

Waste: A Computer Tool for Solid Waste Management in the Urban Areas

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SUMMARY

The achievement of Environmental Information System (EIS) has become an indispensable component consecrating to the solution of urban solid waste (USW) management. On account of tens thousand of factories, approximately 45 million tons of garbage are annually disposed to the environment, bringing about the cost of thousands billion VND to re-purify the pollution. These pieces of information are significantly notable for our comprehension, letting us make an apropos decision so as to reach a proper conclusion. Paralleling with the rapid development of Ho Chi Minh city, the urban solid waste disposal is considered as a prominent problem that requires the wider application of EIS. The current information and data related to USW is very big and diversified, needs to be analyzed, shared and integrated. This impetus has inspired scientists to building informatics tools, supporting the USW management for Ho Chi Minh city. The WASTE software (CompuTEr Tool for Solid Waste mAnagement) is published in Ho Chi Minh city. The version 1.0 has been applied at district 4 in 2005 and the version 2.0 is applied at Binh Thanh and Thu Duc districts in 2007, Ho Chi Minh city. Apparently, the WASTE software has put the foundation for the establishment of computer tools, assisting the array of the information flows that related to USW management of cities and towns along the country. In this article, we will introduce WASTE software application using GIS technology and the relevant methods of the EIS to computerize the input and the output processes, which are concerned to the USW in Ho Chi Minh city.

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