

The Administrative Challenges of Implementing Climate Change Mitigation Actions at a Municipal Level

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Abstract

The increase in temperatures associated with industrial activity and in particular, greenhouse influence can be depicted as climate change. Thus, the “anthropogenic source” is often referred to as global warming, which is fuelled by human action rather than natural actions. Using the mixed-methods approach, this study interprets data collected to draw conclusions and address the administrative challenges faced by the City of Tshwane Metropolitan Municipality (CTMM) in managing the impacts of climate change on road infrastructure. The research detects the possibility of disputes arising from integrating various methodologies, which should be overseen by carefully advancing choice, emphasizing knowledgeable methods and limiting negatively. In this research, the data gathered revealed that there were few CTMM programs for climate change and climate change mitigation activities for road transport infrastructure in its municipal area. Climate considerations must be included in transport, planning, and development strategies to control the implications of climate change impacts on the road transport infrastructure of climate change. The Statistical Package of Social Sciences (SPSS) Statistics Version 20 software tool analysed the data collected through questionnaires. For a meaningful interpretation and analysis of the information acquired via questionnaires, official documents such as the municipality’s integrated transport plans and annual reports were studied.

Keywords: Climate change, adaptation, mitigation, road transport and sustainable development

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