Discussion of The Role of Property Tax in California's Housing Crisis

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Problem

- Proposition 13
 - Cap of 2% (or CPI increase whatever lowest)
 - Reset at sell or new construction
- Potential incentives to avoid redevelopment
 - Reminiscent of Lock-in effects (Ferreira 2010)
 - Potential reduction in housing supply

This Paper

- Objective: Evaluate effects of Proposition 13 on redevelopment
 - Overall: Important question in my view

This Paper

- Objective: Evaluate effects of Proposition 13 on redevelopment
- Measurement:
 - Redevelopment defined as changed of use
 - E.g., SFH -> MFH
- Reduced Form:

 $1(Use_t = Use_{t+1}) = \alpha_t + \alpha_c + \beta TaxRate_{i,t} + \delta log(V_{i,t}) + X_{i,t-3}\kappa + e_{i,t}$

• Structural model with parameters for a profit parameter (proportion of bedrooms x price level going to rents)

Interpretation of Variables: Use

- Measurement:
 - Paper: redevelopment defined as changed of use
 - E.g., SFH -> MFH
- California Revenue and Taxation Code, Sec. 70:
 - Any addition to real property, whether land or improvements, including fixtures [...]
 - ADUs included
 - Any alteration of land or of any improvement [...] that converts the property to a different use
 - Any rehabilitation, renovation, or modernization [...]
 - Includes extending property's economic life
- Intersection with zoning

Interpretation of Variables: Use

- Measurement:
 - Paper: redevelopment defined as changed of use
 - E.g., SFH -> MFH
- Auxiliary analysis Renovations:
 - Real Capital Analytics (RCA)
 - history of renovations on the transacting property, and its location
 - Several limitations

Interpretation of Variables: TaxRate

• Reduced Form:

 $1(Use_t = Use_{t+1}) = \alpha_t + \alpha_c + \beta TaxRate_{i,t} + \delta log(V_{i,t}) + X_{i,t-3}\kappa + e_{i,t}$

- Why TaxRate?
 - Variable of interest is expected difference between old assessment and new reassessment
 - $\delta \log(V_{i,t})$ does not fully recover difference
 - Public good provision varies which affects use, land price, demand...
 - Exemptions
 - Suggestion: Use log(assessment ratio) with taxing jurisdiction-year fixed effects. Then recover effective taxation.

Empirical Strategy

• Regress:

$$1(Use_t = Use_{t+1}) = \alpha_t + \alpha_c + \beta TaxRate_{i,t} + \delta log(V_{i,t}) + X_{i,t-3}\kappa + e_{i,t}$$

• Instrument:

$$\widehat{TaxRate}_{i,t} = \psi_t + \psi_c + \delta \log(\text{Prior Local Prices}_{i,s(i,t)}) + X_{i,t}\rho + \mu_{i,t}$$

 Identifying assumption: Probability of redevelopment only affected by tax rate

Challenges

- Identifying assumption: Probability of redevelopment only affected by tax rate
- Land Values:
 - log(Prior Local Prices_{i,s(i,t)}) capture relative differences in neighborhood valuations
 - Amenities, etc.
 - Cost side: High land values relative to construction => incentives to build multifamily
 - Revenue side: High land values where housing supply is low relative to demand => demand for multifamily

Zoning

- Exclusionary zoning regulations:
 - minimum lot sizes
 - restricted multifamily development
- Building restrictions affect pricing
 - increase local house prices
 - Cheshire and Sheppard (2002); Glaeser and Gyourko (2003); Hilberand Vermeulen (2016)
- Large racial and wealth differences
 - Lower priced homes correlate with financial constraints to afford switching cost.
- Zoning differences within census tract
 - Block group analysis

Interpretation of Variables: Market Value

- Hedonic regressions using only structural characteristics
 - neighborhood attributes important for redevelopment
 - Structural x time x neighborhood
- Add comparison with transaction level data?

Conclusion

- Important question for our understanding of effective property tax implementation
- Empirical refinements might help to make paper more clear or convincing