WHAT IS IT?

Gentrilab is a model for the study of gentrification in Latin America, focused on understanding two social implications: population displacement and the reconversion of land use from residential to commercial. Our model allows us to work with 4 variables in particular, initial properties, standard of living, distribution (land use), private interest. This last variable is one of the most important and on which the results that emerge from the simulations will depend.

HOW IT WORKS

The main interactions are based on the presence or absence of private interest. The inhabitants agents evaluate the conditions of habitability of their sector, the presence of private interest intervenes in the manipulation of these conditions (taxes, security and permits). Likewise, under these conditions, it is assessed whether the properties according to their type (residential / commercial patches) are maintained or change their land use.

HOW TO USE IT

The inmuebles_ini slider allows you to configure the geographical space with the initial properties (residences and / or commerces). Supports integer values between 1 and 100.

The nivel_vida slider allows you to assign the initial inhabitants life level. It allows controlling integer values between 1 and 100.

The slider distribucion refers to the distribution of the properties according to their type (residential / commercial).

The interes_privado slider allows you to simulate the presence or not of private investment. You can assign values in the interval [0,1]

Once the desired initial values are configured, we click on SET and then Go to visualize the emerging results.

THINGS TO NOTICE

The presence of private interest generally implies a process of gentrification. What variables would represent a counterpoint to this social process?

EXTENDING THE MODEL

What other variables could you consider for the analysis of this social phenomenon? Could you add a better geospatial representation that provides more data about a specific sector? How would this spatial representation contribute to the understanding of gentrification?

CREDITS AND REFERENCES

Model developed in the Complex Systems Modeling Group belong to Central University of Ecuador, under the tutorship of the Ph.D Pedro Almagro.

COPYRIGHT AND LICENSE