



Where software concepts come alive™

Business Domain

GIS and Geospatial,
Automotive

Project Type

Offshore Dedicated Team®,
Fixed Price

ISA Compliance: How Intetics Helped a Global Navigation Solutions Company Update Its Speed Limit Data for 250,000 km

Client

A leading technology company that specializes in location-based services and provides mapping, navigation, and location data solutions for businesses worldwide. The Client's advanced location intelligence and mapping technologies enhance various industries, from automotive to logistics and urban planning.

Project

- The main project phases were:
1. data collection using in-car mounted cameras
 2. georeferencing and anonymization of images
 3. extracting speed limits from captured images and updating the client's database

Objective

Being a global leader in navigational services, the Client needed to refresh its maps to meet the EU Intelligence Speed Assistance (ISA) safety standard. Intetics was asked to collect and process 250,000 km of urban areas in Europe in 5 months.

Team Reinforcement

For the data collection phase, Intetics contracted 39 crews and gathered a team of 9 office employees, including project & finance managers, technical and GIS specialists, and software developers. For the data processing phase, the team was expanded with skilled GIS Specialists by 55%, bringing the total to 160 FTEs.

Challenge

Headquartered in the EU and present in over 50 countries, the Client is a global leader in digital maps, location data, and navigation, with a market capitalization of \$5+ billion and 2,000+ employees. The Client’s platform serves various industries, including automotive, mobile, online services, and logistics, with 1+ billion active users

The Client lacked resources to update the maps by the deadline with its own teams. Also, they weren’t able to ramp up their teams in such a short period of time.

The Client needed a complete solution for data collection and processing, so they looked for an expert partner. They approached Intetics because of our vast GIS expertise and a decade of successful collaboration.

Quick Facts

- ✓ 590,000 km driven and 250,000 km processed in 6 months
- ✓ Data is complied with GDPR
- ✓ A team of 248 employees
- ✓ 13 countries are covered
- ✓ 18% of the budget was saved thanks to bidirectional surveying (front and rear)

Technologies

Sony a6400+ / U-blox EVK-7P / Intel Core i9 processing servers / Python / JavaScript / dfmaker / ArcGIS / QGIS / proprietary software

Solution

★ 01

90% of major automakers use the Client’s ISA Map to support the (ISA) mandate, which requires new vehicles sold in the EU, starting from 2024, to be equipped with an ISA system.

★ 04

Speed limits, road signs, and other navigational attributes were digitized by a team of experienced cartographers and GIS specialists.

★ 02

Thanks to the synergy between collection and processing teams, all surveyed data was immediately implemented into the database, allowing the strict deadline to be met.

★ 05

The Offshore Dedicated Team® (ODT®) developed a cost-effective yet high-quality data collection process, saving 120% of the budget compared to existing solutions. 3D-printed shooters allowed surveying in two directions, cutting costs by another 18%.

★ 03

Data collection was done using in-car cameras paired with GNSS sensors. The data was post-processed and anonymized to comply with GDPR.



Client Reference



I want to thank Intetics for their outstanding services. With their support, we successfully updated our maps on time, which was crucial for our operations. The way they managed 39 crews and expanded the processing team by 55% demonstrated their capabilities. It's been a pleasure collaborating with such a reliable and efficient partner!

Product Manager

Benefits and Results

- ★ Data Collection and Processing services allowed the Client to refresh their maps in 13 countries with up-to-date speed limit data.
- ★ The Client obtained a comprehensive dataset consisting of images and GPS traces covering a distance of 250,000 kilometers during the survey.
- ★ The solution allowed the client to save 23% of the total project budget compared to another data collection provider and 35% compared to an in-house solution.
- ★ It took just 5 months for to collect and process 250,000 kilometers.

Techstack:

Sony a6400+, U-blox EVK-7P, Intel Core i9 processing servers, Python, JavaScript, dfmaker, ArcGIS, QGIS, proprietary software

Team: 248

8 Project Managers,
79 Crew Members,
10 Team Leaders,
148 GIS Specialists,
1 JavaScript Developer,
2 Python Developers