

# Property Sales Analytics

Presented by Nate



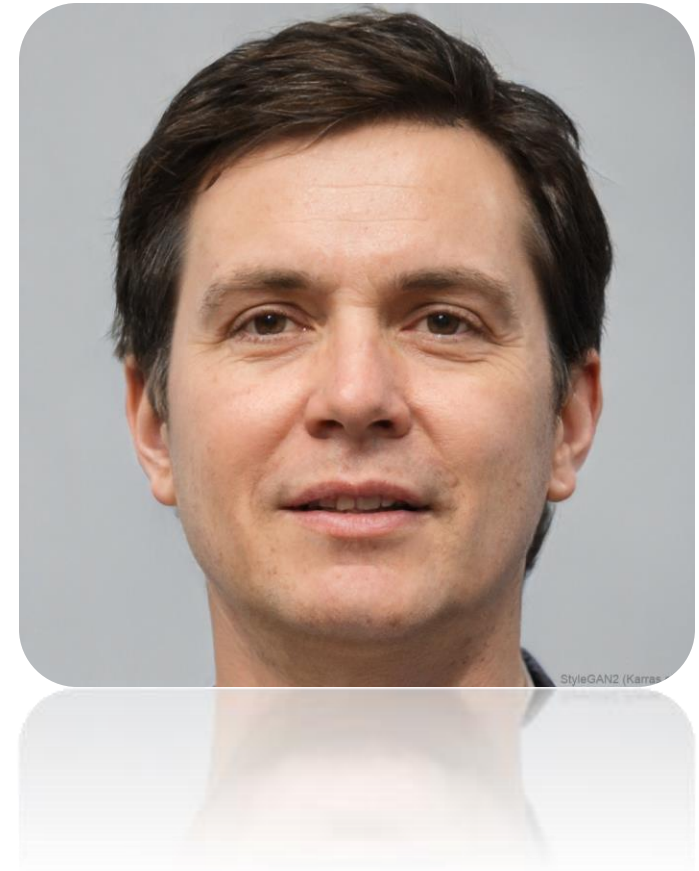
# Agenda

Client Overview → Requirements → Op. Specs →  
EDA → Analysis → 3 Concluding insights

Client →

# Meet Larry

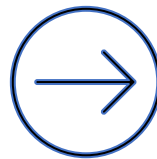
Hi I'm Larry Sanders. I want to buy a house!  
But not just any house . . I want it to be in a nice  
neighborhood. It should be central. Oh and  
also isolated. I have a limited budget . .



# Operationalizing the Client specs

## Reqs need to be clarified

- I needed to give my client Larry a call to establish what exactly his "limited" budget is . .
- Larry's contradictory requirement: "Nice & isolated but central"
- [...] "doesn't want his kids to play with other kids"



## Operationalized requirements:

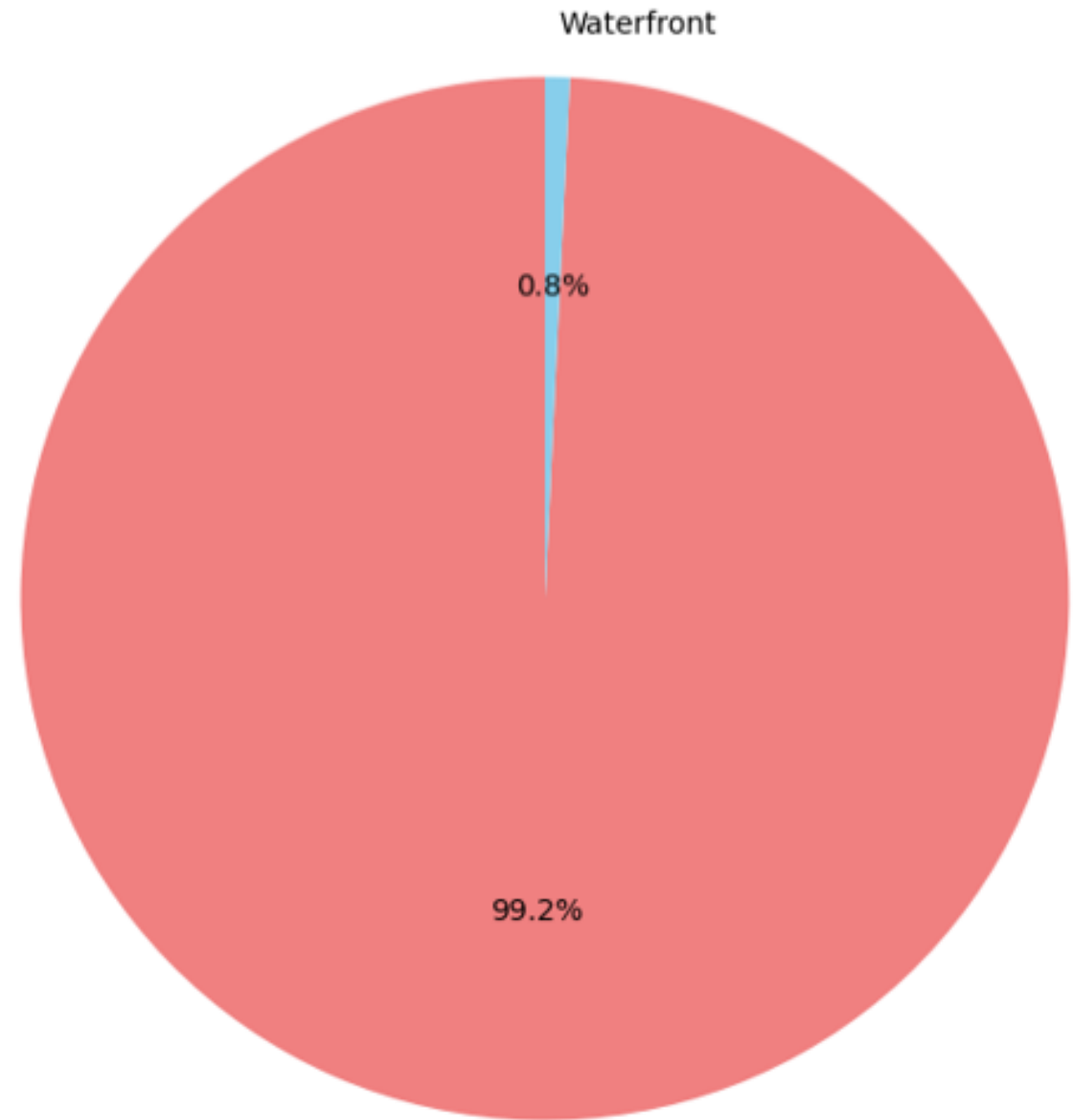
- **Budget:** "Limited" Clarified to be \$1,300,000
- **Location Preference:** Close to downtown Seattle (central)
- **Neighborhood:** Low population density (isolated)
- **Family Considerations:** Prefers neighborhoods with fewer children

EDA →

0.8%

Waterfront properties

Let's see if  
we can find  
Larry a  
home →





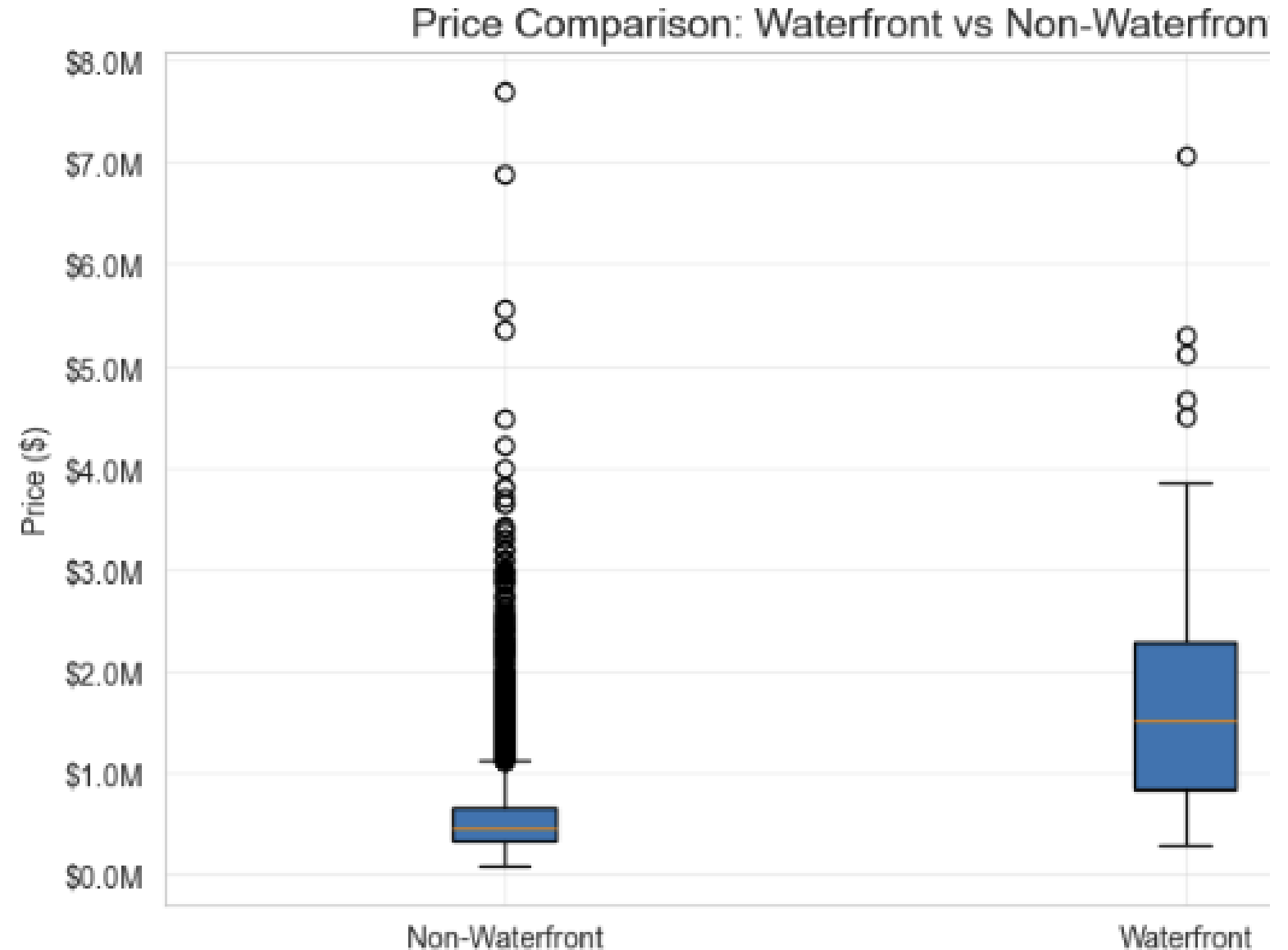
Remember  
Larry's  
budget:  
**1.3 mil.**

#### WATERFRONT ANALYSIS

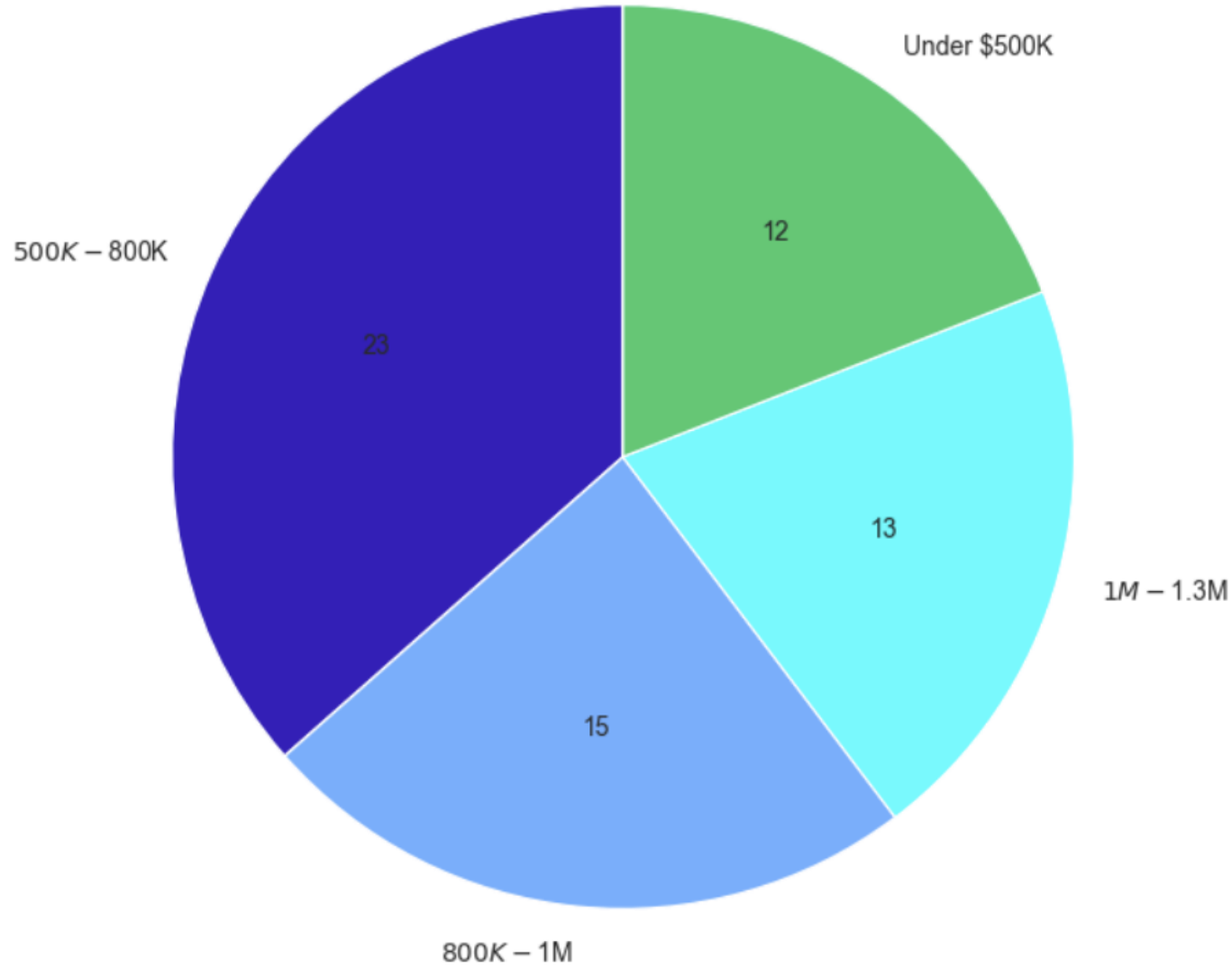
Non-Waterfront Median  
Price: \$450,000

Waterfront Median Price:  
\$1,510,000

Premium: 235.6% (3.4x)



Price Distribution of Larry's Options



# Larry's waterfront options

63 properties in total

# Insight #1

## Price Premium

Waterfront properties command a significant premium over non-waterfront properties:

## Impact on Larry:

With a \$1,300,000 budget, Larry can access approximately **43% of the waterfront market** (63 out of 146 properties).

## Larry's Position in Market:

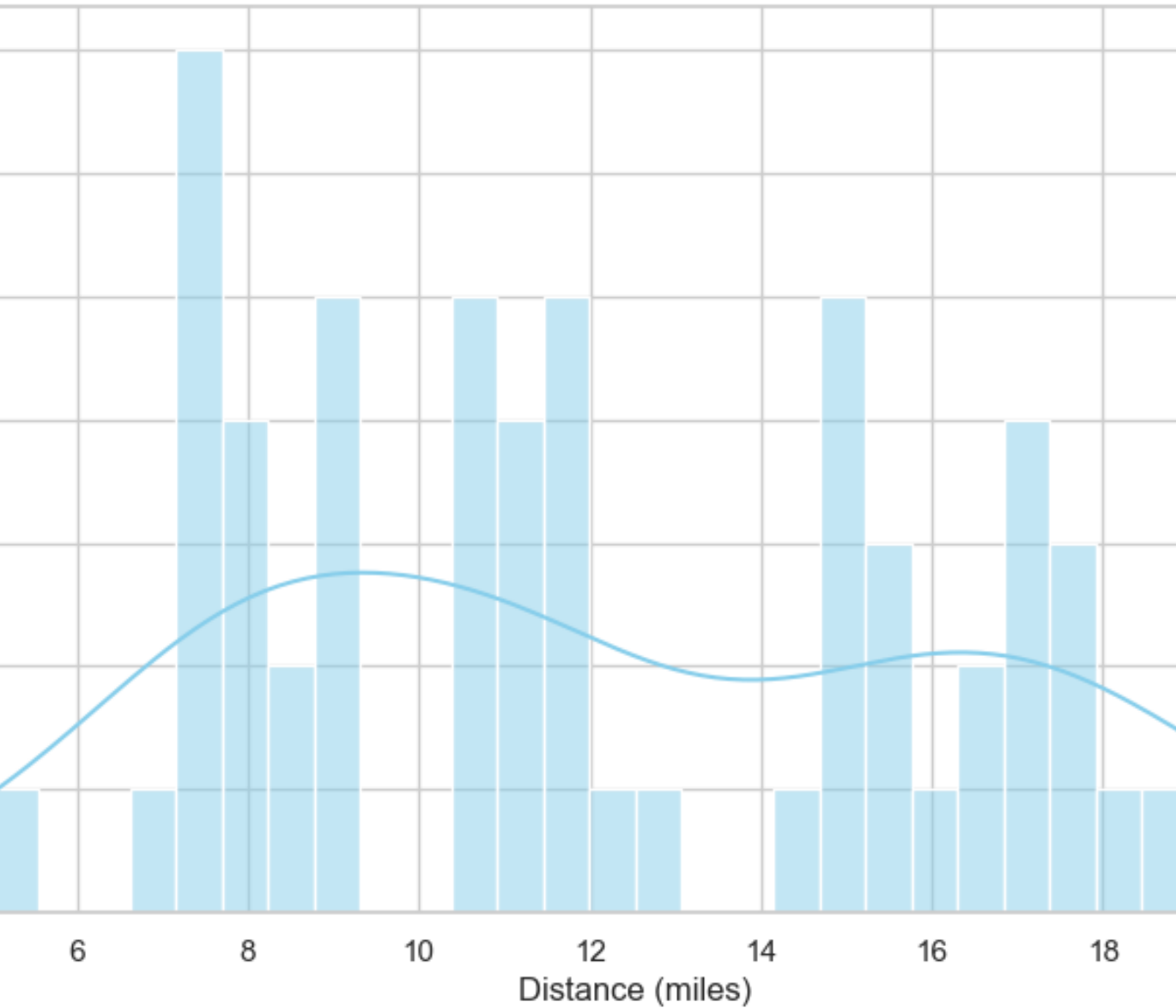
He is shopping in the lower-middle tier of waterfront properties, which limits but does not eliminate his options.

Larry is value-shopping in a premium segment

“I want something central .. but  
isolated”

Larry Sanders

Distribution of Distance to Downtown Seattle

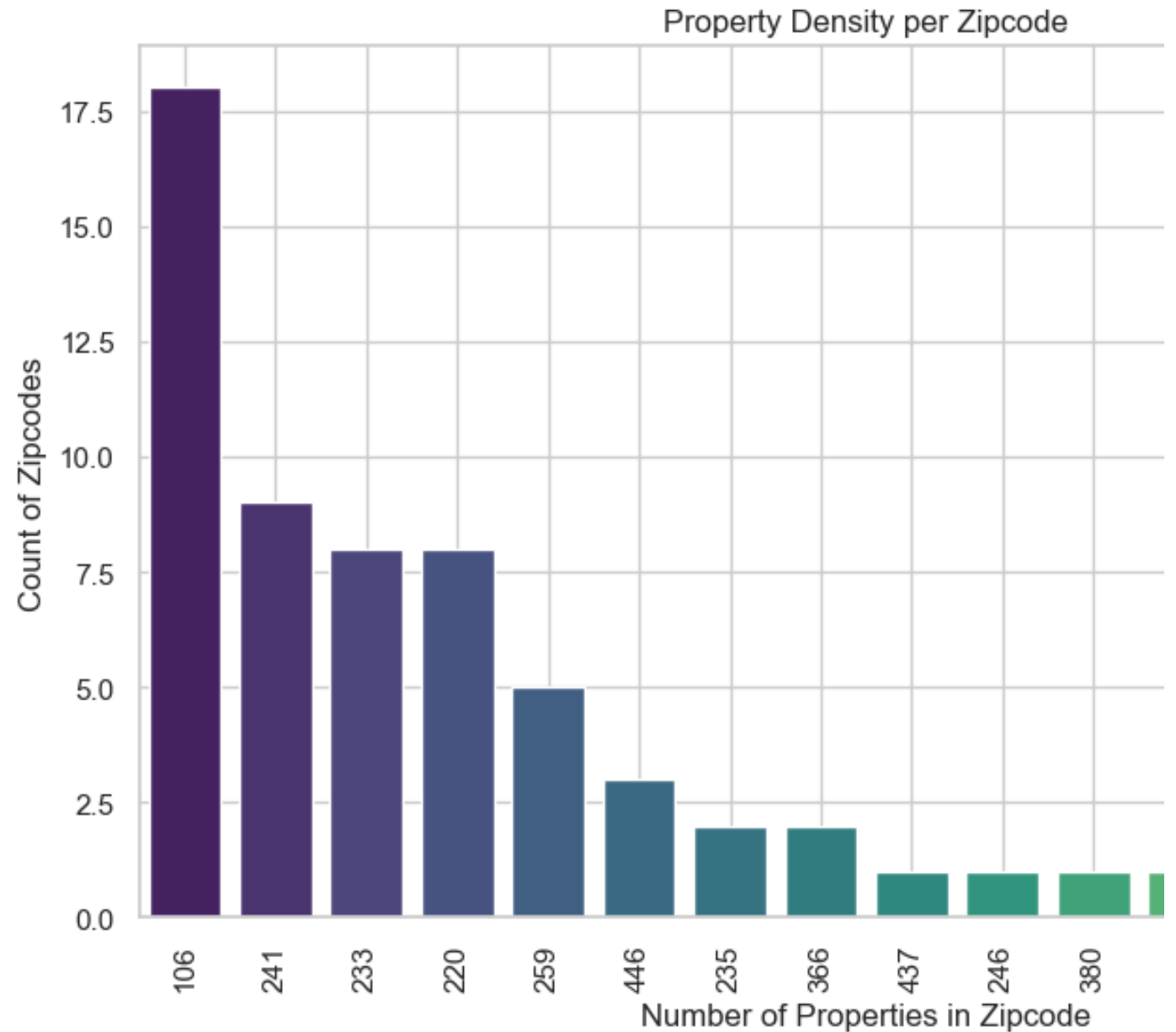


## "Central"

- **Location Preference:** Close to downtown Seattle (central)
- **Neighborhood:** Low population density (isolated)

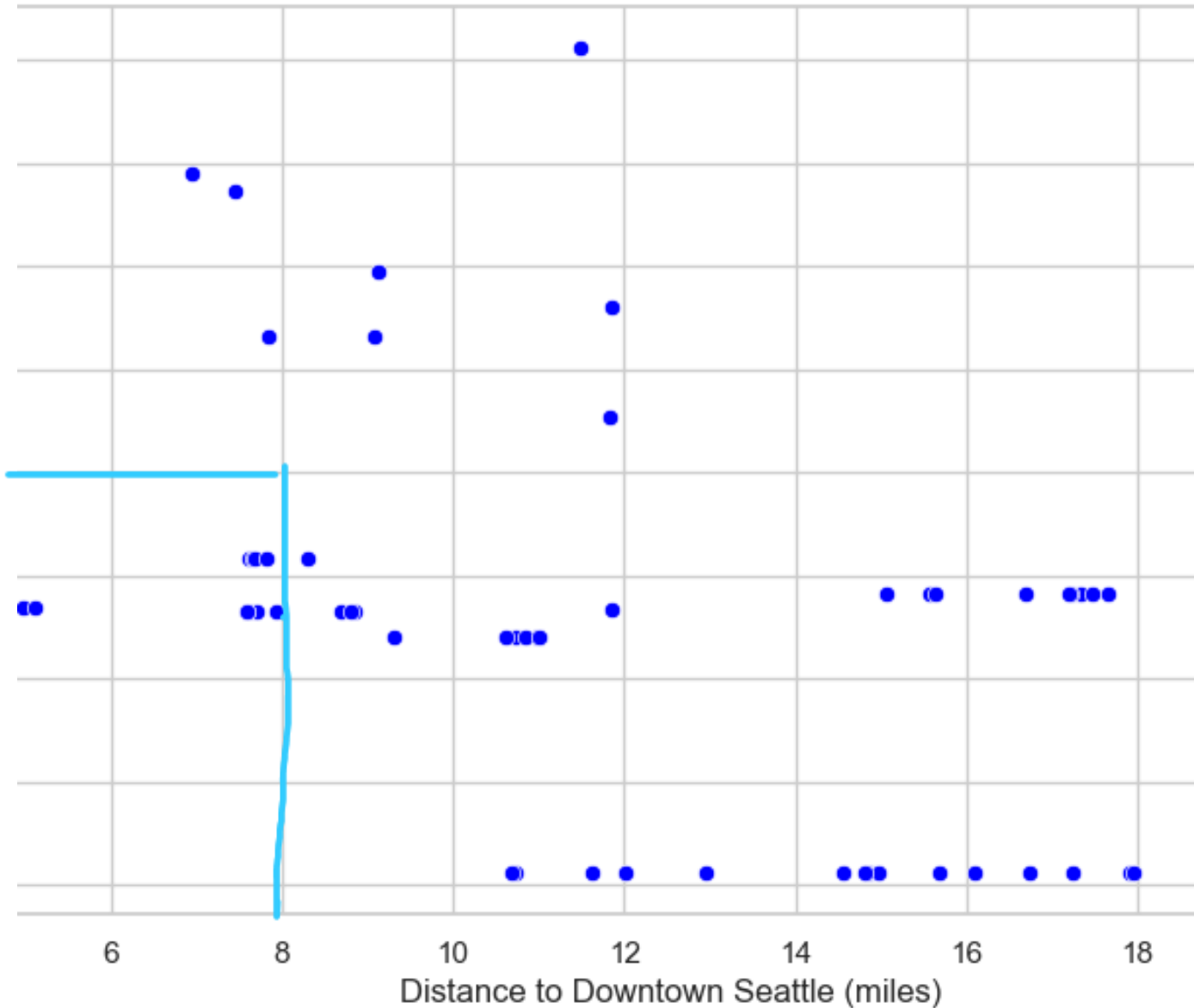
# "Isolated"

- **Neighborhood:** Low population density (isolated



1 mile = 1.609 km

Distance to Downtown vs Property Density



## Overlay

- Can we find something that is both close to downtown and has relatively lower property density?

# Insight #2

## Isolated / Central Paradox

### Distance Analysis:

Closest property to downtown: 4.46 miles

Farthest property: 20.61 miles

Average distance: 12.28 miles

### Density Analysis (Properties per Zipcode):

\*Most isolated zipcode: 106 properties

\*Least isolated zipcode: 506 properties

\*Average: 230 properties

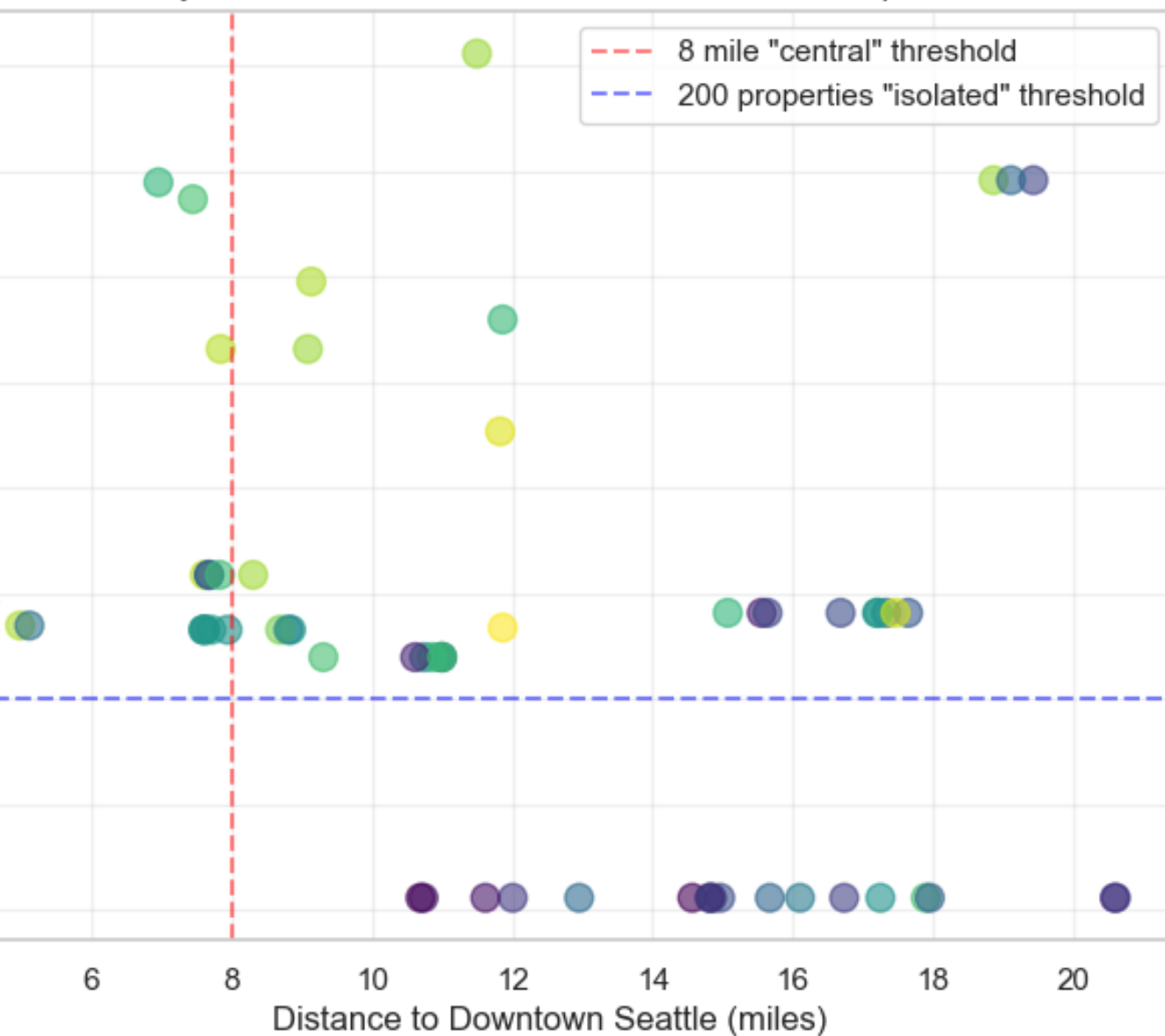
## Larry's Position in Market:

Properties within 8 miles of downtown Seattle are located in denser neighborhoods (235-445 properties per zipcode). True isolation (100-150 properties per zipcode) only exists 15-20 miles from downtown.

- **Implication: Larry must compromise on either centrality or isolation—the market does not offer both simultaneously at his price point.**



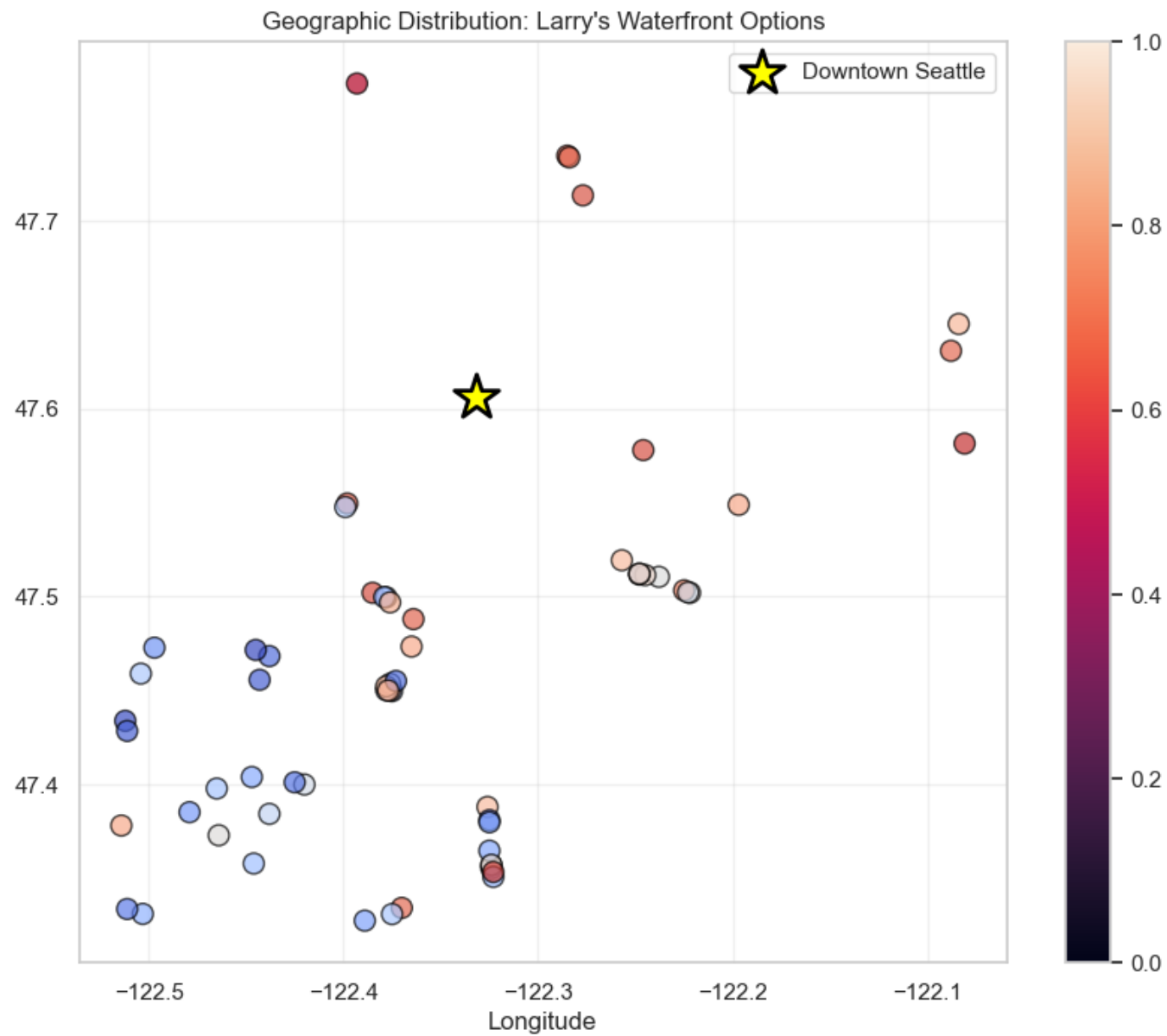
Larry's Dilemma: Central vs Isolated Waterfront Properties



# Larry's Dilemma

- Larry Needs to compromise

## Geographical analysis



# Insights #3

Zipcode 98136 Represents the Best Compromise

Among Larry's viable options, zipcode 98136 offers the optimal balance between his competing requirements.

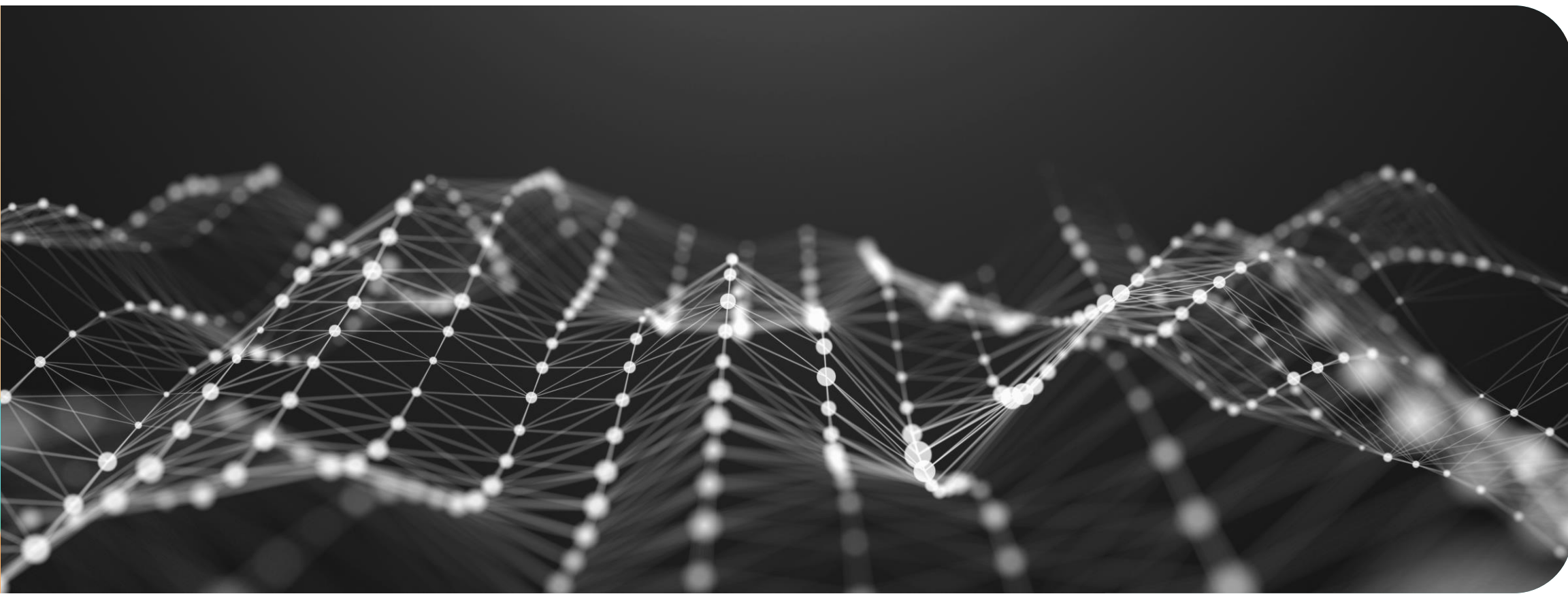
## 98136 Characteristics:

- \* Distance to downtown: 5-5.1 miles (highly central)
- \* Density: 235 properties per zipcode (lower third of density range) - Available properties in budget:
  - \* 2 properties - \$658,000 (most affordable in this zipcode) - \$1,180,000 (higher-end option)
- \* Average: 230 properties

## Larry's Position in Market:

While not truly "isolated" by suburban standards, 98136 is significantly less dense than downtown-adjacent neighborhoods (which average 400+ properties per zipcode) while maintaining excellent proximity to Seattle's urban core.

- **Implication: Larry should target his house search for Zipcode 98136**



Thank you