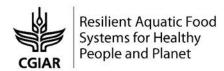


Indigenous **Knowledge System** for managing the flooding water commons in Zambia

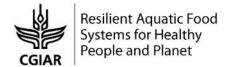
Everisto Mapedza, IWMI IASC Nairobi, Kenya 24 June 2023



Overview of Presentation

- Introduction
- Study area
- Methods
- Findings
- Policy implications
- Conclusion

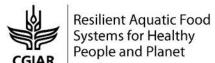
Introduction



"Weather information is not about data or models, it is about people. And it is about data or models only as far as data and models can serve the needs of people (poor and vulnerable children, women and men)" paraphrased from Westoby 1967.

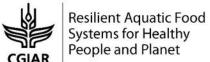


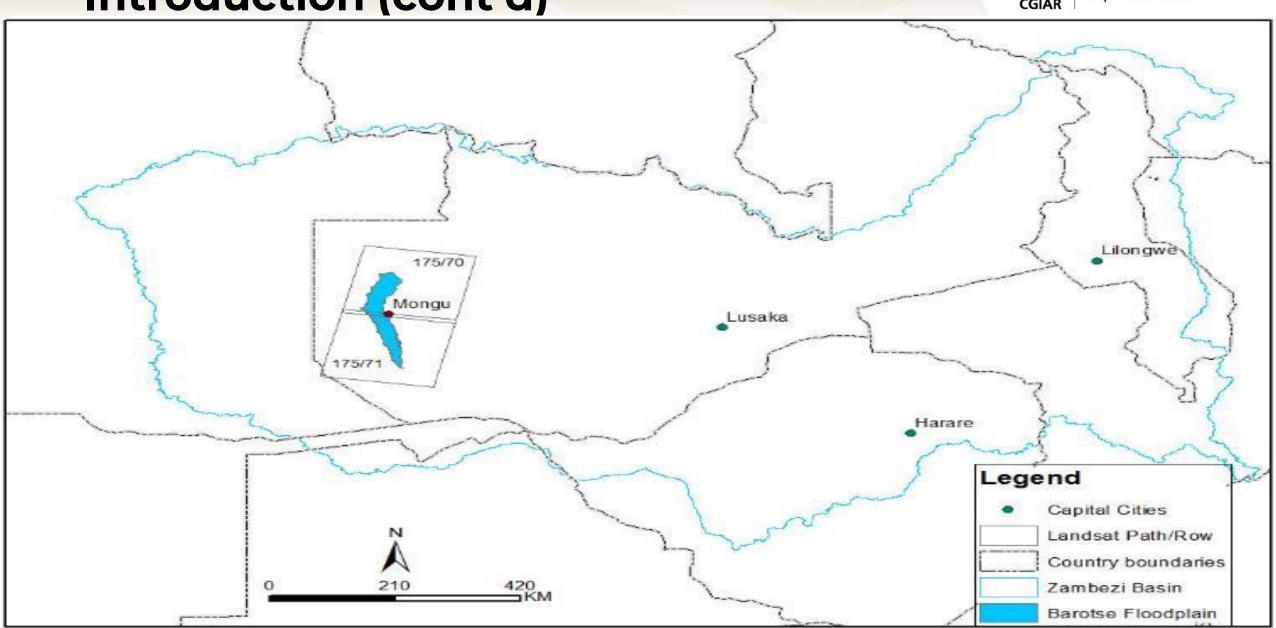
Introduction (cont'd)



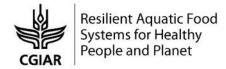


Introduction (cont'd)



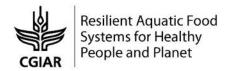


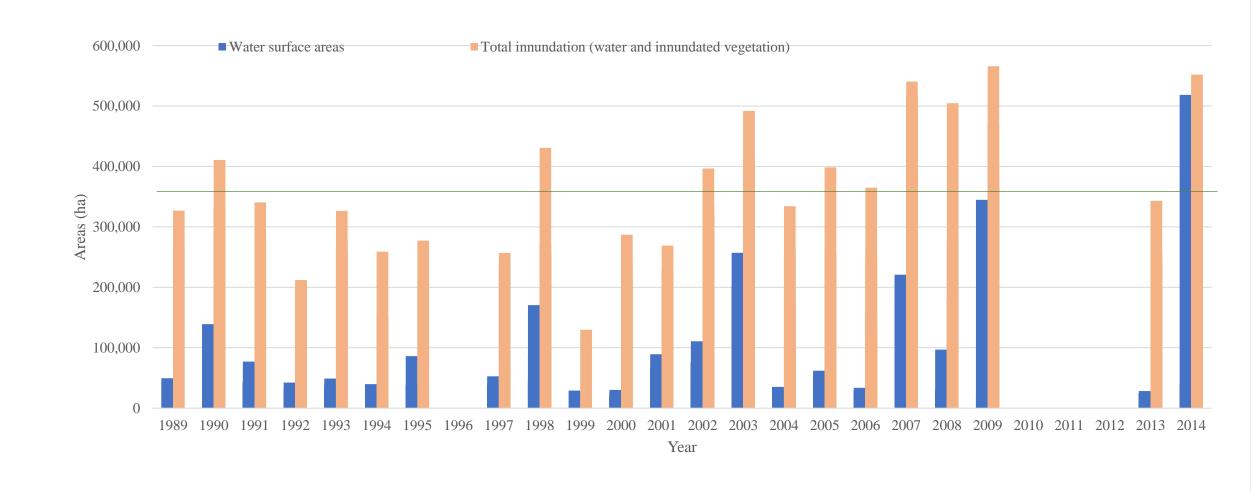
Methods



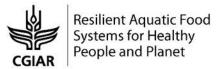
- Literature review
- Participatory-GIS
- Questionnaire survey
- Qualitative: FGDs, Key informant interviews and field observations and narratives

Knowledge on flooding history



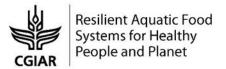


Flooding IKS-EWS



- Spider Ballooning Mendayi
- Silk threads appearance 1 month before flood begins
- This is signal to start harvesting crops such as rice
- Fish also start migrating upstream

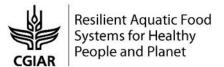




- Tumbombo insects tell direction of flooding
- When the beetle, found in plain grass, is looking upwards flooding levels still rising.
- When the beetle turns to look downwards flooding inundation is receding.

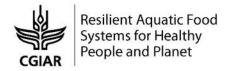


Drought IKS observations



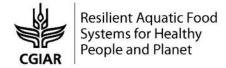
- Abundance of wild fruits *Mubula, Mahuluhulu* as well as domesticated fruits such as mangoes
- Practice deep planting (*Liyabelela*)
- Increase size of homestead mounds (mazulu)
- Might not be need to move to upland





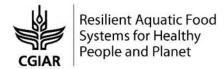
- Lozi proverb sinamusali kimutu?
- Cleaver: Whose indigenous knowledge is it?
- FGDs and survey show that IKS is gendered
- Gendered representation flood and canal institutions
- Concern Worldwide and PPS gender quotas
- Exclusion from political space disempowering (Kabeer, 2012)

So What?

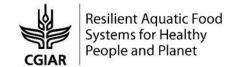


- Beyond binary IKS + Western Science livelihoods
- Climate change solutions within a context (adaptation and mitigation)
- Co-production of 'science' and 'knowledge'
- Global Initiatives WMO, UNDRR Sendai
 Framework, UNFCC, SDGs offer an opportunity to insert IKS

Conclusion



- Practical examples where IKS is operational
- Gender and Social Inclusion
- Local ownership Co-production of science
- Human Right and Democratic requirement
- Ethical requirement
- Stronger together Leave No (IKS) Science Behind!



Thank you; Merci Beaucoup, Asante Sana

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