



Business Domain

GIS and Geospatial

Project Type

Data Collection Service

Field Data Collection Services and Build-in-Place Teams – 30k+ MI. Of North American Highways and 75k+ KM of Europe Surveyed in 3 Months

Client

The Client's company provides software solutions and expertise to automobile and navigation system hardware manufacturers. The company also continues to explore collaborative efforts with other electronics and auto manufacturers. The Client conducts surveys throughout North, Central, and South America to integrate the most current information into its navigation software.

Project

Digital mapping solution for automotive navigation. The development started from scratch, particularly from the selecting and purchasing of specific equipment: cameras, GPS sensors, and more. The project required hiring and educating a workforce capable of working properly with the equipment.

Objective

The aim of a digital mapping solution for automotive navigation is to provide end-users with highway data. The team had to collect a multitude of data consisting of realistic and complete information about signs and lanes of the highways. The pictures of highway signs, junctions, exits, and lanes were received during so-called photo surveys and were fed to the Client's database. To enrich the database with highway data, the field team was engaged in the major photo surveys.

Team Reinforcement

The project required to expand the number of Build-in-Place teams due to the inability to send the inhouse survey crews to some regions of interest. In some cases, it was impossible to send a trainer for newly hired employees, which made the training process slower and significantly more difficult. The question of remote quality control of the results arose, as new employees did not have sufficient qualifications to independently check the results. Special team members were allocated to resolve it.

Challenge

The Client's Group companies generate products across diverse industries, including mobile navigation, mobile advertising, printing, publishing, GIS, research & development, and software development.

The Client doesn't have representative offices in Europe. It was required to hire a vendor to provide data collection and processing services.

The project required to perform data collection requests in specific or hard-to-reach places and working with low amount or density of data. It was not cost-effective to send inhouse field crew to such regions as transport costs would be too high.

Quick Facts

- ✓ 15% of the total volume of work - 500 000 km was carried out by Build-In-Place Teams
- ✓ Covered 75,000 kilometers (45,000+ miles) of European highways with the photo surveys
- ✓ 5,500,000 high-quality pictures were received
- ✓ 20Tb of data were collected and processed
- ✓ On average, it takes 7 days for a new employee to adapt to the role; with the Intetics model, it took 2 days

Solution

★ 01

During 3 months, the team coped with all the challenges, namely building sophisticated routes, developing relevant navigation, and using route control techniques.

★ 02

The standard workflow has been deeply redesigned to successfully conduct the planned surveys, despite the travel bans, and reduce all kinds of risks.

★ 03

A stack of required equipment for data collection was re-developed to simplify transportation and mastering. It made the training of crews faster, the work less complicated, and the risks of losing data quality lower.

★ 04

Results monitoring software solutions have been newly developed or modified for in-field use. Every evening, team managers received detailed reports from each crew about the completeness and quality of the data.

★ 05

The ODT managed the process from the start till the end. Each collection team received a detailed trip itinerary for each working day. This minimized the number of decisions that field workers had to make on their own.



Client Reference



The view data received from Intetics' field teams met the quality requirements. We were able to save up to 20% of the allocated budget due to the increased efficiency of the development processes.

VP Data

Benefits and Results

- ★ The project is still ongoing. With the help of the ODT, the Client's database has already increased by 7%.
- ★ The Client's requirements were 100% fulfilled, and the surveys in hard-to-reach regions were carried out in time and without a loss of quality.
- ★ The Client was able to save up to 20% of the allocated budget.