



INTETICS IMPROVES LOCAL GOVERNMENT SERVICES WITH A UNIFIED GIS SYSTEM

OBJECTIVE

To enable a city municipality provide high quality municipal services and modernize the city's management process using powerful GIS systems, approaches and technologies.

SOLUTION

The municipality searched for a technological partner with the right mix of GIS development experience, and ultimately chose Intetics. Intetics has over 5 years experience working with GIS systems and uses the most powerful and effective GIS system architecture strategies on every project.

The project was completed in five phases. The first phase of the project involved the Intetics GIS system administrator, GIS analysts and GIS system architect, who had to identify and design the required strategies and infrastructure architecture patterns. The initial design was crucial in supporting successful enterprise operations in the future. To arrive at the final system architecture design, the following process was used:

- Identify and analyze existing information systems and software and hardware infrastructure in the municipality;
- Identify and define the user work flow requirements for an

CHALLENGE

The municipality needed a unified and effective system to better manage its multiple departments and services. The municipality wanted to create a system that would unify management of spatial data, synchronize department operations, and allow easy sharing among municipal personnel. Finally, they wanted the app to be publishable and viewable online so municipal residents could access the information. The end-user experience had to be intuitive and adaptable to the user's software and hardware requirements.

"For many years we've been trying to improve the quality of our services for our residents and to reach a new technological level. This year we succeeded. That's thanks to Intetics, who played a key role in helping us achieve our goal."

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THE GIS SYSTEM IMPROVED THE QUALITY OF MUNICIPALITY'S SERVICES AND TRANSFORMED THEIR COMMUNICATION PRACTICES

- enterprise GIS system;
- Describe the software deployment patterns for each identified user work flow;
- Recognize the system design factors that impact GIS software performance and scalability;
- Identify the network bandwidth requirements and remote client performance expectations;
- Describe the platform architecture deployment patterns for meeting non-functional system deployment requirements;
- Apply best practices for incorporating security throughout the system design and deployment;
- Identify a target IT platform and network solution that satisfies the peak system performance needs.

Thanks to this process, an optimal system architecture could be built.

The second step was for the Intetics geodatabase administrator and GIS analysts to actually build the architecture and the logical model of the geospatial database that satisfied the municipality's requirements. Then, based on the designed logical model, the physical model was implemented and easily integrated into the unified enterprise GIS system.

In the third phase, the Intetics GIS analysts and GIS technicians performed a series of data processing and data conversion tasks on existing municipal data. This ensured that the municipality's data had a unified structure and form. Once all the data had a unified structure it could then be successfully integrated and published through the GIS enterprise system.

Fourth, the Intetics GIS developers created a series of third-party desktop and web

applications. They paid particular attention to the usage needs of the municipal department's employees and managers, as well as residents of the city.

Finally, the Intetics team trained the relevant employees to use the system and software in accordance with their responsibilities in each department.

RESULTS

Due to working with Intetics, the municipality has become a technologically-savvy, unified municipal system that manages its daily tasks using a powerful and stable GIS enterprise system.

As a result of this implementation, the municipality improved the quality of its municipal services to the residents of the city. It also transformed the communications between the municipal departments by integrating their data into an accessible and transparent system.

