# Municipal Finance and Labor Mobility by Pengjie Gao and Xiaodan Gao 14<sup>th</sup> Municipal Finance Conference Washington July 23, 2025

Discussion by
Ron Giammarino
University of British Columbia

# Broad Motivation: Provision of public goods

- Samuelson(1954): "No market type solution exists to determine the level of expenditures on *public goods*" Tiebout 1956 (emphasis added)
- Tiebout: "... the consumer voter moves to that community whose local government best satisfies his set of preferences."



## Fundamental Question- research landscape: How does Mobility Affect Debt Financing of Public Goods?

- Illustration: Detroit's 2013 bankruptcy filing:
  - Population/tax base fell by 26% from 2000
  - Tax revenues down 20% in Five years, Tax rate highest in Michigan
  - 78,000 vacant buildings
  - Police down 40%, crime at 5 times national average, 40% of streetlights did not work!

#### **Questions:**

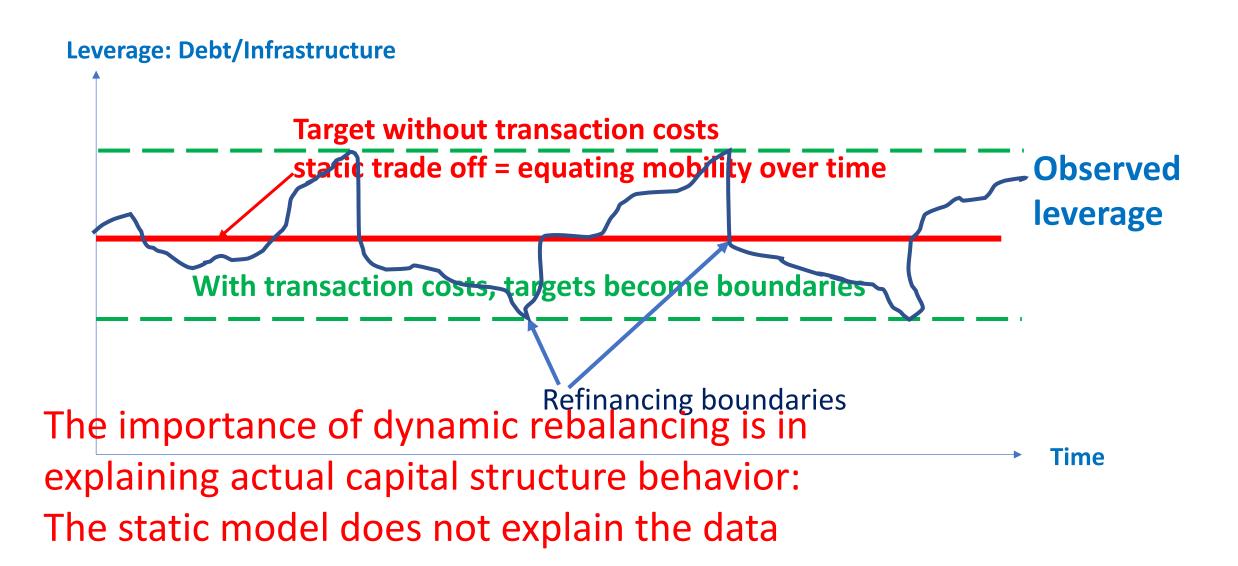
- 1. Did Detroit Borrow Too Much Ex Ante?
- 2. Does Potential Mobility explain degree of Debt Financing?
- 3. Is mobility responsible for dead weight financial distress costs?
- 4. Why were the costs not avoided prior to 2013?
- 5. How should Detroit respond to loss of population?

#### Where does this paper fit?

# Suggestion: this is a dynamic capital structure study.

- Main Contribution is Empirical
- Main question:
  - How much Should Detroit have borrowed
  - How does that depend on population mobility
  - How should Detroit respond after, while population moves

#### Dynamic Capital Structure Models:



# Gao and Gao: A Muni Dynamic Capital Structure Paper –Focused on mobility

- Most extensive data collection to date.
- Application to a Dynamic Capital structure model of a municipality
- Discovers that 'labor mobility' theoretically and empirically can explain the use of debt finance:
  - The more mobile the labor force, the greater the use of Debt to avoid taxes

Excellent first step! But several concerns to address

## Areas for improvement

- Shorten and Simplify
- Clarify the motivation and purpose
- Is this a test of the underlying tradeoff or Muni's response
  - E.g. Detroit set in 2009 seems to be a focus on response
  - Writing suggests both
- Why Labor Mobility? Tiebout is about population preferences
- Transplanting private corporation capital structure to municipal requires more work
  - Hennesey and Whited is private corp infinitely lived corporation.
  - This paper is about transient population and Public Goods

### Areas for Improvement:

- The model focuses on transfers to and from citizens that **are not taxes** Citizens move because of taxes but not because of transfers –Why?
  - Detroit prescription is difficult to understand
- Main empirical measures need more motivation
  - Leverage = Debt/personal income,
    - Short term cash flow, not long term sustainability
    - Cash management not capital structure
  - Taxes = mill rate ??
- Risky Debt and Bankruptcy Law

#### Conclusions

- This is an important topic
- Early days for Empirical and Theoretical Work important start
- Main Suggestion: Clarify purpose, simplify analysis, develop measures that best match the analysis.
- I look forward to future versions and ultimate publication