**Geospatial community mapping system for emergency and routine preparedness**

SE-C-11

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This project presents a geospatial community mapping system designed to enhance urban planning by integrating local community perspectives. A targeted survey was distributed to residents to capture their perceptions of the community, with responses combined with demographic, geographic, and logistical data for comprehensive profiling. Using a GIS-based Plotly interface, the system enables users to visualize community structures, identify key characteristics, and match resources to local needs. A prototype of the system is currently being piloted in the city of Beer Sheva to demonstrate its functionality in a real urban environment. Combining data analysis and interactive design, the platform helps municipalities and emergency services make efficient decisions in routine and emergency situations.

Keywords: community, mapping, gis, interactive visualization, urban planning.