Wicked Problems

Tom Higley – Founder & CEO, 10.10.10 & X Genesis



Complexity

Energy

Entropy

Systems dynamics

Efficiency

Systems Theory

Encapsulation

un utintinu

Cellular automata Emergence Information

Self-Organization

Self-organized Criticality

Thermodynamics

Synchronization

Small world

Graph theory Scale-free network

Network Theory

Propagation Vulnerability
Robustness

COMPLEXITY THEORY

Strange attractors

Bifurcation theory

Scale invariance

Nonlinear Systems Fractals

Phase transition iterative maps

Chaos theory

Control system

Cybernetics

Adaptation

Hysteresis & Evolution Feedback

Complex adaptive systems
Path
Dependency

Wikimedia Commons





No Right to be Wrong Socially Complex

> Wicked Problems

No Clear Solution

Interdependent

Changing Behaviors

Unforeseen Outcomes

Four Things To Understand

- No definitive formulation of a WP
- No one addressing a WP has a right to be wrong
- Choice of a WP's explanation determines nature of its resolution
- Each WP is a symptom of another problem

Tools & Methods: Systems Maps, Causal Loops & More

- You are here. (But what else is here and why?)
- Who is doing what, when, with whom and with what result?









Points of Intervention

PLACES TO INTERVENE IN A SYSTEM
IN INCREASING ORDER OF EFFECTIVENESS
(DANA MEADOWS)

Getting Unstuck Wicked Problems as Opportunities

- The "outsider" as change agent; the child – "the emperor has no clothes"
- Change the system by "building a system"
- Isolating a subsystem"

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