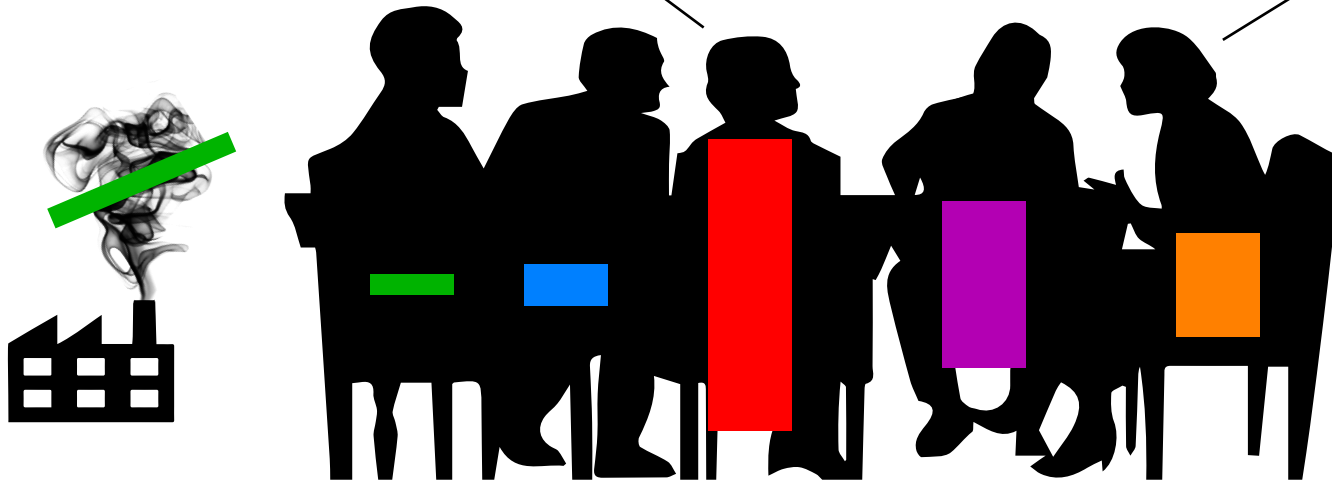
Current responsibility



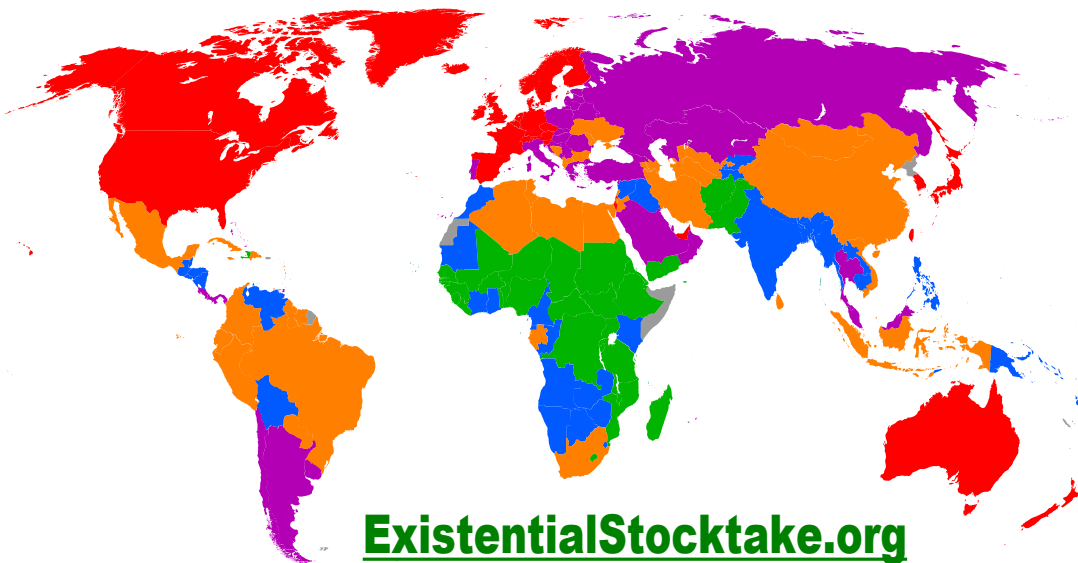
UN development **ULTRA HIGH** (12%) **VERY HIGH** (9%) **HIGH** (35%) **MEDIUM** (28%) **LOW** (15% pop.)

**UN Climate Treaty recommends**  
 “for 1.5°C reduce global GHG emissions 43% by 2030, 60% by 2035, net zero CO2 by 2050”.

**This one-global-action-for-all is good for you -**  
**your emissions** are greater than any of ours,  
 22 times more than **Low developed** - we won't  
 agree. And these reductions are “by 2030, 2050”  
 when 1.5°C and 2°C will likely be emitted!



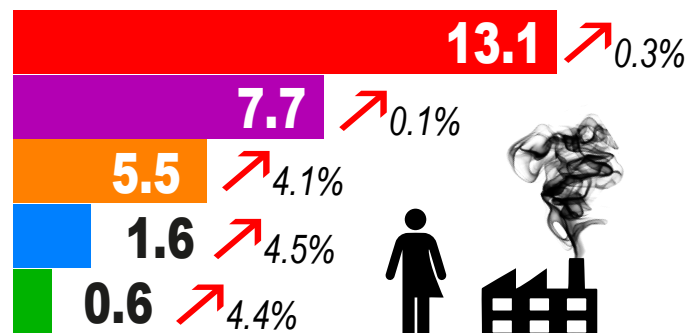
**For 1.5°C / 2°C**  
**clean up the**  
**CO2 mess**  
**you make now!**



[ExistentialStocktake.org](http://ExistentialStocktake.org)

**CO2 tonnes per person**  
 per year *plus trends*

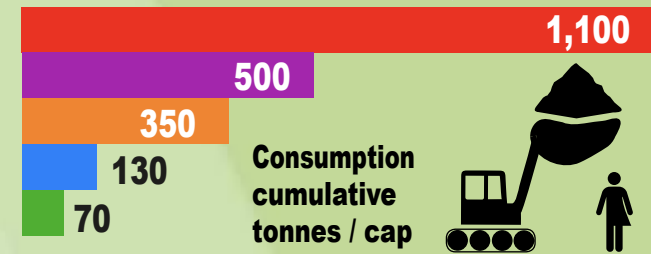
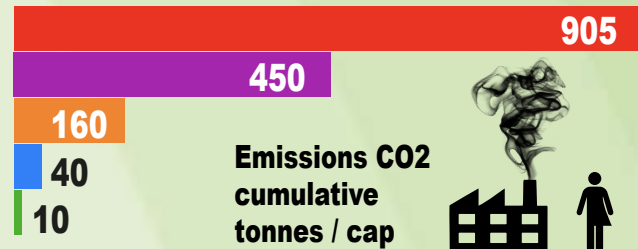
**Current responsibility**



	Reduce per year now for 2°C	1.5°C
13.1	-15%	-75%
7.7	-9%	-37%
5.5	-6%	-23%
1.6	-1%	-5%
0.6	+1%	-1%

UN development **ULTRA HIGH** (12%) **VERY HIGH** (9%) **HIGH** (35%) **MEDIUM** (28%) **LOW** (15% pop.)

# To SECURE OUR FUTURE we must reduce emissions and consumption RESPONSIBLY –



if we don't, others won't -

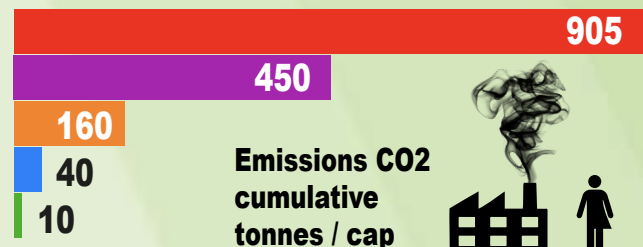
## EU ACT NOW

for 1.5°C **-37%** 2°C **-9%** current **-5%**  
for 1 Earth **-4%** current **-1%** per year now

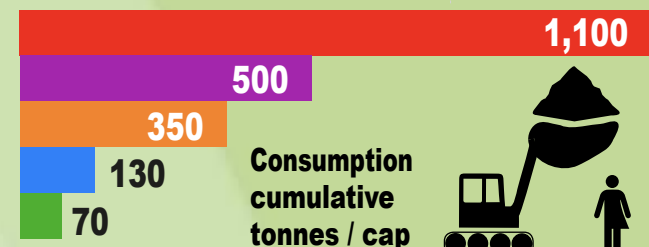
Reductions by current responsibility IPCC 83% (best) likelihood, no overshoot, no negative emissions



To **SECURE OUR FUTURE**  
 we must reduce emissions  
 and consumption  
**RESPONSIBLY** –



Emissions CO2  
 cumulative  
 tonnes / cap



Consumption  
 cumulative  
 tonnes / cap



if we don't, others won't -

**EU ACT NOW**

for 1.5°C **-37%** 2°C **-9%** current **-5%**  
 for 1 Earth **-4%** current **-1%** per year now

Reductions by current responsibility IPCC 83% (best) likelihood, no overshoot, no negative emissions

# SAVE OUR FUTURE - EU CUT EMISSIONS & CONSUMPTION NOW



for 1.5°C **-37%** 2°C **-9%** current **-5%**  
for 1 Earth **-4%** current **-1%**

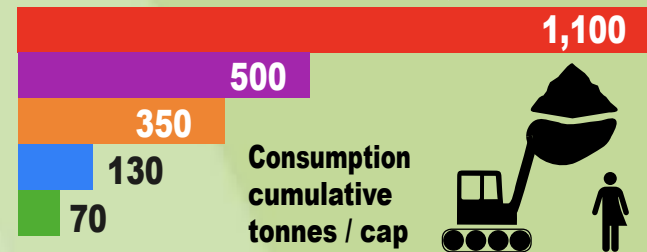
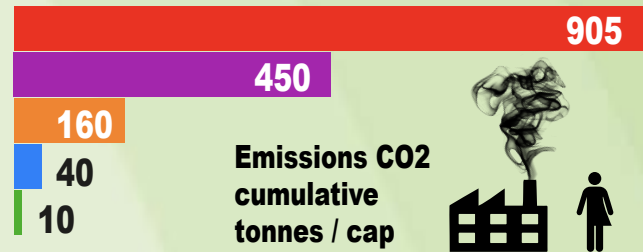
for all 197 nations  
Existential Stocktake



THE RIGHT TO KNOW



# To SECURE THE FUTURE EU must reduce emissions and consumption RESPONSIBLY –



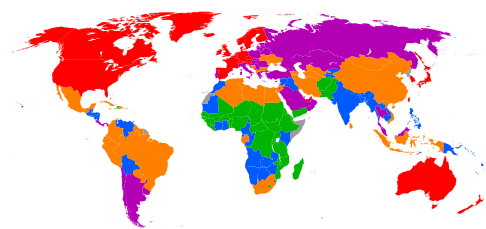
if we don't, they won't -

## EU ACT NOW

for 1.5°C **-37%** 2°C **-9%** current **-5%**  
for 1 Earth **-4%** current **-1%** per year now

Reductions by current responsibility IPCC 83% (best) likelihood, no overshoot, no negative emissions





# Current responsibility & reductions



UN Development Index rank G20

**EMISSIONS CO2**  
current tonnes / cap

**Reduce**  
per year  
now for  
**2°C 1.5°C**

**RESOURCE CONSUMPTION**  
current tonnes / cap & trends

**Reduce**  
per year  
now for  
**1 EARTH**

Country	Current CO2 Emissions (tonnes/cap)	Change (%)	2°C Reduction (%)	1.5°C Reduction (tonnes/cap)	Current Resource Consumption (tonnes/cap)	Change (%)	1 Earth Reduction (%)
Australia	14.8	↑1%	-18.1%	-15 t/cap*	46.5	↑2%	-6.3%
Germany	10.5	↓-1%	-11.5%	-51.7%	19.5	↓-0.3%	-4.3%
Canada	14.5	↑0.3%	-16.8%	-91.0%	34.9	↑1%	-5.4%
United Kingdom	8.0	↓-0.9%	-8.2%	-33.6%	18.1	↑0.1%	-3.5%
Japan	10.3	↓-0.2%	-11.7%	-53.5%	18.3	↓-0.6%	-4.5%
Korea Republic	14.1	↑3%	-16.9%	-91.1%	21.8	↑3%	-4.9%
United States	17.6	↑0.4%	-21.0%	-21 t/cap*	29.2	↑1%	-5.1%
France	6.7	↓-0.6%	-7.0%	-27.4%	17.3	↑0.4%	-3.6%
European Union	8.2	↓-0.7%	-9.1%	-37.1%	18.9	↑0.1%	-4.1%
Italy	7.5	↓-0.9%	-7.9%	-31.8%	12	↓-2%	-2.8%
Saudi Arabia	18.4	↑4%	-26.2%	-31 t/cap*	28.7	↑4%	-4.4%
Argentina	3.9	↑1%	-4.0%	-14.8%	15.8	↑2%	-2.8%
Turkey	4.9	↑2%	-5.7%	-21.4%	17.5	↑4%	-3.2%
Russia	9.8	↓-1%	-11.8%	-53.6%	9.5	↓-2%	-1.8%
China	7.2	↑5%	-8.8%	-36.4%	22.1	↑6%	-4.8%
Mexico	4.3	↑2%	-3.9%	-14.4%	11.1	↑2%	-1.5%
Brazil	2.3	↑2%	-1.9%	-7.6%	18.8	↑3%	-3.6%
South Africa	5.9	↑1%	-6.1%	-23.4%	7.6	↑0.3%	+0.2%
Indonesia	2.6	↑6%	-2.6%	-9.8%	6.8	↑4%	+0.4%
India	1.8	↑5%	-1.6%	-6.7%	5.2	↑3%	+1.5%
Low developed	0.6	↑4%	+1.5%	-1.0%	3.1	↑4%	+5.3%

ExistentialStocktake.org

**Ultra High** set the standards, the basic commitment of 88% lesser developed is that - to achieve desired UH living standards (wealth) - they will raise their consumption and emissions to the per capita level set by UH, ensuring social-economic collapse.

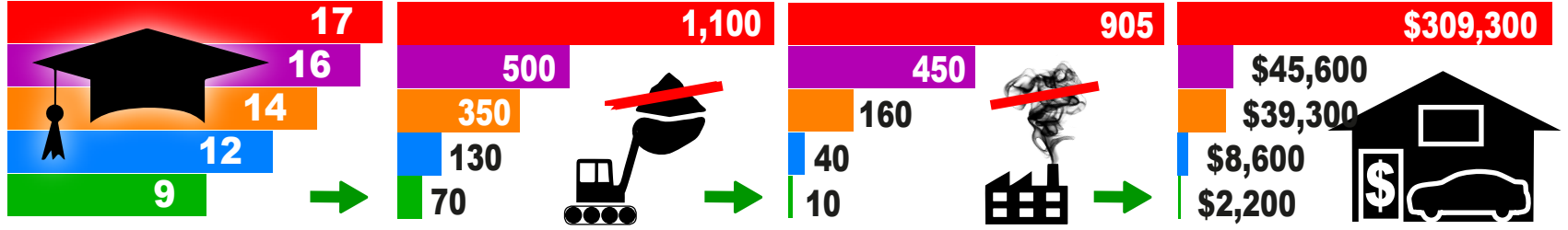
**DEVELOPMENT**  
UN 2022

**EDUCATION**  
years per capita

**RESOURCE CONSUMPTION**  
cumulative tonnes / cap

**EMISSIONS CO2**  
cumulative tonnes / cap

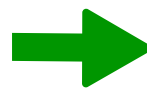
**WEALTH (living standard)**  
\$ per capita



ExistentialSocketake.org



**“Good repute ultimately rests on clearly visible consumption of goods”, 1899 (and 124 years later), Thorstein Veblen.**



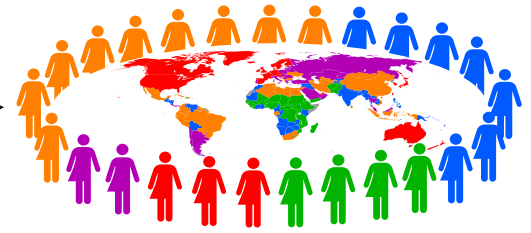
**After basic needs are met happiness is first humans, activities and nature - not products, the destroyer of nature (us).**

“Clean up  
the mess  
you make”

**CONSUMPTION**  
1 NATIONAL  
reduction  
tonnes

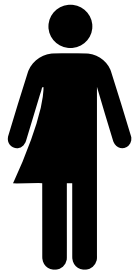
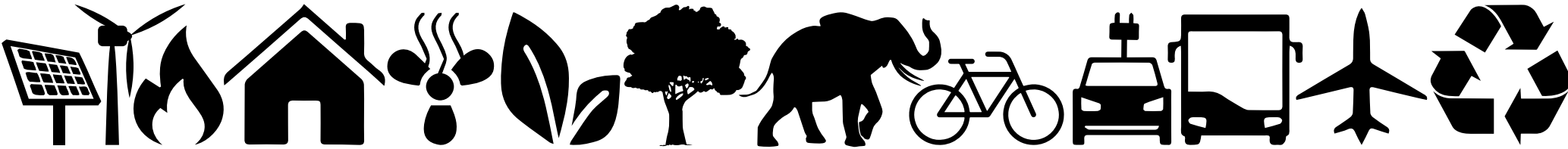


**EMISSIONS CO2**  
1 NATIONAL  
reduction  
tonnes

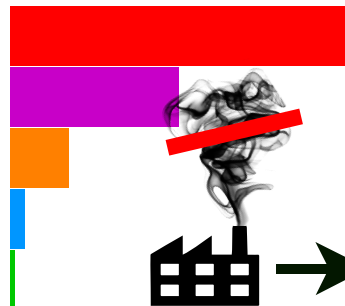


“Less meat, driving, flying -  
More solar, cycling, insulation” -  
**ADD IT UP !**

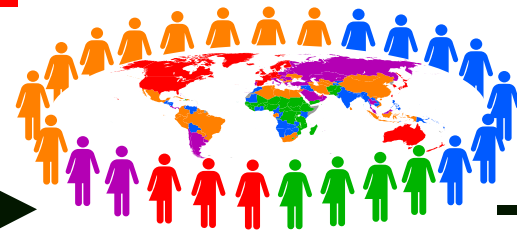
**NATIONAL LAWS**  
~~voluntary action~~



All the many national actions (means) must add up to  
1 national GHG emission (cause) reduction for 1.5°C / 2°C &  
1 national consumption (cause) reduction for 1 Earth



**RESPONSIBILITY**



We cannot get  
**1.5°C**  
global warming  
without stopping  
this clock before  
it strikes zero:



We cannot get  
**1 Earth**  
consumption  
without slowing  
this clock to stop  
at 68 Gt per year:

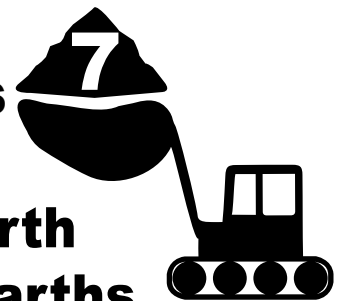
Cause of climate change:



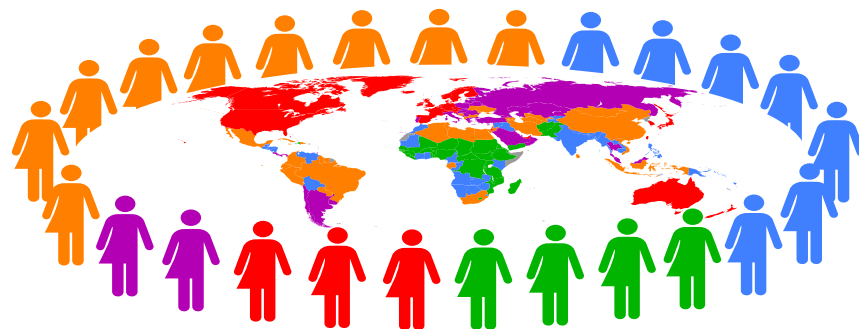
**CO2 emissions every**  
**1 second** 1,300 tonnes  
**1 hour** 5 million tonnes  
**9 days** 1 billion tonnes  
**1 year** 40 Gt = 1.3°C  
**4 years** = 1.5°C  
**17 years** = 2°C

Cause of 90% biodiversity loss:

**Natural resource consumption every**  
**1 second** 3,200 tonnes  
**1 hour** 12 million tonnes  
**4 days** 1 billion tonnes  
**Aug 31** 68 Gt = 1 Earth  
**2023** 104 Gt = 1.5 Earths  
**2055** = 3 Earths



UN  
Climate & Biodiversity  
Treaties -



the problem is  
**NOWISM**  
the solutions is  
**RESPONSIBILITY**

# RESPONSIBILITY

# ~~NOWISM~~



**INFLUENTIAL** action by us **Grandmas,**  
**Grandpas, Moms, Dads** to secure the future

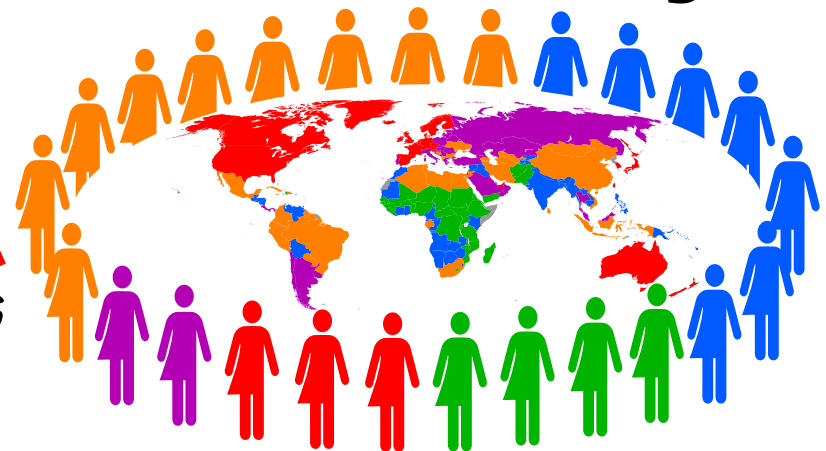
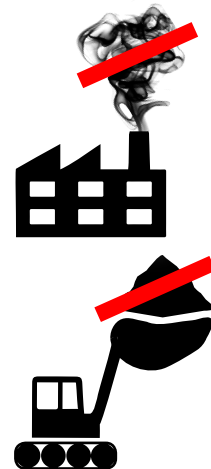
**Adequate responsible reductions by**

**OUR GOVERNMENT**

**now for 1.5°C / 2°C /**

**1 Earth UN objectives**

**ExistentialStocktake.org**



**UN CLIMATE TREATY** by 195 nation Parties, “stabilize greenhouse gas atmospheric concentrations... prevent danger... limit global warming to well below 2°C preferably 1.5C”.

Since 1972 action is by “national responsibility, contribution to global environmental degradation”, clean up the mess you make.

**EU:** After the 1970 science warnings, EU’s 1990 GHG emissions were 7% greater than in 1970, and have since reduced only 1% per year

**By current responsibility EU should reduce CO2 per year now, 9% for 2°C, 37% for 1.5°C – if we in the EU, the most educated, healthy and wealthy don’t clean up the mess we’re making, others who are less responsible won’t, and my future will likely be destroyed!**

**Compared to 1990, EU intends to reduce emissions 55% by 2030, 6% per year, then 90% by 2040, 14% per year, then climate neutral by 2050, 45% per year – we’ll clean up part of the mess we make, but for your 1.5°C and 2°C we expect countries who are less responsible to clean up the rest of our mess for us.**



*“accurate information” is required for  
“participation in political and democratic life”*

*195 nations’ responsible actions  
[ExistentialStocktake.org](https://ExistentialStocktake.org)*



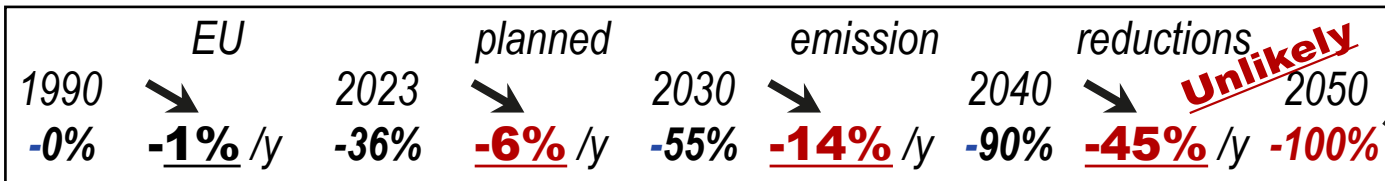
EU public communication



## EU is on track for

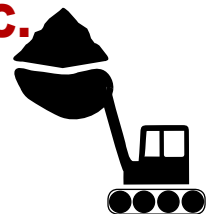
- 55% emissions by 2030
- 90% emissions by 2040
- Climate neutrality by 2050
- 30% land-water protected by 2030

**IS EU ON TRACK?** “Accurate information” to “hold government accountable” for EU agreed “limit global warming to well below 2°C preferably 1.5°C” & “Humans live in harmony with nature by 2050”, UN Climate & Biodiversity Treaties:



“Neutrality” means EU plus other countries reduce

- EU’s 1.5°C plans are based on IPCC’s **50% likelihood** budget, not the best 83%, plus **overshooting** 1.5°C and attempting return, more risk, plus tens of billions of tonnes of **negative emissions** which science does not know how to do.
- IF the EU plan is accomplished and all nations are emitting like the EU, **1.5°C is emitted next year, 2°C in 15 years** (83% likelihood), 2.1°C total.
- However, EU nations’ **policies & actions are inadequate** to achieve the EU plan, and if all nations emit like the EU does, it likely results in **catastrophic 4°C**.
- “**Protecting land-water**” does not reduce natural resource consumption, the cause of 90% biodiversity loss. EU’s current **consumption is 270%** of the UN sustainable limit, **2.7 Earths**, EU is reducing about **1%** per year.



Y  
O  
ARE  
EU



## REALITY CHECK

“By 2030 reduce 55%  
by 2040 reduce 90%  
by 2050 climate neutral  
protect 30% by 2030”

- ▶ by 2027 1.5°C emitted<sup>1</sup>
- ▶ by 2035 1.8°C emitted<sup>1</sup>
- ▶ by 2041 2.0°C emitted<sup>1</sup>
- ▶ 3 Earths consumption<sup>2</sup>

## EU ACT NOW



for 1.5°C **-37%** 2°C **-9%** current **-5%**  
for 1 Earth **-4%** current **-1%** per year now

*Reductions by current responsibility IPCC 83% (best) likelihood, no overshoot, no negative emissions;  
<sup>1</sup> on current actions IPCC 83% (best) likelihood,, <sup>2</sup> on current actions, “protect” does not reduce consumption*



# IPCC Data

The Task Group on Data Support for Climate Change Assessments aims to provide guidance

**IPCC Data, Technical Support Unit confirms that the historic greenhouse gas emissions data and CO2 emissions from consumption data that IPCC uses can be found curated here:**

**Greenhouse gas emissions, global, regional & national 1750 to 2019 and onward:**

- Minx at all., 2021: A comprehensive and synthetic dataset for global, regional, and national greenhouse gas emissions by sector 1970–2018 with an extension to 2019. *Earth Syst. Sci. Data*, 13(11), 5213–5252, doi:10.5194/essd-13-5213-2021
- Gütschow, J., A. Günther, and M. Pflüger, 2021a: The PRIMAP-hist national historical emissions time series (1750–2019) v2.3. *Earth Syst. Sci. Data*, 8, 571-603, doi:10.5194/essd-8-571-2016.CO2 emissions 1850-2019:
- Friedlingstein, P. et al., 2020: Global Carbon Budget 2020. *Earth Syst. Sci. Data*, 12(4), 3269–3340, doi:10.5194/essd-12-3269-2020

**National CO2 emissions from consumption 1990 to 2018 and onward:**

- Friedlingstein, P. et al., 2020: Global Carbon Budget 2020. *Earth Syst. Sci. Data*, 12(4), 3269–3340, doi:10.5194/essd-12-3269-2020