

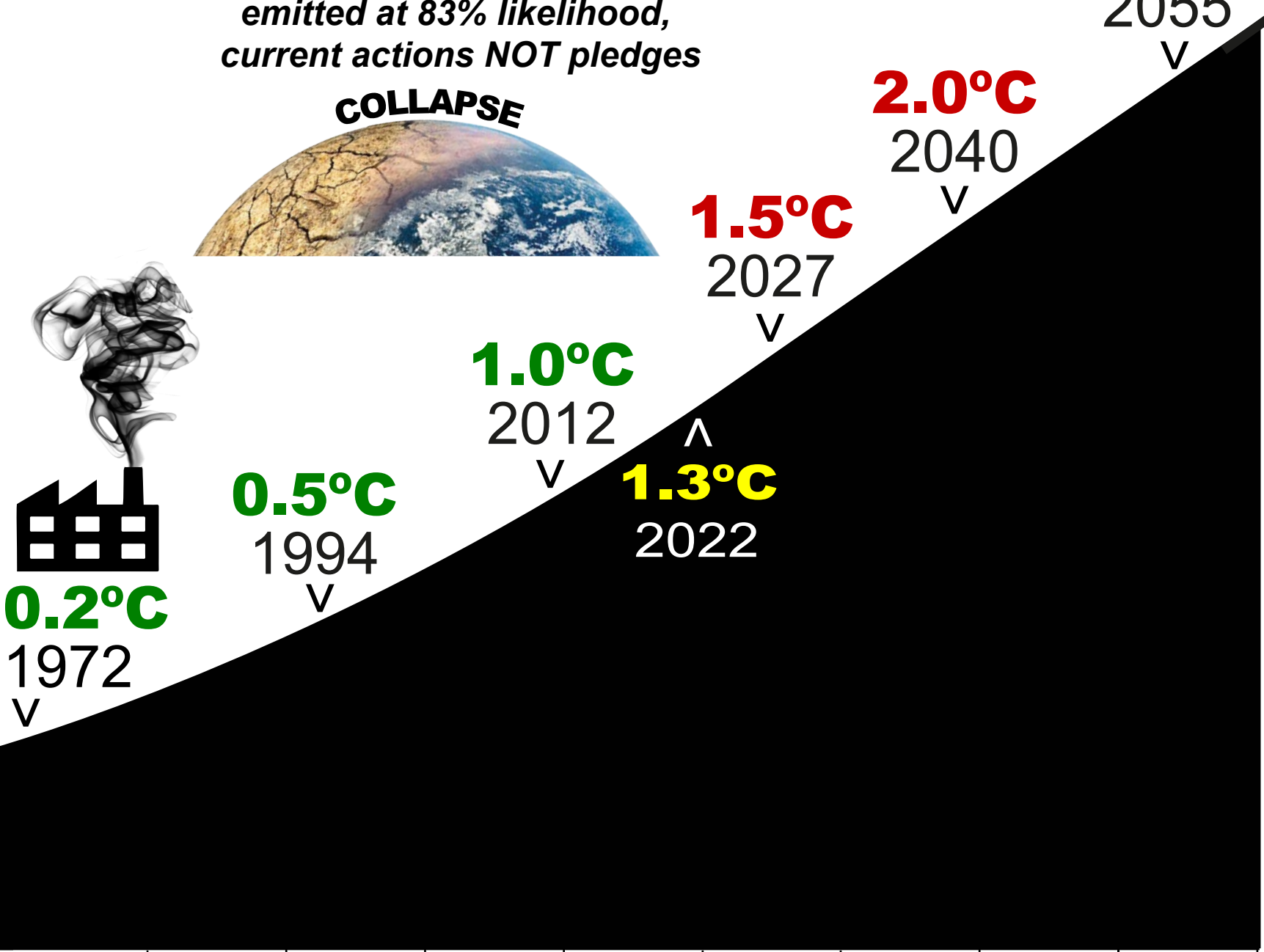
Greenhouse gas emissions

the cause of climate change

*emitted at 83% likelihood,
current actions NOT pledges*

Trillion tonnes CO₂ cumulative since 1850 (IPCC)

4
3
2
1
0



COLLAPSE



and it won't stop here

Natural resource extraction

*the cause of nature destruction
including 90% biodiversity loss*

1 Earth = 7 tonnes per capita per year by 2050

Trillion tonnes cumulative since 1900 (IRP)

10
9
8
7
6
5
4
3
2
1
0



0.4 Earth
1972
v



1 E
2005
v

1.5 E
2022
v

2 E
2035
v

2.5 E
2045
v

3 E
2055
v

Fossil fuels

Minerals

Metals

Biomass

1980

2000

2020

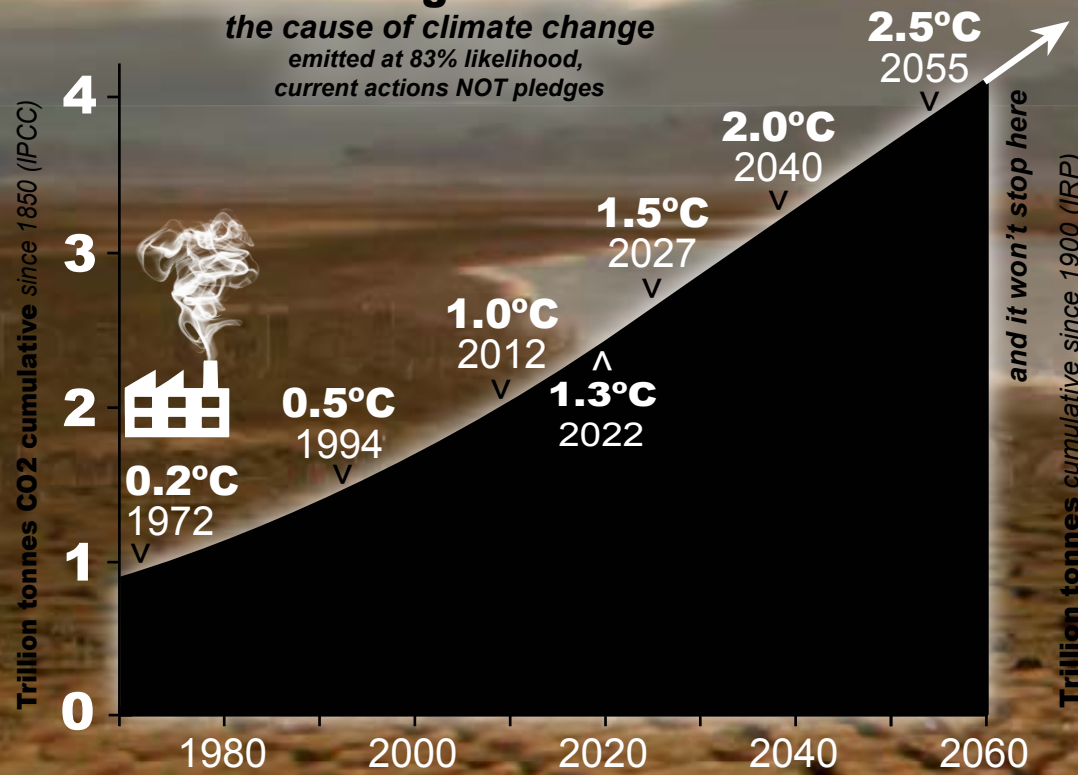
2040

2060

and it won't stop here

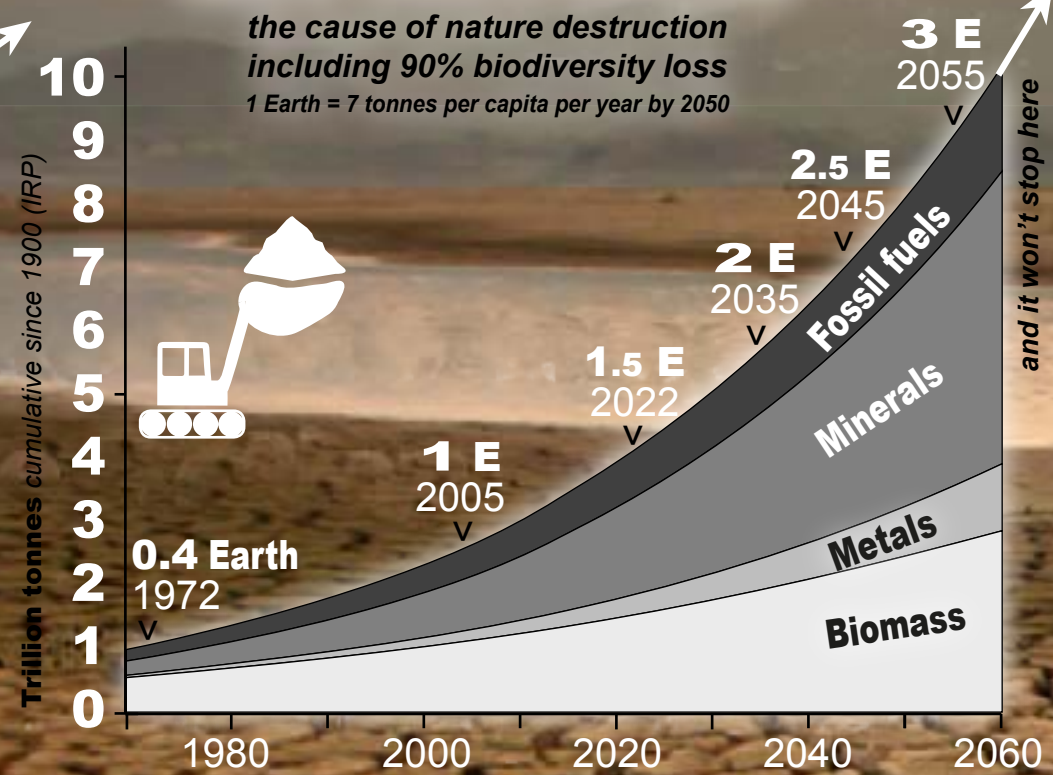
Greenhouse gas emissions

*the cause of climate change
emitted at 83% likelihood,
current actions NOT pledges*



Natural resource extraction

*the cause of nature destruction
including 90% biodiversity loss
1 Earth = 7 tonnes per capita per year by 2050*



COLLAPSE

These are climate and consumption trends to massive global shortages of all essentials for life - food, water, energy, medicines, shelter, transport - social-economic collapse with potentially hundreds of millions dead, billions forced from lands rendered uninhabitable.

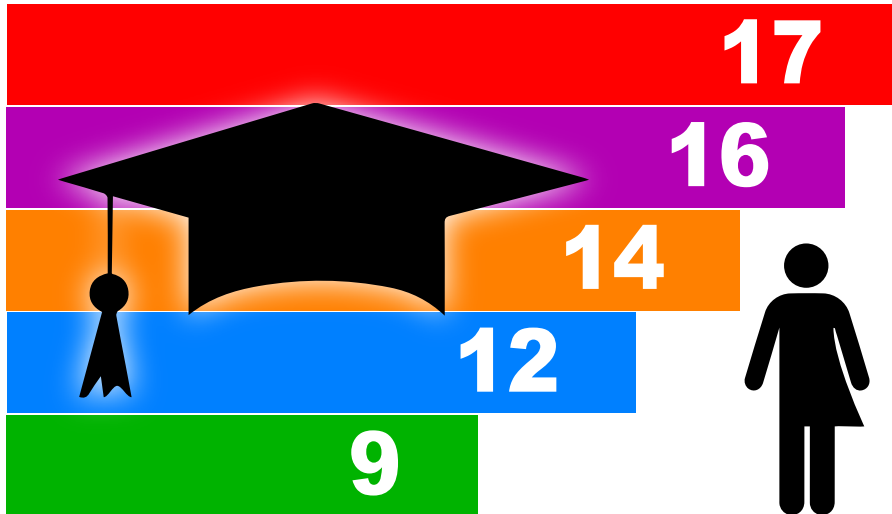


CAPABILITIES
UN development
levels 2022 (% pop)

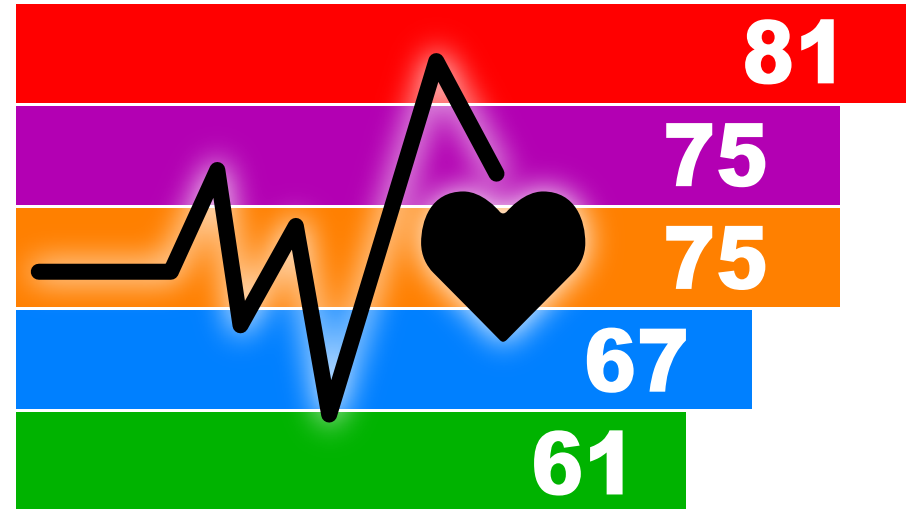
ULTRA HIGH (12%)
VERY HIGH (9%)
HIGH (35%)
MEDIUM (28%)
LOW (15%)



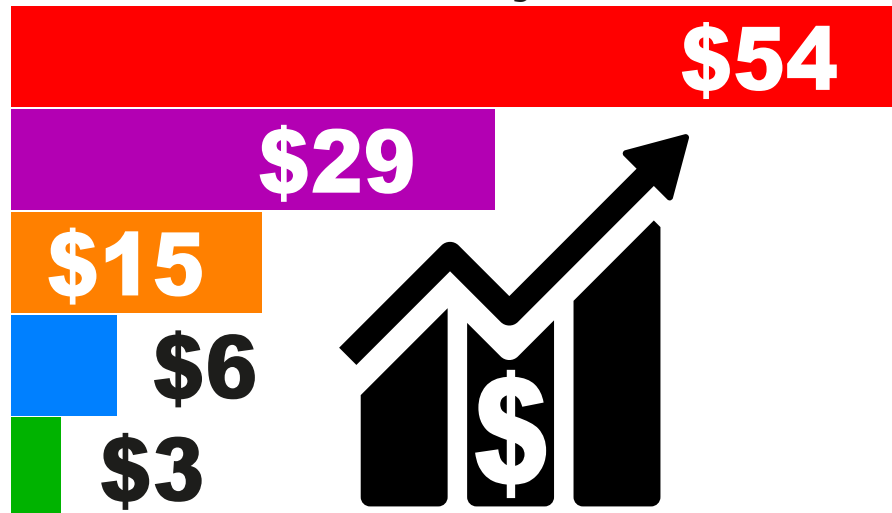
EDUCATION years



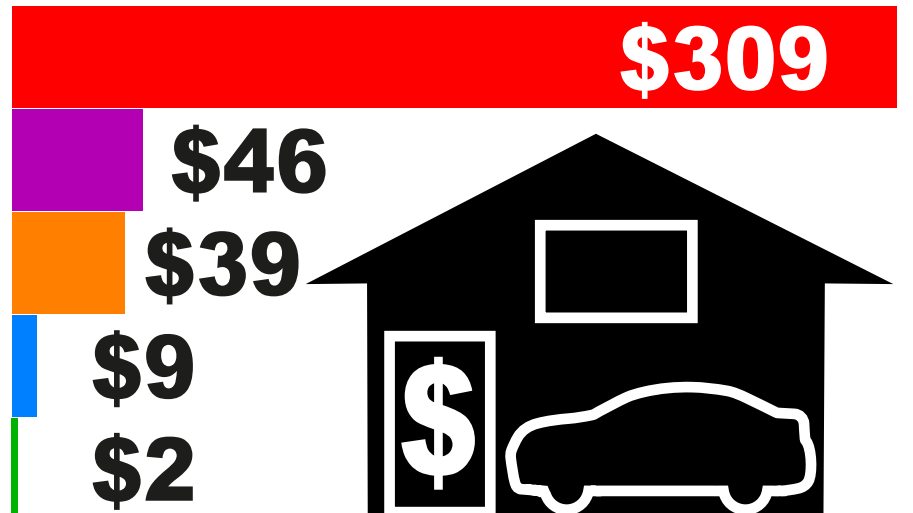
LIFE EXPECTANCY years



INCOME +000 / year



WEALTH +000



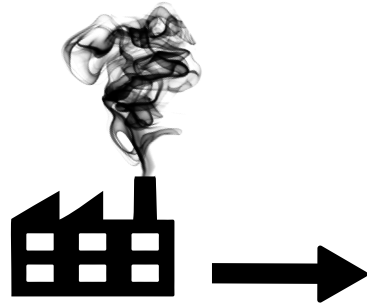
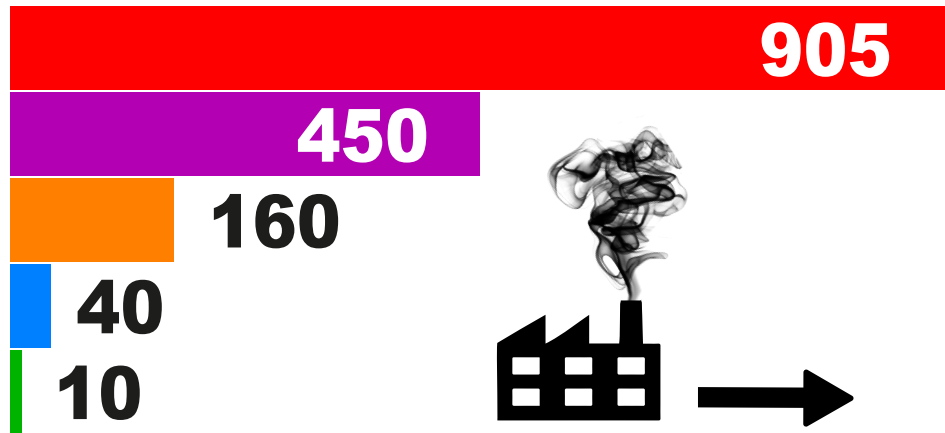


RESPONSIBILITIES
UN development
levels 2022 (% pop)

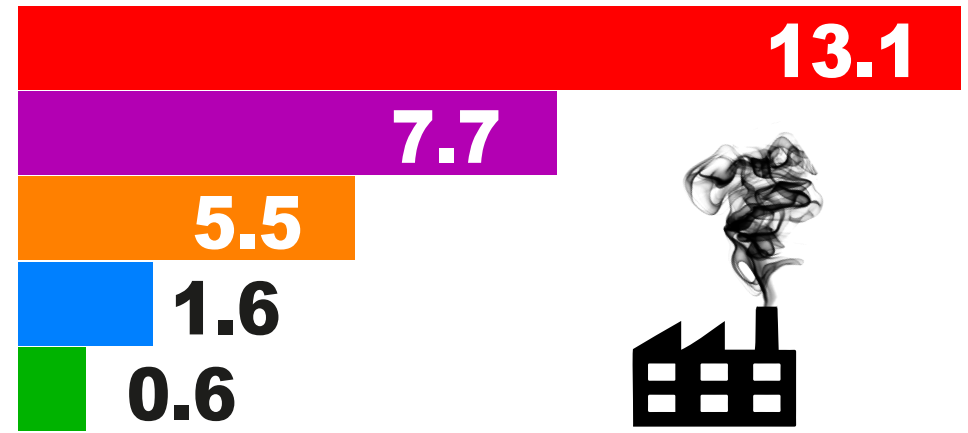
ULTRA HIGH (12%)
VERY HIGH (9%)
HIGH (35%)
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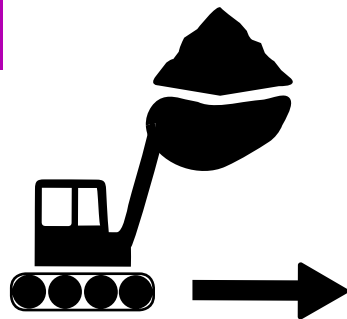
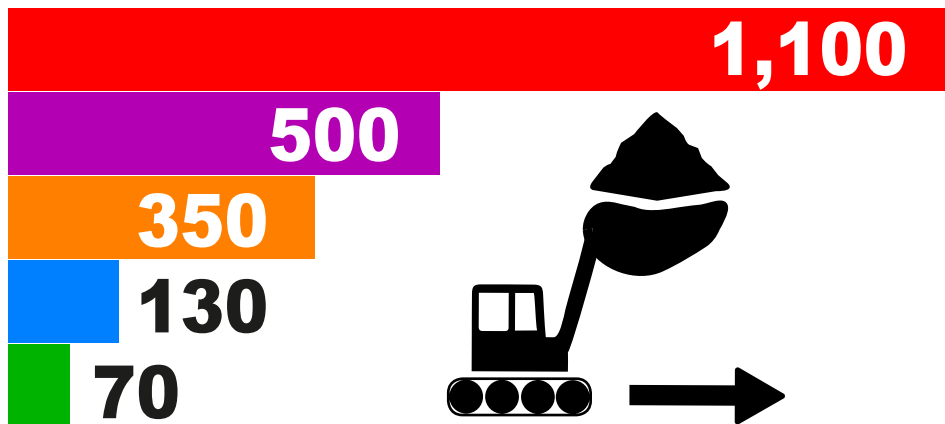
EMISSIONS tonnes CO2
cumulative



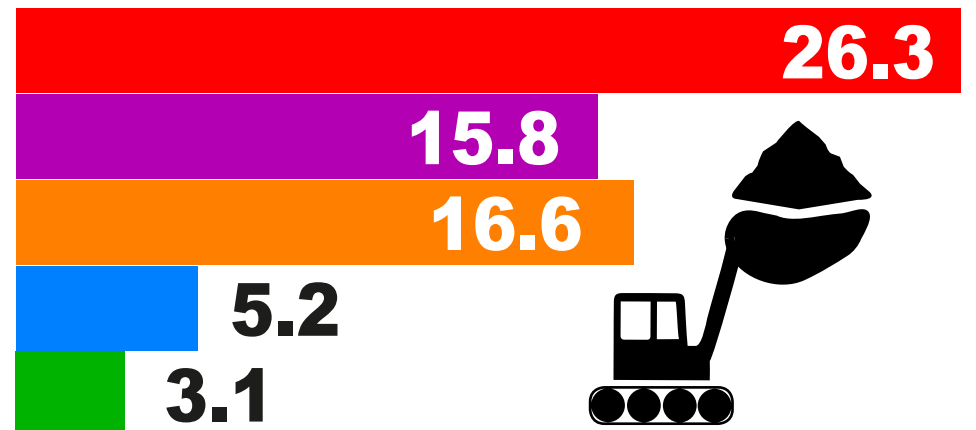
EMISSIONS tonnes CO2
consumption current / year



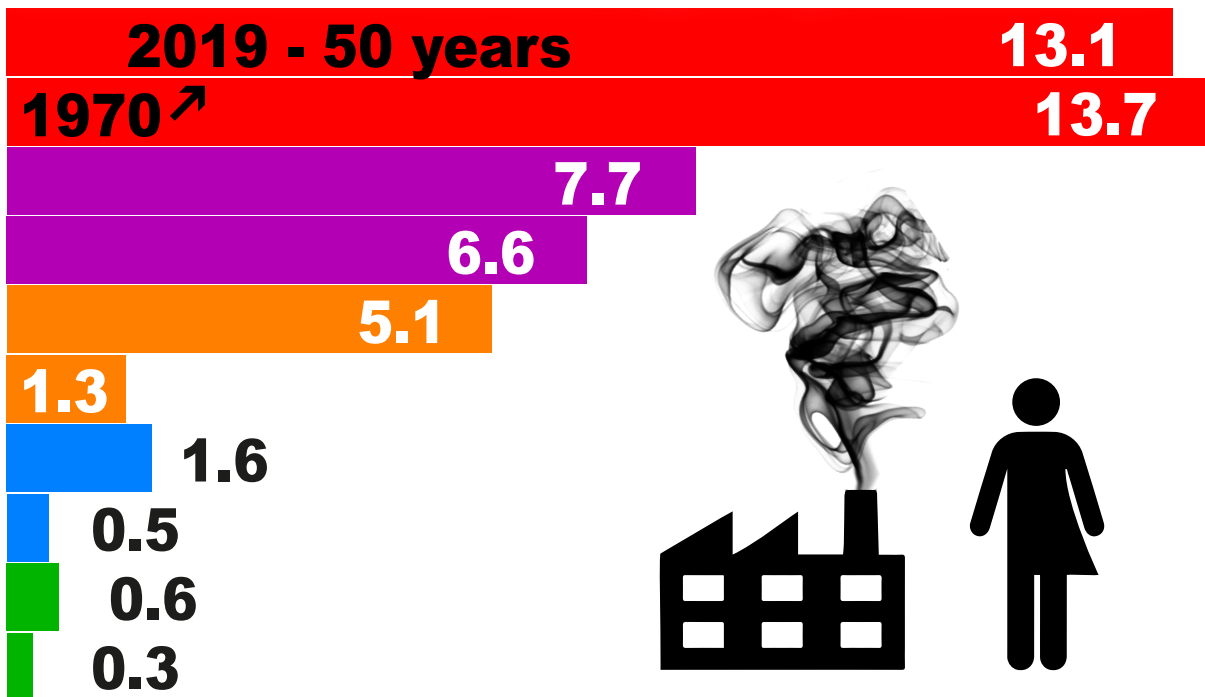
CONSUMPTION tonnes
cumulative



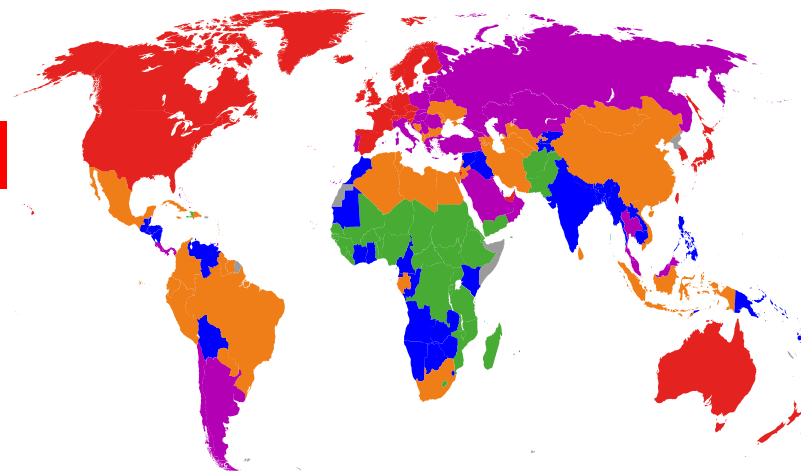
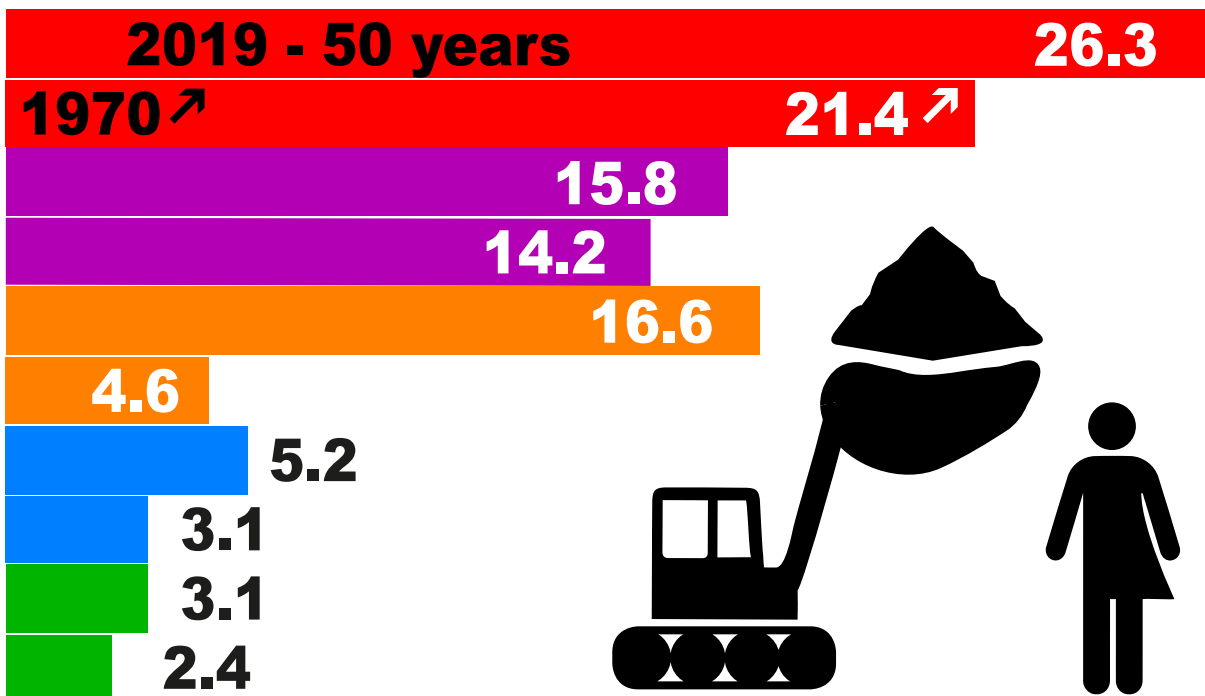
CONSUMPTION tonnes
current / year



EMISSIONS tonnes CO2 consumption / year 2019 & 1970



CONSUMPTION tonnes / year 2019 & 1970 per capita



RESPONSIBILITIES

- In the 50 years of science warnings (left) though they said they could, would and must Ultra High developed have **INCREASED** consumption 25% and **NOT MEANINGFULLY** reduced emissions, and are increasing both now.

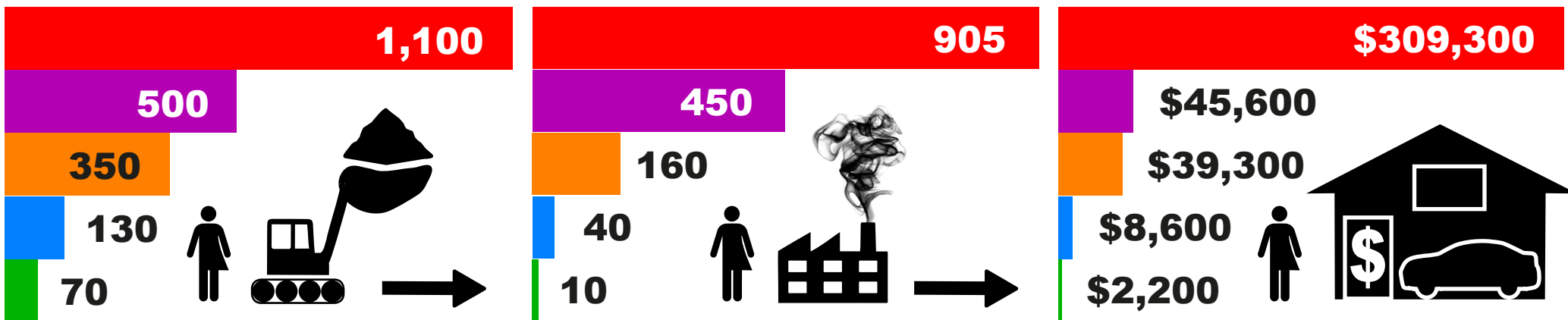
- UN Ultra High - the most educated, healthy and wealthy - set the standards; 12% of humanity have 64% of wealth and cause 50% of emissions and 37% of consumption cumulatively.

RESPONSIBILITIES

CONSUMPTION tonnes cumulative

EMISSIONS tonnes CO2 cumulative

WEALTH \$ cumulative



RESPONSIBILITIES CUMULATIVE

	Person	House	Factory	Excavator
ULTRA HIGH	12%	64%	50%	37%
VERY HIGH	9%	7%	18%	12%
HIGH	35%	33%	25%	34%
MEDIUM	28%	4%	5%	10%
LOW	15%	0.5%	1%	3%



- Ultra High developed (red) per capita cumulatively consume 1,100 tonnes of natural resources and emit 905 tonnes CO2 to realize their current \$309,300 wealth, 142 times greater than Low developed (green).
- To attain desired Ultra High living standards, 169 less developed nations, 88% of global population are rapidly increasing their consumption and emissions toward the standard of Ultra High - these are trends to imminent global social-economic collapse.

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



**At every level of development Govern-
ments follow the Ultra High lead:
giving the People what they think they
want - cheap energy and cheap materi-
als now, resulting in evermore
emissions and consumption -
quietly allowing humanity to slide on to
oblivion, with relentlessly accelerating
environmental degradation trends to
social-economic collapse.**



Clean up the mess you make !



Responsibility



197 nation's actions by "contribution to global environmental degradation".

CO2 1,144 t 1,278 t 670 t 179 t 41 t 4 t



**ULTRA HIGH MESS MAKERS
GERMANY US EU**

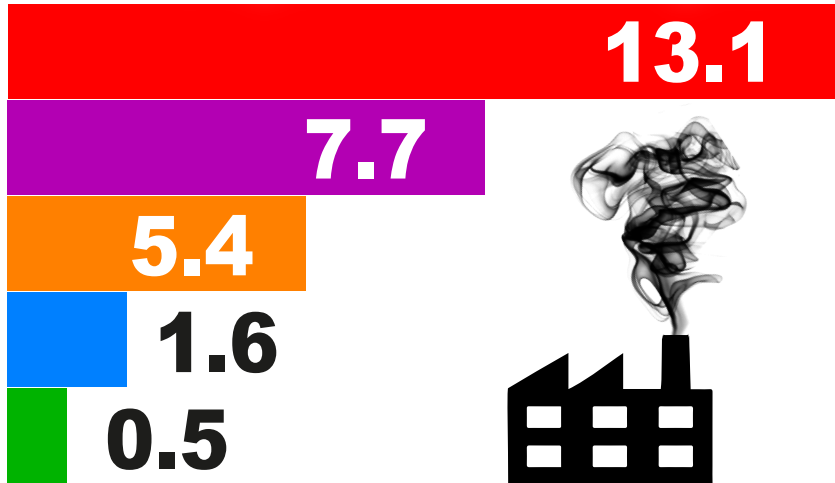
**HIGH
CHINA**

**MEDIUM
INDIA**

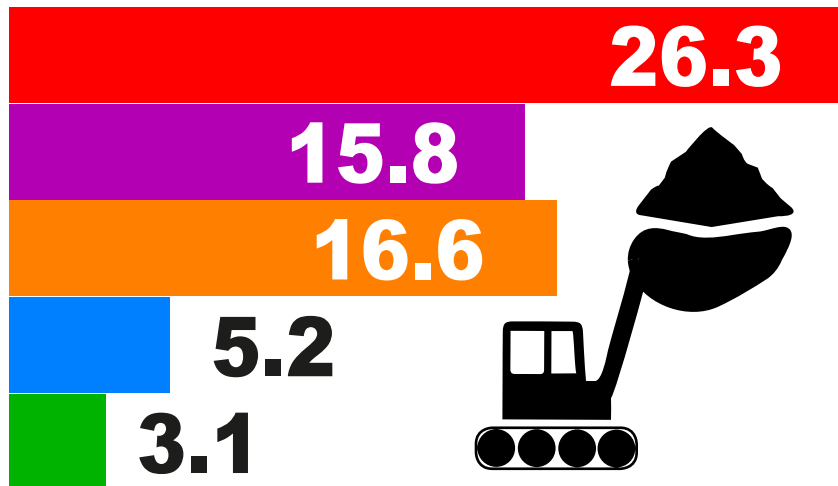
**LOW
TANZANIA**

RESPONSIBLE actions

EMISSIONS tonnes CO2
consumption current / year



CONSUMPTION tonnes
current / year



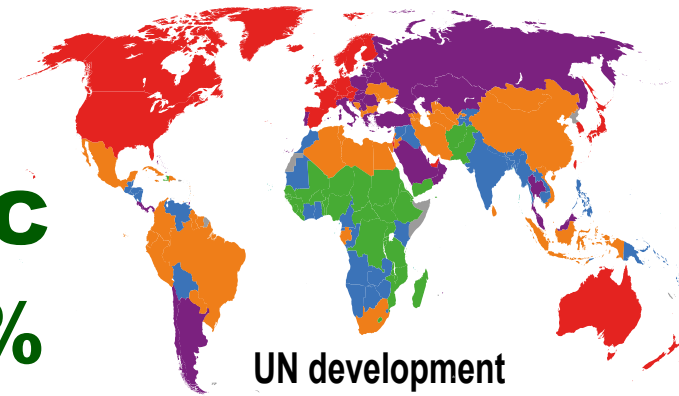
Action NOW
per year for

2°C 1.5°C

-15% -78%
-9% -37%
-6% -23%
-1% -5%
+ 1% -1%

Action NOW
per year for
1 EARTH

-4%
-3.5%
-3%
+ 2%
+ 4%

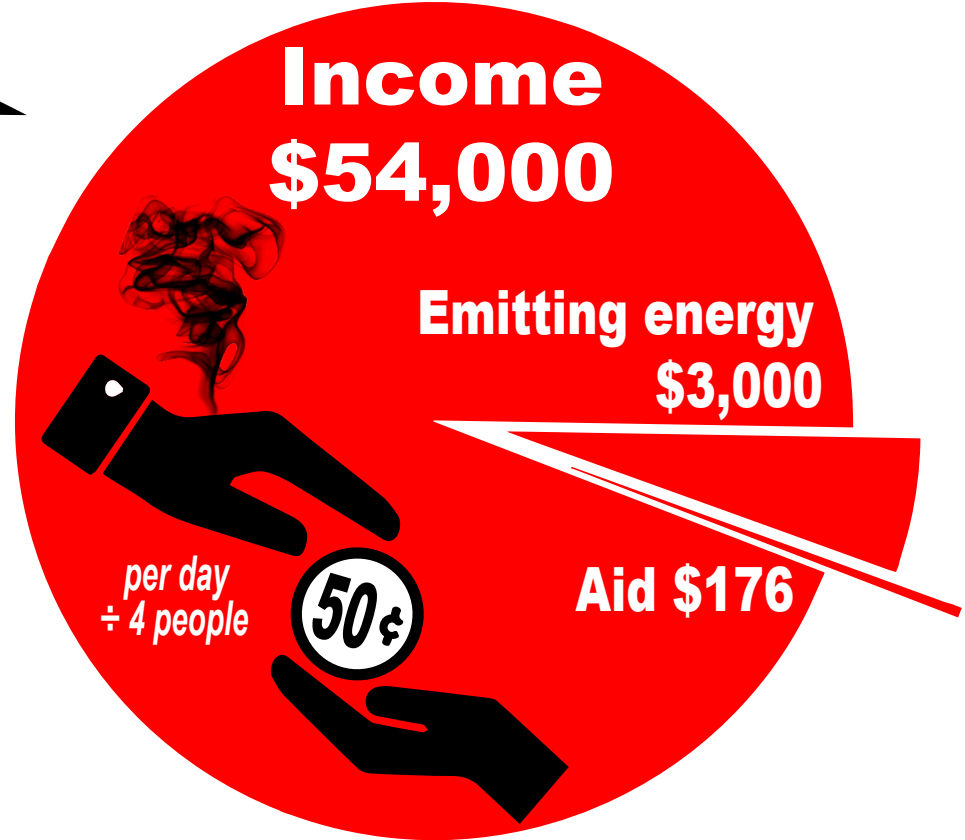
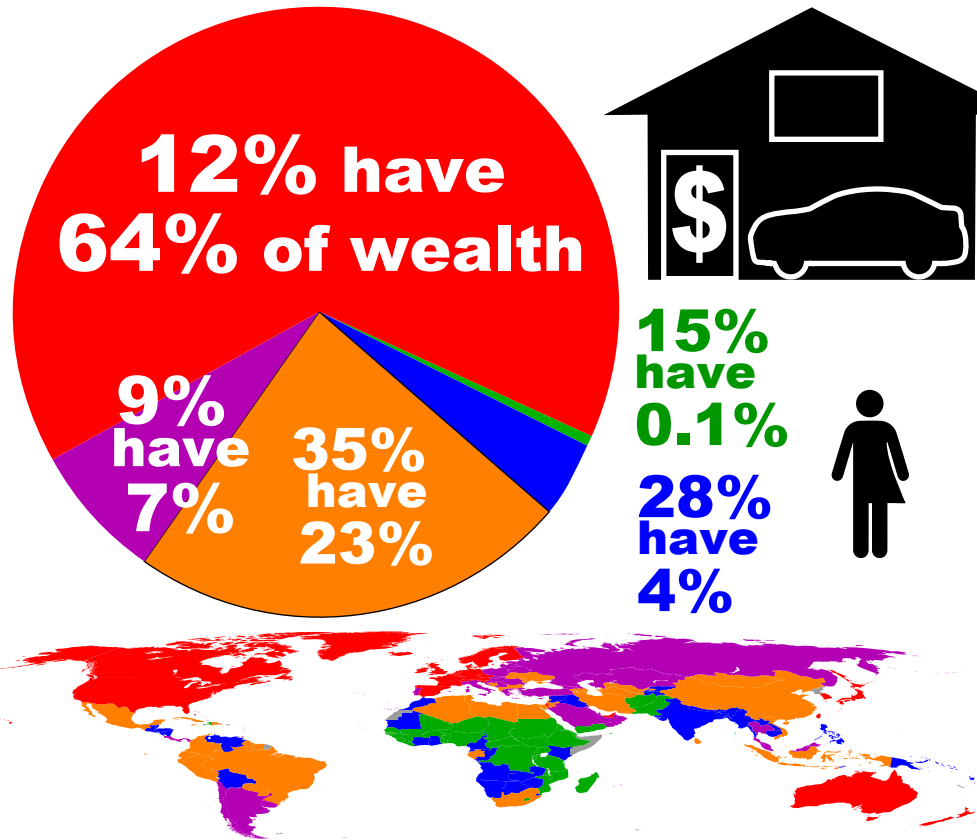


UN agreement is that action is by (current) responsibility for “contribution to environmental degradation” - below are reductions / increases to be on UN IRP and IPCC LIMITS:

- IPCC limit (best 83% likelihood) for 1.5°C / 2°C is 29 / 96 tonnes CO2 per capita 2021 onward.
- IRP limit for sustainable natural resource extraction is 7 tonnes per year per capita by 2050.



African lands rendered uninhabitable, Pakistan one-third underwater -



COMPENSATION for climate change and natural resource consumption.

UN Ultra High developed nations (*red in map*), **12%** of humanity caused **50%** of cumulative CO2 emissions, **37%** of natural resource consumption and have an extraordinary **64%** of global wealth.

How much compensation is made?

Ultra High nations' average annual income is **\$54,000** per person, of this they spend about **\$3,000** to directly purchase and benefit from energy causing climate change, - and give just **\$176** in total foreign aid, **0.3% of income**.

Entropy $\Delta S = (\Delta U + p\Delta V) / T \geq \Delta Q / T$



open energy

Closed Mass



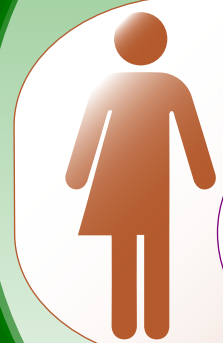
- Product reduction is painless, happiness is first humans, activities and nature NOT products.
- ▶ 4. Reduce human population - starting with ultra high consumers / emitters.

EARTH is a closed mass system, LAWS are required:

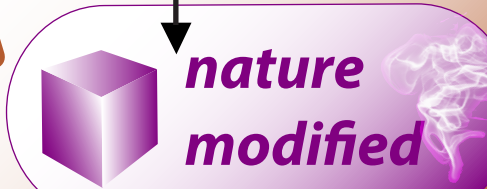
- ▶ 1. Change from quantity to quality by law.
- ▶ 2. Extract / consume the fewest possible natural resources by law.
- ▶ 3. Make only the very best, lasting, shared, repairable, cyclical products by law.

energy | solar

Closed Mass



nature organized

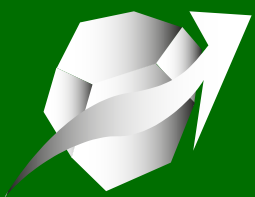


nature modified

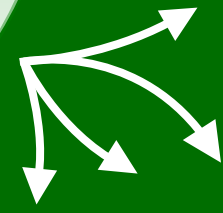
nature degraded



energy | low-grade



mass energy



time space

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:

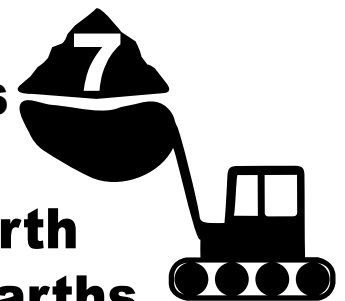
Cause of climate change:



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 - action by
RESPONSIBILITY now



OPEN DATA

83% likelihood

CO2 EMITTED TONNES since 1850

UN TREATY 1.5°C - TONNE LIMIT zero in 4 years



NATURAL RESOURCE CONSUMPTION TONNES H. sapiens

UN TREATY NATURE HARMONY - TONNE LIMIT 50% over

WE CAN DO IT

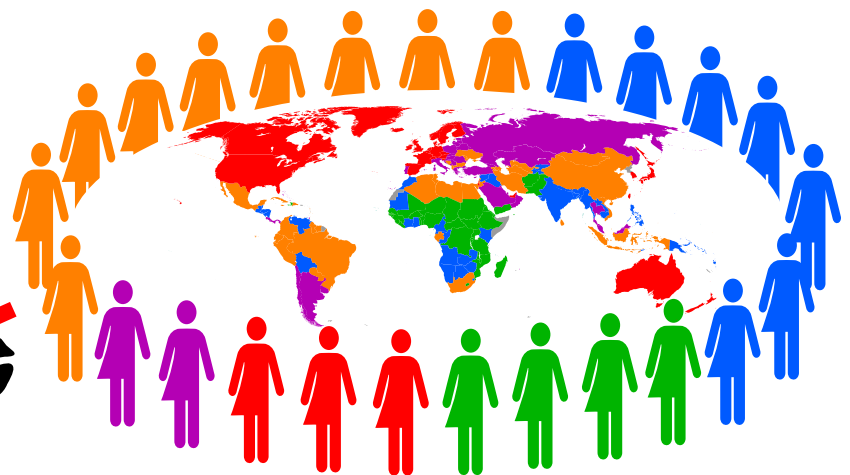
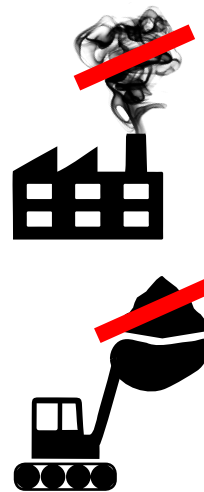


Your family photo here



THE FUTURE SECURED by Grandma, Grandpa, Mom, Dad ACTION NOW

The science is there, costs are doable, demand adequate responsible action from your Government now to realize UN Climate & Biodiversity 1.5°C / 2°C / 1 Earth consumption objectives -



Existential Stocktake.



- For 1.5°C: reduce CO2 emissions 50% by 2030s, net-zero by 2050s,
- For 2°C: 50% by 2040s, net-zero 2070s,
- For harmony with nature: protect 30% of land and water by 2030, NO consumption reduction.

UN Governments



Existential disinformation: deliberately false information for gain (popularity) causing harm (social-economic collapse).



SAVE OUR FUTURE! FRANCE CUT EMISSIONS & CONSUMPTION NOW:
 for 1.5°C **-27%**, 2°C **-7%** current **+2%**
 for 1 Earth **-4%** current **0%**

THE RIGHT TO KNOW - all 197 nations Existential Stocktake



All climate and consumption actions must add up to adequate, responsible national limits.



SAVE OUR FUTURE! NEW ZEALAND CUT EMISSIONS & CONSUMPTION PER YEAR NOW:
 for 1.5°C **-39%**, 2°C **-9%** trend **+1%**
 for 1 Earth **-5%** trend **+2%**
THE RIGHT TO KNOW - all 197 nations Existential Stocktake



SECURE THE FUTURE - UK CUT EMISSIONS & CONSUMPTION NOW:
 for 1.5°C **-34%**, 2°C **-8%** current **+1%**
 for 1 Earth **-4%** current **0%**
THE RIGHT TO KNOW - all 197 nations Existential Stocktake

