

The biggest adventure of humanity

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LCANZ Summit
Auckland – March 30th 2023



Why do I care?

Agenda

- The burning Platform
- So What?
- Stories of opportunities
- You matter – It matters



The burning platform

**Why did
you not
tell us?**

The Rodney & Otamatea Times

WAITEMATA & KAIPARA GAZETTE.

PRICE—10s per annum in advance

WARKWORTH, WEDNESDAY, AUGUST 14, 1912.

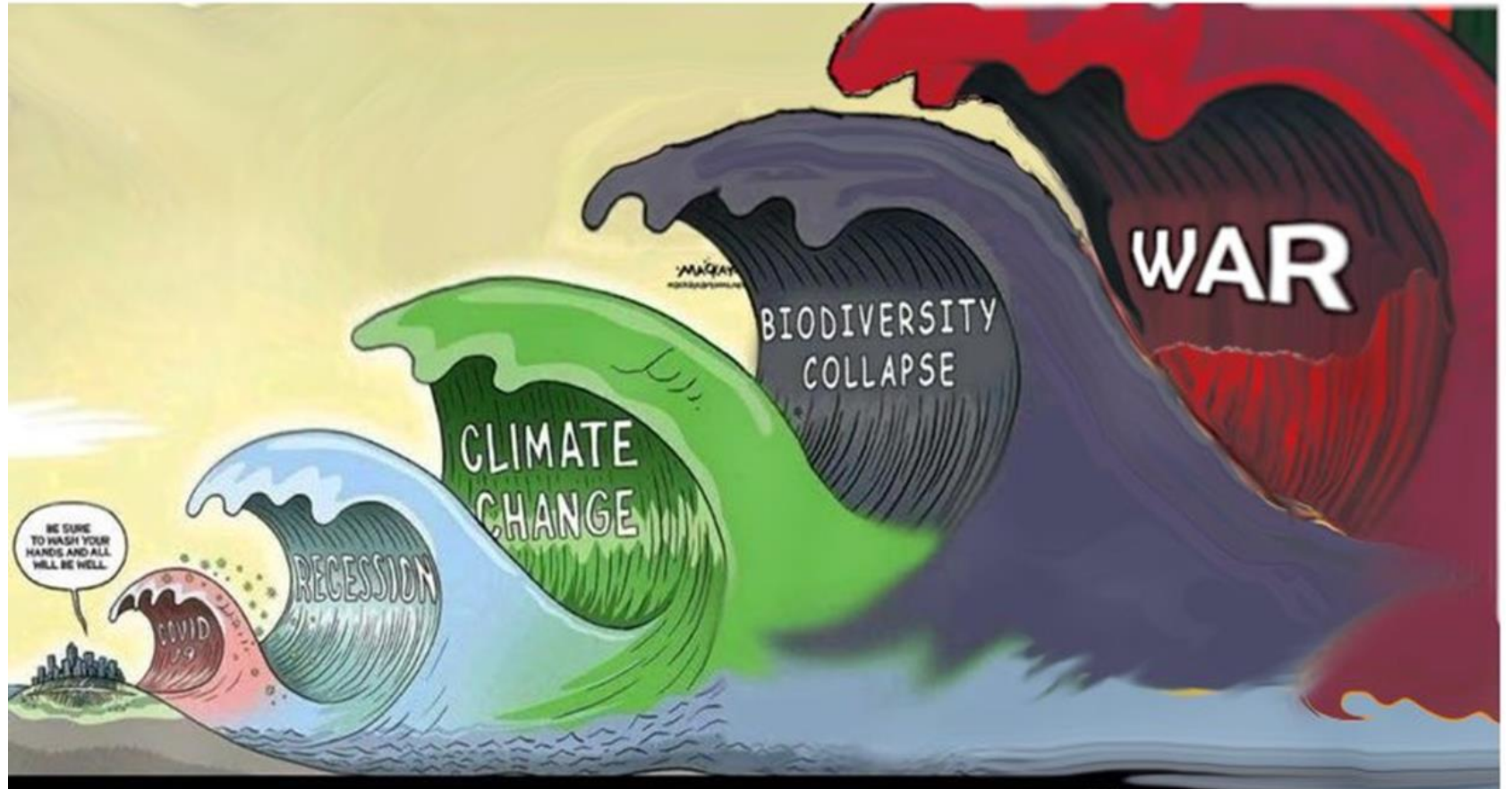
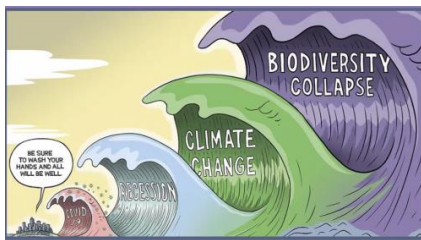
3d. per Copy.

Science Notes and News.

COAL CONSUMPTION AFFECT-
ING CLIMATE.

The furnaces of the world are now burning about 2,000,000,000 tons of coal a year. When this is burned, uniting with oxygen, it adds about 7,000,000,000 tons of carbon dioxide to the atmosphere yearly. This tends to make the air a more effective blanket for the earth and to raise its temperature. The effect may be considerable in a few centuries.

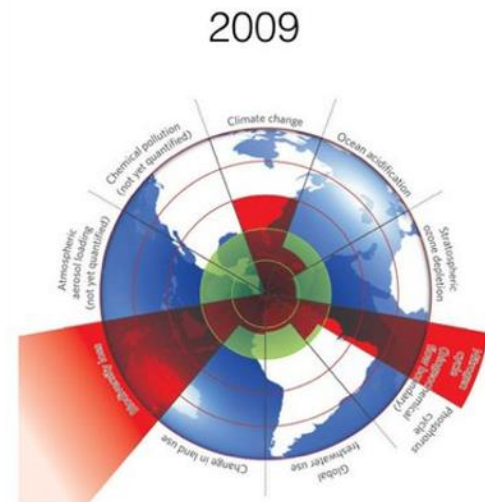
Wave after wave is hitting us...



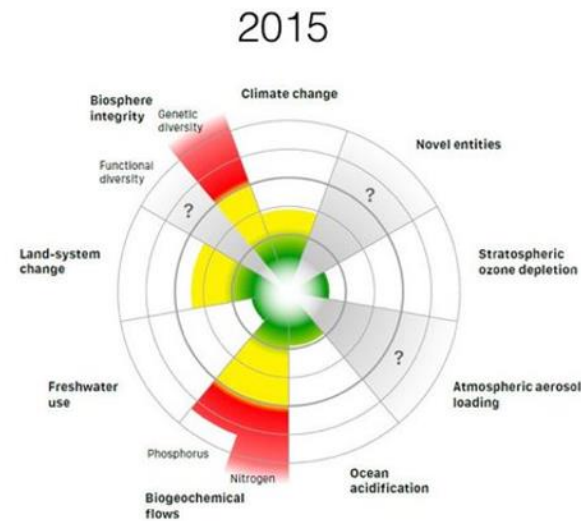
Major Challenges....



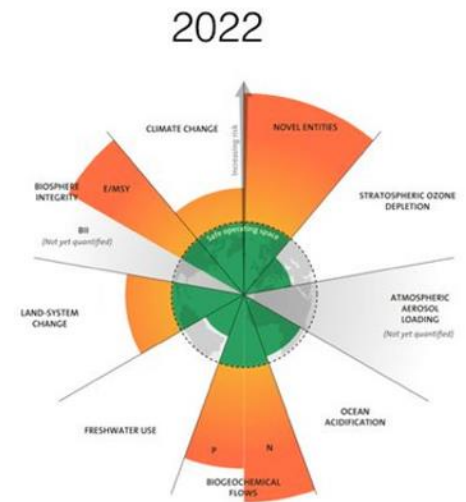
Living Beyond
Our Means



3 boundaries crossed



4 boundaries crossed

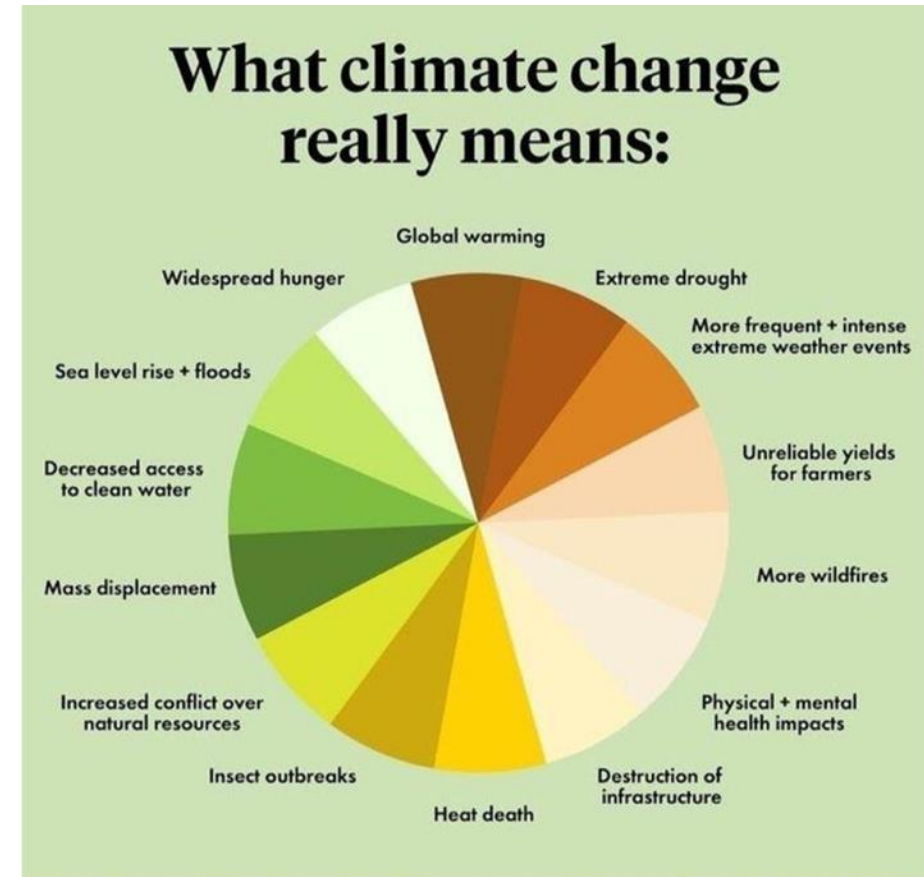


5 boundaries crossed

Planetary
Boundaries

Five takeaways from the recent IPCC report

- Climate change is hurting our health
- Some things will be lost forever
- We can adapt... up to a point
- The poorest will be the hardest hit
- Each 0.1 degree matters



So what?

we cannot solve
our PROBLEMS WITH
THE SAME THINKING
we used when
we created them

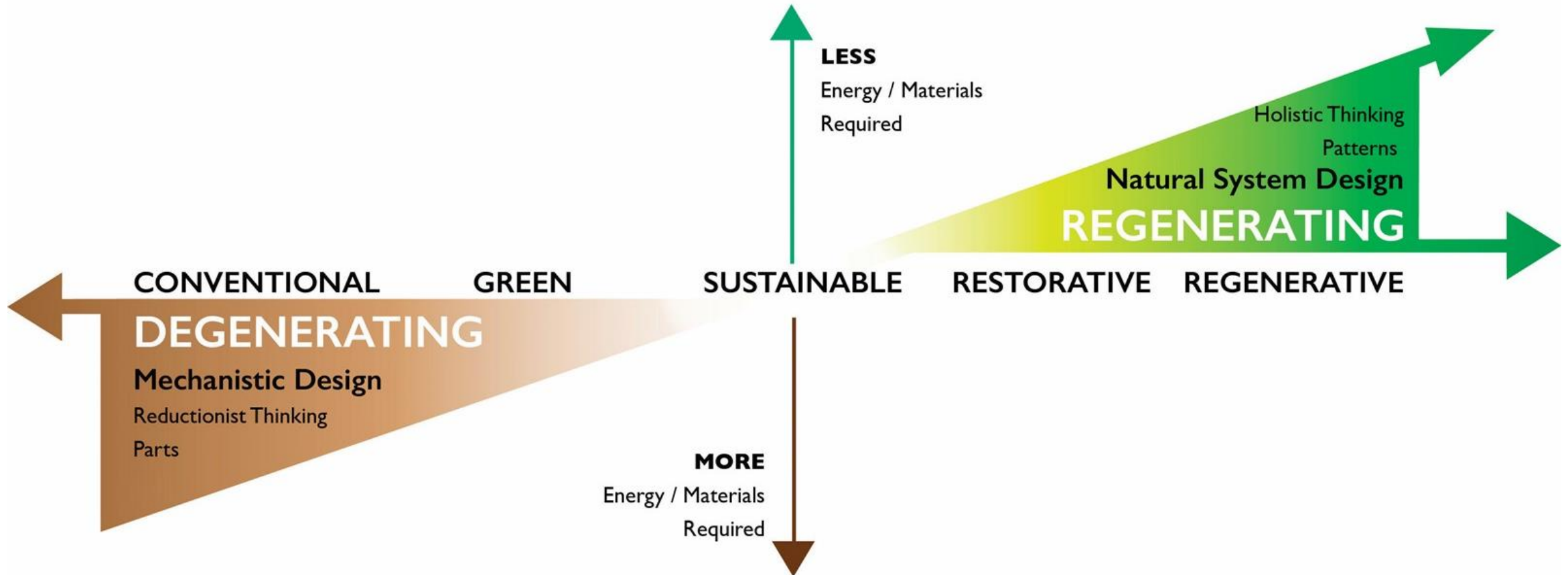
~ Albert Einstein



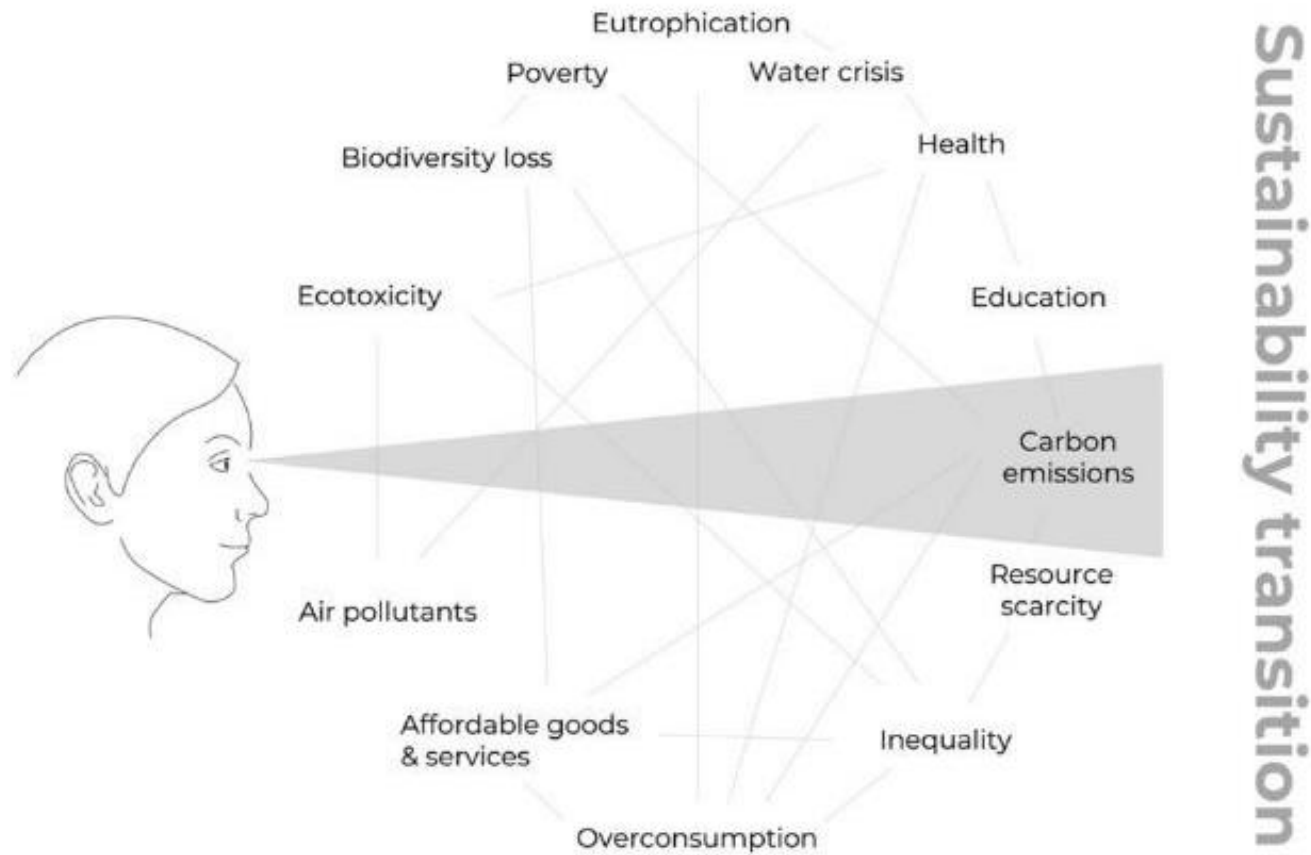
It is not getting easier....

WORLD POPULATION	YEAR REACHED	TIME EACH BILLION STEP TOOK:
1 Billion	1804	0 > 1: 300,000 years
2 Billion	1927	1 > 2: 123 years
3 Billion	1960	2 > 3: 33 years
4 Billion	1974	3 > 4: 14 years
5 Billion	1987	4 > 5: 13 years
6 Billion	1999	5 > 6: 12 years
7 Billion	2011	6 > 7: 12 years
8 Billion	TODAY	7 > 8: 11 Years
		UN Predictions:
		8 > 9: 15 years
		9 > 10: 21 years

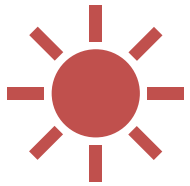
How quickly can we change our economy?



Carbon Tunnel Vision



We need toolboxes of solutions....



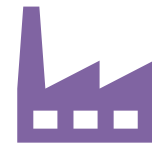
55%

of emissions can be tackled by the transition to renewable energy



45%

of emissions come from the way we make & use products and food, and manage land



**Engineering,
manufacturing
and materials
are critical**

**The Stone Age did
not end for lack of
stones...**



**... and the Oil Age will
end long before the
word runs out of oil**



Stories of Opportunities

Circular-ish: the messy reality of circular design



Circular-ish

Green-washing

Green-shaming

WHAT IT MEANS: GREEN
SHAMING: IS THE ACT OF
SHAMING SOMEONE ELSE
BECAUSE YOU PERCEIVE
THEM TO BE LESS GREEN
THAN YOU.

greenwashing
[grəʊn-wash-ing] /verb

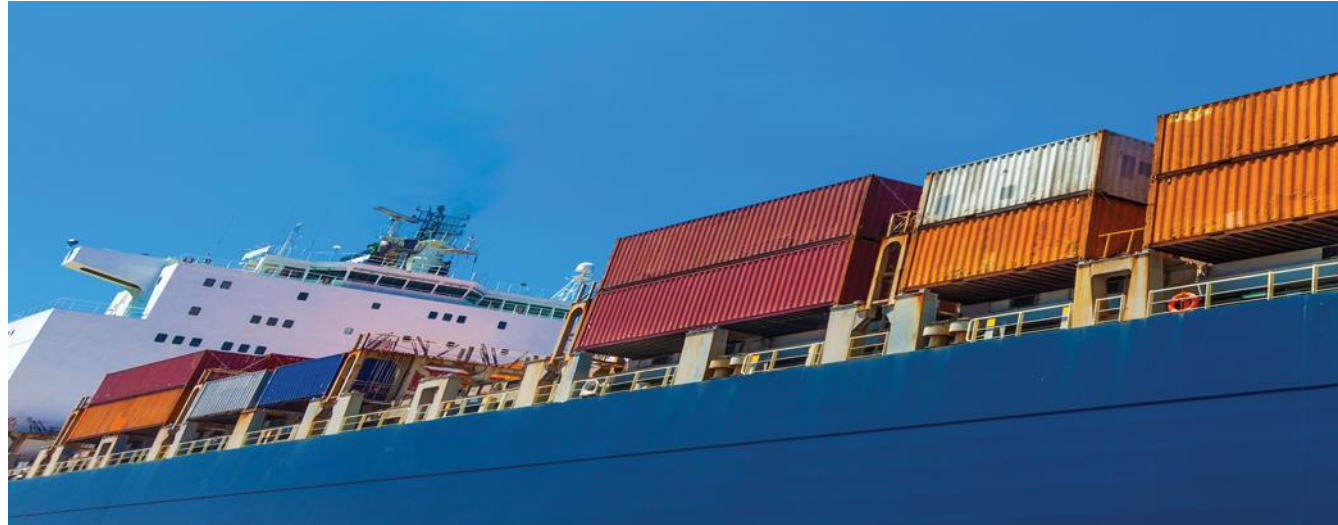
1. Is a term used to describe the marketing tactics used by big-name, fast-fashion companies to advertise their new supposed sustainable lines of clothing.
2. The process of conveying a false impression or providing misleading information about how a company's products are more environmentally sound.

Textiles need to be circular



Every year, around 220,000 tonnes of textiles enter landfill.

Transport Biofuels




Waste to Value



Tackling plastic waste for nurseries



A person is sitting on a rocky cliff, looking out over a vast sea of clouds. The sun is setting in the distance, creating a warm, golden glow. The clouds are thick and white, filling the valley below. The person is wearing a dark jacket and shorts, and is looking towards the horizon.

**The journey of
a thousand miles
begins with one**

step.

Lao Tzu

You matter – It matters

But I can't make a difference.....



If you think you are too small
to make a difference, try
sleeping with a mosquito.

Dalai Lama XIV

quote fancy

Disrupt before being disrupted

Uncertainty is the only certainty there is and knowing how to live with insecurity is the only security.

American mathematician and Temple University professor John Allen Paulos

Thank you