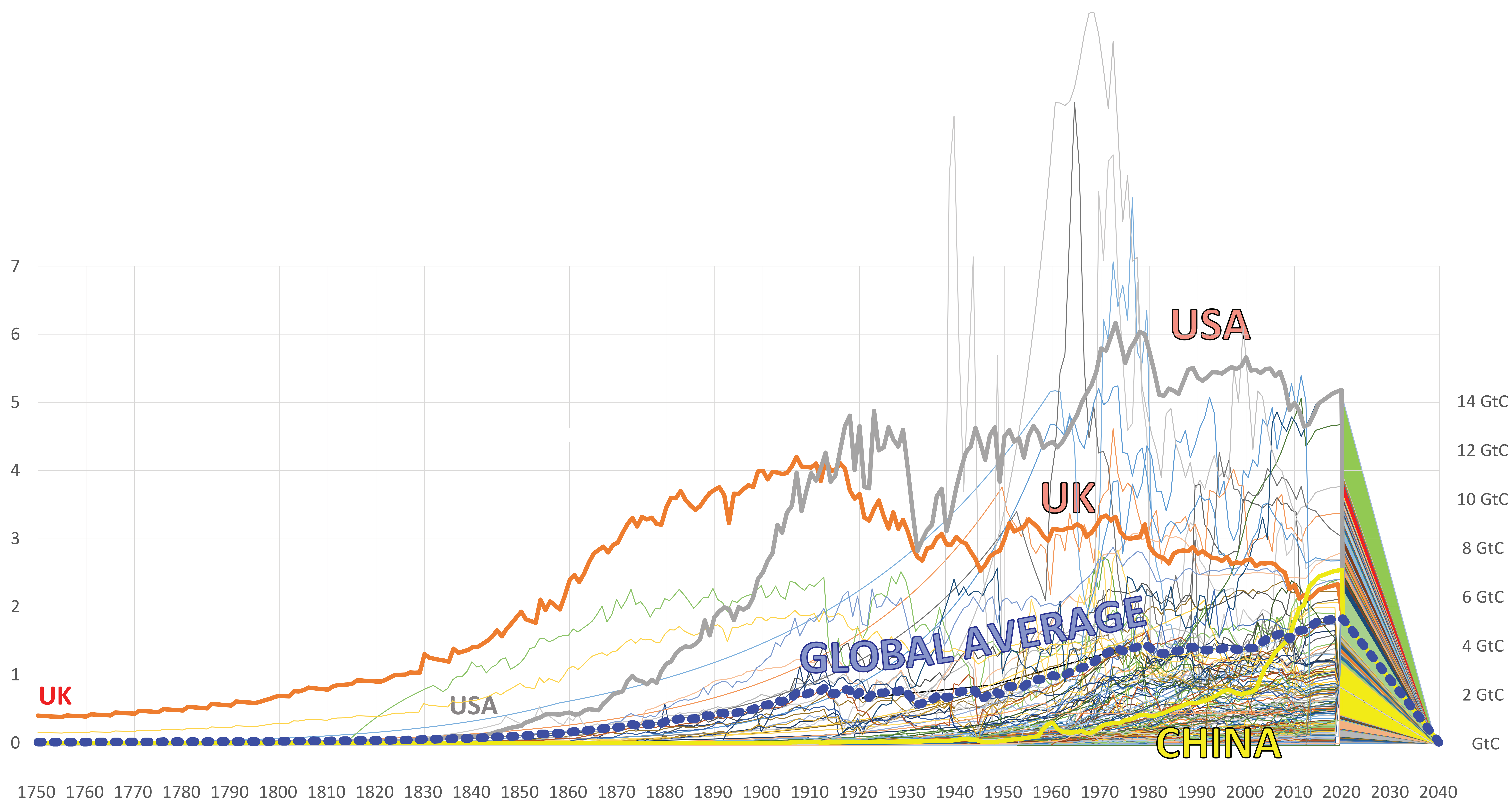


The Historical Record of CO₂ emissions (using CDIAC Data)

PER CAPITA EMISSIONS 1750 - 2020 & Future Entitlements reaching zero by 2040

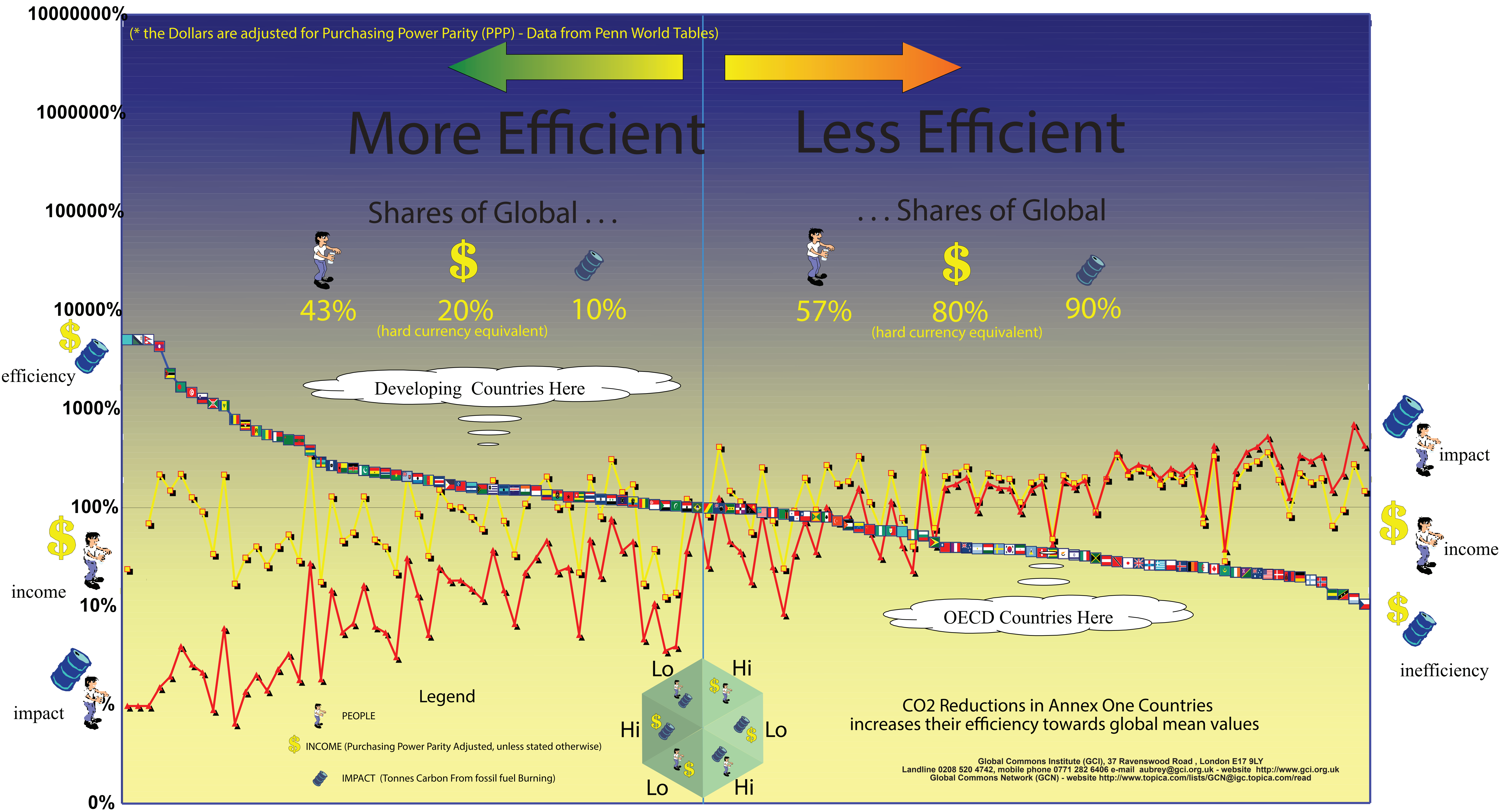
<http://www.gci.org.uk/movies/ADAM.mp4>



An international who's-who of 'efficiency' in 1990

http://www.gci.org.uk/CER_1990.html

\$s*/tonne carbon EFFICIENCY RANKINGS for 1990



This graphic compares the dollar/tonne "EFFICIENCY" for 120 countries in 1990. Dollars (INCOME) are adjusted to "Purchasing Power Parity" (PPP). Tonnes (IMPACT) are of carbon from CO2 from fossil fuel burning. INCOME per capita is shown on the yellow line. IMPACT per capita is shown on the red line. EFFICIENCY is the ratio between INCOME and IMPACT and international rankings are shown in the line of flags. The trend in the graphic shows that poor countries are much more efficient than rich countries.

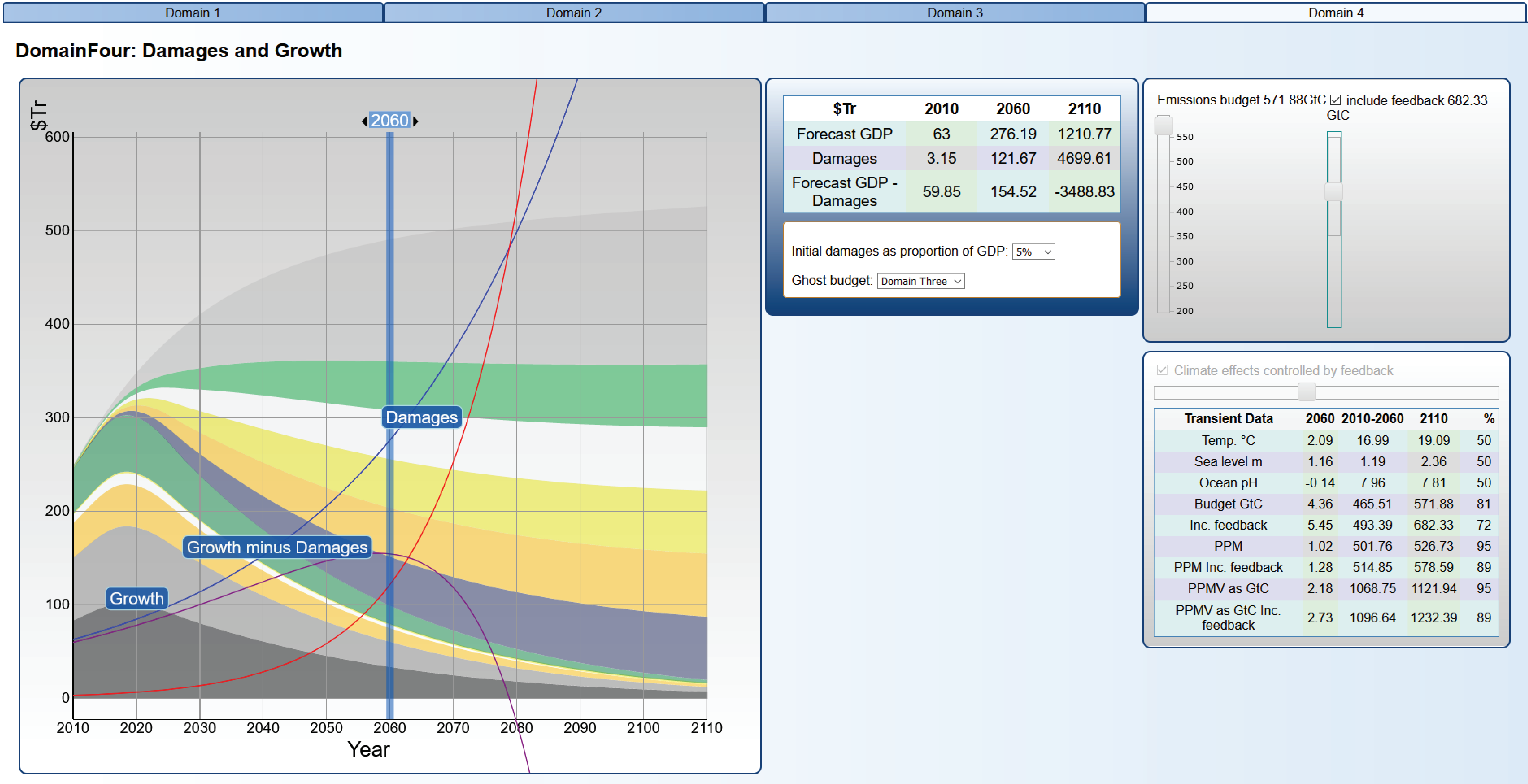
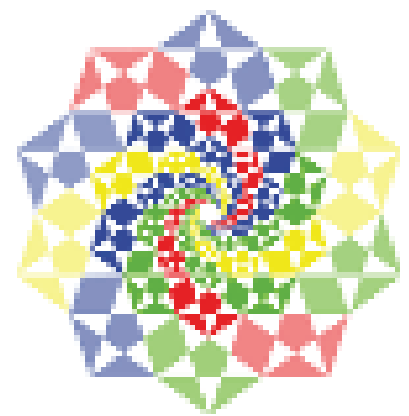
The rate of insured & uninsured losses from climate damages is rising at least twice the increasingly un-economic-growth rate of 3%/year

http://www.gci.org.uk/CBAT_AUBREY/CBAT/index.html#domain-4



CARBON BUDGET ACCOUNTING TOOL

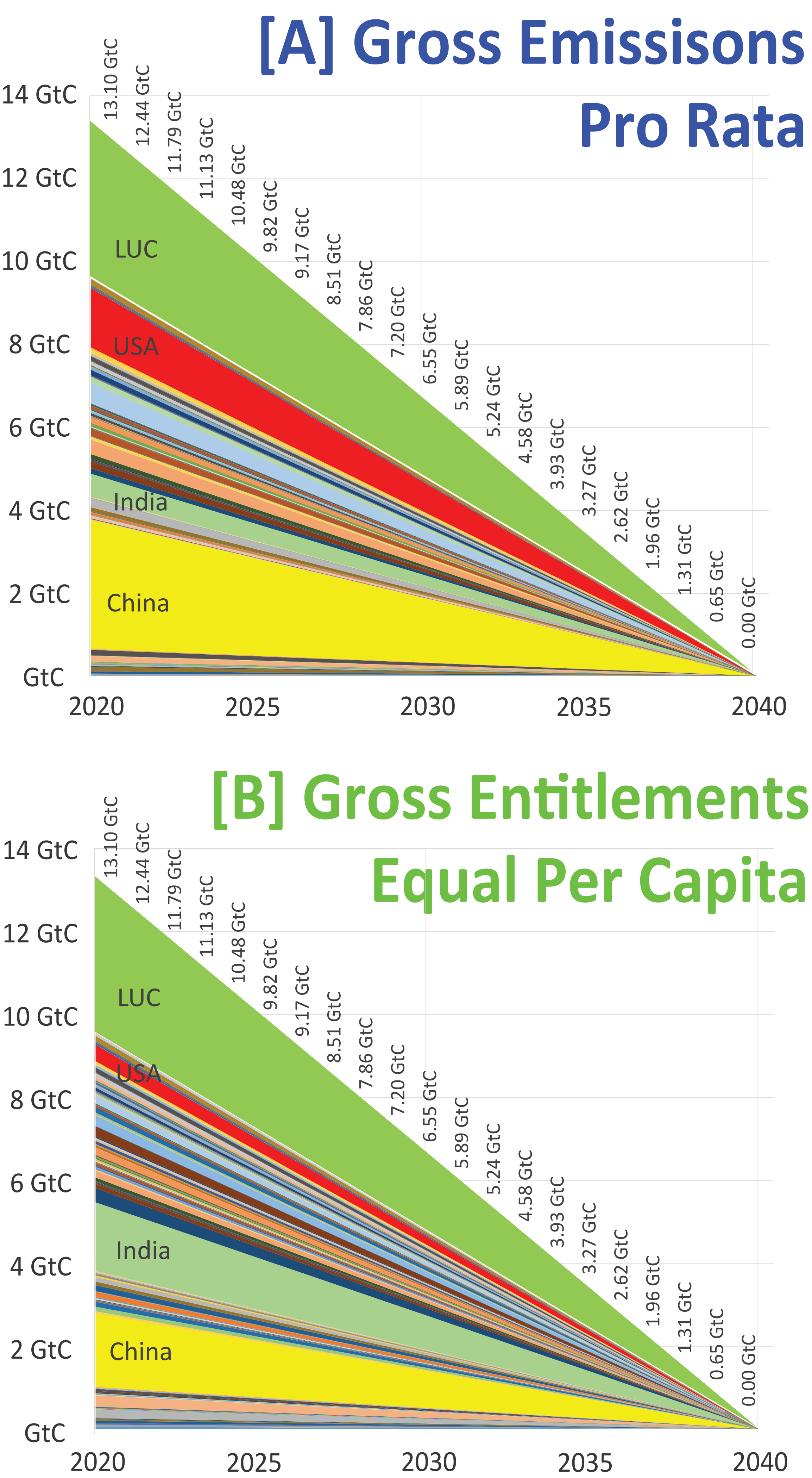
[Explanation](#)



Reconciling C&C & the ‘Rajan’ Carbon Tax & Dividend Proposal.

An animation of this will appear in due course in the style of the related slide-show here <http://www.gci.org.uk/F&D.html>

Example. A Global CO₂ Emissions Budget between 2020 & zero in 2040 weighs 137 GtC when the collective descent rate is pro-rata & linear. It is the same integral of 137 Gt C when entitlements are pre-distributed equal per capita (immediate convergence) & the collective descent-rate is linear. A global carbon tax on parties above the global per capita average raises revenue to be disbursed to parties below the average. This is deterministically goal-focused, inclusive, equitable & sufficient and the most efficient way of achieving UNFCCC-Compliance.



ABSOLUTE FRAMEWORK

- 1) Rules
 - a) Inclusive (global full-term).
 - b) Self-referential (full international carbon closure).
 - c) All play by the same rules.
- 2) References
 - a) Full-Term Carbon Budget (FTCB)
 - b) 2020 to absolute zero globally in 20 years
 - c) Fixed budget integral arising 137.5 Gt C
 - d) Price slope (rising % tax-rate) for years of FTCB
 - e) Revenue raised ($e=a*d$)
 - f) Global Per Capita Emissions Average (GPCEA) population base-year (2020)
 - g) Global Fund (GF) [a] receives & [b] disburses revenue raised
 - h) To those above & below the GPCA

GUESSWORK Relative to ABSOLUTE FRAMEWORK

We counted our way into this global crisis in a random manner. To get out of it we have collectively to solve the problem faster than we (in fact only some of us) caused it. Denial is now effectively dead. This means & incontestably requires an integrated absolute framework of account to count our way out of it now. In a phrase, we have to *do enough soon enough collectively*.

A race to carbon zero to *do more than enough sooner than needed* could well occur as result of this and the zeitgeist of increasing danger. All well and good, this may well be the strongest reason why we positively need (rather than need to abandon) an absolute framework within which to integrate and account for such initiatives. Without it they are uncountable and also unaccountable

