Roadway Asset Inventory for The City of Thousand Oaks, California

Scope: Transconomy collaborated with NCE, a consulting engineering, planning, environmental, and construction services firm to provide a comprehensive sign asset inventory and condition rating for the City of Thousand Oaks, California.

High-definition imagery was collected by NCE on 403 centerline miles of the City's network as part of their pavement condition assessment. The images were collected for both travel directions and contained GPS coordinates. Collected images were processed on Transconomy Hub using the latest AI models. The extracted data underwent rigorous validation and verification by Transconomy's data extraction team.

Result: Transconomy successfully extracted and delivered a complete sign inventory which contained key information for each sign outlined below:

- GPS Location
- Unique Sign ID
- Pole ID
- Sign Orientation
- Sign Dimensions
- Mounting Type

- Street Name
- CA MUTCD Code
- Sign Text
- Signface Condition
- Sign Height from the Ground
- Number of Signs on Post

- Address
- CA MUTCD Description
- Cardinal Facing Directions
- Standardized Comments
- Post Material
- Post Condition

The assets were presented in ESRI-compatible formats and presented in Transconomy Viewer which allows for interactive browsing, filtering, and viewing data.

Benefits: For the City of Thousand Oaks, the ability to leverage the images collected by NCE for the pavement condition survey to gain a comprehensive sign inventory enhances the value of the data collected in the field (i.e. collect once, use many times).

Similar to pavements, right-of-way assets such as signs require planned maintenance activities. They are critical components of traffic management and safety and an accurate inventory and condition survey enables the City to proactively budget, plan, and maintain their sign assets. The interactive interface of Transconomy Viewer enhances the usability of the data, thereby empowering stakeholders for effective exploration by sign type, MUTCD code, or condition, along with viewing the associated imagery.

The project underscores Transconomy's ability to enhance infrastructure management projects through its AI-based asset inventory and condition rating system, providing a valuable tool for planning and proactive maintenance.

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