

Faculty of Design

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Institutional literacy and new institutions and rules for integrated systems of production

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Divisions to Integrations: An Ecological and Economic Foundation Supporting Regenerative Modes of Production

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Regenerative Systemic Design Value adding, inspired by living-systems

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Introduction

1) What are some of the Rules for Production?

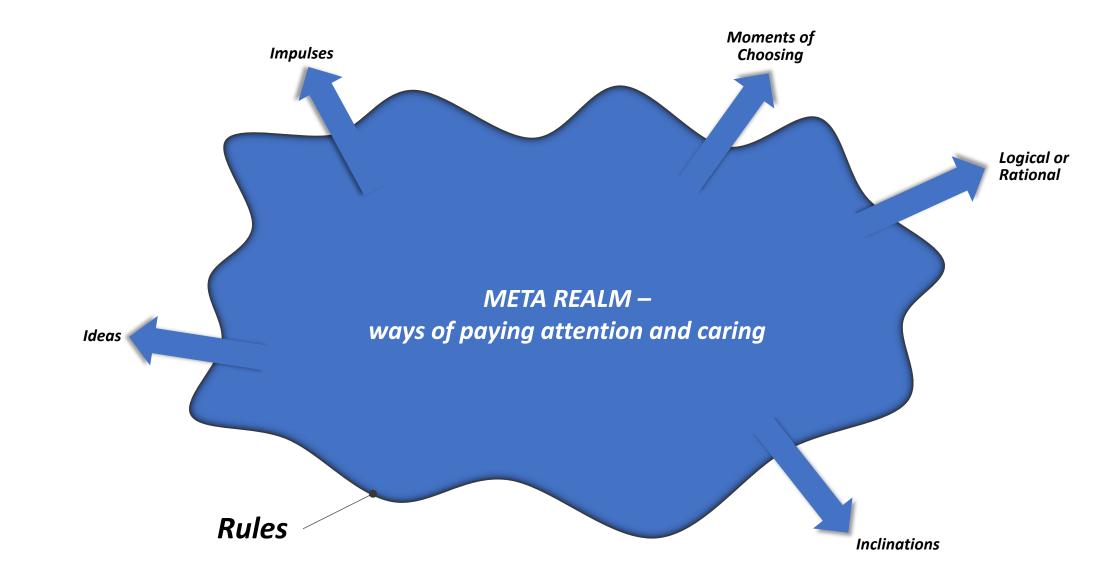
2) What are some of the META consequences of these Rules?

3) Inspirations from Living Systems

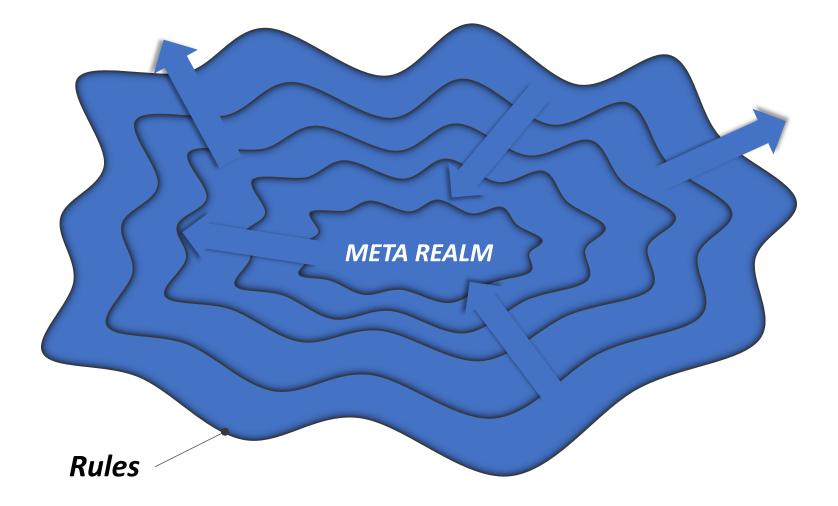
4) Some New Rules

Production is not just about organising flows of matter and energy	
What is our organisational form?	What is our purpose or goal(s)?
How big does the structure need to be?	
How many activities do we do?	How big motivate collaboration?
How we manage R&D?	How do I manage the team?
Who does what?	How do we manage I.P?
What is our business model?	
How can we be economically regenerative?	

How do we manage investments and distribution of incomes?

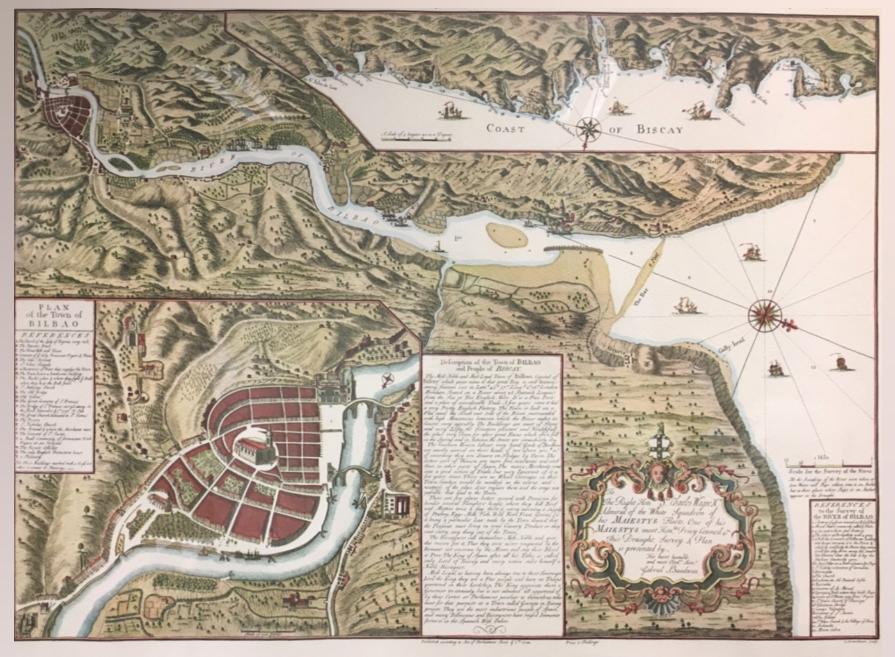


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1: What are some of the Rules for Production?

Production is Embedded in a Geography



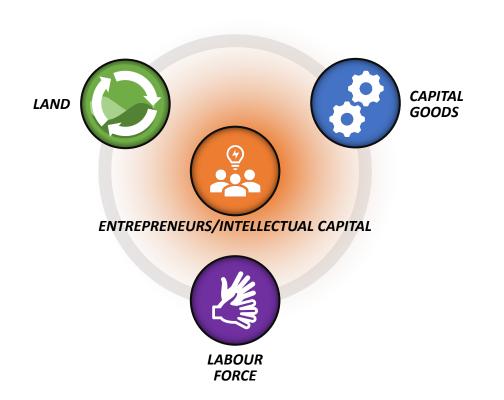
Production is Embedded in an Economy

1: (RE)Production A: Mobilising Effort

2: Distribution

B: Allocating Effort



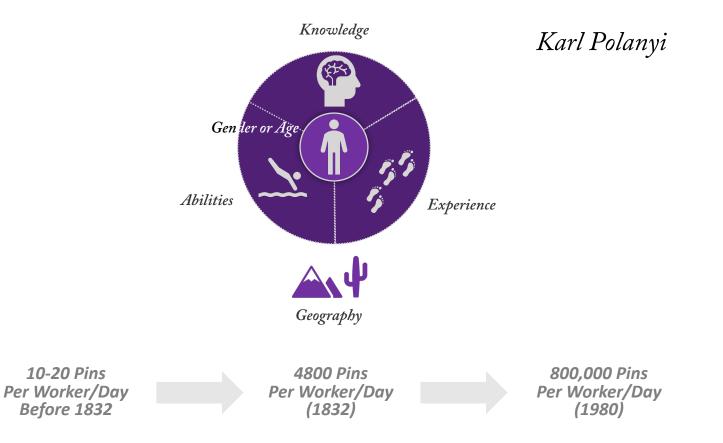


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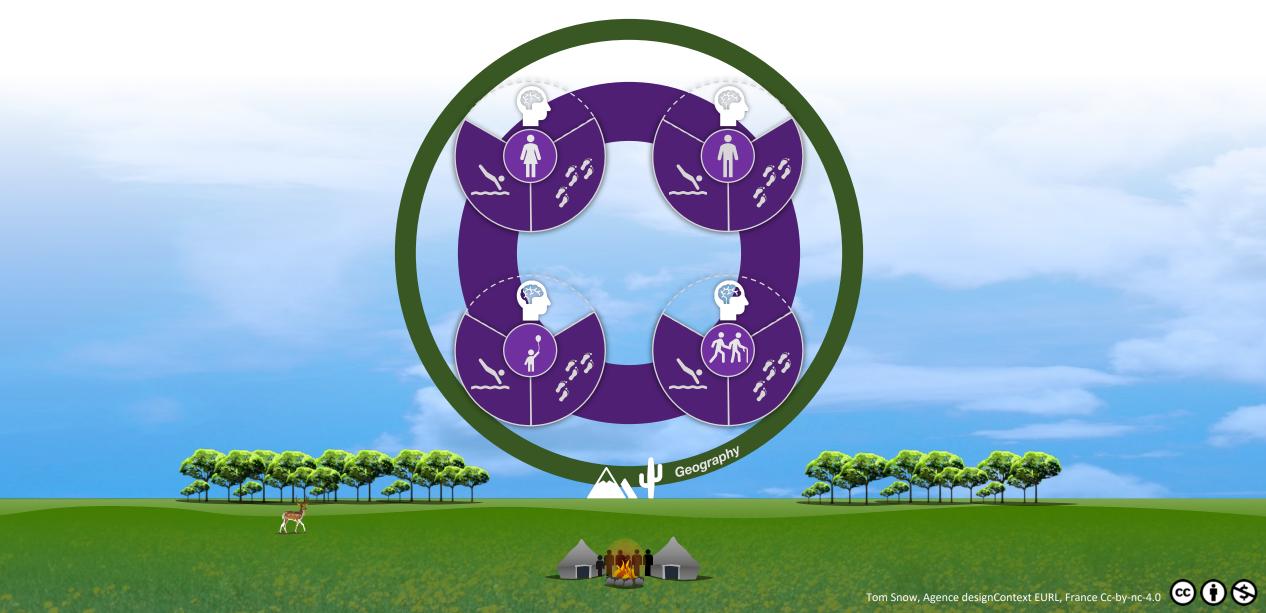
The Production Process Needs to be Organised

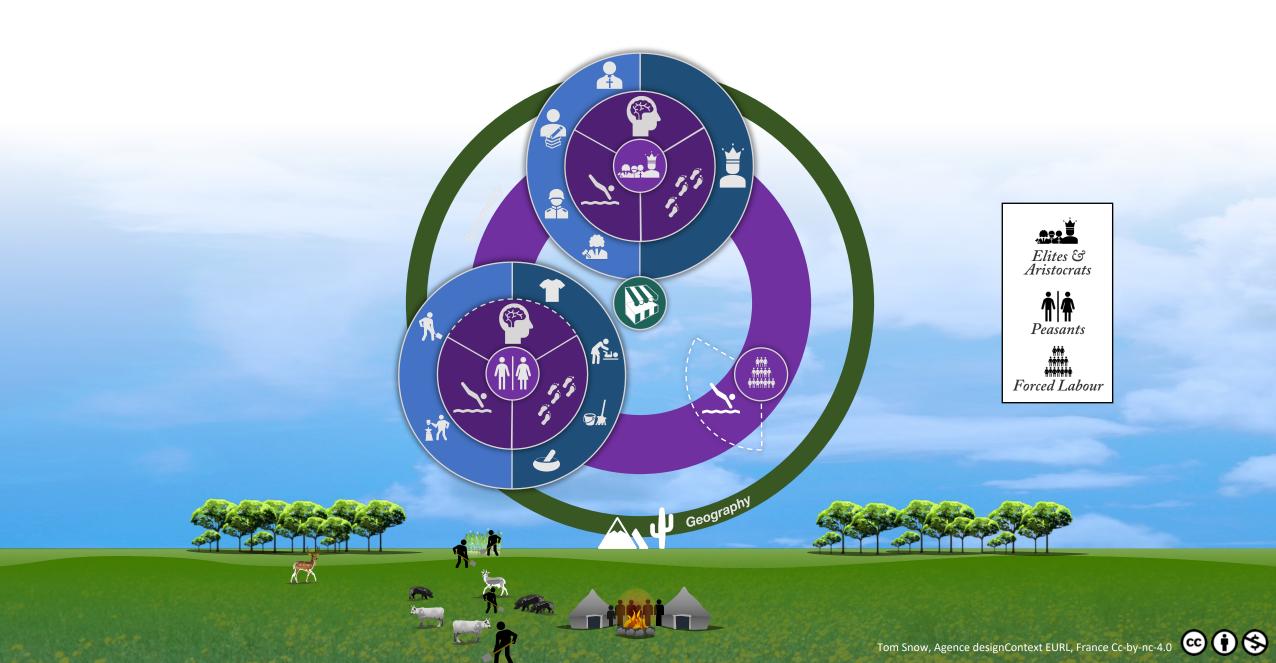
"Division of labor, a phenomenon as old as society, springs from differences inherent in the facts of sex, geography, and individual endowment..."



2: What are some of the META consequences of these Rules?

Focusing on (for this talk): A) Division of Labour





Uber Example

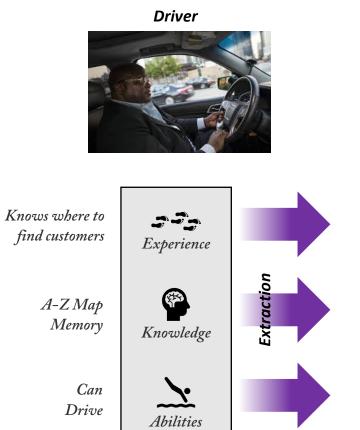
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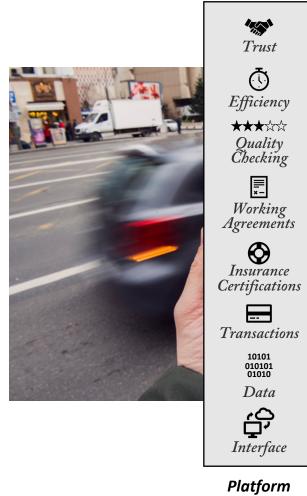
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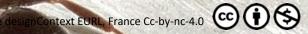


3: Inspirations from Living Systems?



Living Systems Can Use: Strength in Numbers

(9)



Evolution: Group Selection (Vs. Individual Selection) and Altruism

"Competing is intense among humans, and within a group, selfish individuals always win.

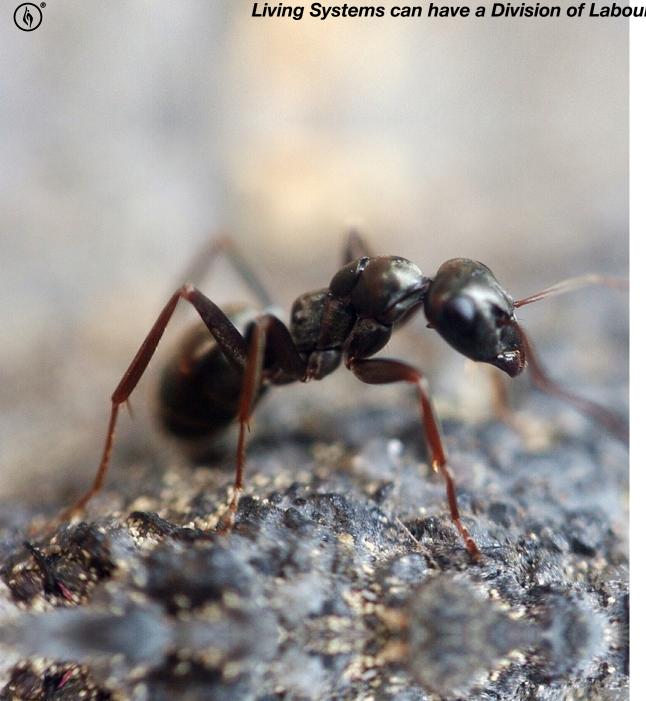
But in contests between groups, groups of altruists always beat groups of selfish individuals."

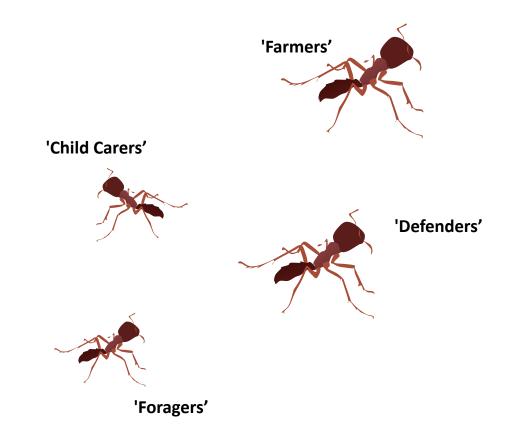
E. O. Wilson

Source: Wilson, E.O. (2012) The Social Conquest of Earth. USA: Liveright

(b)

Living Systems can have a Division of Labour : Social Segregation : Eusocial Animals





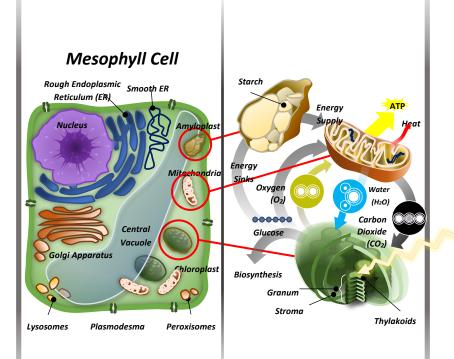
Leaf Cutter Ants

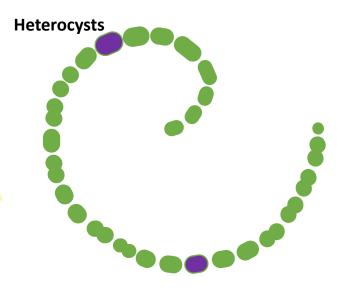
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Shoot System Root System Brain & **Nervous System**

(9)

Roots, Shoots, Brains... Organ Segregation in a Multi-Cellular Individual





Photosynthesis and Respiration

Cellular & Organelle Segregation in a Multi-cellular Individual (Plant)

Cyanobacteria (Anabaena Spp)

Single Cell Segregation between Single-Cellular Individuals

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4: What are some of the new Rules?

One of Aristotle's concepts of value was based around the concept of '*Telos*,' which attempts to:

"...identify the norms appropriate to social practices by trying to grasp the characteristic end, or purpose, of those practices." (Sandel, 2010)

And so *Telos* (from the Greek $\tau \epsilon \lambda \circ \zeta$ for "end", "purpose", or "goal") is the concept that things should and do have purpose. In this way, one can ask, what is the purpose of economics – or a business?



(Ecological) Management can replace Economies of Scale



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Stacking Functions



Renting Farm Land

Holistic Management, and Regenerative Agricultural Design

Direct Sales



Economies of Scale



Cool Bot



Cheap, portable Infrastructure

Temporary/polyvalent structures





Solar Electric Fence

Thank you for your attention