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

- Principled
- Progressive
- Profound
- Productive
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

Big Picture

System

Details
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 mumpsimuses
System schema
Thank You

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