



User Feedback on Interface Complexity and Operational Efficiency of a Participatory GIS Platform for Water Resource Management in Northern Ghana 2002

Abena Afriyani¹

¹ Department of Interdisciplinary Studies, Food Research Institute (FRI)

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Correspondence: aafriyani@yahoo.com

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Author notes

Abena Afriyani is affiliated with Department of Interdisciplinary Studies, Food Research Institute (FRI) and focuses on Environmental Science research in Africa.

Abstract

This study investigates user feedback on a participatory Geographic Information System (GIS) platform designed for water resource management in northern Ghana. User surveys were conducted among stakeholders involved in water resource management. Data was analysed using descriptive statistics to determine proportions of feedback categories. Users reported that a significant proportion (60%) found the initial setup process complex, necessitating further simplification for better adoption and operational efficiency. The findings highlight critical areas where the platform can be optimised to enhance user experience and effectiveness in water resource management. Recommendations include streamlining the interface design and training sessions to improve user familiarity with the system. The empirical specification follows $Y = \beta_{0+\beta} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *Geographic Information Systems (GIS), Participatory GIS, User Interface Design, User Experience Evaluation, Stakeholder Engagement, Community-Based Resource Management, Spatial Decision Support Systems*

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