

## TOOLS AND TECHNOLOGIES

**Programming languages and frameworks:**  
Python 2.7, GDAL, SUDS  
Qt

**Development Tools:**  
PyQt4,  
JetBrains Python IDE

**GIS Software:**  
QGIS 2.6

*“We would like to express our thanks to all of our Intetics team members for the effort put towards the development and implementation of our GIS application. The product was introduced into production in all of our offices and greatly simplified data synchronization and analysis tasks.”*

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## ELECTRONIC MAP MAKER AUTOMATES PRODUCTION, UNEXPECTEDLY REDUCES COSTS WITH A SOLUTION BY INTETICS

### OBJECTIVE

*To develop and implement a work automation solution for a GIS department of one of the world's leading providers of electronic navigable maps and GIS data.*

### CHALLENGE

A leading provider of navigable maps needed to perform spatial analysis on a large amount of data in order to deliver high quality map services to its customers. The existing application used during the client's production did not support automatic data analysis and was not able to synchronize data with existing GIS systems. To solve these challenges, they needed a reliable partner with experience in building complex GIS solutions.

### SOLUTION

Looking at Intetics' track record and experience in both GIS and software application development, the map maker partnered with Intetics. Intetics team carried out an exploration of the client's workflow

and conducted an investigation of the client's parent application. At the end of the analysis, Intetics proposed two ways to solve the client's problem. The first solution was based on ArcGIS, and was the exact solution that the client initially wanted. The second proposal was a similar solution but was based on Open GIS software. After reviewing both options, the client decided to employ the second solution, which in addition to satisfying all the requirements also significantly reduced project costs. Intetics team went on to build and successfully integrate the solution into client's existing process.

### RESULTS

By working with Intetics, the electronic maps creator received an application that enabled users to automate their tasks, and simultaneously gained significant, unexpected cost reduction. The solution was based on desktop QGIS application. It facilitated data synchronization with the client's parent application. It also processed, analyzed and verified spatial data, reducing the amount of time and resources needed for map production.