

Barbets Duet

an experiment in systemic invention

Founding Partners

Barbara Heinzen

James Magode Ikuya

Chris Jones

Rose Lyimo

Mwajuma Masaiganah

Msi Choke Seaweed Farmers Cooperative

Sammy Muvelah

Oby & Hilda Obyerodhyambo

December 2012

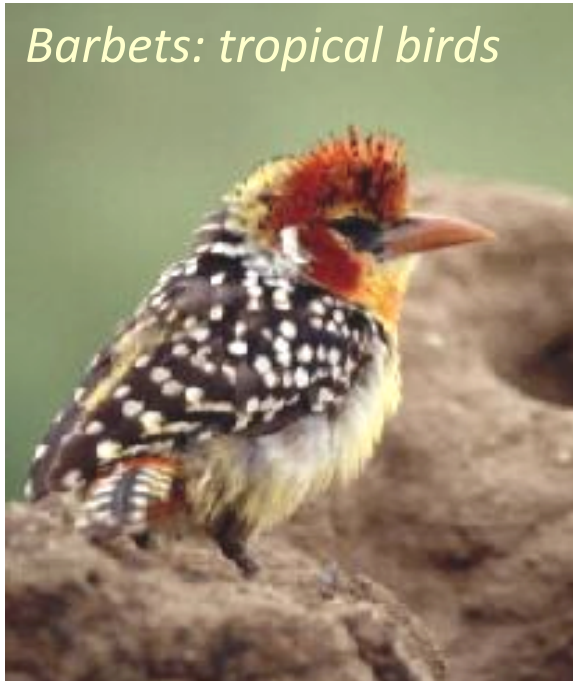
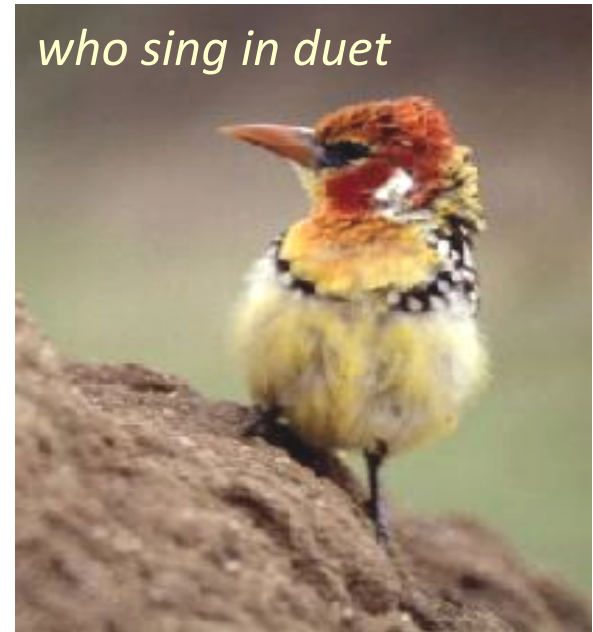
www.barbaraheinzen.com → Barbets

www.barbetsduet.com

Barbets Duet, 2006

Environmental care:
Gift → economic necessity

**A Business Idea,
Not a Charity**



Property Rights from Two Systems

Mosaic rights

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

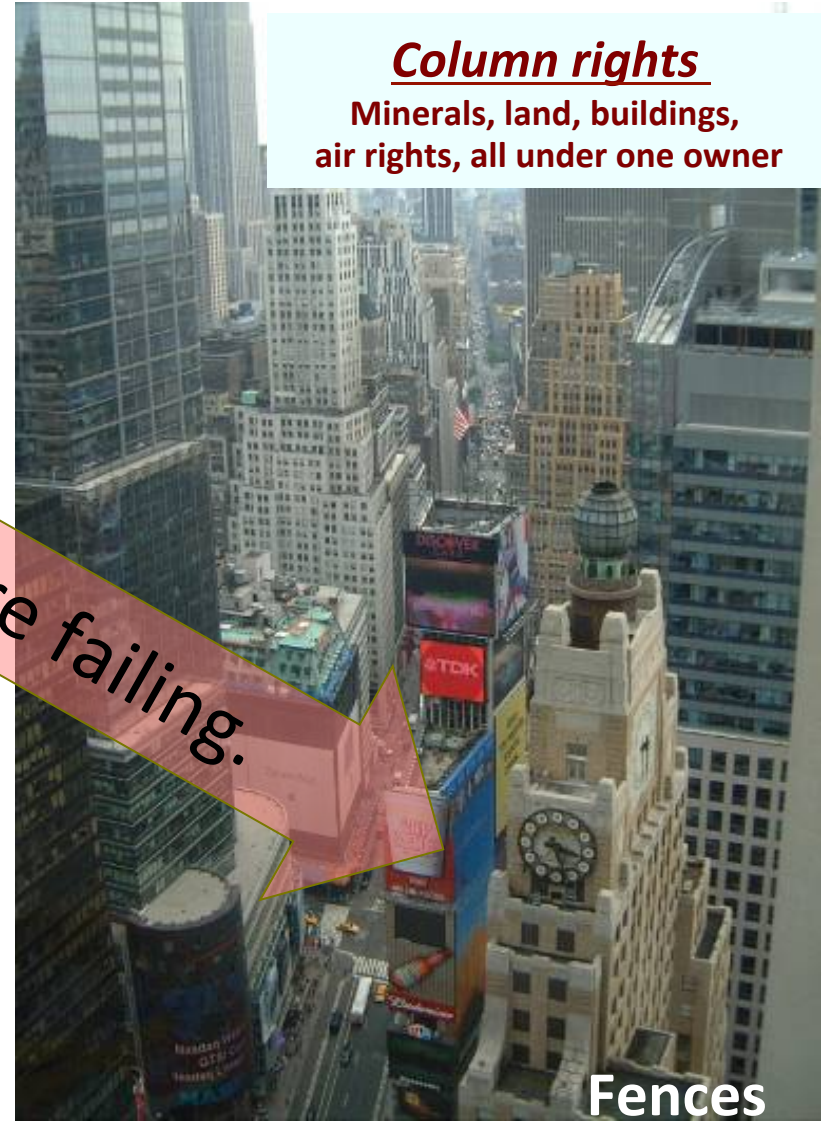


Footpaths

Fields near Mt. Elgon, Uganda

Column rights

Minerals, land, buildings,
air rights, all under one owner



Downtown NY, from Times Square

Fences

Both systems are failing.

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



Partners & Sites, 2008-2012

experiments begun, conventions & cross-learning, self-financed

**Sammy Muvelah,
Lukenya,
nr Nairobi, Kenya**



**James Magode Ikuya
Molo, near Tororo, Uganda**



**Rose Lyimo,
Himo, Tanzania**

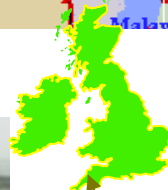


**Oby & Hilda Obyerodhyambo,
Seme, near Kisumu, Kenya**



**Msichoke Seaweed Farmers
& Mwajuma Masaiganah,
Mlingotini, Bagamoyo, Tanzania**

**Barbara Heinzen,
Coordinator, UK &
Hudson R. NY, USA**



**Chris Jones,
Woodland Valley
Farm, Cornwall, UK**



**Barbet Learning Site
Confirmed Feb08**



**Identification, protection & propagation
of useful trees;
Safari Convention, April 2011**



Magode Ikuya
Clan land, 12 families.
Writer, activist,
businessman

**Molo, near Tororo
Uganda**



**First fish pond, 2011
Molo Rural Agricultural Farming Initiative
(MRAFI)**



**Clan land: 21 km along Kanginima stream,
feeding Nile River, 2009**



**oil seeds for
cash cropping,
April 2011**

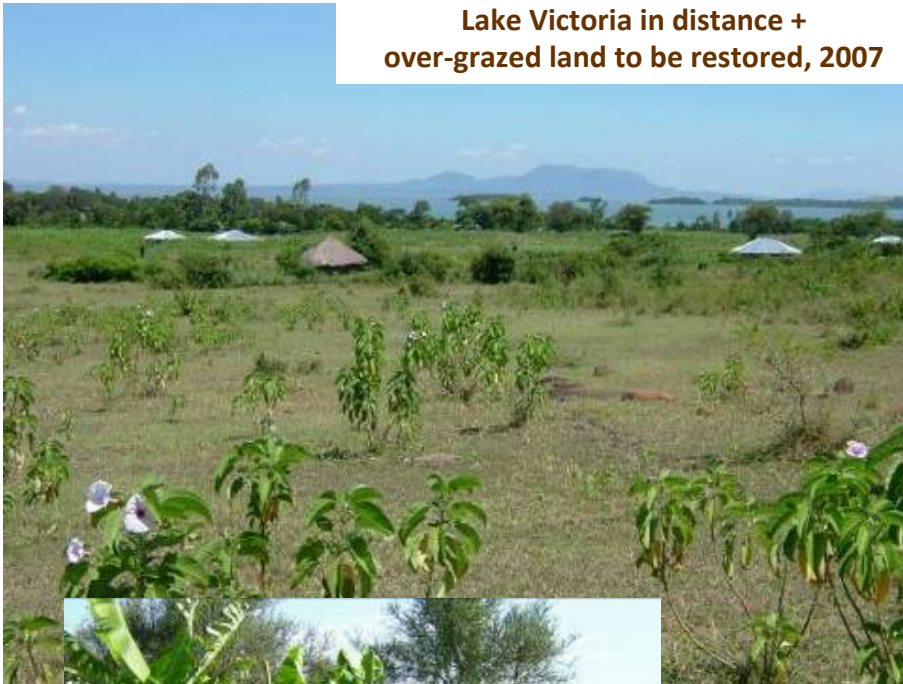


forest & swamp land cleared in previous 12 years, 2009

**Barbet Learning
Confirmed Feb08**

Seme, near Kisumu, Kenya

Lake Victoria in distance +
over-grazed land to be restored, 2007



Oby Obyerodhyambo

Kenya

Family land,
Co-author: Barbets Duet
Conceptual Framework
Photo from Safari Convention, 2011



Hilda Adhiambo

Site activities:
Water harvesting,
tree planting, medicinal plants,
training young people,
new & traditional crops



Tissue culture bananas, 2007



Identifying traditional remedies,
April 2011



First planting of *siala*, 2011
(*markhamia lutea*) for
building materials & charcoal

**Barbet Learning Site
Confirmed Feb08**

Lukenya, near Nairobi

Kenya

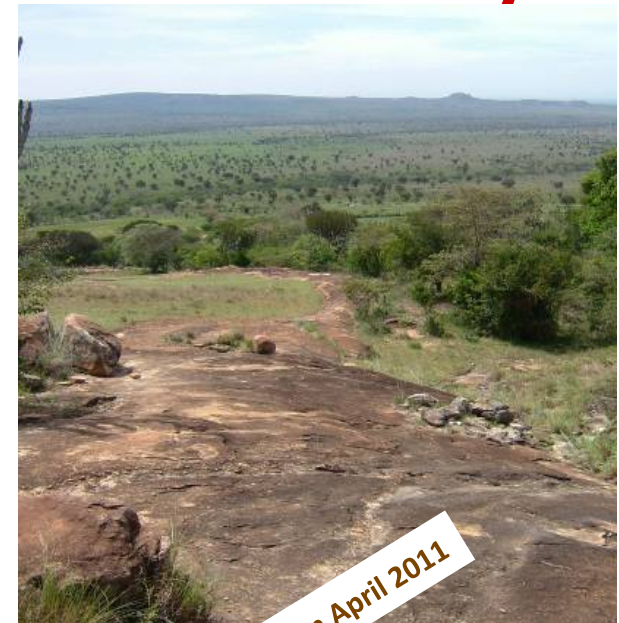


Sammy Muvelah
Fund manager,
Zimele Asset Mgt, Nairobi
Private land,
community partnership

Tree nursery



Moringa trees
dry season food
& fuel, 2011



Water harvesting – new dam April 2011



Barbet Learning Site
Confirmed Feb08

Mlingotini, Bagamoyo **Tanzania**

Msichoke Seaweed Farmers Cooperative



Members of Msi Choke, 2007

Photo Godfrey Meena



Earth Day, Dar es Salaam, June 2011
Mama Kashindo with Guest of Honor,
Mr. Steven Nkondokaye,
Vice President's Office, Assistant Director,
Department of Environment

introduced



Mwajuma Masaiganah

Founder, Mwasama School, Bagamoyo
Coastal rural development Resident of Mlingotini village



Coastal waters & seaweed farm,
Mlingotini, Tanzania, October 2009



Mwjuma Mabewa & Machani Ali,
introducing Msi Choke at Seme, Kenya,
during Safari Convention, April 2011



Mwasama School, Bagamoyo, TZ - May 2012

Mwajuma Masaiganah

Shamba Darasa

learning garden— an outdoor classroom



*During the Safari Convention,
Mwajuma Masaiganah collected seeds
used to establish a learning garden..*



**Barbet Learning Site
confirmed Feb12**

Himo, **Tanzania**



Rose Lyimo
Business woman,
Co-founder, Akiba
Commerical Bank,
Dar es Salaam



**Water flow,
Himo, 2012**



**Old garden under
irrigation**



New garden

**Barbet Learning Site
Confirmed Oct09**



Chris Jones

Family land,
Livestock farmer, forester,
nut & apple trees, Aug. 2010



Permanent organic pasture, August 2010

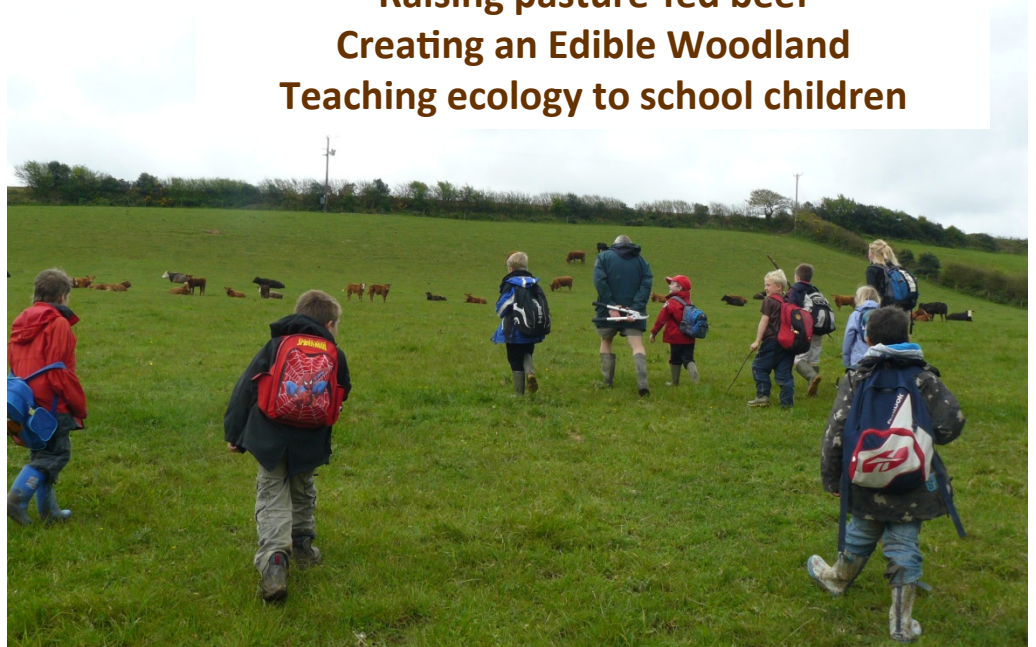
Ladock, Cornwall

England



WOODLAND VALLEY FARM

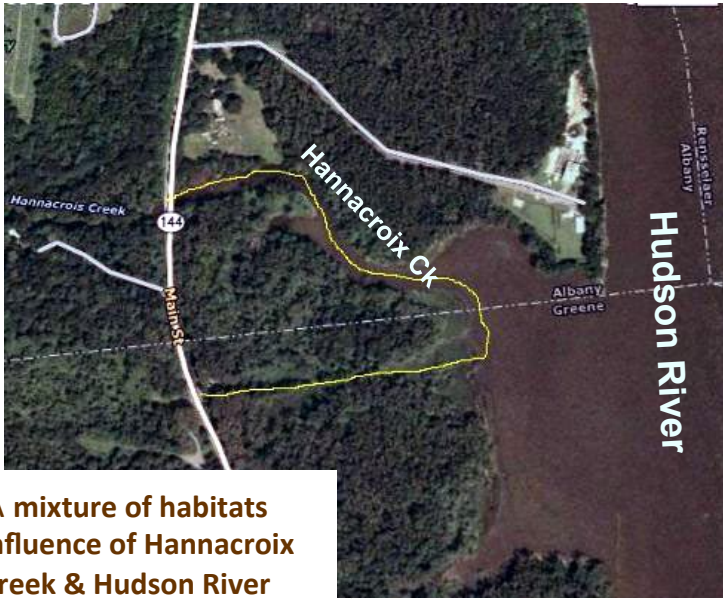
Raising pasture-fed beef
Creating an Edible Woodland
Teaching ecology to school children



**Barbet Learning Site
Confirmed May 10**

Hannacroix Creek, New York

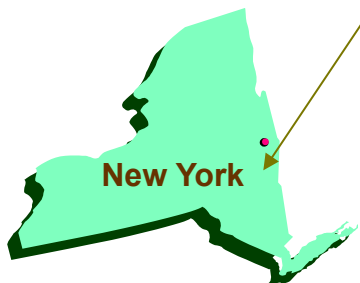
USA



**A mixture of habitats
confluence of Hannacroix
Creek & Hudson River**

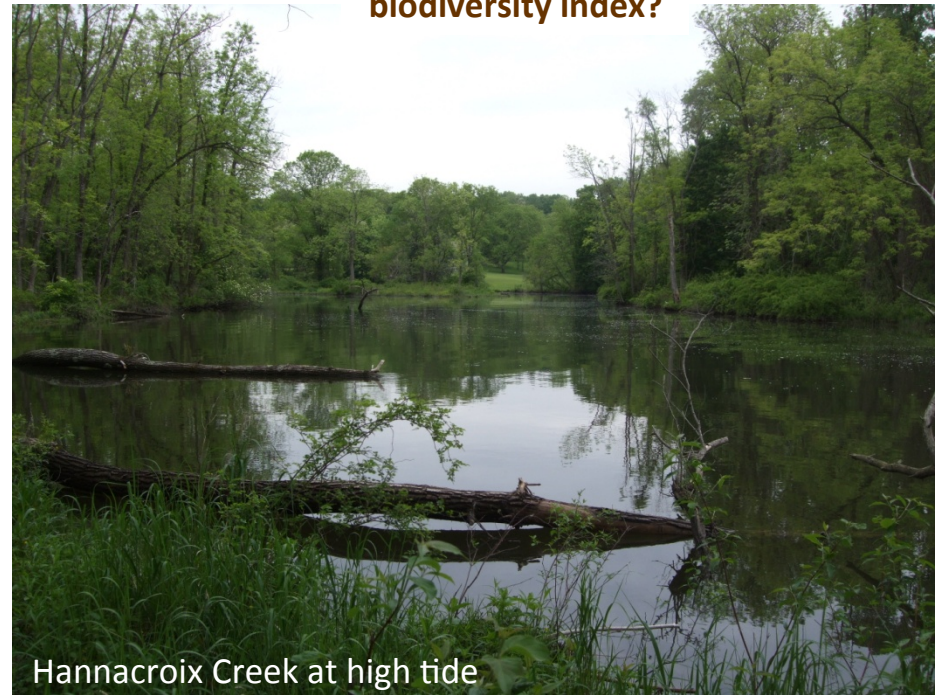


**Can we create a
simple tradable
biodiversity index?**



Barbara Heinzen

New owner of
a swamp forest on west
bank of Hudson River, at
Hannacroix Creek, New
York, USA



Hannacroix Creek at high tide

Barbet Learning Site
Jan06 - July11

Wilmington Square, London

UK



A micro-site of plant pots
in Wilmington Square, Central London.
A place to meet neighbours
& organise local events & connections

An office in Gray's Inn for:
"Making our thinking familiar" to others &
searching for the right people to join the experiment



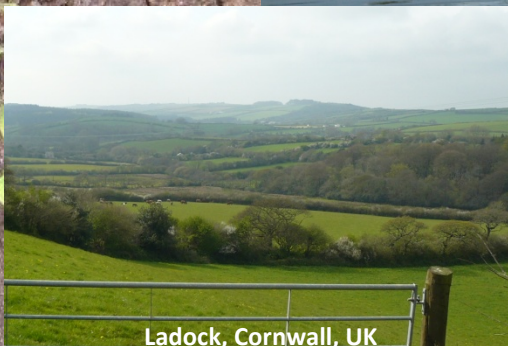
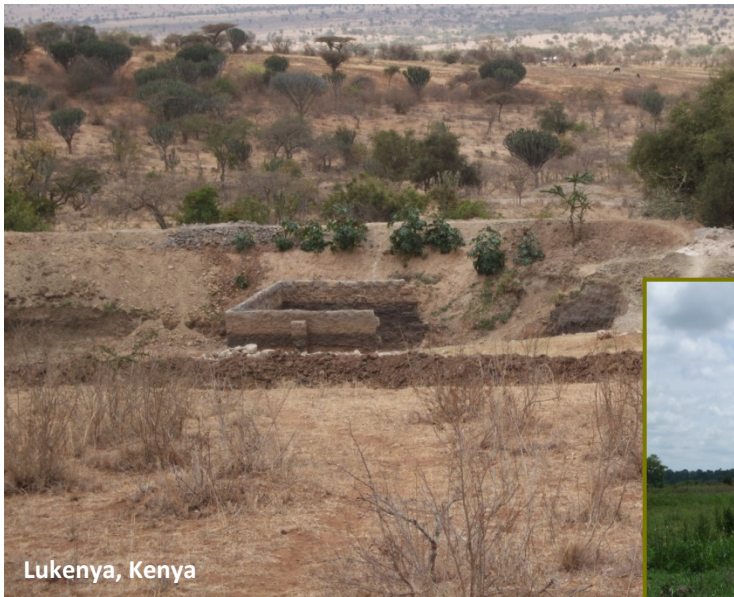
Barbara Heinzen

Independent scenario
planning practice;
co-author of
Barbets Duet
Conceptual Framework;
Author:
Feeling for Stones



Diverse Ecologies →

→ Diverse Learning



Conventions & Cross-Visits



Invention Convention, Mlingotini, Tanzania - Oct. '09
Discussing new business ideas.



Safari Convention, Molo, Uganda - April 2011
Presenting a biodiversity index formula

Oil seeds



Safari Convention, Seme, Kenya - April 2011
Identifying medicinal plants



Woodland Valley Farm & Eden Project, UK, winter 2011

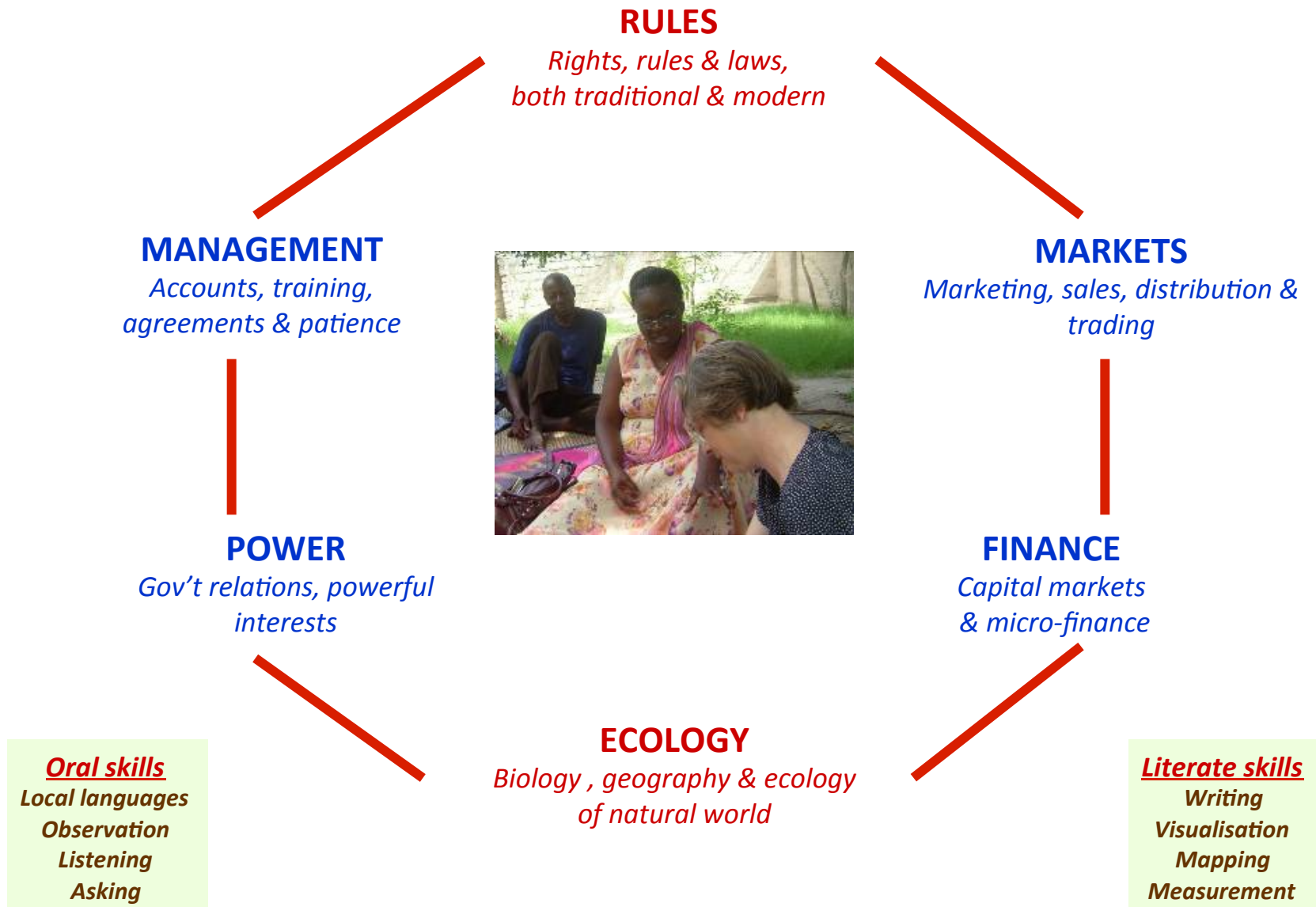
Useful Principles

Barbets Duet Working Assumptions	Initial Governance Principles	Establishing a Barbet Site
Multiple experiments & diverse sites → rapid learning	Each site evolves in its own way to its own conditions.	“Just Begin” With something that bears fruit quickly
Equity & engagement across knowledge, power & culture	There is value in coming together.	Barbet activity is consistent with its site
Give & gain: Everyone has something to give & something to gain.	In coming together, all have a stake and all share responsibility.	Shape environmental ambitions around immediate needs.
Mosaic Rights → support environmental goals.		Learning by demonstration
		Thinking step by step; one thing follows on another
		Follow the path of least resistance; start with what is most possible.
		Utu Net Benefits

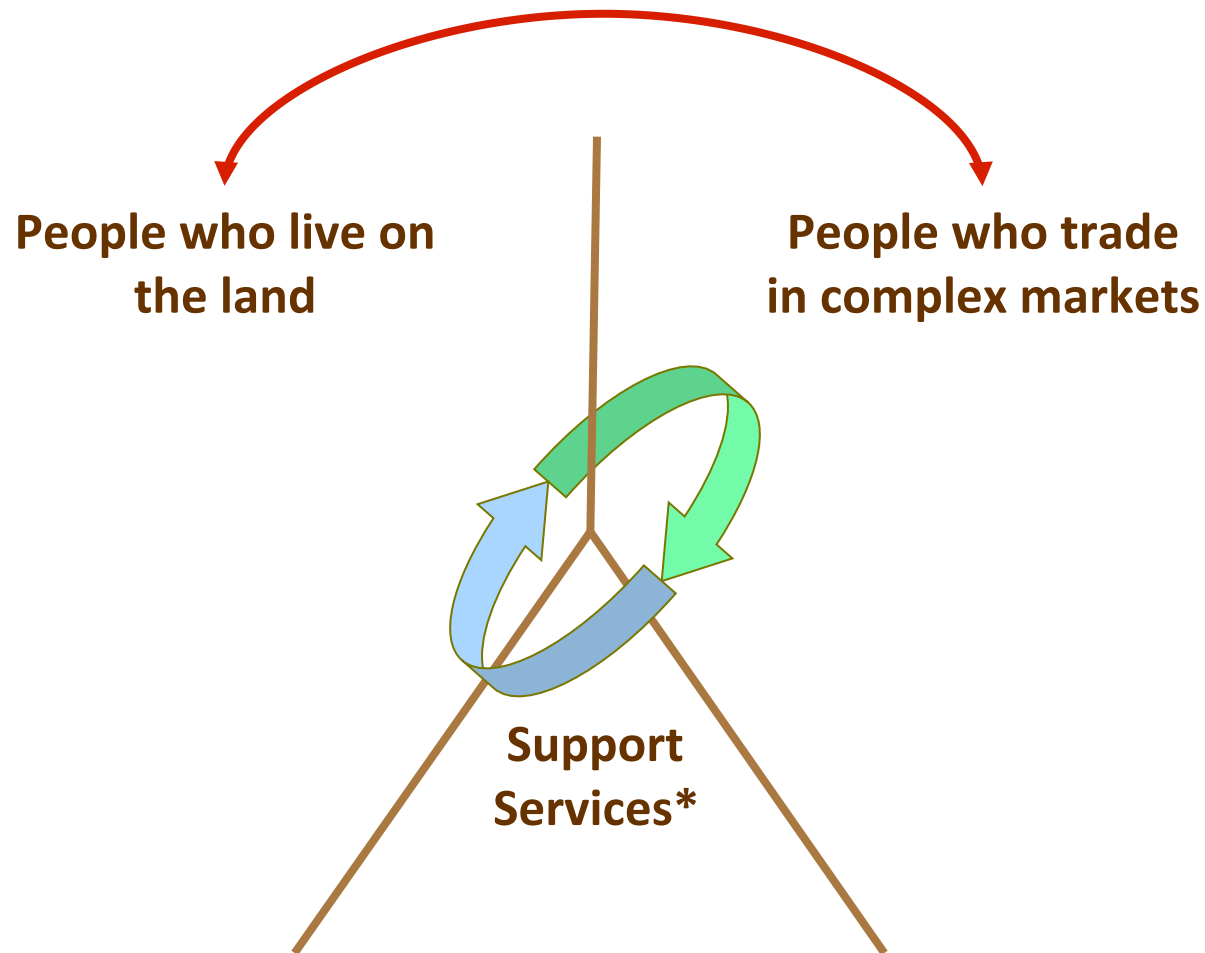
*“Rather than asking
how can Lukenya
support a Friesian cow,
I ask:
what can Lukenya support?”*
Sammy MuveLah, ‘10

<p><u>POTENTIAL MARKETS</u></p>	<p><u>Products of “Thing” Culture:</u></p> <p>Moveable products <i>Tangible, portable, Species-specific</i></p>	<p><u>Products of “Earth” Culture</u></p> <p>Environmental products <i>Intangible, immovable, Site-specific habitats</i></p>
<p>Utility: creating things we need e.g. clean water, air, food, medicine, cosmetics, building materials; biofuels</p>	<ul style="list-style-type: none"> • Timber & grasses <i>(wild & domestic)</i> • Medicinal plants • Domestic biodiversity <i>(e.g. seed & semen banks)</i> • Edible – wild & domestic <i>(e.g. roots, bush meat)</i> 	<ul style="list-style-type: none"> • Ground water recharge • Water purification • Carbon sinks <i>(e.g. swamps, grasslands, uncut forests)</i> • Waste management <i>Decomposition services</i>
<p>Insurance: reducing risks of climate change, flooding, loss of ground cover due to climate extremities; loss of food species to disease or bad weather</p>	<ul style="list-style-type: none"> • Woodlots & grasses • Medicinal plants • Diverse food supply • Domestic biodiversity <i>(e.g. seed & semen banks)</i> 	<ul style="list-style-type: none"> • Flood control • Micro-climate change • Wild biodiversity • Carbon sinks
<p>Aesthetics Fashion, bragging rights, tourism, meditation</p>	<ul style="list-style-type: none"> • Edible wild: <i>(e.g. teas, roots, bush meat)</i> • Wild biodiversity 	<ul style="list-style-type: none"> • Species habitats
<p>Intellectual property Genetic reserves</p>	<ul style="list-style-type: none"> • Medicinal plants • Domestic biodiversity <i>(e.g. seed & semen banks)</i> • Wild biodiversity 	<ul style="list-style-type: none"> • Species habitats to support genetic reserves
<p>Learning & Advisory Services Practical land management & business, Integrating income & environ’tal restoration, Managing experiments & systemic invention</p>	<ul style="list-style-type: none"> • Barbets Game • local field guides • ‘How-to’ manuals 	<ul style="list-style-type: none"> • Visitor Centres (c.f. Eden Project) • Advice on environment/economics integration • Working stays at sites

Necessary Knowledge & Experience



Principal Relationship: People & Markets



e.g. environmental monitoring, finance, advertising, PR



Tanzania, Mar 2002*

Society for International Development
East African scenarios work
1997-2008

Kenya, Tanzania, Uganda, E, African region

Ten years of social capital



E. Africa, May 2007



E. Africa, Nov 2006

Politics of learning in E Africa

29/30 April 2008

**Launch of
East African Scenarios**

Kigali, Rwanda



Uganda, 2003

* No digital photo of the Kenyan team, but many members are in the other photos.

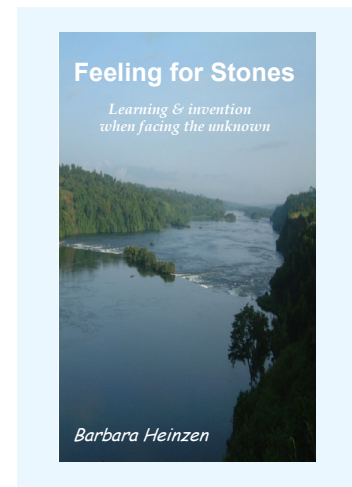
Early English Lessons in Systemic Invention

E

Engagement
& aEsthetics

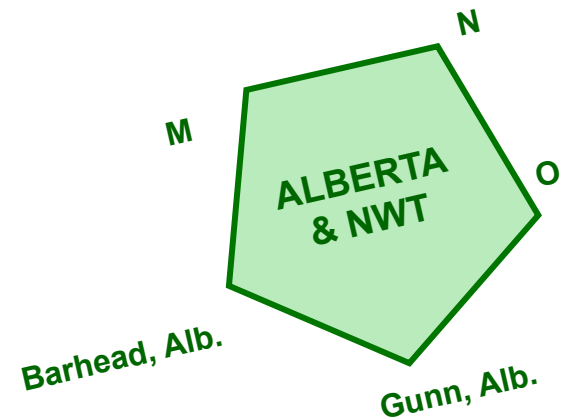
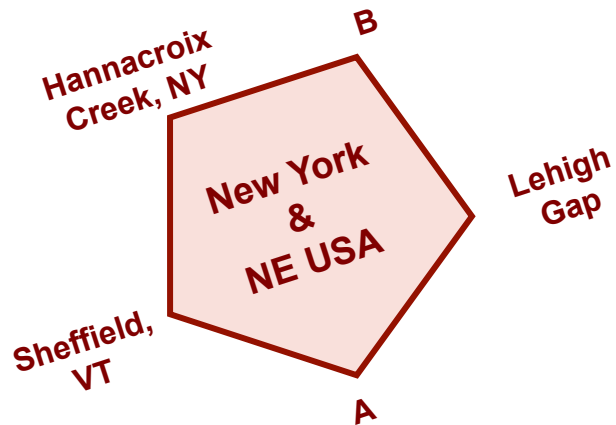
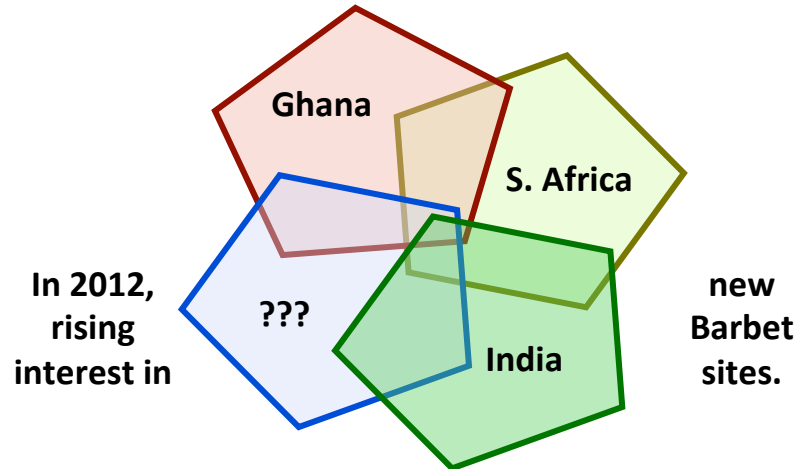
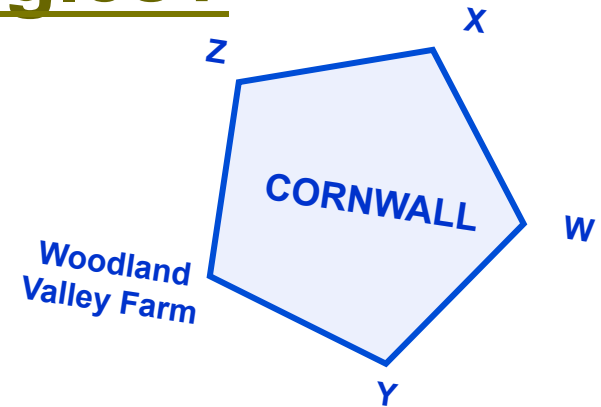
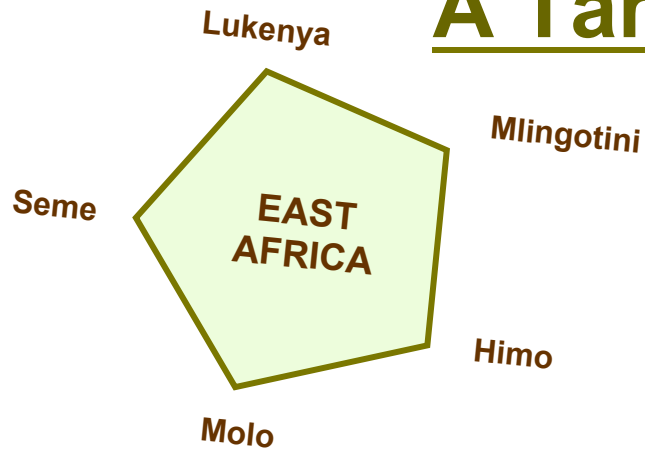
Experiment
& Education

Extremity
& NEcessity



Future expansion →
network governance

A Tangle of Pentangles?



Fundamental Issues

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**

