



AFRICAN FORUM
ON URBAN FORESTS

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Green Horizons: Shaping the Future Resilience of African Cities through Urban Forests

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in partnership with:



Urban Agriculture as a strategy for enhancing Climate Change Resilience and Food Security in Dar es Salaam, Tanzania

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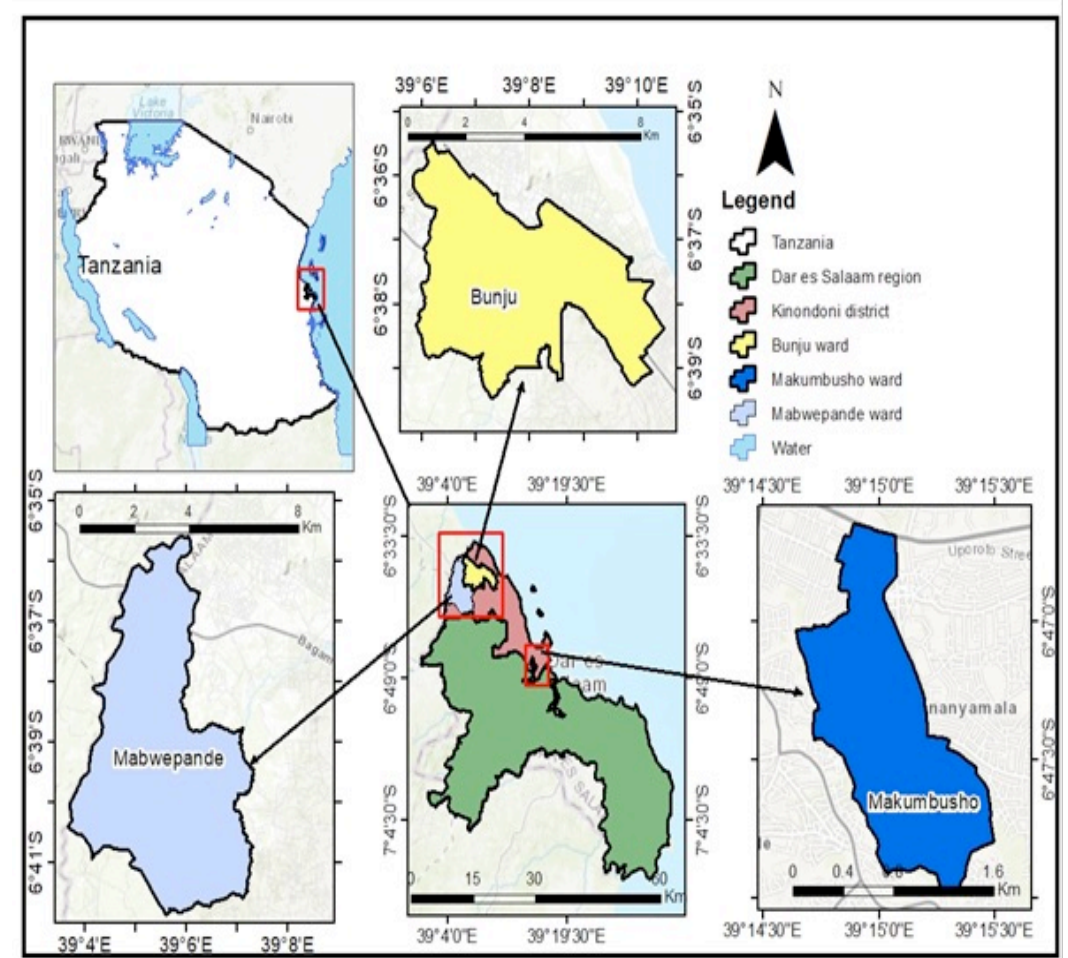
Introduction

- The challenges in cities encompass population growth, unemployment, high food costs, biodiversity loss, and climate-related issues.
- Food security has always been a key resilience aspect for people living in cities (Barthel & Isendahl, 2013).
- This study examines how UA can build community resilience in Dar es Salaam, one of the fastest-growing cities in sub-Saharan Africa.



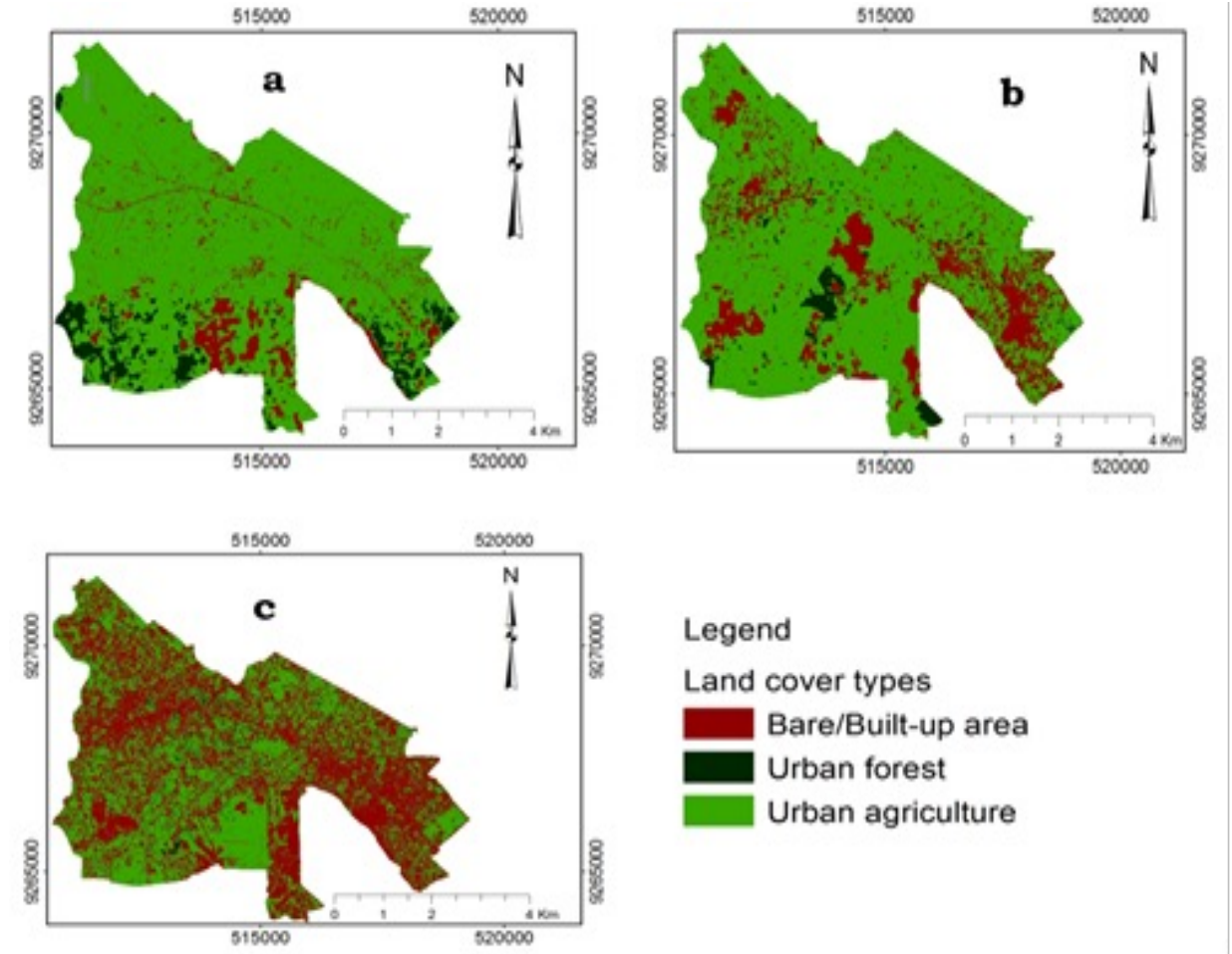
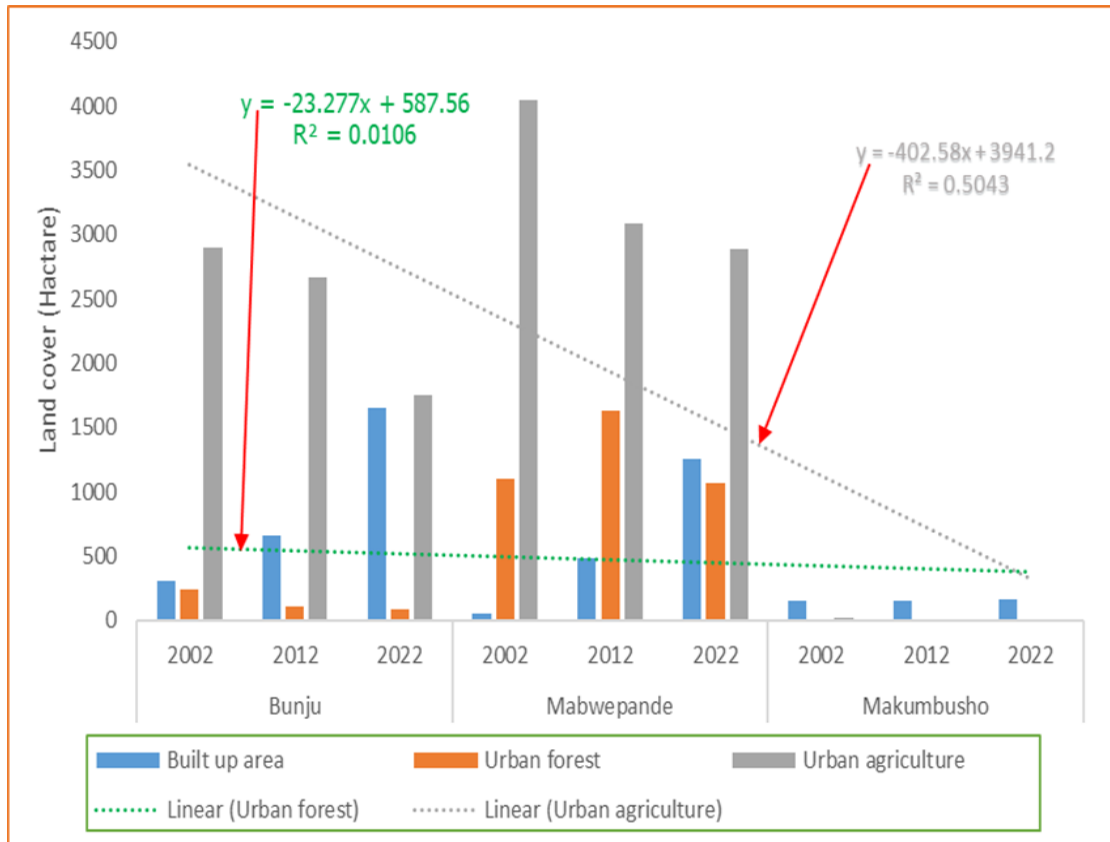
Research Methodology

- ❑ A mixed-methods approach was used.
 - A household survey (n = 233),
 - Four (4) focus groups, and key informants (n = 25) revealed local perceptions of challenges and opportunities.
 - Data analysis – One way ANOVA, SWOC, Pearson's Chi-Square, Mann-Kendall trend analysis and spatial analysis



Results

- UA experienced a reduction in area by **33.3% loss** [Fig (a) 2002, (b) 2012 and (c) 2022]
- Urban forest decreased by 15.1%



Results

- Income, job creation and reduced food miles ($p = 0.21$)
- UA use organic wastes for crop production ($p = 0.15$)
- Over 30% of respondents obtain 300,000 TZS from agricultural-related activities per month.
- Financial institutions are willing to offer loans
- There is an agricultural institutions/centres which offers opportunity for development of UA
- UA is hampered by land shortage, climate change extremes, and a weak regulations.
- Little support from decision makers



Conclusion and Recommendations

- There is a decline in the coverage of UA in the study area over the years, while the built-up areas have expanded.
- The urban forest areas are decreasing as well as the NDVI values suggest poor vegetation health - indicating changes in land use patterns.
- UA has contributed to livelihoods of communities – food (reduced food miles), income etc.
- Access to land for UA is limited, fear of eviction call attention on the need for secure land tenure.
- Opportunities (financial services, agricultural centres) can promote the growth of UA.
- There is a need to raise awareness, and collaboration among stakeholders.



Thank You.

Special thanks to:-
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