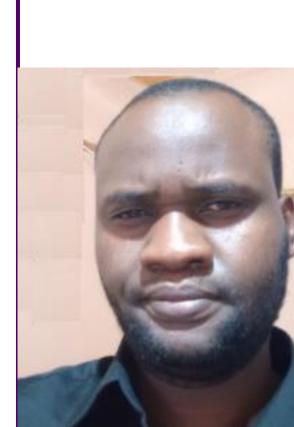


 Spatio-temporal Variation in Pesticide Residue Occurrences
in Surface Waters found in the Mau-Mara Ecosystem, Kenya Bakari Chaka¹, Aloys Osano¹, Wesley Omwoyo¹, Patricia Forbes²
Department of Mathematics & Physical Sciences, Maasai Mara University, Narok, Kenya
Department of Chemistry, University of Pretoria, S. Africa

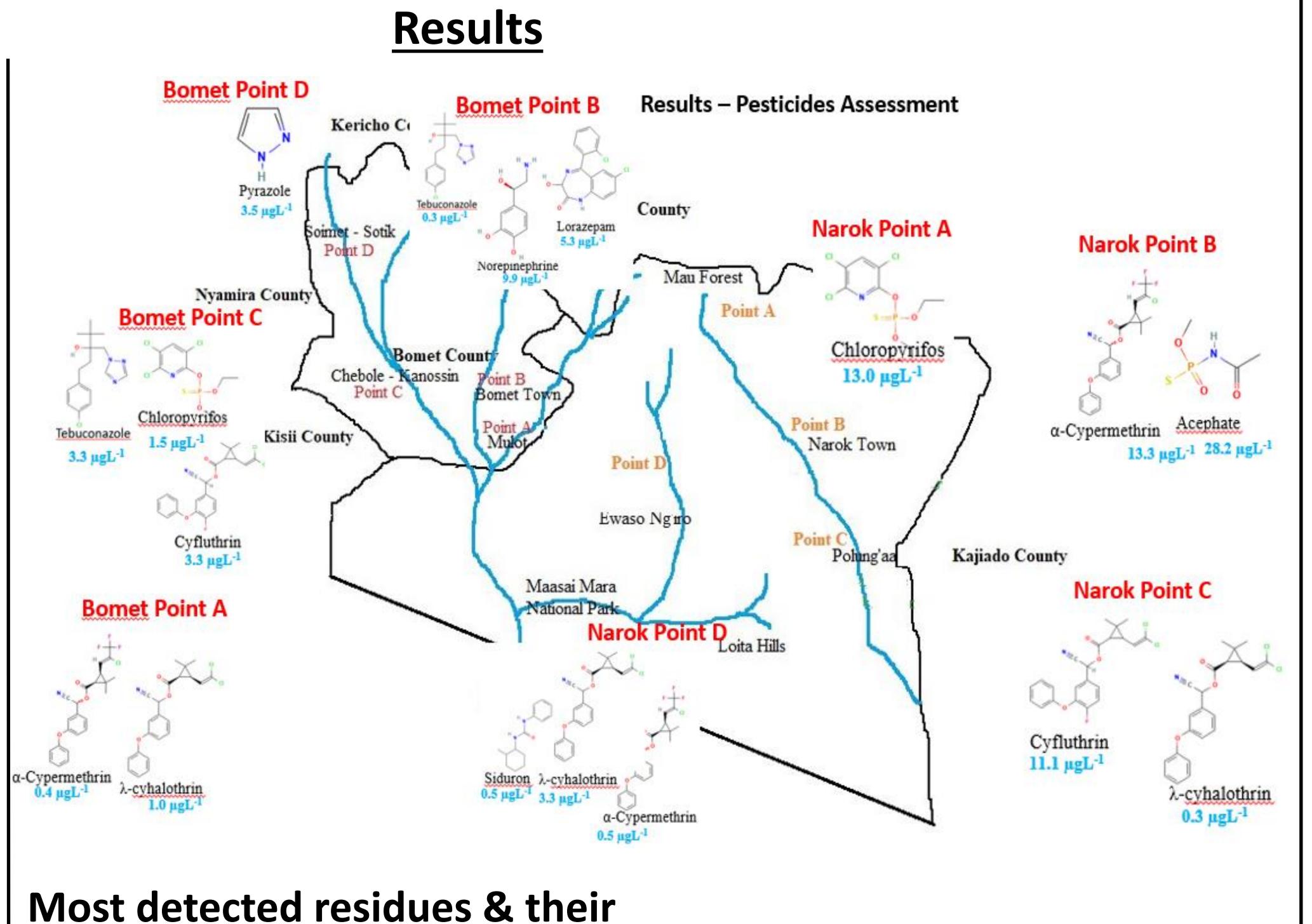


The East-African School for Young Researchers on Advanced Machine Learning Techniques (EASY-ML)

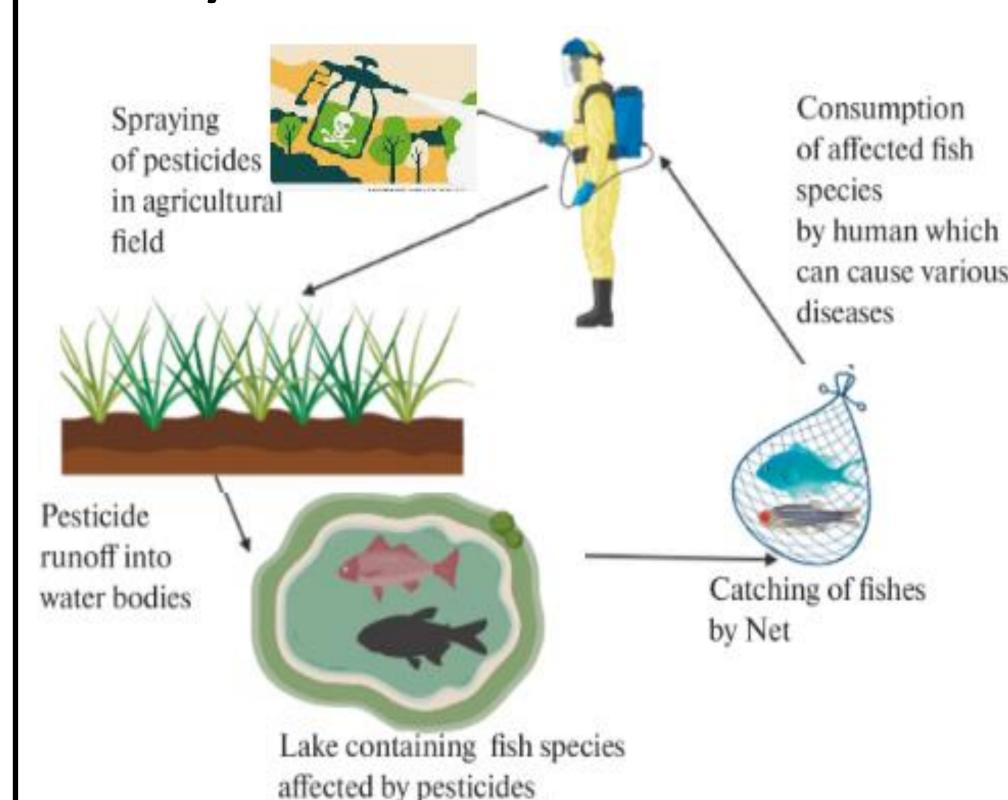


Background

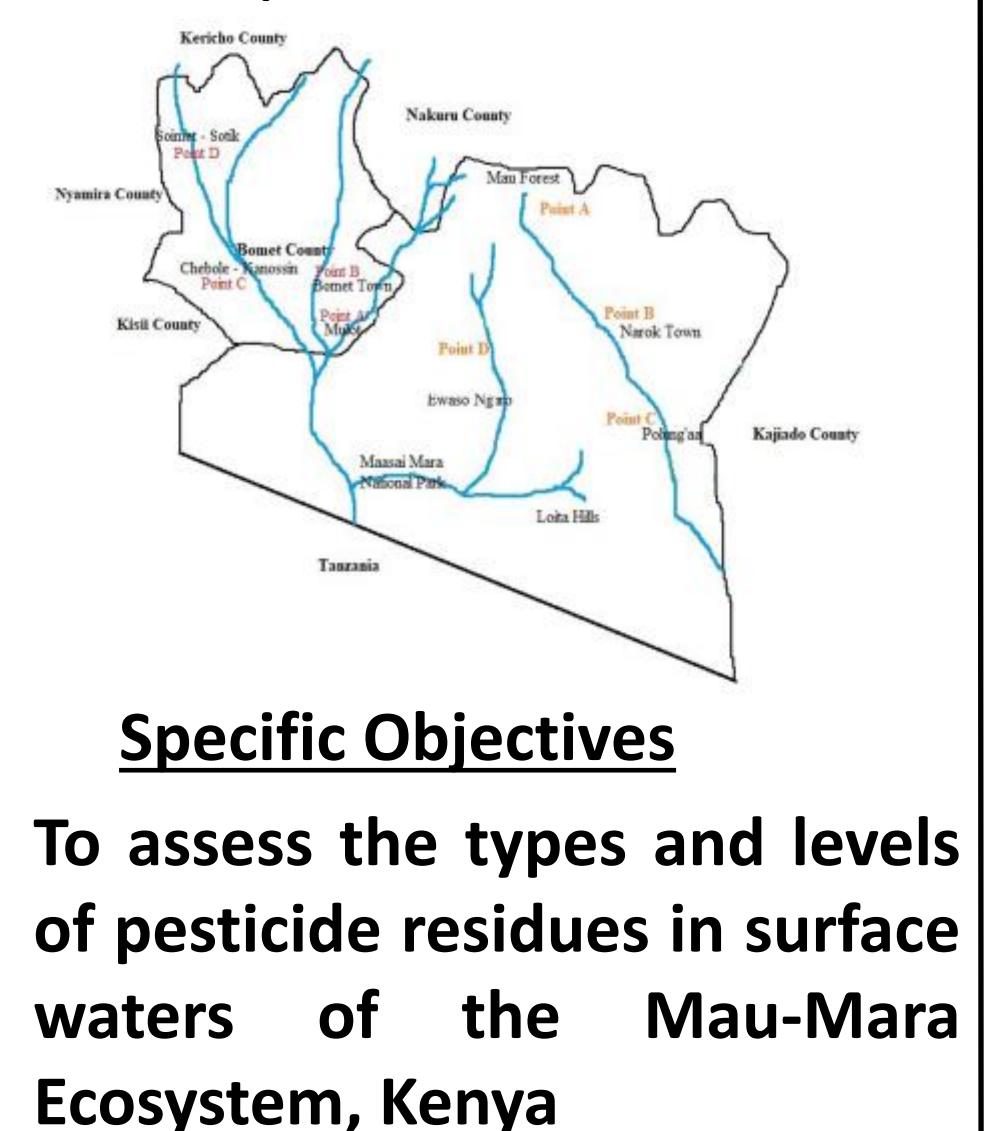
At least 1.1 billion people lack access to safe drinking water

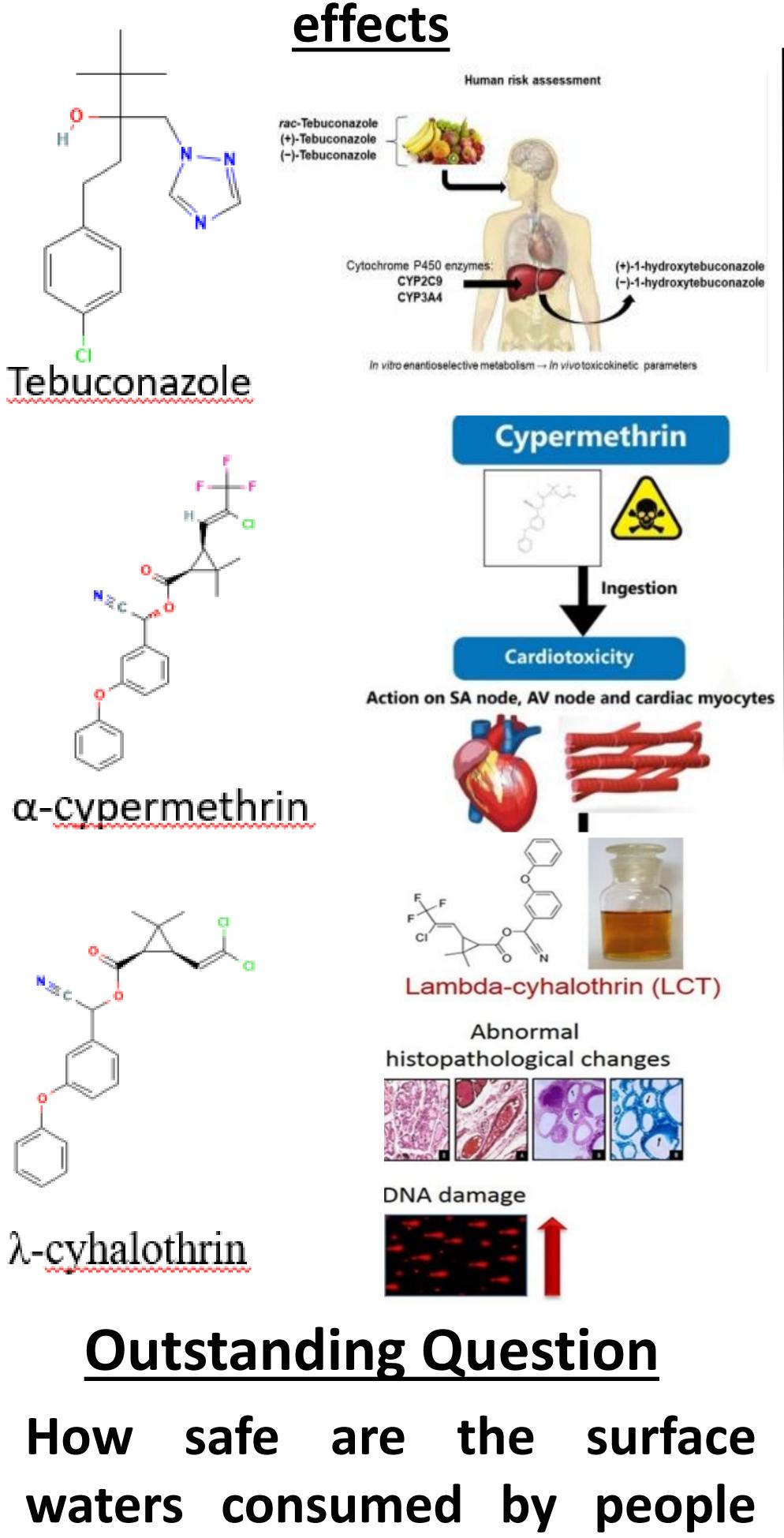


(Osiemo et al., 2019). Marginalized communities are worse affected and consume waters direct from rivers leading to infectious diseases chemical Increased riparian applications near lands have all led to introduction of pollutants in water bodies (Ahmad et al., 2104)



 Pesticide pollution is attributed to causing cancer, cardiovascular diseases, kidney, lung and CNS diseases (Ba *et al.*, 2015)





and animals in the Mau-Mara

Ecosystem, Kenya?

Expertise I can offer collaborators

Spatial and temporal analysis of pesticides and polycyclic aromatic hydrocarbon (PAHs) pollutants in water

Expertise I seek from collaborators

1. Simulation studies on a longitudinal and open ecosystem using ML techniques
2. Modelling studies and design of tracetore

reactors



