

# Economic Activity and Planetary Limits: how can they be reconciled?

Alessio Terzi



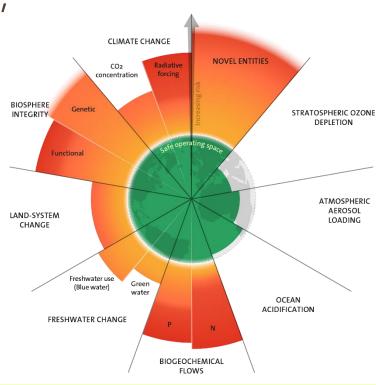


The views expressed here are those of the author alone.

#### The initial assumptions

We agree on the fact that:

- 1. Climate change is anthropogenic and due to GHG emissions
- 2. If left unattended, climate change will imply an increasing probability of extreme weather events (storms, droughts, floods, wildfires, ..), rising sea level, etc.
- 3. We value human lives
- In order to avoid the worst, we need to decarbonise our economies completely between now and 2050
- Climate change is not the only environmental challenge (biodiversity, nitrogen cycle, plastic, etc)



#### My overarching position

- Avoiding a climate/environmental disaster goes through a restructuring of the whole economy and a switch to green technology
- Capitalism can be a forceful ally, by fostering the development and deployment of green tech
- However, this will not happen on its own, and surely not at the speed required (e.g. climate neutral by 2050)
- →Actions required by governments (but also pioneering businesses and engaged citizens)

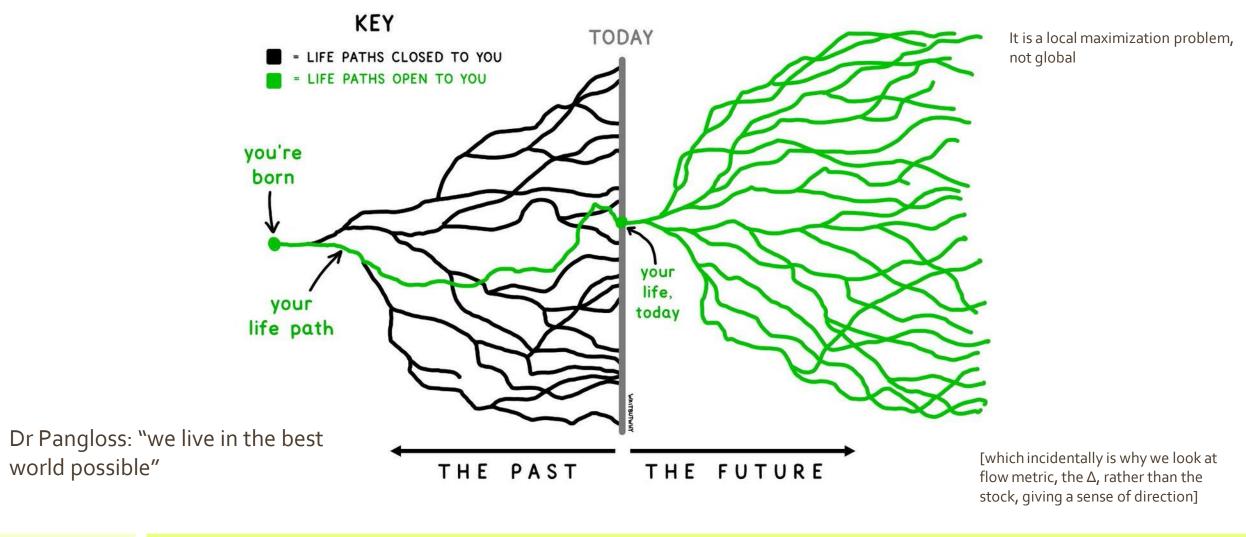
#### 'Whole-of-nation' approach

#### On Green Growth

- Economic growth is about the creation of value, making desired things possible for as many as possible
- If value is attached to nature, then people will be ready to pay something for that
- Our drive towards climate neutrality, reverse biodiversity loss, switch to biodegradable products, ... will create value
- Companies that lead this drive, will make profits, and that ain't a bad thing
- Those that don't will rapidly be seen as lower quality, antiquated, eventually facing decline
- → In equilibrium, a complete economic restructuring

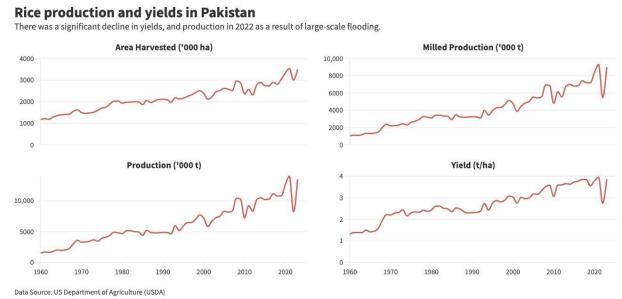


#### Am I the Dr Pangloss of green growth?



#### One word on the future ahead...



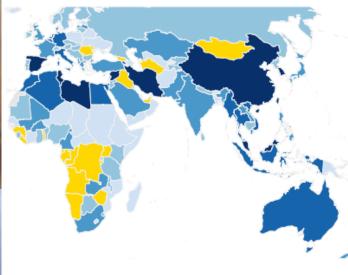


→ You can focus on well-being and non-material rewards rather than GDP all you want, but as sea levels start rising, you'll need material stuff to protect your shores. A strong industrial economy will help in that

#### The baseline is not steady-state



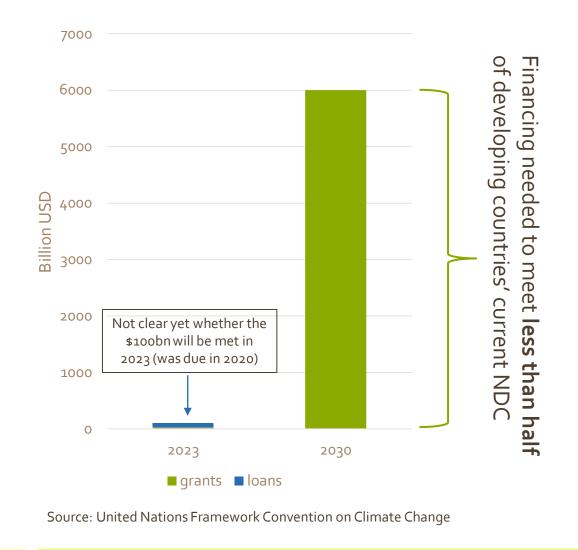
TFP (1961- today)



Carrillo, C.M. et al. Anthropogenic climate change has slowed wth. *Nat. Clim. Chang.* 11, 306—312 (2021)

→ Degrowth is at best a fair-weather construct, that is ill-suited with the climate-unstable world we are entering into

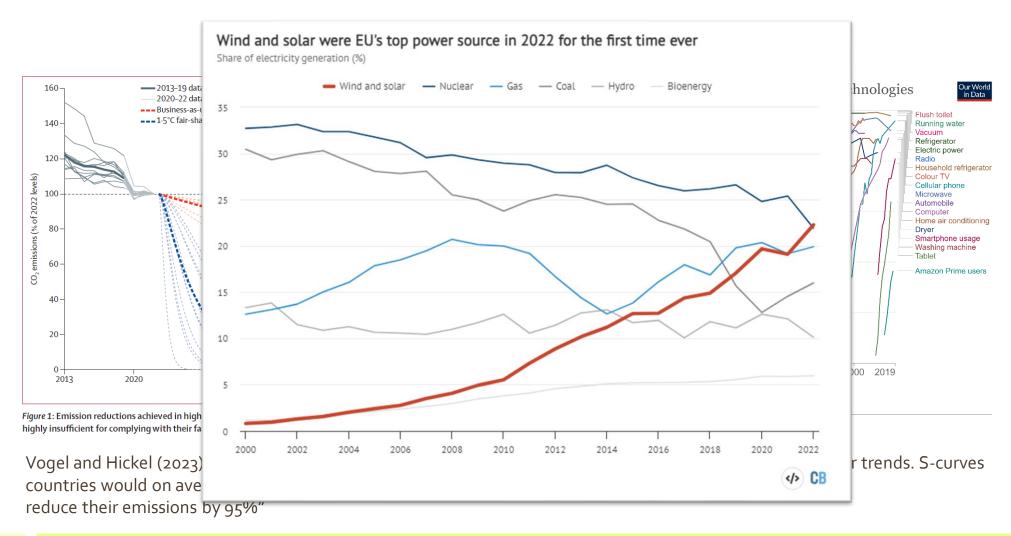
#### The international dimension



- Even if there are clear responsibilities, historical emissions, etc..
- The idea that high-income countries will transfer money on that scale and pay for the transition of others is delusional
- Especially as they will be facing their own increasing challenges with climate change mitigation/adaptation (e.g. Greece, Spain, Italy)

→ A lot of the degrowth literature focuses on what should happen, rather than what realistically can/will

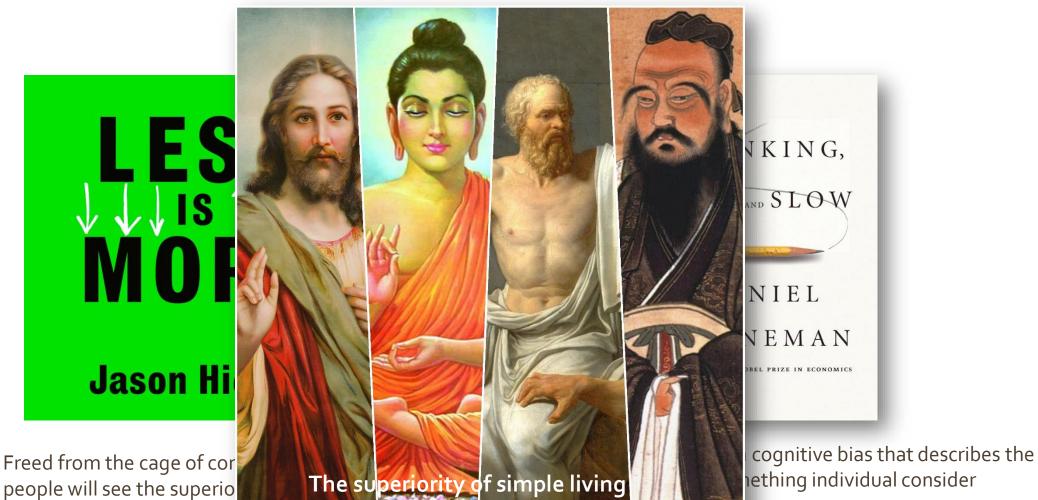
# Excessive reliance on technology?



## Fixing one problem will make the others worse?



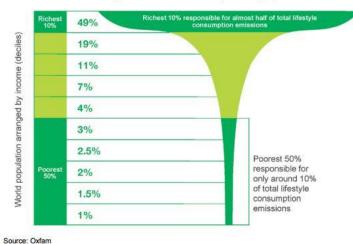
### If people embrace sobriety, wouldn't it be faster?



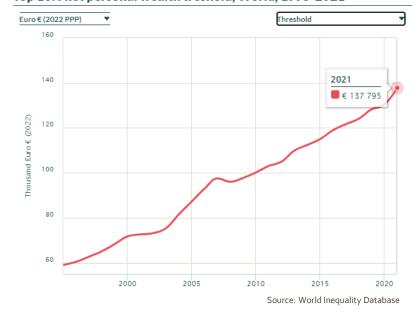
#### It's only the rich who need to be forced to be sober?

Figure 1: Global income deciles and associated lifestyle consumption emissions





Top 10% net personal wealth treshold, World, 1995-2021



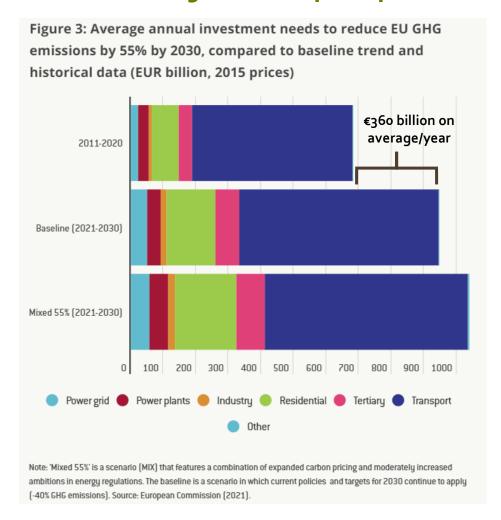
Apartments - most and least expensive municipalities in the Walloon Region:

	Most expensive municipalities	Median price		Least expensive municipalities	Median price
1	WATERLOO (23)	370,000	1	CHARLEROI (86)	110,000
2	BRAINE-L'ALLEUD (20)	278,001	2	LA LOUVIERE (41)	123,000
3	OTTIGNIES-LOUVAIN-LA-NEUVE (48)	271,250	3	SERAING (19)	135,000
4	WAVRE (32)	265,000	4	LIÈGE (224)	152,000
5	ARLON (31)	235,000	5	TOURNAI (30)	159,000
6	HUY (23)	228,000		MOUSCRON (17)	159,000
7	NIVELLES (36)	225,000	7	MONS (69)	170,000
8	HERSTAL (20)	203,750	8	VERVIERS (40)	185,000
9	TUBIZE (20)	203,500	9	NAMUR (98)	190,000
10	NAMUR (98)	190,000	10	TUBIZE (20)	203,500

The figure in brackets represents the number of transactions

Blanchard, Gollier, Tirole (2023): "Almost 90% of French citizens feel that the middle class should not have to pay anything to fight climate change"

#### But then just expropriate the billionaires?





# In parallel, growing needs of resources on multiple fronts







→ The pressure on existing resources is getting greater, not smaller

# Degrowth: a weapon of mass distraction

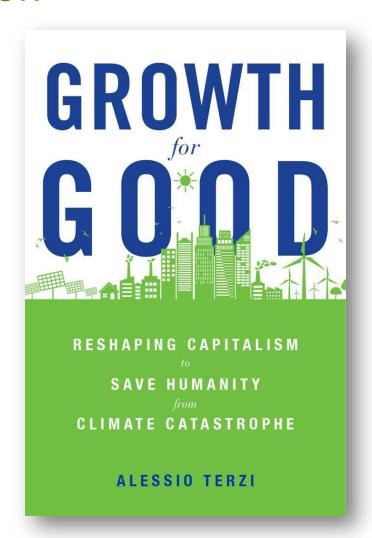


### Why I stopped worrying about degrowth...

- Irrespective of strong intellectual interest, politically the movement is in a dead alley: no theory of change
- 2. A take-all or lose strategy (no possible marginal improvement)
- 3. It is not incentive-compatible at international level (no Nash equilibrium)
- 4. It bets on human moral improvement, which has a long history of marginal success (e.g. superiority of simple living, "workers of the world unite")
- 5. Climate change and the broader sense of history pushes in the opposite direction

→ The extent to which it will be successful, i.e. changing at the margins individual preferences, is actually good

#### The book



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# Thank you!

For questions/comments:

Alessio.terzi@sciencespo.fr

Twitter: @terzibus

IG: @terzibus

www.alessioterzi.eu