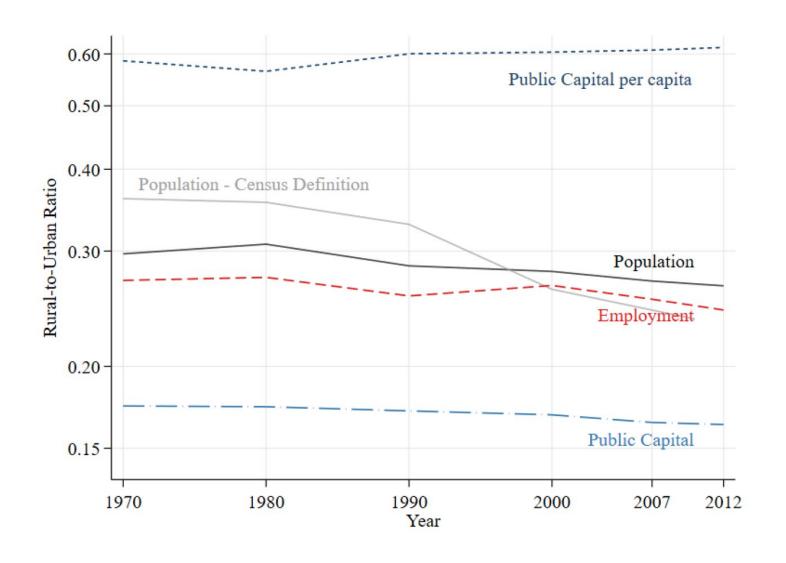
The Value of Rural and Urban Public Infrastructure

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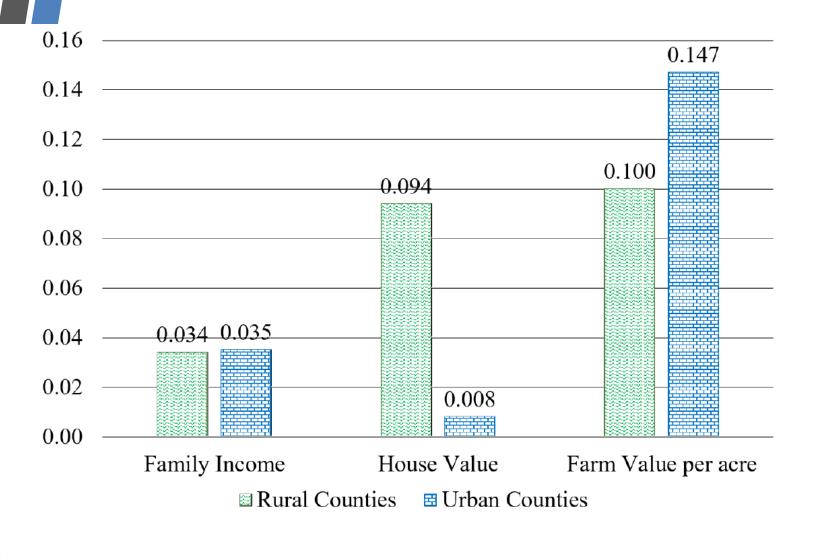
What is the value of infrastructure?

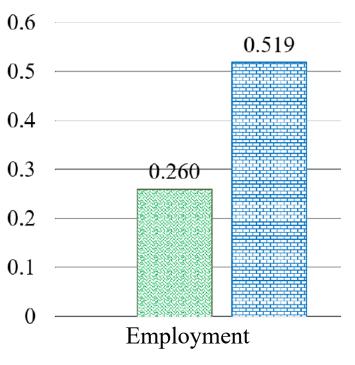
- How do public investments impact local communities?
 - employment, incomes, housing, land values...
- What is the return on investment in all its forms?
 - Productivity (3 Kinds): Agricultural, other tradables, non-tradables
 - Quality of Life: non-market, does not show up as income
- Who benefits from these improvements? Landowners? Residents?
- How do results in rural areas differ from urban areas?



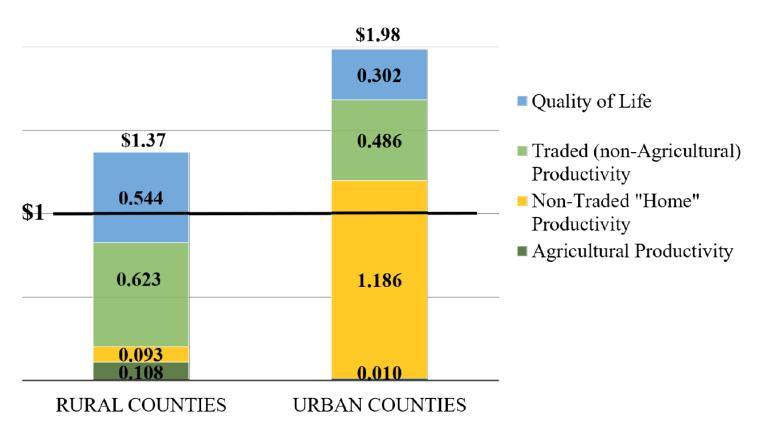
How do economic quantities change as public capital stocks rise and fall?

- County Area Finance (Census) data from 1957 to 2012 in 5-year frequency
 - Public capital stock measured by adding investments, and depreceating them over time
- Estimates depend on relationship observed within counties (fixed effects)
 - Also control for demographic changes and state-level tax and fiscal changes
 - Account for spatial correlation in potential economic shocks
- Estimates valid if investment largely driven by politics and non-economic factors
 - > Overstated to the degree that investment anticipates future growth
 - Understated if infrastructure benefits people outside county
 - Might also may merely shift activity away



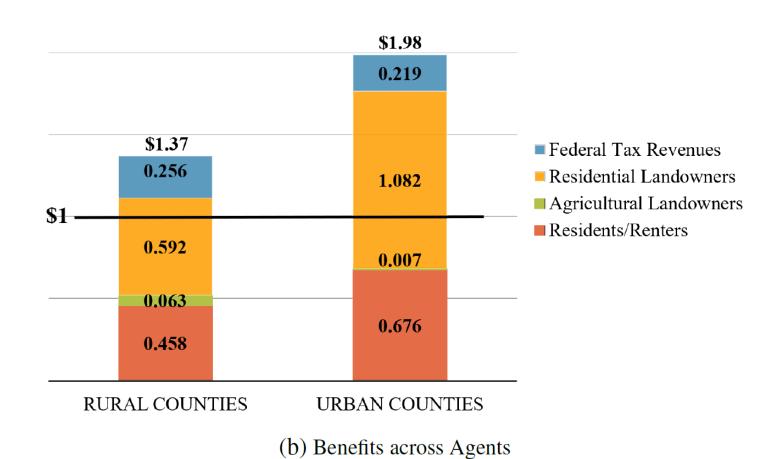


The average dollar invested in public infrastructure creates



(a) Values across Households and Firms

The average dollar invested in public infrastructure creates



Conclusion

- \square Infrastructure investments appear to payoff in both rural and urban areas
 - Return to local residents may be higher in urban areas, but spillovers may differ
- Returns vary in form
 - In rural areas, infrastructure improves quality of life first, jobs second
 - In urban areas, it makes housing much more accessible, lowers cost, but also boosts jobs and quality of life
- Benefits boost property values substantially
 - > But benefits exceed increases in housing costs, helping those who only rent, too
 - Some payback in higher federal tax receipts