BUYING & SELLING FOR A GOOD CAUSE

- properties for a socially responsible investor
- a proposal by real estate data analysts MJR & TD
- september 2025



OUR CLIENT ERIN ROBINSON

- investing in poor neighborhoods
- buying & selling
- covering costs
- small profit
- socially responsible

QUESTIONS

what are good types of properties for erin to invest in? to what extent do prices, property's condition and season for buying/selling matter for erin's socially responsible purposes?



DATA

DATA SET

- king county house details & king county house sales datasets merged
- 21.420 properties listed
- covering 05/2014-05/2015
- property prices range \$78K-7.7M
- 20 original parameters



PARAMETERS used

date sold, date built, price, coordinates, condition

- HI: properties sold below median price are located further away from the city center
- H2: properties built before 1990 and in poor condition have a 10% lower median price compared to other properties

HYPOTHESIS

 H3: properties sold during the winter season have a median price at least 10% lower compared to other properties

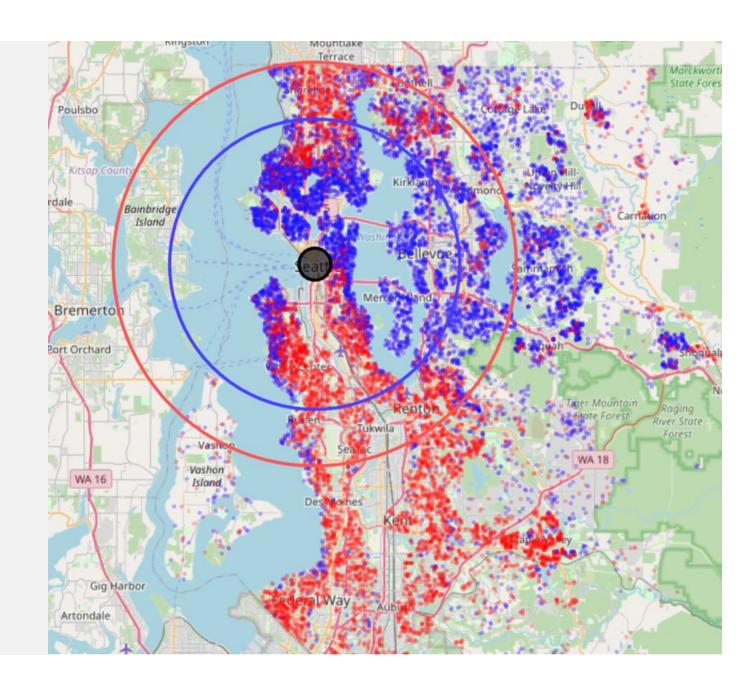
DISTANCE TO CITY CENTER

FINDING

- properties sold below median price (red dots) are typically 19.5 km away from city center (red circle)
- properties sold above median price (blue dots) are typically 14 km away from city center (blue circle)
- property price decreases as we move away from city center (r = -0.28, indicating weak correlation)

RECOMMENDATION

 inconclusive - further analysis needed to investigate whether distance makes a significant difference at all



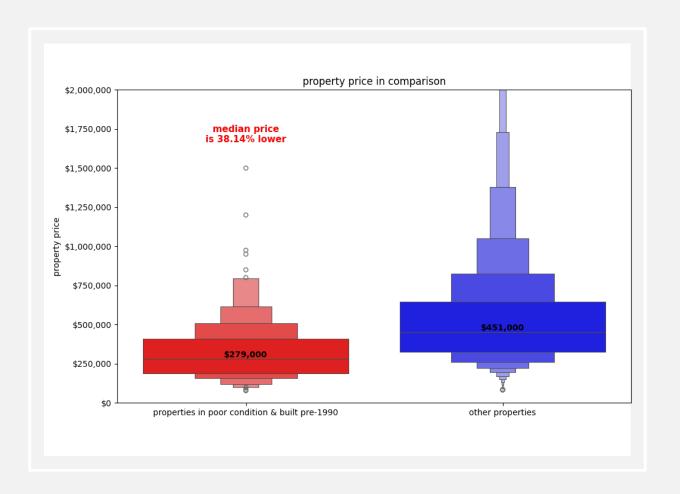
PROPERTIES IN POOR CONDITION

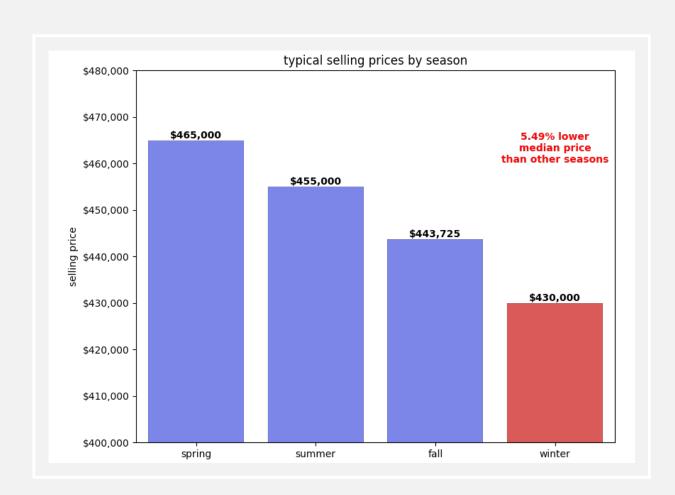
FINDING

- typical price for properties in poor condition and built pre-1990 cost below 300K
- properties built pre-1990 and in poor condition are 38% lower in price than other properties
- construction year not significant in this context (same results for properties in poor condition only)

RECOMMENDATION

 properties in poor condition regardless of construction year are suitable for socially responsible investment





WINTER SEASON

FINDING

- typical selling price for properties lowest in winter, highest in spring
- selling price for properties is 5.5%
 lower in winter than in other seasons

RECOMMENDATION

- buying properties in winter recommended
- selling properties in winter gives lowerincome buyers an opportunity to buy
- for small profit, consider selling in fall

roadmap

buy properties in poor condition

buy properties in winter

sell properties in winter / fall

distance to city center secondary

RECOMMENDATIONS
FOR A SOCIALLY
RESPONSIBLE
INVESTMENT