



“Thanks to the new app, communication and interaction with our residents is much easier. We have a better grasp on what goes on with our city’s roads and buildings, and are able to address infrastructure issues more efficiently.”

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MUNICIPALITY TRANSFORMS HOW IT RESOLVES INFRASTRUCTURE PROBLEMS WITH A CUSTOM GIS APP BY INTETICS

OBJECTIVE

To develop and integrate a web-mapping GIS application for a municipality of 30,000 people that helps manage the infrastructure of the city more effectively and allows citizens to directly report city problems.

CHALLENGE

The municipality manages over 400 square miles of infrastructure, which requires constant monitoring and reporting. The city wanted a modern web-mapping application with interactive user experience to promptly obtain information from users about problems and issues with the existing infrastructure. They were searching for a responsive partner with experience in providing complex GIS solutions to develop, test and implement this custom solution.

SOLUTION

The municipality chose Intetics, because of its unique blend

of GIS and software development capabilities. Intetics developed a web-mapping application built exclusively on open-source software. Specifically, the solution included server side and a web client. The server side stored and transferred spatial data to users. The web client (*image*) visualized spatial data for end-users. It made information easily accessible to people with no knowledge of GIS systems. It also allowed users to report infrastructure issues directly to the city via the web.

RESULTS

Thanks to the work done by Intetics, the city acquired a fully functional web-mapped GIS application that provided a better management system for the city’s infrastructure. It allowed users to request repairs and report issues as they became known. The access to more information in turn allowed the city to process infrastructure problems more effectively and take steps towards organizing repairs faster. The application satisfied residents as well as improved communication between city management and its citizens.

TOOLS AND TECHNOLOGIES

Programming languages and frameworks:

JavaScript
jQuery

Bootstrap
Leaflet.js map library + plugins

Database server:
PostgreSQL/PostGIS

Web-mapping server:
GeoServer

Web server:
Apache