

INTETICS DESIGNS AND AUTOMATES A QUALITY ASSURANCE PROCESS TO IMPROVE DATA OF A MAJOR GEOSPATIAL PROVIDER



Objective

To allow a major geospatial data provider deliver higher-quality data to their customers and better compete with other data providers by using quality assurance and automated GIS methods for spatial data processing.



Challenge

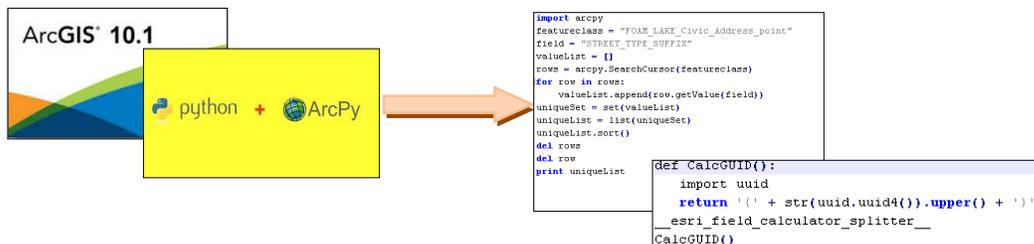
In order to effectively compete with existing geospatial data providers, our client needed a GIS QA team to control, verify and manage the data output of other organizations. The increase of GIS use in environmental modeling and the availability of a variety of digital datasets raised concerns about the quality of end-products. Our client needed a partner capable of verifying and delivering proven, quality data. Their existing project used municipal source civic address maps that were converted to vector GIS files of address points, and utilized satellite imagery that enhanced positioning. These vector files required QA resources to fix problems where necessary. Despite the fact that our client is experienced in spatial analysis and geospatial data processing, they needed an extra set of resources to ensure integrity of their data and ongoing quality of their services.



Solution

The geospatial data provider turned to Intetics, who has many years of experience working with GIS technologies and quality assurance. Intetics geo-experts used the newest and the most effective innovations in geo technologies and programming to perform QA activities and deliver quality geospatial data.

The Intetics team used geospatial data sources (Vector and Raster layers) to visually review the correctness of the geo-position and the address attribution of the address map elements in target areas to assure data accuracy. They ensured all data was standardized according to country specifications (such as street types, direction etc.). Where data did not fit standard attributes, Intetics developed, integrated and automated solutions to find and fix incorrect data (using custom automated ArcPy & SQL apps to modify ArcGIS interface).



Finally, the processed outputs were delivered back to our client with a Quality control report certifying data accuracy. This process was automated and customized using FME desktop software or ogr2ogr – GDAL library to adapt and integrate the ArcGIS output layers into software called ‘MapInfo’.

