

Methodological Guide to Carrying out Planning Processes Successfully, Using Geoinformatics and Prospective Tools

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SUMMARY

This article presents the proposal elaborated as part of the thesis of doctorate of the author.

This thesis describes a methodology that fills the gap that exists with traditional urban planning methods used to solve land use problems effectively.

A methodological approach for territorial assessments was proposed based on the combination of prospective studies and geospatial analysis, that allowed for:

- . carrying out successful land-use planning processes;
- . creating future scenarios as a support for decision making;
- . anticipating the repercussions that the policies, instruments or territorial actions applied in the present, can have on the future territorial assessments;
- . a systematic approach to the territorial assessments, that will result in building territorial policies that are effective and consistent with the situation within the territories.

In order to validate this methodology, a comparison was made between the traditional prospective process and the territorial model obtained by the application of this proposal. Additionally, an application on an open-source geographic information system (GIS) such as gvSIG, was developed to validate the application of this method to a real case. This plugin was used to generate scenarios for a case of study in Montevideo,

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Finally, the results of the research provide elements for the use of

geospatial and prospective tools to support urban planning. It also considers the weak points existing in the traditional process and supports the use of a methodological approach in order to solve the problems inherent in territorial assessments.

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