

Users

Wayne County, Indiana Departments:

- Auditor
- Assessor
- Recorder
- GIS
- Planning & Zoning
- Emergency Management & Dispatch
- Engineering & Highway

Technology Platforms

Trimble, Mapillary, ESRI, Existing County GIS and Infrastructure Management & Engineering (INFRAME)

Problem

Shaun Scholer, the GIS Program Director for the State of Indiana, engaged INFRAME to resolve a 2-year search for a cost- efficient, 360° high resolution imagery viewable within a smooth viewing experience to provide panoramic views from many viewpoints of all properties in the county.

Solution

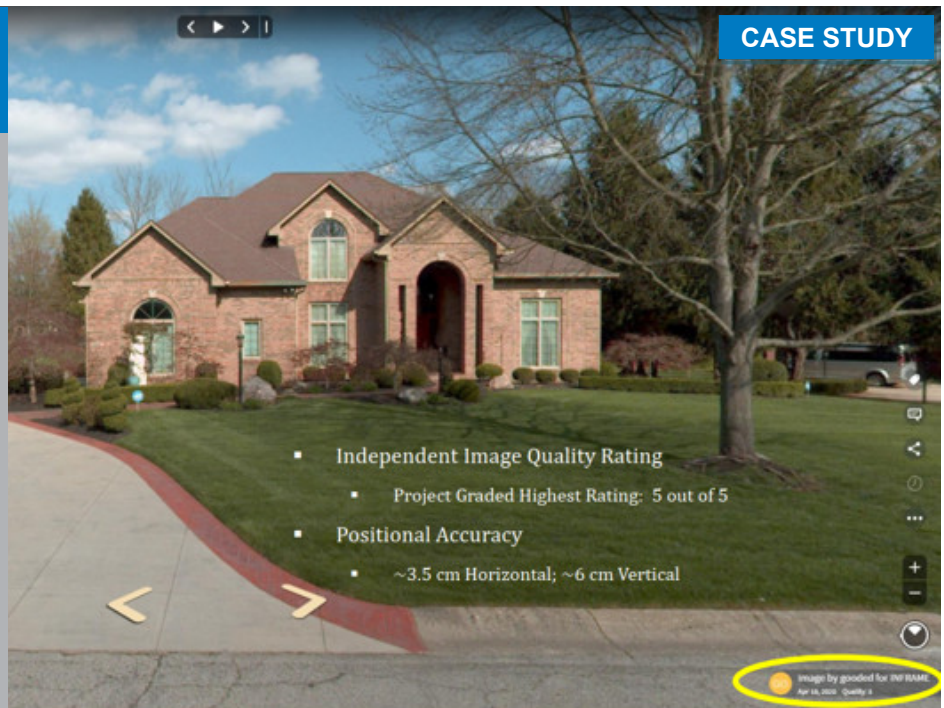
Fully customized, cloud-based street viewing application with both mobile/desktop access seamlessly integrated with County's existing GIS for multiple departmental and public uses.

Results

Current street imagery for all properties in the county provided assessors and county departments with the visual information previously obtained by making individual site visits, which would have taken longer and been too expensive.

Imagery serves as a control tool to ensure quality and consistency using offsite resources to ensure performance and reliability.

Data collected at one point in time of all properties over the entire road network – including all city and township roads, business frontage roads, alleys, long private drives, apartment complexes, and bike paths.



Workflow Efficiencies in County Operations Using *INFRAME StreetView* Wayne County, Indiana

Wayne County is located in east central Indiana on the border with Ohio. As of the 2020 United States Census, the population was 66,553. The county seat is Richmond. The highway network is 1,270 miles in centerline length.

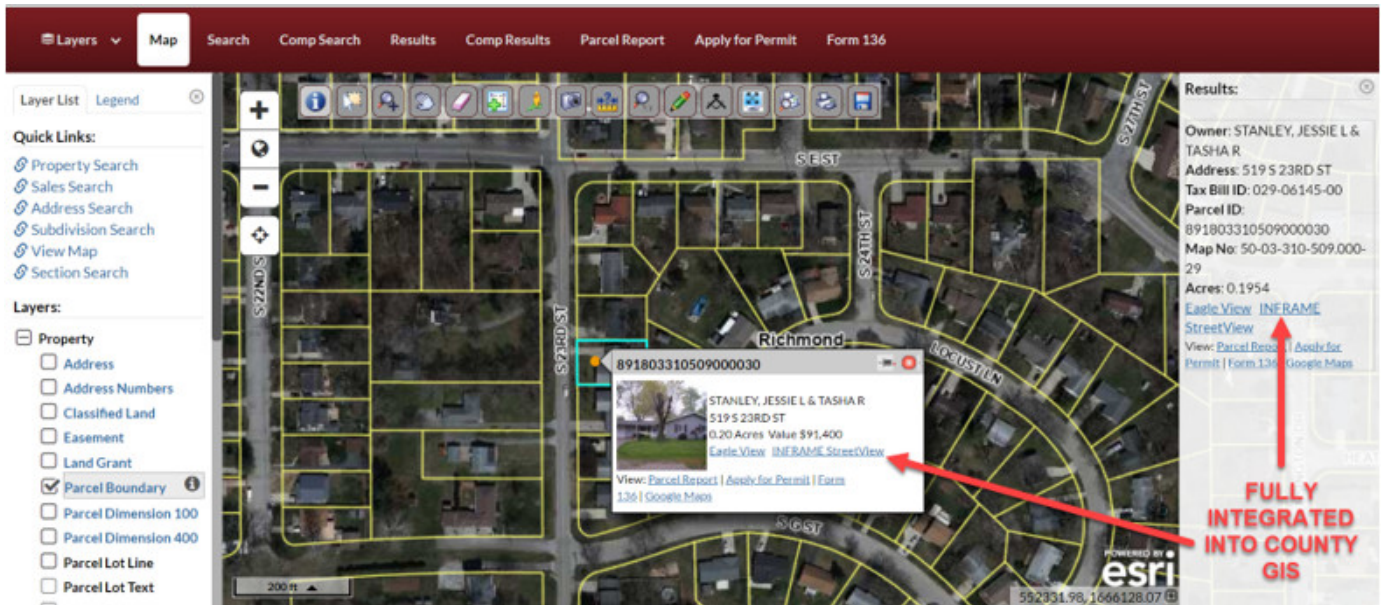
Problem

The Wayne County Government GIS Manager ended a 2-year research effort seeking a solution to obtain high resolution, 360° panoramic street-level imagery that can be accessed via a smooth viewing experience through a customized application incorporated within the county's existing GIS.

Wayne County's Geographic Information (GIS) team needed a system to reduce the field data collection efforts for property appraisal, valuation of improvements, upgrades, additions, newly platted parcels, among many other applications. Project requirements included seamless integration into the county's existing GIS, customized features, and accessibility in both mobile and desktop environments.

Consultant

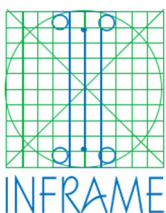
INFRAME is a multi-disciplinary consulting and research organization established in 1997. INFRAME is certified as a Minority Business Enterprise and Disadvantaged Business Enterprise in the State of Ohio. The company specializes in development and implementation of advanced technologies to improve quality and performance of pavement infrastructure, Esri® ArcGIS®, and sign inventory/asset management with customized software solutions. The company associates have successfully completed projects in the United States and Canada.



INFRAME StreetView fully integrates into any County GIS

“INFRAME StreetView significantly reduces field and office workflows for our county departments. Every one of us in the office uses it extensively on a daily basis. It is current and consistent with full coverage of our entire network at a single point in time.”

Gunty Atkins, GIS Director Wayne County, Indiana



inframeinc.com

Solution

Wayne County GIS team recently concluded an effort to collect and integrate high-resolution 360° panoramic street-level imagery. Image data was collected by INFRAME in early April 2019 before trees were expected to bloom. Approximately 675,000 photos were collected on a 1,270-mile network of arterial roads, alleys, frontage streets, and a premier bike path. The street level imagery data can be accessed using the customized software, INFRAME StreetView.

INFRAME staff collected the field data with state-of-the-art photogrammetry equipment and postprocessed the georeferenced data using Trimble Business Center. INFRAME also worked with Mapillary personnel to create an algorithm to blur faces and license plates as required for public use but retain house address numbers as needed for the project requirements. Assessment staff at the Wayne County office were able to verify parcel characteristic data, such as assessed building grade and condition, building materials, and additions. The *INFRAME StreetView* is integrated into the county’s existing GIS with high computing performance and reliability – avoiding strain on the existing county server technological resources. INFRAME StreetView calls on Mapillary’s photo viewer while working within a developed mobile/desktop application with over 34 client specified customizations. The software allows the county to navigate between a basemap, imagery, and their existing GIS for any parcel of interest.

Results

INFRAME StreetView usage is a frequent and constant part of county workflows with an average ~42 views per day. It is used by the Auditor, Assessor, Recorder, GIS, Planning & Zoning, Emergency Management & Dispatch, Engineering, Inspection, and Highway Departments to save money versus previous workflows. INFRAME StreetView is also available to the general public. .

*** [Click Here to View a 2-minute Video Clip of INFRAME StreetView](#) ***