



*“Due to Intetics’ professionalism we managed to extend the functionality of our application in the shortest time possible and won the tender. It will be a pleasure to work with you in the future!”*

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## LEADING CARTOGRAPHER WINS NEW BUSINESS WITH AN INTETICS PLUGIN THAT IMPROVES DATA PROCESSING SPEED BY 40%

### OBJECTIVE

*To develop and integrate a plugin that requests WMS imagery tiles for selected territories for one of the largest cartographical companies in Ukraine.*

### CHALLENGE

As part of participation in a tender, Ukraine’s largest map maker had to perform a pilot project that involved creation of electronic maps. The client needed to act quickly to show new potential customers the effectiveness of their work. While they were satisfied with the software they were using, there was some room for improvement.

Their workflow was based on the use of custom software, specifically designed for automatic map creation. It supported satellite image processing, automatic recognition and digitization of objects, and topology verification. The work with built-in web map services mechanism, however,

was extremely inconvenient. It maintained a narrow range of web services and allowed only loading imagery on the area displayed on screen. The client wanted to enhance how imagery was loaded from web services and needed an experienced partner that could help rapidly overcome the disadvantages of used software and win the bid.

### SOLUTION

The leading cartography company picked Intetics, trusting their years of experience in software development and GIS solutions. The project began when the Intetics GIS development team conducted an investigation of the client’s custom software.

The Intetics team was then given responsibility over all technical decisions and plugin integration, while the client’s staff provided support in regards to the existing parent application and its functionalities. They also took part in testing the plugin to ensure smooth integration. The interaction

## THE PLUGIN IMPROVED SPEED OF DATA ACQUISITION AND PROCESSING BY 40%.

between the client and Intetics' programmers ensured an effective workflow, since it improved communication and provided an opportunity to share technical knowledge on the fly.

### RESULTS

The first version of the plugin was developed and released into production only three weeks after initial project start. The plugin was fully compatible with the client's software. It loaded WMS imagery tiles on any given area and supported connectivity to various data sources.

Thanks to the close cooperation between Intetics and client's in-house staff, the time it took to implement the plugin was reduced significantly. The plugin improved speed of data acquisition and processing by 40%. The improvement in speed allowed the customer to complete their pilot project much earlier than competitors and win the tender.



### QUICK FACTS

- ✓ *40% improvement in data acquisition and processing speed*
- ✓ *Fully compatible plugin connects to various data sources*
- ✓ *WMS imagery tiles can be loaded on any given area*
- ✓ *Completed in 3 weeks thanks to close collaboration between Intetics and client*

### TOOLS AND TECHNOLOGIES

#### Programming languages and frameworks:

Python 2.7  
GDAL  
SUDS  
Qt

#### Development Tools:

PyQt4  
JetBrains Python IDE