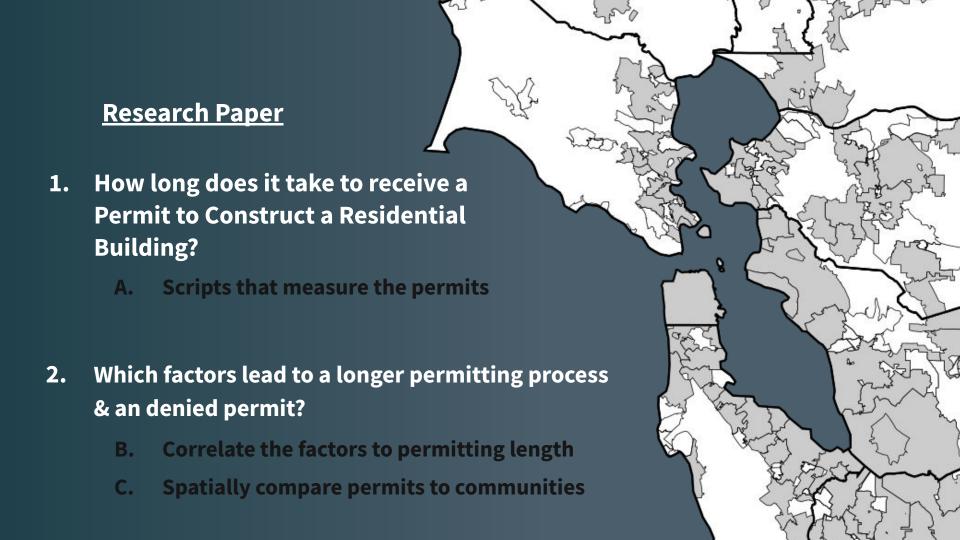




- 1. How long does it take to receive a Permit to Construct a Residential Building?
- 2. Which factors lead to a longer permitting process & an denied permit?
 - Is it the building's size?
 - Is it the public hearing process?
 - Is it the compounding result of white elites developing & maintaining discriminatory real estate practices & restrictive land-use controls that preserve racial, political, & economic hierarchies & segregation?



Study Areas

1. Walnut Creek

similar to Villanova, Thousand Oaks

- wealthy, primarily white suburb
- population of 69k
- data cleaning is already completed

2. San Francisco

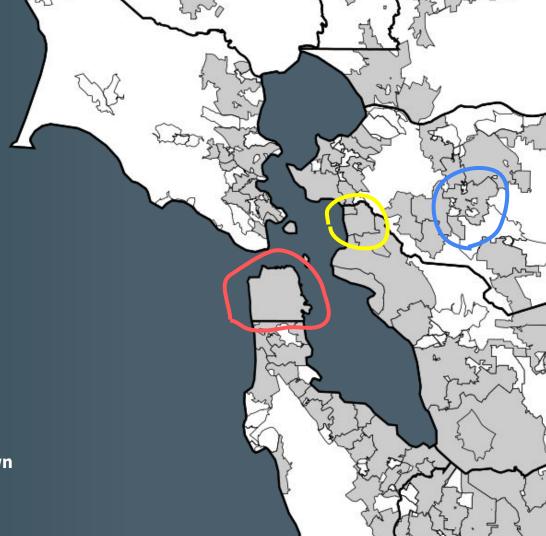
similar to Center City, some of Manhattar

- higher density, diverse city
- population of 874k

3. Berkeley

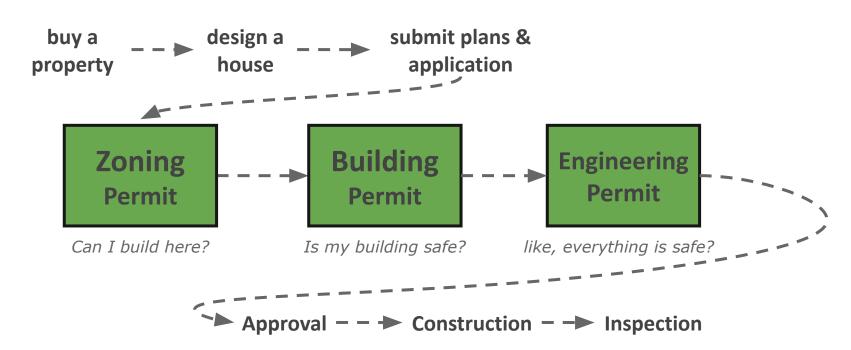
similar to University City, West Philly, Cambridge

- suburban & semi-dense college town
- population of 121k

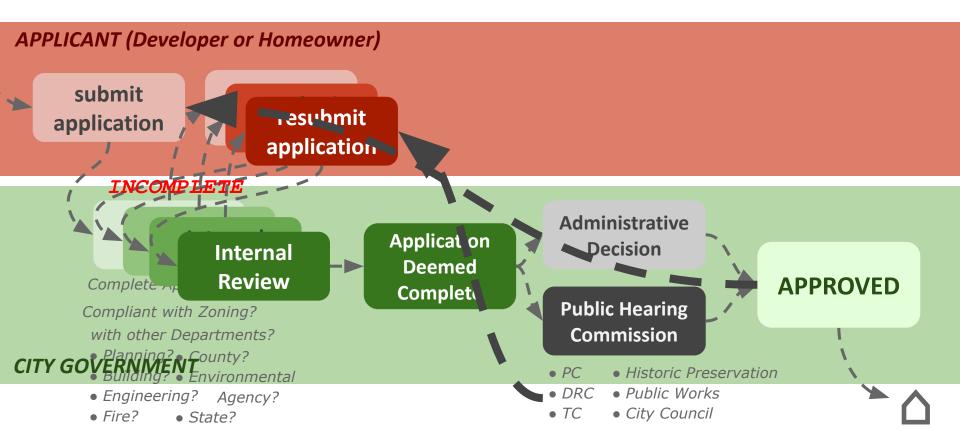


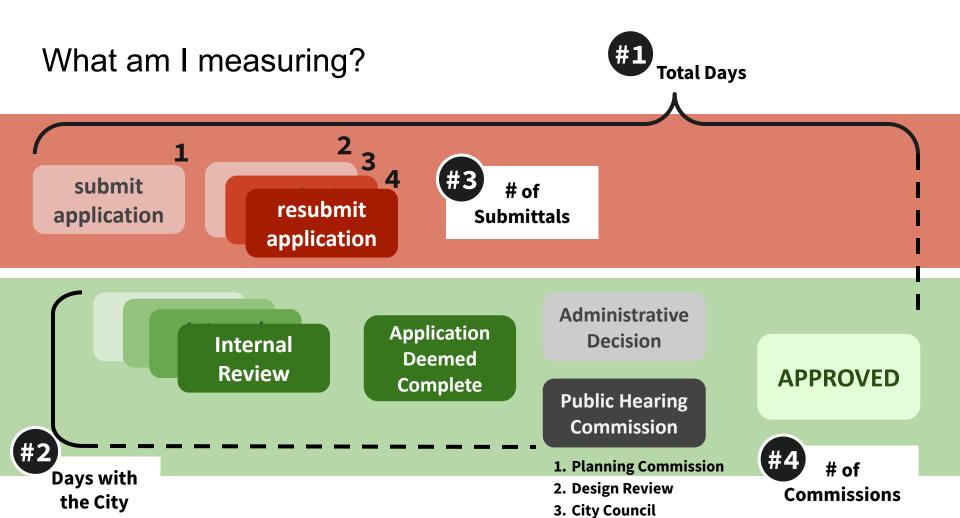
How Can I Obtain a Building Permit? (simplified)

how can i obtain a permit to build a building?



How Can I Obtain a Zoning Permit?





What does the data look like?

#3

of

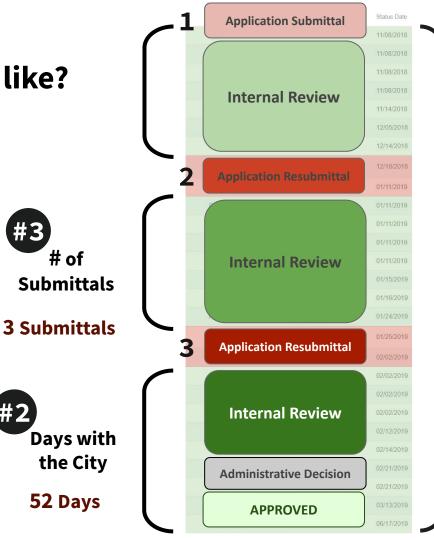
52 Days

Permit Timeline

- from a Government Permitting Database
- Timeline of Tasks

Permit Information

- **Building Type**
- **Associated Permits**
- Address



Total Days 81 Days



Applicatio

All Applications

1 Submittal

2 Submittals

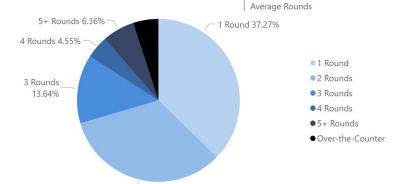
3 Submittals

4+ Submittals

Planning Permits

Permits per Round

220 35
Permits Average Work Days
2.04



2 Rounds 33.18% -

Permit Type	Permits	Average Rounds	Average Work Days	Average Total Days
Design Review Commercial	52	2	38	125
Other	46	1	30	81
Use Permit Conditional	26	2	58	118
Use Permit Administrative	25	2	35	162
Design Review Residential	24	3	47	163
Design Review Other	16	2	46	107
Tree Removal Permit		3	56	302



Project Steps

Data Cleaning

- 1. Measure Permits
 - a. Walnut Creek
 - b. San Francisco
 - c. Berkeley
- 2. Locate Permits

Academic Paper

- .. Gather Spatial Comparisons
 - a. Census Tracts Race, Income, Housing
 - b. Local Policy Data
- 2. Statistical Models
- 3. Spatial Models

Metric Dashboard

- . ETL Pipeline of Data
- 2. Power BI Dashboard
- 3. Web Map of Permits