Basic principles of online service development for functional zoning and definition of urban space development scenarios

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Relevance

Urbanists, project bureaus and municipalities need services that use the principles of participatory design and scenario planning.

Urban planning issues • unclear goals • incomplete and contradictory data • efficiency of management decisions • mixed management
Purpose of the work

analysis of existing GIS technologies, estimation research for visualization of city information, develop service with defining scenarios of the use urban spaces
Tasks

1. Collect project documentation on landscaped territories from Russian urbanists.
2. Analyze statistical methods for processing spatial information.
3. Develop a back-end architecture.
Multi-criteria estimation (MCE-GIS) is used to ensure multi-purpose decision making. Alternative scenarios are formed and the strategy is determined with greatest efficiency.

Geotagical photos from social networks and OpenStreetMap data are combined with data about the road network or existing significant objects.

An analysis of the possible development of the territory is constructed on the basis of the scenario. Scenarios of future use of territories are described and a variety of possible situations is studied.
Добавьте 1–2 показателя статистики с четкой корреляцией. Как сделать цифры запоминающимися:
➔ Связать данные с историей, которую озвучили выше.
➔ Сравнить чтобы цифры воспринимались легко, соотнесите их с другими численными значениями, понятными слушателям.
Findings

MCE, classification and robust statistical methods help to solve complex optimization problems; Scenario planning which is based on GIS-technologies is efficient. It takes into account the opinions of various social groups; Photofix tool uses for functional zoning. This is done by Neural Networks and geotagging.