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Prospect to Achieving Equitable Urban Tree Canopy Distribution in Ibadan Metropolis, Oyo State, Nigeria

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INTRODUCTION

- ❖ Urban trees' benefits have garnered much attention
- ❖ However, limited research has been conducted into the distribution of tree canopy cover, particularly from an environmental justice perspective.
- ❖ This study investigated the socioeconomic disparities linked to tree canopy distribution.



METHODOLOGY

- ❖ Oluyole and Old Bodija communities were purposively selected.
- ❖ In each community, 1059 and 3261 houses were identified, and houses were randomly selected at 5% sampling intensity.
- ❖ Landsat 9 image from 2023 was downloaded, and spatial data was extracted. Data were analyzed using descriptive and chi-square statistics.



RESULTS

- ❖ Oluyole's vegetation cover increased from 0.08 in 2003 to 0.36 in 2013, but it reduced to 0.32 in 2023
- ❖ Old Bodija's vegetation cover increased from 0.11 in 2003 to 0.39 in 2013, however it decreased in 2023 to 0.35.
- ❖ In Oluyole and Old Bodija, 55.2% and 54.7% of respondents were males, 55.2% and 62.3% were between 20 and 35 years old, and 58.3% and 49.1% earned more than ₦40,000(\$27) monthly.
- ❖ Yoruba(78.5%.and 75.5%) were the predominant ethnic group, and 70.6% and 75.5% rented their homes.
- ❖ Oluyole residents(74.8%) believed that tree canopy cover was unevenly distributed, although having equal access to vegetation cover(59.5%).
- ❖ Old Bodija residents (69.8%) stated that tree canopy cover was evenly distributed and access was equitable(69.8%).
- ❖ Chi-square test(χ^2) indicated significant association between distribution of urban tree canopy cover and gender (0.041), age (0.002), and education (0.024).



CONCLUSION AND RECOMMENDATION

- ❖ The study revealed that socioeconomic characteristics are associated with distribution of tree canopy cover.
- ❖ Policymakers should prioritize public awareness, education, and environmental justice in urban climate policies.



Thank You.

