



Faculty of Design

2019 Resetting Growth Curves Ruttonsha, Perin

Suggested citation:

Ruttonsha, Perin (2019) Resetting Growth Curves. In: Relating Systems Thinking and Design (RSD8) 2019 Symposium, Oct 13-15 2019, Chicago, USA. Available at http://openresearch.ocadu.ca/id/eprint/3239/

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RSD8

2019 Chicago

Resetting Growth Curves

Perin Ruttonsha





"Almost all existing approaches to the challenge of global sustainability focus on relatively specific issues, such as the environmental consequences of future energy sources, the economic consequences of climate change, and the social impact of future energy and environmental choices. While such focused studies are of obvious importance and where most of our research efforts should be directed, they are not sufficient. They focus primarily on the trees and risk missing the forest."

(West, *Scale*, 2017, p.412)









Synchronizing

Social with

Ecological

Stockholm Resilience Centre

The Rockefeller Foundation-Lancet Commission on Planetary Health

United Nations

Doughnut Economics

Planetary Boundaries

Planetary Health

Sustainable Development

Conditions

Processes

Nature

History

Concepts

Methodologies

Balancing Among Planetary, Socio-Ecological **Systems Dynamics**

Evolving Regenerative Science, Innovation and Governance

Profiling Emergent Patterns

Reorganizing Multiscale Systems

"An evolutionary theory seeks to understand a phenomenon by describing the processes that brought that phenomenon into being and that generate the transformations it successively undergoes."

(Lane et al., Complexity Perspectives in Innovation and Social Change: From Population to Organization Thinking, 2009, p.12)

The order and dynamics of social and ecological systems can be compared on similar foundations, as constituents of a shared living world (see Fritjof Capra, Web of Life, 1996)

Challenges for sustainability have arisen primarily against the backdrop of the accelerating complexity of human life on Earth, over time, including aspects of consciousness, culture, and power (see David Christian, Origin Story, 2004)

Social network interactions generate collective productivities and economies of scale, which perpetuate super-exponential acceleration of socioeconomic activities (see Geoffrey West, Scale, 2017)

