#### 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?

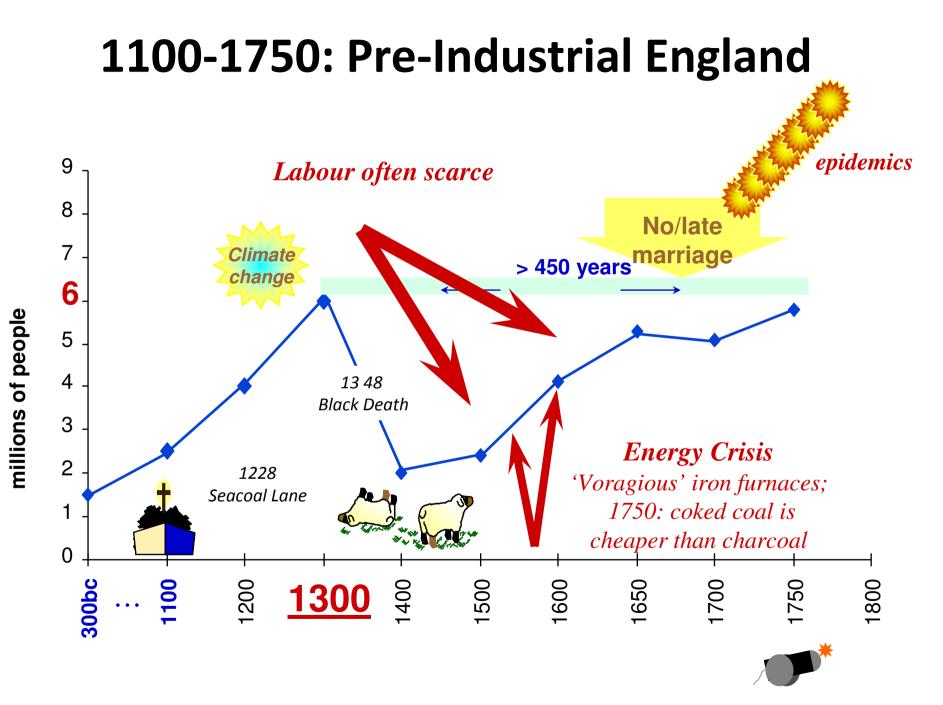
**Examples of Systemic Change** 

**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**

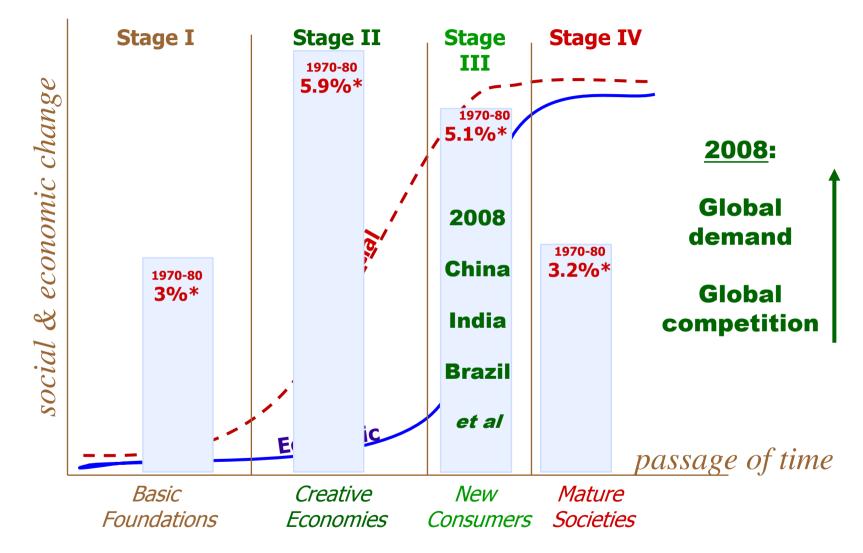


& necessity

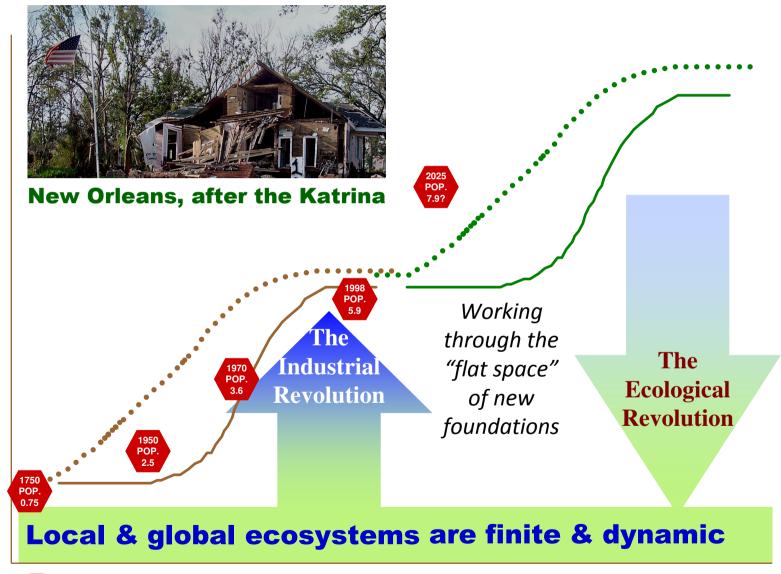
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Newton's Windmill

#### 1984-2008: International Development



#### 21<sup>st</sup> Century Transition: Bigger Than We Think





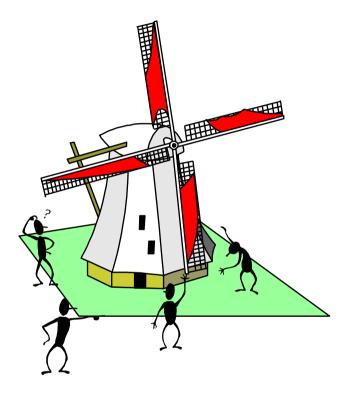
# What Management Principles Might Apply?

**Examples of Systemic Change** 

**Principles** 

**Experiments** 

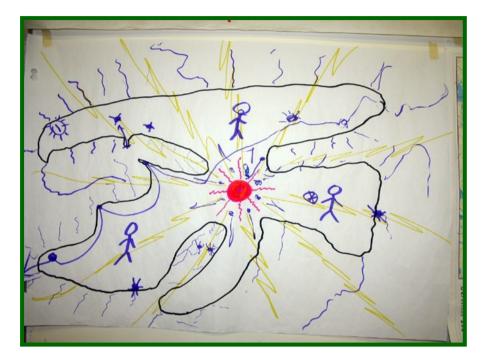
#### **The Living Company Learns**



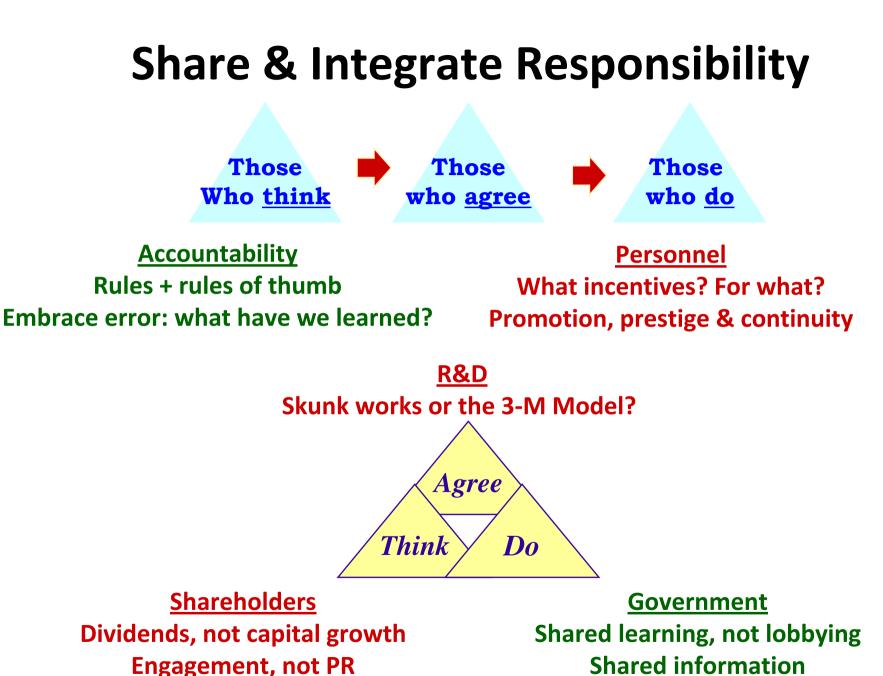
#### Who Is Us?

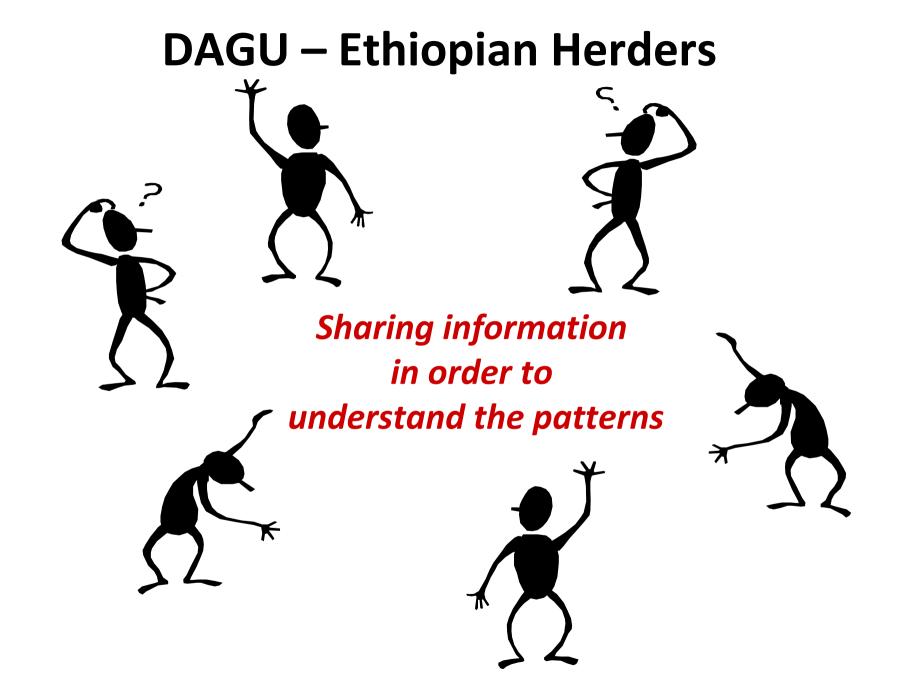
#### **Expect Unexpected Competition**

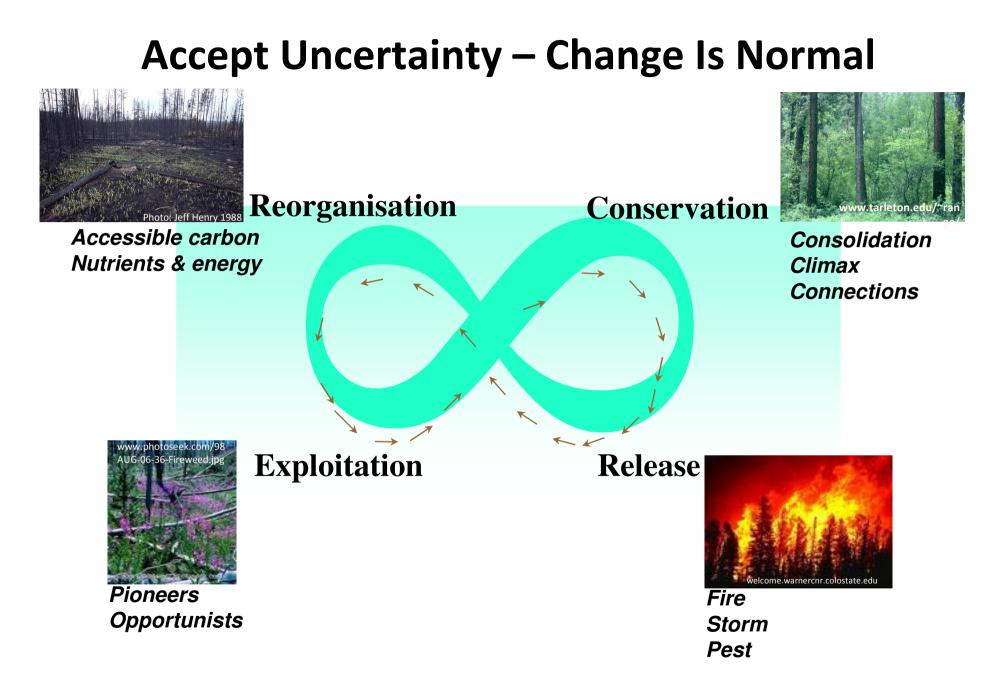
#### Shell, Exxon, BP, Chevon, Lukoil, Aramco or ...



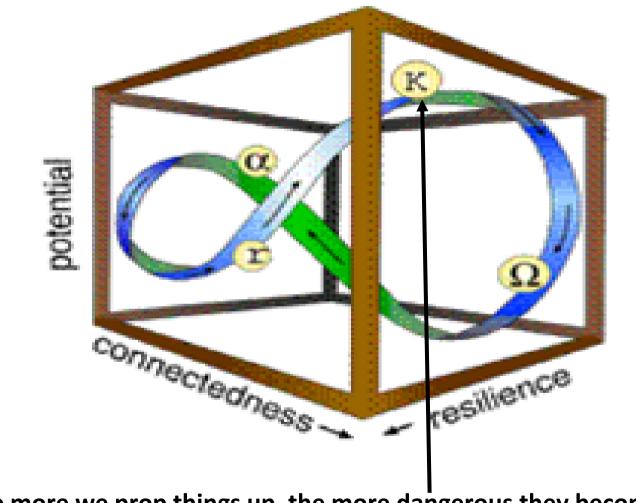
#### Chicago Climate Exchange Solar Century, UK Great Bear Lake Watershed Management Plan\*,NW Territories Transition Towns, UK







#### 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**



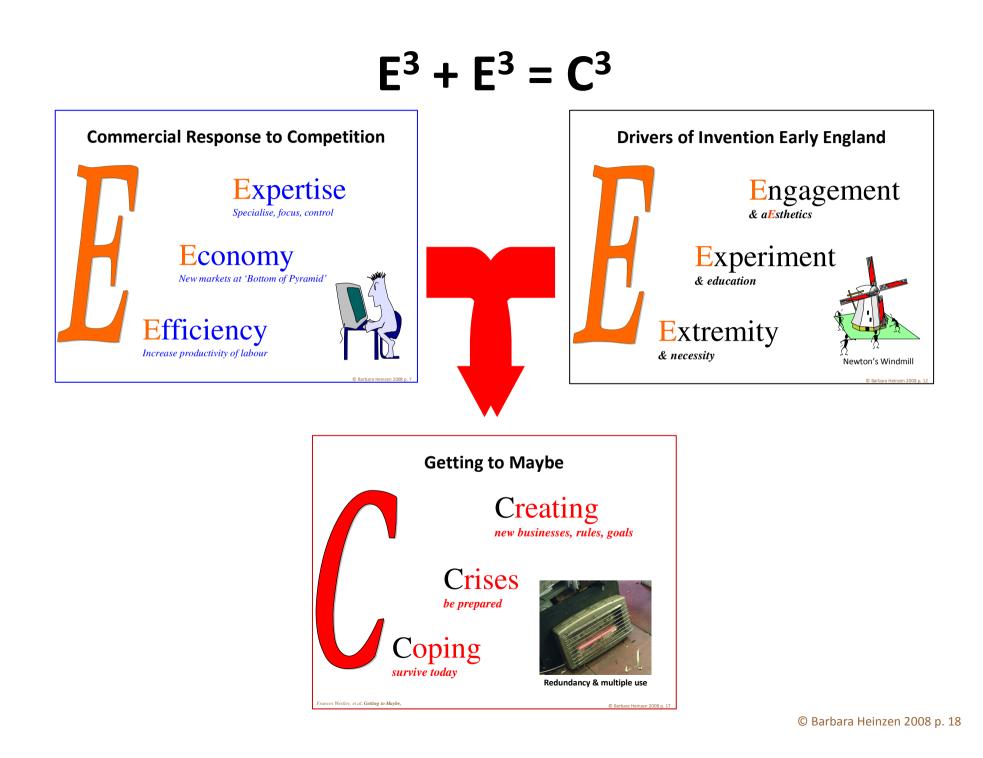


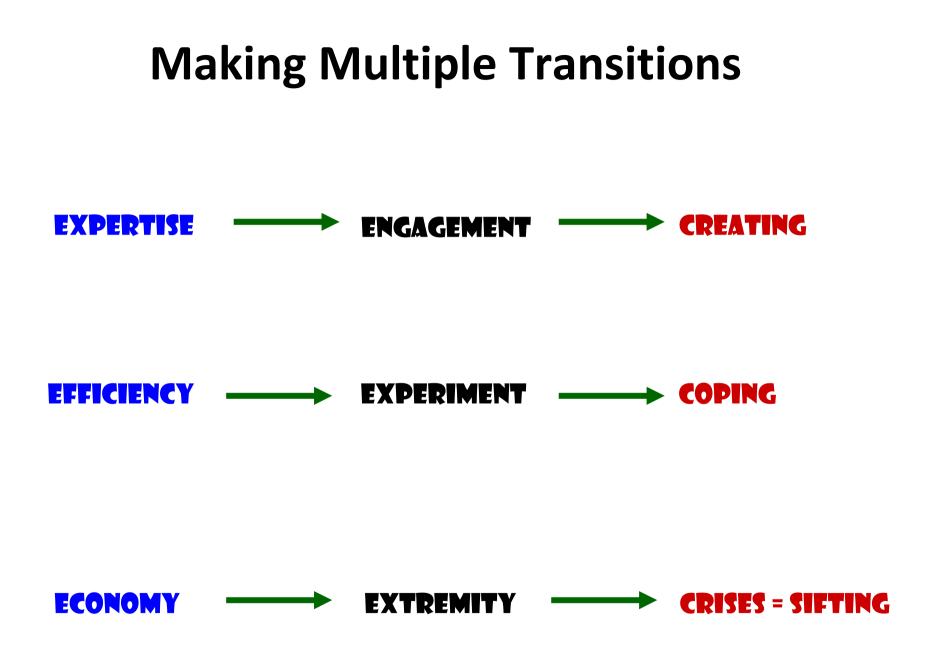
Crises

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?

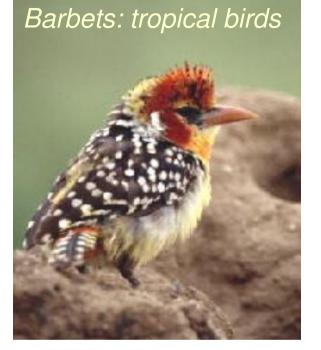
**Examples of Systemic Change** 

**Principles** 

**Experiments** 

#### **Barbets' Duet**

#### A Business Idea, Not a Charity



INVENTING New institutions

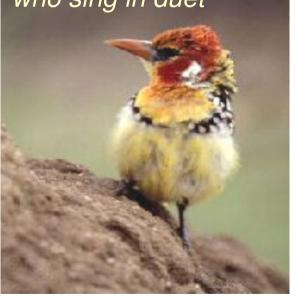
e.g. property rights & marketing structures SUPPORTING people

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"**



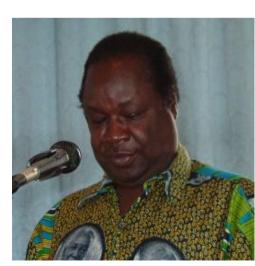
**Oby Obyerodhyambo** land in Seme, W. Kenya



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,<br/>Collectively?Finance<br/>capitalFinance<br/>microCollectively?Finance<br/>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

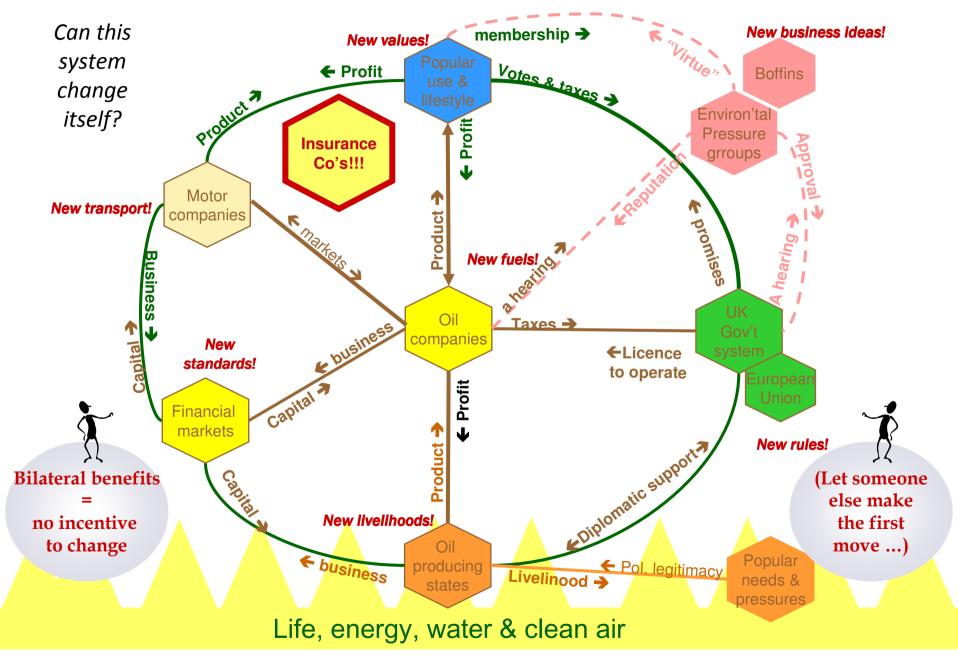
# Additional slides not used

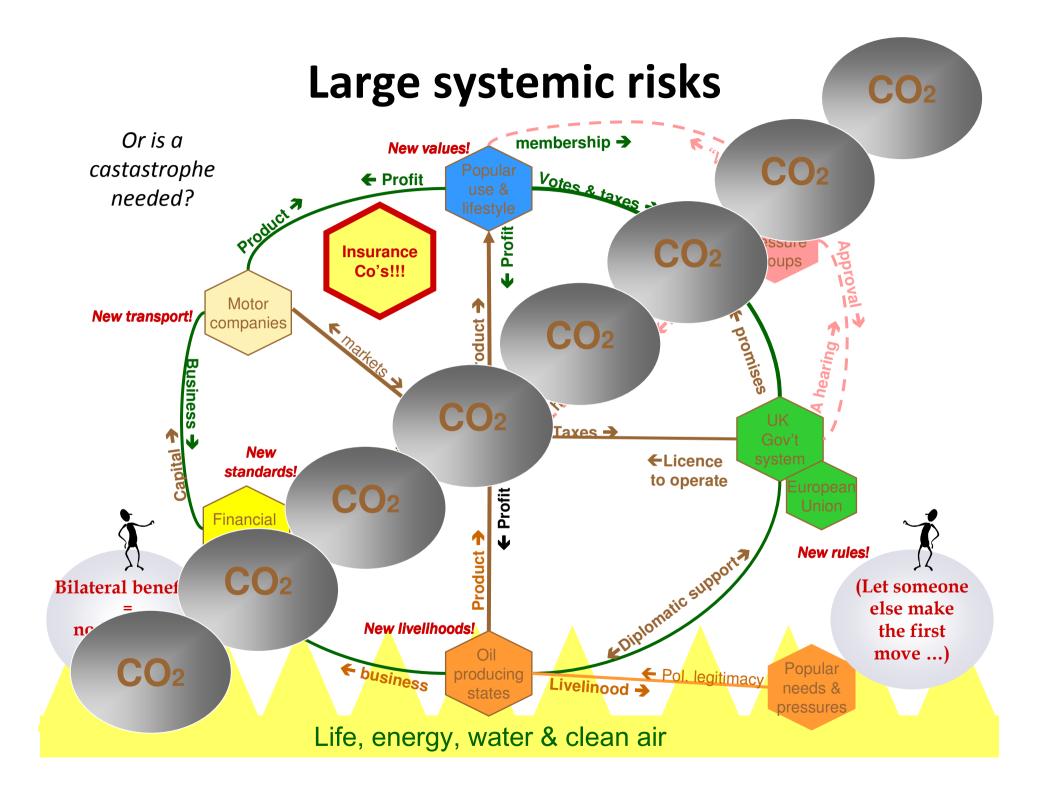
**Examples of Systemic Change** 

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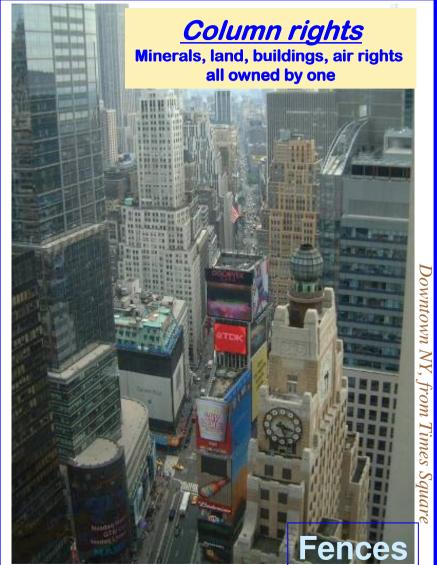
#### **Bilateral benefits for every player**





#### 2 Cultures: Mosaic Rights & Column Rights

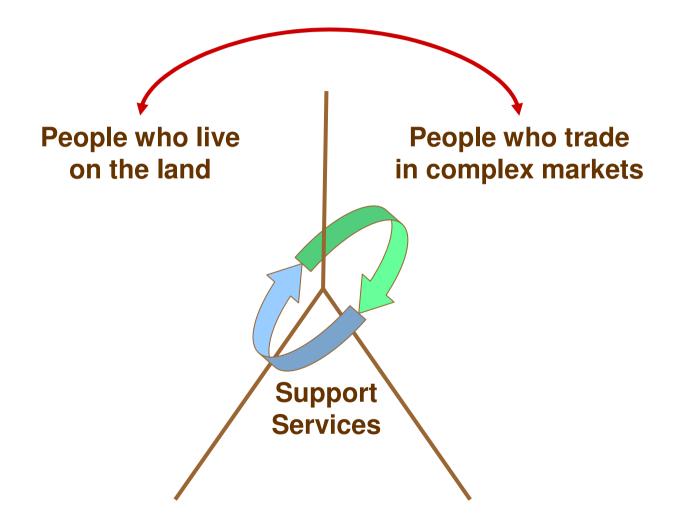
# Mosaic rights Women: food crops, Men: tree crops, Herders: grazing after harvest Gov't: mineral rights, Those who dug the well, own the water Footpaths



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

#### **Principal Relationship: People & Markets**

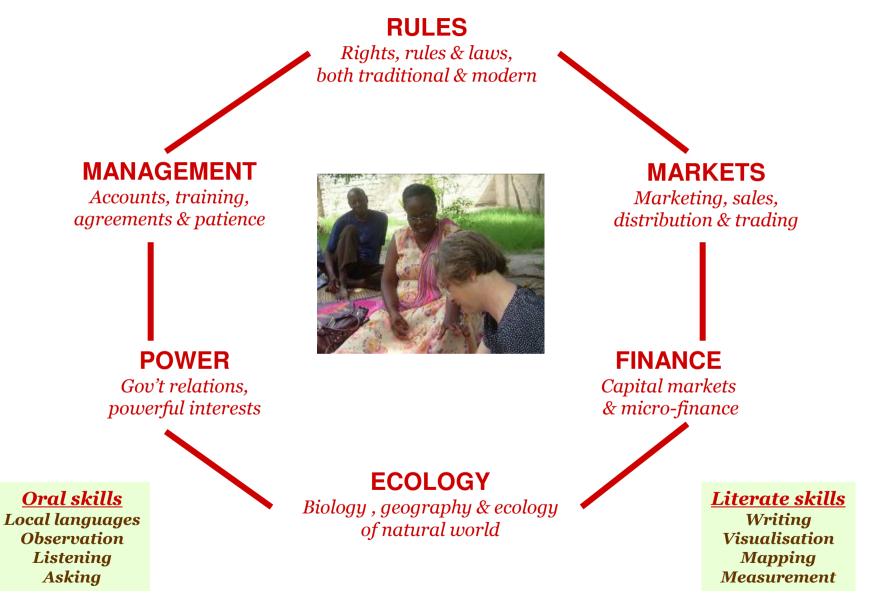
From October 2006 Conceptual Framework



#### **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	<ul> <li>Woodlots &amp; grasses</li> <li>Medicinal plants</li> <li>Domestic biodiversity (e.g. seed &amp; semen banks)</li> </ul>	<ul> <li>Flood control</li> <li>Micro-climate change</li> <li>Wild biodiversity</li> <li>Carbon sinks</li> </ul>
<b>Aesthetics</b> Fashion, bragging rights, tourism, meditation	•Edible wild: (e.g. teas, roots, bush meat) •Wild biodiversity	•Species habitats
Intellectual property Genetic reserves	<ul> <li>Medicinal plants</li> <li>Domestic biodiversity         <ul> <li>(e.g. seed &amp; semen banks)</li> <li>Wild biodiversity</li> </ul> </li> </ul>	•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