

Welcome to GIS DAY 2023

Using GIS technology to explore, innovate, and
transform Santa Clara County

November 1, 2023





**Know more about your property and neighborhood
through Santa Clara County's SCCMap**

Michelle Wang & Sumy Tom

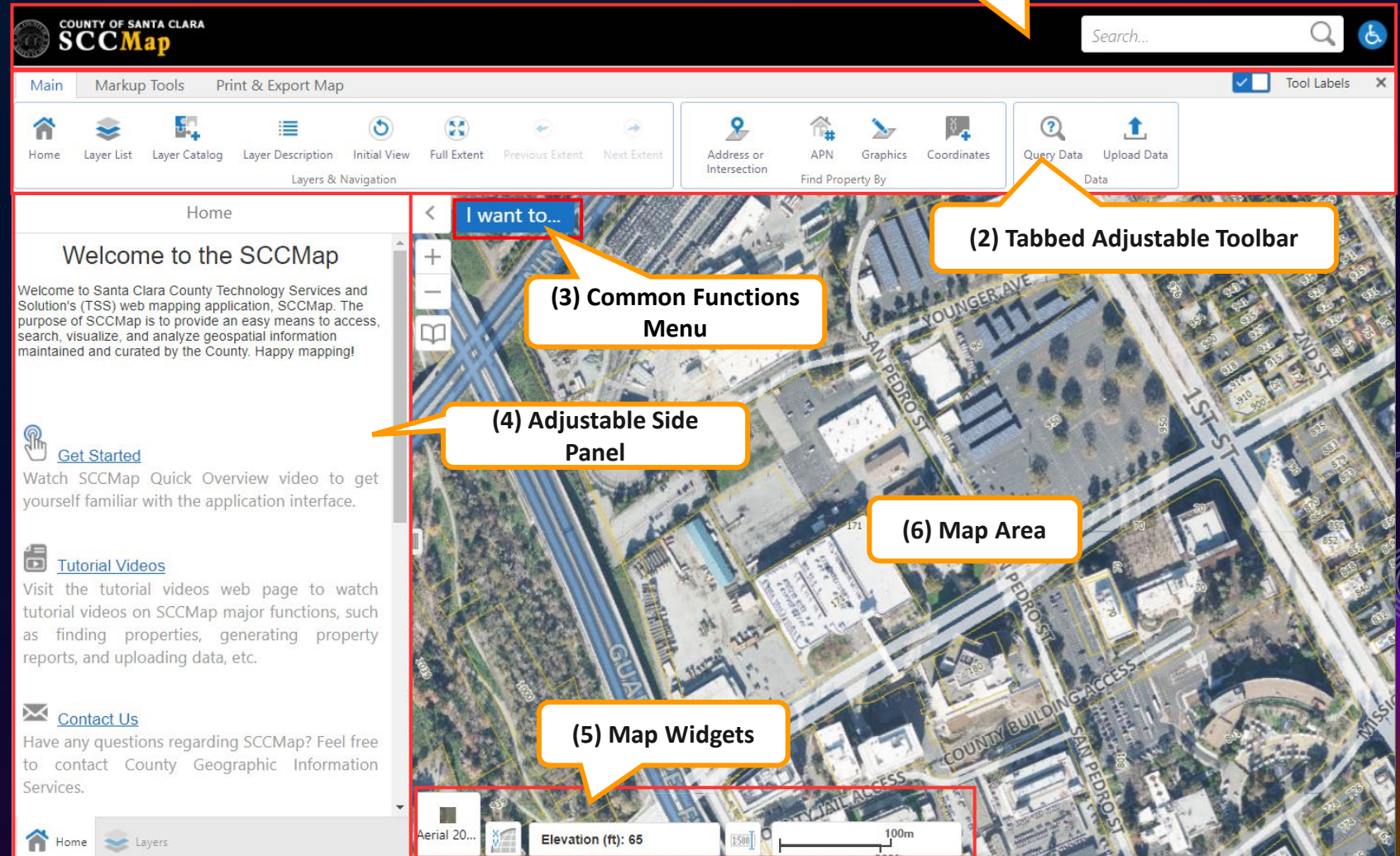
SCCMap – A Web Mapping Application

- Publicly available: <https://geoess.sccgov.org/discovergis/sccmap>
- Can be used on desktop, tablet, and handheld devices



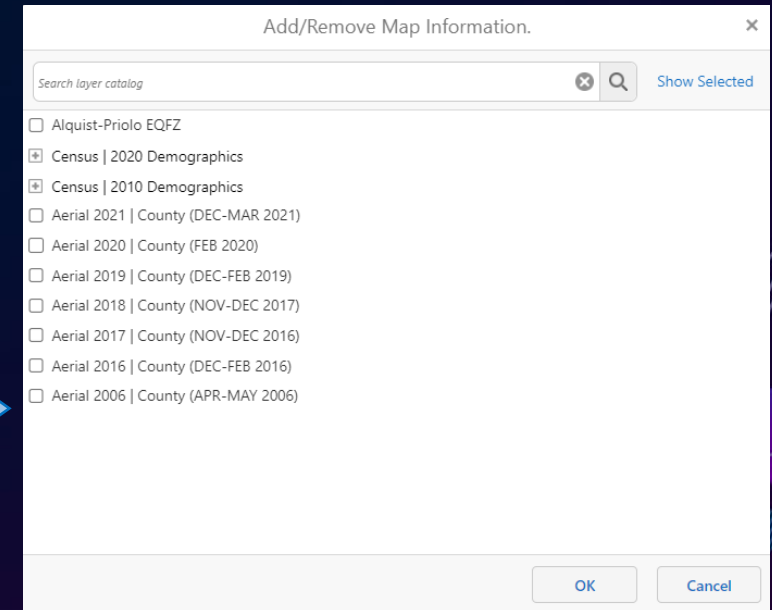
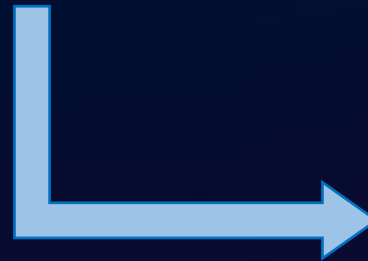
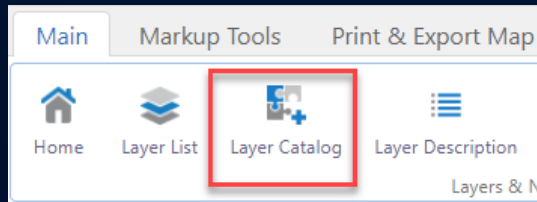
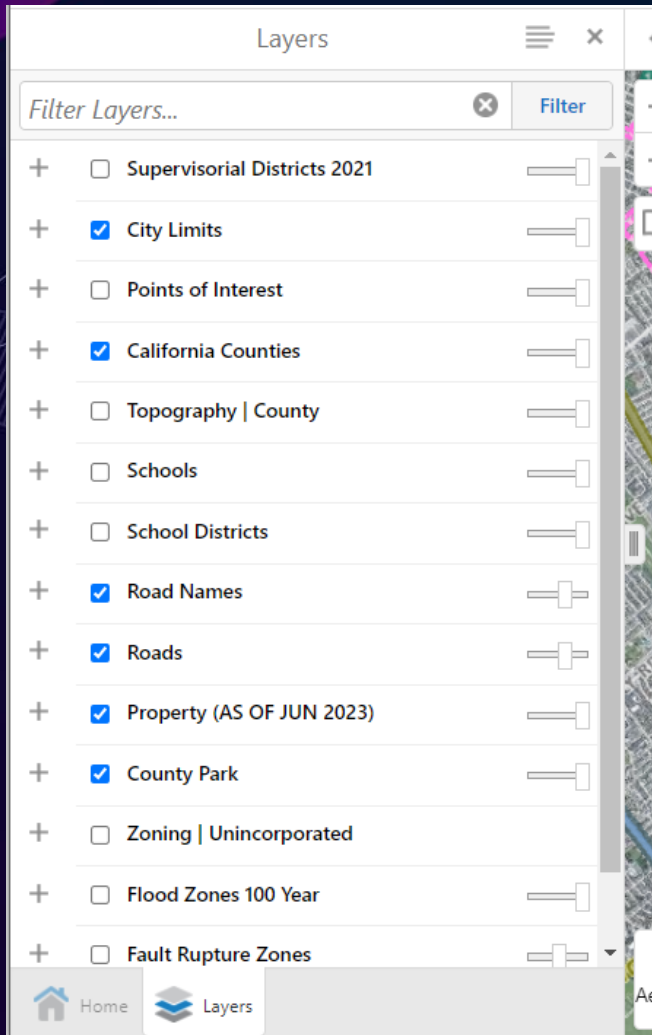
SCCMap – A Web Mapping Application

- User Friendly Interface



SCCMap – A Web Mapping Application

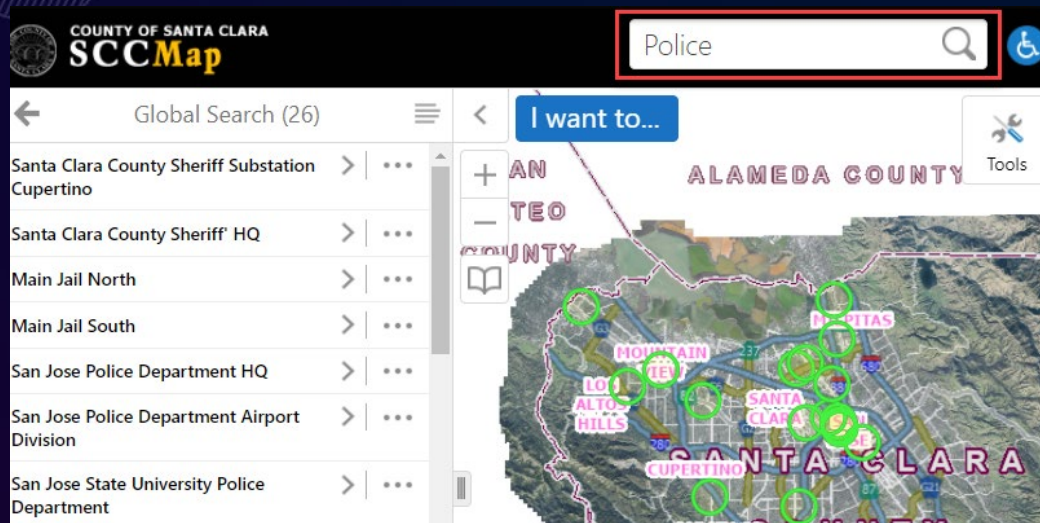
- Data are maintained and curated by the County
- Property layer and Aerial Imagery layer are updated annually
- Other data are updated quarterly or as needed
- Additional data can be added from Layer Catalog tool



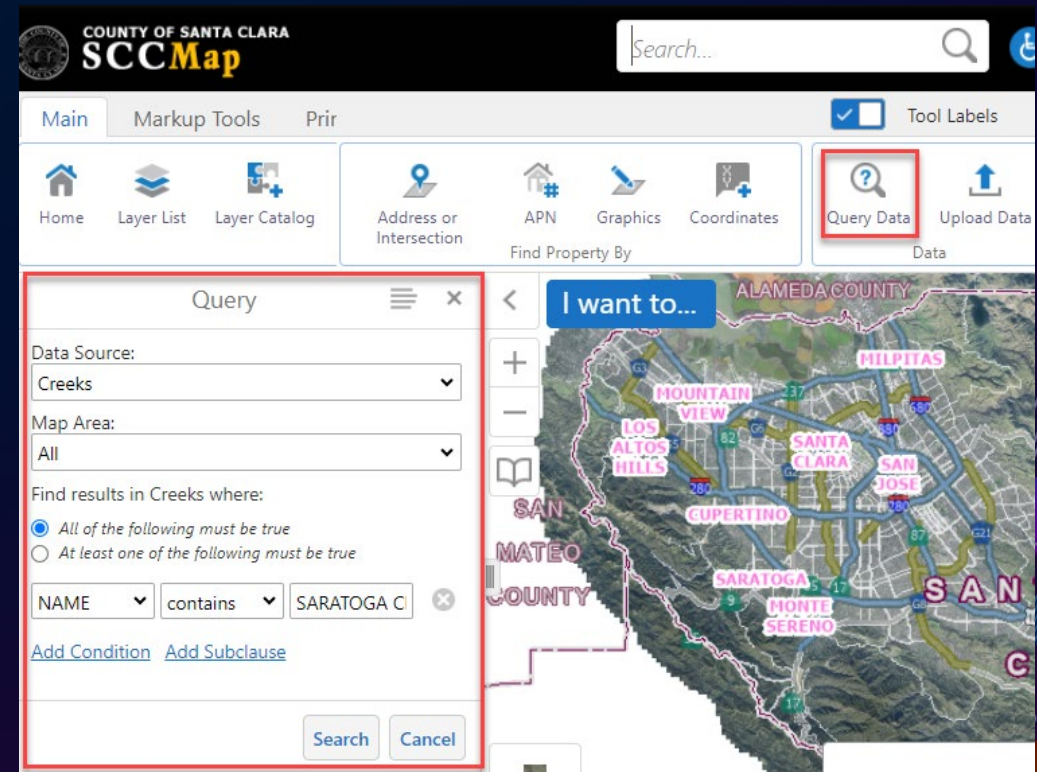
SCCMap – A Web Mapping Application

Search Functions

Global Search allows users to search for a location by address, place name, place type (e.g., library, BART Rail Station, etc.), street intersection, parcel APN (Assessor Parcel Number), etc.



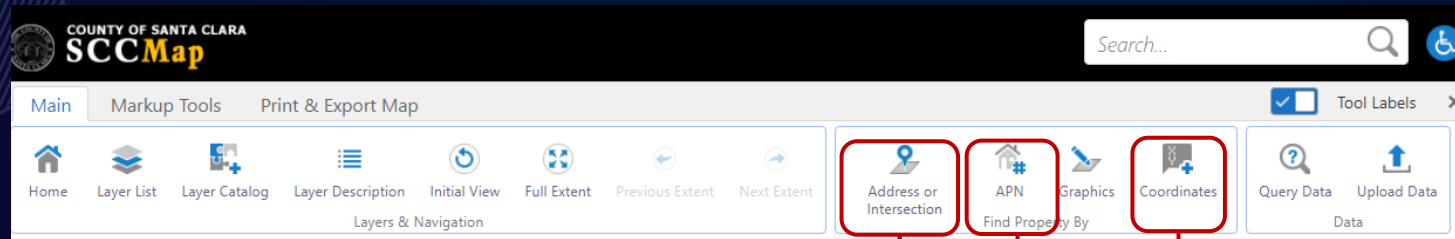
Query Data enables users to construct queries for specific features on a layer.



SCCMap – A Web Mapping Application

Search Functions

3 property search functions provide ways for users to locate properties by address, street intersection, parcel APN (Assessor Parcel Number), and coordinates.



Find Property by Address or Intersection

Choose to search property by a property address or intersection and then provide the search values accordingly:

A property address

An intersection

Search by Address

Enter a property address, for example, 70 W Hedding St, San Jose, and click 'Search' to start the search.

Address:

1555 berger drive

Search Cancel

Find Property by Address or Intersection

Choose to search property by a property address or intersection and then provide the search values accordingly:

A property address

An intersection

Search by Intersection

Enter the street names of the intersection, for example, Main & 1st, and click 'Search' to start the search.

Street Names:

Lawrence & Prospect

* This search will display list of parcel addresses within 300 feet radius around the searched intersection.

Search Cancel

Search Property by APN

Enter an Assessor Parcel Number, for example: 16739153 (or 167-39-153), and click 'Search' to start the search.

APN:

61205007

Search Cancel

Plot Coordinates

Coordinate System:

WKID: 4326 Lat/Long

1 Lat 37.33769° N

Lon 121.82569° W

Coordinate 1 Actions

Find Parcels Here
Select any parcels that exist at the coordinate location

Hide Coordinate
Temporarily hide this coordinate.

Edit
Edit the location of this coordinate.

Delete
Delete this coordinate and remove it from the map.

SCCMap – A Web Mapping Application

More About a Property and its Neighborhood

Property Search Result and **Property Pop-up window** provide County Assessor's Office maintained property data and hyperlinks to other property data and functions.

The screenshot shows the SCCMap web application interface. At the top, there is a search bar with the text "Search..." and a magnifying glass icon. Below the search bar, the main content area is divided into two parts. On the left, there is a sidebar titled "Parcels (1)" which contains the following information: "Score: 100", "Address Candidate: 1553 BERGER DRIVE", "City/Zip: SAN JOSE 95112", "SITUS Information", "APN: 23714086", "Address: 1553 BERGER DR", "City/State/Zip: SAN JOSE, CA 95112-2704", "Zoning: [San Jose Zoning Map](#)", "General Plan: [San Jose General Plan Map](#)", "Calculate Parcel Average Slope", "Show Assessor Page", and "Show Planning's Property Profile". On the right, there is a map showing a satellite view of a residential area. A pop-up window titled "Parcels" is overlaid on the map, displaying the following information: "APN: 23714086", "Address: 1553 BERGER DR", "City/State/Zip: SAN JOSE, CA 95112-2704", "Zoning: [San Jose Zoning Map](#)", "General Plan: [San Jose General Plan Map](#)", "Calculate Parcel Average Slope", "Show Assessor Page", "Show Planning's Property Profile", "Remove from Results", "View Additional Details", and "Run a Report". A red box highlights the "Run a Report" button, and a red arrow points from it to the right.

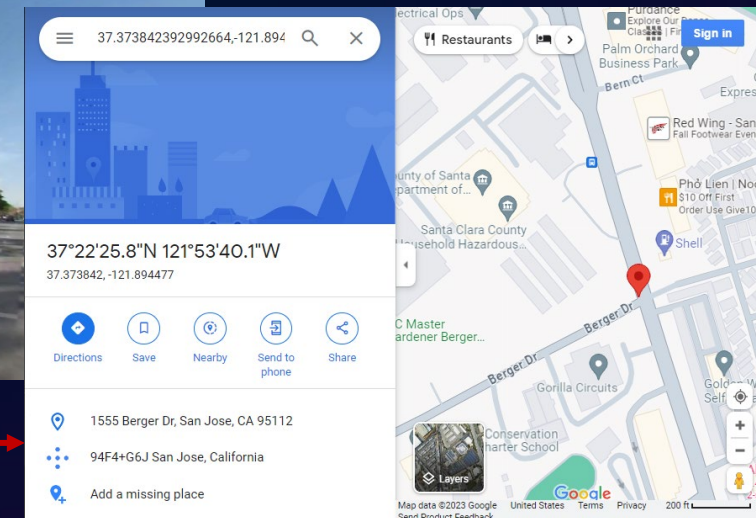
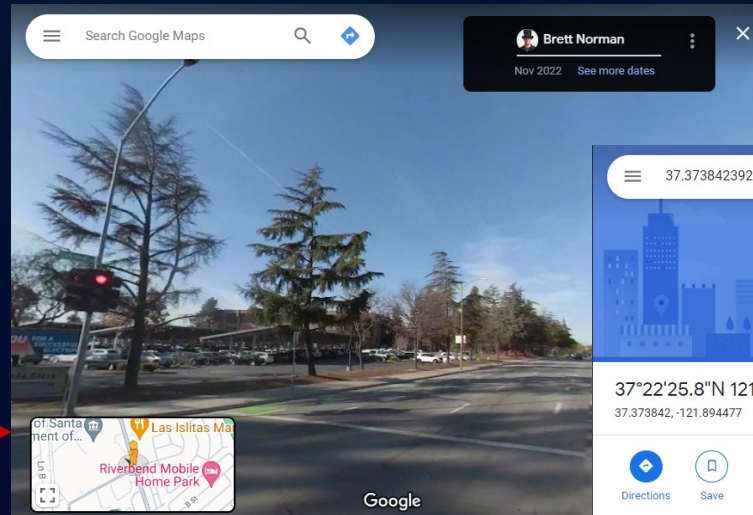
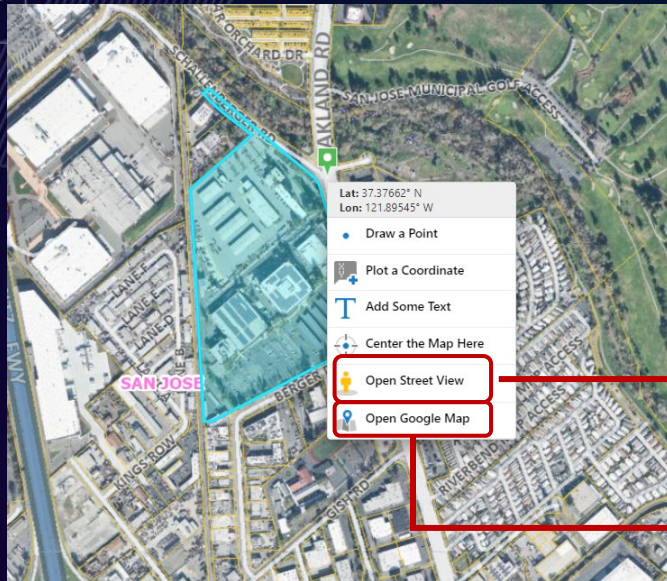
The screenshot shows a "County of Santa Clara Parcel Report" document. At the top, there is a logo for the County of Santa Clara and the text "County of Santa Clara Parcel Report". Below the logo, there is a "Parcel Information" section with the following details: "APN: 237-14-086", "Site Address: 1553 BERGER DR", "SAN JOSE, CA 95112-2704", "Tax Rate Area: 17072", and "Estimated Size: 1389736 sq. ft. / 31.9 acres". Below the "Parcel Information" section, there is an "Additional Information" section with a table of property details. The table has two columns: "Property" and "Value". The table contains the following rows: "AP_LP" with value "LP", "APN" with value "2371408", "NUMBER_OF_SITUS_ADDRESS" with value "2", "ParcelFeatureMapScale" with value "7580.60", "Shape_Area" with value "204831", "Shape_Length" with value "2145.11", "SITUS_CITY_NAME" with value "SAN J", "SITUS_CITY_NUMBER" with value "1553", "SITUS_HOUSE_NUMBER_SUFFIX" with value "CA", "SITUS_STATE_CODE" with value "BER", "SITUS_STREET_DIRECTION" with value "DR", "SITUS_STREET_NAME" with value "951", "SITUS_STREET_TYPE" with value "17072", "SITUS_UNIT_NUMBER" with value "17072", "SITUS_ZIP_CODE" with value "17072", and "TAX_RATE_AREA" with value "17072". Below the table, there is a satellite map showing the property location. The map is labeled "SAN JOSE" and shows a residential area with a large building highlighted in green. A red arrow points from the "Run a Report" button in the screenshot above to the "Run a Report" button in this screenshot.

Property	Value
AP_LP	LP
APN	2371408
NUMBER_OF_SITUS_ADDRESS	2
ParcelFeatureMapScale	7580.60
Shape_Area	204831
Shape_Length	2145.11
SITUS_CITY_NAME	SAN J
SITUS_CITY_NUMBER	1553
SITUS_HOUSE_NUMBER_SUFFIX	CA
SITUS_STATE_CODE	BER
SITUS_STREET_DIRECTION	DR
SITUS_STREET_NAME	951
SITUS_STREET_TYPE	17072
SITUS_UNIT_NUMBER	17072
SITUS_ZIP_CODE	17072
TAX_RATE_AREA	17072

SCCMap – A Web Mapping Application

More About a Property and its Neighborhood

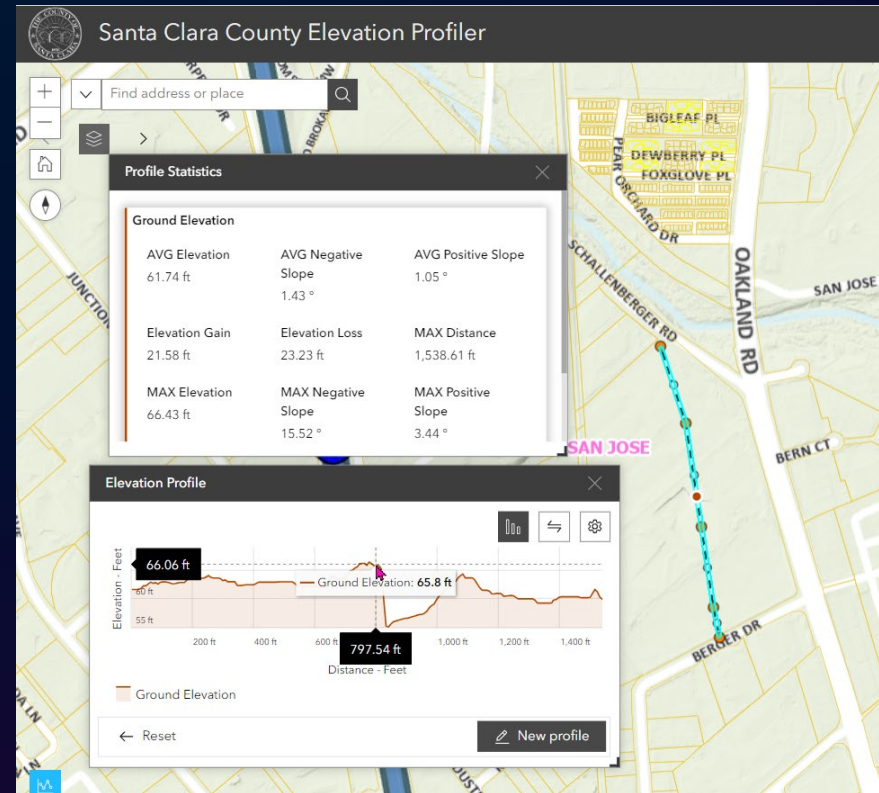
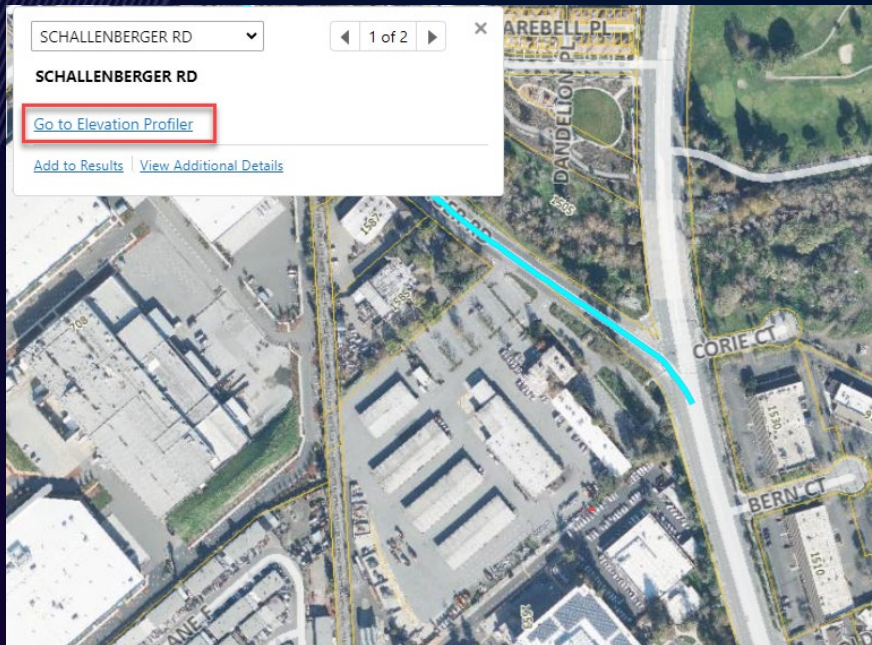
SCCMap can launch Google Street View and Google Map to the location selected by the end users



SCCMap – A Web Mapping Application

More About a Property and its Neighborhood

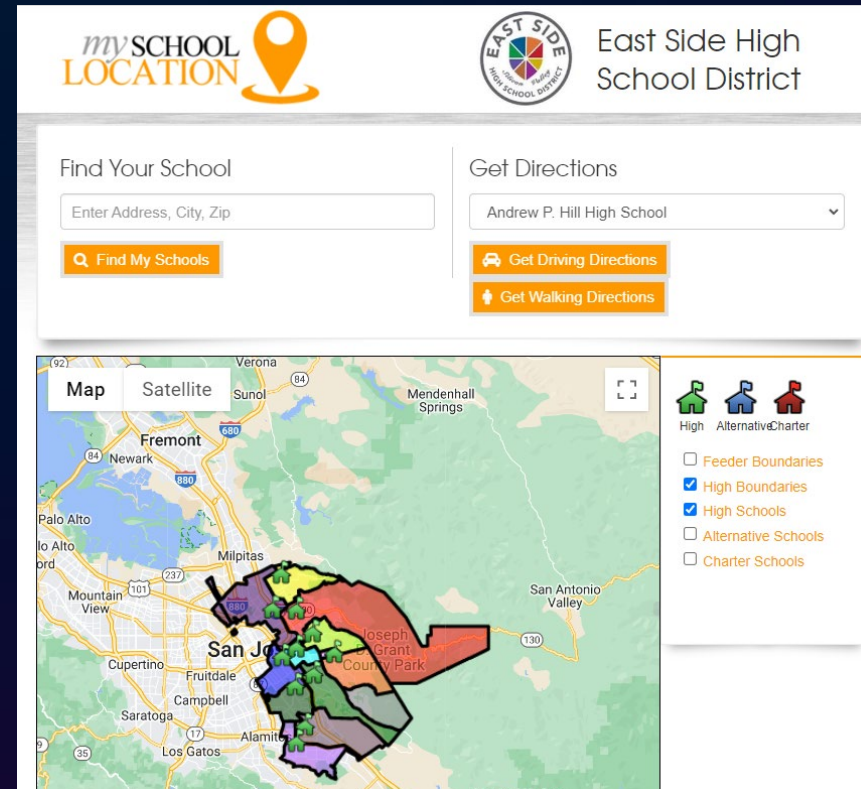
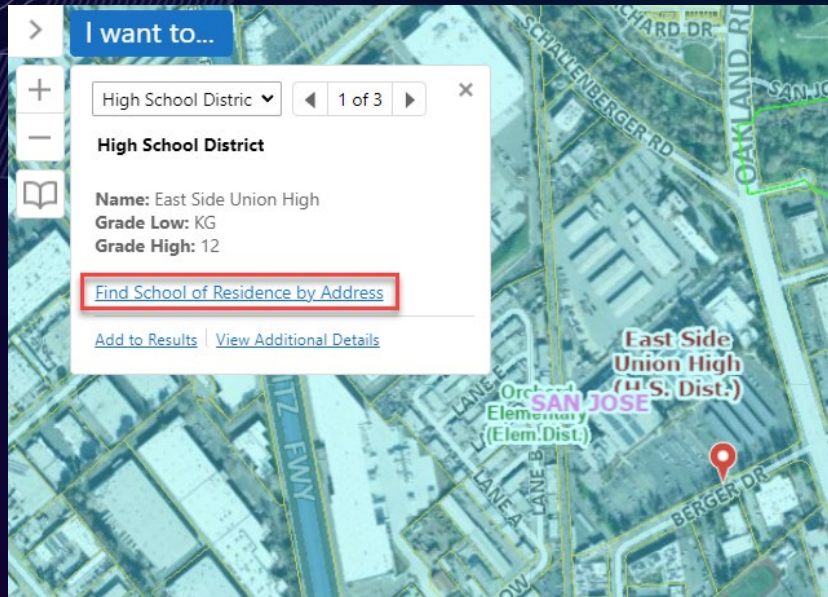
SCCMap can launch County's Elevation Profiler to a property selected by the end user.



SCCMap – A Web Mapping Application

More About a Property and its Neighborhood

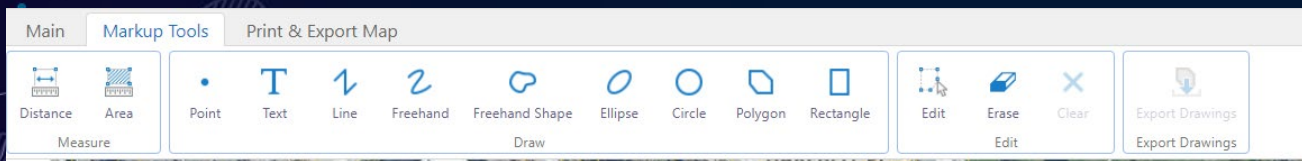
SCCMap can launch School Locator of a property's school district for the user to find out the school of residence.



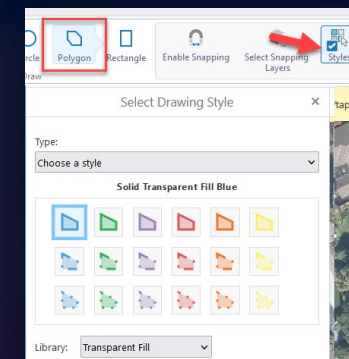
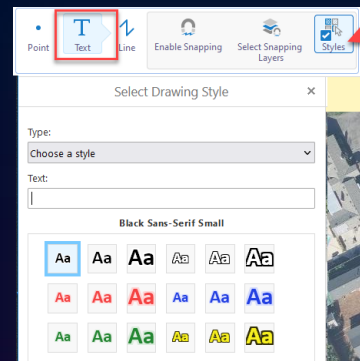
SCCMap – A Web Mapping Application

Markup and Measurement Tools

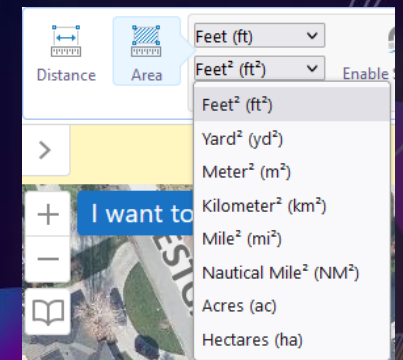
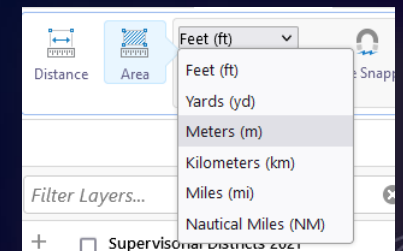
These tools allow users to add, style, edit markup text and shapes and to measure distances and areas.



Tools for styling drawings



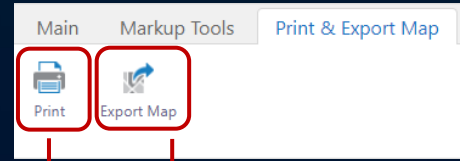
Tools for selecting measurement units



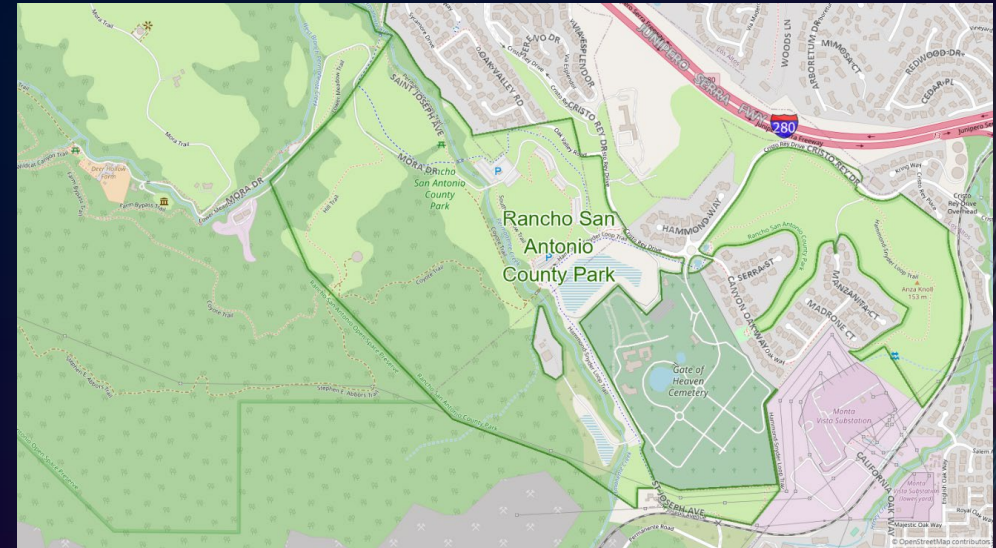
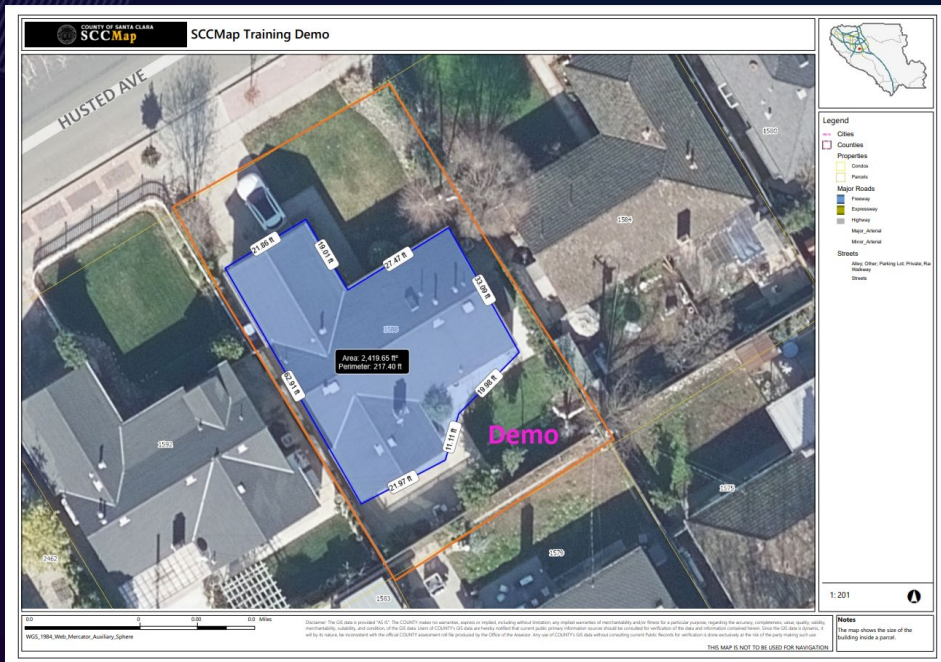
SCCMap – A Web Mapping Application

Print and Export Map

- The **Print** tool creates a printable version of the map, which includes title, map image, overview map, legend, north arrow, scale bar, disclaimer, and map notes.



- The **Export Map** tool exports the current map image to a file with georeferenced data, which can be used by mobile map apps for offline mapping.



SCCMap – A Web Mapping Application

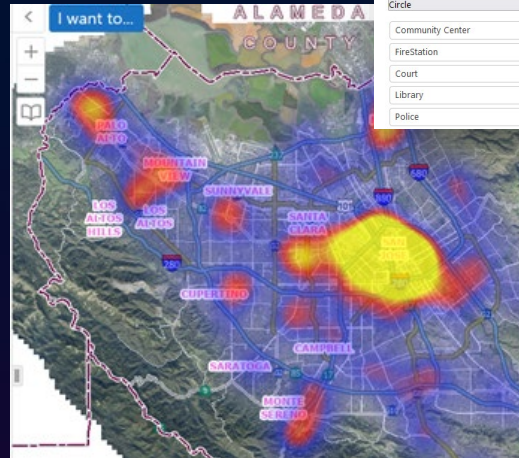
Visualize and Analyze Uploaded Data

- SCCMap allows users to upload their own data from a Shapefile, a XLSX file, or a CSV file, given that the XLSX file or CSV file contains addresses or spatial coordinates.

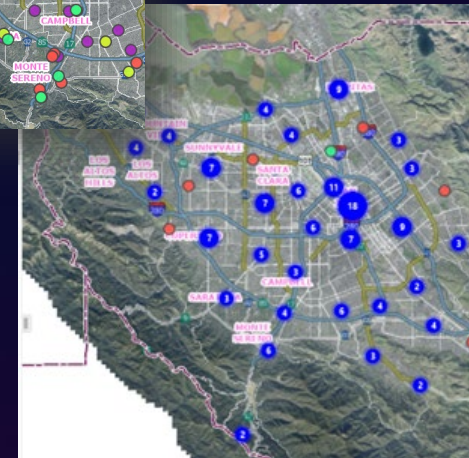
DISTRICT	STREET	CITY	STATE	ZIPCODE	PHONE
1	9750 MONTEREY RD	MORGAN HILL	CA	95037	(408) 210
1	14505 STETSON RD	LOS GATOS	CA	95030	(408) 857
2	111 BARNARD AVE	SAN JOSE	CA	95112	(408) 294
2	4320 S MONTEREY RD	SAN JOSE	CA	95111	(408) 225
2	2784 MONTEREY HWY	SAN JOSE	CA	95111	(408) 227
2	241 S JACOBSON AVE	SAN JOSE	CA	95128	(408) 254
2	1300 F	I	J	K	L
2	527 M	UNIQUEID	LATITUDE	LONGITUDE	LASTUPDAT
2	2800 F	12012C	37.33769317	-121.825694	8/9/2012 0
2	3010 F	22012C	37.2669632	-122.0157104	8/9/2012 0
2	1840 S	32012C	37.39199081	-121.8505496	8/9/2012 0
2	555 M	42012C	37.22107153	-121.8674259	8/9/2012 0
2	4210 F	52012C	37.28431837	-121.8332072	8/9/2012 0
2		62012C	37.2518754	-121.8044454	8/9/2012 0
		72012C	37.43248461	-121.8974406	8/9/2012 0
		82012C	37.22085484	-121.9769784	8/9/2012 0
		92012C	37.35871874	-122.0283352	8/9/2012 0
		102012C	37.33898563	-121.8787786	8/9/2012 0
		112012C	37.34693431	-121.8685736	8/9/2012 0
		122012C	37.33769937	-121.8671774	8/9/2012 0
		132012C	37.30660771	-121.9855454	8/9/2012 0
		142012C	37.28873122	-121.9858009	8/9/2012 0
		152012C	37.27105707	-121.9836883	8/9/2012 0

Symbolization based on Feature Attribute

Heat Map



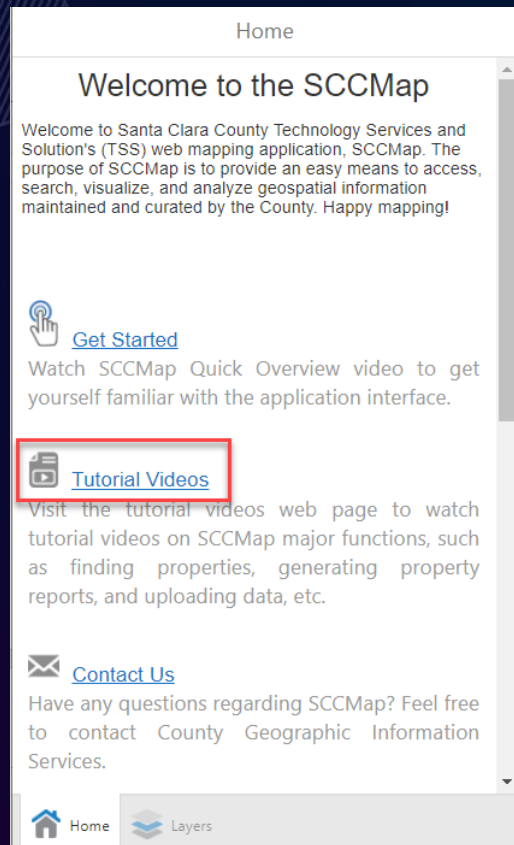
Clustering



SCCMap – A Web Mapping Application

Tutorial Videos


SCCMap Home panel has a hyperlink to the web page with tutorial videos on SCCMap's major functions




Home

Welcome to the SCCMap


Welcome to Santa Clara County Technology Services and Solution's (TSS) web mapping application, SCCMap. The purpose of SCCMap is to provide an easy means to access, search, visualize, and analyze geospatial information maintained and curated by the County. Happy mapping!

 [Get Started](#)



Watch SCCMap Quick Overview video to get yourself familiar with the application interface.

 [Tutorial Videos](#)

Visit the tutorial videos web page to watch tutorial videos on SCCMap major functions, such as finding properties, generating property reports, and uploading data, etc.

 [Contact Us](#)

Have any questions regarding SCCMap? Feel free to contact County Geographic Information Services.

 Home  Layers



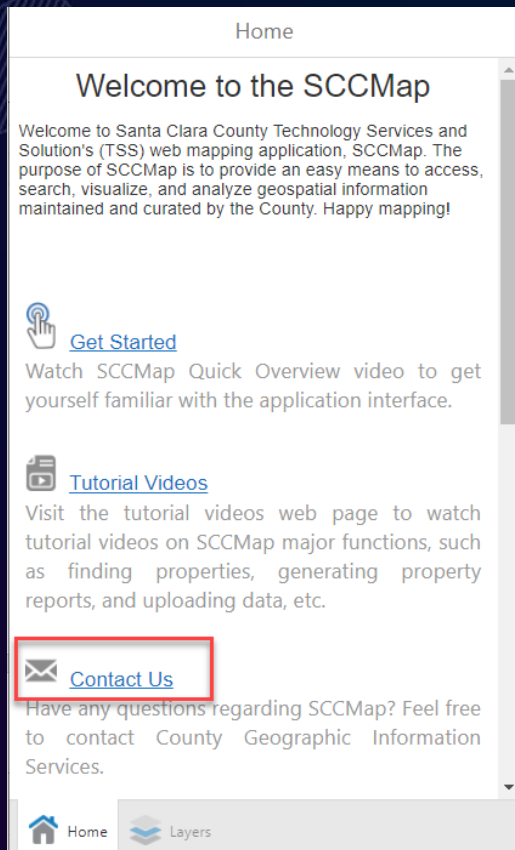
Training videos:

- Quick overview - map application navigation and major functions ([show me](#))
- Search Points of Interest locations ([show me](#))
- Identify Points of Interest nearby a location ([show me](#))
- Find a property by address and generate a property report
 - Step 1: Find a property by address ([show me](#))
 - Step 2: Generate the property report ([show me](#))
- Find a property by APN and generate a property report
 - Step 1: Find a property by APN ([show me](#))
 - Step 2: Generate the property report ([show me](#))
- Find school of residence by property address ([show me](#))
- Add layers to the map from a layer catalog ([show me](#))
- View layer description / metadata ([show me](#))
- Upload data from a XLSX or CSV file ([show me](#))
- Export map with georeference data to a GeoTIFF image file ([show me](#))
- Calculate the average slope of a parcel ([show me](#))
- Launch County Elevation Profiler to a location you are interested in ([show me](#))
- Launch Google Street View or Google Map to a location you are interested in ([show me](#))

SCCMap – A Web Mapping Application

Contact Us


We keep enhancing this application and encourage SCCMap users to contact us on any questions, suggestions, and requests.





Home



Welcome to the SCCMap

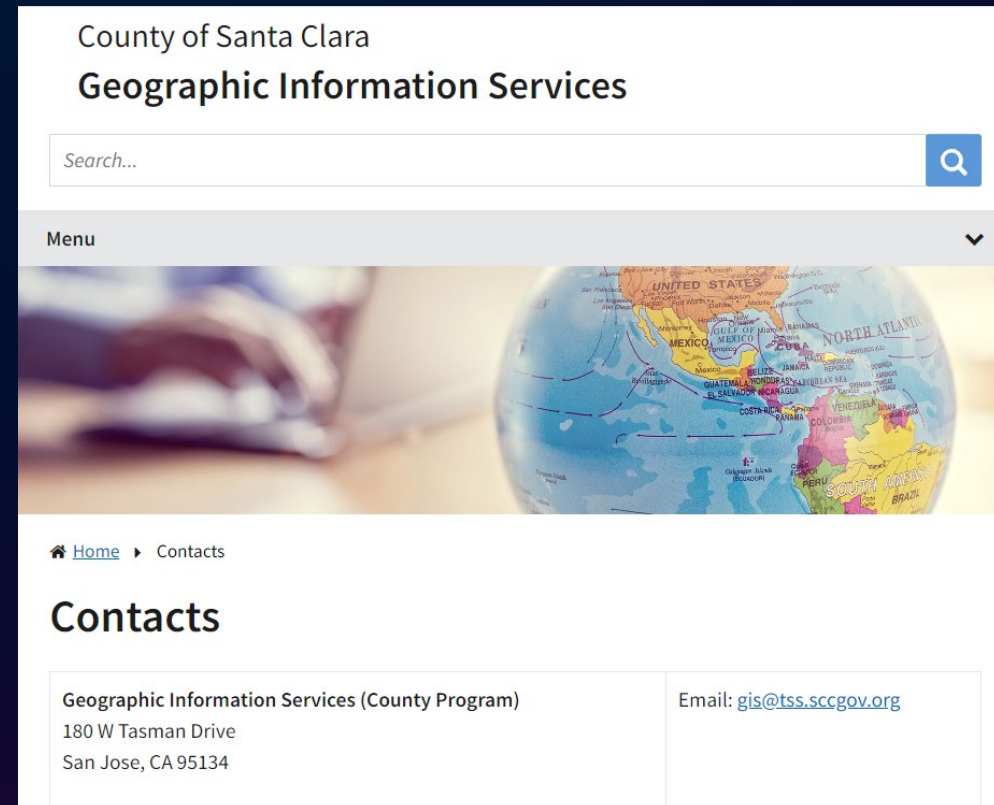
Welcome to Santa Clara County Technology Services and Solution's (TSS) web mapping application, SCCMap. The purpose of SCCMap is to provide an easy means to access, search, visualize, and analyze geospatial information maintained and curated by the County. Happy mapping!

 [Get Started](#)
Watch SCCMap Quick Overview video to get yourself familiar with the application interface.

 [Tutorial Videos](#)
Visit the tutorial videos web page to watch tutorial videos on SCCMap major functions, such as finding properties, generating property reports, and uploading data, etc.

 [Contact Us](#)
Have any questions regarding SCCMap? Feel free to contact County Geographic Information Services.


 Home  Layers



County of Santa Clara Geographic Information Services

Search...

Menu



[Home](#) ▶ [Contacts](#)

Contacts

Geographic Information Services (County Program) 180 W Tasman Drive San Jose, CA 95134	Email: gis@tss.sccgov.org
---	---

The background is a dark, almost black, rectangular field. It is framed by vibrant, multi-colored wavy shapes in shades of blue, purple, pink, and yellow, primarily along the top and bottom edges. On the left side, there are several white geometric elements: a series of thin, parallel lines forming a wavy shape, a small circle with a grid pattern, and a few small dots. On the right side, there are more white geometric elements, including a series of concentric circles and a larger circle with a grid pattern. The overall aesthetic is modern and abstract.

Thank you!

Questions	Answers
I am new to this so thank you for the overview. Are these maps available in other languages?	Currently only supports English, if you have any suggestions or requests for different languages, please contact us at gis@tss.sccgov.org
How often or what time of year are the maps updated?	The Parcel layer is updated annually in August; the Imagery layer is updated annually in December. The other layers are updated either quarterly (in January, April, July, and October) or as needed.
What are the new features that we should look for?	Any requests that we receive, we review as a case by case basis and add them to our feature request backlog. We update and implement these requests as time and resources permit.
How difficult was it to link the other maps in the presentation (school districts, elevation profiles, etc.) with the SCCMaps? Can you describe briefly what you guys did?	The map shown today is property related and is from the parcel pop up tool, for example if you click on the parcel, you can see the link where the data is coming from. In the pop up you can see additional connection options. Another option is by clicking on a road segment, you can view the links to the data. All of this was done using ESRI tools, such as Geocortex.
Are there any programming languages that are involved or is this mostly operated using tools	We used Geocortex Essentials framework to build this web mapping application. Besides the framework's OOTB tools, we also used the methods provided by the framework to extend its functionality. One of the methods we used is Geocortex Workflow, which is based on Microsoft Workflow Foundation and requires the use of VB expressions and C# code. Another method is to build Typescript custom module using the framework's SDK.

Q & A