Review of: "Policy-Based Water Management Challenges at the Local Level Under Non-traditional Security Perspective: The Case of Hanoi City, Vietnam"

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Potential competing interests: No potential competing interests to declare.

Article Summary

The study focuses on local-level water security (WS) management challenges, using Hanoi City, Vietnam, during 2020-2022 as a case study. An interdisciplinary approach combining "Management of Non-traditional Security" and "systems thinking" is applied. Inspired by the Cost-Benefit Analysis concept, the study integrates WS concepts from UN-Water, integrated water resources management from the Global Water Partnership, and the UN Sustainable Development Goal 6 on water. A methodological framework is used, based on an equation reflecting a cause-and-effect relationship between WS state variables and WS management costs. The results show that WS management in Hanoi is ineffective, characterized by aquatic ecosystem degradation, insecure domestic water supply, and an overloaded drainage system. The study proposes a new way of thinking and a novel philosophy for the WS management system, aimed at data-driven decision-making and interdisciplinary water management research.

Improvement Suggestions

Clarity in Methodology: While the article describes an interesting methodological framework, it would benefit from providing more detailed information on how this framework was applied in the Hanoi context. This would include a more detailed explanation of data collection and analysis, and how the various interdisciplinary approaches were integrated.

Comparison with Previous Studies: Including a more detailed comparison with similar studies, especially those conducted in urban settings in developing countries, would help contextualize the Hanoi findings within a broader framework.

Discussion on Security and IoT Technology: Given the study's focus on water management from a non-traditional security perspective, it would be valuable to discuss how emerging technologies, such as the Internet of Things (IoT), could be integrated into or influence water management in Hanoi.

Long-Term Impact Analysis: The article could benefit from a section discussing the long-term implications of the findings, both for Hanoi and other cities facing similar water management challenges.

Limitations and Future Research Directions: Although the article briefly mentions future research lines, delving deeper into the current study's limitations and how these might be addressed in future research would be useful.

Improvements in Figures and Graphics: Ensure that all figures and graphics are high-resolution and clear for easy understanding by the reader.

Updating References: Check and update references to include the most recent and relevant studies in the field of water management and non-traditional security.