Understanding Nature's Purpose in Starting all New Lives with Compound Growth

New Science for Individual Systems: choices for Future Society

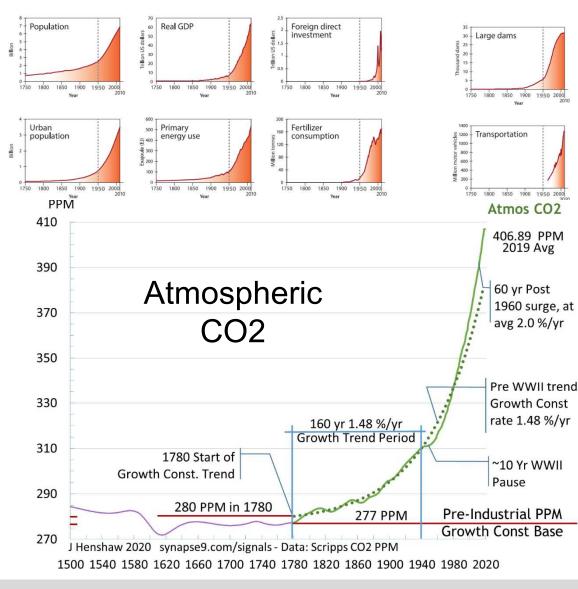
A general systems view and practical guide

ISSS 2021 - Paper and Slides https://synapse9.com/ISSS-21

Jessie Henshaw Slides 18 + 8 <u>www.synapse9.com/signals</u> <u>sy@synapse9.com</u>



The Great Acceleration of the Anthropocene



Year Life built around ever more rapidly accelerating increases in rearranging nature and our own lives

Paper production

International

tourism

1800 1850 1900

¥ 30

5 200 ·

60

1750

iojijiji 400

1750 1800 1850 1900

Water use

1800 1850 1900

1750

Year

Telecommunications

1750 1800 1850 1900 1950 2000



• We seem to need a whole new life...

Why haven't we studied how nature starts all new lives with compound growth??

- Science doesn't study that.
- It's too complicated, and you can't change nature
- We only care about the profits from growth
- We care about the success of new lives, but we have our own languages for that.



- Compound growth of natural systems
 - Signals the start of individual new lives,
 - Natural complex adaptive systems (NCAS)
 - Developing by growth, plan A to B to C
- A universal pattern of milestones
 - Teaches a useful new natural systems science
 - For understanding *new lives* of all kinds:

plants, animals, ecosystems, weather systems, civilizations, economies, communities, businesses, cultures, societies, social groups, personal relationships, work habits,

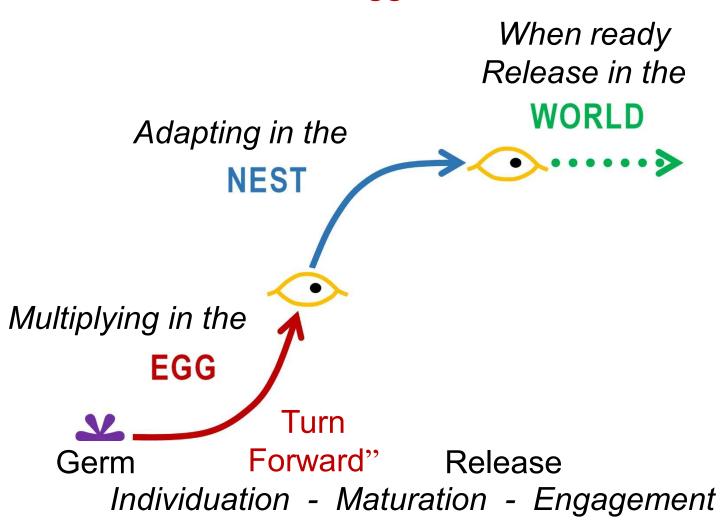
home, office, and artistic projects, etc.



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A - B -

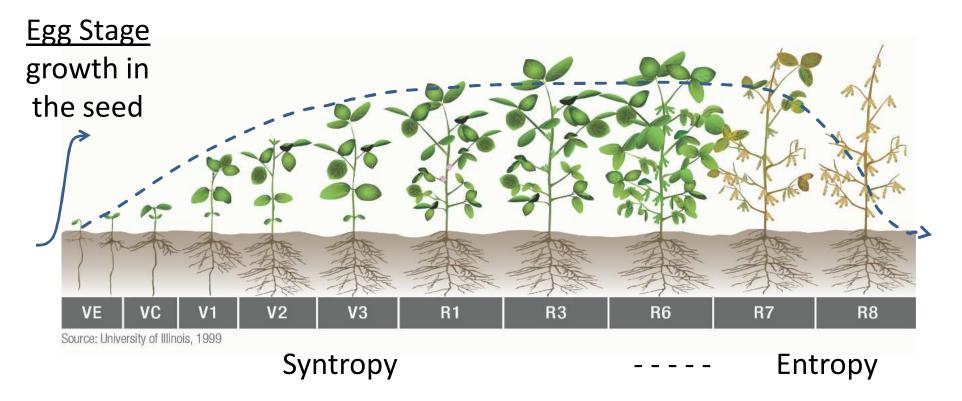
 A common language for all *new lives* Natural Growth or Egg, Nest, World





• Stages of New Lives of Plants

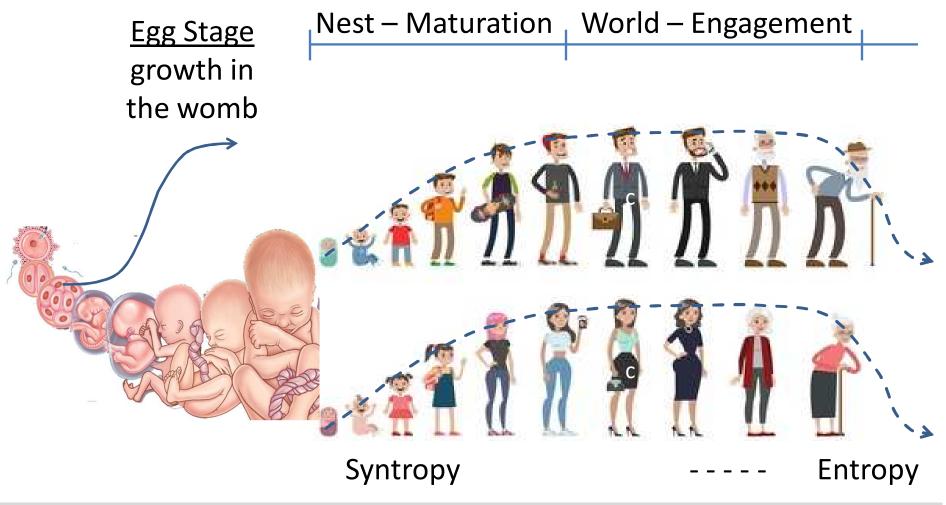






• Stages of New Lives in Humans

• One cell to a Trillion • Then x 22 in 1100 months

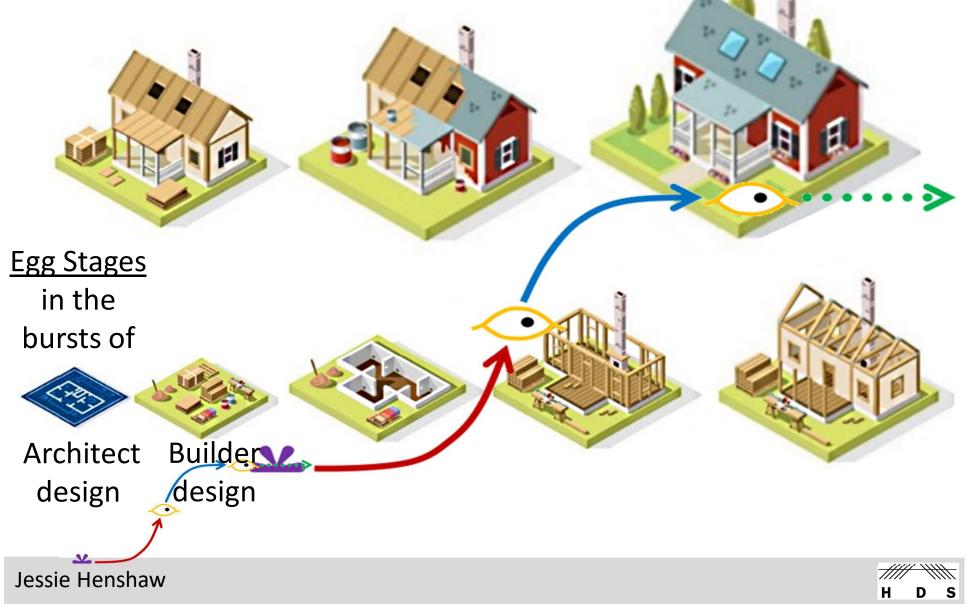


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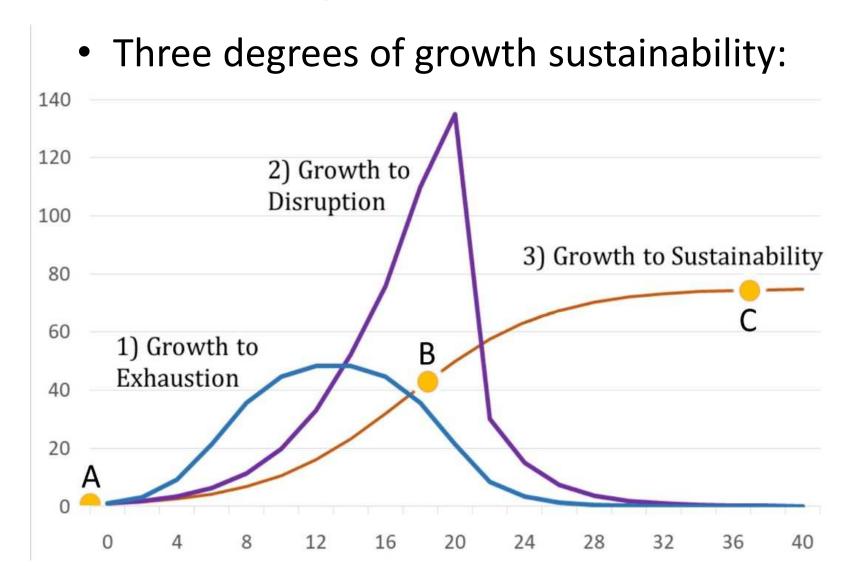
Family dinner

(Germ), Egg, & Individuation <u>Startup</u> – The idea, planning, assemble main ingredients and check omissions

- (Hatch), Nest, & Maturation
- Turn Forward set to time the end and add the details, start cleanup and get help from others

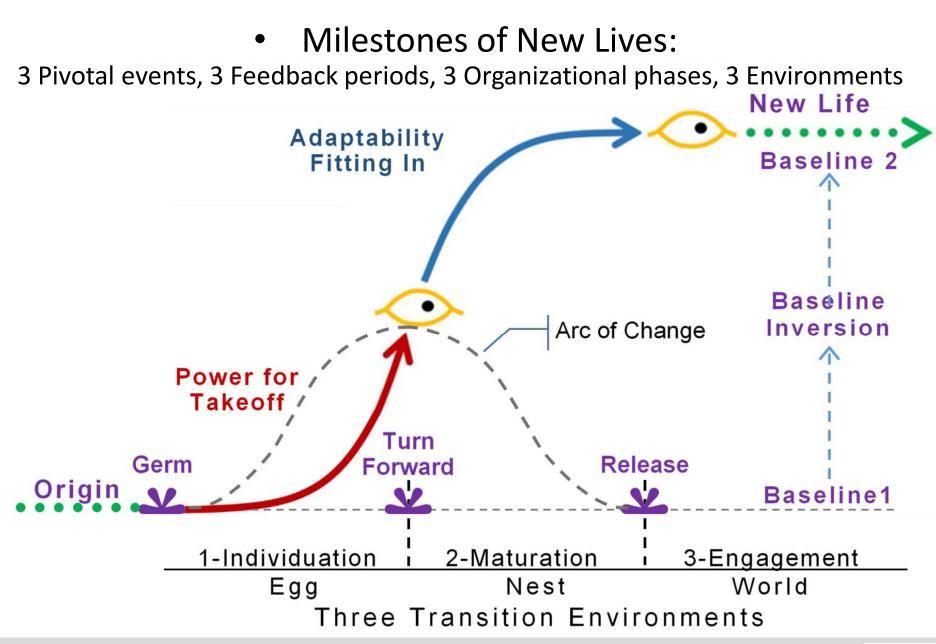
(Release), World & Engagement 3. <u>Serving</u> – and Enjoyment





1. No adaptation, 2. No restraint, 3. Adapting to new life





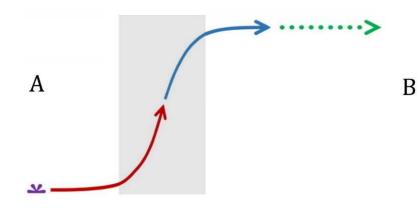
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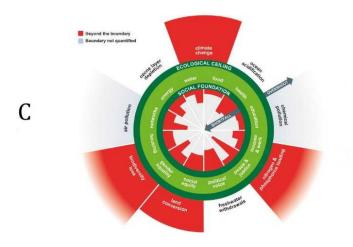
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Related whole system transformation models



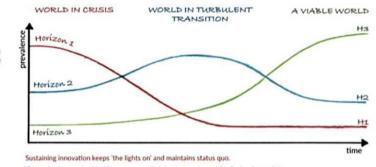
Familiar Long Struggle & Breakthrough

Reworth, Doughnut Economics



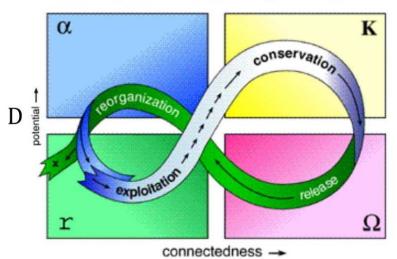
Sharpe, Three Horizons Framework

THREE HORIZONS FRAMEWORK APPLIED TO THE TRANSITION TOWARDS A REGENERATIVE CULTURE

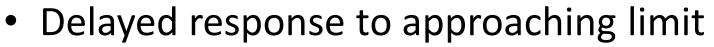


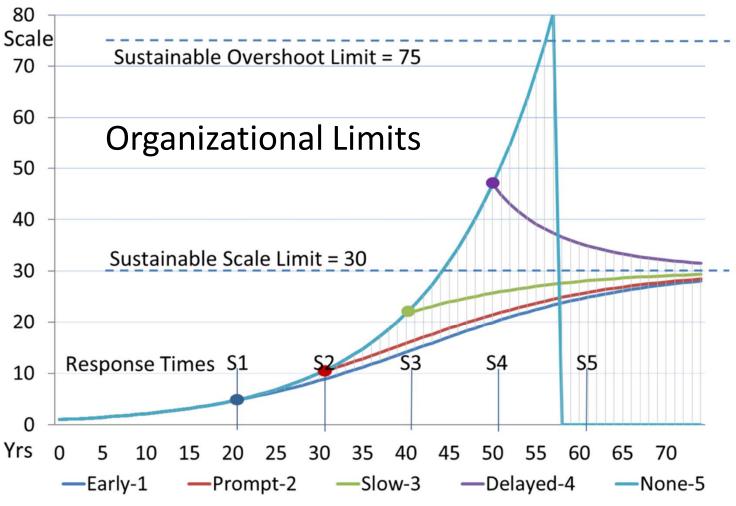
Disruptive innovation identifies opportunities to change the scope of what is possible. Transformative innovation facilitates the transition towards regenerative cultures.

Holling, Panarchy Adaptive Cycle



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Increasing delay; more disruptive of failing response.

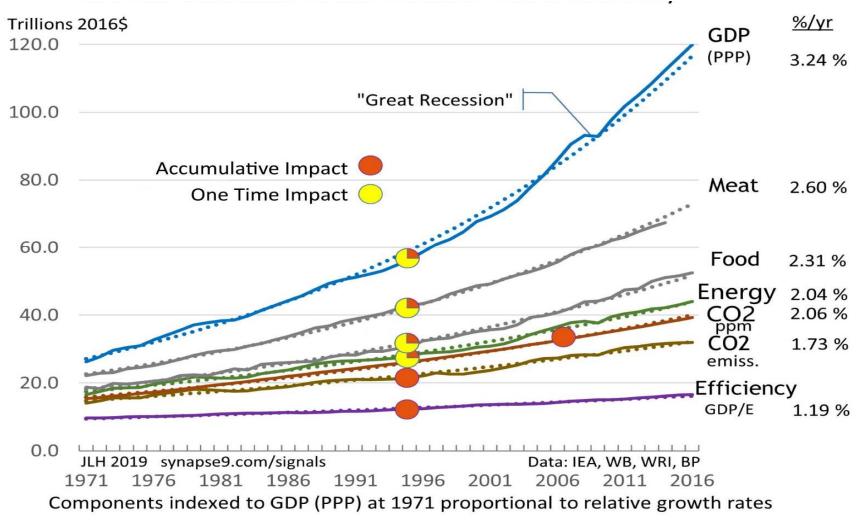
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Growth constants of the world economy



Growth constant coupling of World GDP and impacts

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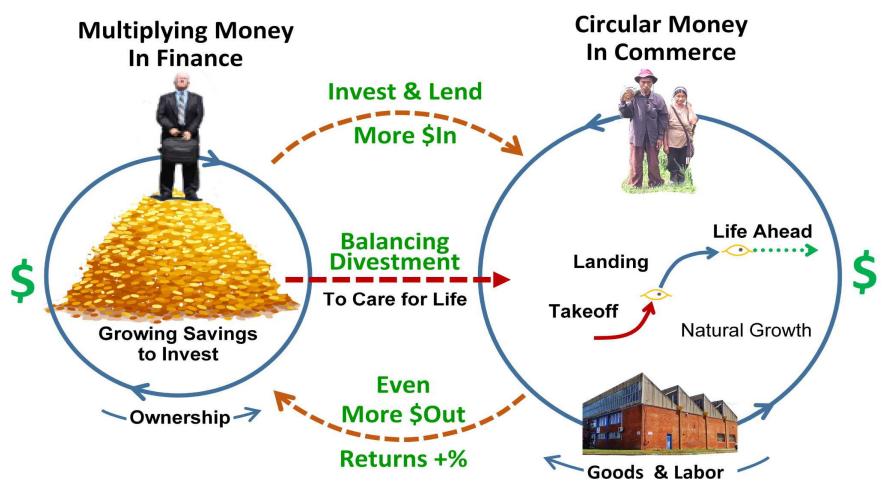
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HDS New science for Individual Systems

 Financial Divestment to Rebalance Finance and Commerce



Maximum "carrot and stick" driving growth



Openings

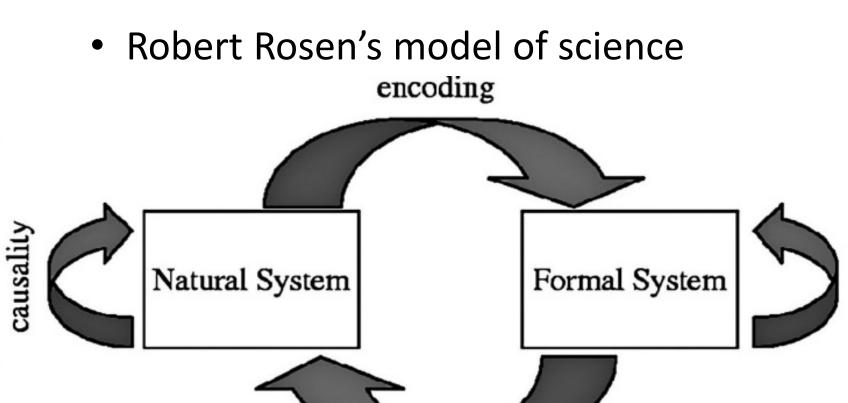
- Diverting investment to non-profits is a strategy for wealthy donors, that might be globalized.
- People are hungry for new information and new choices, to steer their lives in the right direction.
- Natural climax would preserve a profitable and creatively evolving world economy.
- Barriers
 - Discussing the financial "carrot and stick" driving resource use and productivity demands, is taboo.
 - People are not well-informed, and our divided cultures seem unaware we all speak in "foreign" languages.

- Possible Societal Openings?
- People might understand
 - <u>The Earth *needs* a new life</u>, and nature's method of starting new lives might be a real option.
 - <u>A carrot & stick approach to growth is dangerous</u>, now forcing people to run ever faster to fall further behind.
 - <u>We are trapped in a tragedy of the commons</u>, depleting our assets for temporary gains in income.
 - <u>A well-informed planetary sense of community</u> is needed but requires finding a planetary language.
 Could it build on nature's way of starting new lives?





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decoding

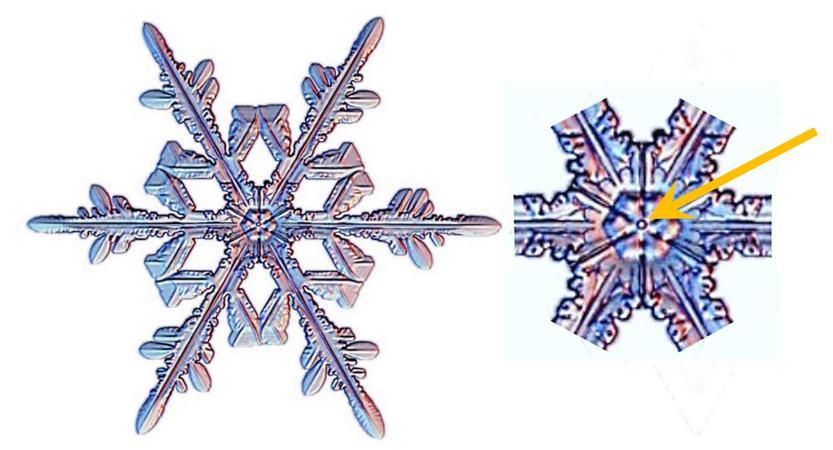
Finding, Encoding and Decoding natural patterns to test our theories of nature

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mplication

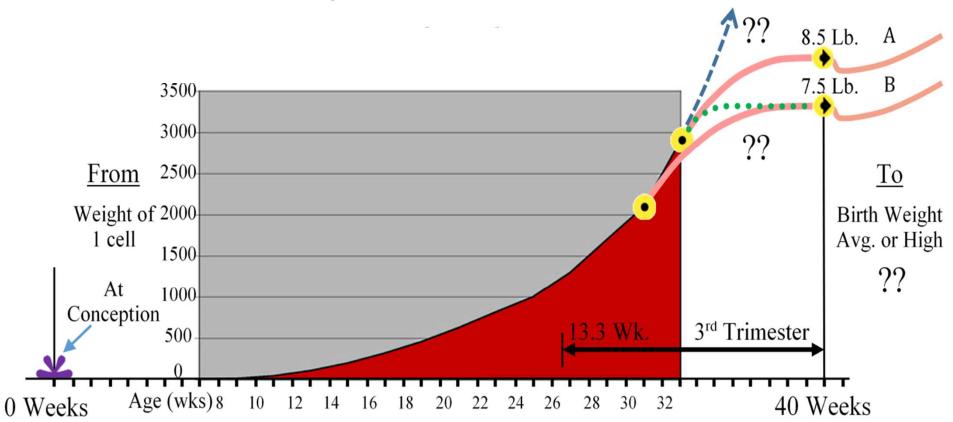
• A Snowflake and its central kernel



The crystal builds up from a tiny central dot. The filigree "entangled" within the first crystal.



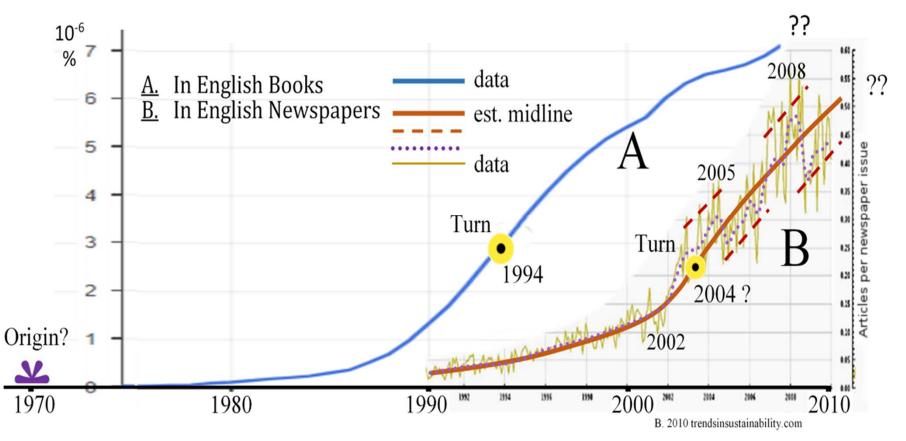
• Fetal Weight data: 8 to 32 weeks



Case Study I. Human Gestation based on partial data for fetal weight.



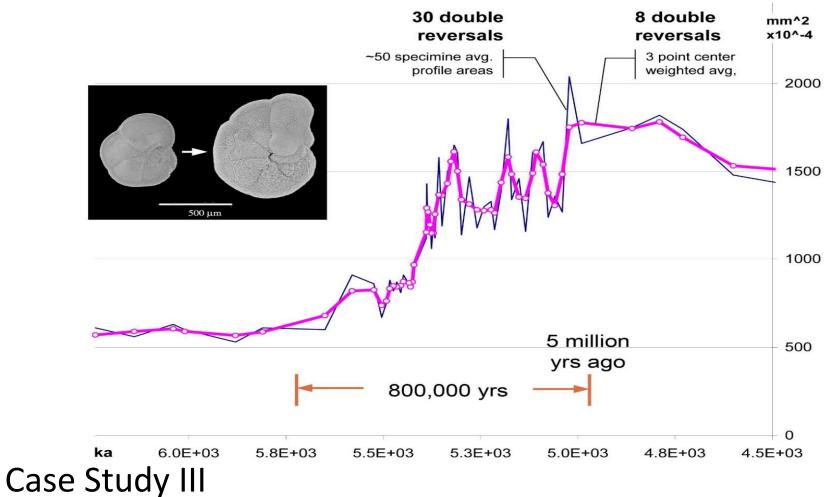
• Growing publication on Sustainability



Case Study II Data on English book and newspaper publishing



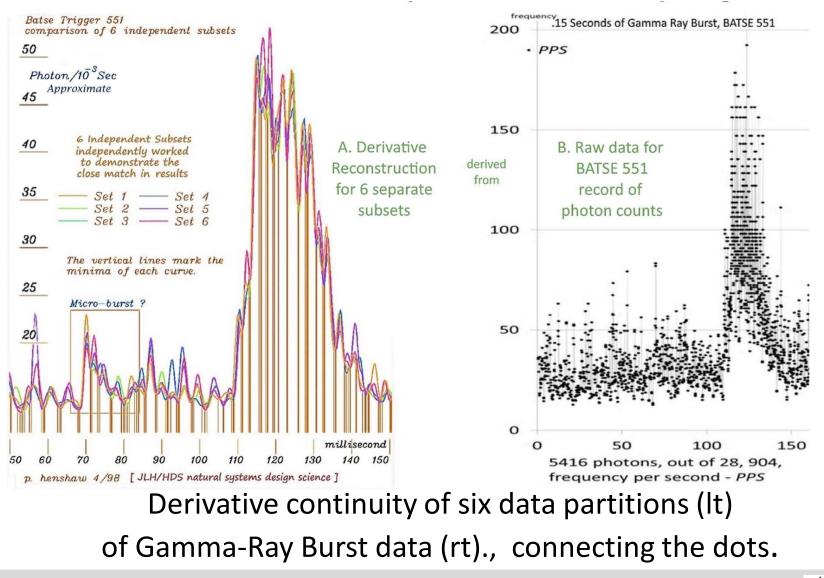
• Million-year plankton speciation



G. *tumida* plankton speciation – great spurts in size, differ from stability before and after.



• Intricate hidden continuities in Gamma Ray Burst

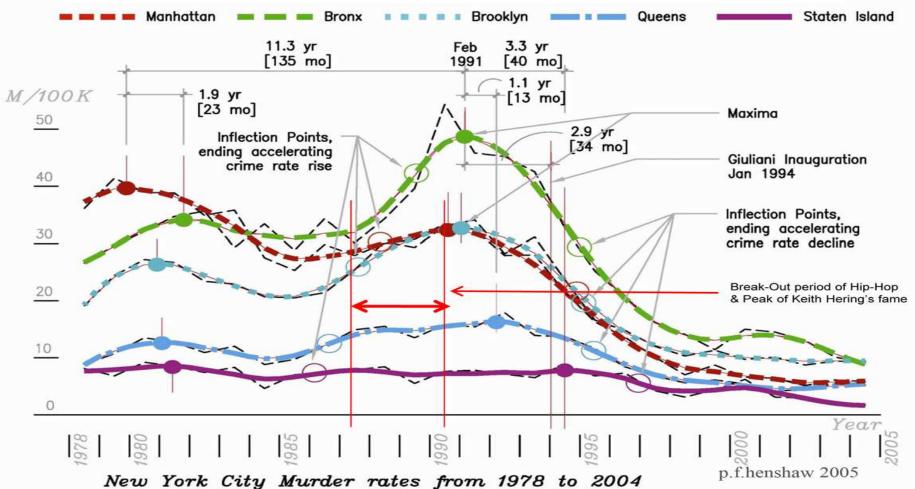


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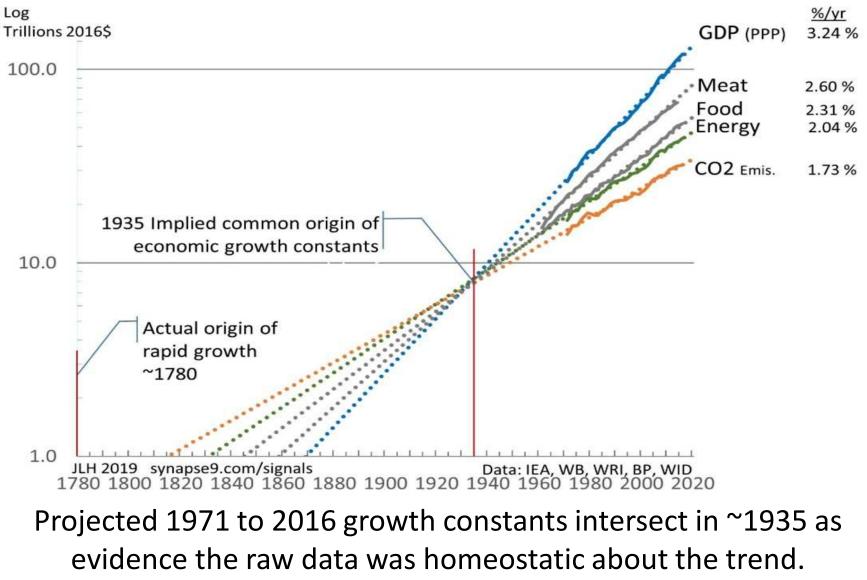
• Collapse of the Great NYC Crime Wave



NYC Murder Rates by County showing waves of drug culture violence, collapse starts in 1990.

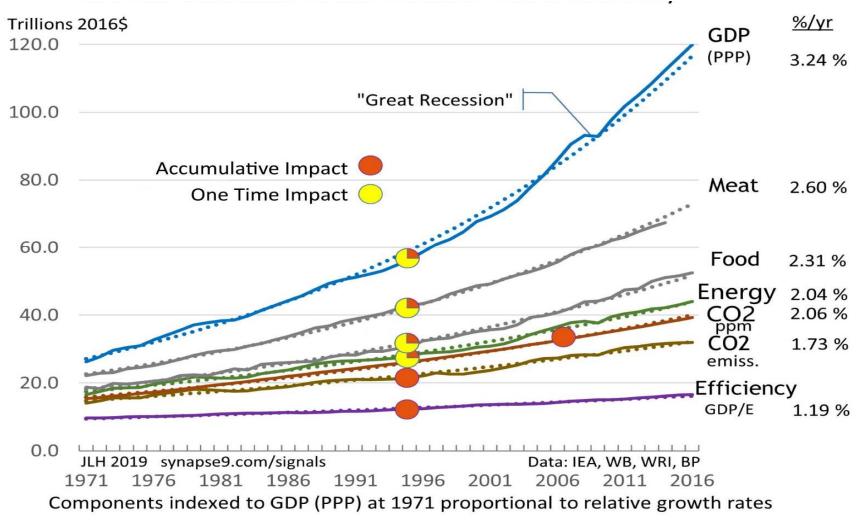


• GDP Growth constants, shown homeostatic





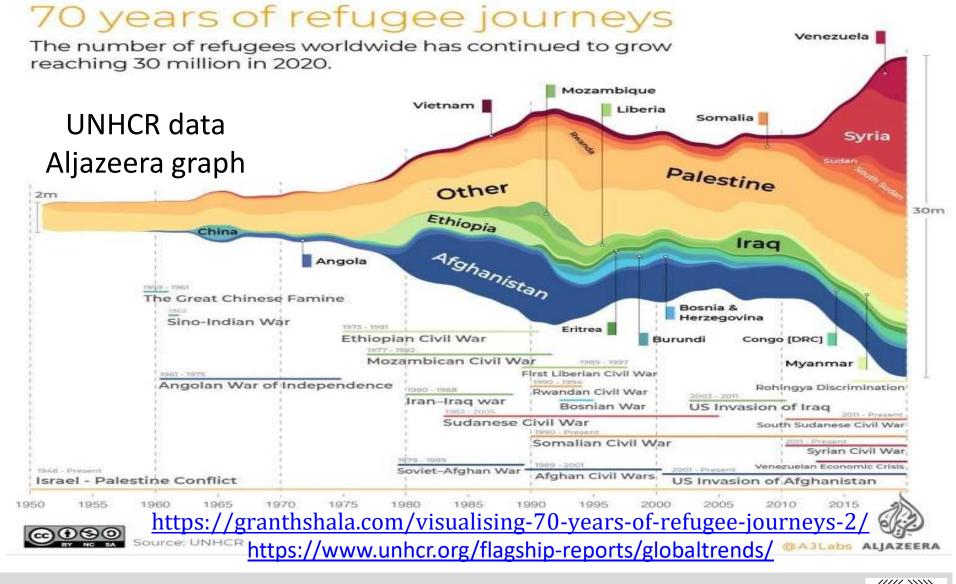
Growth constants of the world economy



Growth constant coupling of World GDP and impacts



• The 1950-2020 World Refugee Wave



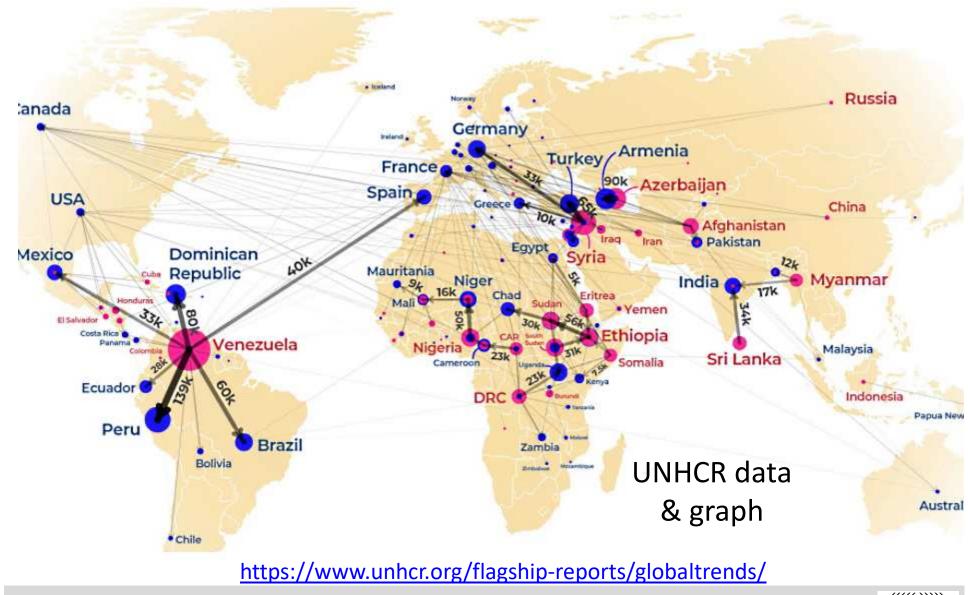
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• The 1950-2020 World Refugee Wave



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HDS Natural System Design Science

Germ – Turn Forward – Release Individuation – Maturation – Engagement ...





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