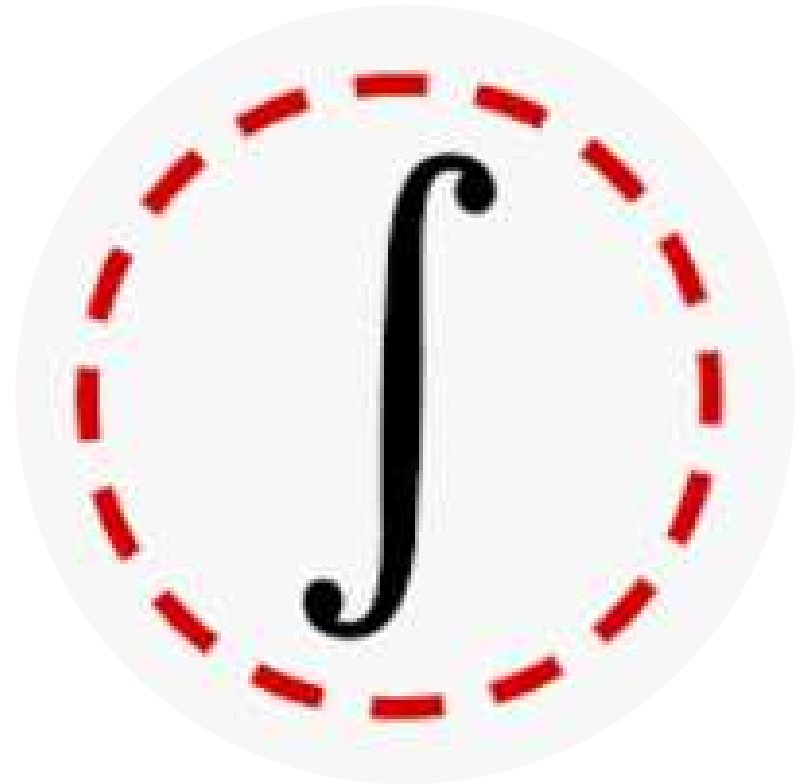


A ISSS Mini-Symposium:

“What observation naturally does not see”

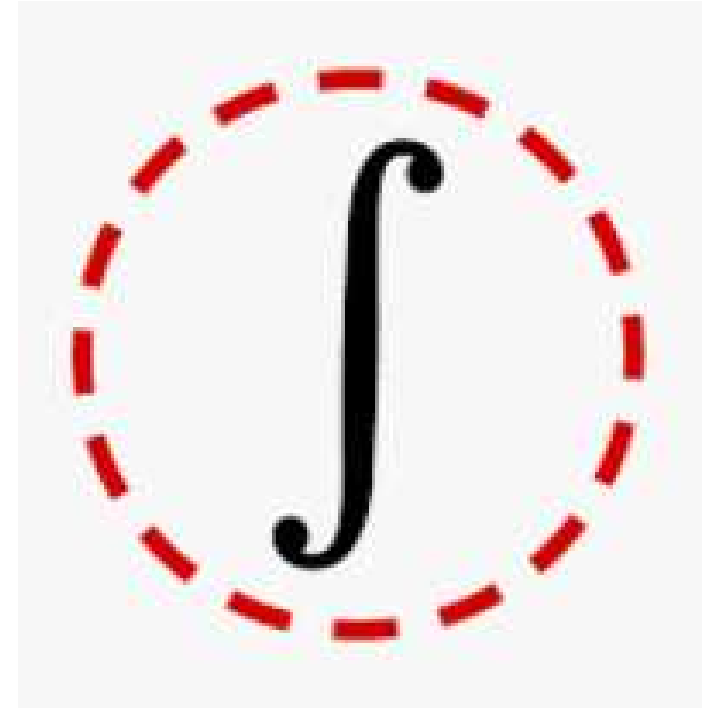
**Jessie Henshaw:**  
**HDS Natural systems**  
**design science**

**Chair: Roelien Goede**  
**20 May 2023**



# Create Knowledge Together: Emergence

- Embracing the idea of the totality of conditioned realities:
  - Aim is to understand conditioned realities / perspectives of others
  - Embracing Diversity
  - Discuss to learn, not to convince
- Role of the Zoom session
  - To have a video on a topic WITH A STATED PURPOSE
  - To have an interactive clarification to better understand the topic
  - We value consideration of others.
- Role of the Facilitator is to manage discussion to support the purpose. Please allow facilitator to speak when they have a raised hand. This indicates that the current argument needs to be moderated.
- Role of the Chat function is to present ideas and to develop understanding
- Role of the Message board is to continue the discussion as the facilitator will explain
- Invitation to Open Mic Session.
  - Attendees are invited to contribute a 15 min presentation in the open mic session at the end of each month. Please contact Roelien at [President@iss.org](mailto:President@iss.org) if you want to book your spot.



# “What Observation Naturally Doesn’t See”

**Understanding observation is key to science,  
particularly for living things that can only observe things in context.**

**Aren’t contexts very often well-organized local environments?**

## Often overlooked

- Details of the unfamiliar, uninteresting, we’re not prepared, are only in formation

## All but impossible to observe

- Things too small, happening too fast, poorly lit, or hidden from view
- Relationships, Designs, Contexts,

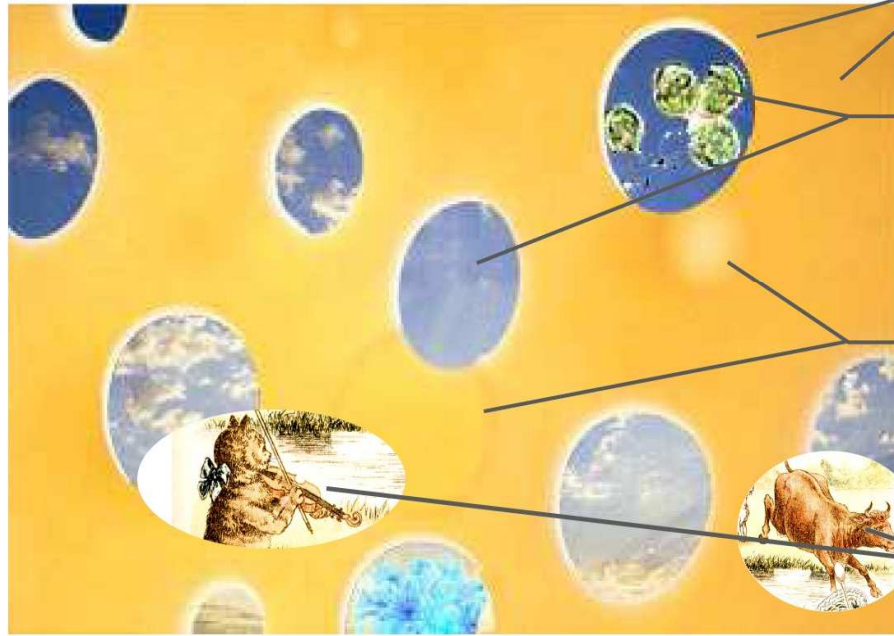
**Our own and lives on earth prove the latter:**

**A) there are things to respond to, and B) we respond well enough at times.**

# “What observation naturally does not see”

If we look at “The Cheese” and see nothing, when is it something, and when not?

What we make tying the threads of our information



The fabric of our understanding

Holes in our information from systems of nature, seen from the outside, but built from the inside.

Some patches of made up stuff to hide some holes

Some holes of our own making too

**Aren't contexts a multiplicity of often highly organized environments that science appears only to have had no ability to explore?**

**How did science separate knowledge from contexts anyway?**

# “What observation naturally does not see”

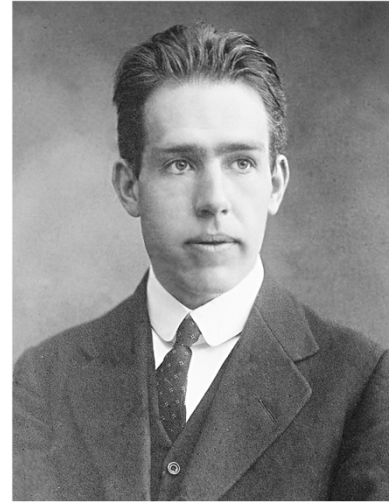
If we look at “The Cheese” and see nothing, when is it something, and when not?

Werner Heisenberg



- “What we observe is not nature itself, but nature exposed to our method of questioning.”

Neils Bohr



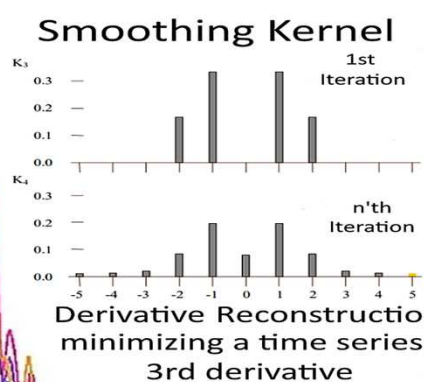
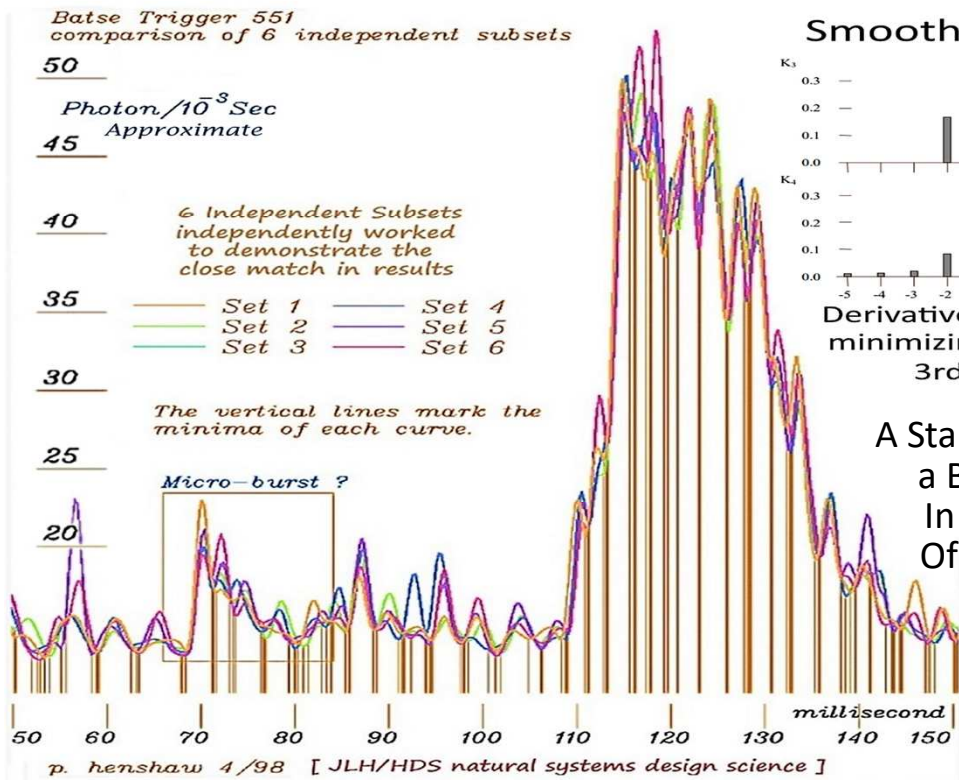
- “It is wrong to think that the task of physics is to find out how Nature is. Physics concerns what we can say about Nature.”

**But then, how did physics come to describe the principles of nature without contexts?**

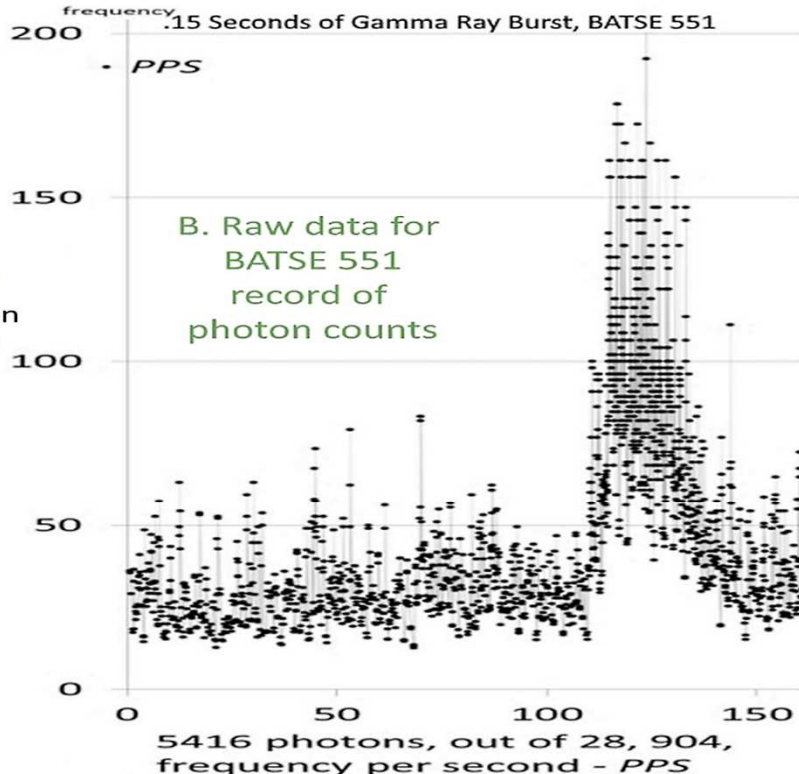
# Unseen continuities of nature. What's unseen still following the rules?<sup>6</sup>

If we look at "The Cheese" and see nothing, when is it something, and when not?

## Matching intricate continuities in 6 subsets of the raw Gamma Burst data

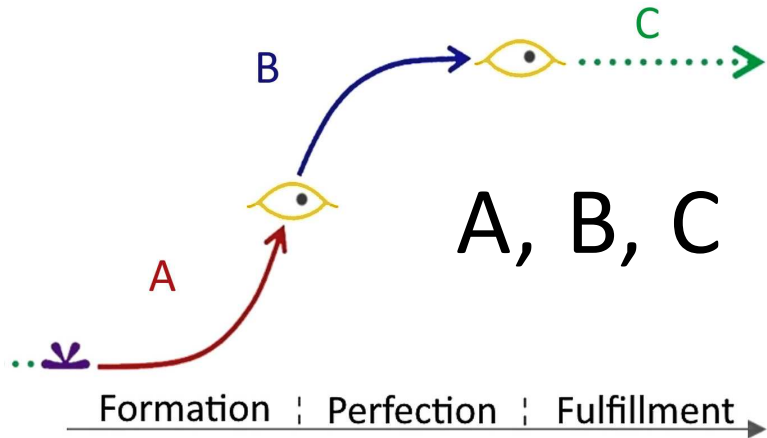


A Star Drawn into  
a Black Hole  
In 5/100ths  
Of a Second

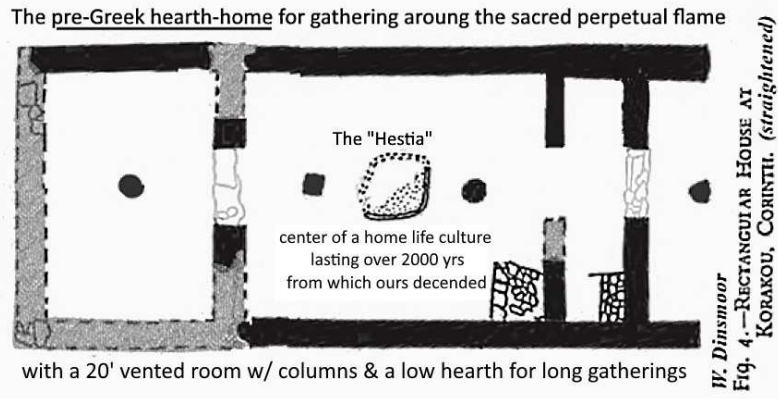


# What we CAN observe, Though Is, Many Centers with Connections

Nature's Integral



## The Oikos family home, Bronze Age Aegean proto-Greek culture



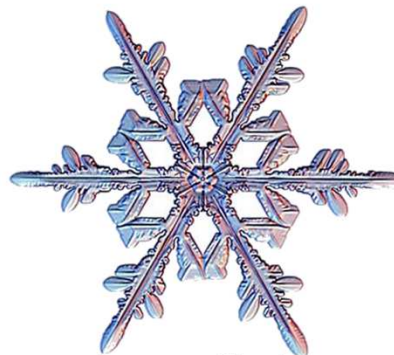
Storm



Tree



People



Snowflake



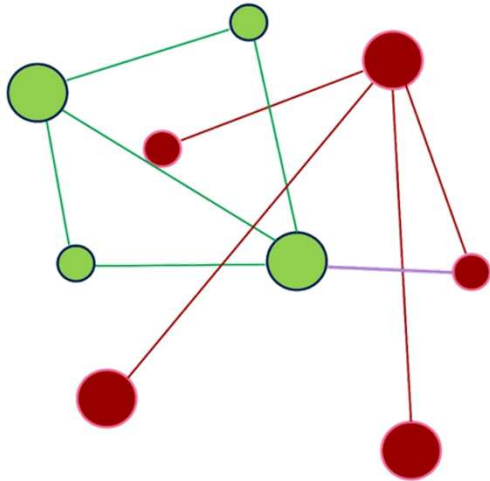
City

# When we see connections, What its it being connected?

For the hives of relationships inside that energize the 'nodes,' 'networks,' and 'life' outside

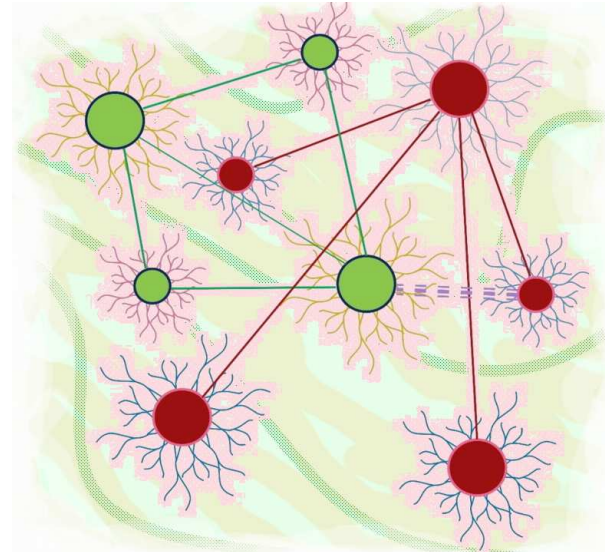
Seeing only connections blinds you to the hives of relationships out of context

Seen as distant relations  
of just the connections



Abstract concepts without context

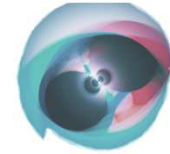
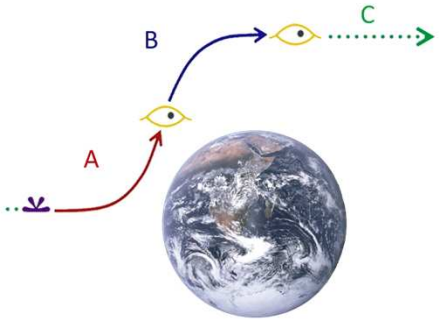
Living systems of homes  
of hubs + hives inside in context



v. Rich homes embedded in contexts



# Do Centers Form Only Around Secluded Nuclei Unable to See In or See Out?



- Complex systems observably start small, in protected places, and quickly complete their initial designs.
- Before making other connections
- So it seems Nature has been exploratory & opportunistic in the extreme, as we see in mature systems as well as immature ones.
- Something about creative response to contexts, we can only see in ourselves, perhaps?



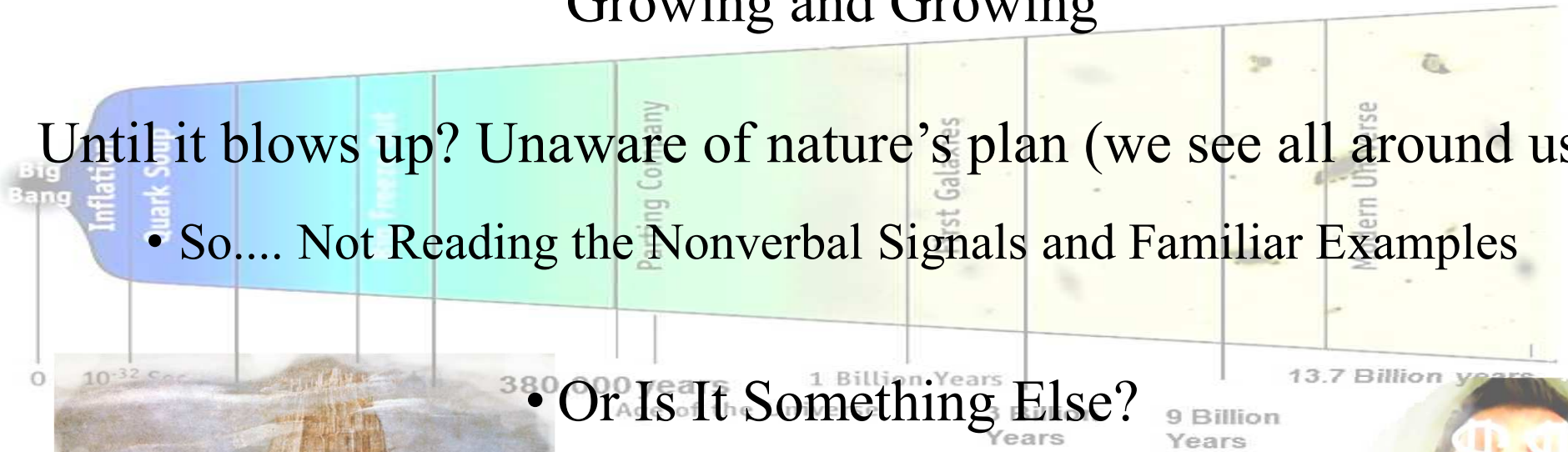
# Is that why growing civilizations remain blind to their contexts?

## Growing and Growing

### Until it blows up? Unaware of nature's plan (we see all around us)?

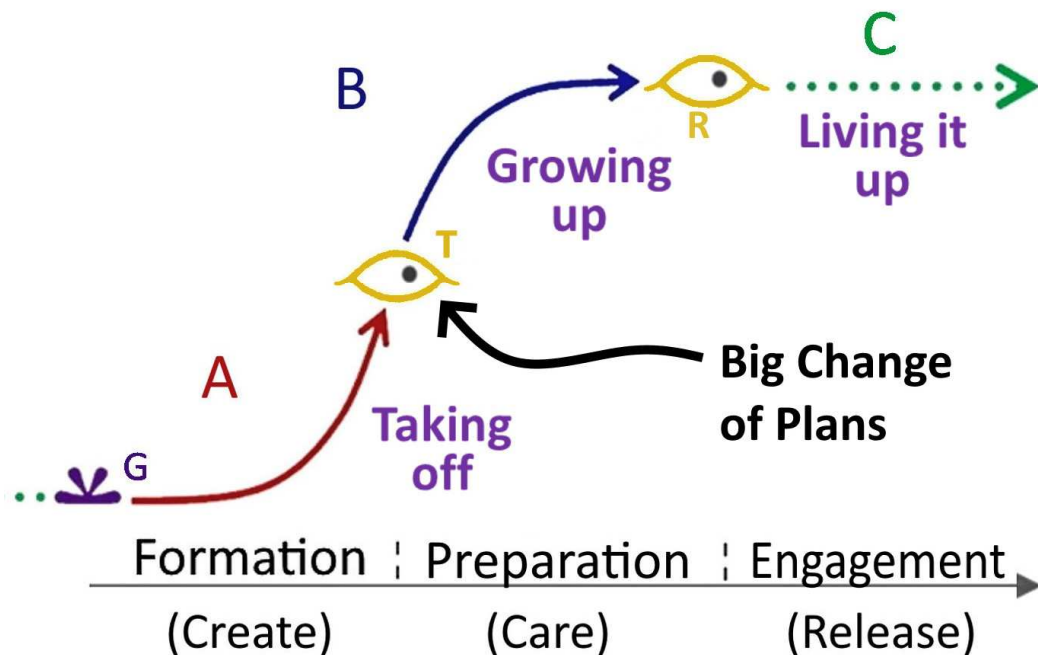
- So.... Not Reading the Nonverbal Signals and Familiar Examples

- Or Is It Something Else?



So, how does nature steer so well through what we might be looking for?

## Nature's Integral



- 1. **When things connect, Germination (G)** starts a capture of resources used for rapid growth (A) of the new system's new form and its coupling to its environment.
- 2. **New a design, jells & takes form Turn (T)** the growth resources pass to the care, learning and maturation (B) of the system in preparation for its NEXT new world.
- 3. **When finally ready, its Release (R)** starts its engagement with life (C) as a resourceful self-governing individual, with a life ahead, of taking new roles as part of a larger whole.

# Has anyone ever thought of teaching it?

Well... It's more who hasn't, though often without a science



- 1. Elinor Ostrom
- 2. Gerald Midgely



- 3. Every Home, Private, Public, Design, and Business education that teaches being creative in context and making it all work.

**(Though, some focus more the whole context}**

# the Natural Growth Path – a plan to change plans And Look for What's Unseen

Slides & ref's:

These Slides: <https://synapse9.com/ISSS-23/May20-slides-WhatsUnseen.pdf>

Review Draft for the SRBS paper: <https://synapse9.com/ISSS-23/May20-GrowthInContext-RevDraft.pdf>

Natural Systems - Design & Steering <https://synapse9.com/ISSS-22/HNS1-MS-Design&Steering.pdf>

Elinor Ostrom's Nobel Lecture - <https://www.nobelprize.org/prizes/economic-sciences/2009/ostrom/lecture/>

Gerald Midgley's model talk - <https://lnu.se/en/meet-linnaeus-university/current/events/2021/seminar-midgley-210304/>