

Projects for Good

Sustainable alternatives to Road building in Zimbabwe

The aim of this project is to investigate and explore ways of minimising carbon emissions and embodied energies to protect the environment through the use of alternative construction materials in the built environment, for particular roads. Zimbabwe, as a member country of the United Nations Organisation, is encouraged to take measures in line with the Sustainable Development Goals of which climate change is a key issue which is embedding into many of the goals as well as being a standalone aim.

This project will be of use to construction industry stakeholders who will benefit from the knowledge of alternative practices which will contribute to a more sustainable built environment. This will also have a positive effect on the wider communities in which they are implemented as it will aid in the creation of environmentally responsible environments.

Behaviour changes will be influenced by the creation of a document detailing advantages of alternative construction materials which will be distributed to construction industry stakeholders for use during their operations.

The information can also be incorporated into the Department of Roads construction manuals and specifications to influence behaviour change in all Government infrastructure projects. The results of this project will be presented to the Director of the Ministry for Transport within the Government of Zimbabwe to disseminate the findings at a high level of influence which will allow a cascading of knowledge leading to changes to the standard practices within Government departments.



Project by Lenon Nyagura
MSc Quantity Surveying Student

