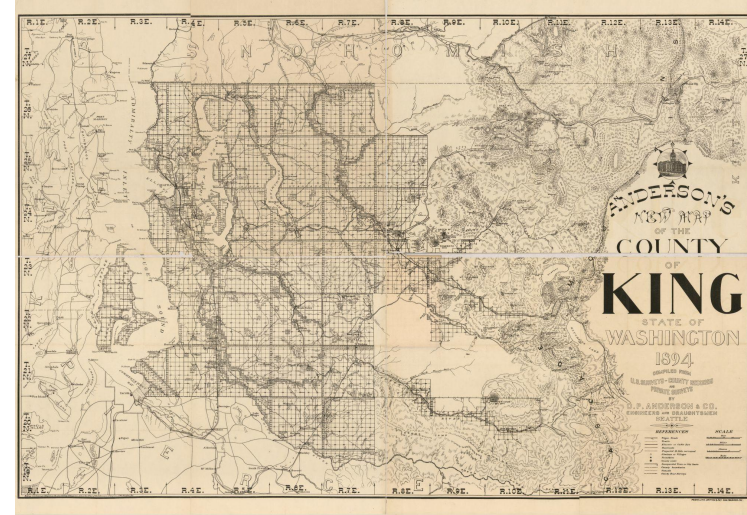


# King County Construction 301



**Howard S. Wright**  
a Balfour Beatty company

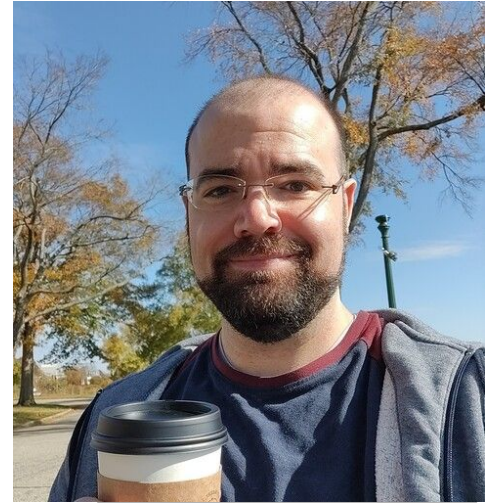
# Data Science Team



Brian Reynolds  
Data Scientist  
[Github](#)

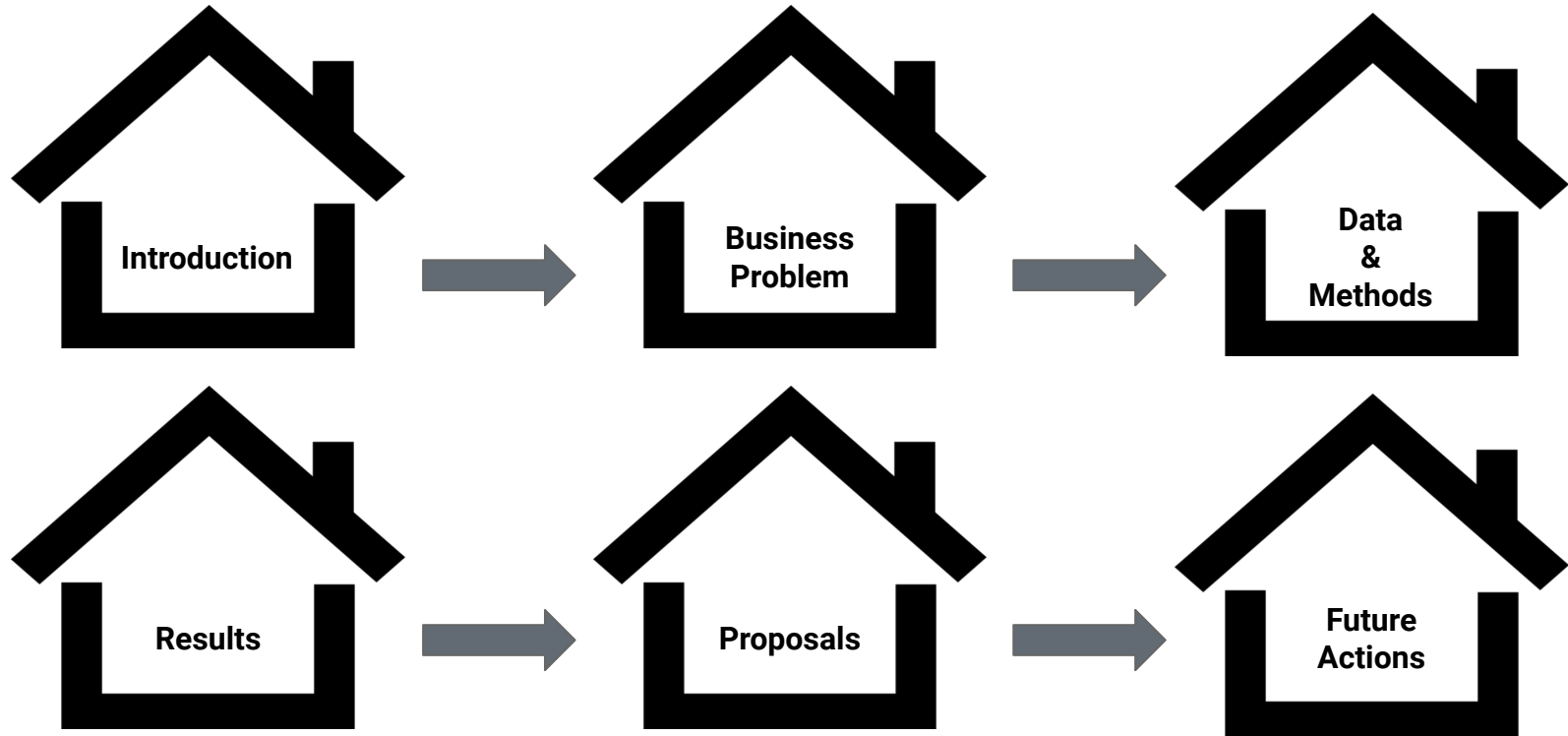


Peter Vuong  
Data Scientist  
[Github](#)



Will Norton  
Data Scientist  
[Github](#)

# Agenda



# Bottom Line Upfront

**Square Footage** ✓

**Location** ✓

**Home quality** ✓



# Business Problem



# What should HSW focus on when building homes?



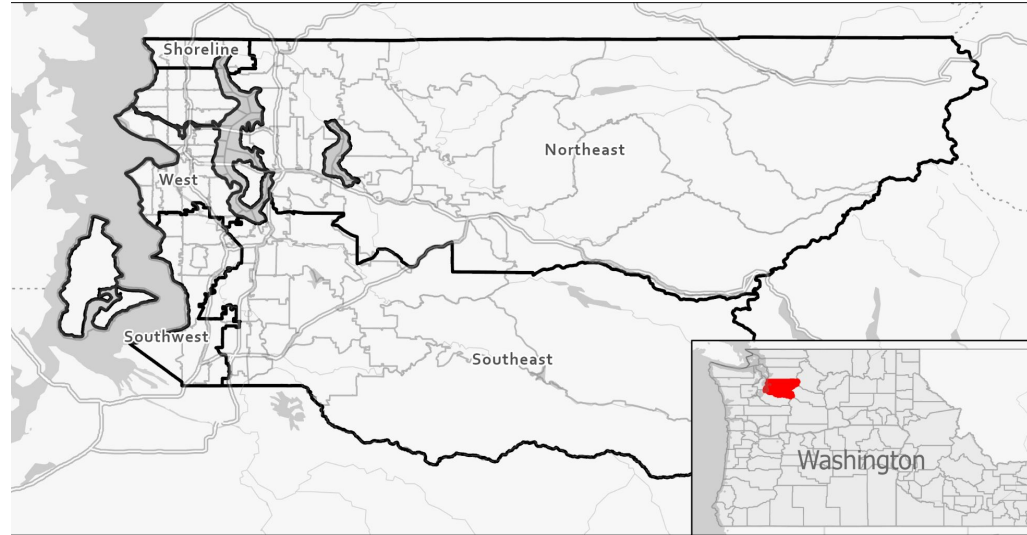
- Location?
- Beds/Baths?
- Home Quality?
- Square Footage?
  - Building Footprint
  - Total Living Space

# Data & Methods



# King County Data

- KC Housing Data, 2014-15
- King County Census Data
- Spatial analysis and modeling





# Findings



# Model Accounts for 68% of Variation in Price

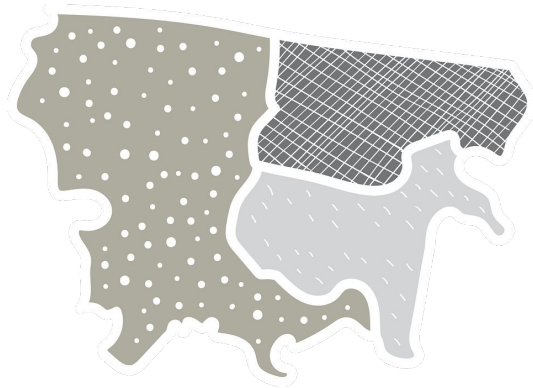
House Size



1 SQFT = \$175



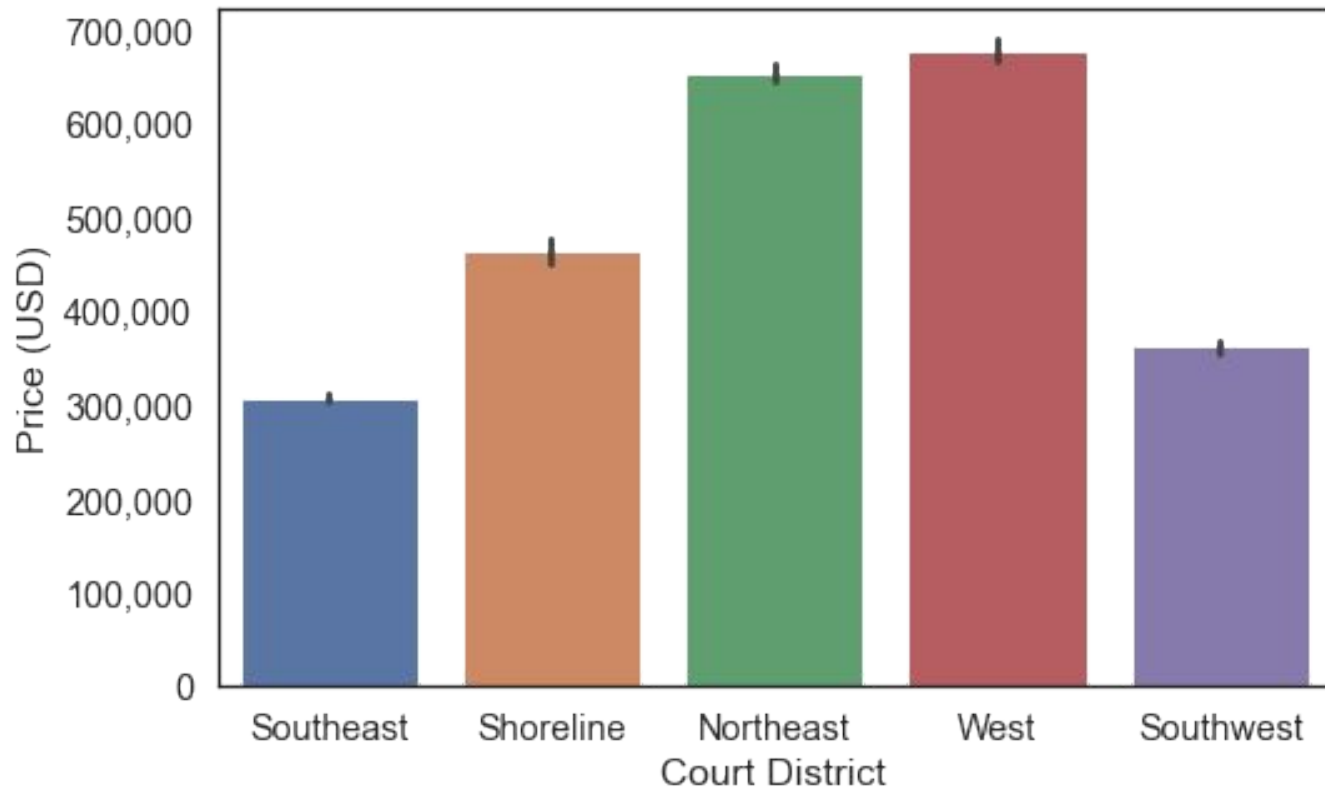
Region



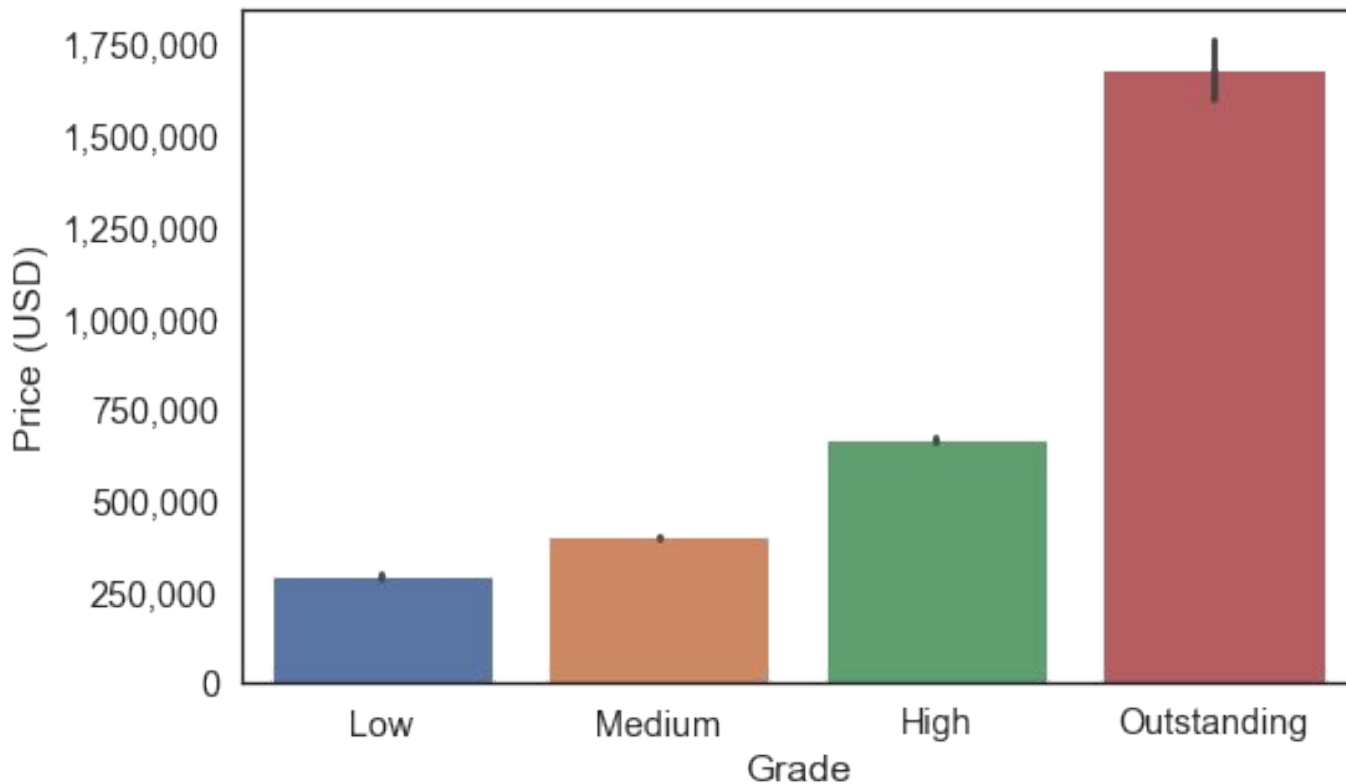
House Quality



# Average Price by Region



# Average Price by House Quality

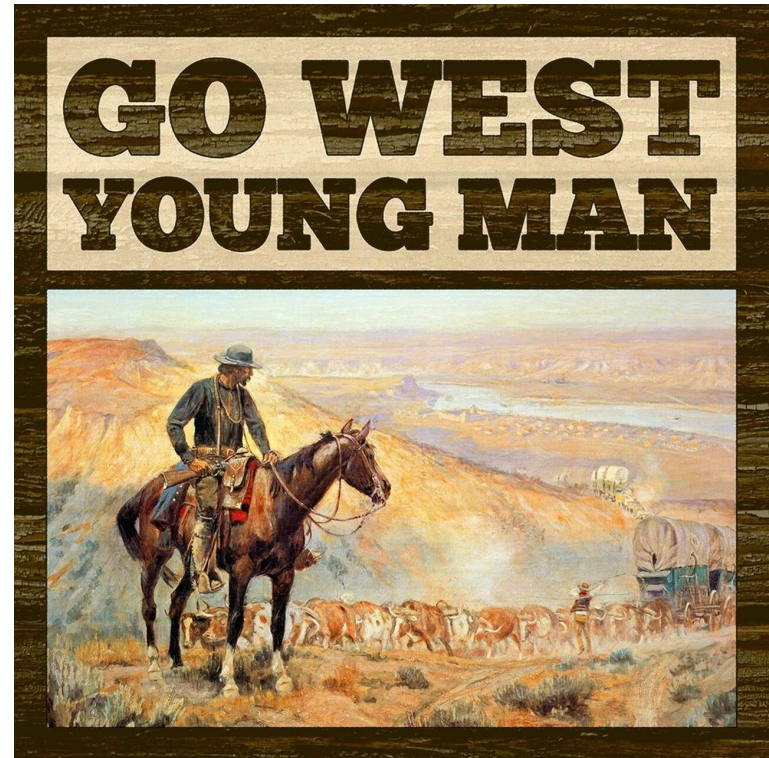


# Proposals



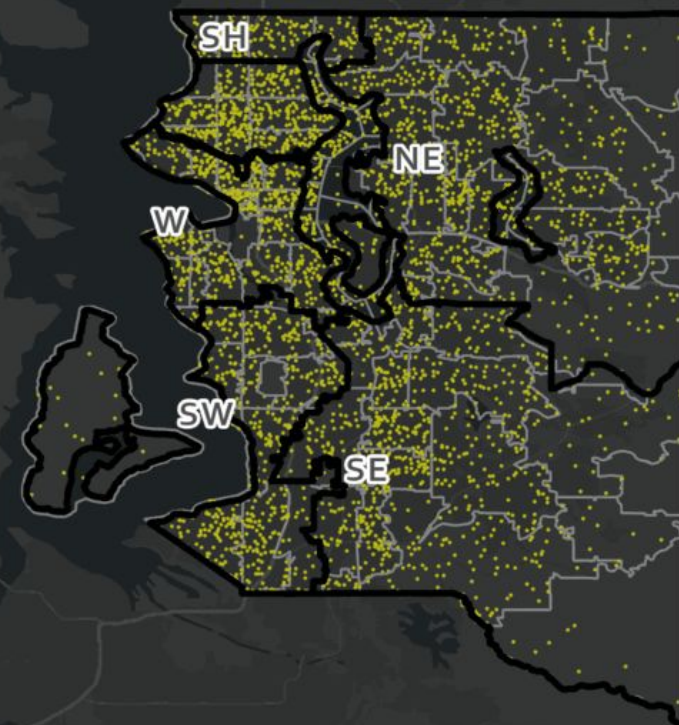
# Proposals

- Build more homes in the West
- Maximize square footage
- Maximize quality

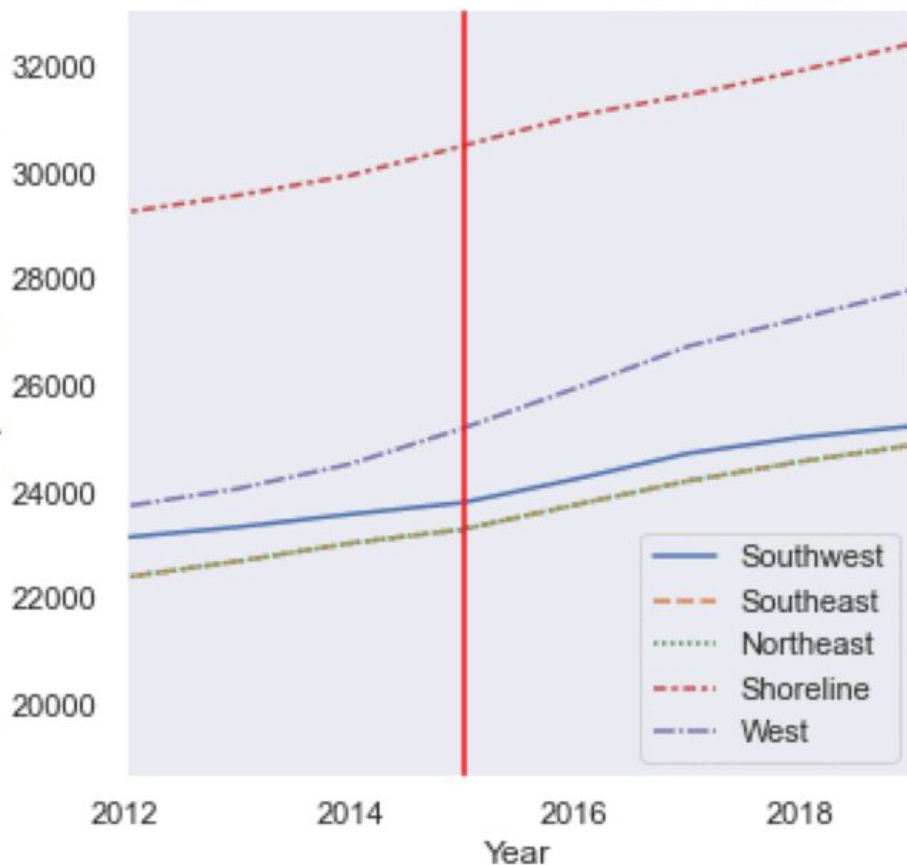


# Future Considerations

# 2015



Population Growth in King County, WA by Region



Population growth in King County, WA

1 Dot = 500 People

# Future Considerations



- Home demand by region & buyer demographics
- Eco friendly home building
- Analysis of construction costs



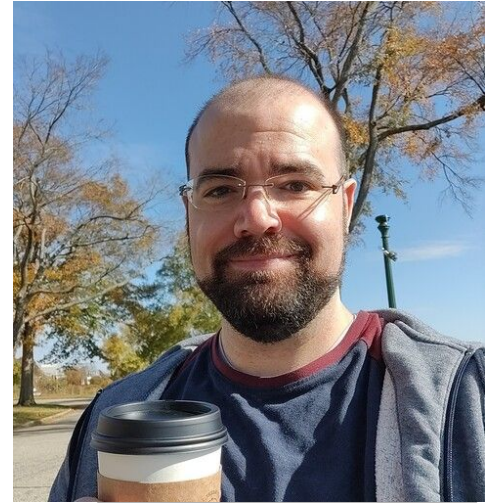
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Questions? Comments? Concerns?

# Appendix

[HSW Crane](#), Title Slide, Accessed 2/15/22

[1894 KC Map](#), Title Slide, Accessed 2/15/22

[Business Problem image](#), Accessed 2/15/22

[Housing Materials](#), Data & Methods, Accessed 2/15/22

[Wikimedia.org](#), Bottom Line Upfront Slide, Accessed 2/16/22

[Seattle House](#), Results, Accessed 2/16/22

[Cartoon Shack](#), Model, Accessed 2/17/22

[Population Growth](#), Results slide, Accessed 2/17/22

[Go West](#), Recommendations, Accessed 2/17/22

[Plant Building](#), Future Considerations, Accessed 2/17/22

# Average Price by House Size

