



# **Systemic Education for Sustainable Development**

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# Sustainable development

## “Natural” evolution:

➤ Development + Sustainability

vs

➤ Readiness to adapt to sudden changes and provide for future generations

➤ Fast, unforeseeable changes in life and the job market require

profile development / transformation



# Foundations

- Cognitive science and neuroscience
- Modeling theory in science education
- Systemism
- Reliable educational research
- Patterns of success and excellence in life



# Education for sustainable development

- Education=national asset for development
- General & vocational education / levels complement each other under one policy
- Sustainable development requires sustainable and sustained learning for the development of 4P profiles



# 4P Profile



# Transient vs sustained learning

## **Conventional education:**

Transient learning => Consumer-citizen

One-size fits all, content-driven curricula

## **Authentic education:**

Sustained learning => Lifelong learning-  
and development- committed citizen

Dynamic, process-driven, systemic curricula



# Systemic world

## Patterns and systems:

- From atoms to galaxies
- From cells to organisms
- Human brain and mind

## System:

- An instance of a pattern (physical or conceptual)
- A set of interacting elements
- Serves specific purposes & brings about specific outcomes in a specific domain



# Sustainable learning

## Propitious curricula:

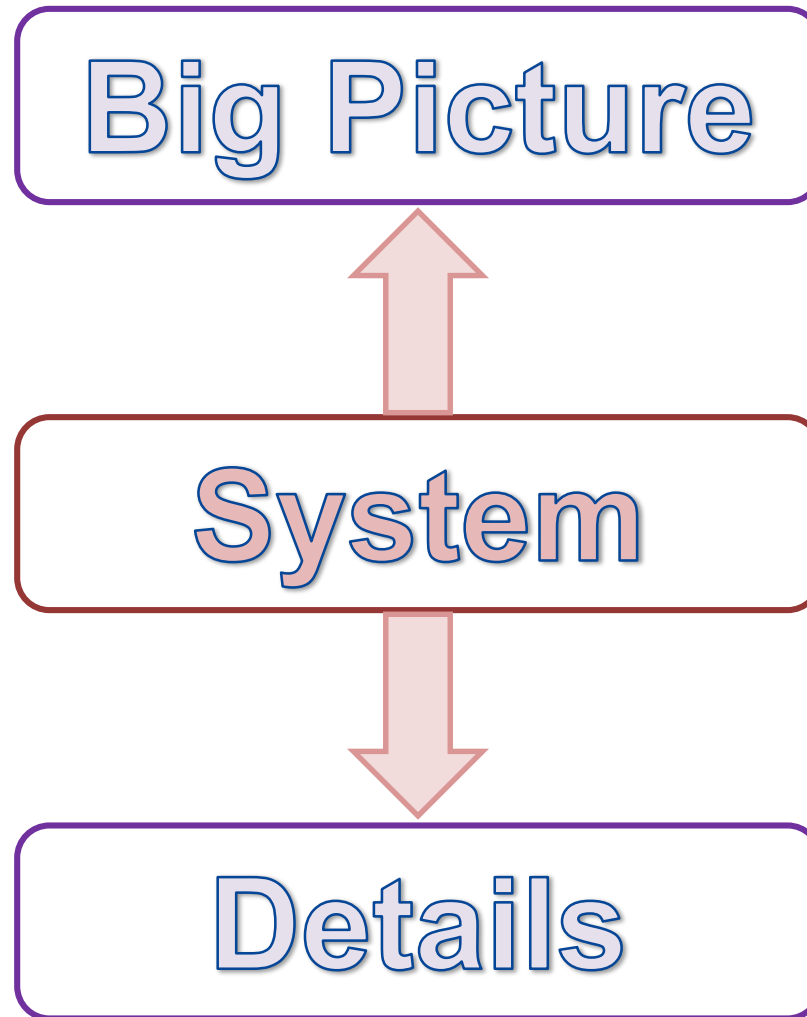
- Relevant: locally and globally
- Viable: culturally appropriate, reasonable, affordable
- Coherent and consistent across the board

## Student centered:

- Motivation: Need AND Interest
- Context: Everyday life / Student aspirations
- Cognition: Brain and mind compatible  
Conceptions, reasoning skills, dexterities, affects



# Systemic education



# Learning ecology



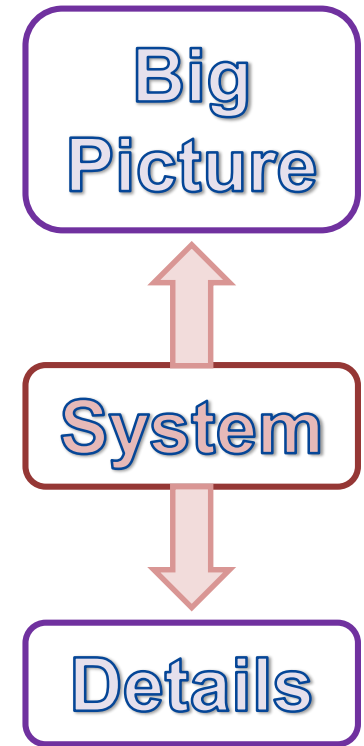
# Systemic education

## Systemic curricula:

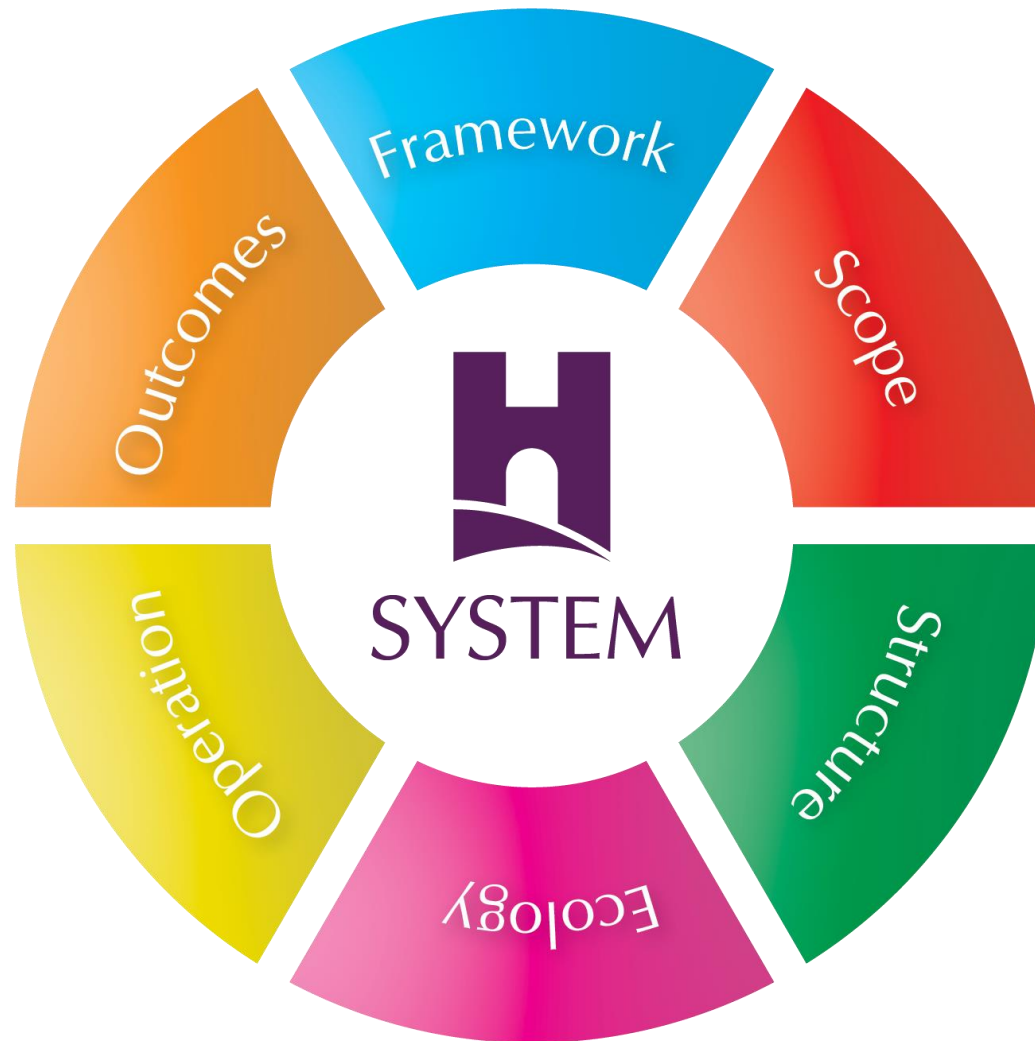
- System-based content
- System construction and deployment
- Cross-disciplinarity

## Systemic learning ecology

- Student: actor and agent of change
- Community engaged and engaging
- No to the 2-4-6 education model
- No to prevalent mumpsimus



# System schema





*Thank You*

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