Management in a Time of Systemic Change

presentation given to two oil companies in Calgary, Alberta 30 September 2008

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What Examples of Systemic Change?

What Principles Might Apply?

What Experiments Can Be Tried?

What Examples of Systemic Change?

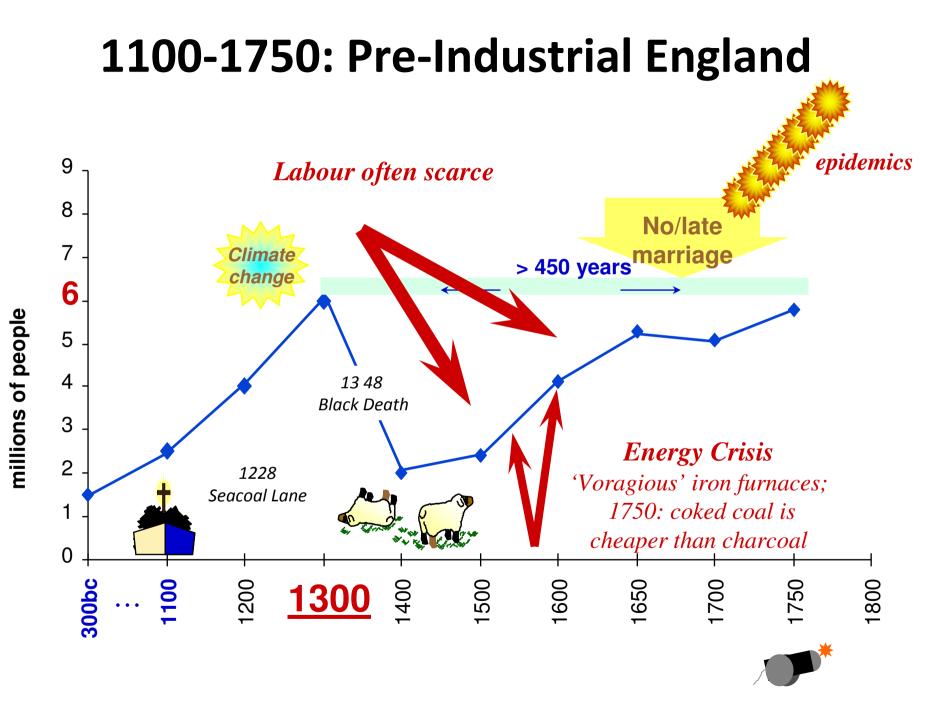
Examples of Systemic Change

Principles

Experiments

What Examples of Systemic Change? Examples offered by audience

- Internet economy & connections
- Sept08 financial crisis in USA
- Equal rights movements
- Blue box programme for recycling
- Company president decides to go green
- Advent of capitalism and value shift
- & its reverse
- Climate change
- China: pop explosion + affluence + Communist capitalism
- Global urbanisation



Drivers of Invention Early England

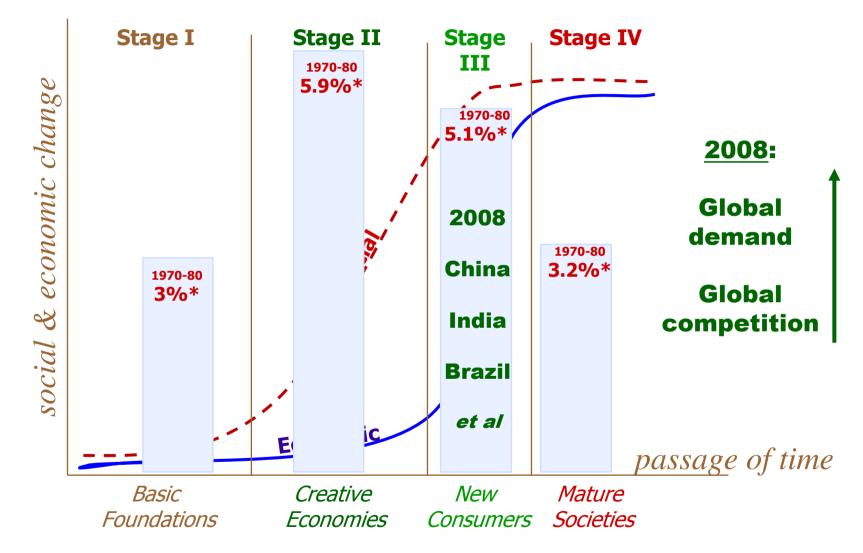


& necessity

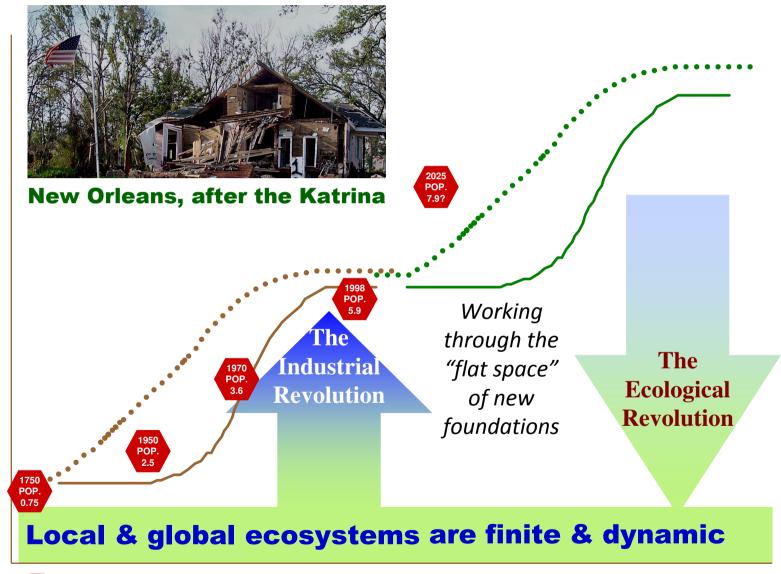
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Newton's Windmill

1984-2008: International Development



21st Century Transition: Bigger Than We Think





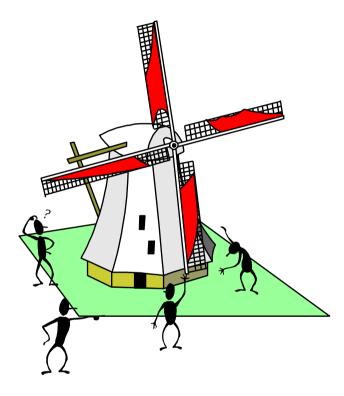
What Management Principles Might Apply?

Examples of Systemic Change

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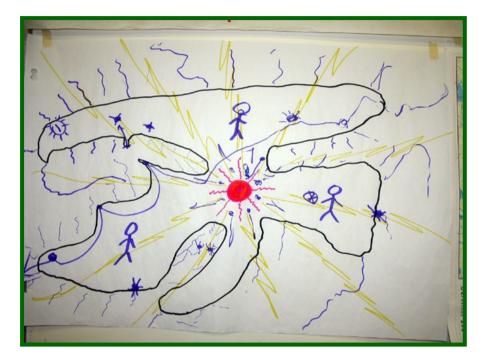
The Living Company Learns



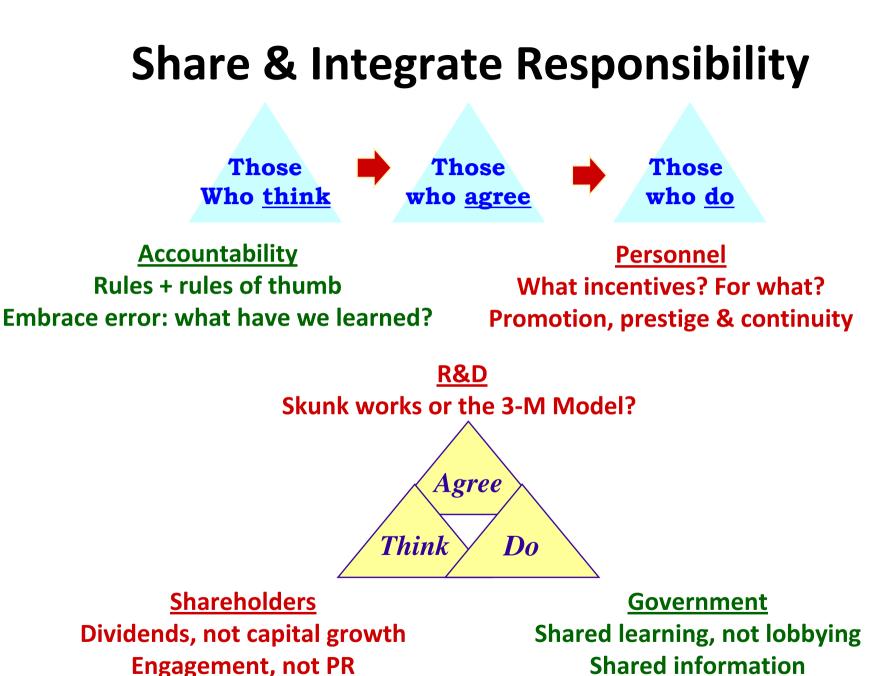
Who Is Us?

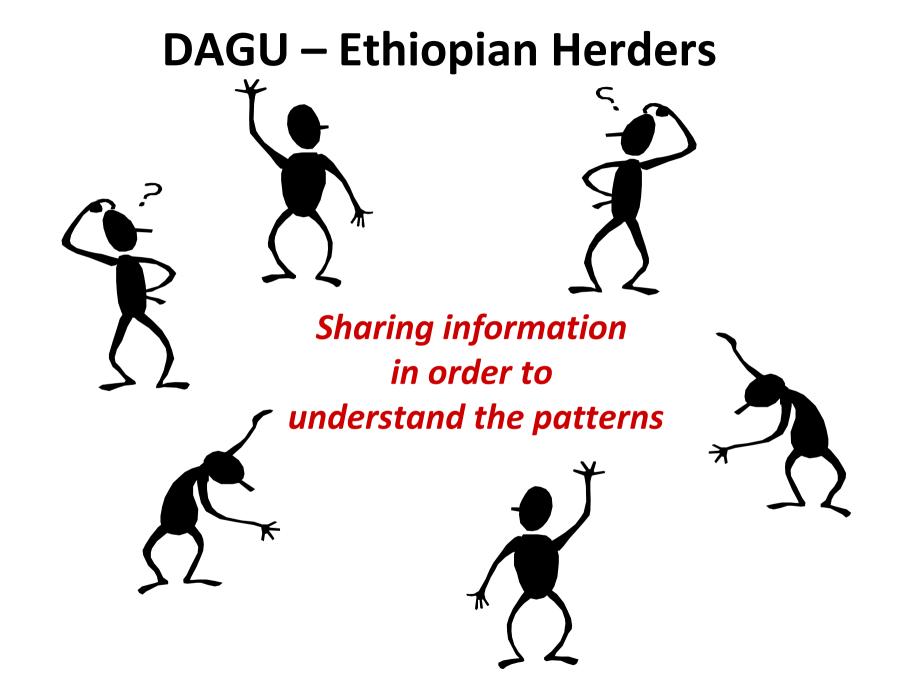
Expect Unexpected Competition

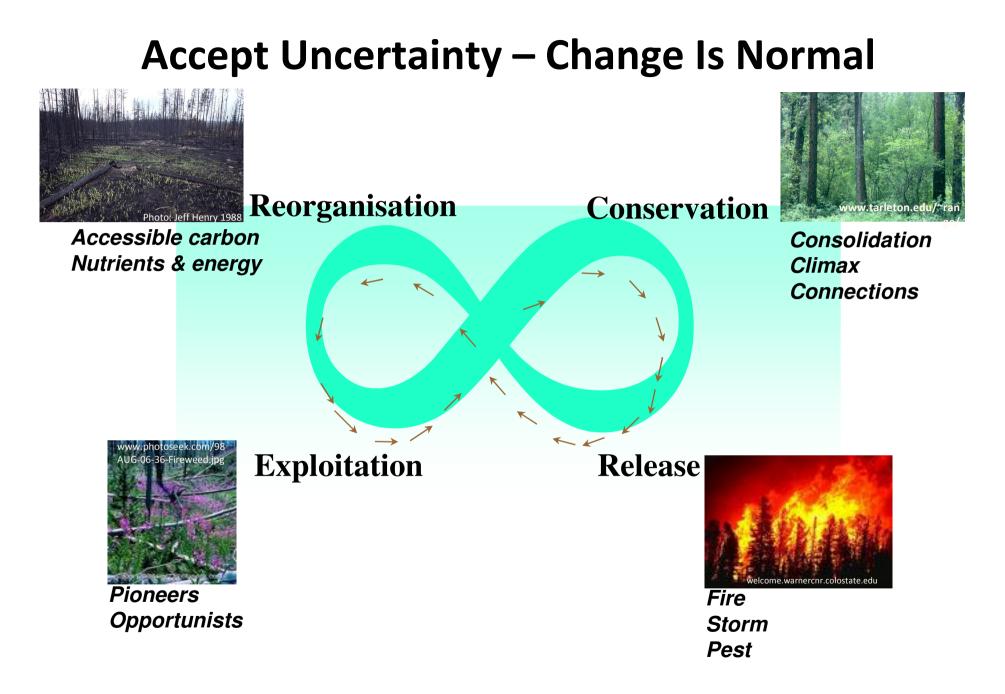
Shell, Exxon, BP, Chevon, Lukoil, Aramco or ...



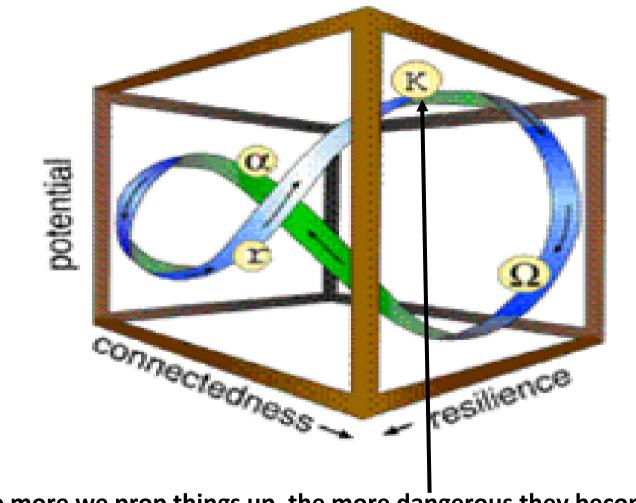
Chicago Climate Exchange Solar Century, UK Great Bear Lake Watershed Management Plan*,NW Territories Transition Towns, UK







Avoid the Rigidity Trap



The more we prop things up, the more dangerous they become ...

Review Responses to Competition



Expertise

Efficiency

Economy



Getting to Maybe



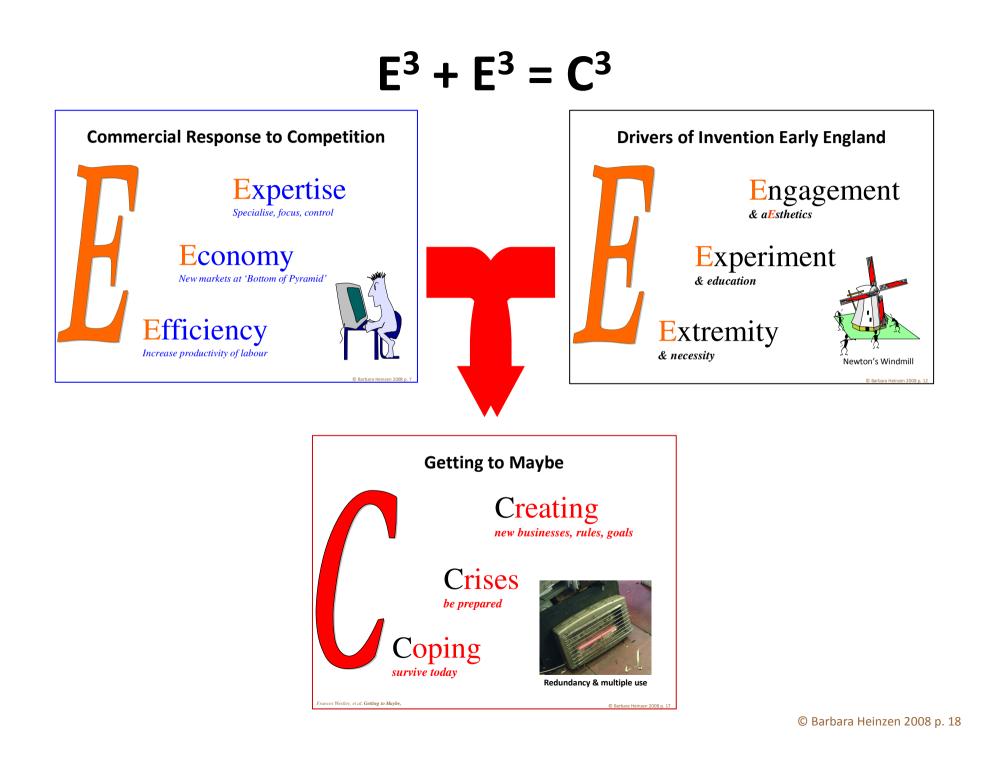


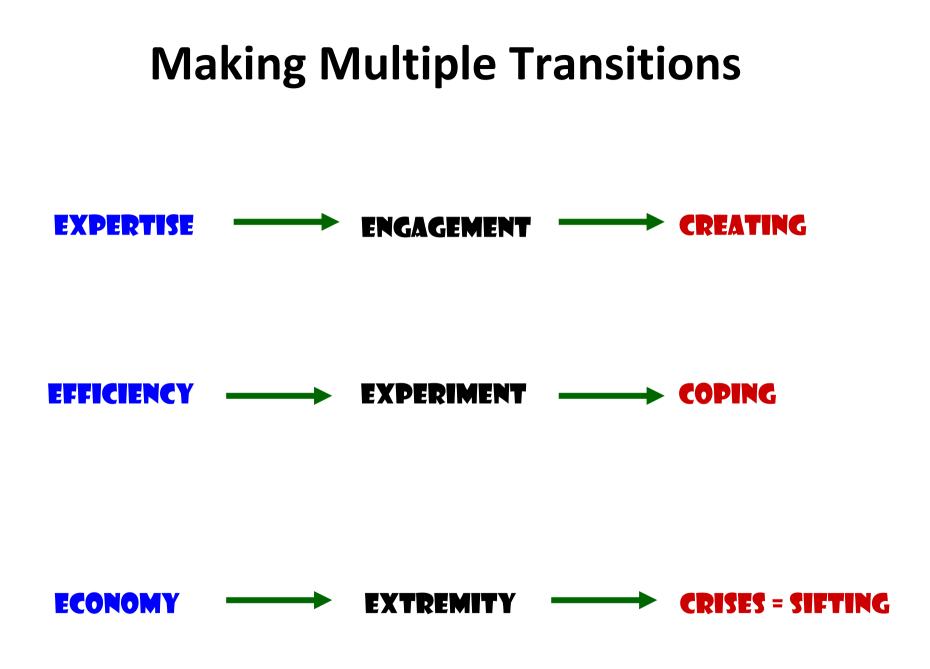
Crises

be prepared



Redundancy & multiple use





Developing New Habits of Mind

- Letting Go
- Questions, Not Answers
- Engagement, Not Control
- 'Maybe' Is the Best We Have

Lesson from Fisheries Management

"Managing fisheries is not about managing fish. It is about managing people who fish." Kathy Castro, University of Rhode Island



The need to mourn.



What Experiments Can Be Tried?

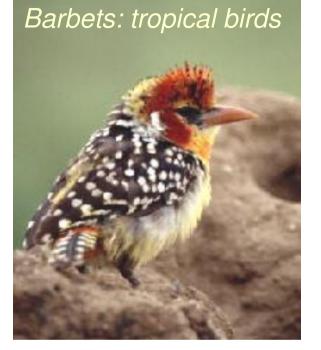
Examples of Systemic Change

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Barbets' Duet

A Business Idea, Not a Charity



INVENTING New institutions

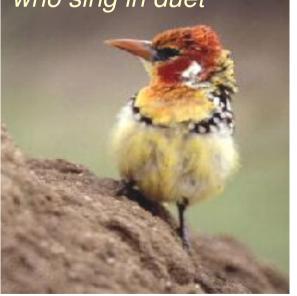
e.g. property rights & marketing structures SUPPORTING people

who support the natural world

who sing in duet

LEARNING from 2 cultures: Africa + West

modern & traditional on equal terms



4 Barbet Learning Sites, Feb 08: "Just Begin"



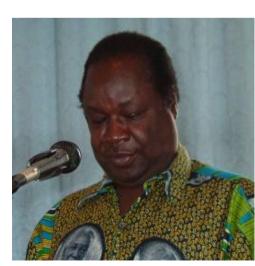
Oby Obyerodhyambo land in Seme, W. Kenya



1 paragraph 1 photo A date to meet

Sammy Muvelah land in Lukenya, outside Nairobi





Mwajuma Masaigana & Msi Choke Coop've Coastal Tanzania



Magode Ikuya Eastern Uganda

Invention Convention – May 2009

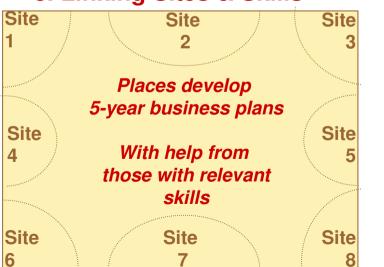


MgtEcologyMarketsWhat do we know,
Collectively?Finance
capitalFinance
microCollectively?Finance
capitalPowerRulesPatience

2. Essential Skills

3. Linking Sites & Skills







Barbets' Game

The Landscape Each landscape colour is a different soil type or habitat.





human ts

wild

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Players' tokens

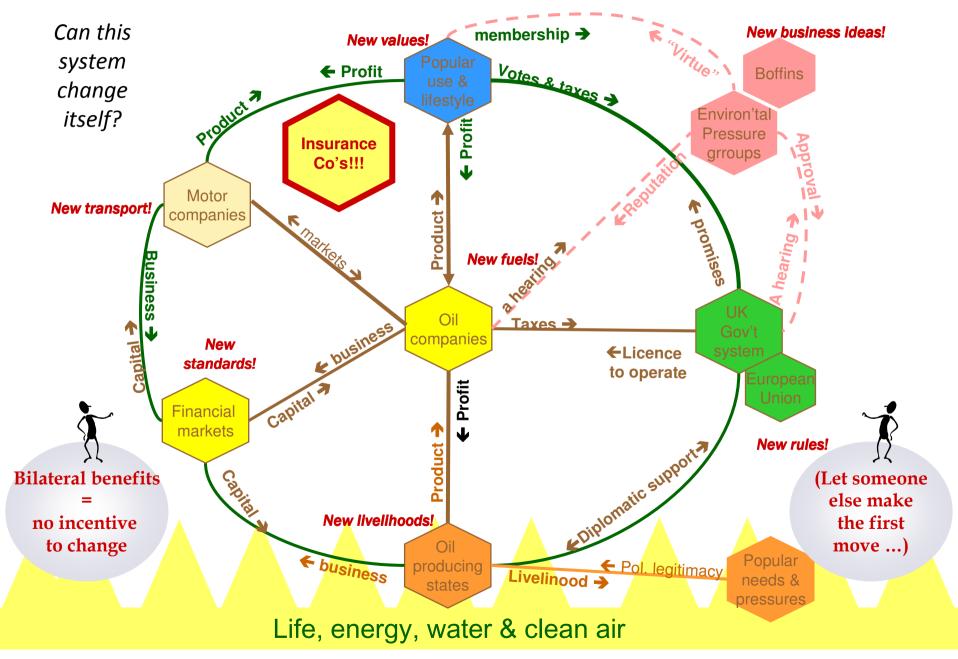
Additional slides not used

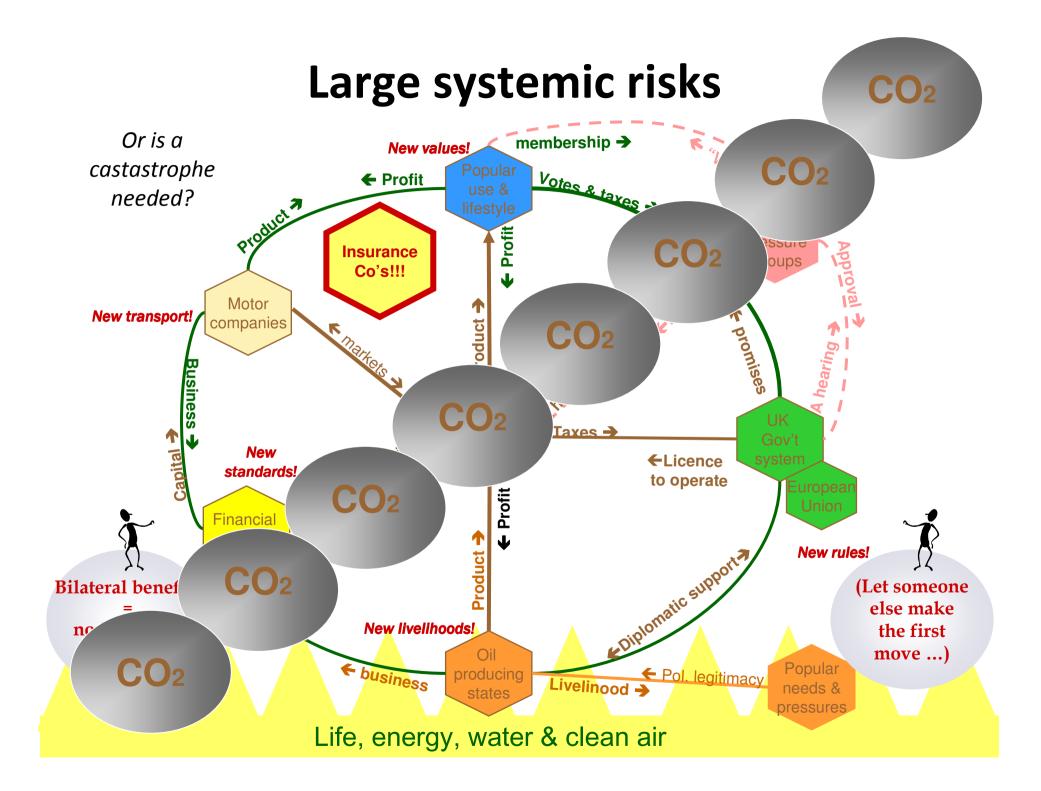
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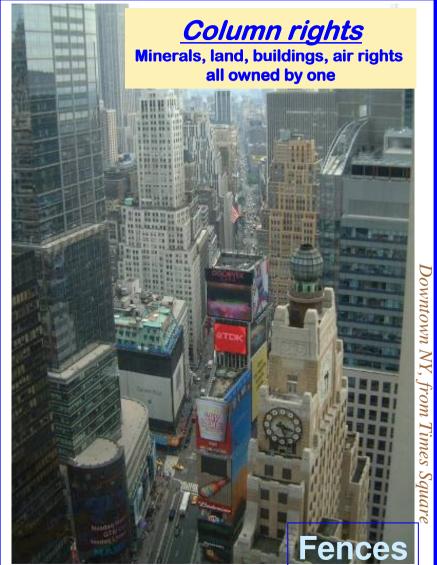
Bilateral benefits for every player





2 Cultures: Mosaic Rights & Column Rights

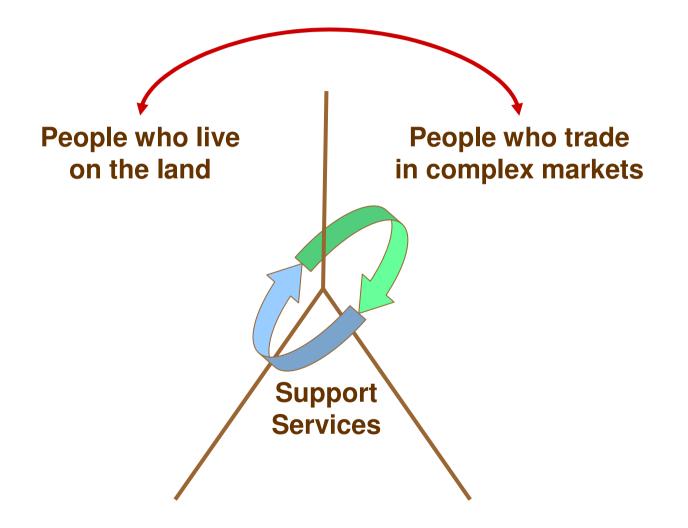
Mosaic rights Women: food crops, Men: tree crops, Herders: grazing after harvest Gov't: mineral rights, Those who dug the well, own the water Footpaths



Mosaic rights → high social equity, high biodiversity; Column rights → successful markets

Principal Relationship: People & Markets

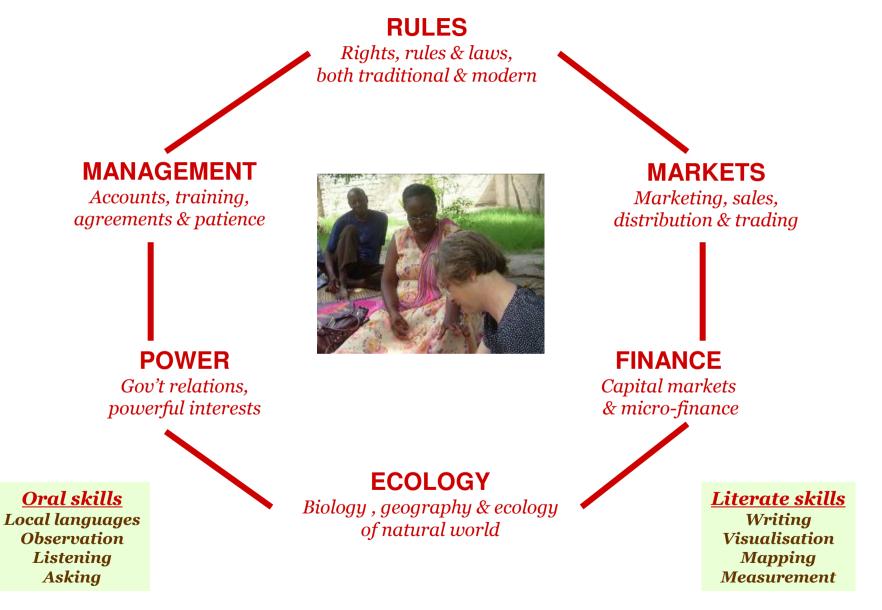
From October 2006 Conceptual Framework



Potential Markets

	Products of "Thing" Culture:	Products of "Earth" Culture
Four Types of Market	Moveable products Tangible, portable, Species-specific	Environmental products Intangible, immoveable, Site-specific habitats
Utility: creating things we need e.g. clean water, air, food, medicine, cosmetics, building materials	•Timber & grasses (wild & domestic) •Medicinal plants •Domestic biodiversity (e.g. seed & semen banks) •Edible wild: (e.g. roots, bush meat)	•Ground water recharge •Water purification •Carbon sinks (e.g. swamps, grasslands, uncut forests) •Waste management Decomposition services
Insurance: reducing risks of climate change, flooding, loss of ground cover due to climate extremities; loss of food species to disease	 Woodlots & grasses Medicinal plants Domestic biodiversity (e.g. seed & semen banks) 	 Flood control Micro-climate change Wild biodiversity Carbon sinks
Aesthetics Fashion, bragging rights, tourism, meditation	•Edible wild: (e.g. teas, roots, bush meat) •Wild biodiversity	•Species habitats
Intellectual property Genetic reserves	 Medicinal plants Domestic biodiversity (e.g. seed & semen banks) Wild biodiversity 	•Species habitats to support genetic reserves

Necessary Knowledge & Experience



Fundamental Issues in Barbets Experiment

Can price signals reward abundance, not scarcity?

What exactly can be owned & traded?

This may be necessary, but is it possible?

"If it is necessary, it must be possible."

Julius Kipng'etich Director, Kenya Wildlife Service 17 October 2007