Al faces planetary limits: what can we do?

Part 1. The situation

Part 2. The actions



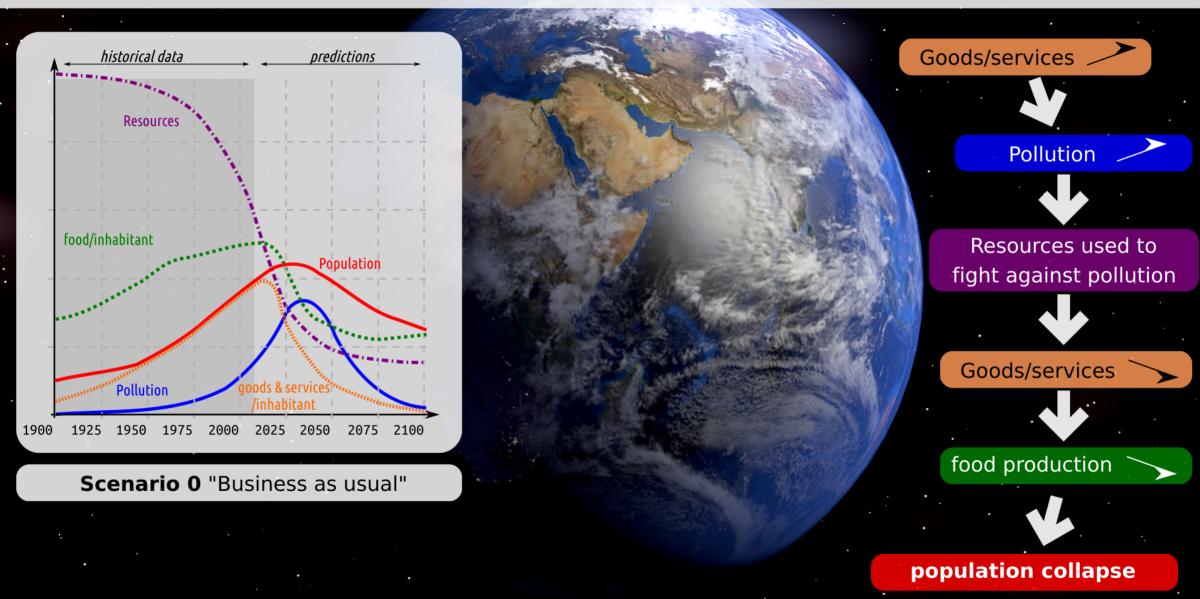
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Part 1. The situation

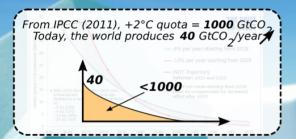
Part 2. The actions

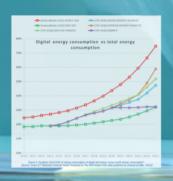


The "World3" model: scenario 0

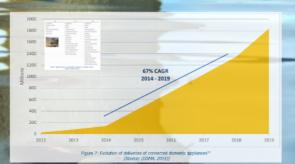


IPCC, digital and Al

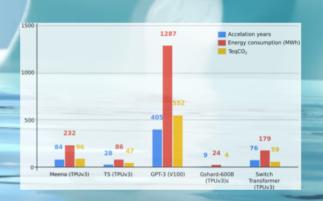


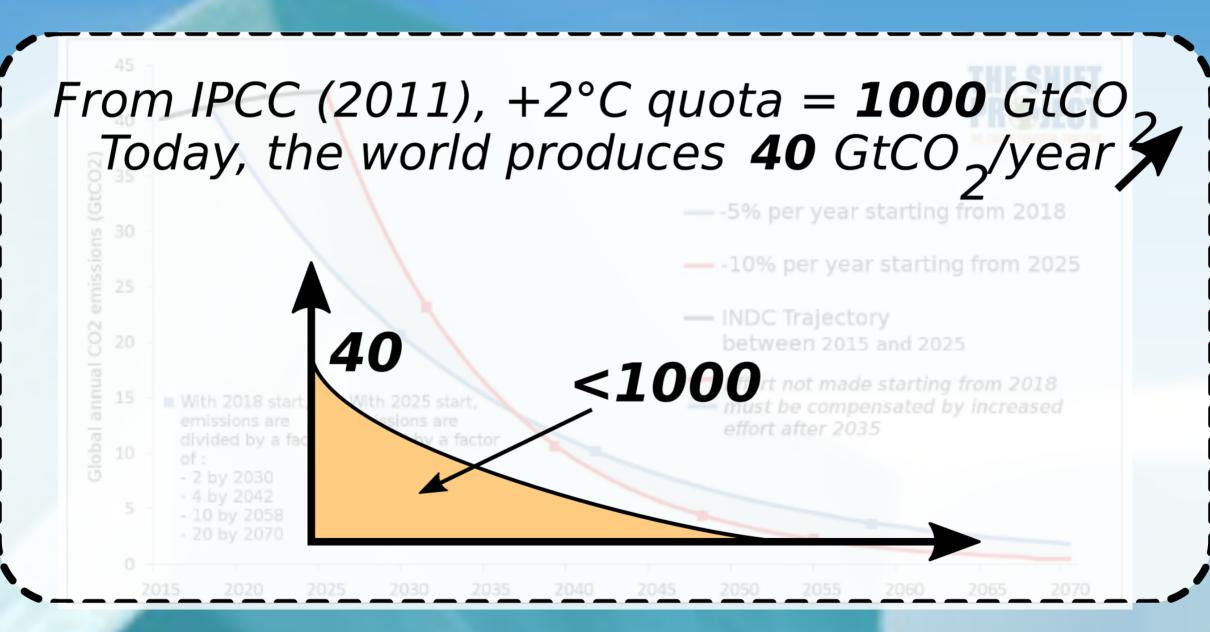


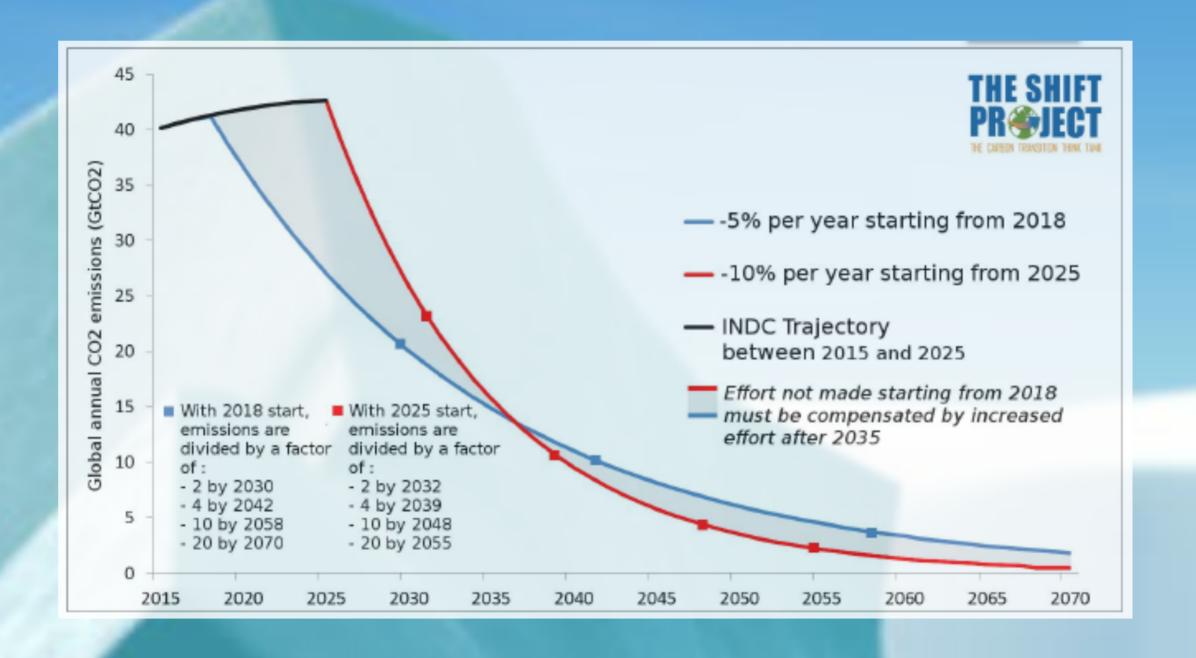


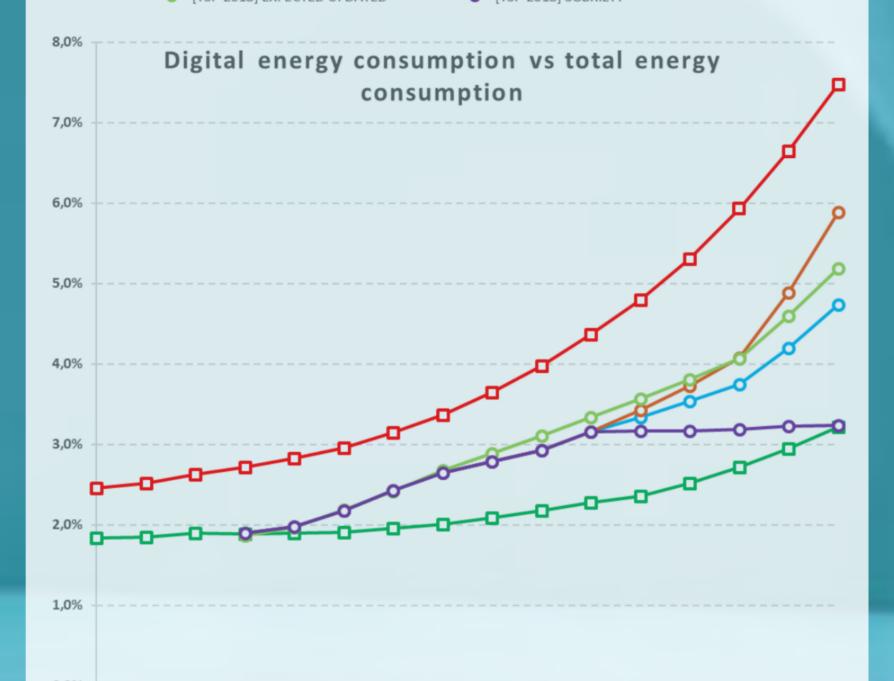


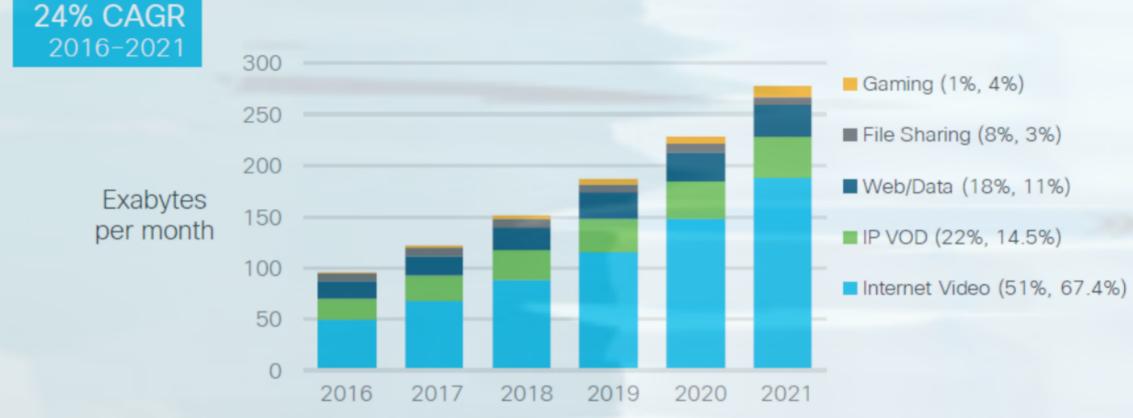












Figures (n) refer to 2016, 2021 traffic shares.

Source: Cisco VNI Global IP Traffic Forecast, 2016–2021.

Figure 8: Evolution of shares of traffic 2016-2021 [Source: (Cisco, 2017a)]

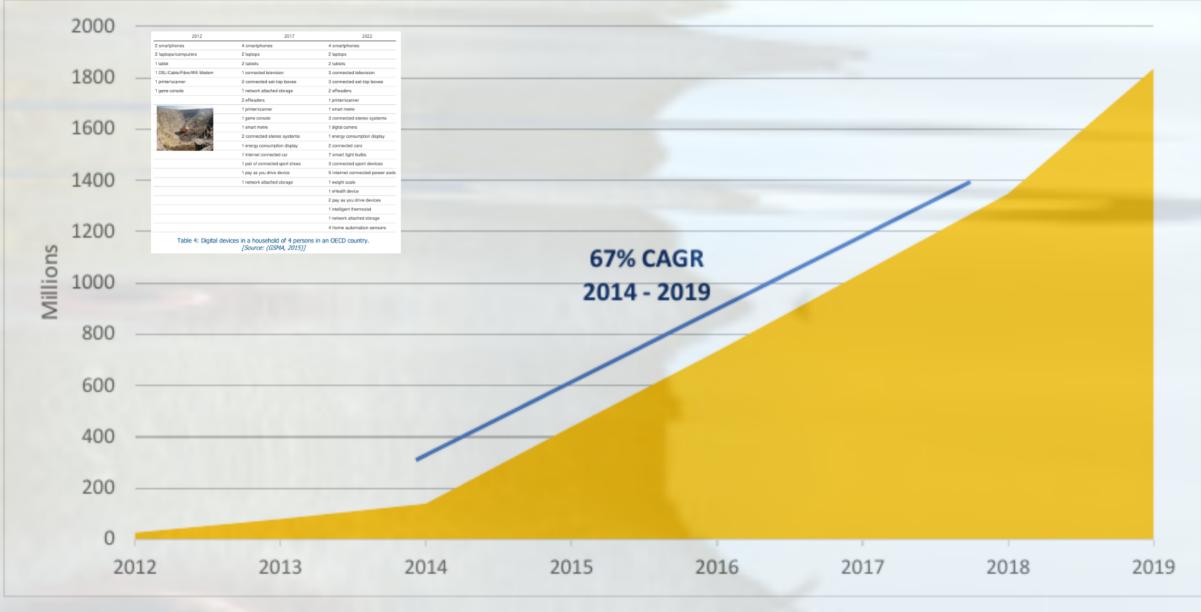
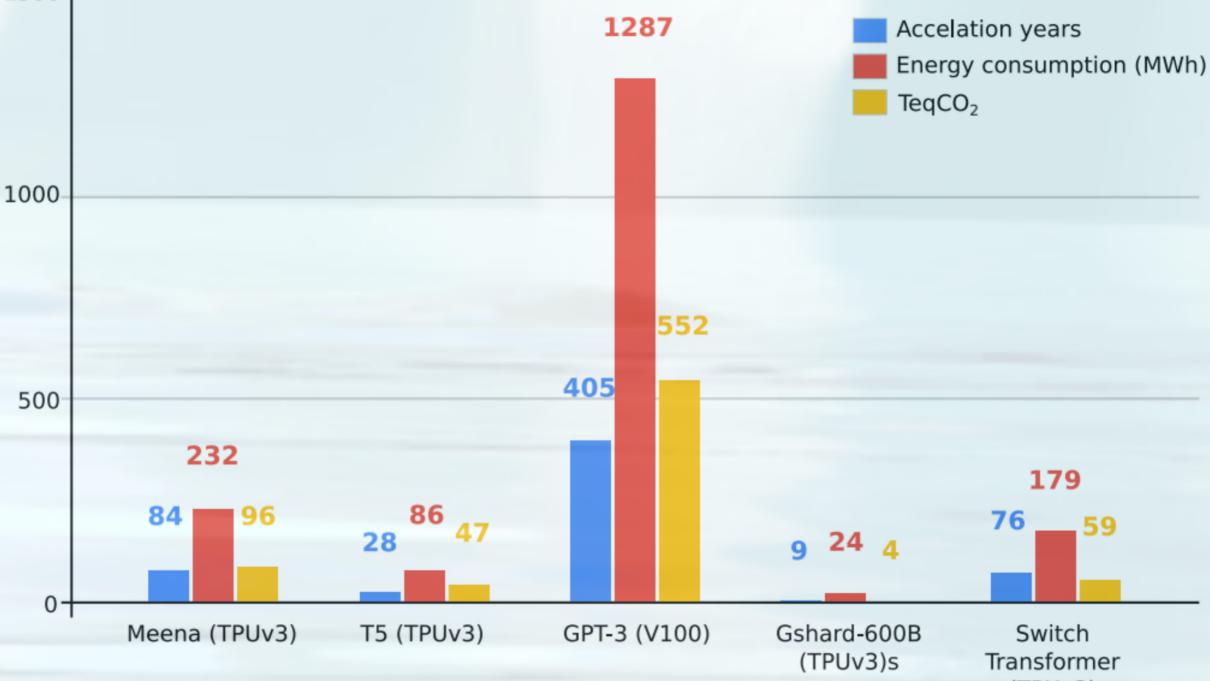
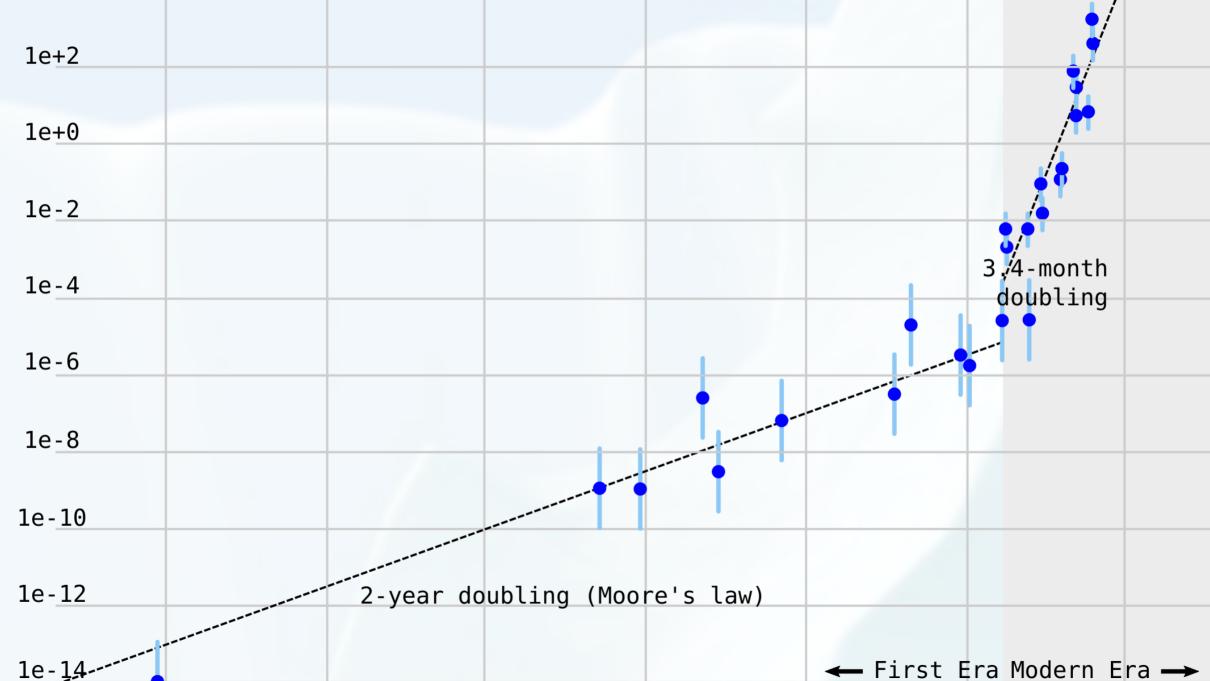


Figure 7: Evolution of deliveries of connected domestic appliances¹⁴
[Source: (GSMA, 2015)]

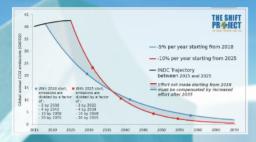
2 laptoparcomputers	2 laptops	z iaptops
1 tablet	2 tablets	2 tablets
1 DSL/Cable/Fibre/Wifi Modem	1 connected television	3 connected television
1 printer/scanner	2 connected set-top boxes	3 connected set-top boxes
1 game console	1 network attached storage	2 eReaders
	2 eReaders	1 printer/scanner
	1 printer/scanner	1 smart metre
	1 game console	3 connected stereo systems
	1 smart metre	1 digital camera
	2 connected stereo systems	1 energy consumption display
	1 energy consumption display	2 connected cars
	1 Internet connected car	7 smart light bulbs
	1 pair of connected sport shoes	3 connected sport devices
	1 pay as you drive device	5 internet connected power soci
	1 network attached storage	1 weight scale
		1 eHealth device
		2 pay as you drive devices
		1 intelligent thermostat
		1 network attached storage
		4 home automation sensors

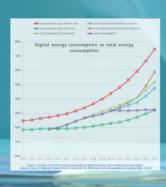




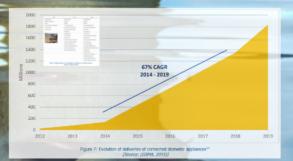


IPCC, digital and Al

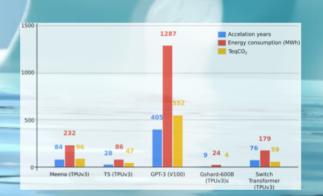












Tools for conviviality

Illich, I. (1973). Tools for conviviality

Definition of a "convivial tool"

- Extends their user.
- 2 Remains a means, not a need.
- 3 Does not induce inequalities of access.

How to build a convivial society?

Is not convivial (why?)

Thermo-industrial society.
Personnal car.
Modern science.

Western health system.

Western school system.

Radical monopoly!

Bikes (2kWh/100p-km)

- 1 Increase accessible space.
- 2 Reparable, no external energy.
- 3 Low cost, accessible to all.

Cars (80kWh/100p-km)

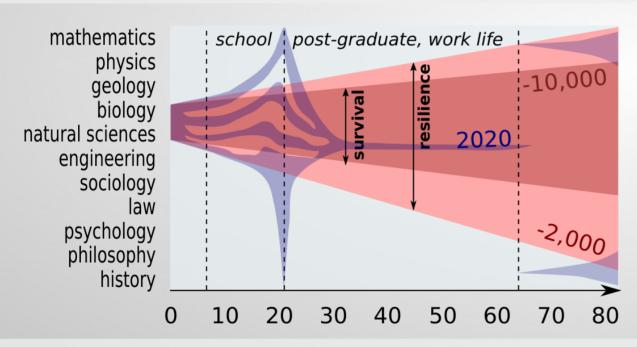
- 1 Increase accessible space.
- 2 Dependence to oil, to reachable places.
- 3 Expensive, deleterious to the planet.

Science, knowledge sharing, and Al

Illich, I. (1973). Tools for conviviality

Modern science and instruction

- Provide protection, equipment, knowledge.
- Overspecialized, targeting consumers
- 3 Inaccessible without diplomas and to the poor.



Technologies of AI

- 1 Allows for fast automated decision making by machines.
- 2 Reduces "power of action", decision making, know-how.
- 3 Increases dependence to machine, oil: reduces resilience.



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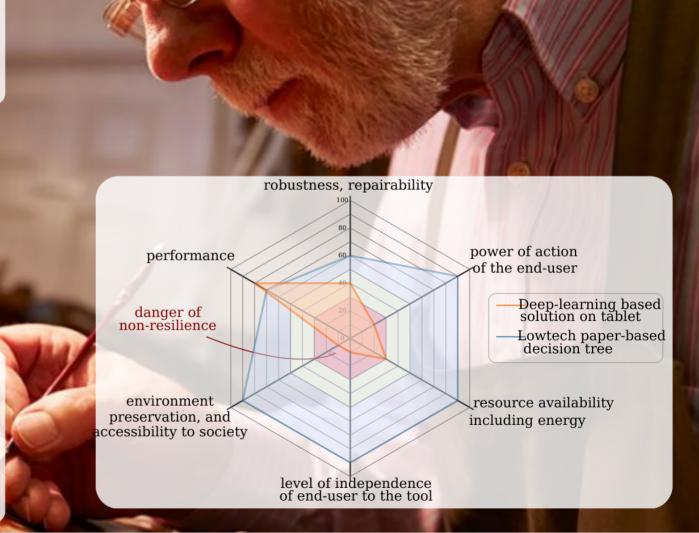
Investing in low-techs

What is a low-tech?

- Compatible with "conviviality".
- Brings back knowledge, resilience.
- Moves thermal to metabolic energy.
- Local in space and time, but shared.

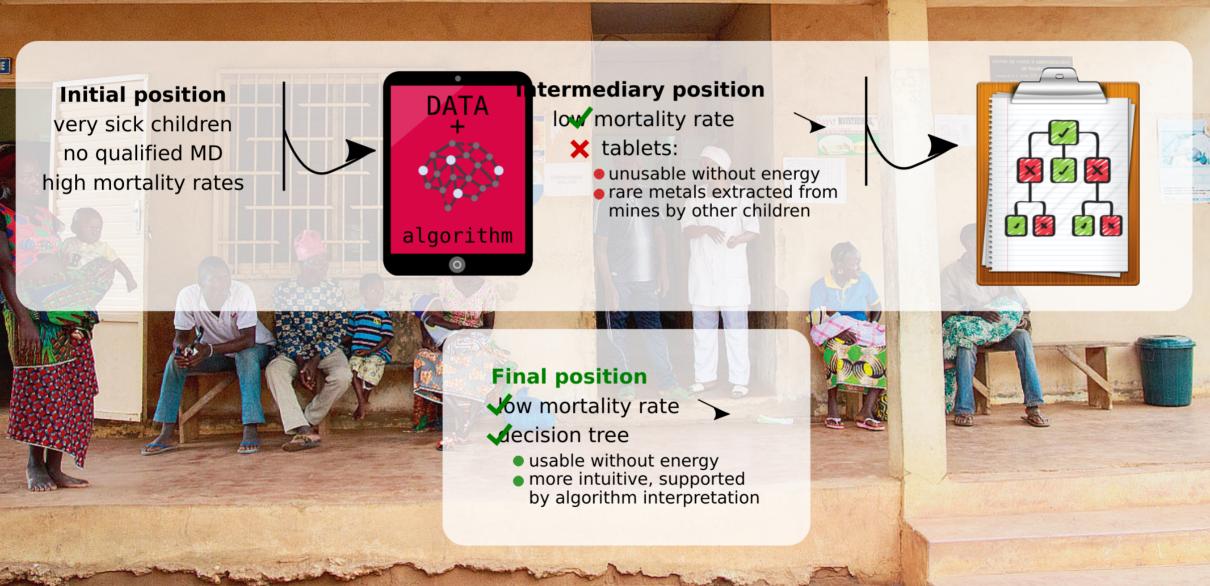
Examples of low-tech

- Solar-powered low-tech website
 - (https://solar.lowtechmagazine.com/)
- Computerless informatics & Al.
- Minimalistic digital for resilience.



Concrete example: from high-tech AI to low-tech paperboard

Dr d'Acremont (dispensaries in Tanzania) https://www.youtube.com/watch?v=ni-l_AXepSs



Power of action and diplomacy of interdependances

Baptiste Morizot, "Manières d'être vivant"

Spinoza's Ethics of happiness

→ rationality *and* desire → power of action

A geopolitics of the living

- → diplomacy of interdependances (not a diplomacy of individual interests)
- → power of action = apprehend interdependances

ex. wolves, sheep, dogs, shepherds, soil.

Build and protect

- build the diplomacy: it is a "practice"
- fight those who destroy it

ex. bees oppose (by their own death) threateners of life: their political power

Communities of importance

- who are we?
- we are our mitochondria, our body envelop, our ground, the living, life?

Where does that bring us?

- Option 1. "more efficiency" → fateful illusion
- Option 2. "repair Nature" → means 'nature' is not 'us'?
- Option 3. "diplomats of interdependances"
- → think as the living, not as self-interested human beings.

Thank You.

