



Development of Urban Waste Management Models

MATHEMATICAL MODELS FOR THE STUDY OF TRENDS AND SCENARIOS

KEY WORDS

MATHEMATICAL
MODELS,
COMPLEX SYSTEMS,
FUTURE SCENARIOS

DESCRIPTION

Universidad Central (UC) has experience in modeling and simulation of systems for the integrated management of urban waste. Through mathematical and system dynamics models, scenarios and trends are analyzed to optimize the use of organic waste, plastics, and glass. The model integrates sanitary, financial, and circular economy components, allowing for the evaluation of capacities, investment requirements, and the impacts of policies or incentives, adaptable to different cities or contexts.

APPLICATIONS

- Waste managers
- Government entities
- Consultants and optimization entities

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