

# Review of: "Analyzing the nexus between Spatial Data Infrastructure Development and e-Government"

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Potential competing interests: No potential competing interests to declare.

## Review of Manuscript <https://doi.org/10.32388/HKKKJ5>

Title: Analyzing the nexus between Spatial Data Infrastructure and e-Government

### General observations

The manuscript seems to be shallow in content especially the review of already existing SDI by other countries. This could be made possible by a review of some global, regional studies related to the research work.

Many countries have embraced the development of SDI and are in different stages, thus I find the current research work lacking originality/ novelty.

### Abstract

1. The abstract seems to be shallow in content, The author should have focused on first bring to the attention of the readers what is meant by the spatial data infrastructure, then consider a highlight of the synergy between the SDI and the e-government. This should be followed by highlighting the problem being addressed in a precise manner, then a review of the datasets and the methodology/ approach adopted to develop the SDI while linking it to e-Government portal. Then the author needs to bring to the attention of the readers the functionalities of the SDI in rendering services and finally the author needs to conclude this section by giving the major finding and recommendation.
2. My assessment is that abstract is shallow and need to be revised as guided in (1) above.

### Introduction

1. The present study is too localized to Zimbabwe which should not be the case for the paper to attract international readers
2. I recommend the author to review or provide an insight of how SDI and e-Government portals have been used globally and regionally before cascading to a review of how it may be used in Zimbabwe
3. I recommend also a review of continuum of approaches adopted for the development of the SDI and e-Government portal.
4. The review of the introduction section is also falling short of description of e-Government portal and the synergy it has to the SDI.

### **Major components of a typical Spatial Data Infrastructure (SDI)**

1. The section is insufficiently cited
2. The functionalities provided for the geoportal are inadequate, consider the incorporation of the reporting modules, GNSS positioning tools for geolocation, routing functionalities, geo-visualization rendering tools (map services) among others.

### **Assessing the current status of SDI in Zimbabwe**

1. The heading of this sub-section is too localized
2. Additionally, I have noted that the author commenced by reviewing the current status of SDI in Zimbabwe before reviewing global and regional studies related to the research work. I recommend the author to reorganize this subsection by first reviewing global studies, then regional before reviewing the status of SDI development in Zimbabwe.
3. Some statements provided in this section are unjustified or supported by relevant citations. I recommend the author to address this issue accordingly.

### **Development of the e-Government Infrastructures (Web Portal)**

1. How is this system different from others developed SDI by other countries.
2. The focus should not only be to develop an SDI for Zimbabwe but should try to improve the already existing SDIs
3. I find a lot of similarities with the existing SDI in other Countries.
4. Figures 2 and 3 is rendering almost the same services or functionalities carried out by the google map services. How this web-portal different from the google map?

### **Conclusion**

1. The conclusion needs to be enhanced to bring an insight of how novel the current research work is compared to already existing SDIs.

### **References**

1. The referenced are consistent