Locana
a TRC company

Reach a New Level of Location Accuracy with AI

Achieve high-quality, conflated data for large organizations with large service areas

Organizations need higher-quality data

Modern utilities suffer from inaccurate, incomplete, or antiquated data, leading to inefficiency, rework, and risk. According to one study, businesses lose an average of $15M annually because of insufficient data. Yet the volumes of datasets that need updating can seem too large and disjointed for any one organization to handle. Field-based surveys or manual updating require significant time, resources, and budget. And the disparate nature of data collected and maintained from multiple sources can add complexity.

Combining data into a single, high-accuracy dataset through data conflation can overcome the challenges of inaccurate data and enhance decision making throughout the organization. This has been difficult to achieve as traditional conflation tools offered by GIS software are manual, laborious, and do not scale.

Locana's AI-enabled automated conflation process delivers complete, accurate location updates to your existing asset data at a fraction of the time of manual work. You could take advantage of your imagery and quality reference data or procure new low-cost imagery to expedite the quality improvement project with a fraction of the cost.

Companies of every size, no matter how large the service area, gain a fast, scalable approach to improve data accuracy at every level, as well as the spatial location of assets in the field. They can maximize investments in imagery data by using it as a reference for combining and rectifying data.

Benefits of AI-Driven Conflation

- Leverage other existing data to improve GIS data and locations

- Make decisions based on accurate and relevant information

- Get results in days or weeks instead of months or years

AI delivers conflation at superior speed

Locana's automated conflation solution uses precision-trained machine learning (ML) libraries and post-processing toolsets to achieve a new level of speed and accuracy at scale. Using high-resolution imagery and pattern-recognition libraries, Locana can identify spatial data like pole locations and recommend updates to source datasets, all within a fraction of the time of traditional methods.

ML processes can automatically do the conflation work needed to find the highest achievable accuracy for assets like power line poles. Conflation entails merging datasets from multiple sources into one authoritative and enriched dataset using the most accurate location and attribute values. Using specialized image processing techniques, Locana's AI team generates a precision point of a given asset, such as a pole, within 1.5 meter accuracy. Once these analyses are done, each asset's location update is made, allowing for feature-level updates to location data.

Where manual cleanup used to take most companies 30 working days, that same work is reduced to 5 days or less with AI. And, with a precision of 1.5-meter accuracy, even the most rigorous standards are covered. Finally, you can reach the location accuracy your customers and workers need and get ROI on reference data and quality imagery investments.

Leverage AI, get results

Customers expect safe and efficient delivery. Analysts and decision makers need accurate, actionable information. Utilities can't afford slow job execution or rework due to data errors. Locana's automated conflation provides the tools for processing, managing, and optimizing data for large organizations and delivering real results, fast.

Things to Remember

1. Inaccurate data causes delays, rework, and unsafe situations
2. Traditional conflation is slow and cost-prohibitive
3. AI and modern conflation increase time to value

Businesses see an average $15M per year in losses because of bad data