

Supporting Materials for
“State-Building through Public Land Disposal? An
Application of Matrix Completion Methods for
Counterfactual Prediction”

Table of contents

1	Exploratory data analysis	1
2	Simulations	4
3	Causal mechanisms	6

1 Exploratory data analysis

Table 1: Definitions and data sources of variables.

Theme	Variable	Coverage	Definition	Source
Farms	Farm size	1860-1950 (decennial)	Log average farm size	Haines (2010)
	Farm value	1850-1950 (decennial)	Log average value of farmland and buildings per acre (\$)	Haines (2010)
	Land inequality	1860-1950 (decennial)	Gini coefficient based on distribution of farm sizes, adjusted for the share of propertyless farmers	Ibid.
State Capacity	Revenues	1783-1982	Log per-capita state government total revenue (1982\$)	Sylla et al. (1993, 1995a,b); Haines (2010) (total free pop. data from Haines (2010))
	Expenditures	Ibid.	Log per-capita state government total expenditure (1982\$)	Ibid.
Homesteads	Homestead entries	1862-2016	Log per-capita total number of patents issued under the HSA	U.S. BLM (https://glorecords.blm.gov) (total free pop. data from Haines (2010))
Railroads	Railroad access	1830 - 1911	Total miles of operational railroad track per sq mi	Constructed from Atack (2013)

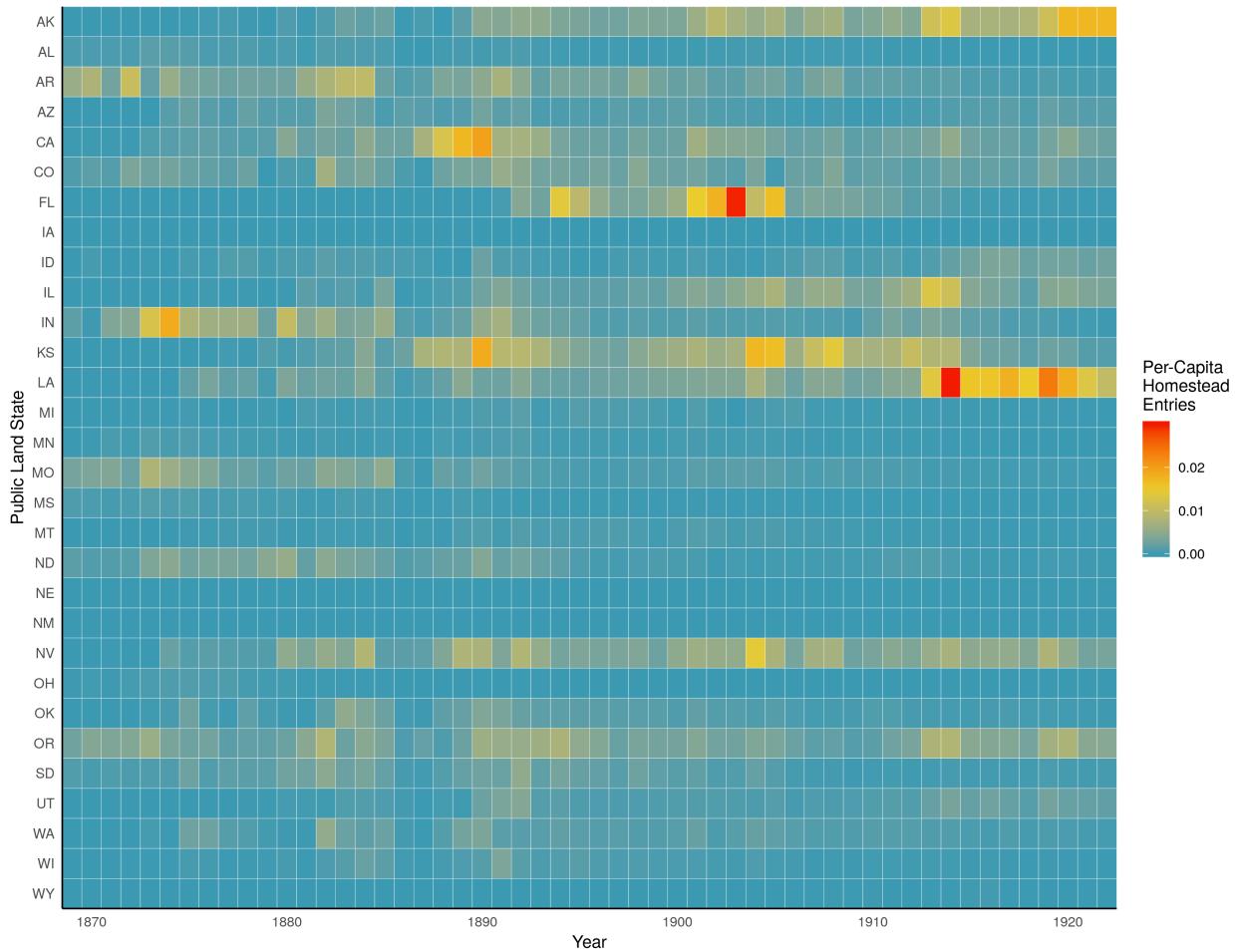
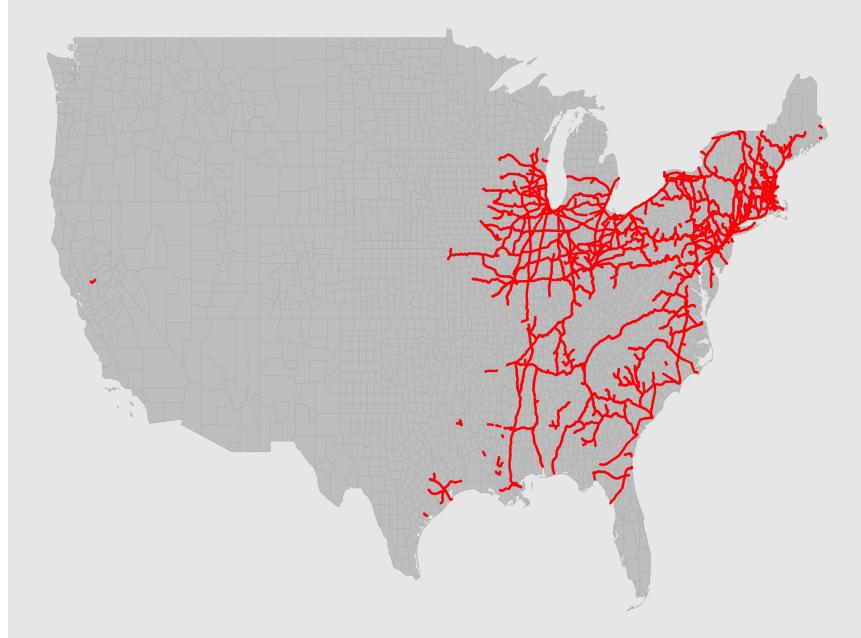


Figure 1: Per-capita statewide sum of homestead entries in state i and year t , 1869-1922.

1862 (1911 county borders)



1911

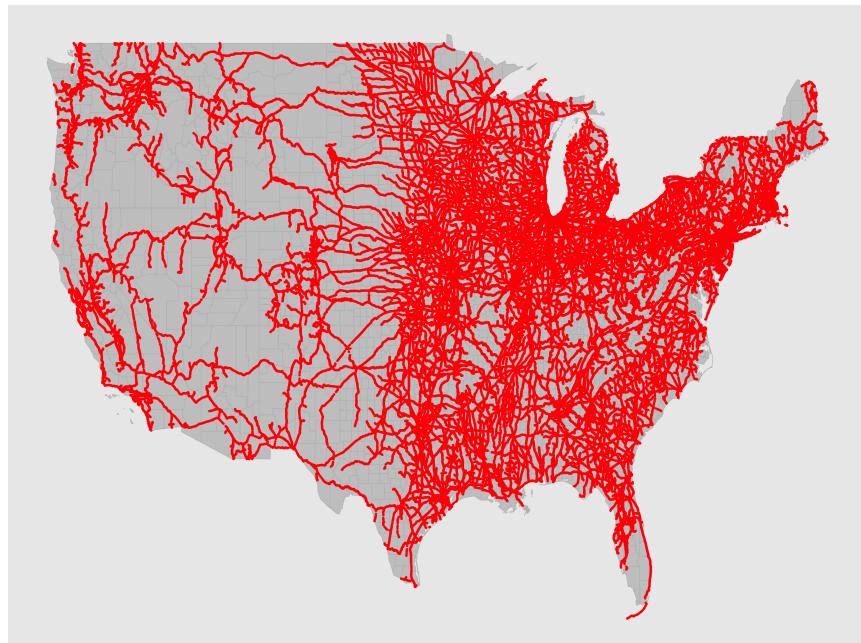


Figure 2: Railroad lines in 1862 and 1911, overlaid on 1911 county borders. Railroad data from Atack (2013) and county border data from Long (1995).

2 Simulations

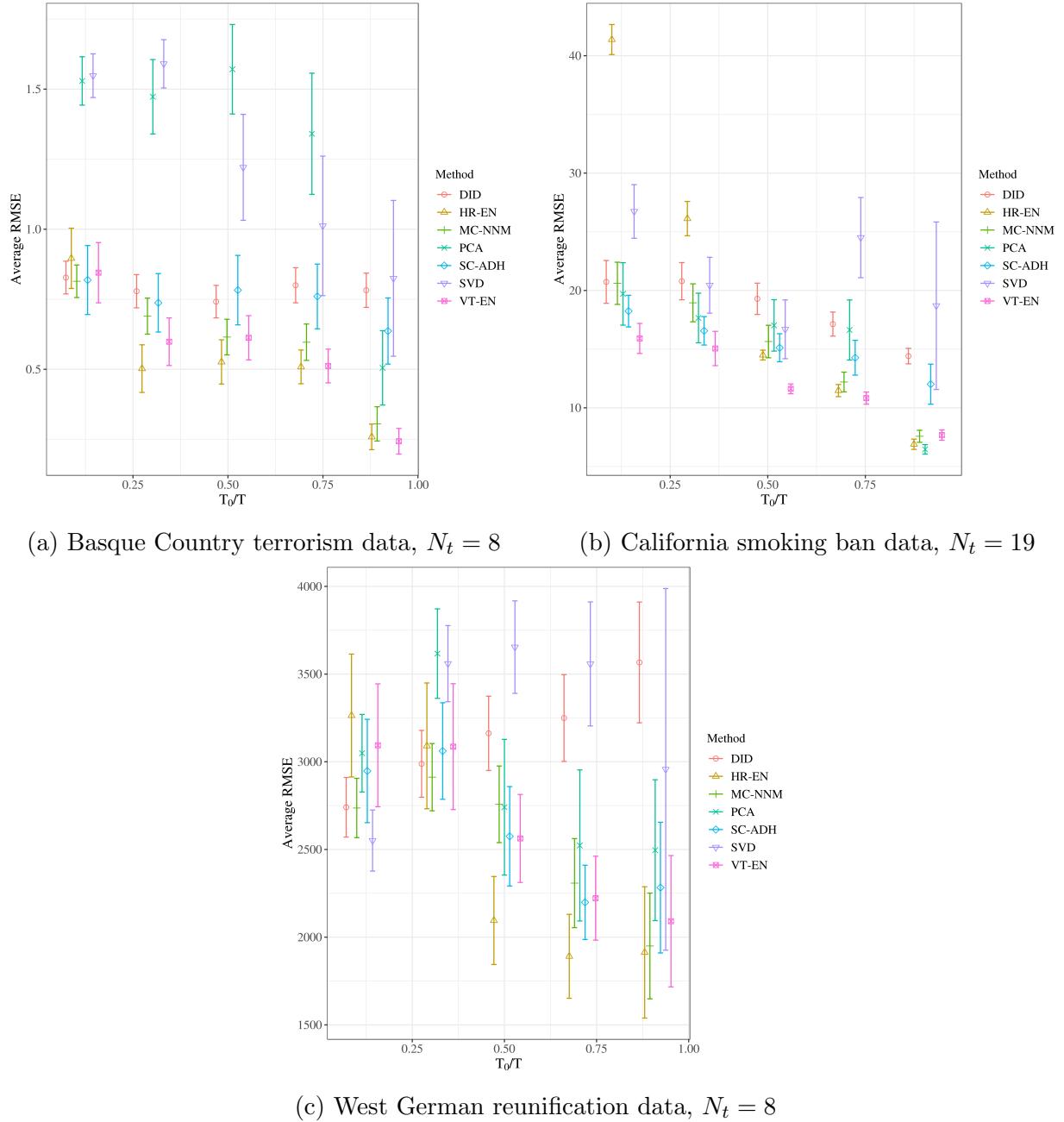


Figure 3: Placebo tests under simultaneous treatment adoption. See footnotes to Fig. 1.

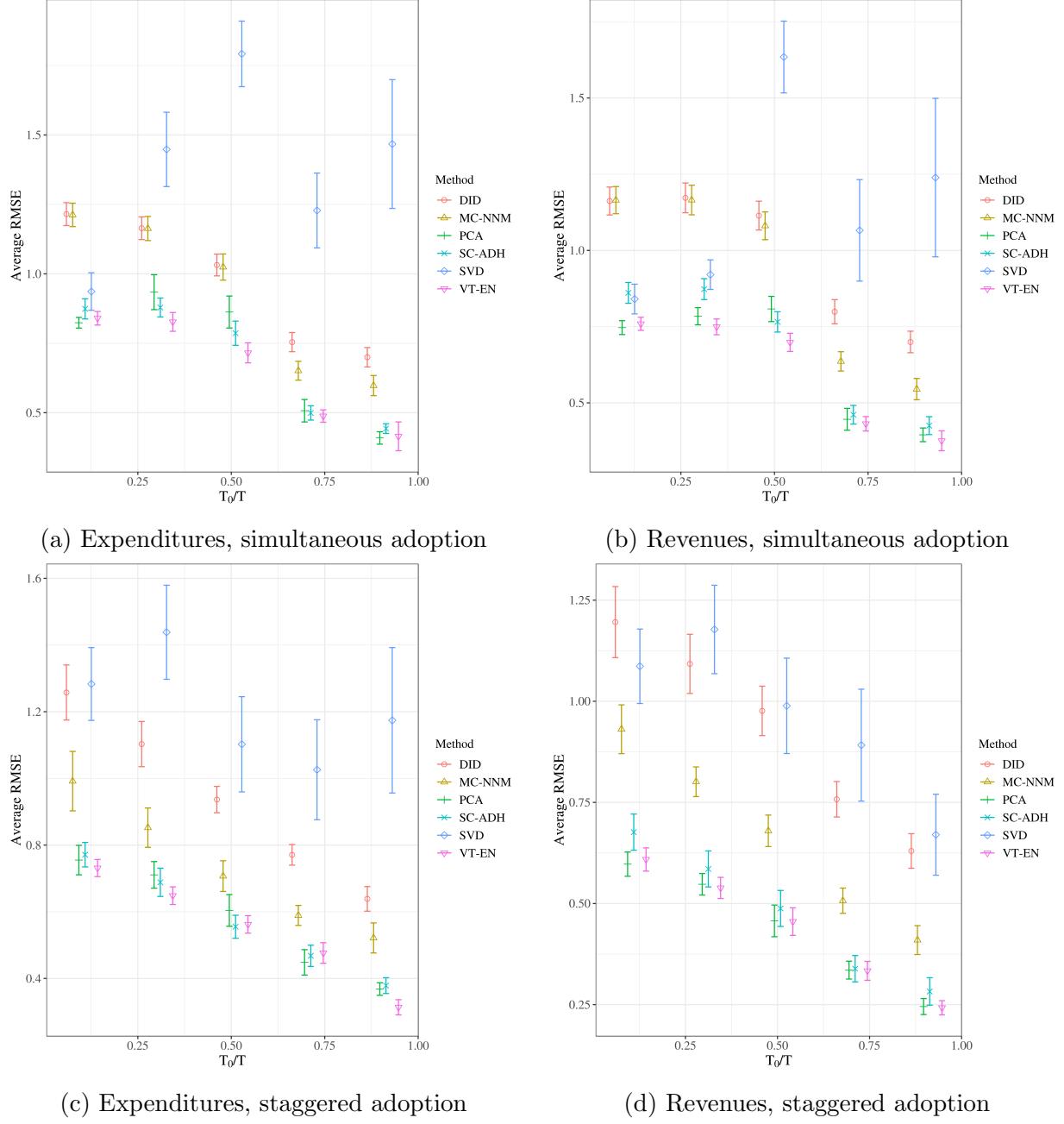


Figure 4: Placebo tests under simultaneous and staggered treatment adoption, with $N_t = 9$. See footnotes to Fig. 3.

3 Causal mechanisms

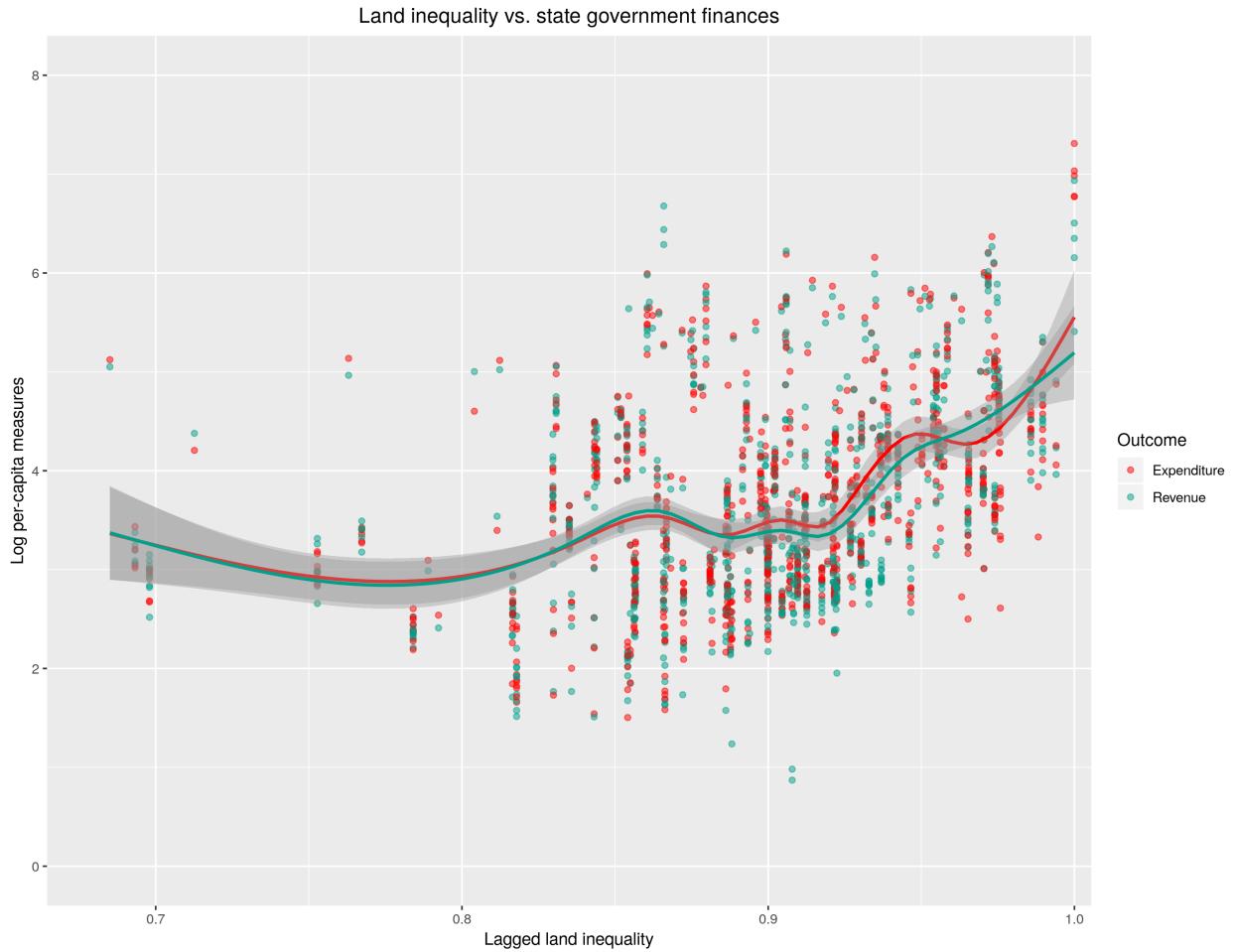


Figure 5: Land inequality (lagged by 10 years) vs. log per-capita revenue and expenditure, 1860-1950. Each point is a state-year observation. Lines represent generalized additive model (GAM) fits to the data and shaded regions represent corresponding 95% confidence intervals.

References

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