

Supplementary Material

Unveiling Transport Dynamics in Developing Countries, a Data-Driven Agent-Based Modeling Approach

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This document contains additional information to supplement the paper presented at the 17th International Conference on Social Computing, Behavioral-Cultural Modeling, & Prediction and Behavior Representation in Modeling and Simulation 2024.

1 Survey Dictionary

This URL contains a document with a compilation of questions and the corresponding keys for the responses to the survey designed to gather information from transport users: <http://surl.li/ugezu>

2 Summary of Survey Results

An interactive dashboard with a summary of the results of the survey conducted in Cali, Colombia, is available at this link: <https://acortar.link/RChuk4>

3 Stata Outputs Multinomial Logit Model

Results of multinomial models and statistical tests are available at this link: <https://lc.cx/8tpyli>

4 Simulation Model

An initial version of the simulation model and the csv file containing the initial parameter values can be found in this repository: <https://lc.cx/4ZjSCl>

Fig. 1 shows a broad outline of the model interface.

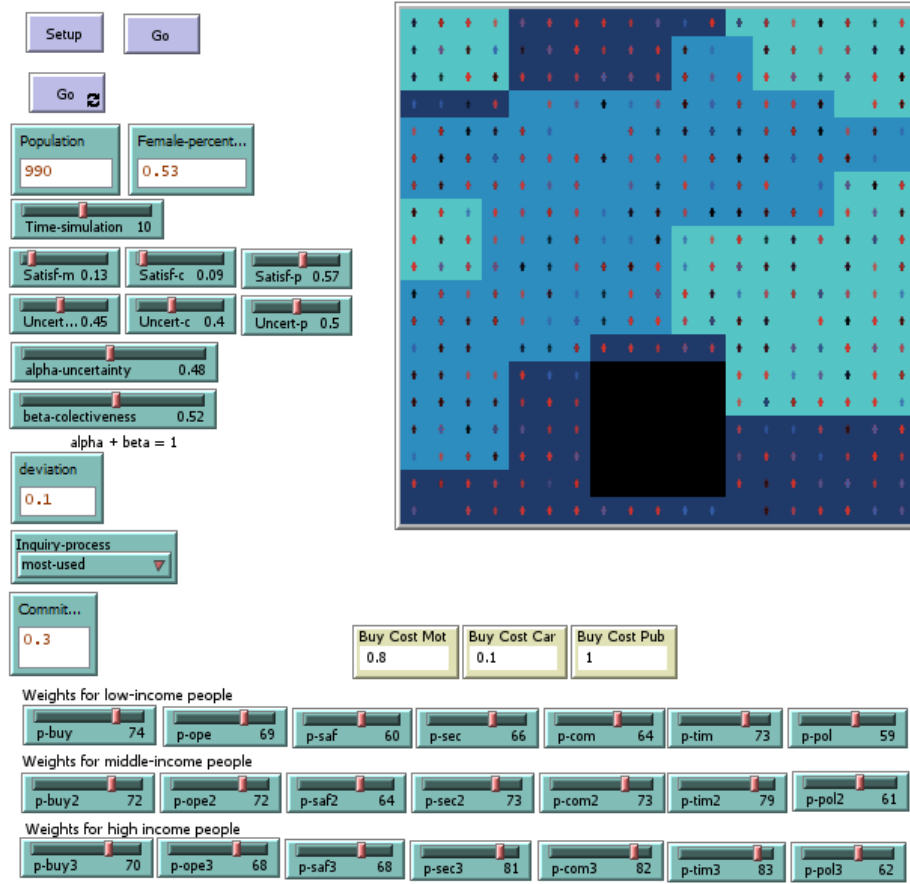


Fig. 1. Model interface.

5 Simulation Results

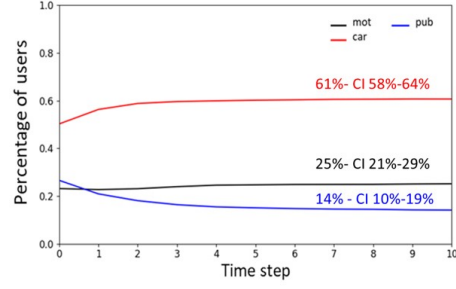


Fig. 2. Simulation results - Base case for Cali city.

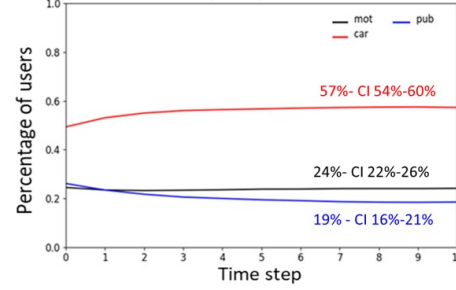


Fig. 3. Simulation results - Free transit policy for Cali city.

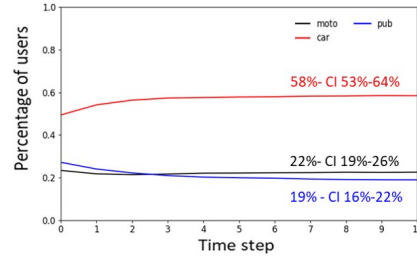


Fig. 4. Simulation results - Frequency policy for Cali city.