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Stoovo

Business Domain
GIS and Geospatial

Project Type
Data Collection and Processing.
POI validation

Scaling Last-Meter Geospatial Data Collection: How Stoovo Optimized Accuracy, Efficiency, and Costs

Client

Stoovo is an AI-driven geospatial platform providing precise last-meter location data for navigation and operational efficiency.

Project

The project involved collecting last-meter geospatial data for addresses, including footpaths, ramps, accessible doors, emergency exits, and updated building images for precise navigation and accessibility insights.

Objective

Stoovo, a growing startup, initially collected geospatial data independently but faced challenges scaling operations efficiently. To meet increasing demand and ensure timely, high-quality data collection, they partnered with Intetics to streamline and accelerate the process.

Team Reinforcement

The project team consisted of 12 contract-based data collectors, 5 permanent employees (including data collectors and quality specialists), and 1 project manager overseeing operations.

The engagement followed a fixed-price contract, ensuring clear deliverables and cost predictability.

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Challenge

As Stoovo grew, their team struggled to scale last-meter data collection while maintaining accuracy and efficiency. Expanding operations required more resources than they could manage internally.

To address this, they sought a vendor with expertise in large-scale data collection, efficient workflows, and cost-effective solutions to ensure timely and accurate data delivery.

Quick Facts

- Data from 7563 addresses was collected overall across various US locations
- Client's platform received quality control review and upgrades during collection
- Flexible management model allowed weekly changes to the project as the platform was developing on a go
- Web scraping and in-person data collection were optimally combined

Technologies

QGIS / Python

Solution

★ 01

Collected data allowed logistics and delivery companies to optimize driver routes, reduce failed drop-offs, and minimize delays in last-meter navigation.

★ 02

The solution involved capturing precise last-meter geospatial data, including footpaths, building structures, ramps, accessible entrances, and updated images.

★ 03

Intetics provided a turnkey solution, handling everything from planning and hiring data collectors to collecting, validating, processing, and seamlessly integrating data into Stoovo’s database.

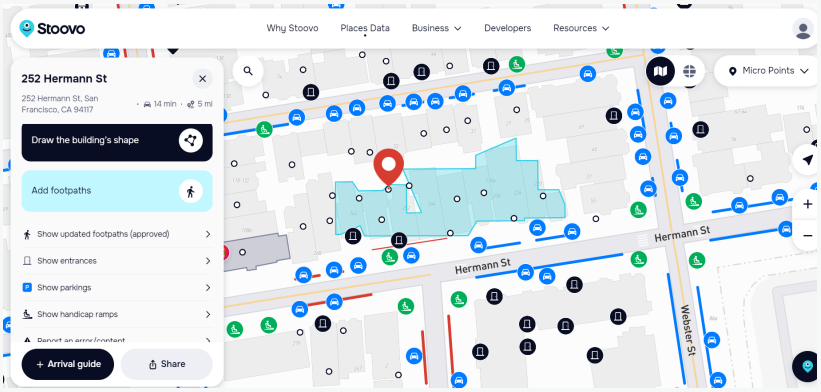
★ 04

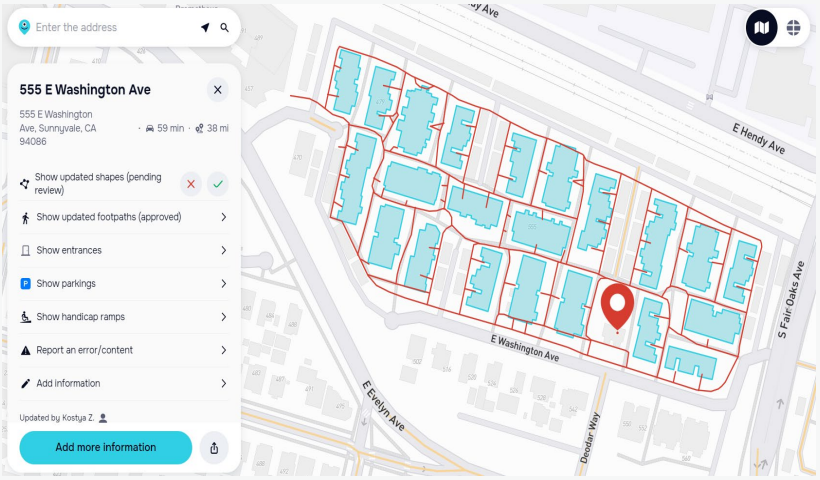
A Python script was developed for direct database integration, replacing manual data entry through a proprietary tool.

★ 05

A call center was established to gather and integrate preferred delivery spot instructions for each address

Stoovo





Benefits and Results

- Stoovo overcame resource limitations by outsourcing data collection, ensuring timely, high-quality last-meter geospatial data.
- A Python script automated database integration, reducing manual errors by over **80%** and accelerating processing time by **50%**.
- Custom developed workflows reduced operational costs by **40%** compared to other vendors while ensuring high-quality, scalable data collection.
- Precise geospatial data improved delivery success rates and reduced navigation time by **15%**.

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Techstack:

QGIS, Python

Team: 18

Project Manager,
GIS experts
Field data collectors
Call center operators