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Business Domain

Geospatial Sector

Project Type

Data Collection

Surveying the 90,000 KM Core Road Network in 20 EU Countries to Keep the Client's Navigation Products Up-to-Date

Client

The Client operates in the map-making and navigation industry. The company develops digital maps, navigation solutions, and provides location-based services.

Project

Conducting a photo survey of highway exits and road signs at specified locations to update the Client's product in the region. Processing geotagged images to meet the predefined format.

Objective

The Client aimed for accuracy and freshness in their mapping solution. Our task was to provide photos for selected locations across 20 European countries, adhering to specific rules and restrictions. Deliverables required geopositioned routes and geotagged images of roads, signs, and exits in a predefined format.

Team Reinforcement

10 experienced field survey teams, supervised by a dedicated project manager, completed the entire implementation in less than four months.

Challenge

The Client's services encompass global coverage, supporting navigation systems and applications with detailed road, landmark, and point of interest information. To maintain the accuracy of global navigational products, the Client relies on cooperation with regional data providers. These providers are responsible for collecting necessary information promptly and transferring it to the Client for updates.

The project required executing data collection requests in specific or hard-to-reach locations with a low amount or density of data. Sending an in-house field crew to such regions posed challenges due to prohibitive transport costs.

Quick Facts

- ✓ 152,000 kilometers of European highways were photo-surveyed during 2022 and 2023
- ✓ Over 4 MI high-quality pictures were produced in 2023 alone
- ✓ 5+ years of successful collaboration with this Client
- ✓ The shooting technology was enhanced to gather GPS data within lengthy tunnels

Technologies

MMS / GPS/GNSS / IMS / Route Planner / QGIS / PostgreSQL / OSM / Python

Solution

★ 01

The collected data is crucial for the Client to serve customers in the EU and NA effectively.

★ 02

The Client maintains high regional data accuracy and relevance through their enduring collaboration with Intetics.

★ 03

The upgrade of the GNSS system has made deep and long tunnels available for surveying.

★ 04

Improved MMS optical system. Optimized geotagging and photo synchronization. Fast data processing thanks to updated scripts.

★ 05

A unique system for controlling the field survey process and notification in case of malfunction of at least one element of the MMS system was developed and integrated.



Client Reference



I appreciate the smooth execution of the project, which progressed seamlessly as if on wheels. Your effective coordination and attention to detail contributed to a successful outcome. The proposed solution for updating the MMS enabled high-quality surveying in tunnels, streamlining the subsequent processing in our system.

Benefits and Results

- ★ The collected data is crucial for the Client to serve customers in the EU and NA effectively.
- ★ Information on the main road junctions of the core network in 20 European countries has been updated.
- ★ The Client maintains its leading position in the market of location-based services. Revenue increased by 2.4% over the last year, compared to the planned 2% increase.

Techstack:

MMS, GPS/GNSS, IMS, Route Planner, QGIS,
PostgreSQL, OSM, Python

Team: 21

Project Managers,
15 Data Collection Engineers,
4 Data Processing Engineers
1 Equipment Engineer