

Social Entrepreneurship Has Complexity Science Written All Over It

Jeffrey Goldstein, Adelphi University James K. Hazy, Adelphi University Joyce Silberstang, Adelphi University Ronald Schultz, Legacy XXI Institute

International Social Innovation Research Conference 16 September 2009

Center for Complexity and Social Entrepreneurship



Adelphi University Garden City, NY USA 11530 516.877.4674

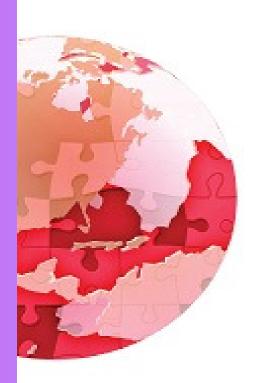
Http://socialentrepreneurship.wikispaces.com

Overview

- Conference, Center & Publications
- What is Complexity Science?
- Renascer Social Networks
- A Dynamical Systems Change Model
- Case Study: Soft Systems Methodology

COMPLEXITY SCIENCE & SOCIAL ENTREPRENEURSHIP

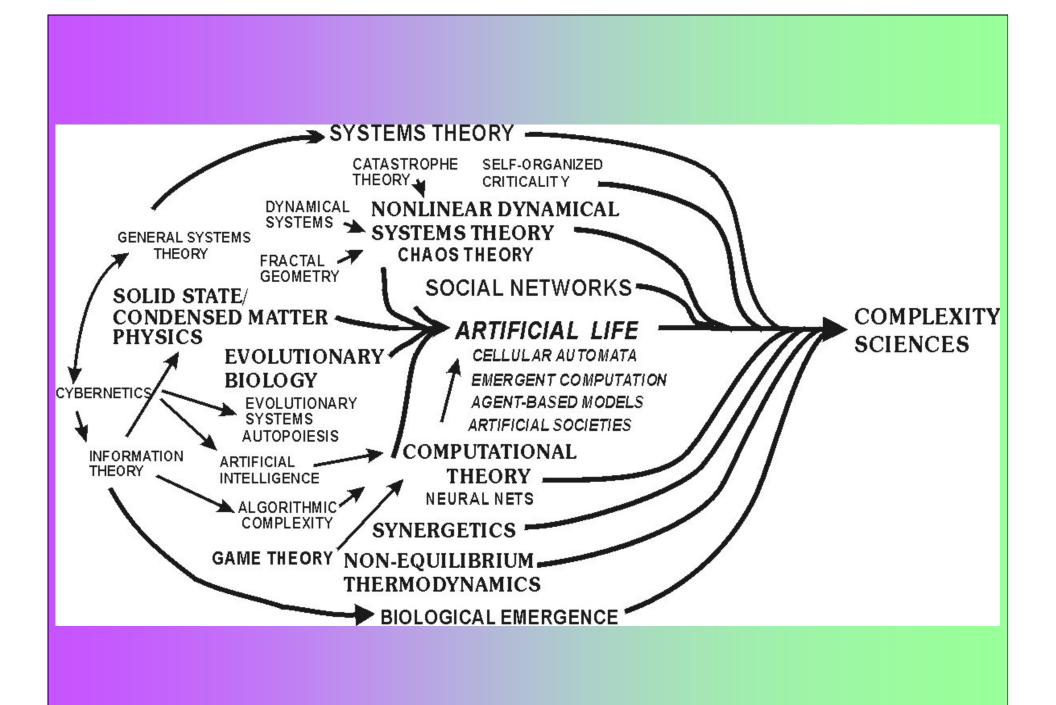
Adding Social Value Through Systems Thinking



Edited by

Jeffrey A. Goldstein James K. Hazy Joyce Silberstang

Exploring Organizational Complexity: Volume 3



Right now it's only a notion, but I think I can get the money to make it into a concept, and later turn it into an idea.

- Woody Allen

There is nothing as practical as a good theory.

- Kurt Lewin

Why Social Entrepreneurship, Systems Thinking, and Complexity?

Associação Saúde Criança Renascer

- 1991--founded by Pediatrician Vera Cordeiro because of recidivism rate of children with same health problems; meeting with 50 colleagues
- Reach-out to families (mothers) in favelas re: treatment plans, medical education, antiseptic conditions; enlisted other docs, nurses, etc.
- Many more joined as volunteers, set-up physical location, began work inside the favelas and instituted job training and small businesses involving dress making, crafts, cooking
- Free nutritional supplements as incentives
- Funding from government, Ashoka Foundation, dues paying members, help from McKinsey Consulting
- Replication: scaling outwards to 14 other hospitals in Rio, Sao Paulo, and Recife. (from Bornstein, 2004)

Success Factors in S.E. What to Emphasize?

Odilon Arantes (Head of Pediatric Ward at Hospital da Lagoa): "Here I can say with absolute assurance that the main element for Renascer's success was Vera."

"[Vera] acknowledged she... had brought people together, but it was their collective energy that made it all happen." [Bornstein, p. 145]

Charismatic heroic leader

Networks, Emergence,

Resonance--Complexity

Social Entrepreneurship has Complexity Science/Systems Thinking Written All Over It

- Innovation/Emergence
- Self-organization
- Nonequilibrium Conditions
- Nonlinear Dynamical Systems
- Networks/Graphs/Collectivity
- Distributed Control/Heterarchy
- Differences/Information Flow

Social Entrepreneurship has Complexity Science/Systems Thinking Written All Over It

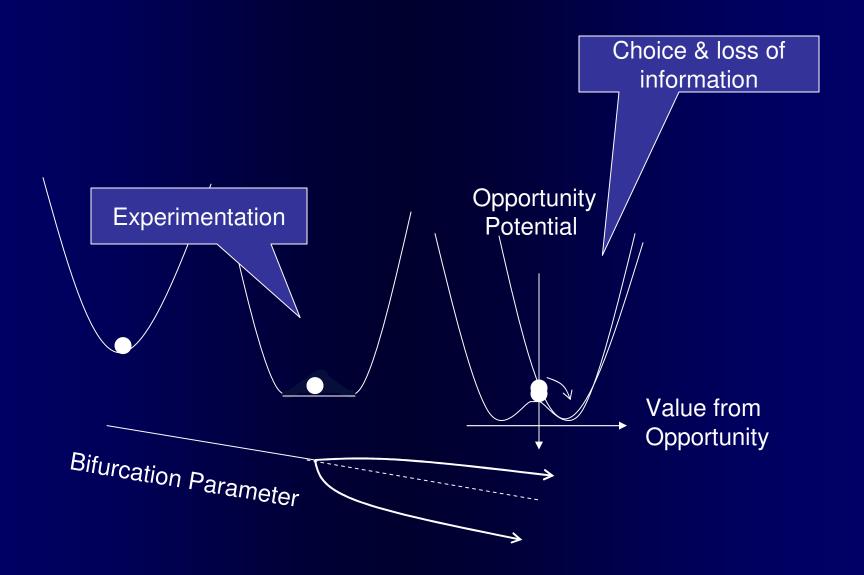
- Innovation/Emergence
- Self-organization
- Nonequilibrium Conditions
- Nonlinear Dynamical Systems
- Networks/Graphs/Collectivity
- Distributed Control/Heterarchy
- Differences/Information Flow

Nonlinear Dynamical Systems

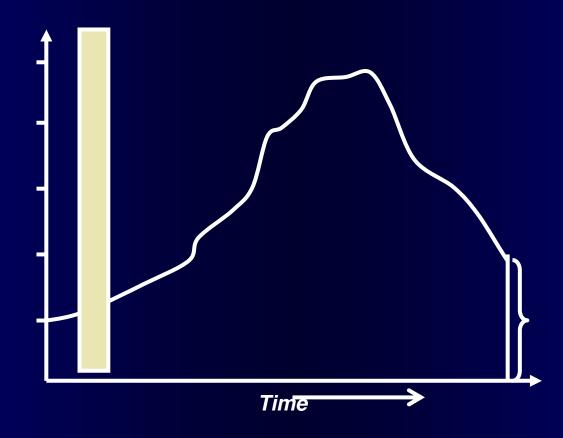
A Scalable Systemic Model of Social Change

- Nonlinear Relationships vs Linearization
- Stability Instability Stability
- Constraints Control Parameters
- Experiments in Novelty Social Entrepreneurship
- Information Gathering and Use (Gell-Mann)
- Order Parameters (Haken)
- Social Value Creation Metrics
- Social Innovation & Social Reordering

The Dynamics of Change

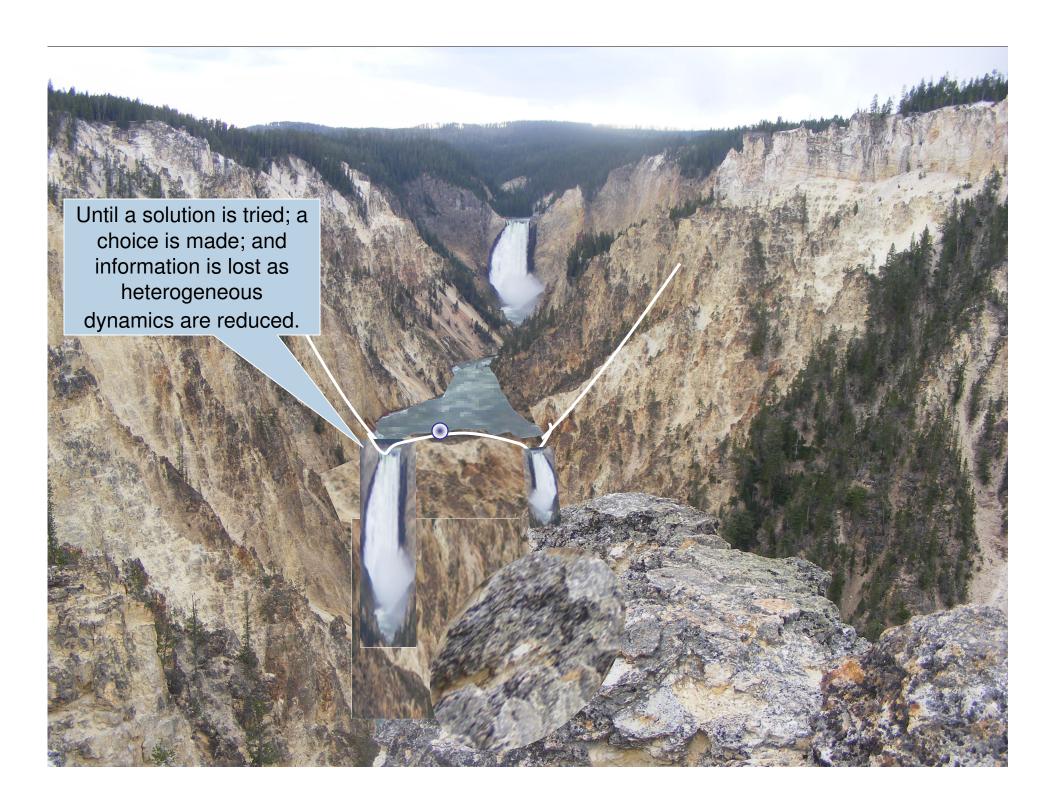


Information Available from Experimentation

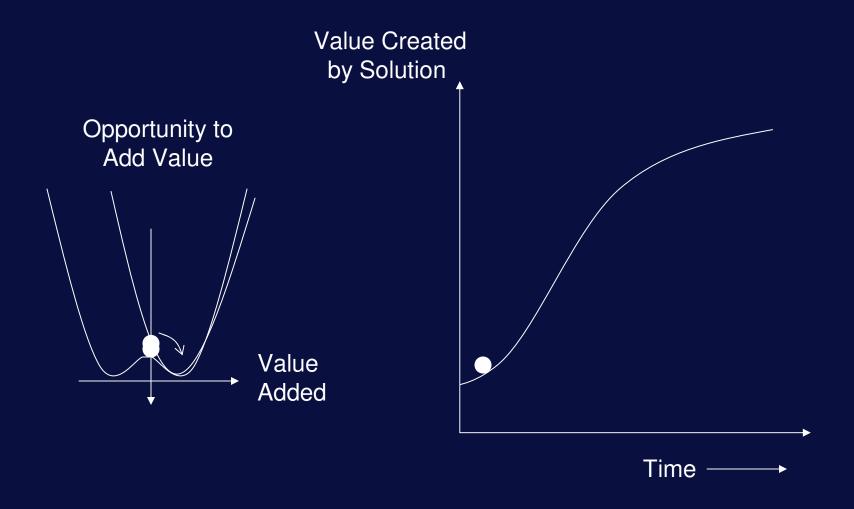




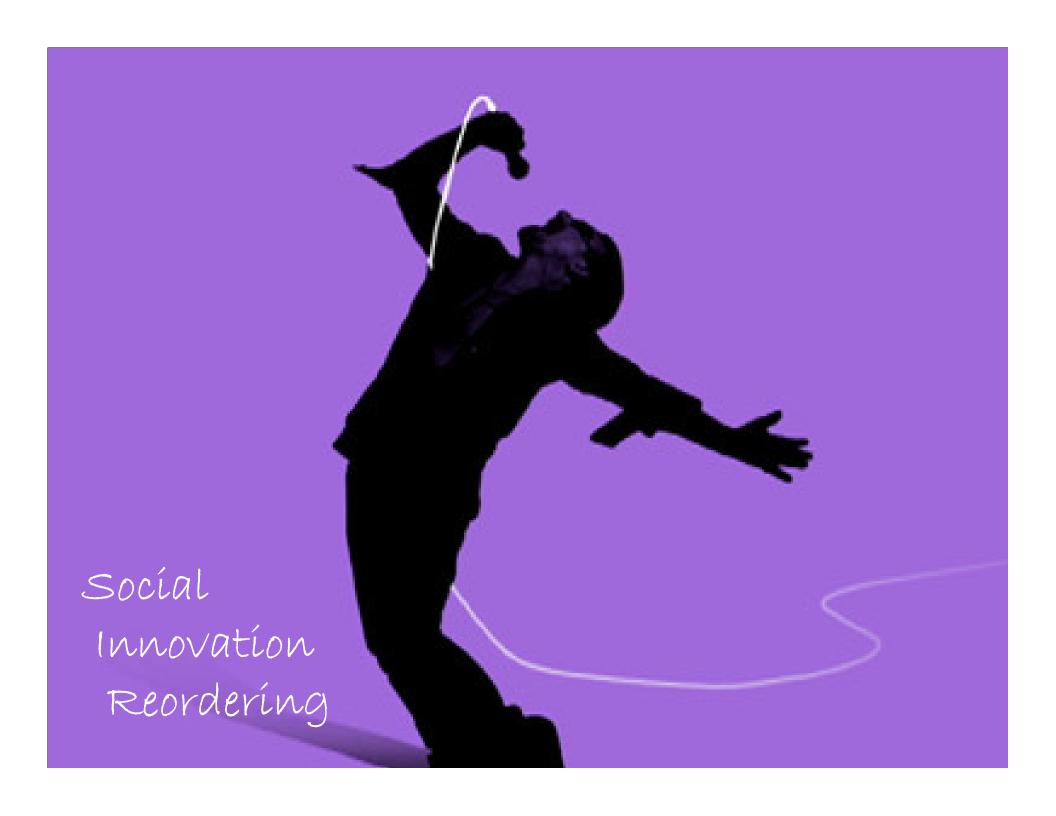




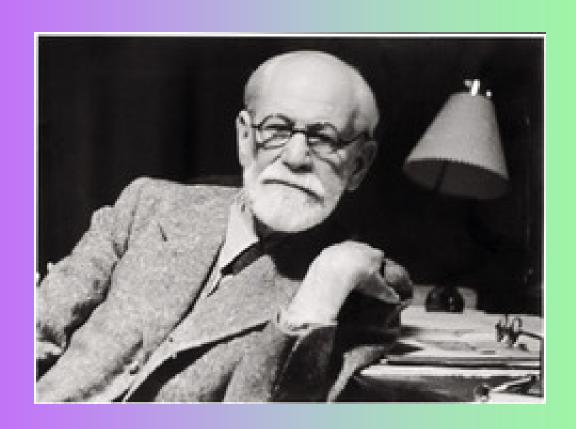
A Solution Finds a Groove & Takes Off!



... and a new future is created

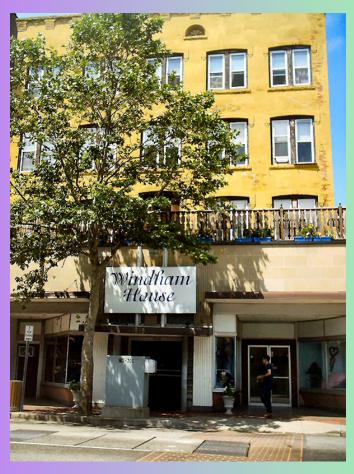


Looking Beyond the Obvious



Generating Positive Social Outcomes

A Case Study of Applying SSM in Community Revitalization



Gail Faherty, Doncho Petkov, Richard Staron, Eric Martin & Mike France

Complexity Science & Social Entrepreneurship: Adding Social Value

Through Systems Thinking

Soft Systems Methodology

- Brought in stakeholders usually excluded from the process
- Included and encouraged multiple perspectives

Translating Theory Into Action

The result

- Development of overall vision for downtown
- Master Plan of Conservation and Development
- Creation of alternate housing

The result

- Expanded information rich social networks
- Emergence of new structures and dynamics
- Dynamical model to replicate further efforts

Conclusions

- "Social Entrepreneurship has Complexity Written All Over It"
- Social Innovation Demands New Ways of Thinking
- Complexity offers Useful Conceptual and Practical Tools