



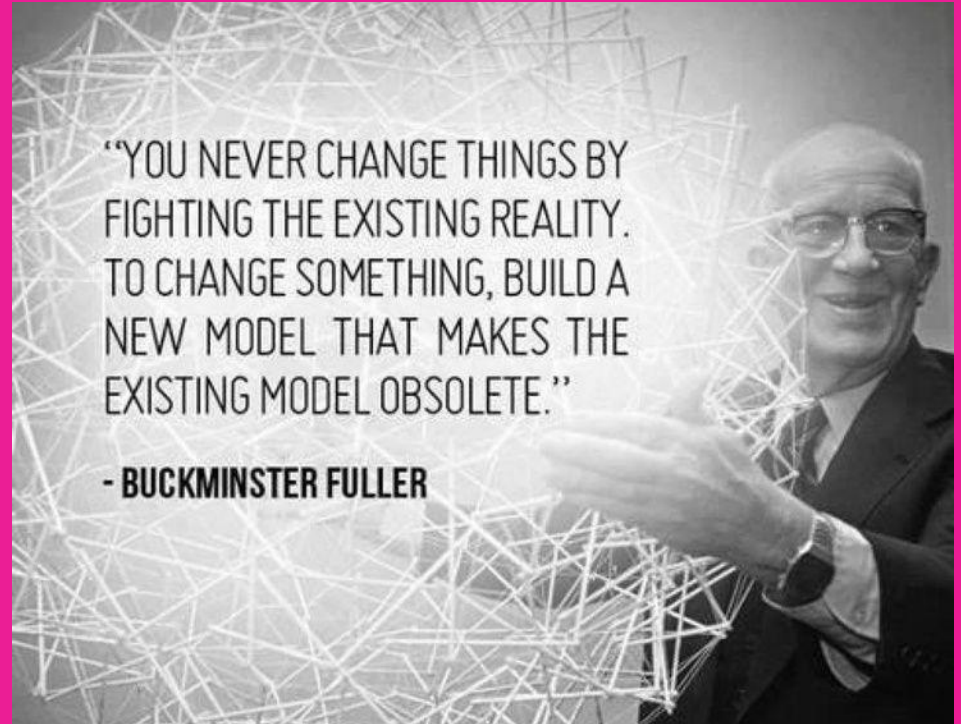
Spectrum of Sustainability

**AN INTEGRAL GUIDE TO
DISRUPTIVE INNOVATION**

Use our
Sustainable
Skills Profile
Tool so we can
get to know you.

<https://bit.ly/3jz>

[SYOS](#)



THE THREE HOLY (holistic) CAPITALS

Shifting from measuring resource progress through separate profit, to collective prosperity indexes.

Natural capital:

The stock of renewable and non-renewable natural resources that combine to yield a flow of benefits to people.



Social capital:

The networks together with shared norms, values and understanding that facilitate cooperation within and among groups.



Human capital:

The knowledge, skills, competencies and attributes embodied in individuals that contribute to improved performance and well-being.



Produced capital:

The man-made goods as well as all financial assets that are used to produce goods and services consumed by society.



1. HUMAN:
2. NATURAL:
3. SOCIAL:

All three together:
(produced, manufactured, financial, built capital)

DEVELOP

Child of Sustainability: story of survival.

My Expert Skills: **ADAPTABLE** -
RESILIENT - **RESOURCEFUL**

Thriving Against the Odds Takes:

1. Humor
2. Heartiness (empathy, trauma through positive lens)
3. Intraversion (self-awareness)
4. Extraversion social 1-1, impact and purpose



I AM **RESOURCEFUL**



I AM **RESILIENT**



SKYFARMS



I AM **ADAPTABLE**

DEFINE

“The capacity to endure”

“The ability to maintain”

“Meeting our own needs without compromising the ability of future generations to meet their own needs.”

“Doing more with Less”

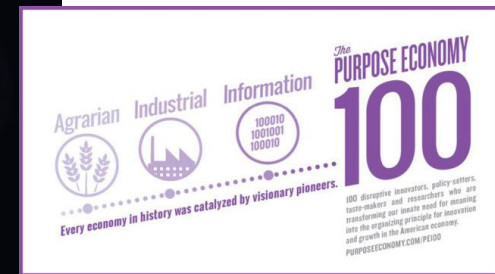
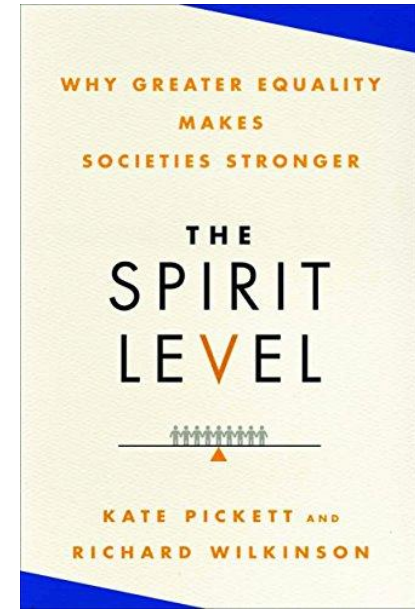
“Avoidance of the depletion of natural resources in order to maintain an ecological balance.”

“Consists of 4 Pillars: Human, Social, Economic, Environmental”

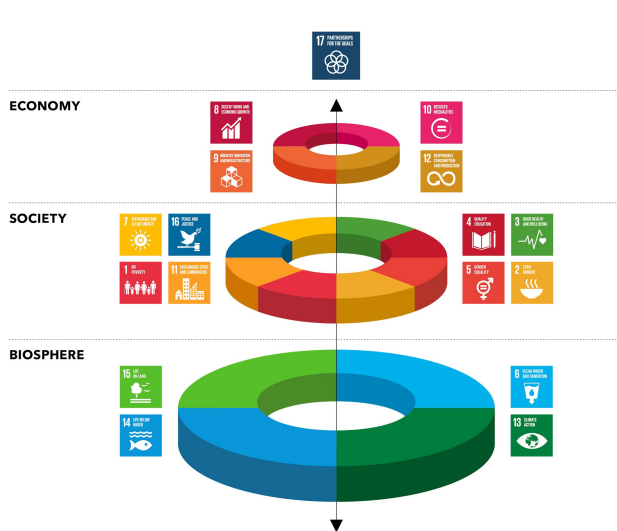


DESIGN

- Drivers →
- SDGS
(Sustainable Development Goals)
- Sustainism
- Principles
- Mindsets
- SMART CITY
- Purpose, Value, Worth



MDGS 2000-2015 (8) - SDGs 2015-2030 (17)



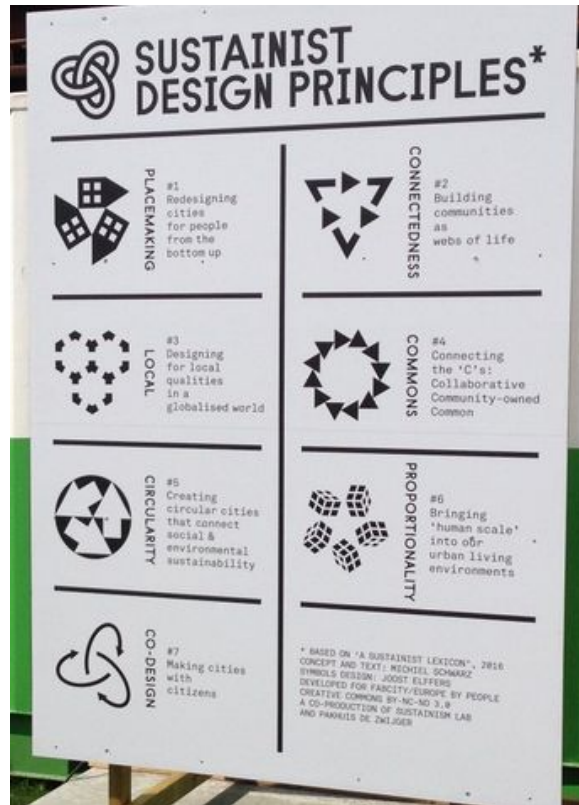
This figure illustrates the intertwined nature of social-ecological systems, and, by extension, the SDGs that are designed to effect progress within these systems. Actions on the SDGs are best informed by a systemic view and thus better delivered in partnerships that

bring a broader perspective to point solutions. As Folke, et al (2016) argue, "The focus is shifting from the environment as externality to the biosphere as precondition for social justice, economic development, and sustainability."

MEMORANDUM FOR SOURCE: Stockholm Resilience Centre (SRC) + IRI + IASA, 2016. "Resilience and Sustainability". 2016. Folke, C., S. Riggs, A. S. Haxel, S. J. Ripstein, and J. Rockström. 2016. Social-ecological resilience and long-term sustainability science. *Ecology and Society* 21(2):41.



SUSTAINISM/SUSTAINST QUESTIONS AND PRINCIPLES



SUSTAINIST DESIGN PRINCIPLES*

PLACEMAKING
#1 Redesigning cities for people from the bottom up

CONNECTEDNESS
#2 Building communities as webs of life

LOCAL
#3 Designing for local qualities in a globalised world

COMMONS
#4 Connecting the 'C's: Collaborative Community-owned Common

CIRCULARITY
#5 Creating circular cities that connect social & environmental sustainability

PROPORTIONALITY
#6 Bringing 'human scale' into our urban living environments

CO-DESIGN
#7 Making cities with citizens

* BASED ON 'A SUSTAINIST LEXICON', 2016
CONCEPT AND TEXT: MICHEL SCHWARZ
SYMBOLS DESIGN: JOOST ELFFERS
CREATIVE COMMONS BY-NC-ND 3.0
A CO-PRODUCTION OF SUSTAINISM LAB
AND PAVELIS DE OMLIJER

HOW MIGHT WE DESIGN?

HOW MIGHT WE DESIGN FOR SHARING?

HOW MIGHT WE DESIGN FOR LOCALISM?

HOW MIGHT WE DESIGN FOR CONNECTEDNESS?

HOW MIGHT WE DESIGN FOR PROPORTIONALITY?

PRINCIPLES



Design with the user



Understand the existing ecosystem



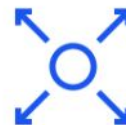
Design for scale



Build for sustainability



Be data driven



Use open source



Reuse and improve



Do no harm



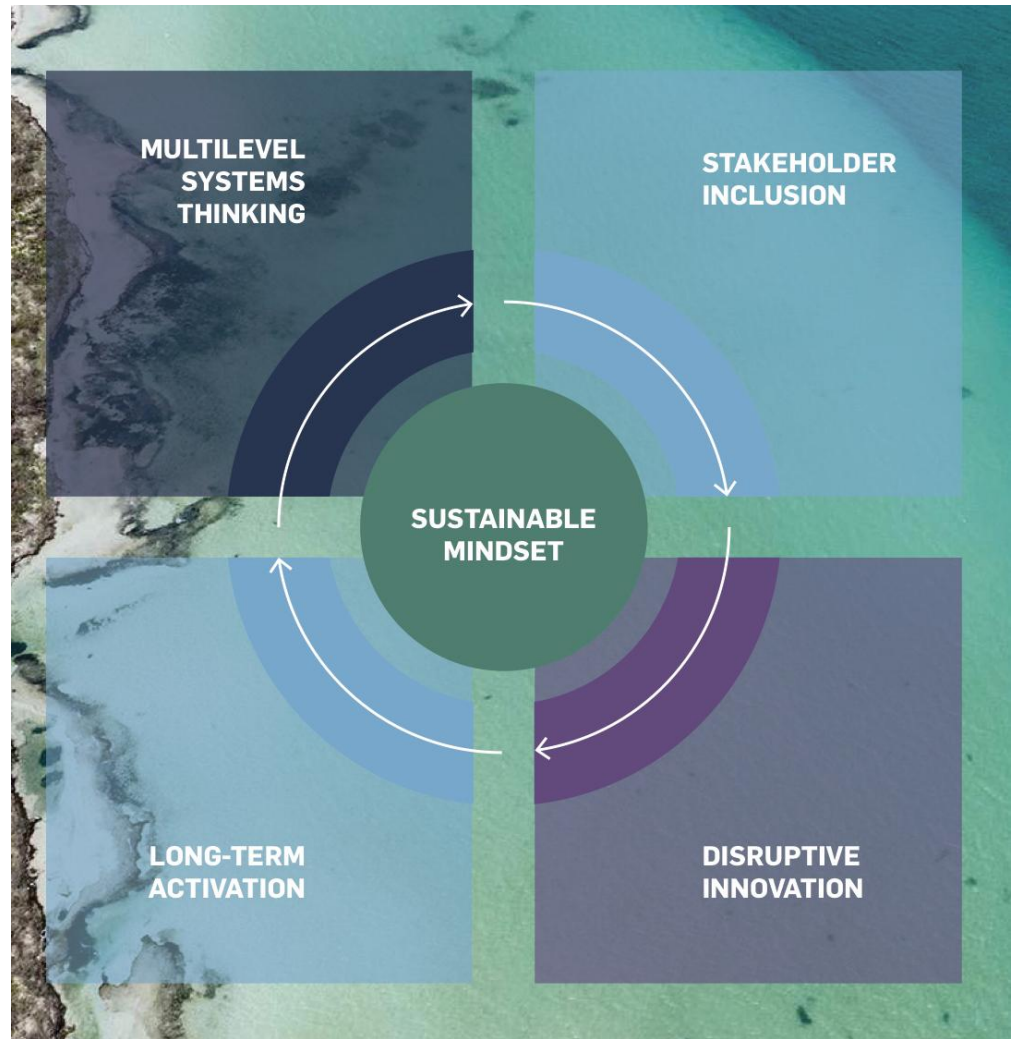
Be collaborative

EXPONENTIAL MINDSETS

1. **Accelerating** toward opportunity and anything is possible attitudes (long-term vs short-term)

2. **Disruption** technologies: Digital Era of Ai, IoT, Blockchain, 3D 12 technologies

3. **Tomorrow's** business models: Circular, Sustainable, HSN Capital vs. Profit Index



IMPLEMENTATION FRAMEWORK

- GOVERNANCE
- OPERATIONS
- ENGAGEMENT

ANCHORING AMBITION IN STRATEGY AND GOVERNANCE

PURPOSE

- In Articles of Association
- In vision/mission statement
- In company values

GOVERNANCE

- On board agendas and committees
- In board competencies and diversity
- In executive recruitment and incentive

CORPORATE STRATEGY AND GOALS

- In ambitious goals and targets integrated into a balanced scorecard
- In innovative business models
- Integrated in unit business strategies

DEEPENING INTEGRATION ACROSS OPERATIONS

PRODUCTS AND SERVICES

- In development and innovation processes
- In supply chain management and across procurement
- In Total Quality Management System

PEOPLE MANAGEMENT

- In performance management and remuneration
- In training and learning
- In company culture and communications

CORPORATE FINANCNE

- In key business investments
- In allocation of capital and financial strategy
- In managing risk and revenue

ENHANCING STAKEHOLDER ENGAGEMENT

REPORTING AND CORPORATE COMMUNICATIONS

- To investors and shareholders in financial statements
- In non-financial statements and third party reporting
- In public relations and communications

SALES AND MARKETING

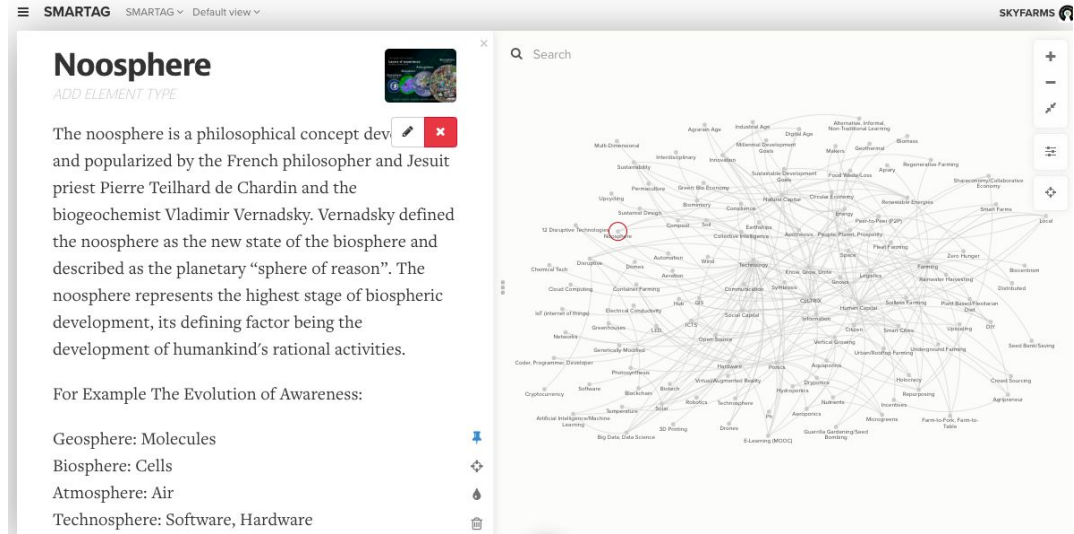
- In all brand and product promotion
- In all customer engagements
- In consumer education and behaviors

PARTNERSHIPS AND STAKEHOLDER RELATIONS

- In forming alliances to accelerate impact
- In relationships with communities and stakeholders
- In ensuring social license to operate

INTERACTIVE LEARNING TOOL

Explore, search, improve anything and everything that has to do with sustainability: the philosophy, the technology, the application, the implications, the opportunities and possibilities.



The screenshot displays the SMARTAG Noosphere interface. On the left, a text panel titled "Noosphere" provides a definition: "The noosphere is a philosophical concept developed and popularized by the French philosopher and Jesuit priest Pierre Teilhard de Chardin and the biogeochemist Vladimir Vernadsky. Vernadsky defined the noosphere as the new state of the biosphere and described as the planetary 'sphere of reason'. The noosphere represents the highest stage of biospheric development, its defining factor being the development of humankind's rational activities." Below this, it lists "For Example The Evolution of Awareness:" followed by four levels: Geosphere: Molecules, Biosphere: Cells, Atmosphere: Air, and Technosphere: Software, Hardware. On the right, a network graph visualizes connections between various concepts, with a search bar at the top and navigation controls on the right side.

GET STARTED HERE

SMART METHODOLOGY/CITIES/TECH

S: sustainable

M: modular/mobile

A: access/autonomous

R: replicable

T: technological

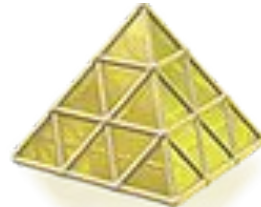


Skills of Tomorrow:

Automation/Autonomy will require doing non-routine, remedial tasks that include:

- SOCIAL INTELLIGENCE
- COMPLEX CRITICAL THINKING
- CREATIVE PROBLEM SOLVING

SOLUTIONS/SHAPES/STRUCTURES/



The Knowledge Triangle

CELTRIX
NETWORKS
DOUGHNUT ECONOMICS



CELTRIX UPGRADES

DIGITAL TRANSFORMATION



C-E-L: COMMUNICATION
-ENERGY-LOGISTICS
(MATRIX/NEXUS)

Fourth Industrial Revolution

Mechanisation-Electrification
-Automation-Digitization

Singularity

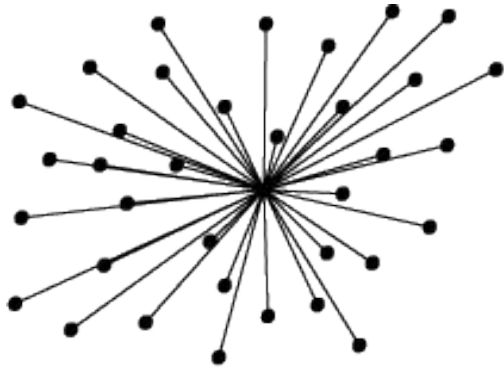
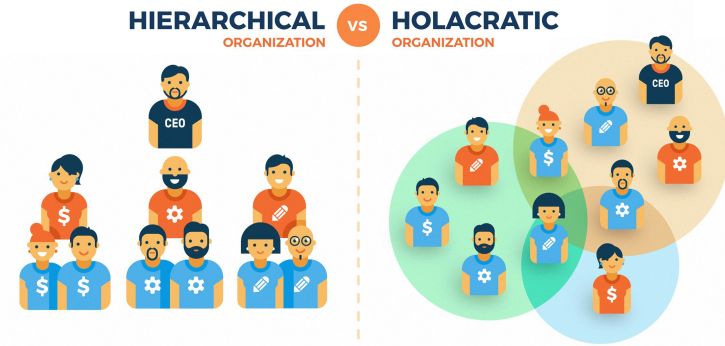
The source of information in this Mind Map comes from http://www.mckinsey.com/insights/business_technology/12_disruptive_technologies

SHIFTING NEURONS/NETWORKS

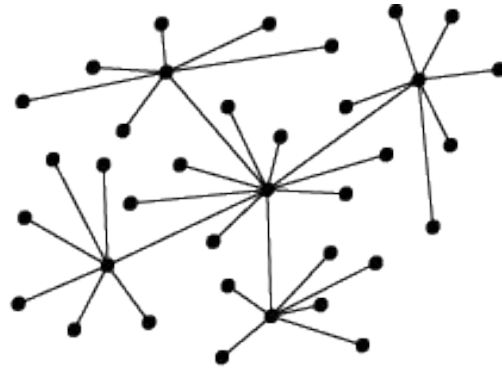
Collective Intelligence. Spiral Dynamics. Maslow.

Empathy Extension: Tribal, Religious, National, Global

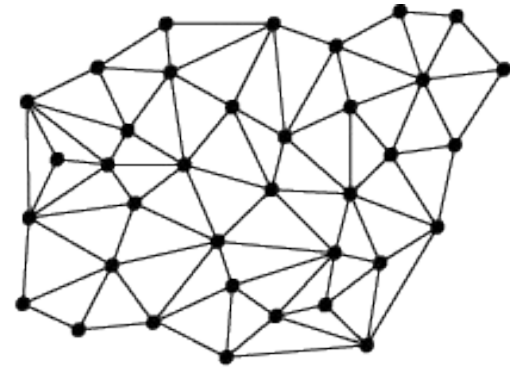
Layers of Experience/Evolution of Consciousness:
Geosphere, Biosphere, Atmosphere, Noosphere.



centralised



decentralised

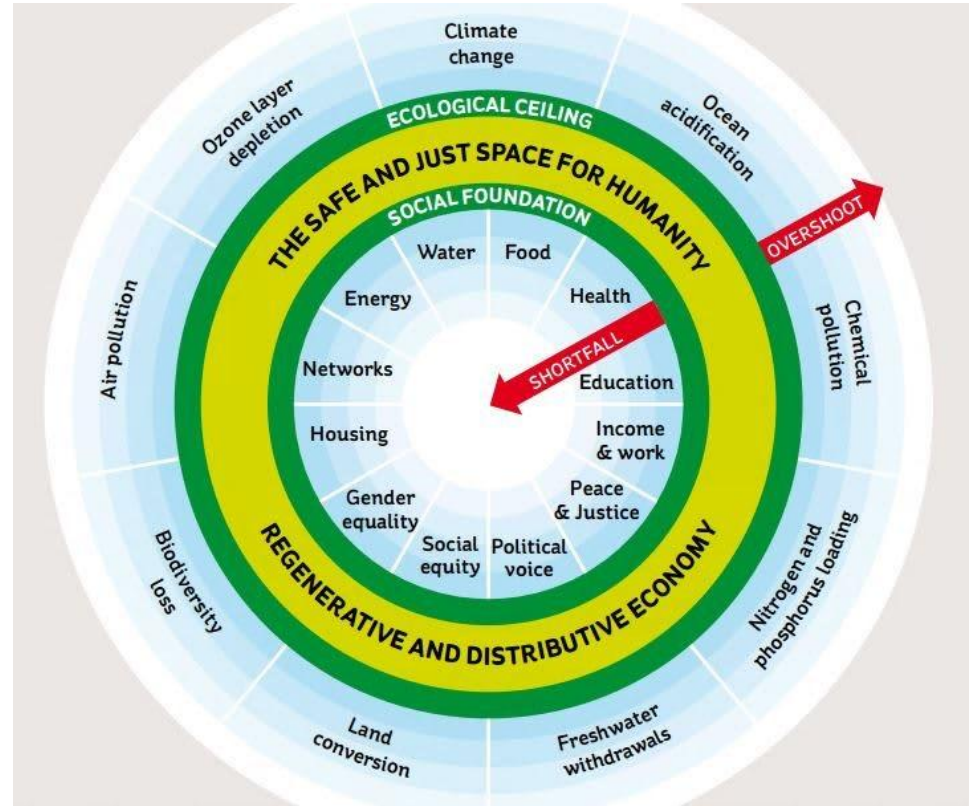


distributed

DOUGHNUT ECONOMICS

AKA: also known as

- Green economy
- Collaborative Consumption
- Shareconomy
- Bio economy
- Resource Based economy
- Regenerative - Renewable
- Conscious Capitalism
- Creative/Purpose Economy

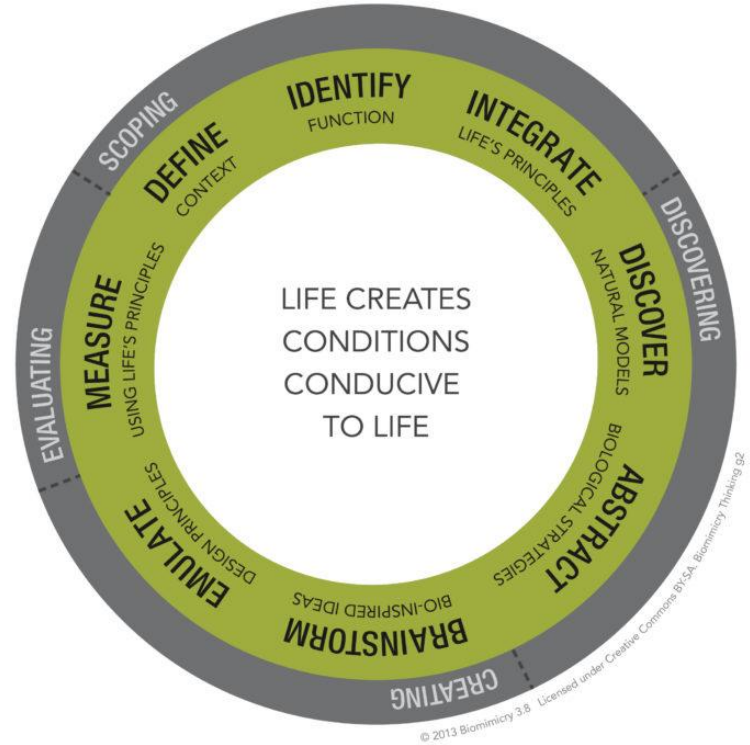


SCIENCE OF LIFE: BIOMIMICRY

JANINE M. BENYUS —

9 basic principles of biomimicry

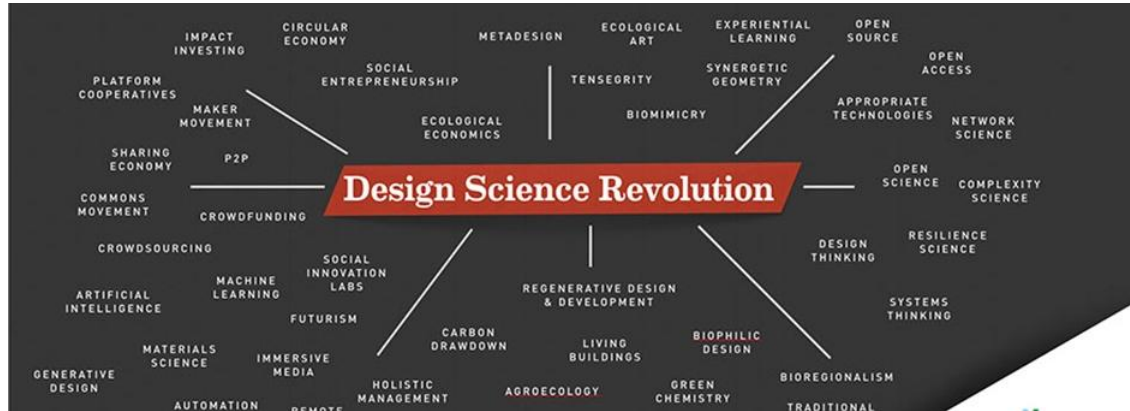
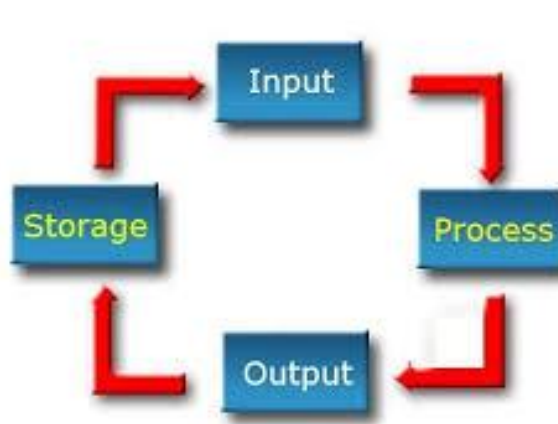
- 1 Nature runs on sunlight
- 2 Nature uses only the energy it needs
- 3 Nature fits form to function
- 4 Nature recycles everything
- 5 Nature rewards cooperation
- 6 Nature banks on diversity
- 7 Nature demands local expertise
- 8 Nature curbs excesses from within
- 9 Nature taps the power of limits



CLOSING THE LOOP

INPUTS/OUTPUTS –
conservation, resource management

The Pareto principle states that for many outcomes roughly 80% of consequences come from 20% of the causes



INNOVATION RESOURCES

1. <https://marcbuckley.earth/>
2. <https://www.nesta.org.uk>
3. <https://intelligence.weforum.org/>
4. <https://learningforsustainability.net/>
5. <https://www.sustainablelearning.com/>
6. <http://www.sustainabilitylabs.org>
7. <https://sustainabilitydefined.com>
8. <https://www.thelexicon.org>
9. <https://www.oneplanetnetwork.org>
10. <https://www.springwise.com/>
11. <https://reflowproject.eu>
12. <http://breakthrough.unglobalcompact.org>
13. <https://www.thevenusproject.com/the-venus-project/jacque-fresco/>
14. <https://www.ellenmacarthurfoundation.org/>
15. <https://www.thersa.org/>
16. <https://impacthub.net/>
17. <https://eit.europa.eu/>
18. <https://www.itu.int/net4/wsis/stocktaking/>
19. https://ec.europa.eu/info/index_en

LABS

1. <https://space10.com/>
2. <https://circulab.com>
3. <https://www.greenschool.org/>
4. <https://biomimicryinnovationlab.com>
5. <https://www.theschooloflife.com/>
6. <https://www.biopolus.net/urban-circularity/>
7. <https://doughnuteconomics.org/>
8. <https://www.coactlab.org>
9. <https://www.fablabs.io/organizations>
10. <http://opensourceecology.org>
11. <https://www.openbuildinginstitute.org>
12. <https://make.co/maker-movement/>
13. <https://www.arduino.cc>

Questions?

UnderOneSkyLife@Gmail.com

Subscribe to keep
growing with us:

<https://bit.ly/3qvec5v>



This presentation and information is made possible by the decade long work of open-source collaborative networks partnering with Under One Sky.