



Opportunity Housing Debrief

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Project Context

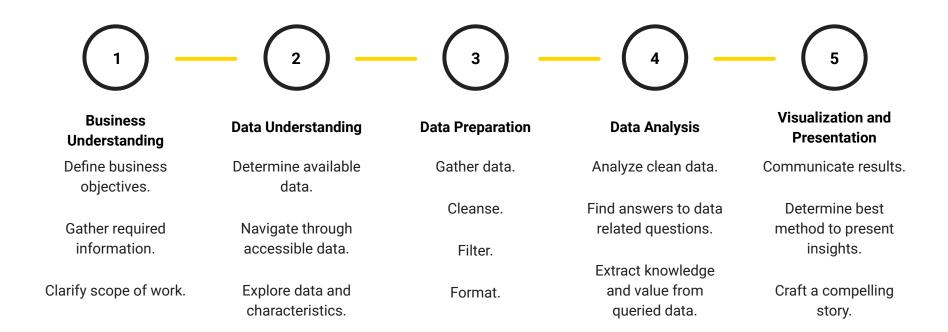
Opportunity Housing refers to **enabling multi-unit housing** on properties with a Residential Neighborhood General Plan land use designation.

It explores **allowing up to four units per parcel** (for example, a mix of a single-family home, duplex, triplex, or fourplex. This would enable up to a total of four units in a parcel, while generally maintaining zoning setbacks and heights.

This project entails an **impact assessment** on the **housing**, **renting**, **and lot size situation** of current **residents** based on properties within a ½ mile radius from transit versus those citywide.

Deliverable: An interactive visualization to display relevant statistics (e.g. density, tenure, etc.) for a given area when hovered over, specifically within a half mile radius vs citywide.

Methodology



Exploratory Analysis

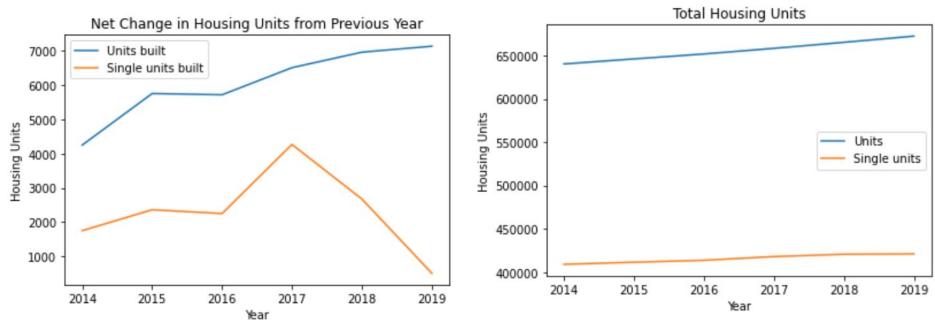
Much of our exploratory data analysis consists of the team better understanding how to navigate Census data (ACS).

Our first steps consist of:

- Identifying block groups in Santa Clara county
- Filtering to the San Jose level (by implementing GIS data)
- Calculating any relevant statistics

Santa Clara Housing & Single Family Units

Housing increases year over year. It appears there are about 4,000-7,000 housing units are added each year. Approximately 40% of these added units are single family units even though single family housing dropped in 2018/2019.



Source: American Community Survey

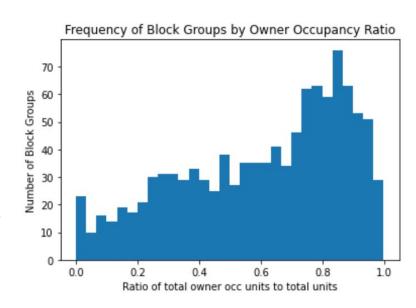
August 2, 2021

Santa Clara Housing Units & Tenure

The **average** number of housing units per block group in Santa Clara is **595**; the **median** is **512**. **56%** of the housing units are **owner occupied** and **329 out of 1075 block groups** have an **owner occupancy ratio**.

Number of block groups X Amt of Units:

- more than 0, less than 100 housing units: 7
- more than 100, less than 200 housing units: 22
- more than 200, less than 400 housing units: 293
- more than 400, less than 800 housing units: 554
- more than 800, less than 1,000 housing units: 105
- more than 1,000, less than 2,000 housing units: 94
- more than 2,000, less than 4,000 housing units: 9



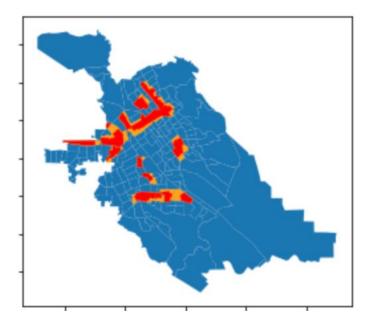
Proxies

Before identifying which block groups fell within interested transit radii, the team used **VTA stops** as a rough proxy. Block groups in San Jose that contained a **bus** or **light rail** stop were taken note of.

Soon after, we were able to identify which block groups were within a half and quarter mile radius of all transit systems noted for Opportunity Housing. The remainder of **this debrief uses the latter**, more refined proxy.

San Jose Block Groups & Transit Radii

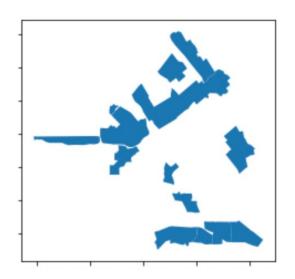
The **blue** represent all block groups within San Jose. The **orange** represents block groups within a half mile radius of interested transit systems, and the **red**, within a quarter mile.

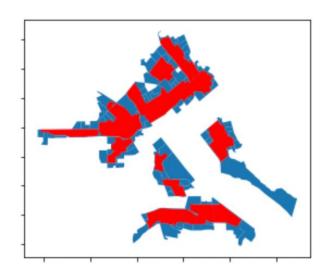


Source: City of San Jose Shapefiles

San Jose Block Groups of Interest

The **left** figure displays all block groups in San Jose that intersects any half mile radius of interested transit. The **right** figure plots said radii on top.





Source: City of San Jose Shapefiles

Analysis

Our work primarily consists of information discovered and statistics calculated for four areas:

- Housing
- Tenure (renter versus owner occupancy)
- Demographic
- Lot Sizes

Housing



How many single family units are there?

Out of total housing units,

- 54.8% are single family units in San Jose
- 42.2% are single family units in blocks within a half mile transit radius
 - 40.3% of these block groups have a VTA Bus stop
 - 37.5% of these block groups have a VTA Light Rail stop

Demographic & Tenure



What is the breakdown of owner occupants by race?

In **San Jose**, **48.6%** of housing units are occupied by owners.

In San Jose block groups within a half mile transit radius, 38.2% of housing units are occupied by owners.

Owner Occupancy by Race

Within San Jose	, 48.6%	of housing	units	are
occupied by own	iers.			

e Within SJ blocks in a ½ mile transit radius, 38.2% of housing units are occupied by owners.

White	23.2%	White	20.1%
Black	3.2%	Black	4.8%
Am Indian/Alaska Native	0.2%	Am Indian/Alaska Native	0.2%
Asian	18.6%	Asian	12.6%
Native Hawaiian/Pl	0.1%	Native Hawaiian/Pl	0.1%
Other	3.8%	Other	2.9%
2+ Race	1.7%	2+ Race	1.5%
White (Not Hispanic/Latino)	18.7%	White (Not Hispanic/Latino)	17%
Hispanic/Latino	9.1%	Hispanic/Latino	6.6%





Is there sufficient capacity to implement Opportunity Housing?

Median lot sizes:

- Of all ~250,000 parcels in San Jose: 6402 ft²
- Of the parcels in block groups with a VTA stop: 5727 ft²
- Of the parcels in block groups with a **VTA bus**: 5444 ft²
- Of the parcels in block groups with a VTA light rail: 6523 ft²
- Of block groups within ½ mile transit radius: 6062 ft²

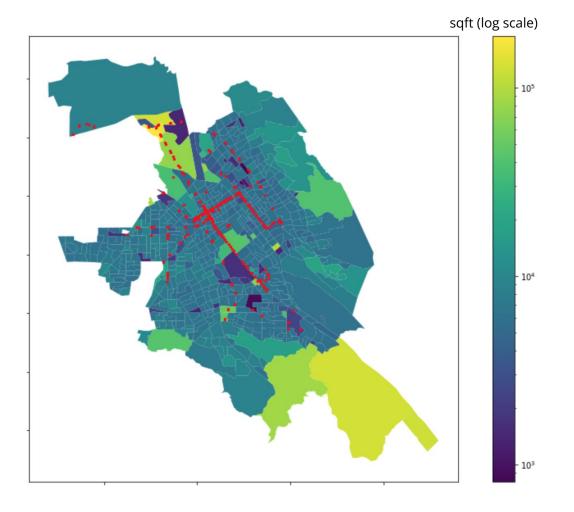
Median area for block groups within ½ mile of VTA stops: 0.145 miles²

Median area for block groups within ½ mile transit radius: 0.158 miles²

Our team merged the **geo-spatial data** of San José block groups and the parcels dataset on Open Data.

The **figure on the right** shows where lot sizes are generally larger or smaller at the block group level.

This merged dataset has potential for further analysis.



Thank You!