

# THE PURSUIT OF FAIR AND EFFICIENT PRICING

OCTOBER 23, 2024 | SAN FRANCISCO, CALIFORNIA

# SESSION ONE

Contributing Factors and Potential Solutions to New Issuance Pricing Inequities

### JUSTIN MARLOWE, PhD.

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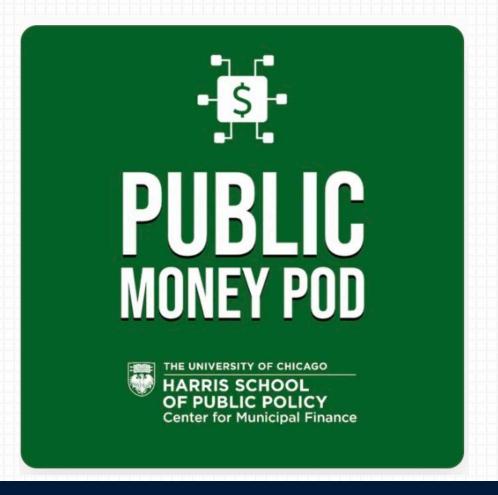
# A Commercial...



www.munifinance.uchicago.edu



# Another Commercial...







# And One More Commercial...

Look for....

# Public Debt Management: Strategy and Evidence

Forthcoming - Cambridge University Press



# Questions for Today

- What determines the prices on new issue municipal bonds?
- What is "fair pricing" for issuers?
- What are pricing inequities, and what explains them?
- How can issuers address those inequities?





# Key Takeaways

- The pricing of new issue municipal bonds is more reliable, transparent and competitive than ever.
- Smaller issuers enjoy advantages and disadvantages in new issue pricing.
- Smaller issuers can address those disadvantages/inequities - at least partially - through better disclosure, investor relations, and debt management practices.



# What Determines New Issue Municipal Prices?



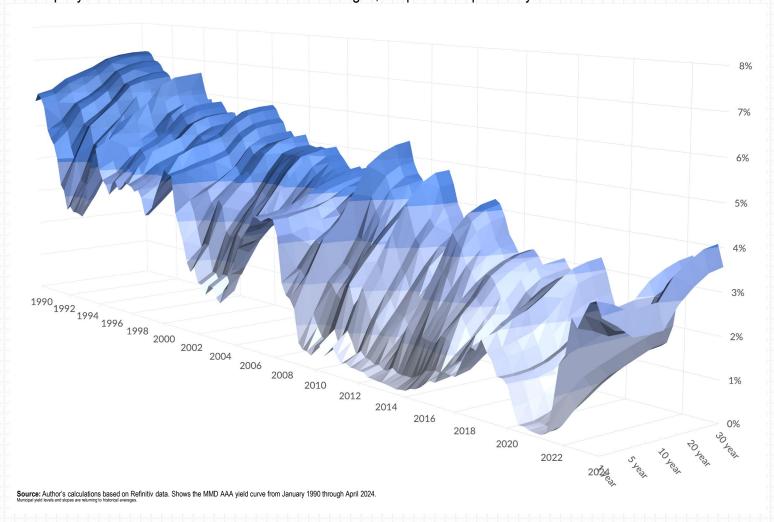
### The Investor's "Three Factor" Framework for Municipals

- Tax Risk Will the interest payments remain tax-exempt?
   Will they remain attractive, relative to taxables?
- Credit Risk Will the issuer repay the bonds on time and in full?
- Liquidity Risk If I need to sell these bonds, can I find a buyer?
  - Segmentation Pool of potential buyers is limited and specialized
  - Supply and demand factors i.e. "technicals" are dynamic



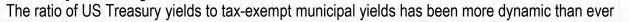
#### **Back on Track?**

Municipal yield levels have returned to historical averages, despite a comparatively flat curve





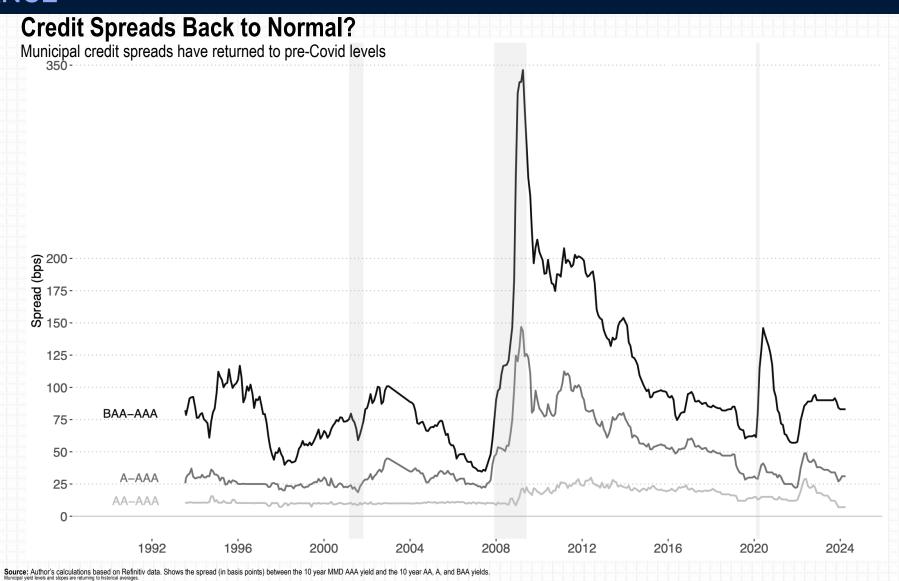




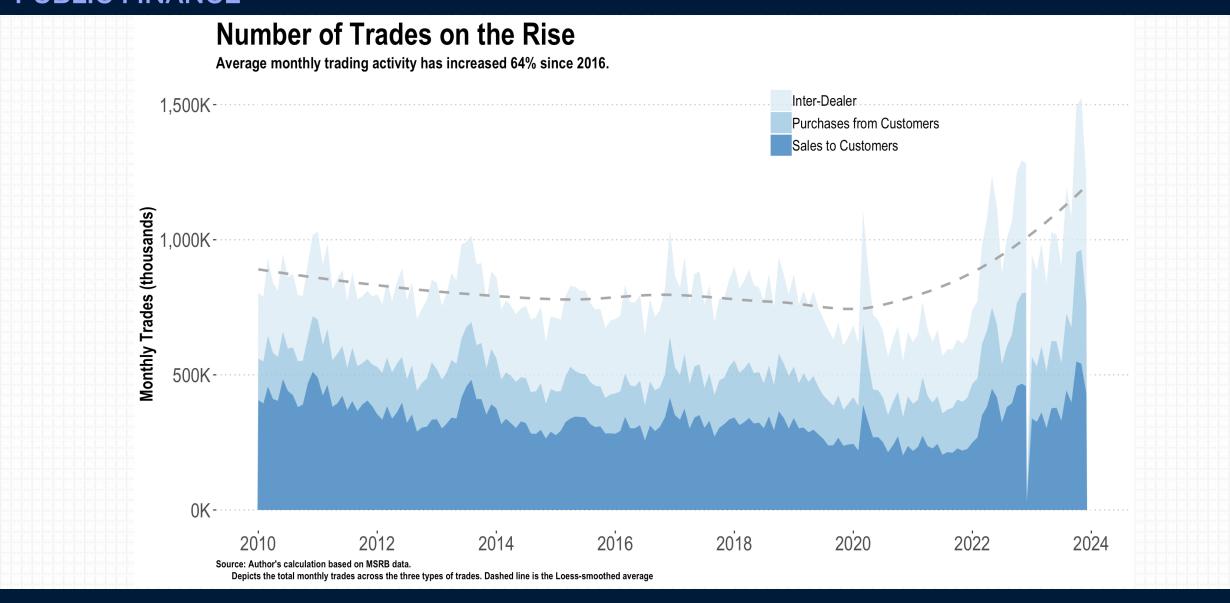


Source: Author's calculations based on Refinitiv data.

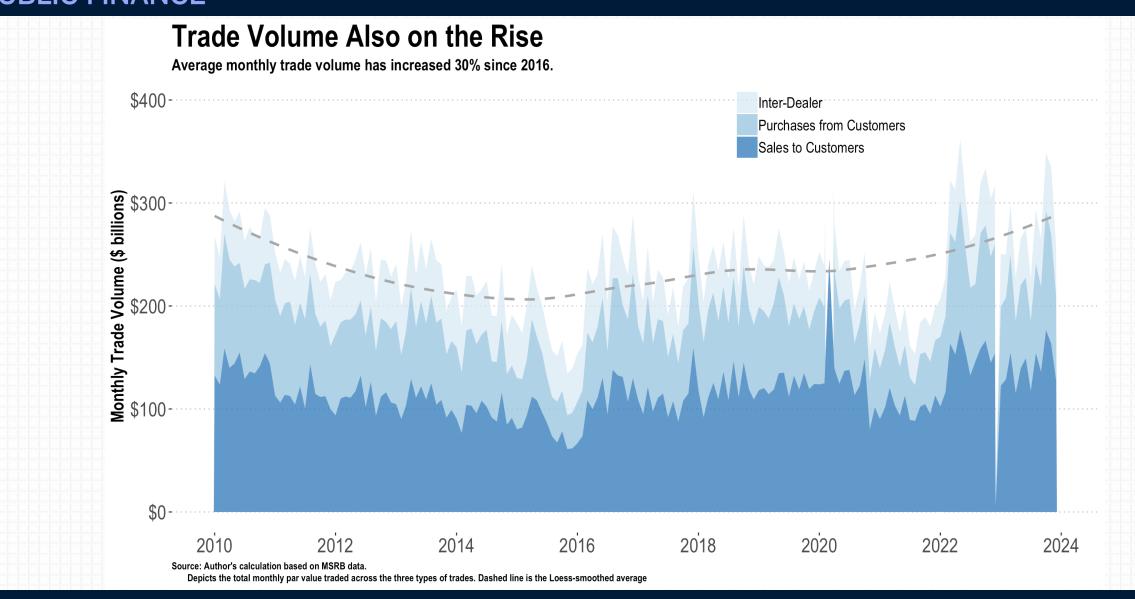




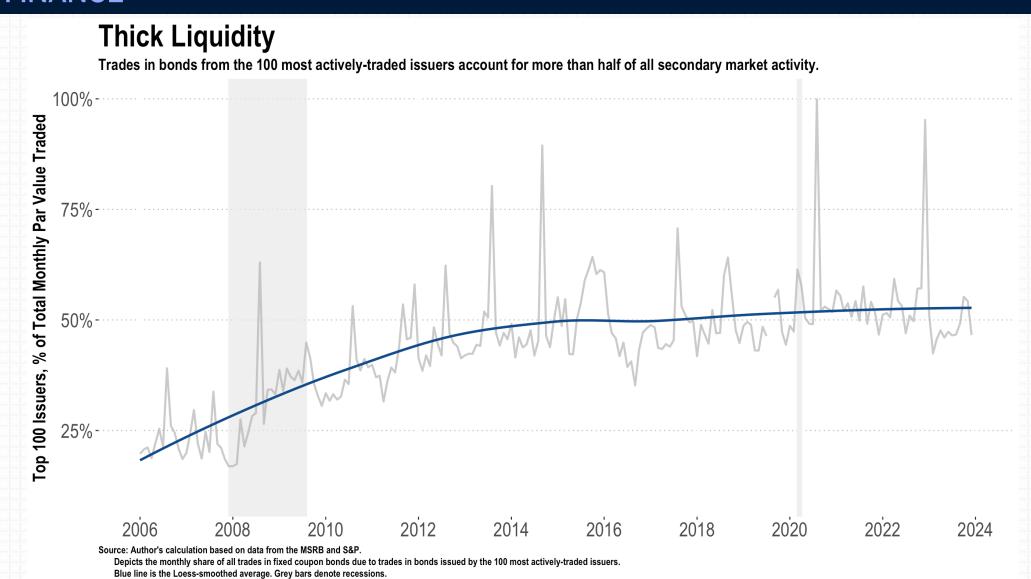




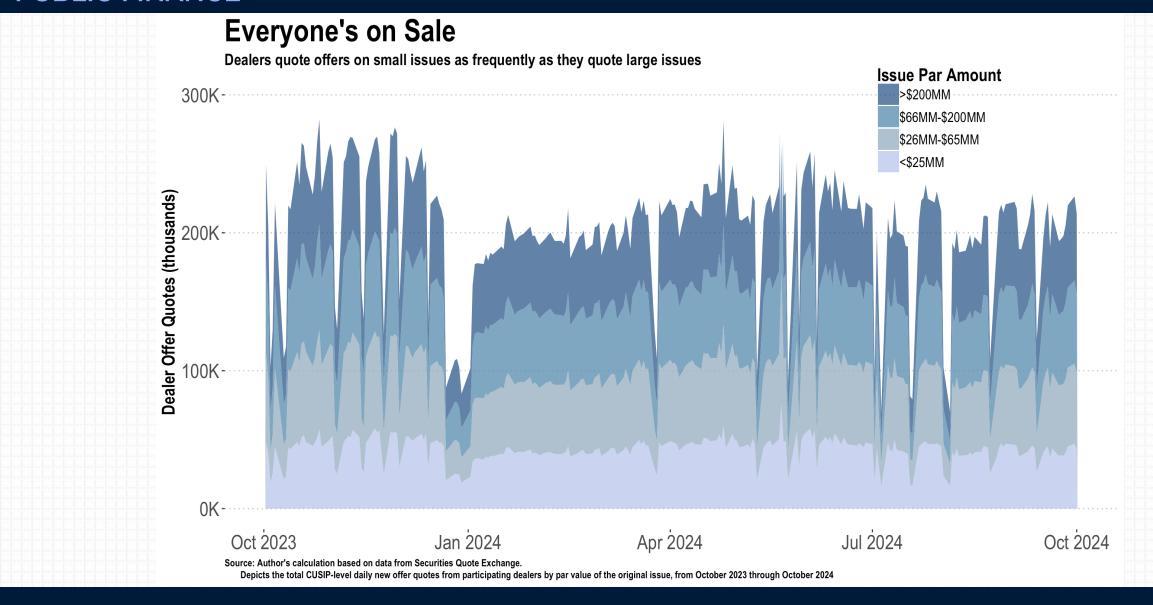




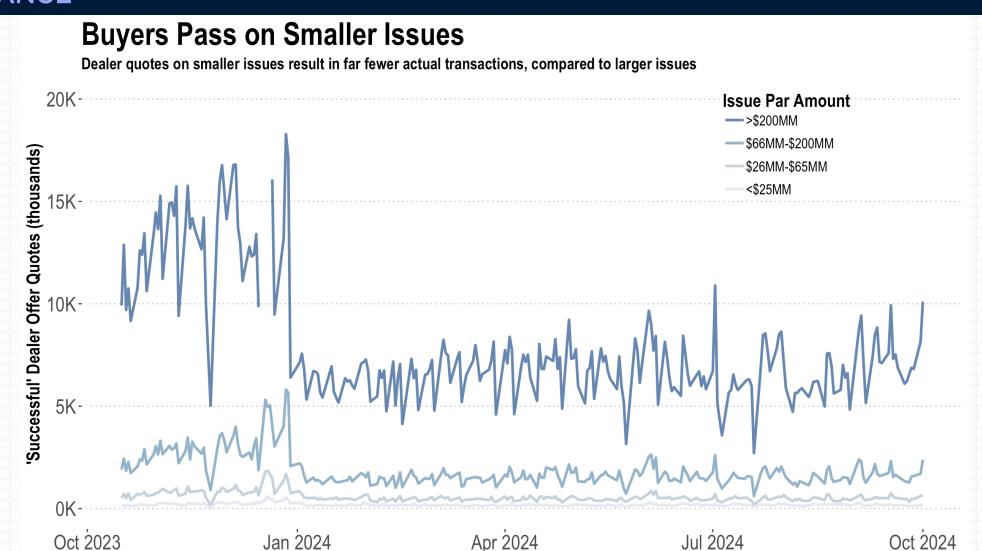








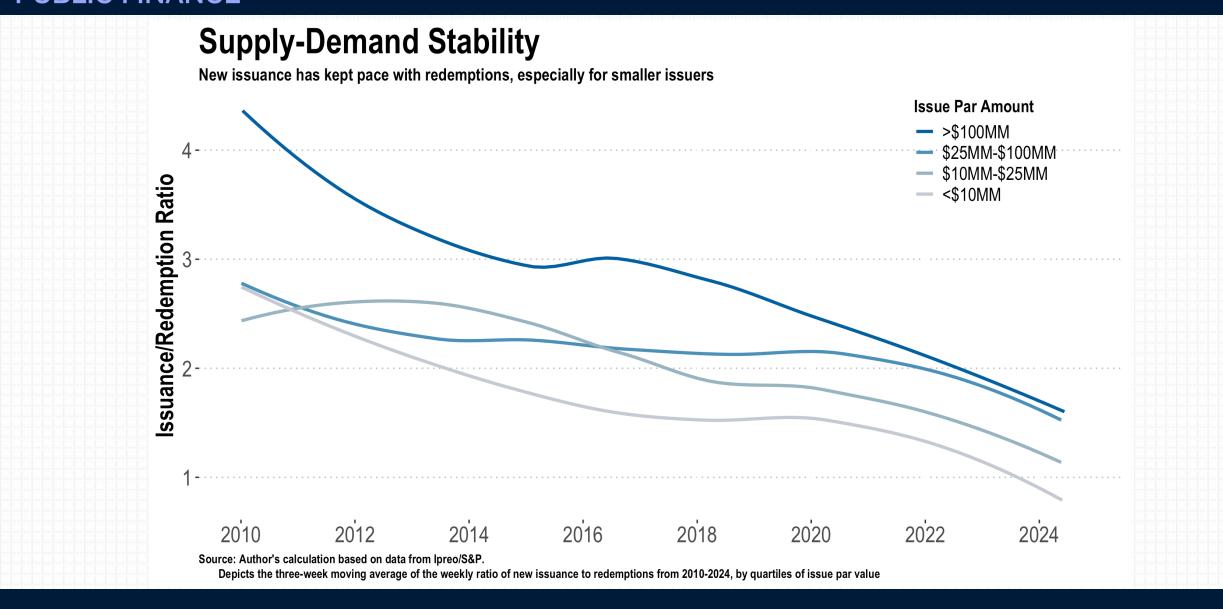




Depicts the daily total secondary market trades that originated as offer quotes, by par value of the original issue, from October 2023 through October 2024

Source: Author's calculation based on data from Securities Quote Exchange and the Municipal Securities Rulemaking Board.

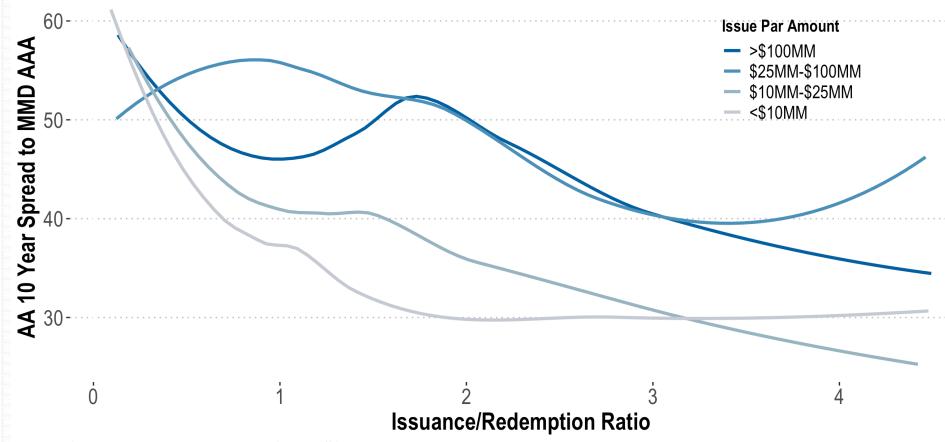








When new issuance exceeds redemptions, larger issues often price at higher spreads, but smaller issues don't

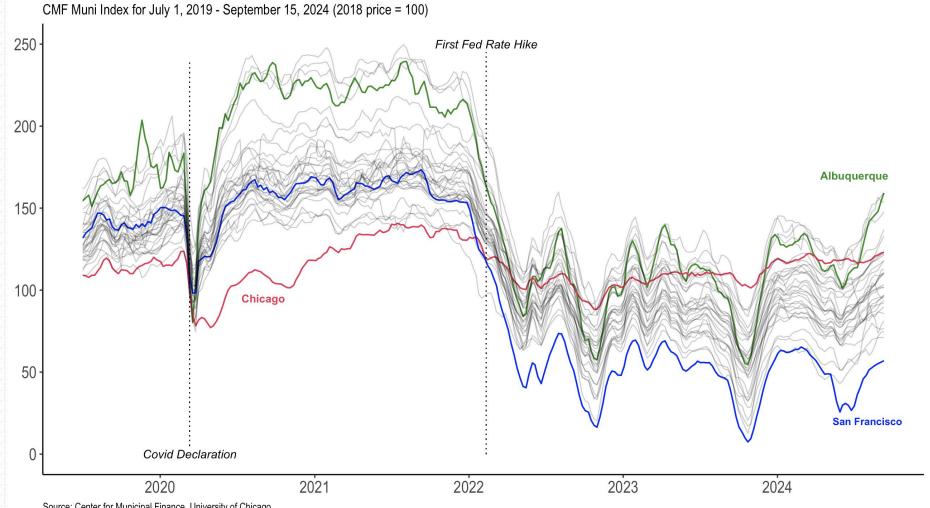


Source: Author's calculation based on data from Ipreo/S&P.

Depicts the three-week moving average spread to the MMD AAA for newly-issued 10 year AA bonds (y axis) and the three-week moving average of the weekly ratio of new issuance to redemptions (x axis) from 2010-2024, by quartiles of issue par value







Source: Center for Municipal Finance, University of Chicago Index Based on GO Bond Secondary Market Prices for 33 Large US Cities munifinance.uchicago.edu, jmarlowe@uchicago.edu



# What is Fair Pricing?



# How to Measure Fair Pricing

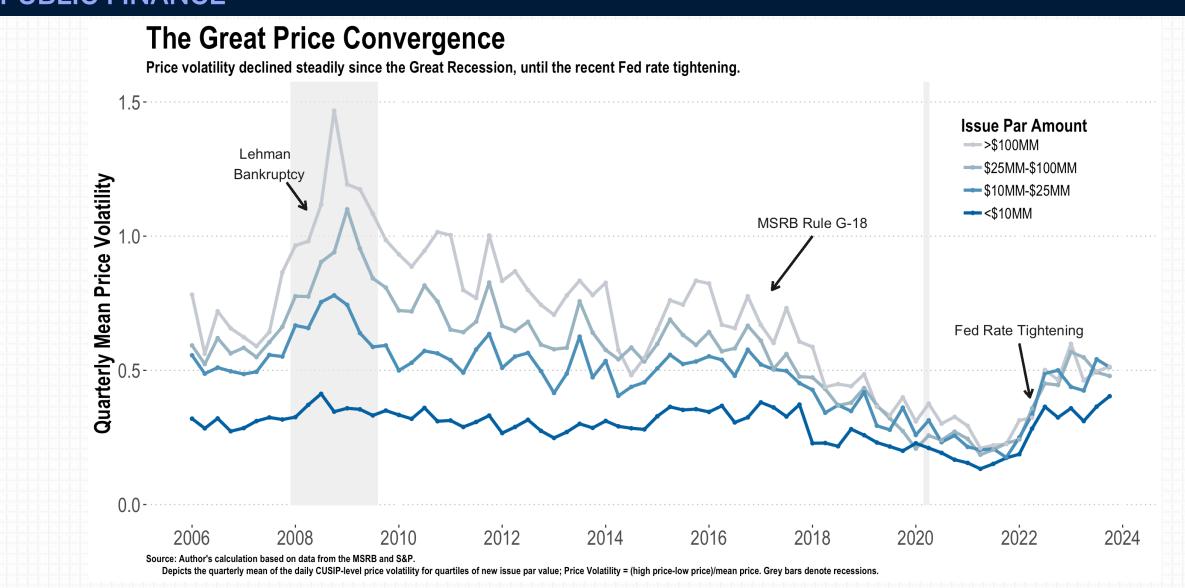
- Price Volatility Does the same bond trade at different contemporaneous prices?
- Price Evolution Does a bond's price increase immediately after issuance?
- Transaction Costs How much do issuers pay to sell bonds?



# Why Should Issuers Care?

- **Price Volatility** Investor disagreement about pricing typically means higher yields.
- Price Evolution Underpricing at issue means "money left on the table" for issuers.
- Transaction Costs Higher underwriting spreads and other transaction costs increase overall borrowing costs.

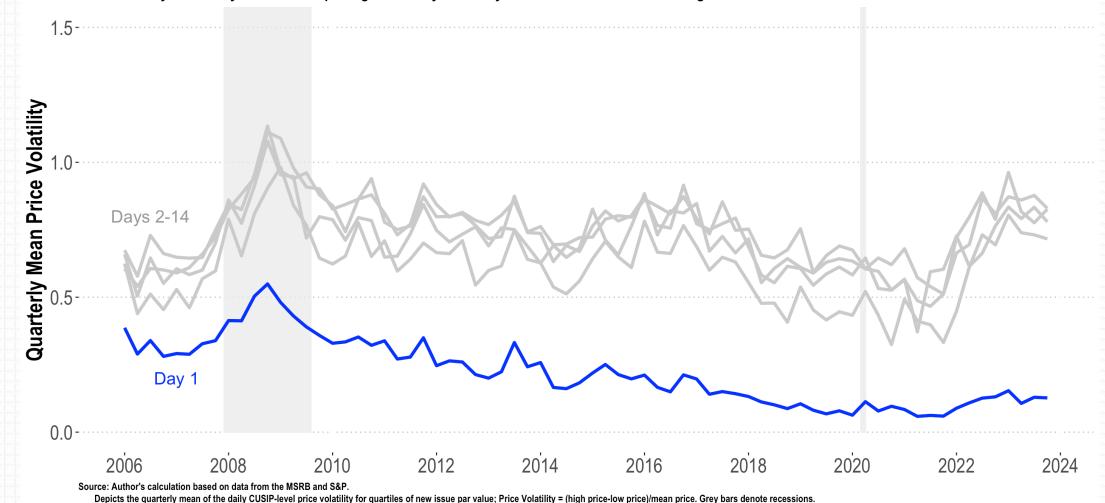




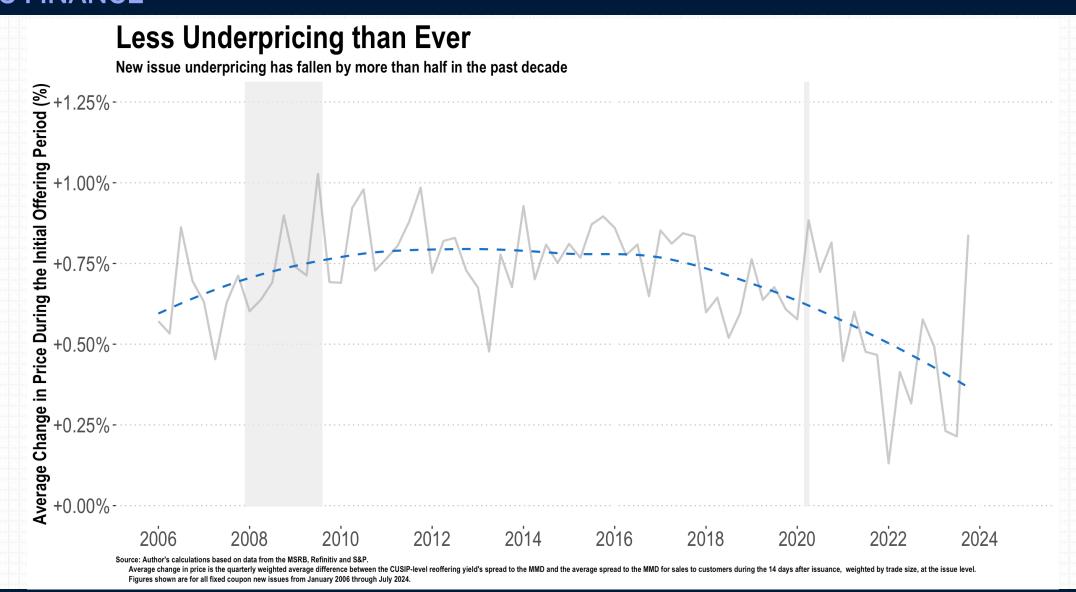




Price volatility on the day of new issue pricing is less any other day in the first two weeks of trading.



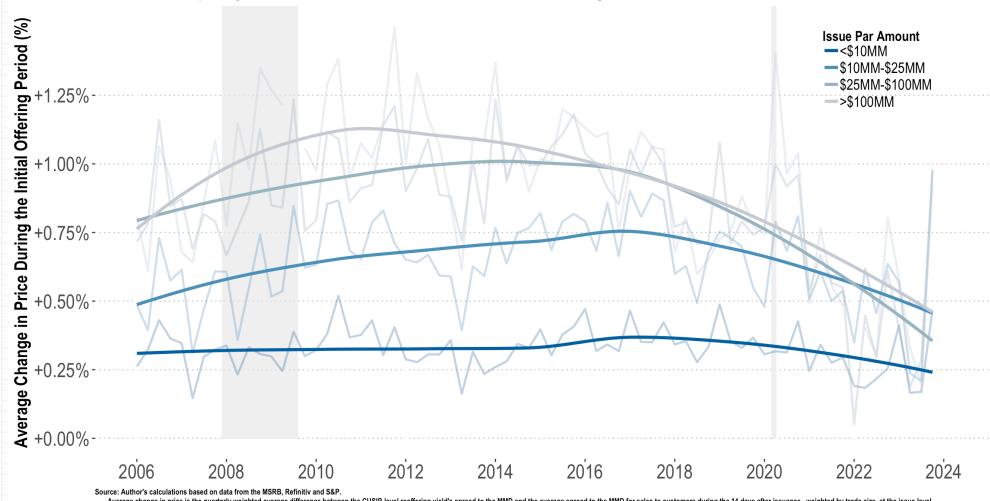






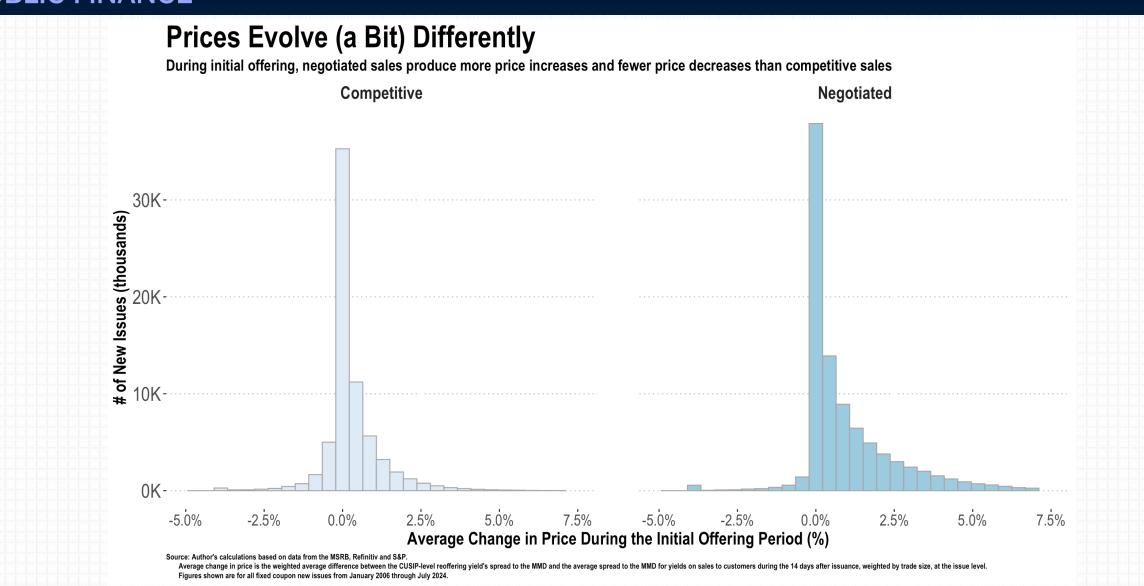


New issue underpricing has decreased over time, and remains much lower among smaller issuers.

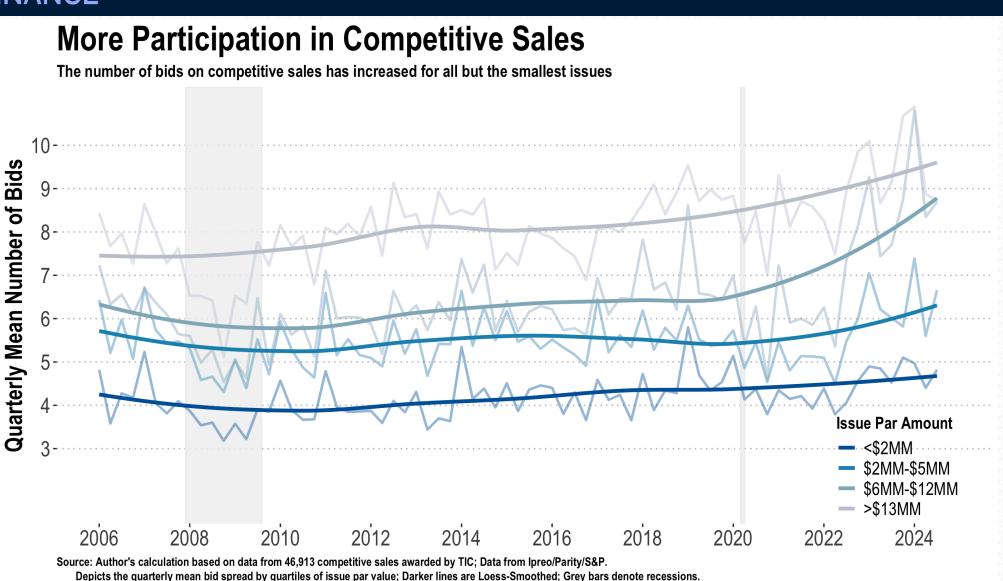


Average change in price is the quarterly weighted average difference between the CUSIP-level reoffering yield's spread to the MMD and the average spread to the MMD for sales to customers during the 14 days after issuance, weighted by trade size, at the issue level for the customers during the 14 days after issuance, weighted by trade size, at the issue level for the customers during the 14 days after issuance, weighted by trade size, at the issue level for the customers during the 14 days after issuance, weighted by trade size, at the issue level for the customers during the 14 days after issuance, weighted by trade size, at the issue level for the customers during the 14 days after issuance, weighted by trade size, at the issue level for the customers during the 14 days after issuance, weighted by trade size, at the issue level for the customers during the 14 days after issuance, weighted by trade size, at the issue level for the customers during the 14 days after issuance, weighted by trade size, at the issue level for the customers during the 14 days after issuance, weighted by trade size, at the issue level for the customers during the 14 days after issuance, weighted by trade size, at the issue level for the customers during the 14 days after issuance, weighted by trade size, at the issue level for the customers during the 14 days after issuance, weighted by trade size, at the issue level for the customers during the 14 days after issuance at the

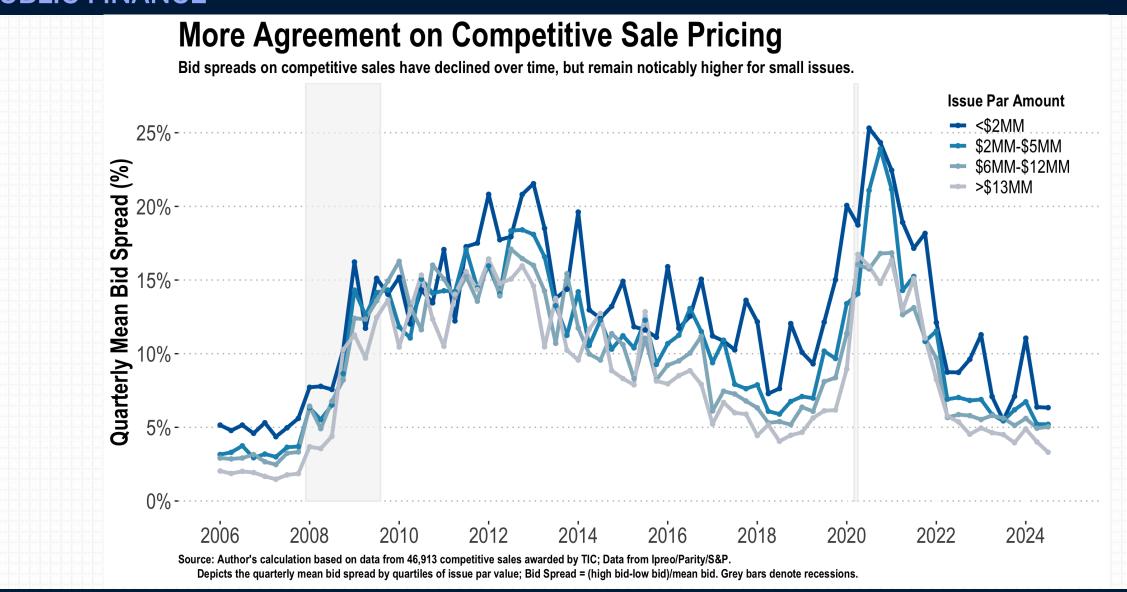




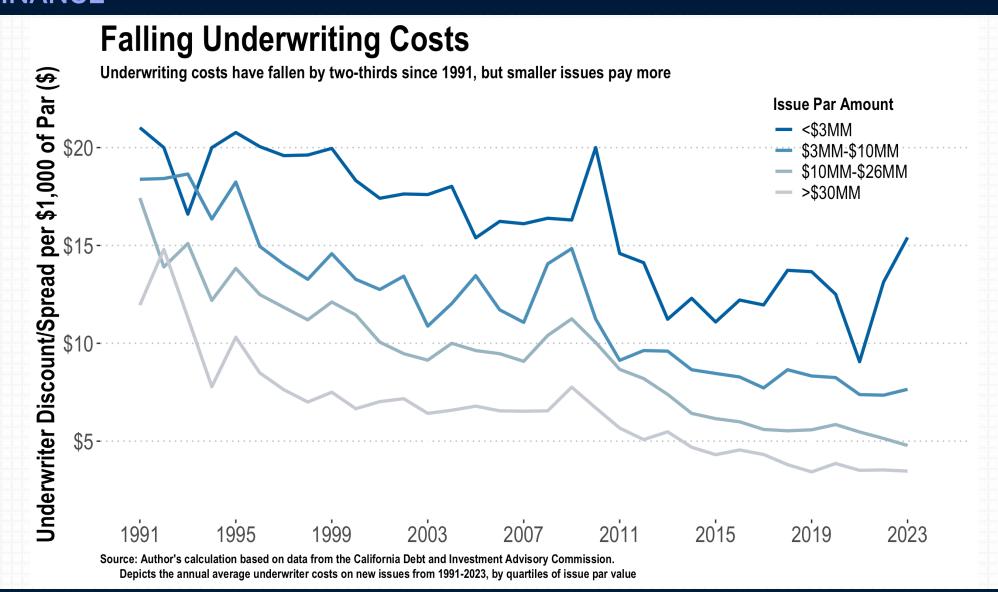














# To Summarize:

- Today's new issue municipals price in a market that is more liquid, competitive, and transparent than ever
- Smaller issues/issuers benefit from less underpricing, less price volatility, and a stable pool of buyers
- Smaller issues/issuers have several disadvantages, including less liquidity, less participation in competitive sales, and higher transaction costs



# How Can Issuers Respond?



## What Does Research Tell Us?

- Financial Disclosure Timeliness Long delays can increase new issue spreads by 10-20 bps
- Financial Disclosure Complexity Complex language can add 7-10 bps
- Underwriter and Advisor Selection Optimal mix of stability and change can reduce spreads by 20-30 bps
- Investor Relations Customized websites, digital road shows, other tactics. Anecdotal evidence supports.
- Debt Portfolio Management Optimal mix of duration, debt service average life, etc. can reduce spreads 5-10 bps

# QUESTIONS?

### JUSTIN MARLOWE, PhD.

Research Professor, Harris School of Public Policy Director, Center for Municipal Finance University of Chicago





# Additional Resources

- Johnson, C. L., Kioko, S. N., and Wang, J. Q. (2010). State Government Debt Management: The Forgotten Tool in the Financial Manager's Triage Bag. Municipal Finance Journal, 31(1):21 40.
- Farrell, M., Murphy, D., Painter, M., and Zhang, G. (2023). The Complexity Yield Puzzle: A Textual Analysis of Municipal Bond Disclosures. SSRN Electronic Journal.
- Rich, K. T., Roberts, B. L., and Zhang, J. X. (2021). Linguistic tone of management discussion and analysis disclosures and the municipal debt market. Journal of Public Budgeting, Accounting & Financial Management, 33(4):427–446.
- Edmonds, C. T., Edmonds, J. E., Vermeer, B. Y., and Vermeer, T. E. (2017). Does timeliness of financial information matter in the governmental sector? *Journal of Accounting and Public Policy*, 36(2):163–176.
- Moldogaziev, T. T. and Luby, M. J. (2016). Too Close for Comfort: Does the Intensity of Municipal Advisor and Underwriter Relationship Impact Borrowing Costs? Public Budgeting & Finance, 36(3):69–93.



### Additional Resources (cont.)

- Ang, A., Bhansali, V., and Xing, Y. (2014). The Muni Bond Spread: Credit, Liquidity, and Tax. SSRN Electronic Journal.
- Griffin, J. M., Hirschey, N., and Kruger, S. (2023). Do Municipal Bond Dealers Give Their Customers "Fair and Reasonable" Pricing? *Journal of Finance*, 78(2):887–934.
- Green, R. C., Hollifield, B., and Schurhoff, N. (2007). Financial Intermediation and the Costs of Trading in an Opaque Market. Review of Financial Studies, 20(2):275–314.
- Li, D. and Schurhoff, N. (2019). Dealer Networks. Journal of Finance, 74(1):91–144.
- Schultz, P. (2012). The market for new issues of municipal bonds: The roles of transparency and limited access to retail investors. *Journal of Financial Economics*, 106(3):492–512.

### SESSION TWO

Expectations of the Financing Team to Provide Equitable Pricing Outcomes

### DAVE SANCHEZ

Director, Office of Municipal Securities U.S. Securities and Exchange Commission



# 15-MINUTE BREAKK

### SESSION THREE

### Achieving a Level Pricing Playing Field









**NIKOLAI SKLAROFF** 

Capital Finance Director San Francisco Public Utilities Commission

**DAVID ANDERSEN** 

Managing Director,
Municipal Negotiated &
Competitive Underwriting
BofA Securities

**DARREN HODGE** 

Managing Director PFM Financial Advisors

**DAVID LEIFER** 

Senior Managing Director
KNN Public Finance

FERNANDO LOPEZ

Managing Director, Fixed Income Division & Head of Municipal Underwriting Loop Capital Markets

### THE UNDERWRITER'S PERSPECTIVE



#### **DAVID (DAVE) ANDERSEN**

Managing Director,
Municipal Negotiated
& Competitive Underwriting
BofA Securities

#### FERNANDO LOPEZ

Managing Director, Fixed Income Division & Head of Municipal Underwriting Loop Capital Markets



### THE MUNICIPAL ADVISOR'S PERSPECTIVE



DARREN HODGE

Managing Director

PFM Financial Advisors

DAVID LEIFER
Senior Managing Director
KNN Public Finance



### THE ISSUER'S PERSPECTIVE

### NIKOLAI SKLAROFF

Capital Finance Director
San Francisco Public Utilities Commission





### Fair and Efficient Pricing Topics

- Fair and Efficient Pricing?
- Subscription Levels?
- Underwriting Levels?
- Benchmarks (MMD, BVAL or More?)
- Selecting Comps?



### Fair and Efficient Pricing Topics

CONTINUED 2 OF 3

- Competitive vs. Negotiated?
- Expectations of the Municipal Advisor?
- Value of Co-Managers?
- Value of Retail Order Periods?
- Value of Labeling Bonds?



### Fair and Efficient Pricing Topics

CONTINUED 3 OF 3

- Value/Cost of Setting Custom Priorities?
- Valuing Optionality in Pricing?
- Syndicate Policies?
- Focusing on the right issues?



### QUESTIONS?



## FINAL TAKEAWAYS



### THANK YOU

Please complete the seminar evaluation and leave it on your table.

### **UPCOMING EVENTS**

Practical Adaptations to the Evolution of Credit Ratings November 19, 2024 | Webinar

Advanced Public Funds Investing: The Analytics of Investment Selection January 22–23, 2025 | Costa Mesa, CA

Municipal Market Disclosure April 8–9, 2025 | Costa Mesa, CA

For more information, visit: treasurer.ca.gov/CDIAC/seminars