

Review of: "Reducing non-revenue water in Egypt using GIS"

Yared Gari¹

¹ Bahir Dar University

Potential competing interests: No potential competing interests to declare.

Dear Author,

Below are my suggestions and comments that could improve your research paper.

Abstract Section

- The abstract mentions the multi-stage systematic process without detailing the specific methods employed in each stage. To enhance the scientific rigor, I suggest briefly explaining the techniques used for measuring water flow, leak detection, meter installation and fixing, and other activities. This will provide readers with a better understanding of the study's methodology.
- The abstract lacks details on the expected outcomes of the study. I recommend briefly mentioning the anticipated benefits or impact of the proposed reduction in UFW percentage. Additionally, consider including a sentence on the broader implications of the study for the field of water management.

Introduction Section

- The introduction lays the groundwork for understanding UFW but lacks references to existing literature. To strengthen the scientific foundation, incorporate relevant studies or frameworks that support the classification of UFW into physical and non-physical losses. This will demonstrate a comprehensive understanding of the research context.
- While the introduction provides a solid foundation, it would benefit from a stronger rationale for why reducing UFW is crucial. Elaborate on the consequences of high UFW rates, such as financial strain on utilities, and link these consequences to the broader challenges faced by the water management sector.

Problem Formulation Section

The section effectively outlines the challenges faced by Egyptian water utilities. However, some areas can be further refined:

Specifics on Financial Challenges: Provide more specific details on the financial challenges faced by utilities. Quantifying the financial losses or providing examples could enhance the reader's understanding.

Connection to Clean Drinking Water Obligation: While the obligation to provide clean drinking water is mentioned, consider elaborating on how UFW directly affects the utility's ability to fulfill this obligation. This will strengthen the

argument for addressing UFW.

Clarity and Conciseness: Some sentences are lengthy, and the information could be presented more concisely for better readability. Consider breaking down complex sentences into smaller, focused statements.

Research Objective Section

The research objectives are clearly stated and align with the identified problem. However, providing more context on why each stage of the multi-stage systematic process is crucial could enhance the reader's understanding. So I would suggest briefly explaining why each stage of the methodology is selected. For example, why is leak detection important? Why focus on reducing illegal connections? This will help readers grasp the significance of each step in addressing UFW.

Methodology Section

- Figure 1 and 3 are blurred.
- Consider revising the title based on the methodology.