

A Whole Systems Approach to Understanding the Dangers and Opportunities of Technology and Artificial Intelligence

Augmenting the Self

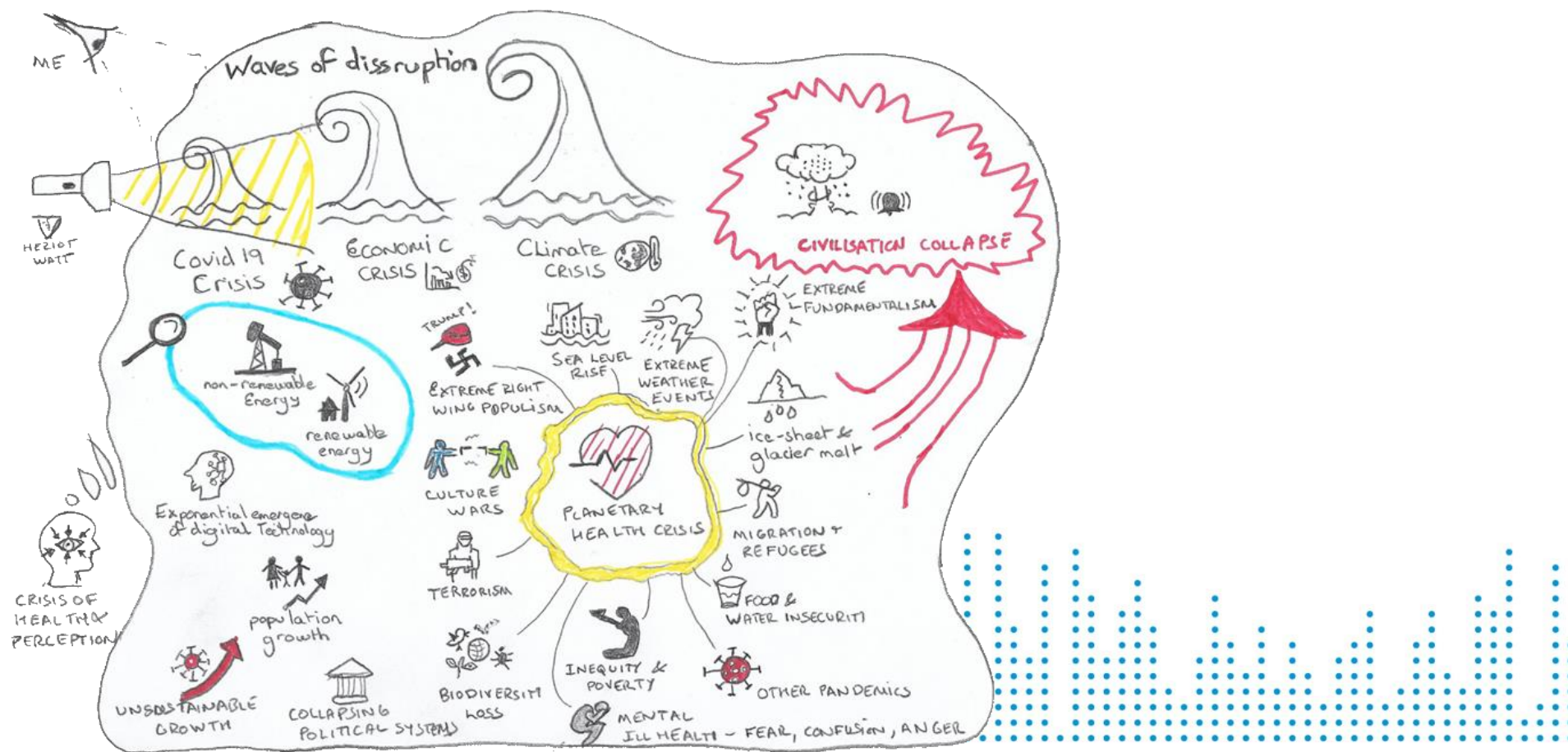
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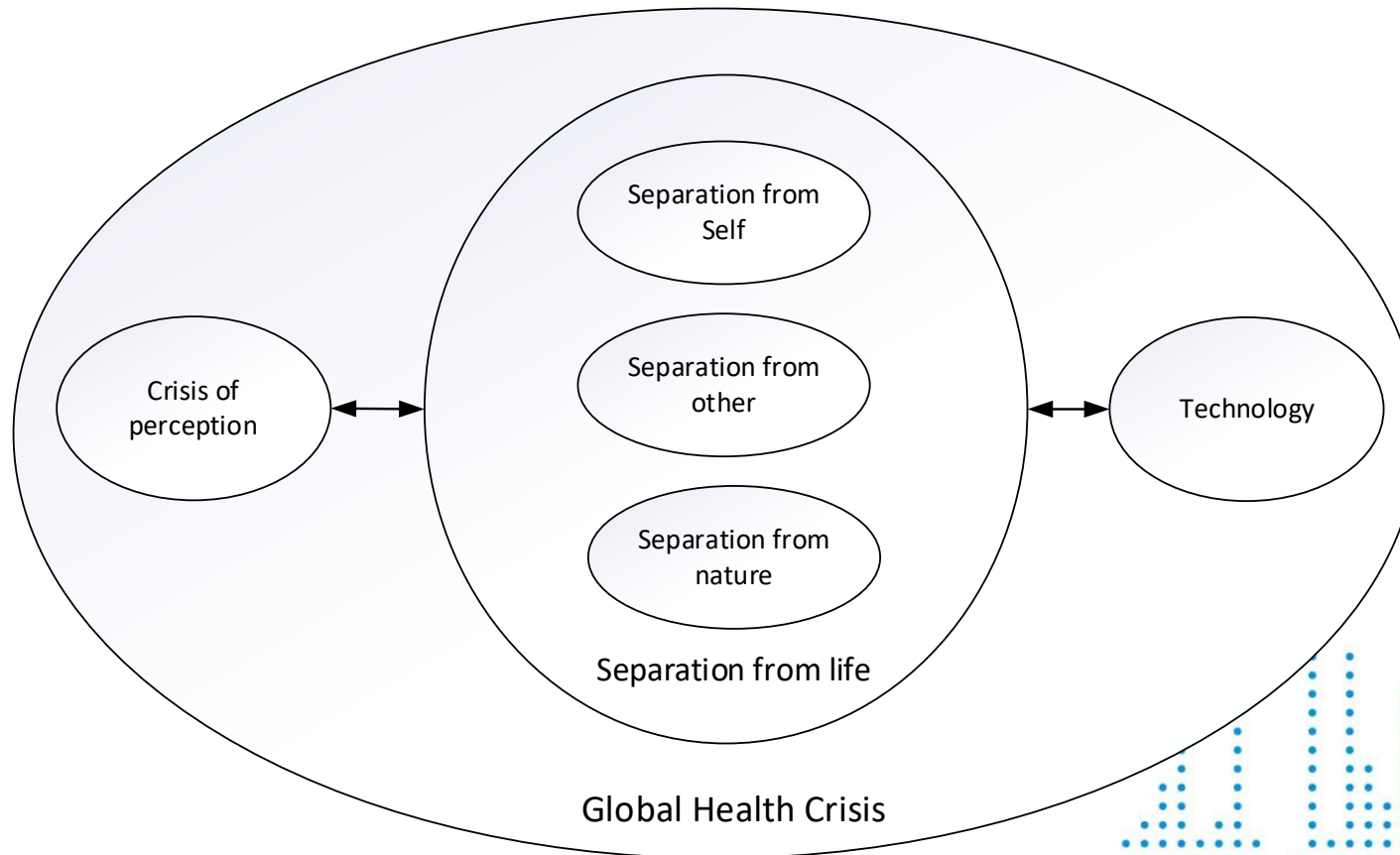
CLIMATE
INTERACTIVE

Introduction - the global health crisis

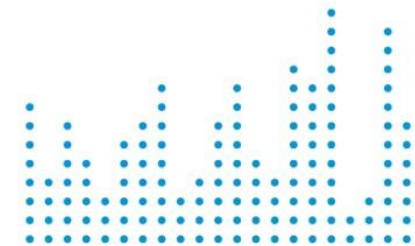
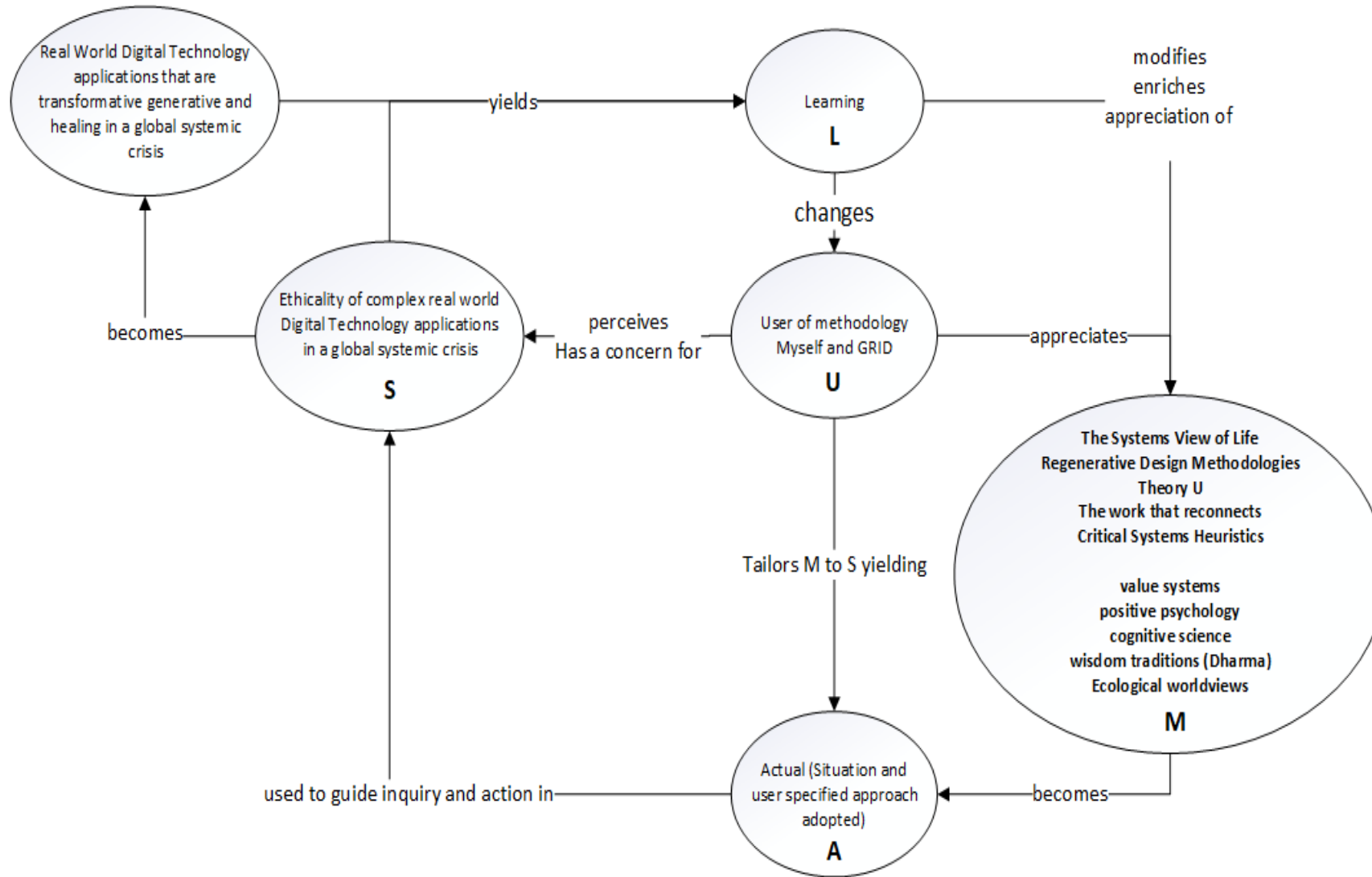
The environmental, social, and political challenges of the 21st century are interconnected and interdependent. They are systemic. “All these problems, ultimately, must be seen as just facets of one single crisis, which is largely a crisis of perception” (Capra)



A misperception of separation, leading to fragmentation, unhappiness and confusion

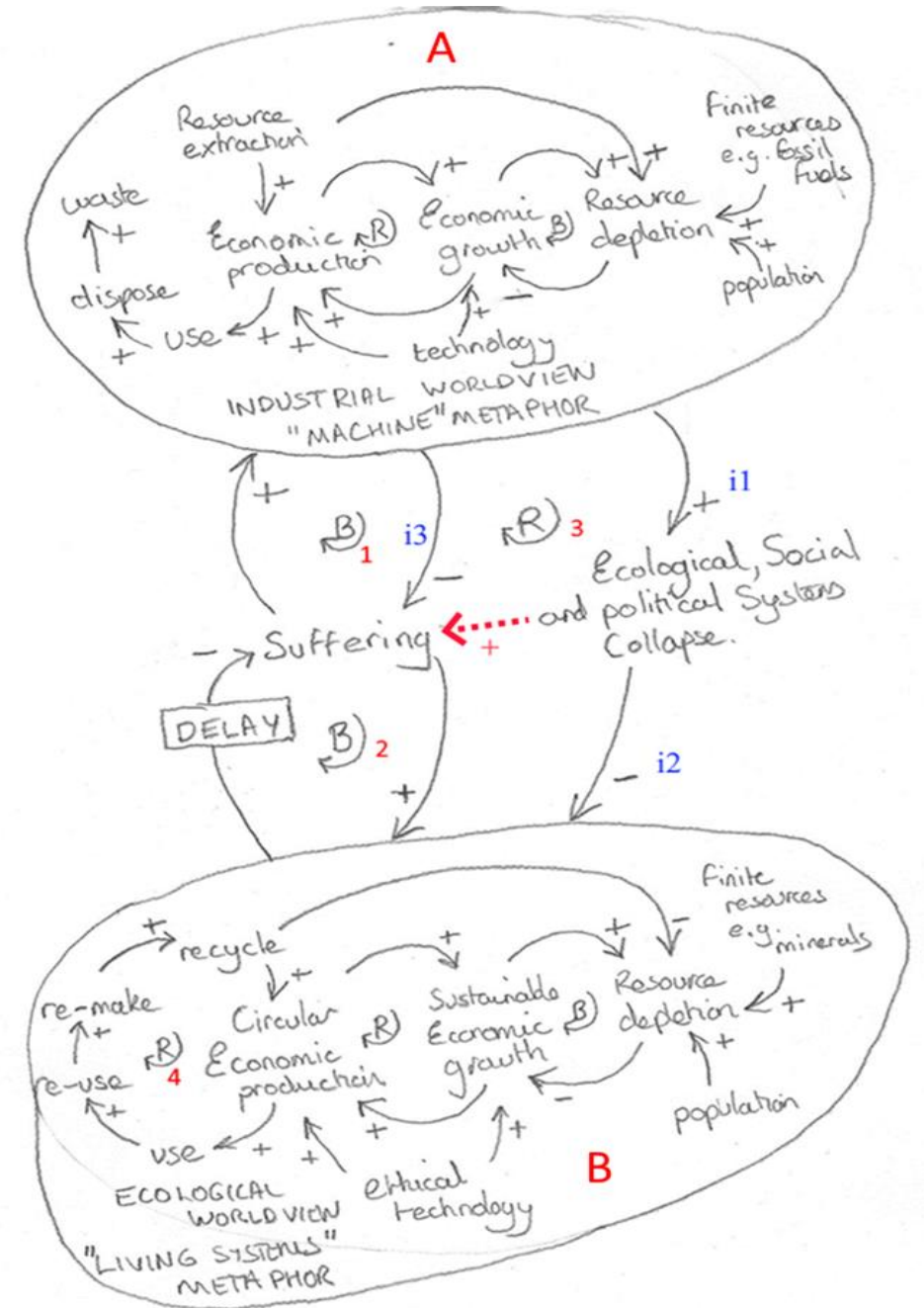


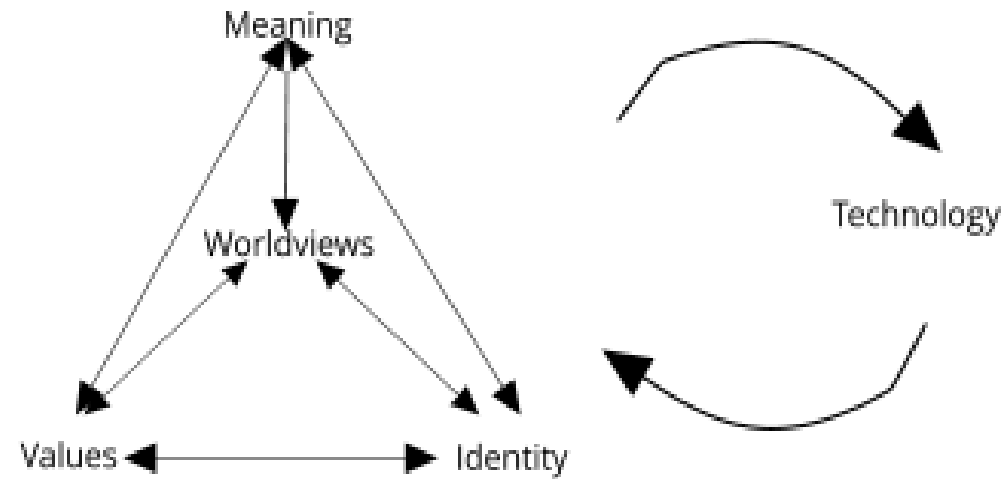
LUMAS approach



Why Have we Failed to Turn Around Every Single Environmental Issue?

The Dynamics of “Limits to Growth” and “Shifting the Burden”





- The Master and his Emissary –
We are behaving as if we had right brain damage, and technology is conditioning that further.
- The Santiago Theory of Cognition
Body and mind are two sides of the same coin
We are both conditioned and free
The process of life is a cognitive process
- What is the self? Buddhist depend
Dependant-co arising and self as emergent phenomena
Transcending the self and misconceptions.



A Shift in Worldviews, and Values



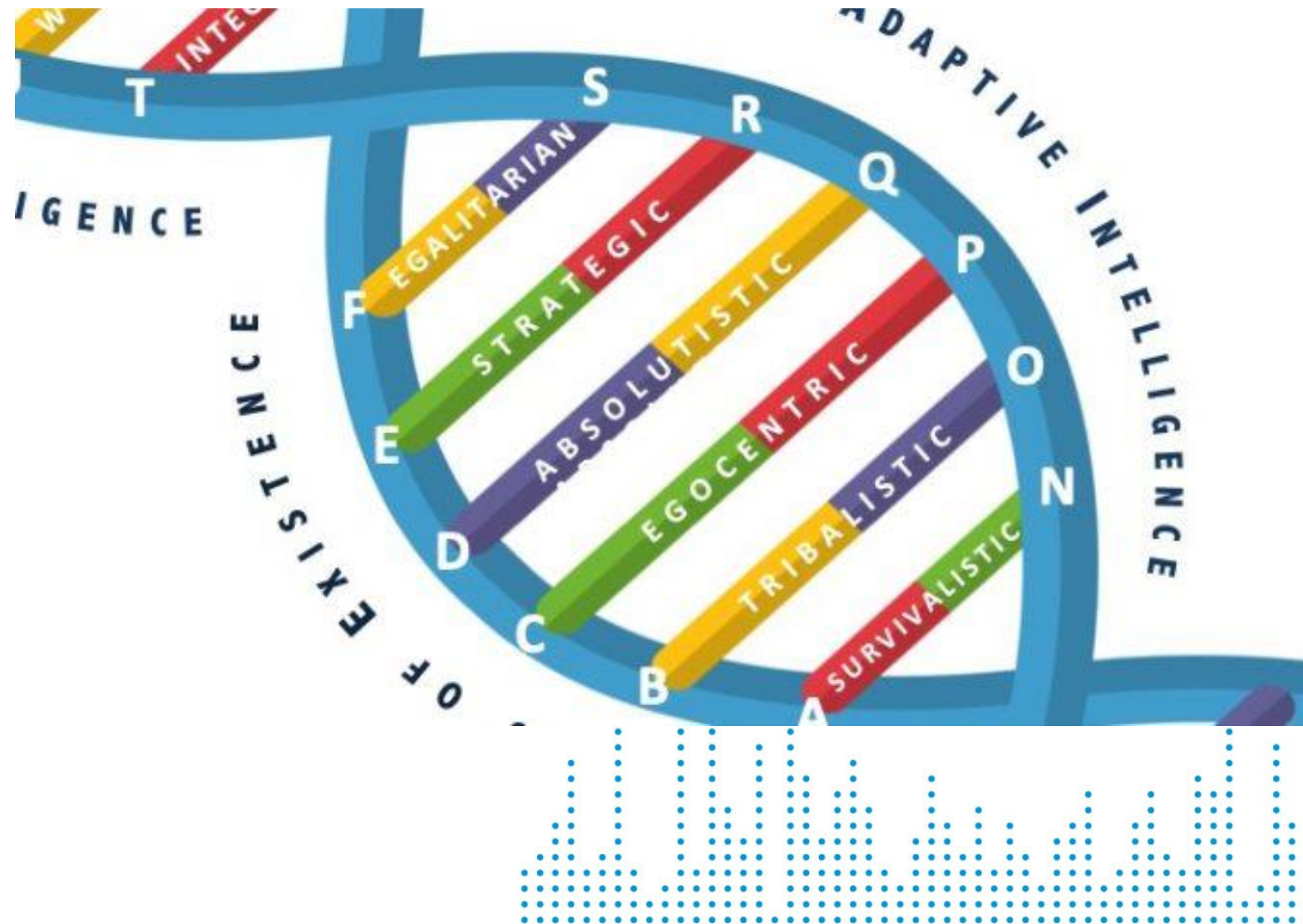
“There are solutions to the major problems of our time; some of them even simple. But they require a radical shift in our perceptions, our thinking, our values. And, indeed, we are now at the beginning of such a fundamental change of worldview in science and society, a change of paradigms as radical as the Copernican revolution”
(Capra)

But there is not just one outdated worldview and one new worldview,
there is a holarchy of worldviews!



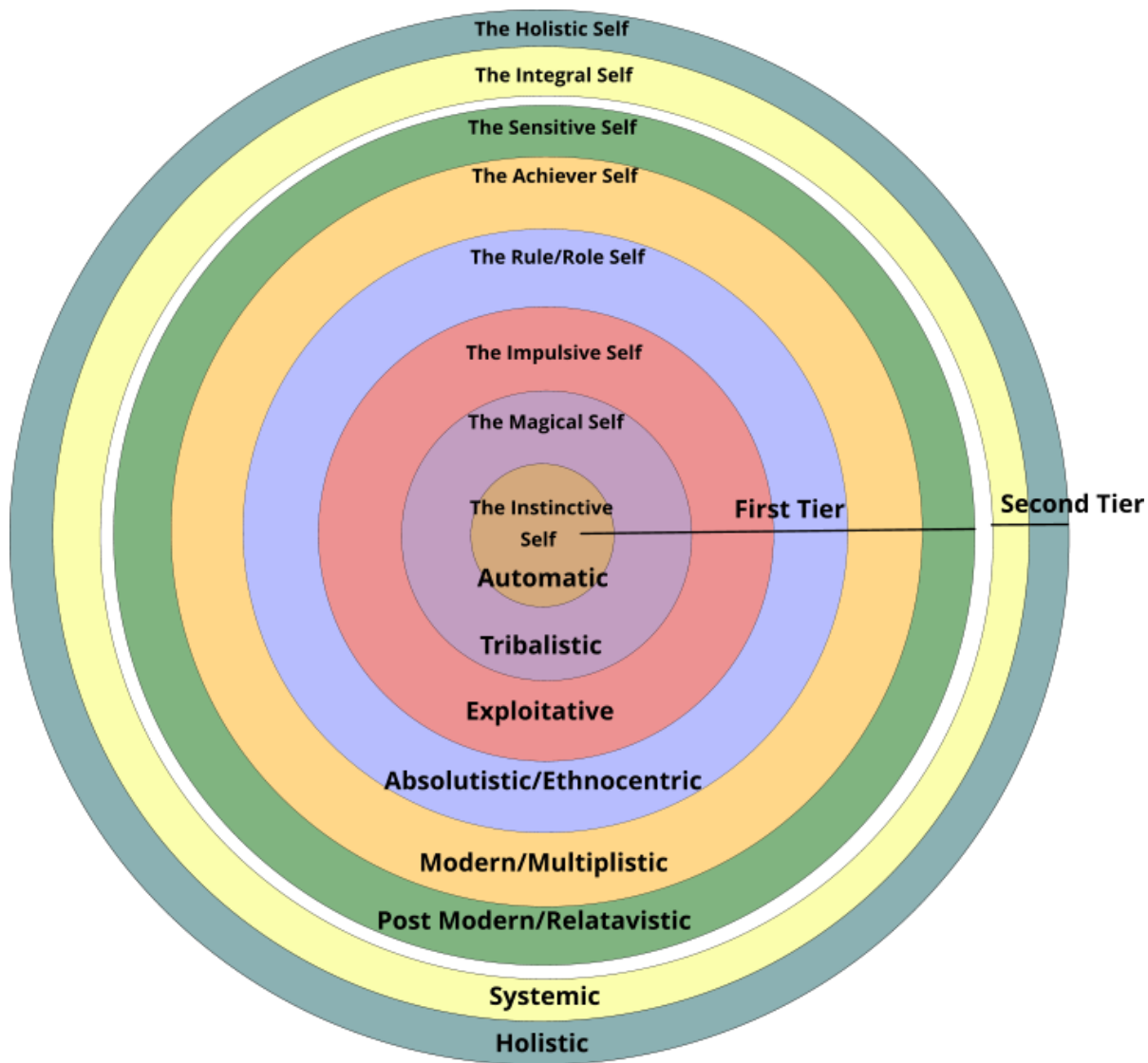
Human Evolutionary Psychology

Researcher(s)	Lens of Human Evolution
Maslow	Needs
Gebser	Worldviews
Paiget	Cognitive
Perry, Knefelcamp	Intellectual
Graves, Beck, Cowen	Values
Kohlberg, Gilligan	Morals
Loevinger	Self-identity
Fowler	Spirituality
Cook-Greuter, Kegan	Leadership
Ken Wilber	Integral Theory
Jenny Wade	Integral Theory



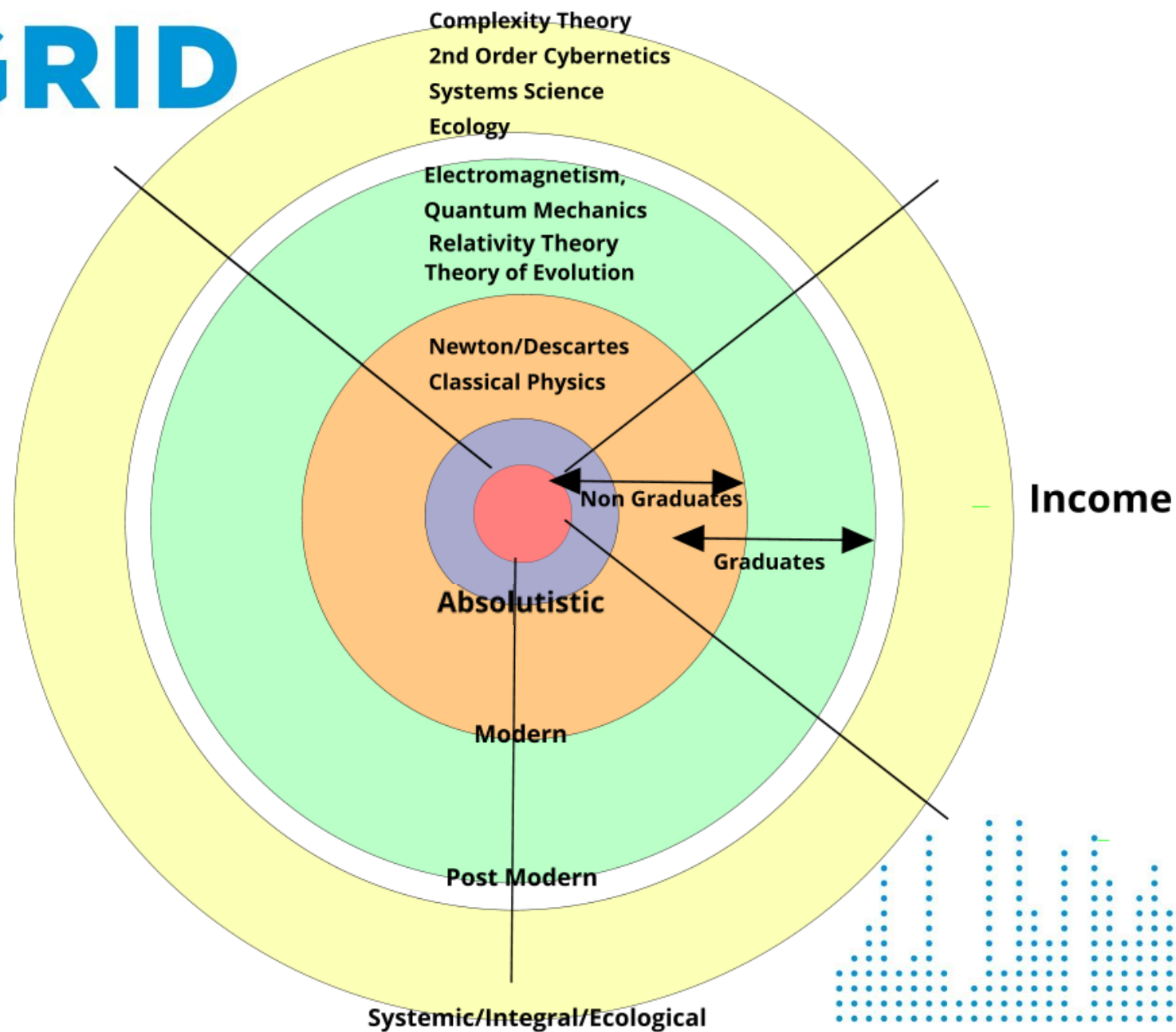
The “Momentous Leap” (Clare Graves)

Healthy and Unhealthy Expression

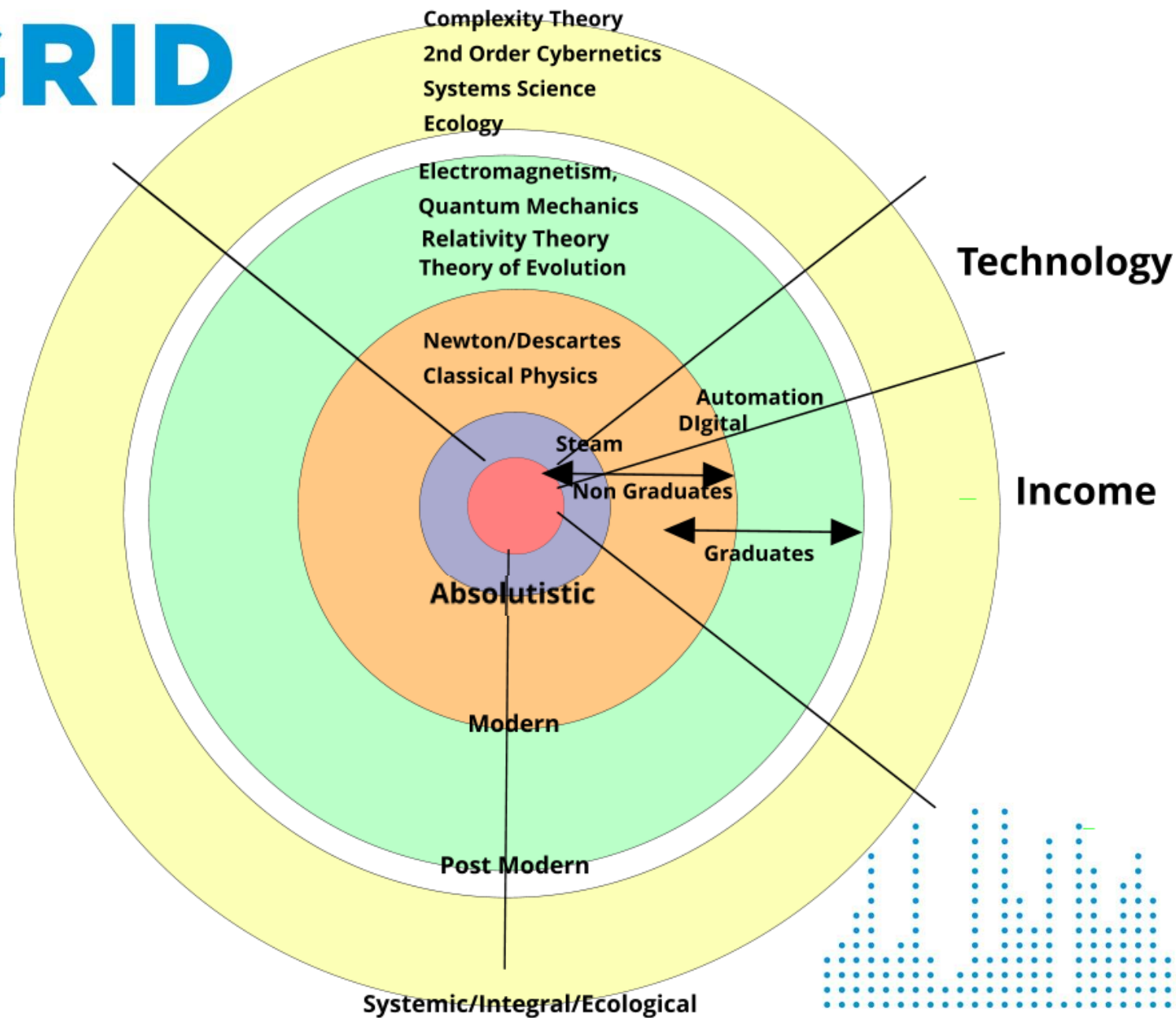


Level	Level of concern	What it gives us	Its unhealthy extremes
Systemic/Ecological	All of life	Deep Ecology, Integration, health, awareness of other levels in self and others	A certain level of arrogance?
Post Modern Relativistic	All of us 4 th person perspective	Environmental and social justice movements	Extreme relativism, criticism and inaction.
Modern	All of us/world centric	Science, Technology, commerce.	Money only matters, Ecological destruction, Disenchantment
Absolutistic/Ethnocentric	My group	Law and order, Regulation, justice, purpose.	Fundamentalism, Terrorism (All religious groups including even Buddhism)
Exploitative	Me	Power, drive, pushes things forward	Dictatorships, gang violence, egotism, narcissism
Tribalistic	Clan	Sense of Sacred, Enchantment, Mystery, Spiritual wisdom	Superstition and Magical Thinking

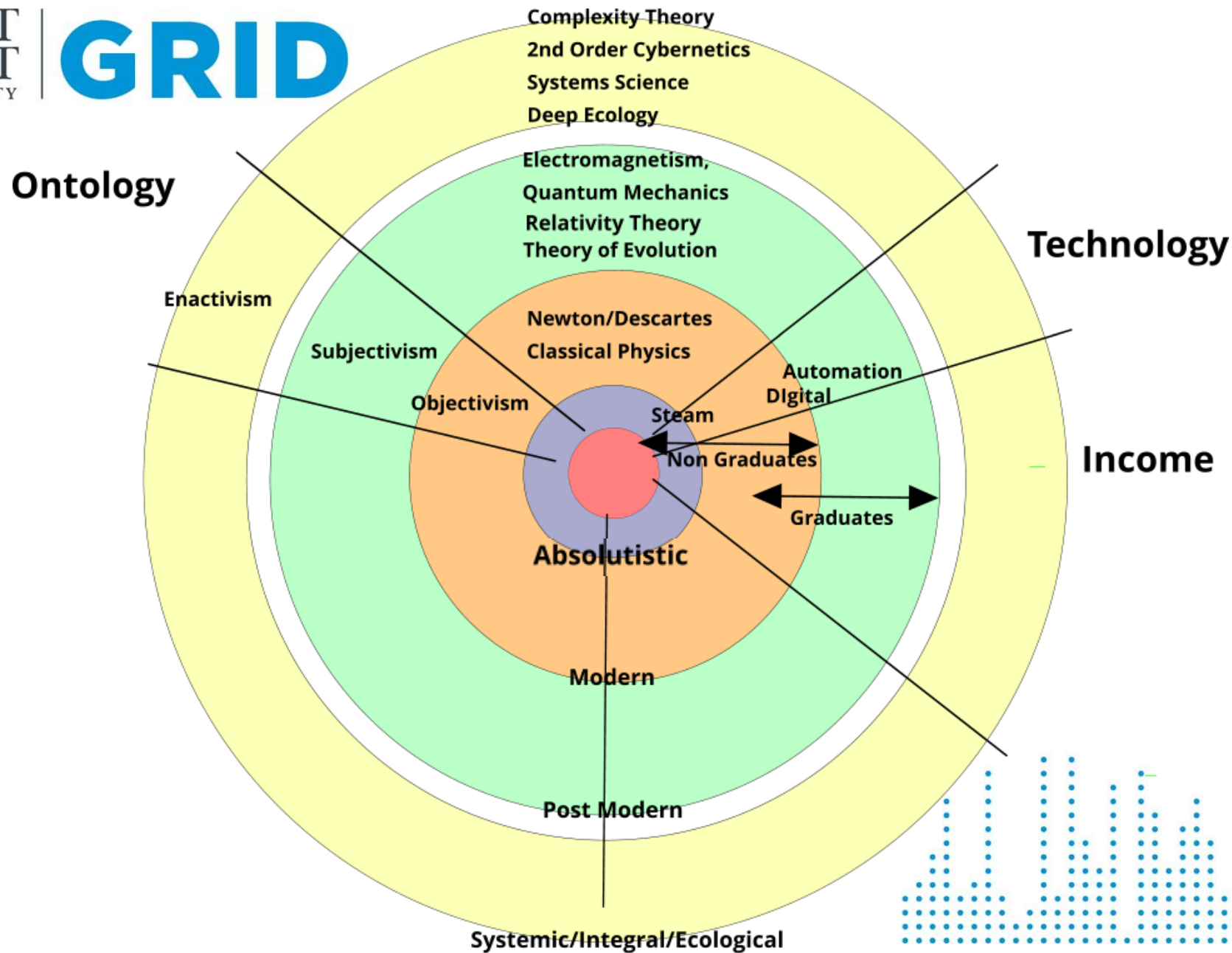
SD Value System Levels Scientific Paradigm



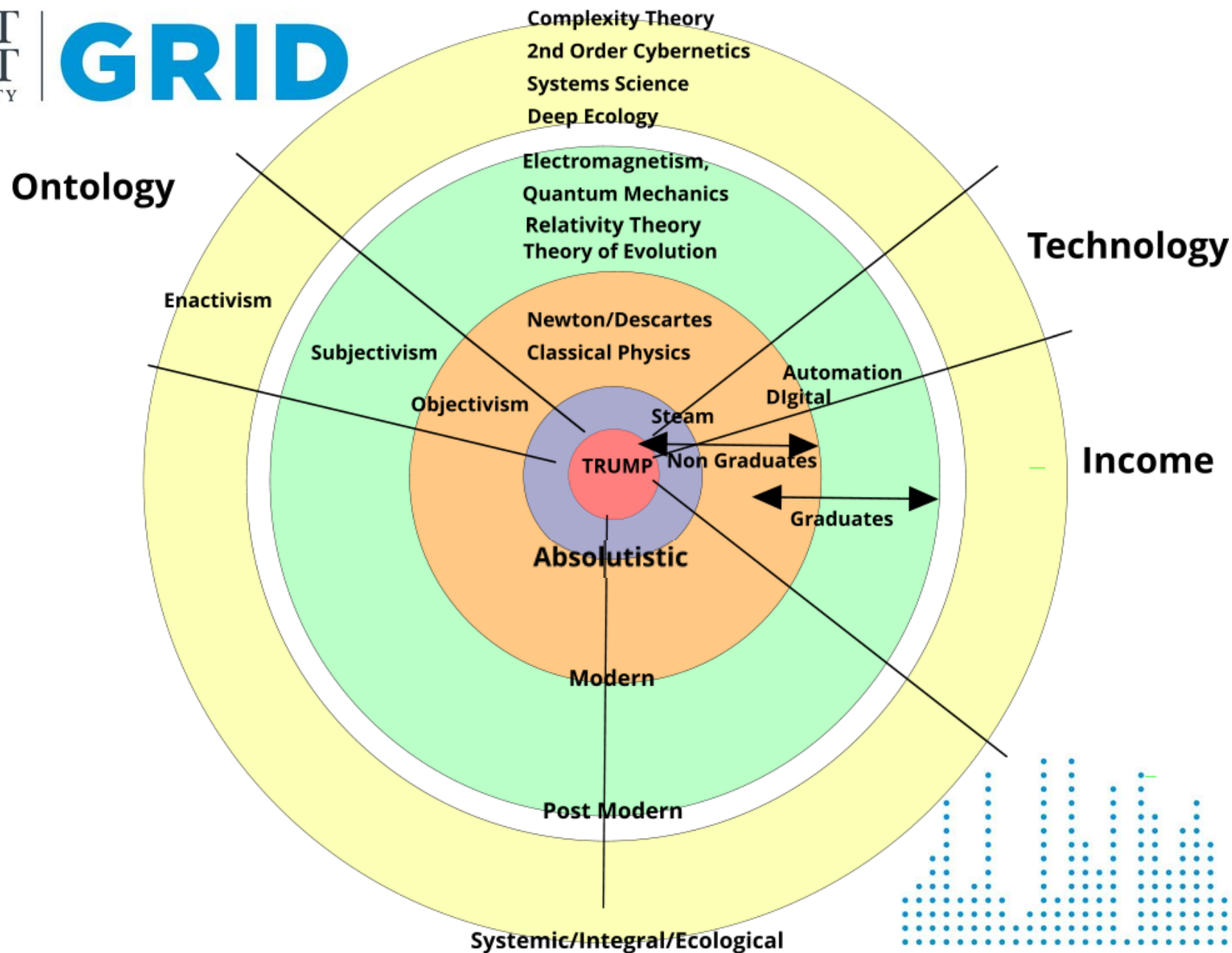
SD Value System Levels Scientific Paradigm



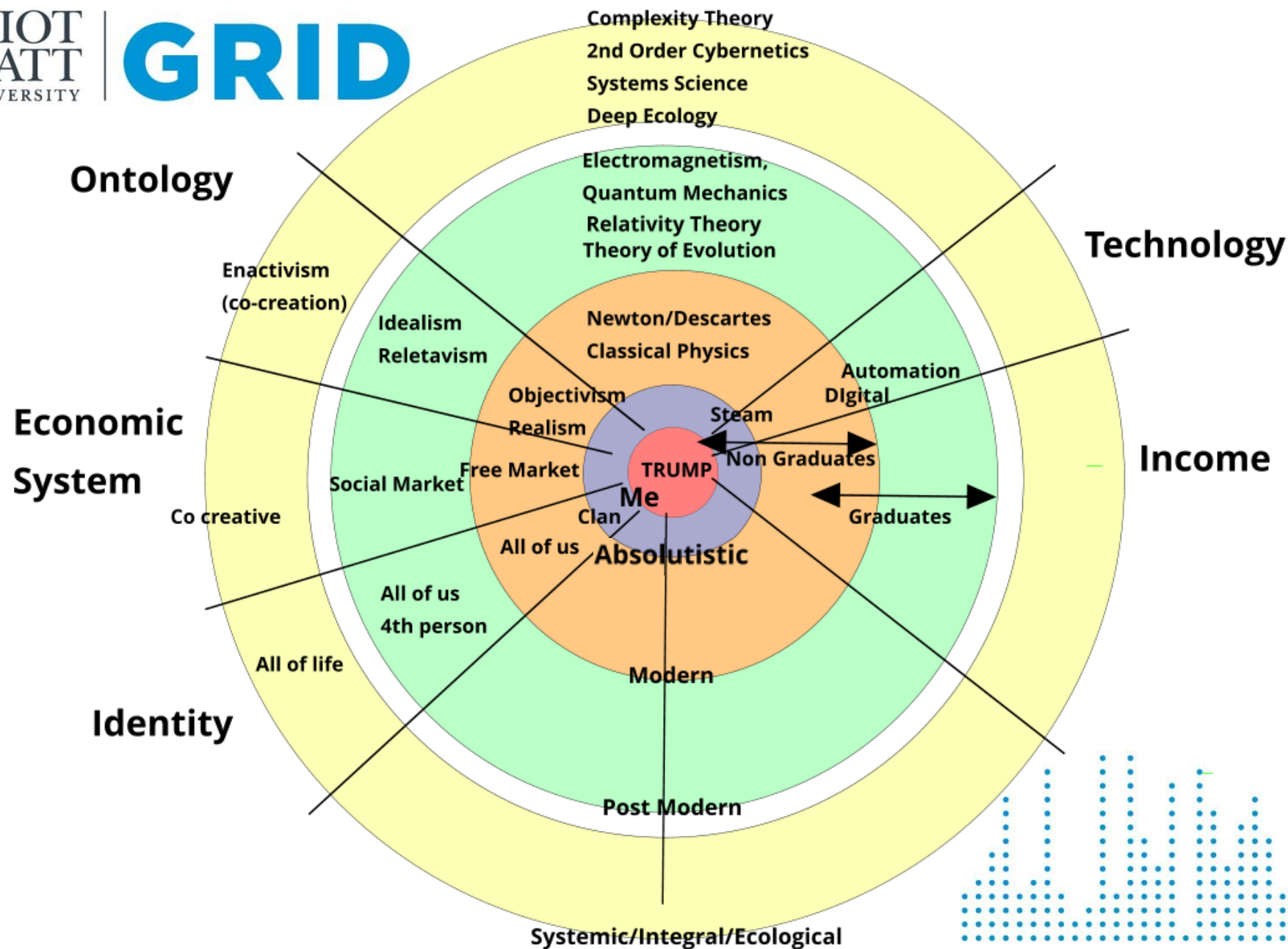
Scientific Paradigm



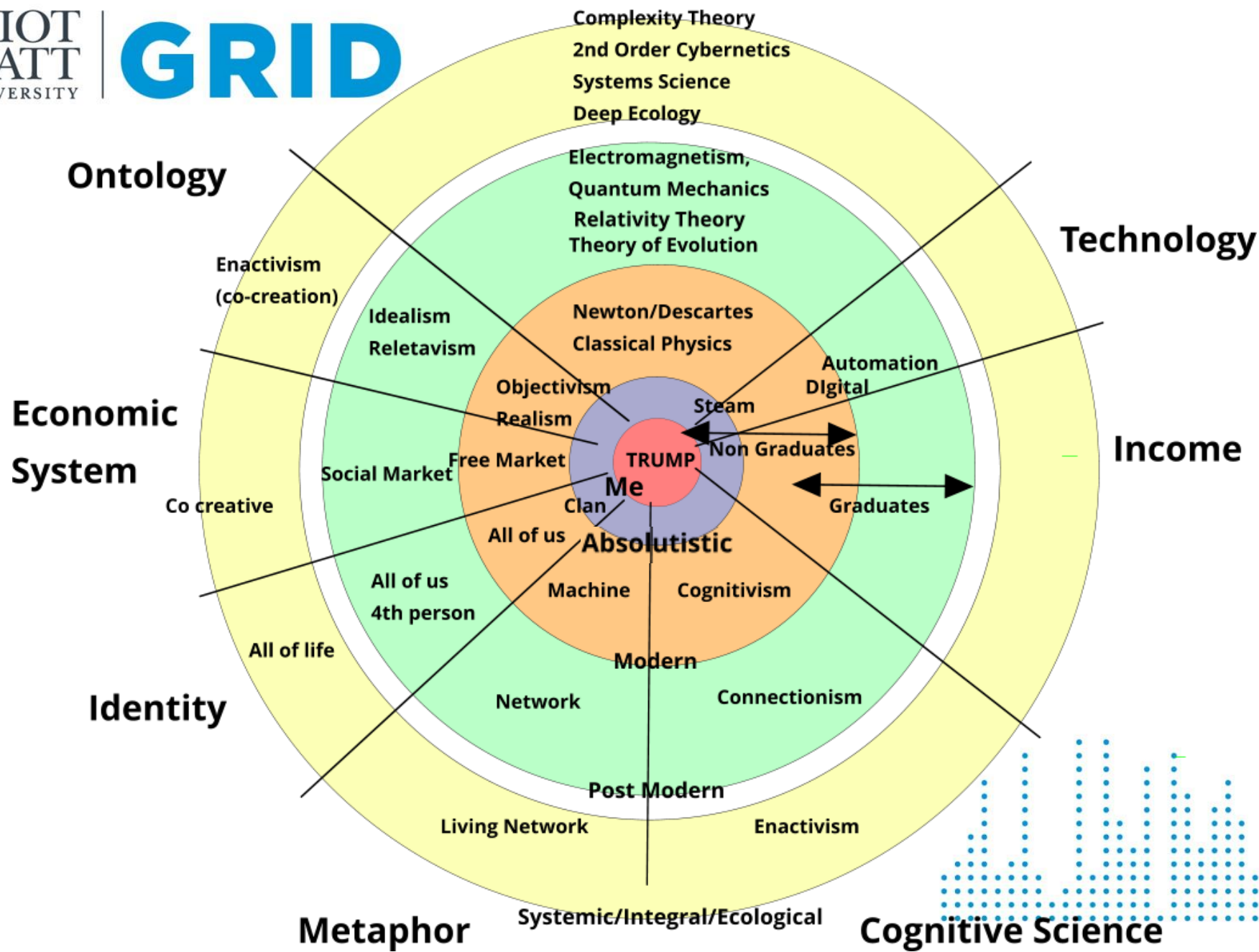
Scientific Paradigm



Scientific Paradigm

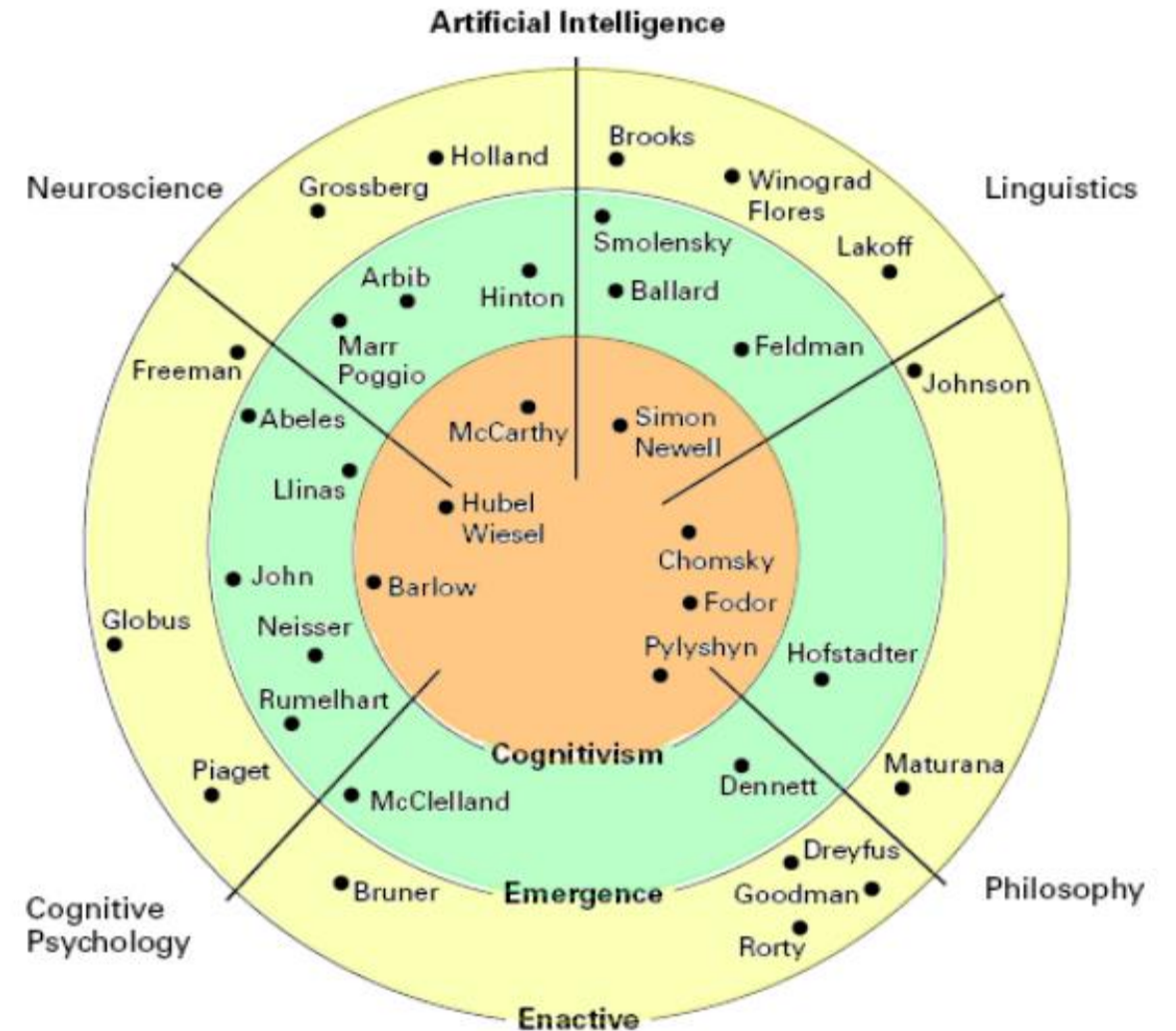


Scientific Paradigm



The Emergence of the Schools of Cognitive Science

- Cognitivism – The brain as computer
- Connectionism – Learning as emergence from networks
- Enactivism – The Co-arising of Subject and Object.



1st Tier	2nd tier
Siloed disciplines	Inherent multidisciplinary
Objects	Relationships
Measuring	Mapping
Quantities	Qualities
Structures	Processes
Objective Science	Epistemic Science
Cartesian Certainty	Approximate Knowledge
Separation	Integration
Subsistence & lack	Abundance wholeness
Left brain bias domination of “emissary”	Whole brain integration “master” back in control
Disembodied (“virtual trance”)	Embodied
Absent	Present
Fear and guilt “trance of unworthiness”	Compassion and Love “Embracing natural goodness”
Cognitive Biases	Awareness of biases
Grasp owns worldview as the one and only correct worldview	Awareness and acceptance of other worldviews and acceptance of knowledge of one’s own
1st order cybernetics	2 nd Order cybernetics
Predominance of personal and collective shadow	Healing of aspects of shadow.
Mindless (mind as brain epiphenomena)	Mindful (mind as primary – brain in mind)
Machine metaphor dominance	Living Systems metaphor
Physics as fundamental science	Interdisciplinary but life sciences led
Tendency to obsession with prediction and unhealthy control	Awareness of limitations of prediction. Healthy control
Psychology as therapy	Psychology as growth



1st Ecological Revolution

Tommorow?

POWERED BY RENEWABLE ENERGY

Worldview: Ecological, Holistic, All Life

Worldview: Systemic, Integrative, Flow, Natural Systems

Worldview: Relativistic, Relationship, Egalitarian

Worldview: The World Machine, Individualistic, Materialistic

Technology:

Transport: [Electric/Autonomous Vehicles](#)

Energy: [Fully Renewable](#)

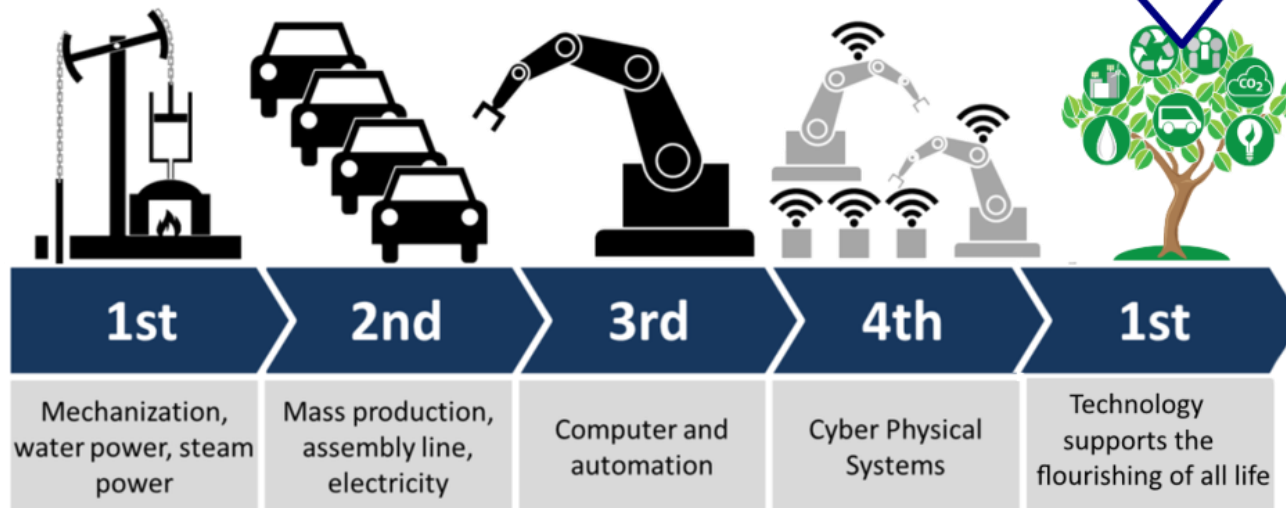
Communications: [Network Electronic Platforms, Blockchain](#)

Scientific Discoveries:

Systems Science, Systems Psychology

Systems Ecology, Systems Biology,

Integral Theory, Cognitive Science





GRID

