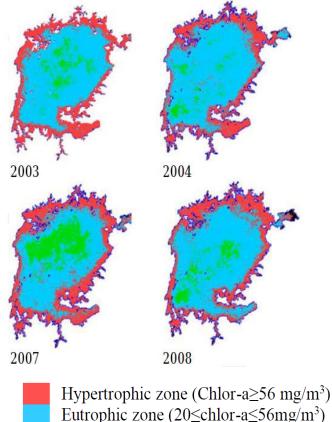
Promoting Sustainable Utilization of L.Victoria Through Community Driven Investments

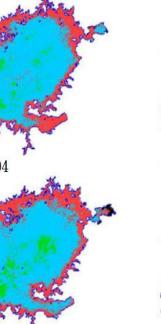


Water and Environment Joint Sector Review, 18 – 20 September 2018, Speke Resort, Munyonyo

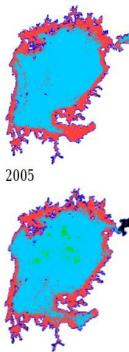
Sowed Sewagudde & Mawerere Paul Directorate of Water Resources Management Ministry of Water and Environment L. Victoria's ecosystems have undergone substantial and alarming environmental degradation over the last 40 years

Satellite imagery shows eutrophication in Lake Victoria as an indication of water quality





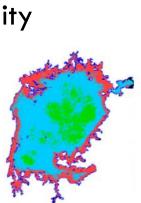
Mesotrophic zone (2.5 \leq chlor-a \leq 8 mg/m³) - Fair Water Quality Oligotrophic zone not detected (<2.5 chlor-a) - Good Water Quality



- Poor Water Ouality

- Poor Water Quality

2009

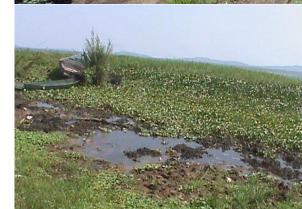


2006

2010







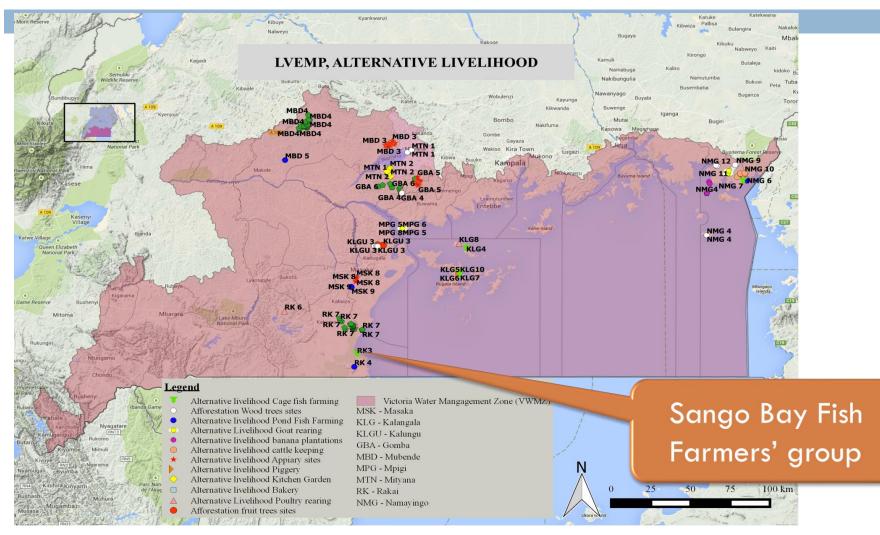
Introduction cont'd

- L. Victoria experiences a variety of complex and interwoven water-quality challenges that are driven largely by the deep poverty and lack of alternative livelihoods
- Slowing degradation requires a multi-faceted, long-term approach coordinated regional with national action
- □ The LVB countries recognize the need for coordinated action,
- with the support of the World Bank and other DPs, the Basin-countries through the EAC, have proactively taken joint efforts to address environmental degradation in the Lake

Steps towards reducing the environmental degradation trend in LVB

- LVEMP1 (1996–2005) greatly improved the understanding of the environmental challenges faced by the Lake, and piloted investments in watershed rehabilitation and reducing water hyacinth infestation.
- LVEMP II (2009-2017) prioritized the environmental threats in the Lake, implemented a variety of interventions in pollution and watershed management and strengthened regional cooperation for an improved mgt of the Basin.
- LVEMP3 (2020 2025) will prioritize information and monitoring systems, sanitation and wastewater management and sustainable land and water management.

Community driven investments for rehabilitation of priority degraded hotspot



ENR hotspots in Katonga sub-catchment; Mubende, Mityana, Gomba, Rakai, Masaka, Kalungu, Mpigi. Littoral zones of Lake Victoria; Namayingo and Kalangala

SANGO BAY FISH FARMERS GROUP



A case for LVEMP intervention

- Fishing is the traditional source of livelihood for Sango bay community.
- due to excessive fishing pressure, fish catches declined drastically, threatening the community's livelihood 15 baskets (@150kg) to 2 baskets per day
- encroachment on lake shores through farming activities, burning charcoal in desperate efforts to find alternatives
- periodic eruption and invasion by mats of water hyacinth complicating the movement of fishing vessels

Impact and possible solution

Impact:

- The overall net effect was degradation of the fisheries resource, resource conflicts and loss of community livelihoods
- □ Solution:
 - The community prioritized cage fish culture, tree planting and manual removal of the water hyacinth as options to mitigate the environmental stress on the lake, while supporting socio-economic development of the community.

Subproject formulation

- awareness/sensitization on environmental stress and possible support
- Held participatory planning meetings to firm up community needs, identify priority actions,
- Submitted proposal(s) to MWE through the District
- Trained in project management, financial management, procurement and book keeping
- □ Signed an MoU before receiving the funding (72M)

Sango Bay Community Sub-project

- Sub –project Title: Cage Fish Culture Development, Afforestation And Water Hyacinth Control Project At Sango Bay Fish Landing Site.
- Sub Project Objective: to enable sustainable utilization of the lake Victoria by diversifying the livelihoods of communities through cage fish production in order to reduce pressure on the natural fish stocks.

specific objectives of the sub-project

- Increase fisher household incomes through intensive culture and sale of cage fish to the existing huge fish market locally and beyond.
- Promote afforestation by planting trees along Sango Bay beach
- Reduce the menace of water hyacinth infestation around Sango Bay

Group Composition: started with 37 members and grown to 108

Sub-project Achievements

- Cage Fish Culture Development:
 - Initially constructed 4 cages and stalked with 6000 fingerlings
 - More 4 cages added with stalking density of 10,000 fish@
 - overall harvesting potential is 20,700kg of fish with the average end weight of 450g/fish.



Group members harvesting fish from the cage



Harvested fish brought to the landing site for sale

Sub-project Achievements Cont'd

Group's upscaling initiatives

- expanded the fish project by constructing five fish ponds.
- Fish harvests

Date	Qty (kg)	Unit cost	Total
19/4/15	950	8500	8,075,000
9/9/16	2,700	10,200	27,631,800
21/7/17	4,526	10,000	45,2600,000





Fish harvested from ponds

Sub-project Achievements Cont'd

Promoted afforestation

- Initially planted 4,000 trees
- Established a community tree nursery
- Encourage members to plant trees on their farms
- provided free coffee seedlings as incentives
- Planted 10,500 trees (mysopsis and greivelia) and 15,400 coffee seedlings





Water hyacinth control

 cleared 15 acres of the water around 12,500kgs of water hyacinth.



Water hyacinth control cont'd





Upscaling cont'd

Sustainability strategy: started a piggery project (60 number) and feed the harvested weed to the pigs.



Upscaling

 demonstrating compost making using water hyacinth and pig wastes while
promoting sustainable land
and water management and
pollution control



Monday Justus a group member in his coffee plantation

 Water tank acquired to support fish breeding, mirco irrigation and livestock watering



Some of the success factors

- Community empowerment to generate own solutions
- Strong technical support from district and the central gov't agencies
- strong internal coordination
 - internal monitoring team (for checks and balances)
 - Community procurement committee
 - Transparent accountability to group
- Savings scheme
- Diversification ensures wide stakeholder involvements

Challenges

- Access to quality fish fingerlings
 - Constructed our own hatchery
- access to affordable quality fish feeds
 - visit other successful farmers and their advice was that we should do away with local feeds. We need to raise capital to import enough feeds.
- Interruption by the Fisheries Protection Forces

Future plans

- Capitalization of the group's saving scheme to support importation enough fish feeds to last one production cycle (Ush 60m)
- Possibly buying a machine to produce our own feeds (Ush 200m)
- Establish a demonstration farm for knowledge sharing/transfer
- Establish cages away from the lake to support women groups

Conclusion

- Community participation is key in the sustainable utilization of lake Victoria natural resources
- However, continued community interest can only be achieved if there are economic benefits from the conservation efforts.
- Savings scheme is a key factor in maintaining group cohesion
- Sustainable solution to local problems can only be locally generated

Thank you