

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

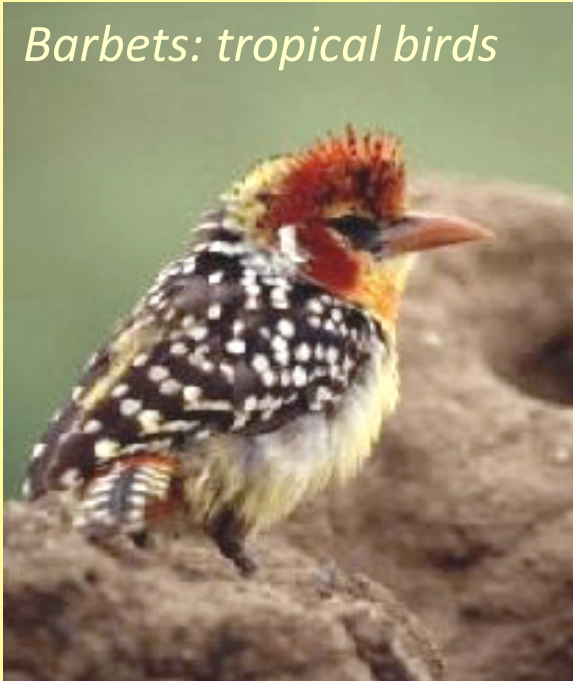
November 2016

Facebook: <https://www.facebook.com/Barbets-Duet-733881916669526/>

archive of reports: www.barbaraheinzen.com → Barbets

Barbets Duet, 2006

Barbets: tropical birds



*Environmental care:
Gift → economic necessity*

***A Business Idea,
Not a Charity***

**SUPPORT
people**

who support
the
natural world

INVENT

New institutions

e.g. property rights
& marketing structures
organisational forms

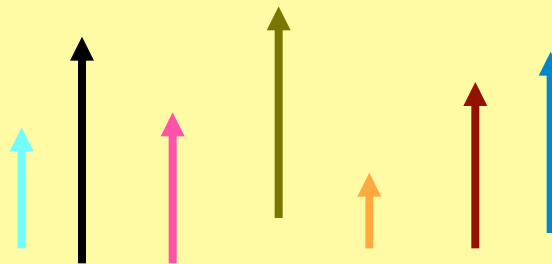
who sing in duet



**LEARN
from
2 cultures:**

**Africa + West,
Modern & Traditional**

on equal terms



**(“It will take 20 years...”
“it will take several generations”)**

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



Fields near Mt. Elgon, Uganda

Footpaths

Both systems are failing.

Column rights

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



Downtown NY, from Times Square

Fences

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

Partners & Sites, 2008-2016

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



E. Africa

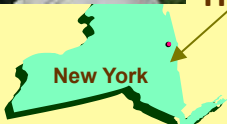
James Magode Ikuya
Molo, near Tororo, Uganda



Oby & Hilda Obyerodhyambo,
Seme, near Kisumu, Kenya



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



Chris Jones,
Woodland Valley
Farm, Cornwall, UK

Sammy Muvelah,
Lukenya,
nr Nairobi, Kenya



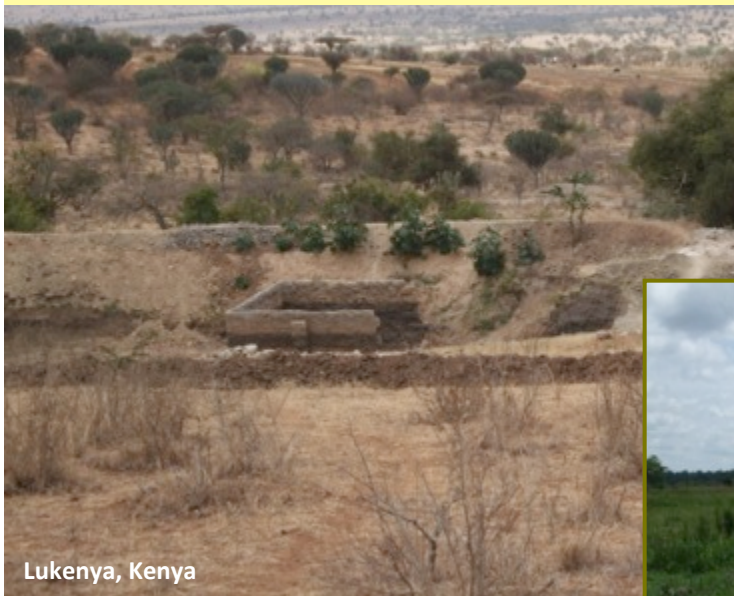
Rose Lyimo,
Himo &
Dar es Salaam,
Tanzania



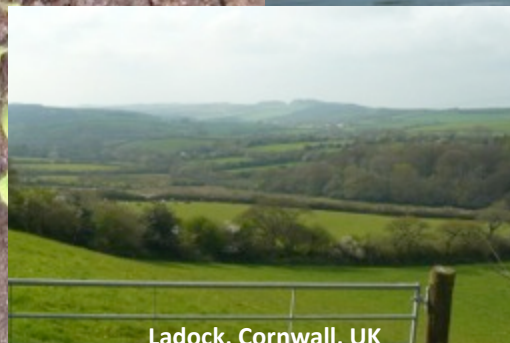
**Msichoke Seaweed Farmers
& Mwajuma Masaiganah,**
Mlingotini, Bagamoyo, Tanzania



Diverse Ecologies →



→ Diverse Learning



What We Are

Barbets Duet – A Jumuiya

A jumuiya (collective, or constellation) of learning sites experimenting with ways to support people who support the natural world.

How We Learn: Conventions & Visits



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



Rose Lyimo at the Hannacroix Creek, New York 2013



Coming of Age Convention, Molo, Uganda
Discussing the need for fences, Jan. 2016



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



Lukenya Convention, Kenya January 2014, Climbing to top of the rock used to collect water for the community dam started by Sammy Muvelah

Useful Principles – for Sites & Jumuiya

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 & social goals.	<p>We are a Jumuiya</p> <p><i>A <u>jumuiya</u> (collective, or constellation) of learning sites experimenting with ways to support people who support the natural world</i></p>	Learning by demonstration
		Thinking step by step; one thing follows on another
	<p>“Rather than ask: how can Lukenya support a Friesian cow, I ask: what can Lukenya support?”</p> <p><i>Sammy MuveLah, ‘10</i></p>	Follow the path of least resistance; start with what is most possible.
		Utu Net Benefits

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

**Barbet Learning
Confirmed Feb08**

Seme, near Kisumu, Kenya

Kenya

Oby Obyerodhyambo
& Hilda Adhimabo

Family land,
Oby is co-author: Barbets Duet
Conceptual Framework



“Sacred grove” at compound gate, 2014,
protected area of plants & trees



Hilda chairing
session in Molo,
2016



Oby water harvesting in Seme, 2011



Tissue culture bananas, 2007

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

Identifying traditional remedies,
April 2011



Piggery, 2014
Goats added in 2016

Barbet Learning Site
Confirmed Feb08

Msi Choke, Mlingotini

Msichoke Seaweed Farmers Cooperative

Tanzania

introduced



Discussing soap production at Msi Choke office 2016



Mama Gashindo, Msi Choke Chairwoman



Mwajuma Masaiganah,
Msi Choke neighbour in
Mlingotini village



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



Chris Jones, UK, visiting Msi Choke
seaweed farm, 2016



**Barbet Learning Site
Confirmed Feb08**

Lukenya, near Nairobi **Kenya**

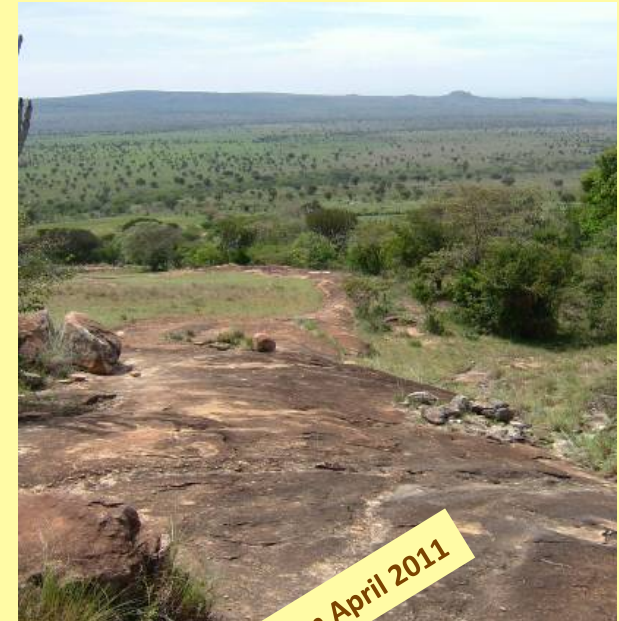


Sammy Muvelah
Fund manager,
Zimele Asset Mgt, Nairobi
Private land,
community partnership

Tree nursery



Moringa trees
dry season food
& fuel, 2011



Water harvesting – new dam April 2011



**Barbet Learning Site
Confirmed Feb08**



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



Magode Ikuya

Clan land, 12 families.
Writer, activist,
businessman

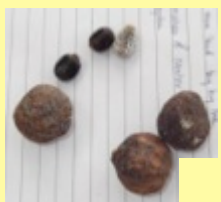
**Molo, near Tororo
Uganda**



**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 Site
Confirmed Oct09**



Chris Jones

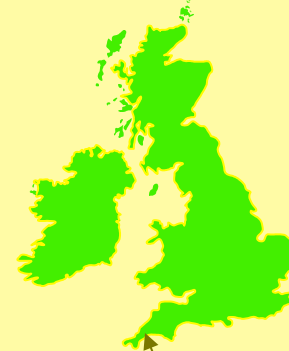
Family land,
Livestock farmer, forester,
nut & apple trees, Aug. 2010



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

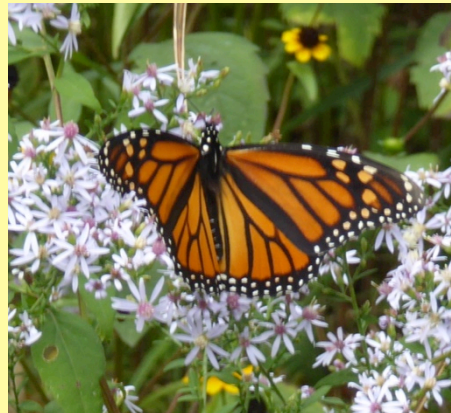


Rose-breasted grosbeak

Can we create a
simple tradable
biodiversity index?

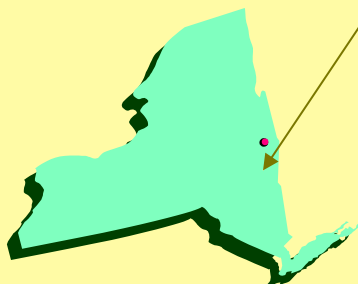
Barbara Heizen

2010 owner of
a swamp forest on west
bank of Hudson River, at
Hannacroix Creek, New
York, USA, gardener



First monarch butterfly found
in new native plant garden,
Sept 2016.

New York



Hannacroix Creek at high tide

Various habitats at mouth of Hannacroix Creek on Hudson River

**Barbet Learning Site
confirmed Feb12**



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



Himo, Tanzania

**Customary canal
watering the site 2012**



Baba Dan (L) and Hans Mtika (R): new joint management of site



2012: Tree planting during Himo Convention, 2012

Barbet Learning Site in
May, 2012

Mwasama Pre & Primary School

Bagamoyo, TZ



*Mwajuma Masaiganah, Feb 2016
Founder of Mwasama School;
Partner, Barbets Duet; plant collector*



Mwasama School 2012

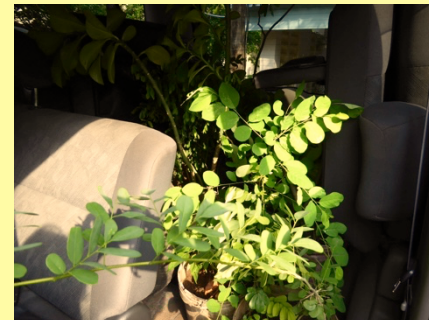


Shamba Darasa

*“Garden classroom”
Planting trees from Himo, TZ 2012*



*Plants from Anne Outwater’s garden
of native plants in Dar es Salaam, are
taken to Mwasama, Feb 2016.*



Barbet Learning Site in
February 2016

Cichlid Breeding

Dar es Salaam



Hans Mtika, Rose Lyimo's son

In 2014, Hans, started a business to collect, breed and export Rift Valley cichlid fish to international collectors.

Hans expects to work with local divers working at the Lakes to ensure that fish stocks are maintained.

This will require, he said, "a change of mentality".

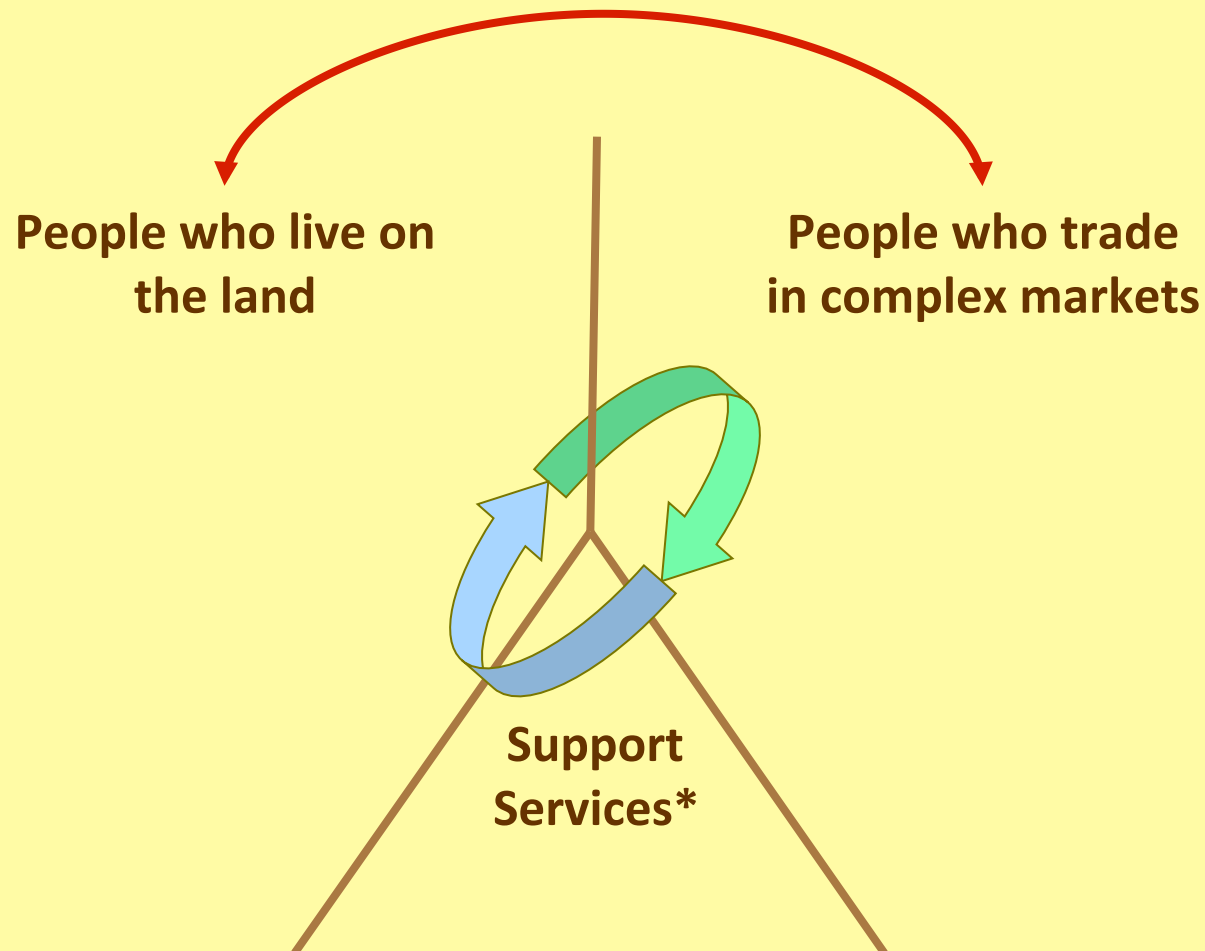


Four types of cichlid fish



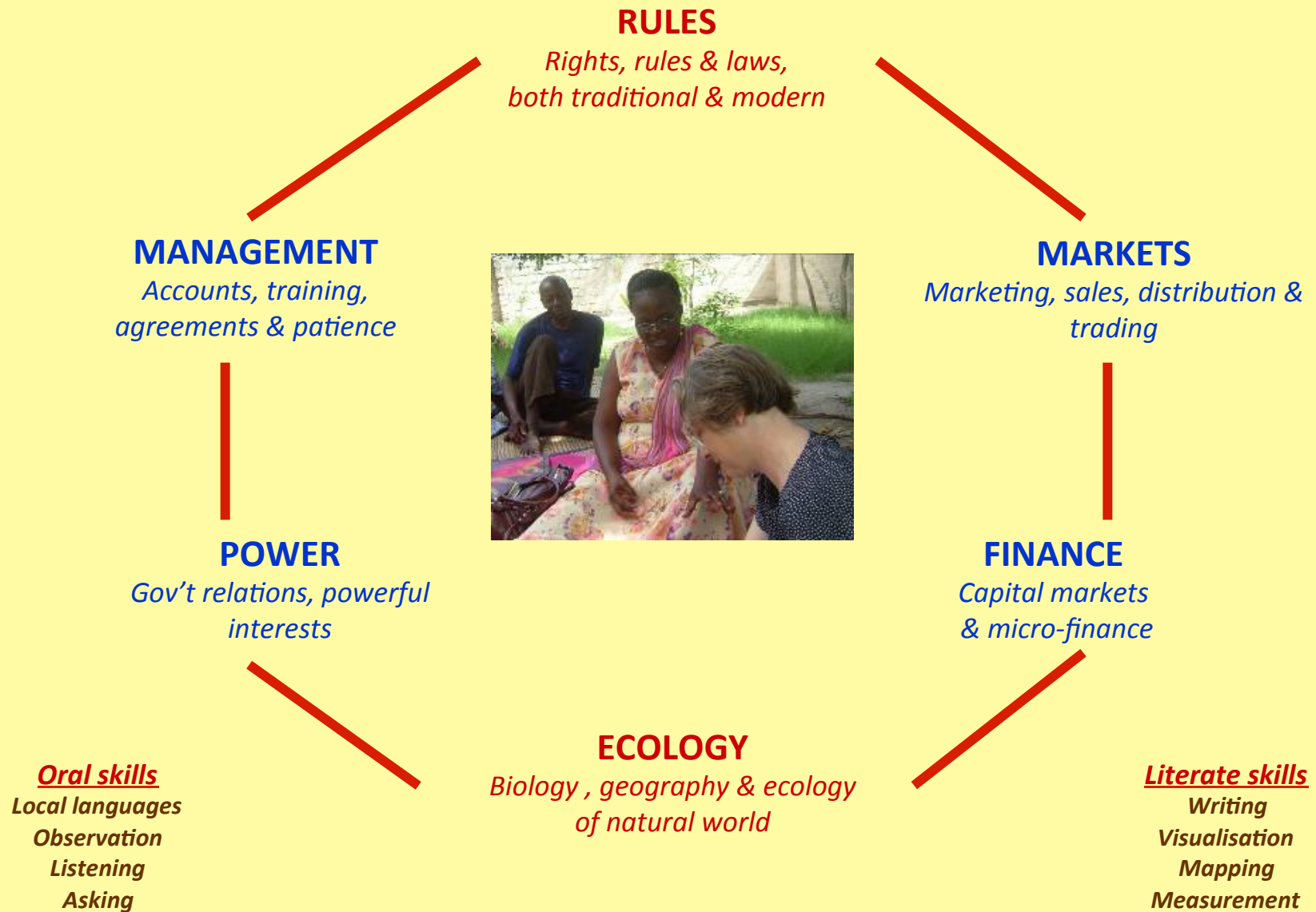
Tanks for holding fish before export

Principal Relationship: People & Markets



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

Necessary Knowledge & Experience



Lessons - 2016



No deadlines

*“Rebuilding takes time...
We never gave ourselves
a deadline.”*



Mistakes are okay.

*“We try, we make
mistakes, we learn,
we try again.”*



Restoration & economy can work



Multi generational

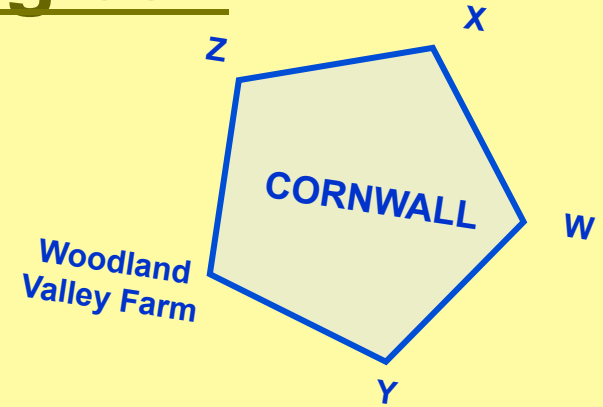
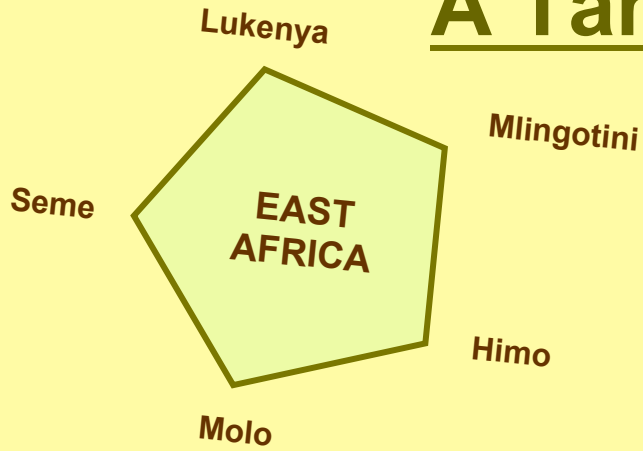


“Restoration is not contradictory to economic activities ...”

<p>We have only begun ...</p> <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, immoveable, 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

Future expansion →
network governance

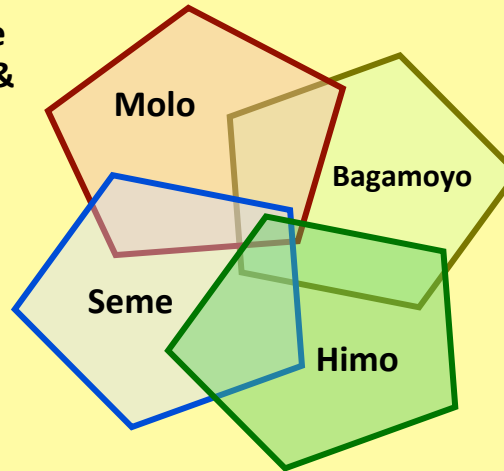
A Tangle of Pentangles?



Community dam, Lukenya



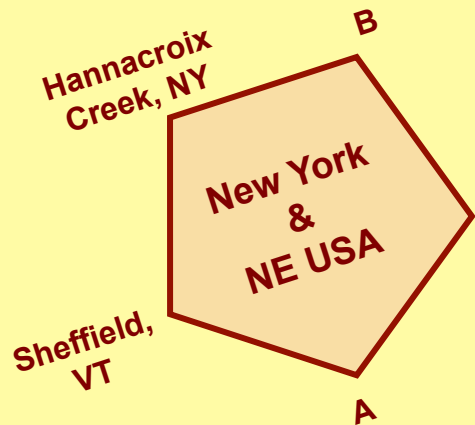
Each site
inspires &
finds ...



... new
Barbet
sites.



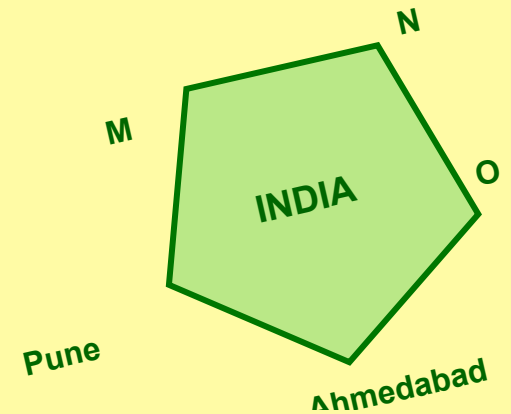
Community
garden, Cornwall



Lehigh
Gap



Tanzanian Woodcarvers Association,
Dar es Salaam...



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**