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Author: Mr. Oniosun Temidayo Isaiah
Federal University of Technology Akure, Ondo state, Nigeria, Nigeria

URBAN WASTE MAPPING IN AKURE NIGERIA

Abstract

Urban waste is one of the major threats to global environment in the world today and also, it's one of the cause of flooding and airborne diseases. As global civilization keeps improving, there is increase in commercial, residential, and infrastructure development due to the population growth which has a negative impact on the environment if not properly planned, monitored and maintained. Getting an exact measurement of how much waste has ended up in nature is difficult. But think about this. Out of the 1.3 billion tonnes of household waste generated per year, only about 258-368 million tons of trash end up in one of the 50 largest dumpsites. Where is the rest of it? (0.54Kg of waste is generated per day per person in Akure in Ondo state). We are living in an era full of trash, and it's clear the problem is massive, growing constantly and varies considerably by region. To get a handle on it, we need to locate and identify illegal dump sites in Our City (Akure). This project will be able to give well defined data about the waste dumping area, the major dumping site, minor dumping site and even improper dumping area - that is area that are 500meters away from homes. With this project, better plans and more structure waste system can be made and enforced. Which is one of the major steps to take in promoting a better and improve environment and atmosphere. This will assist the government and NGOs in clearing of dumping sites. This project then proceed to identifying suitable locations for siting dumping sites in the city for recycling and other purposes. 40 members of the Space Club of the Federal University of Technology, Akure under the University Centre for Space Research and Applications in collaboration with the YouthMapper and United State Agency for International Development (USAID) are Capitalizing on web-based open geospatial technologies to do this project. Open Street Map, TeachOSM tasking manager and other Remote Sensing and GIS tools are being used for the mapping.