

# Shifts from passive to active and from competitive to collaborative learning

WAAS

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SAPIRR

Systems Approach of Public Innovation and Responsible Research

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EU CHAPTER CoR-EU

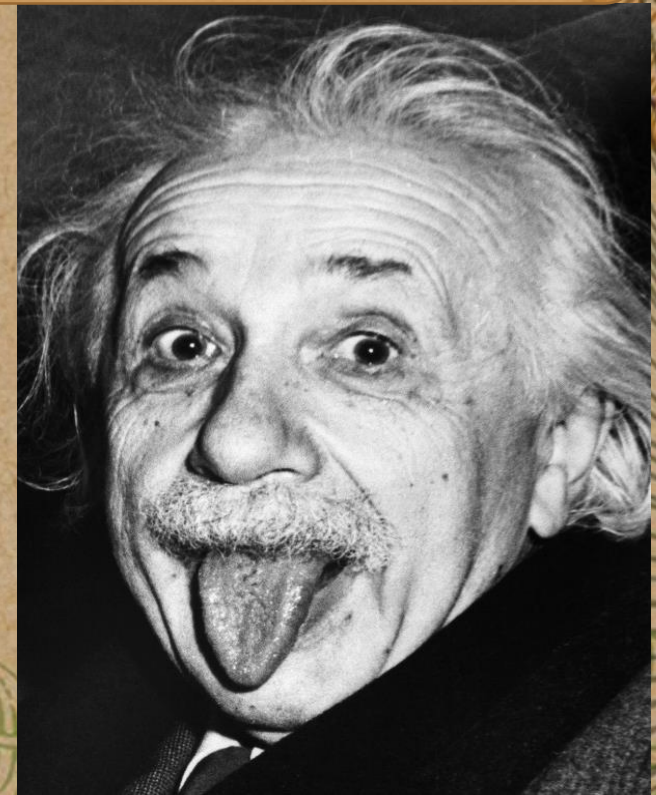


Can we use our own thinking to detect and correct the errors in our own thinking?



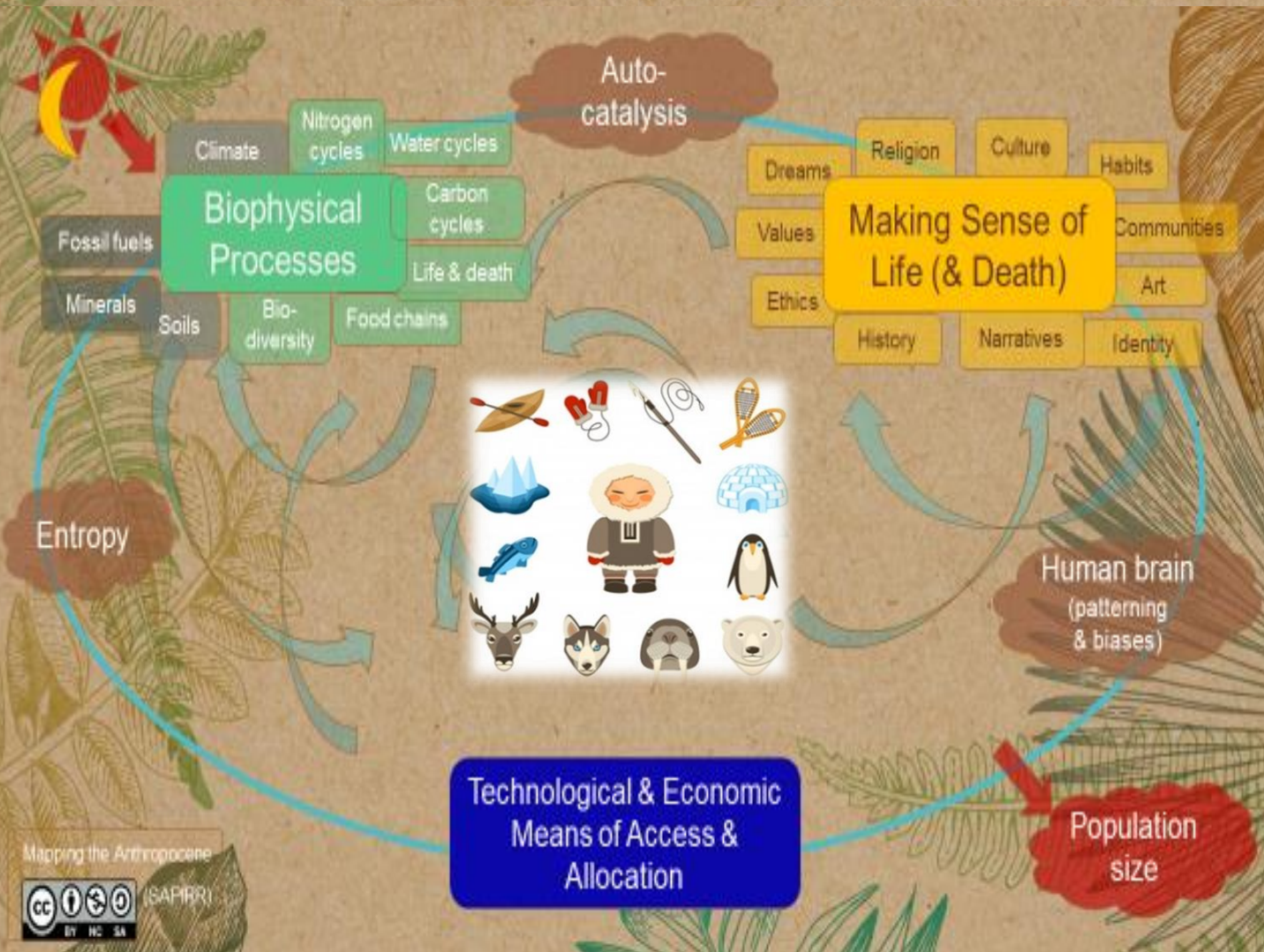
“We cannot solve problems by using the **same kind of thinking** we used when we created them.”

Re-thinking  
education =  
‘thinking about  
thinking’





# Stories to foster historic awareness & reflection on values



Greenland, about 1.000 years ago - Viking settlement - considered their own culture & E.T. means **superior** to the Inuit ones (wooden vs ice dwellings, cattle vs fish, foreign trade vs commons)

Starved to death after about 450 years – while Inuit community continued to thrive

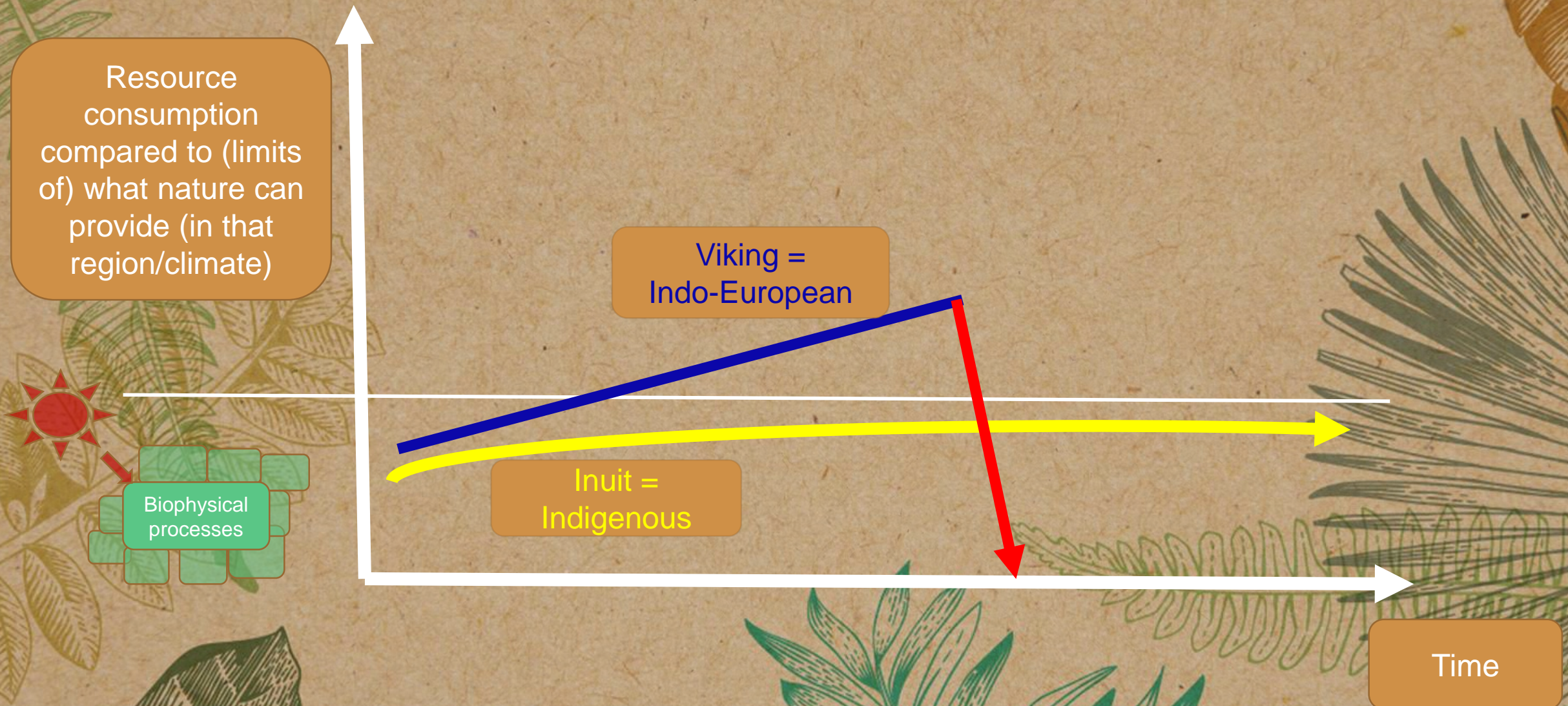
They preferred to hang on to their own thinking (& die), rather than adopt Inuit values & T.E. means (& survive)

Sources:

- Jarred Diamond, *Collapse*
- Jeremy Lent, *The patterning instinct.*



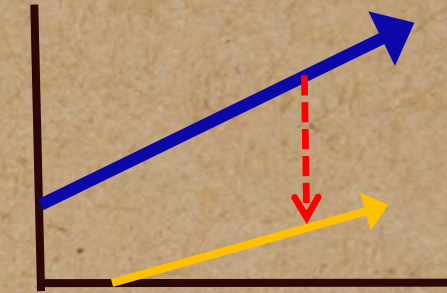
# Socio-economic systems over time: non-linearity





# Are we wiser than the Vikings? Re-think 'human development'!

Ecological footprint  
Planets needed for 'development'



Education & health care  
based on 're-distribution'  
of % of E.T. growth;  
this explains why HDI-  
development always  
exceeds planetary limits

We have defined & organised "development" in such a way that

- it does not take into account the biophysical processes human life, health and reproduction **depend** on
- it threatens the future of our children and jeopardizes human survival

Real development requires us to 'land on Earth' again (cf. Bruno Latour, *Down to Earth*)

In *that* perspective nations in the global North appear *less developed* than many peoples in the South



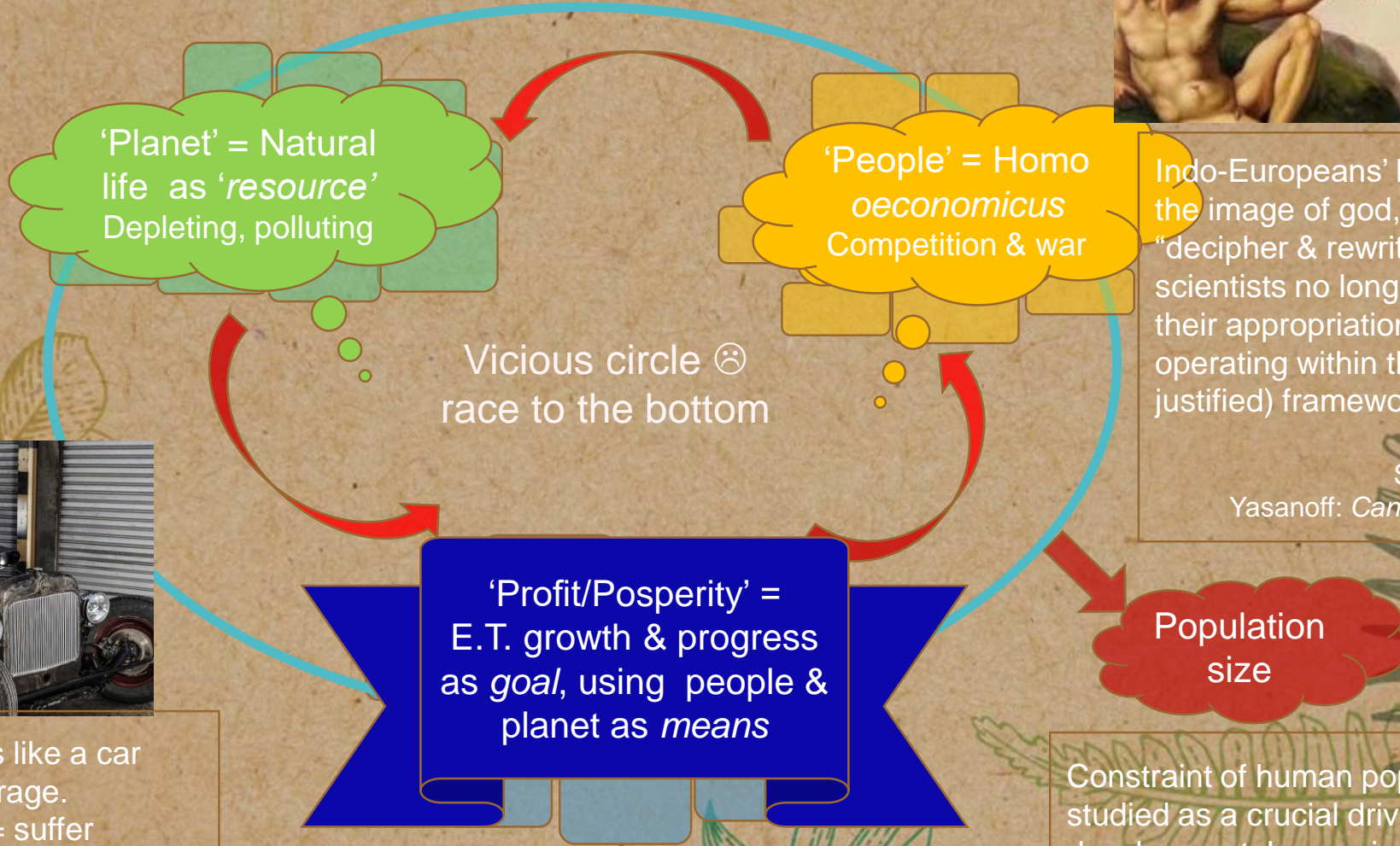
# What do we have in common with the Vikings?

## Western framing of 'development' = lock-in



Indo-Europeans' belief: man is created in the image of god, above nature. Sciences "decipher & rewrite the book of life". Most scientists no longer rely on God to justify their appropriation of Life, yet keep operating within this (not scientifically justified) framework.

Sources: Harari: *Homo Deus*  
Yasanoff: *Can science make sense of life?*

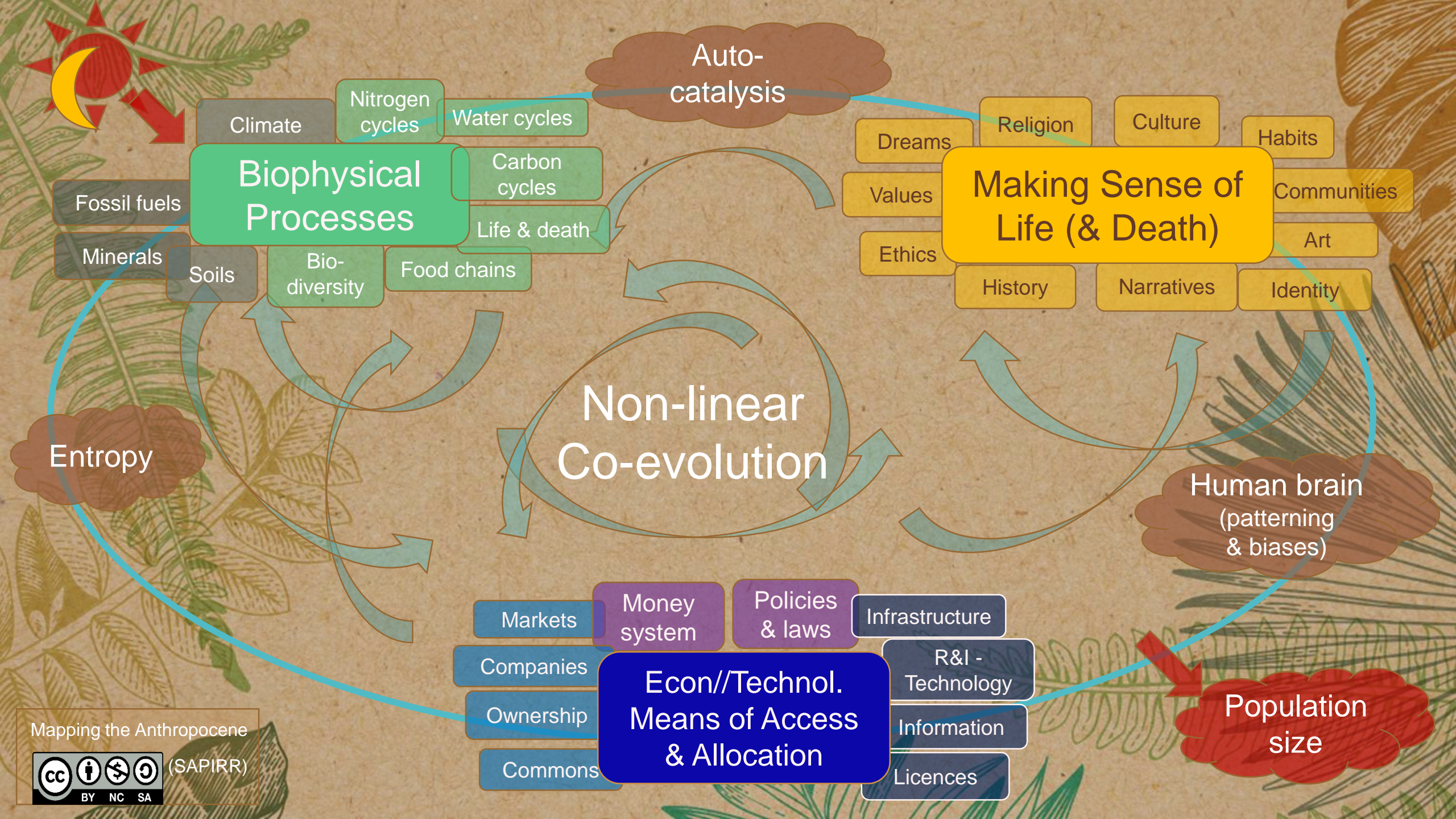


Current E.T. system is like a car running in a closed garage.

- Switch engine off = suffer
- Keep it running = suffer (& die)

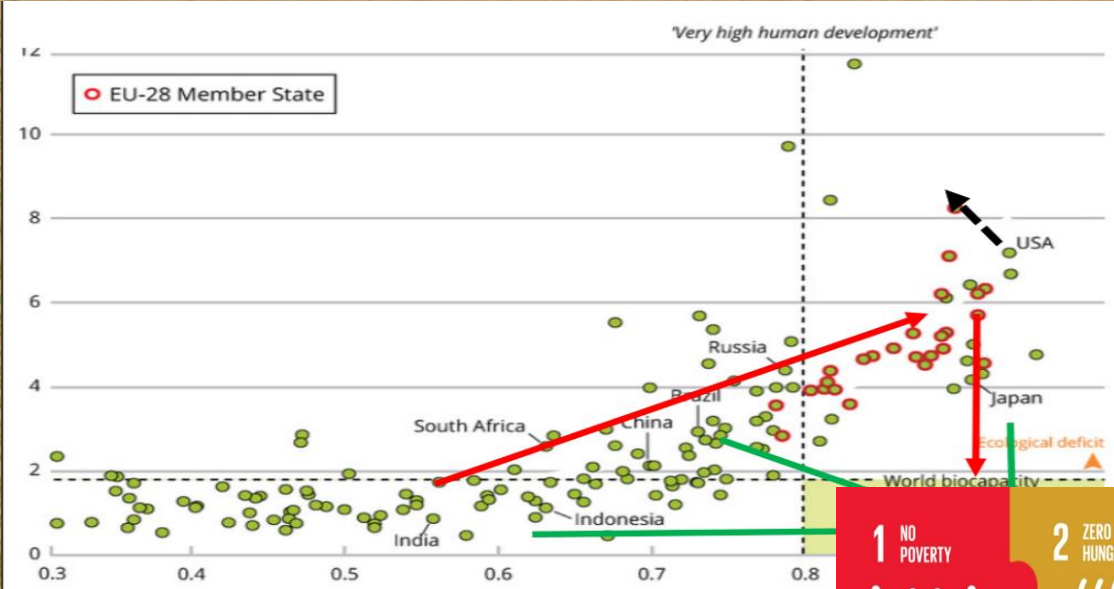
Constraint of human population is hardly studied as a crucial driver of sustainable development. Increasing life expectancy and population growth are mostly framed as progress and justification for further E.T. growth.







# Thinking 'future education' again : UN Agenda 2030



A GLOBAL agenda for sustainable development; not just the South 'catching up' with the North, but above all the North learning to thrive with respect for all life.

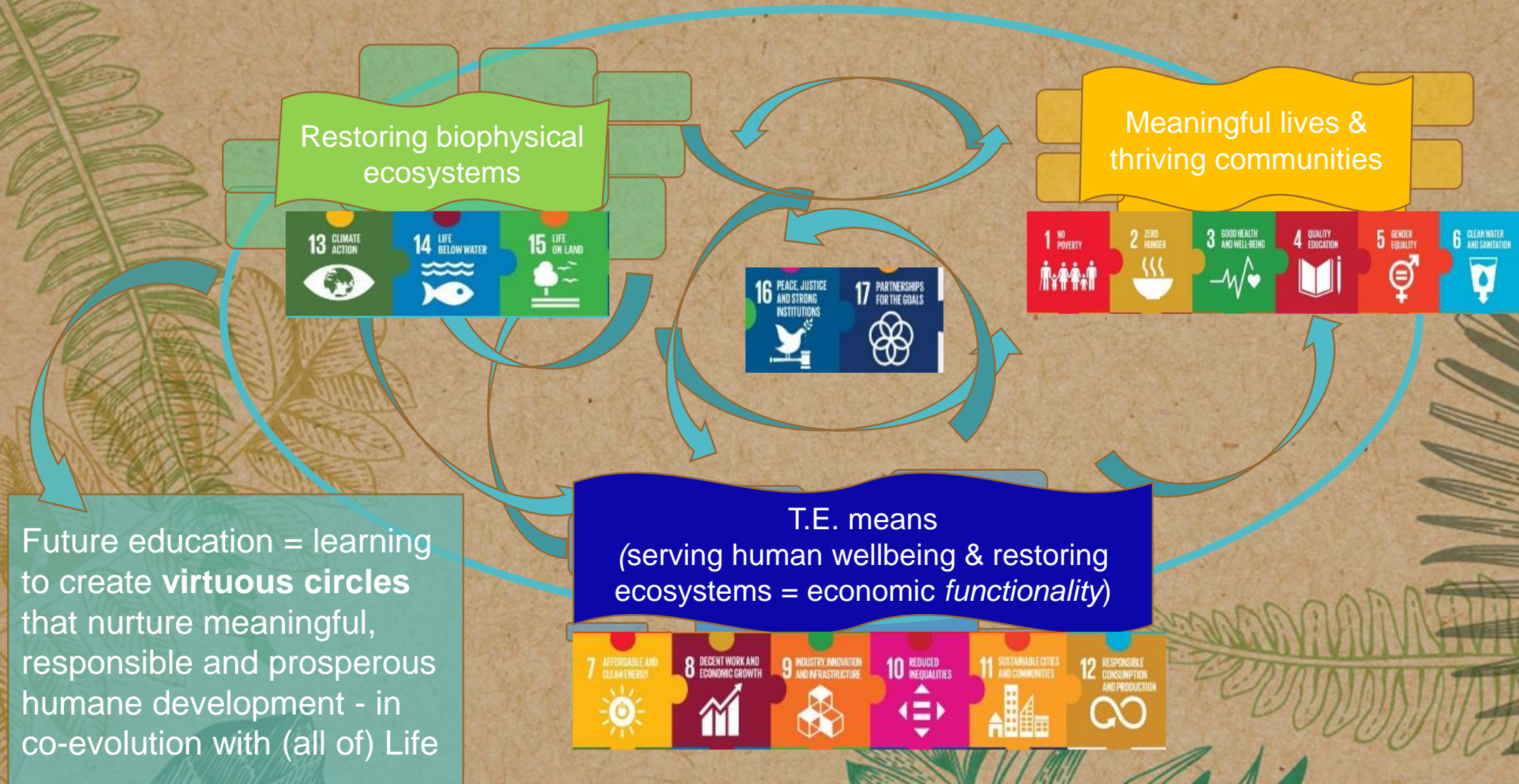
Not a choice menu of goals, but an integrated agenda. E.g. 'how to achieve economic growth (SDG8) while **at the same time** increasing human and planetary well-being?'





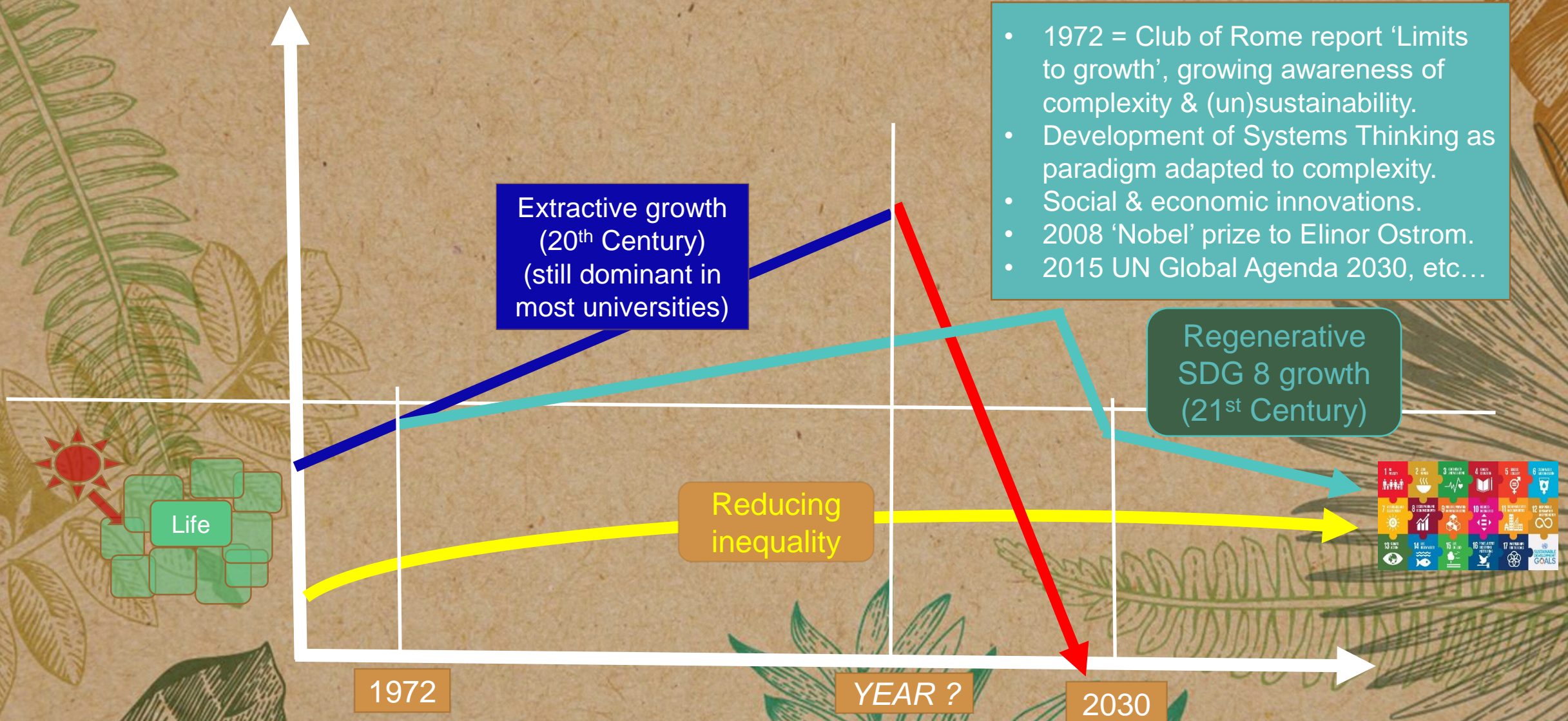
# SDG model of 'development'

Using Anthropocene mapping to visualise (non-linear) pathways to complex goals





# Visualising perspectives & emerging alternative futures







Holocene solutions:  
E.T. means to  
'improve' growth



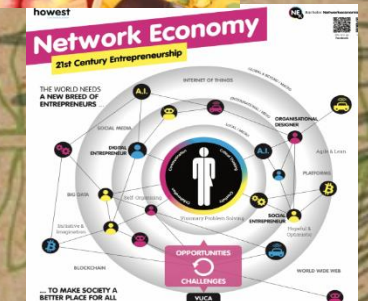
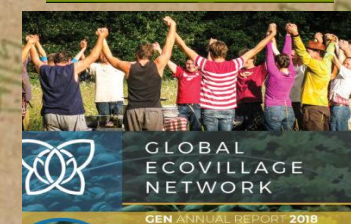
RENCONTRES  
DE LA FRUGALITÉ HEUREUSE  
& CRÉATIVE



*Virtuous circle* 😊  
regenerative culture

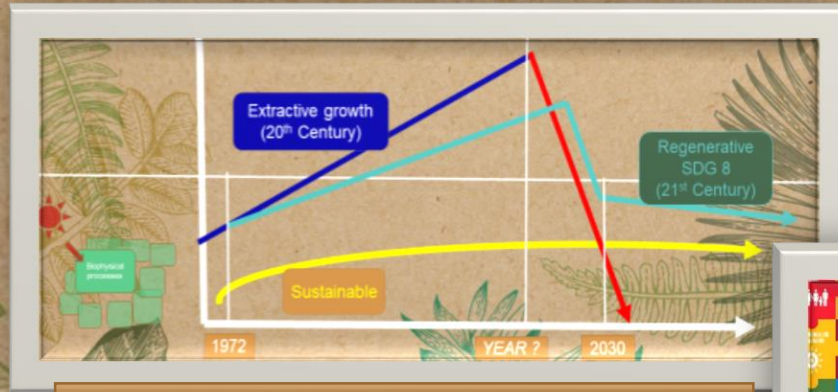


Anthropocene solutions  
Indigenous knowledge  
T.E.R.R.A. means

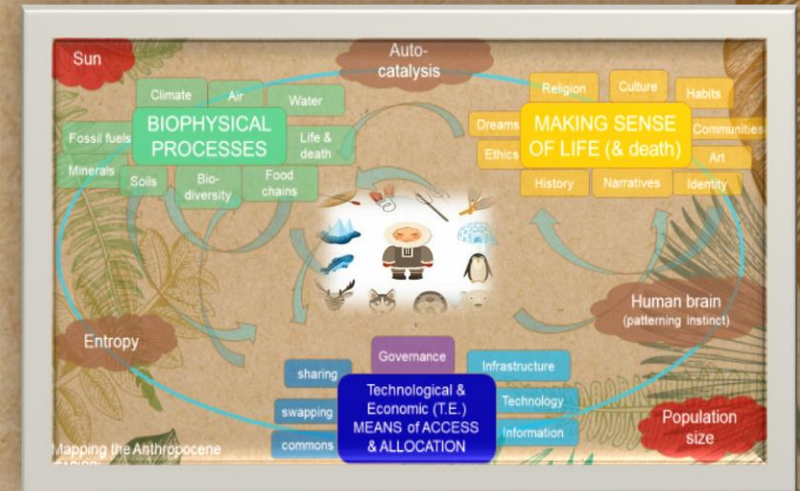




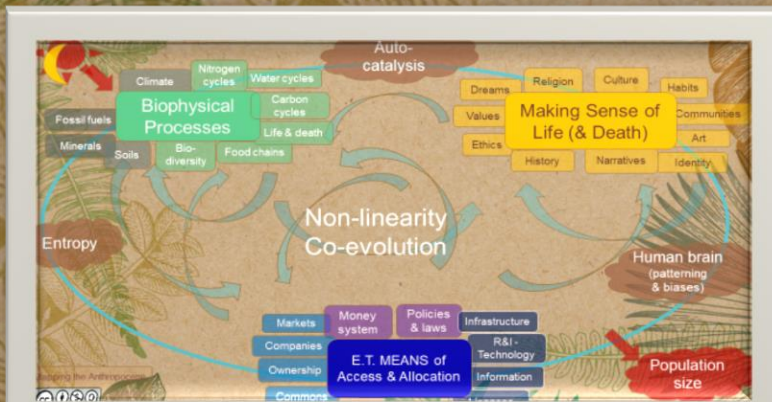
# Summary: the 4 Placentas of Future Education



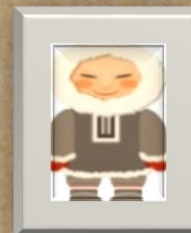
**Hope:** focus on emergence & resilience (leading to SDGs)



**Values & stories** core to survival  
– stimulate reflection & choice



**Embrace** complexity & uncertainty  
- foster creativity (Arts)



**Co-responsible learning:**  
active & collaborative (space for  
exploring future-proof solutions)



# Thank you

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