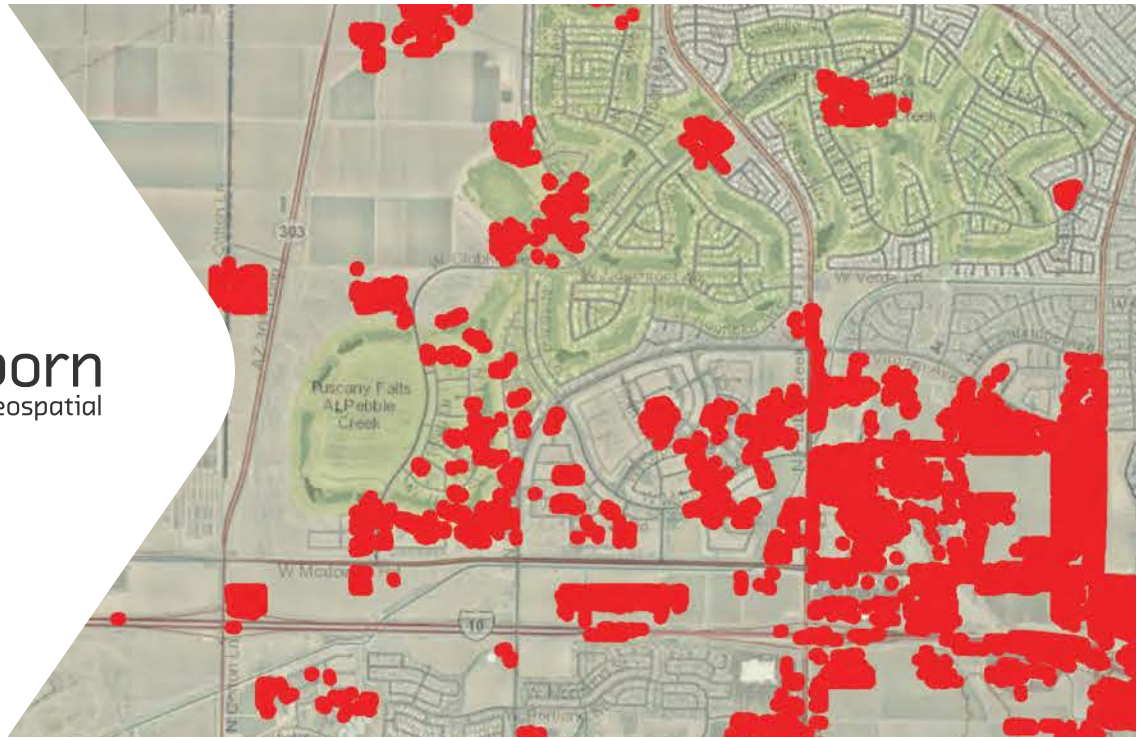




sanborn
geospatial

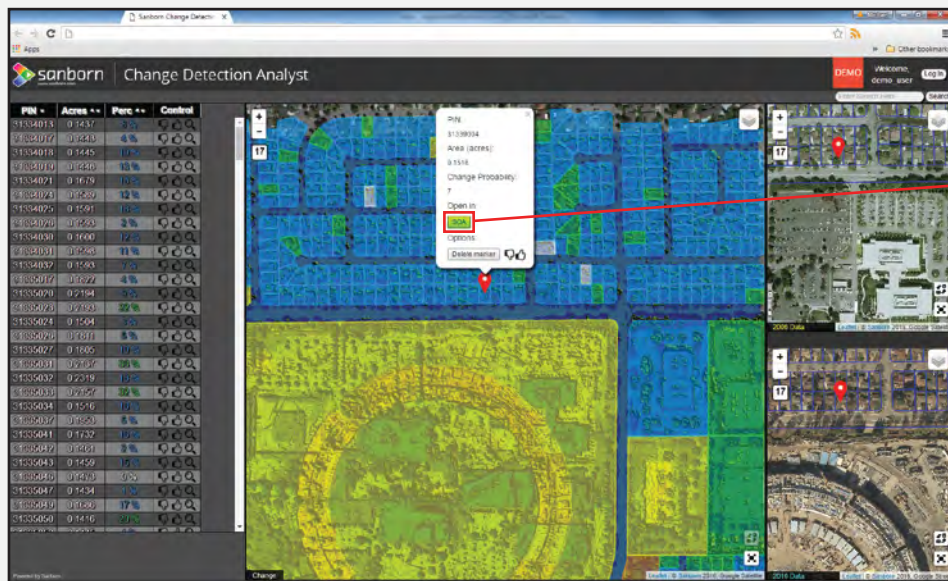


Sanborn Change Detection Analyst™ Software for Desktop Property Assessment

Web-Based Change Detection Viewer with Oblique Analyst™ Integration

Sanborn Change Detection Analyst Software includes easy-access integration with Sanborn Oblique Analyst. This enables immediate desktop verification of areas showing any percentage of change using multi-view, high-resolution oblique imagery, minimizing unnecessary field visits.

CHANGE DETECTION ANALYST™ DESKTOP CONTROL PANEL

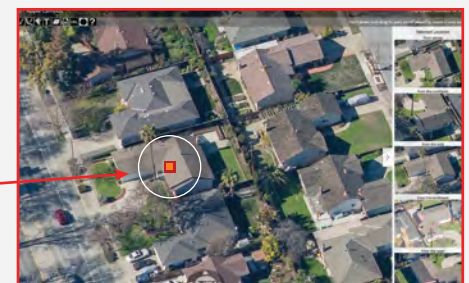


Panel showing
tabular parcel data
and controls.

Panel showing areas of change derived from older
versus newer imagery, draped over DTM backdrop
(viewer can substitute imagery for DTM backdrop).

Panels showing
older and newer
imagery.

SANBORN OBLIQUE ANALYST™ DESKTOP VIEWER

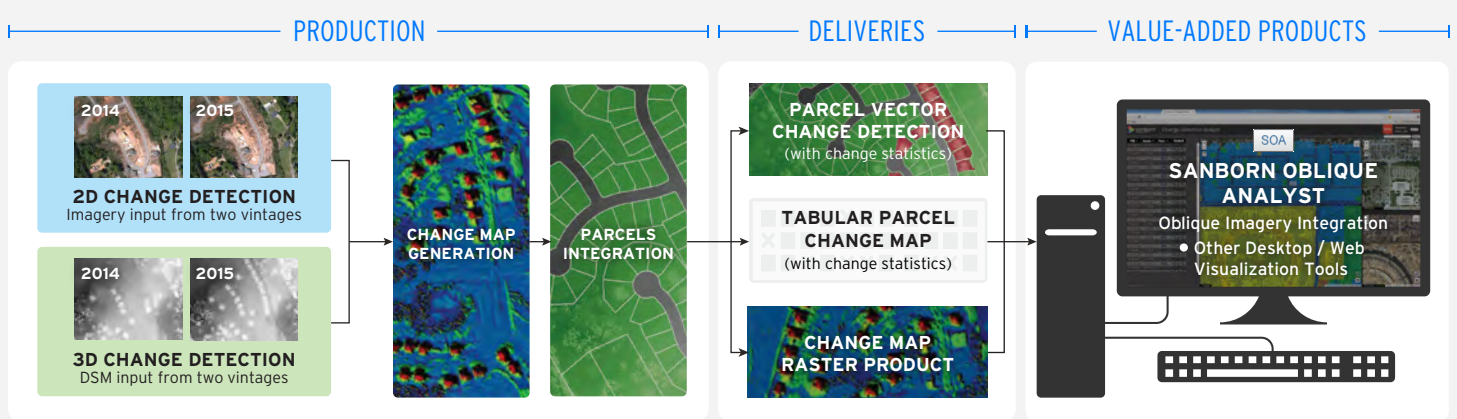


Workflow Integration: After you've selected a parcel for review in the change detection panel, simply click **SOA** the button in the Change Detection Analyst Parcel Info pop-up window and you're instantly taken to the same parcel's exact location in the Oblique Analyst Web-Based Viewer—from which you can confirm immediately any change to the parcel using the five SOA imagery views. In addition, users can perform further parcel analysis using the SOA suite of comprehensive measurement tools.

For more information, or to demo Change Detection Analyst, please call 1-866-726-2676, send an email to info@sanborn.com, or visit us online at: sanborn.com/spatial-analysis/

Sanborn Change Detection Process Flow

To eliminate the time and expense of visually searching large datasets for changed features, Sanborn has developed advanced analysis and processing techniques for application to imagery and DSM datasets. This flow chart documents our comprehensive approaches to change map creation, polygon integration (e.g. Parcel) and visualization/work flow.



2D Change Detection

Sanborn 2D Change Detection service applies advanced imagery, analysis, and processing techniques to analyze spectral, textural, and linear feature changes in different-dated orthoimagery sets. This process “highlights” areas where change has occurred and delivers a raster mosaic “Change Map” that allows users to efficiently locate areas of change.

3D Change Detection

3D Change Detection works by comparison of a new autocorrelated digital surface model (DSM), with an older DSM using surface subtraction techniques. Areas of 3D change are flagged as updated. The 3D change detection process allows for identification of areas of change in the vertical plane such as structures and vegetation.

Change Map

Combined results from the 2D and 3D Change Detection process produce a final change map. This raster-based map is color shaded to show levels of change significance. The example above shows red areas where significant change has occurred and blue areas where no change has occurred.

Parcels Integration

Sanborn can integrate the parcel database information with the change map data. This allows for a parcel-by-parcel change map. Sanborn can also provide a parcel by parcel change map probability-based model based upon the amount of change seen within a specific parcel.

Deliverable Formats

Sanborn can deliver Change Detection data in multiple formats.

Parcel Change

This vector format delivery identifies parcels (with percentage of change attribution) that have changed based upon the intersection of the change map and parcel database.

Tabular Parcel Change

Database delivered in tabular form.

Change Map Raster

Raw Change Map data can be delivered in raster format (data not combined with parcel polygons). User can use as a map overlay in common GIS software.

Value-Added Products

Sanborn is an industry leader, providing custom GIS software solutions to address geospatial information needs. Our solutions are built using industry standard development platforms and integrate state-of-the-art data access and analysis applications to integrate database, software, and technology development / implementation with a focus on providing robust, turnkey solutions. These services reflect our rich history in change detection and our experience in migrating geospatial information into mainstream IT business activities.

Sanborn software integration solutions include the ability to view multiple windows of source data side by side. Furthermore, the software allows the user to organize parcels based upon percent of change, or parcel numbers and addresses, or other identifiers used to search for a parcel. Once a parcel is identified, users can select by clicking in the hyperlink and the resulting side by side windows will open showing the same parcel with the two source images side by side. This capability is integrated as an extension to Sanborn's Oblique Analyst (SOA) software.

For more information or to demo Sanborn Change Detection Analysis products or services, visit us online at www.sanborn.com, call Sanborn Customer Service at 1-866-SANBORN (1-866-726-2676), or contact us by e-mail at info@sanborn.com.