



A model PPP for a green economy: a case of L. Naivasha

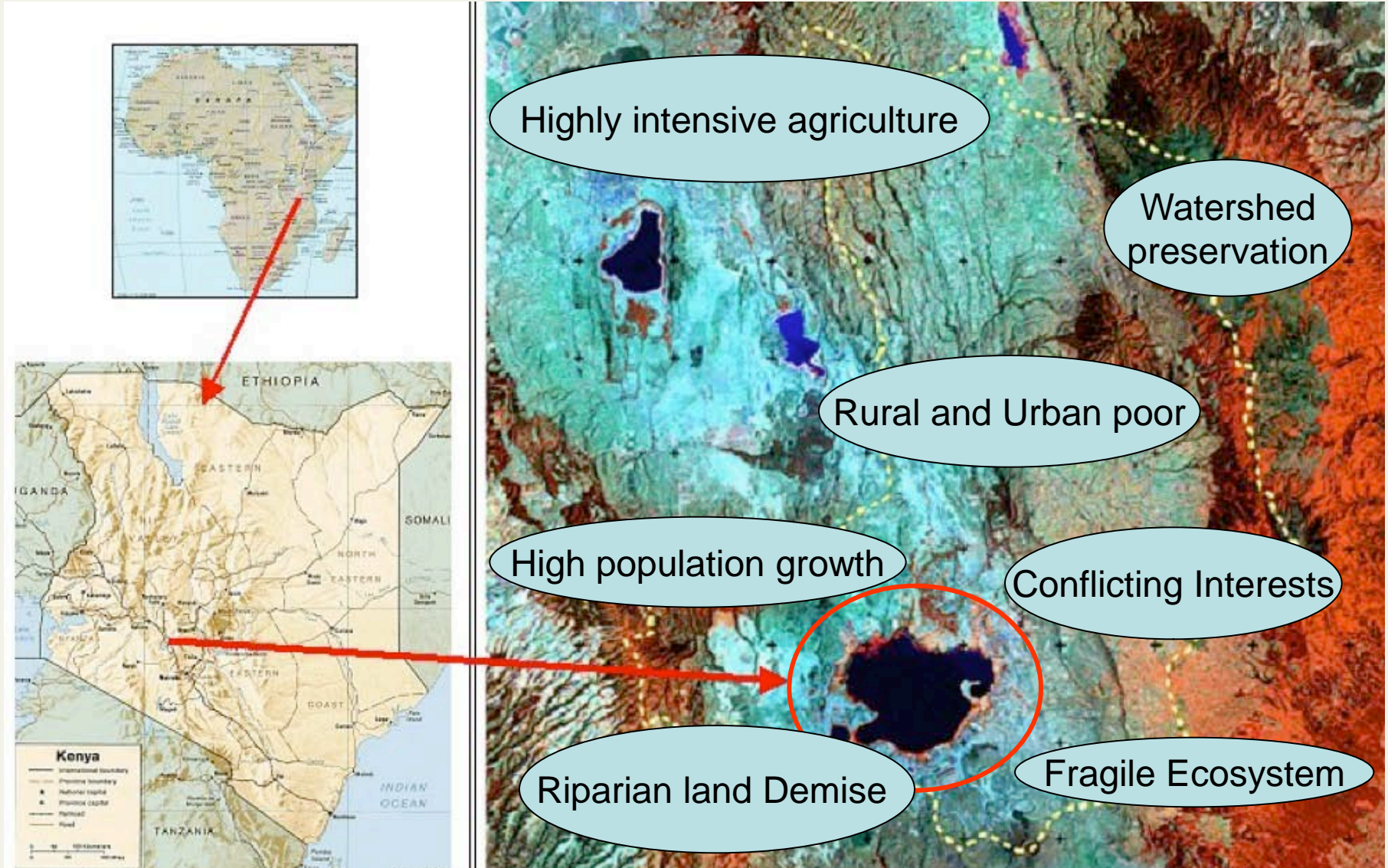
Batula Awale

WWF Kenya

4th October, 2011

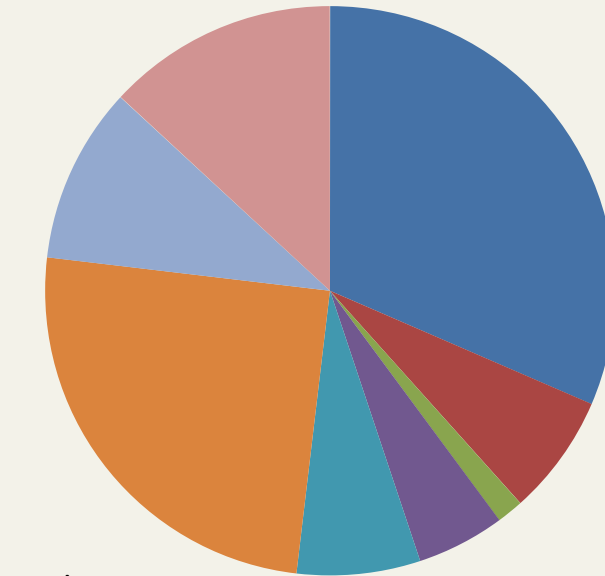
UN water conference, Zaragoza

Why the Naivasha basin?





Economy of Naivasha Local GDP



- Flowers
- Vegetables
- Tourism
- Construction & manufacturing
- Energy
- Trade & services
- Government
- Other

Naivasha local GDP KSh 40 billion (2% - 3% of Kenyan GDP)



What are the threats and drivers?

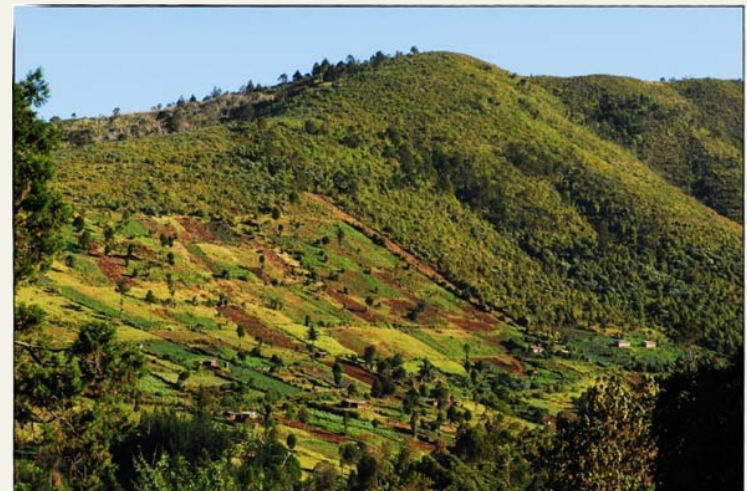


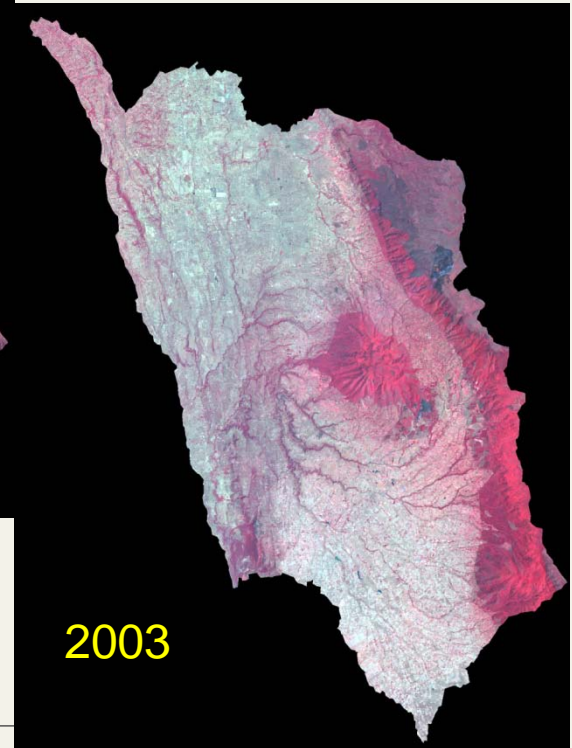
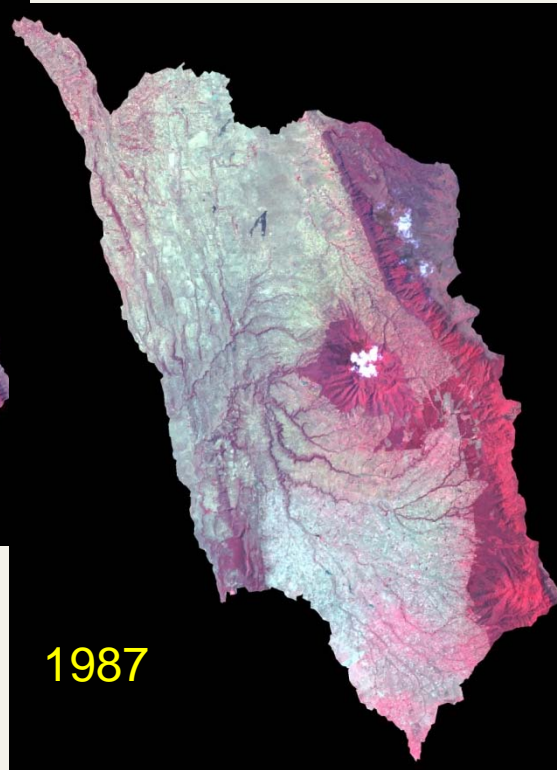
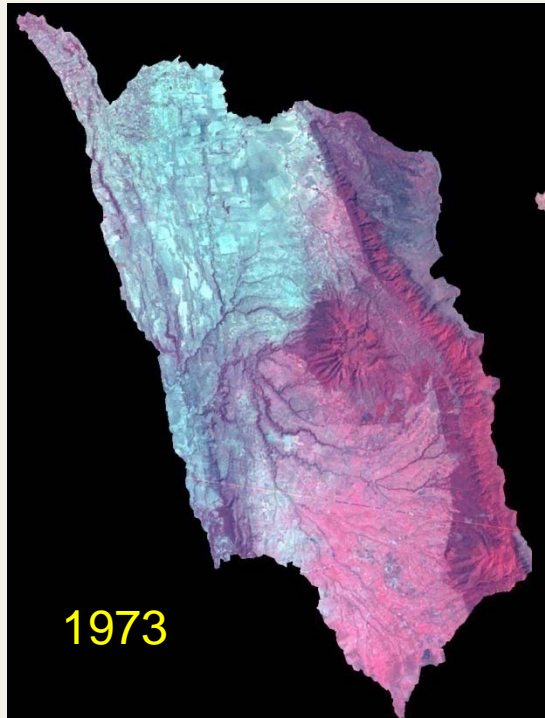
Threats:

- Catchment degradation
- Poor land management
- Weak policy enforcement
- Declining water inflows
- Increased pollution
- Lake water fluctuation due to water extraction
- Decreasing rural poor livelihoods

Drivers:

- Population growth
- Unsustainable development
- Weak institutional framework
- Inadequate institutional capacity

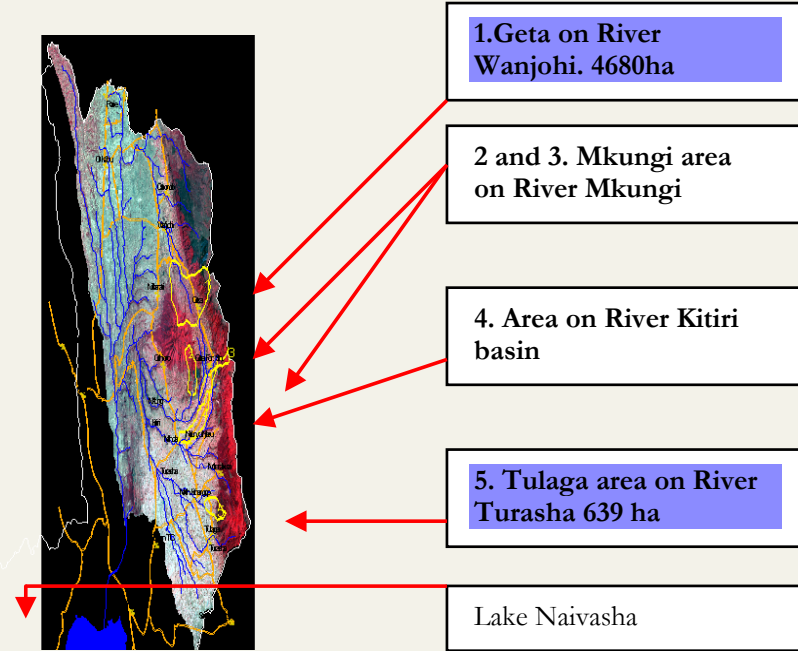
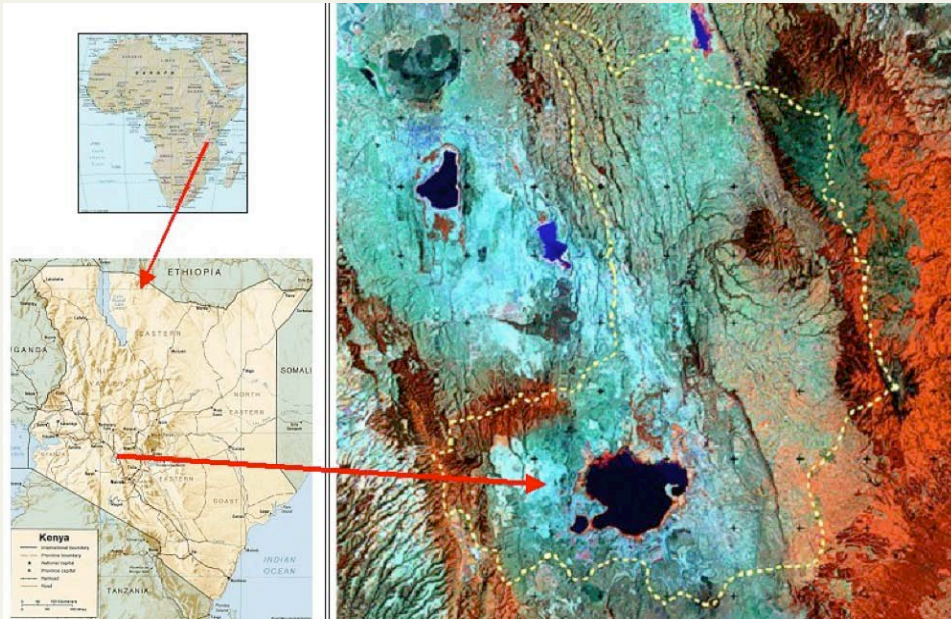




- Land fragmentation
- Intensive agriculture
- Deforestation
- River bank clearing

The deeper the RED the dense the forest cover

Selected Sub-basin PES Sites



PES Project sub-basin targets

Source: J.M. Gathenya



Criteria for selection of target subbasins

- Water yield from sub-basins
 - Total water yield
 - surface water yield
 - Groundwater contribution to flow
 - Sediment yield from sub-basins
 - Also considered
 - Population density and poverty
 - Land use/ land cover dynamics
 - Potential buyers and sellers
-



PES Implementation Process

Site selection based on:

- (i) Hydrology assessment
- (ii) business case
- (iii) Impact on livelihood improvement
- (iv) Legal framework

Community (Buyers, Sellers) mobilization

Selection of target farms

Mapping and laying out

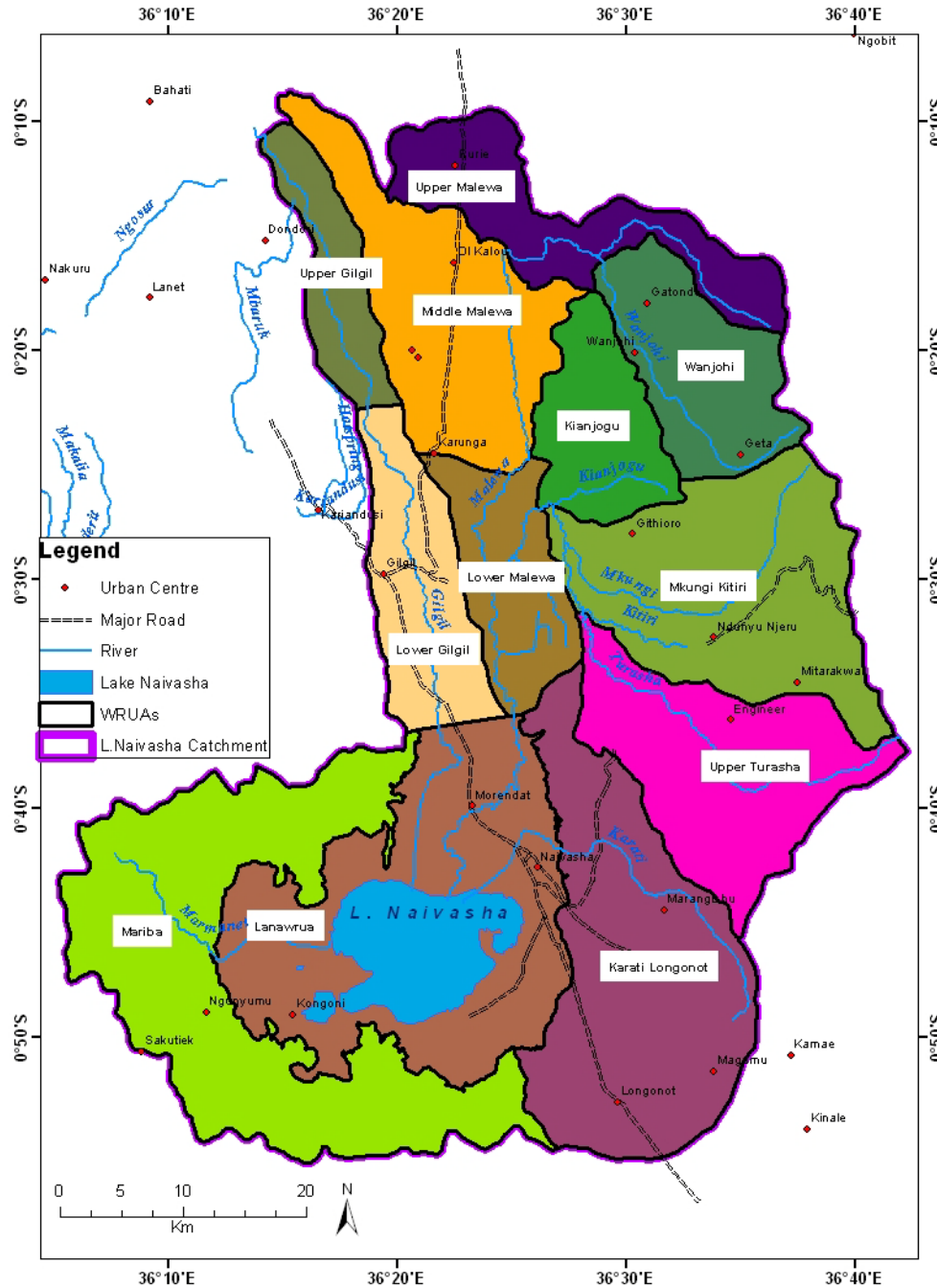
Buyer-Seller contract/agreement

Incentives

Hydrology monitoring

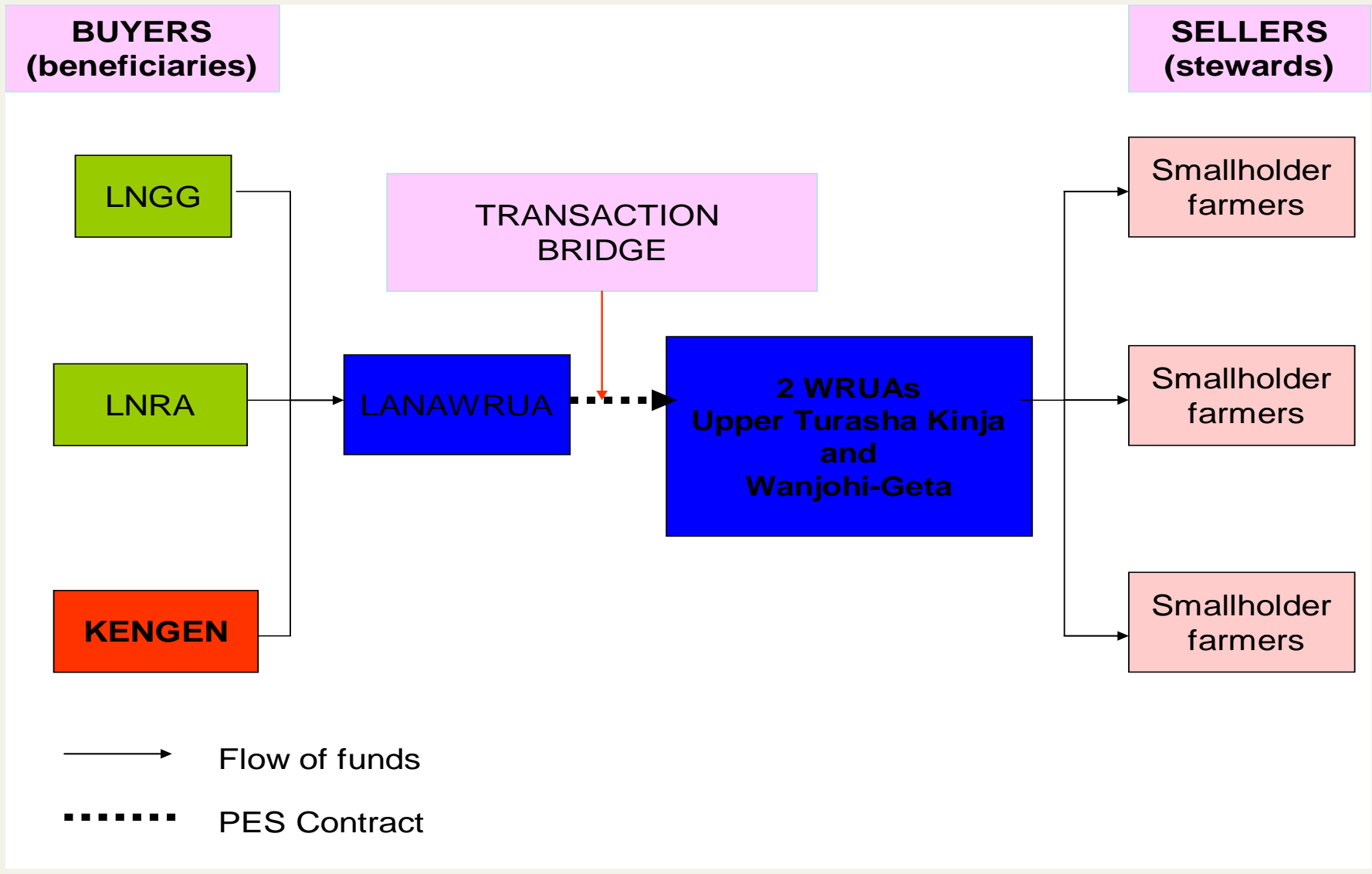


L. Naivasha Water Resources Users Associations



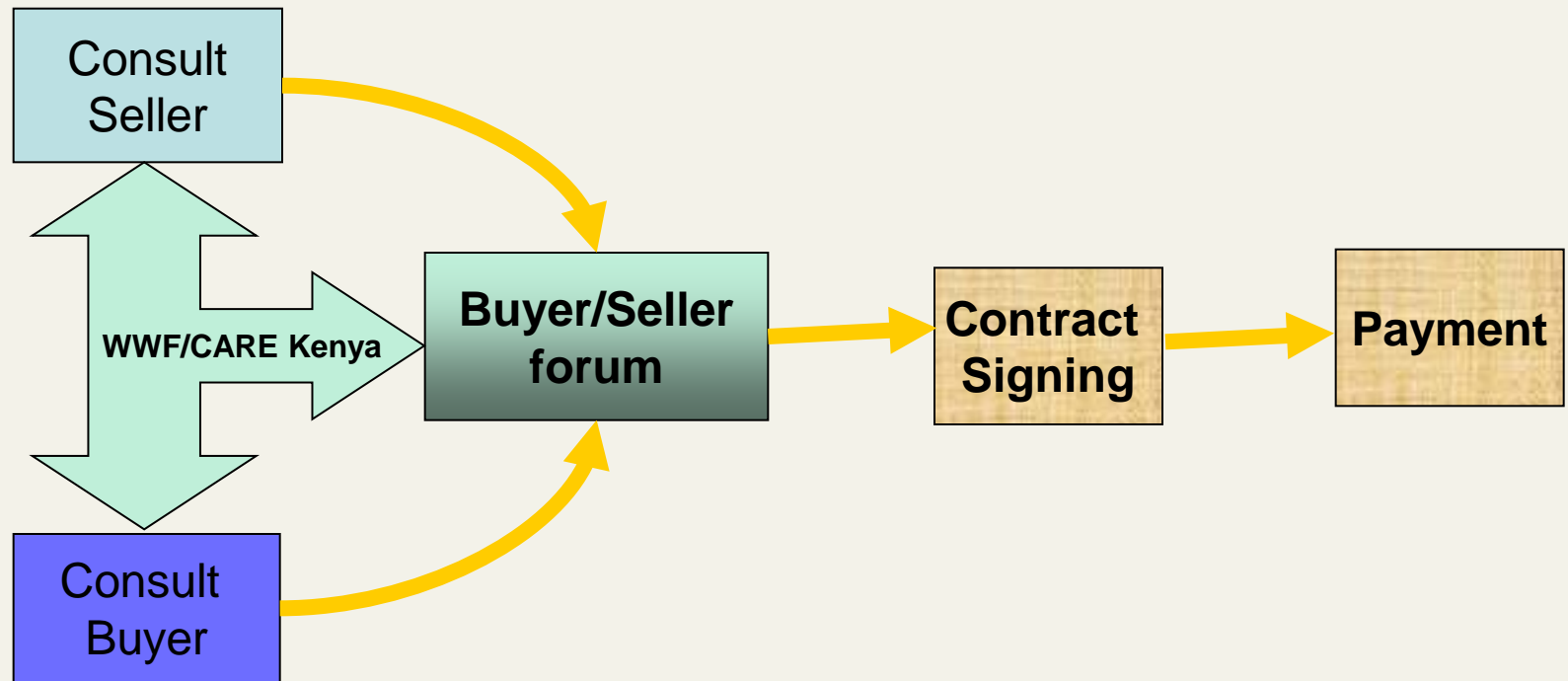


PES - mechanism in the Naivasha





PES Negotiation process






Two PES farms (Before and After)



Key Message

- 
- Naivasha Basin is a complex, fragile ecosystem
 - Important economic hub that has local, national and international significance
 - Sustainability of economic development is dependant on sustainable input of ecosystem goods and services
 - PPPP provides an opportunity for a win-win situation for sustainable investment and livelihood



Challenges

- Very high demand for change
 - Unpredictable weather pattern
 - Degraded public lands
 - Complex land ownership
 - Low buyers buy-in
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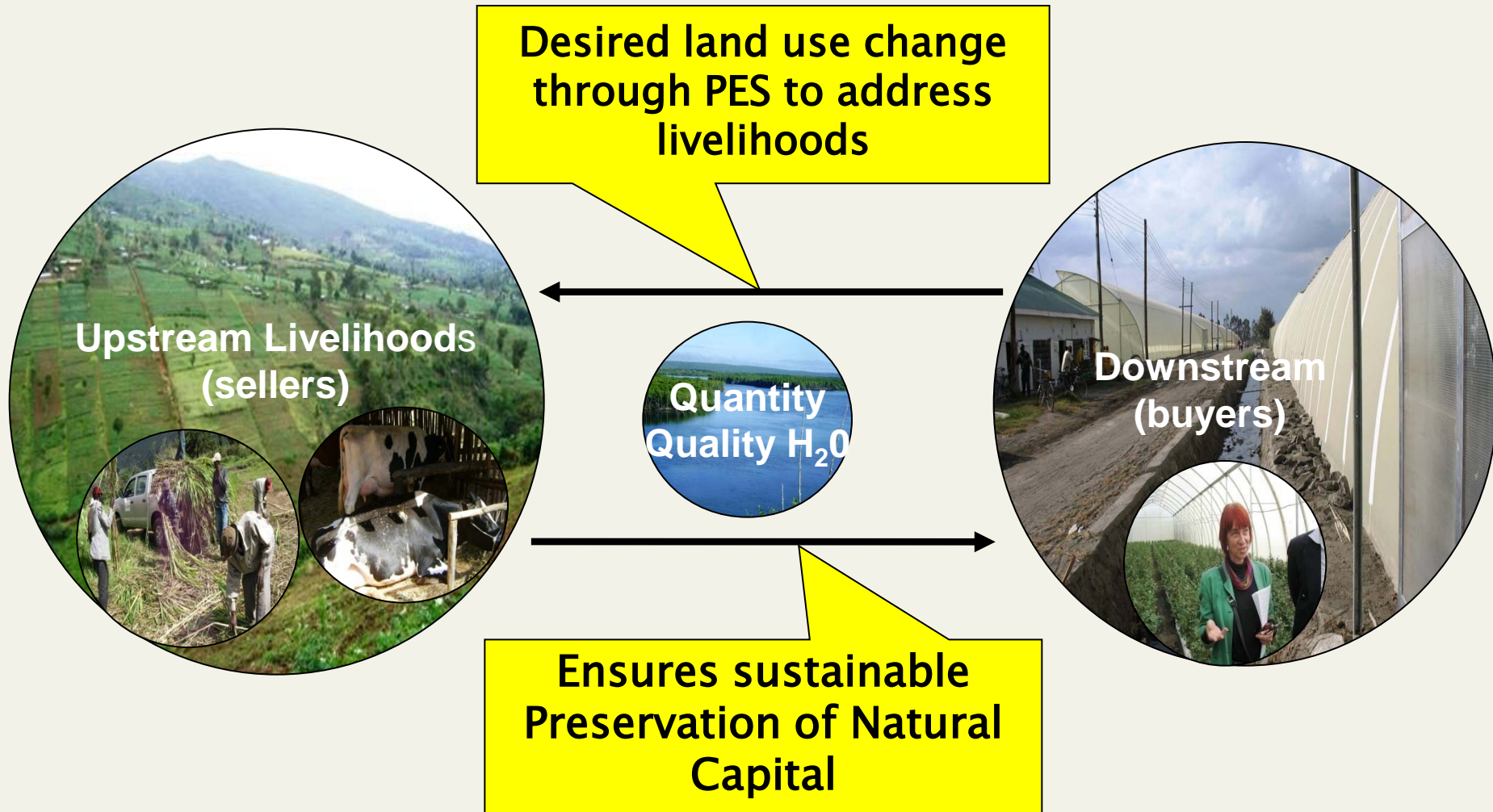
PES Partners




- Development partners- DGIS,
 - NGOs – WWF & CARE
 - Government - MWI & WRMA, MoA
 - Civil Society & Communities –WRUAs, CFAs, LNRA
 - Private Sector – LNGG, individual farms
-



WWF Experience... Livelihood Linkages



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PAYMENT FOR ENVIRONMENTAL SERVICES (PES)

LINKING UPSTREAM WATERSHED MANAGERS WITH DOWNSTREAM WATER USERS FOR SUSTAINABLE DEVELOPMENT

VENUE: WANJOHI MIXED SEC. SCHOOL

DATE: THURSDAY 20TH MAY 2010 10:00 AM.



Pay <u>Wanjohi WRUA</u>	Date <u>20/05/2010</u>	
USD <u>Five thousand eight hundred and forty only</u>	or Order US\$ 5,840.00	
Authorized Agency Stamp		





Date 30/June/2011

Pay Upper Turasha WRUA or Order **Ksh. 360,909.57**

Ksh. Three hundred sixty thousand nine hundred and nine, fifty seven cents only | Authorized signatory below

11/11/10
LAKE NAIVASHA GROWERS GROUP
Cheque Number Bank Code Account Number
0565650 171717 55-0101010101



Date 30/June/2011

Pay Wanjohi WRUA or Order **Ksh. 438,815.16**

Ksh. Four hundred thirty eight, eight hundred
fifteen, sixteen cents only

Authorized signatory below

151919D
LAKE NAIVASHA GROWERS GROUP

Check Number Bank Code Account Number
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Thank you

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