

Dodd-Frank and Municipal Borrowing Costs: Evidence from Nationwide Data

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July 18, 2023

Dodd-Frank and the muni market

Federal response to 2007 financial crisis

Stabilize markets, reduce systemic risk

Reduce federal tax expenditure on bond interest

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Municipal advisors (MAs) unregulated prior to Dodd-Frank

By November 2010, MAs

- ...have a fiduciary duty to issuers

- ...must register with SEC and MSRB (temporary rule)

- ...expect promulgation of additional rules

Research question and potential mechanisms

Did the Dodd-Frank Act lower municipal interest costs by improving the quality of municipal advising services?

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Are effects driven by improvements in

...third-party certification?

...underwriter monitoring?

...technical expertise?

Municipal advisors

Private sector firms and individuals

Structure and market securities

Interact with rating agencies, underwriters, bond attorneys

Third-party certification

Muni market suffers from information problems

Certification mitigates asymmetric information

MA certification unequally beneficial

- Lower or no credit rating

- Less secure pledge

Leland & Pyle 1977; Diamond 1984; Millon & Thakor 1985; Booth & Smith 1986, Forbes, Leonard, & Johnson 1992; Johnson 1994; Vijayakumar & Daniels 2006, Allen & Dudney 2010

Underwriter monitoring

Underwriters agent to issuers and investors

Underwriter monopsony power in negotiated sales

MAs monitor underwriters

F, L & J 1992; Simonsen & Hill 1998; V & D 2006; A & D 2010; Luby & Moldogaziev 2013

Technical expertise

MAs provide technical expertise to issuing agencies

Some bond attributes require greater expertise

- Refunding bonds

- Call features

- Revenue

- Negotiated

Clarke 1997; V & D 2006; A & D 2010

Data

Ipreo Municipal Application (and Bond Buyer)

Nationwide, all issuer types

2002 to 2018

N = 2,059,069

Method

Generalized difference-in-differences

Post-period: 2011 to 2018

Treated group: bonds issued with MA

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Treated group: bonds issued with MA

$$\begin{aligned}Yield_{migt} = & \alpha_0 + \beta_1 MA_i * Post-2010_t \\ & + \beta_2 MA_i \\ & + \beta \mathbf{X}_m + \beta \mathbf{X}_i + \beta \mathbf{X}_g \\ & + \gamma_g + \lambda_t + \varepsilon_{migt}\end{aligned}$$

m indexes bond maturities

i indexes bond issues

g indexes issuers

t indexes years

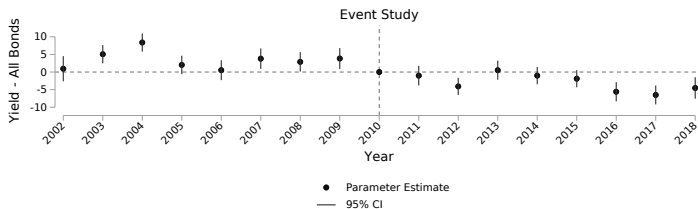
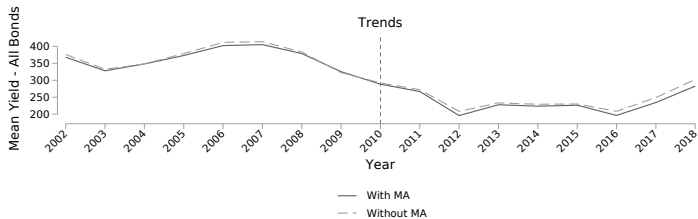
\mathbf{X} are vectors of covariates at the maturity-, issue-, and issuer-level

γ are issuer fixed effects

λ are year fixed effects

and ε are standard errors clustered at the issuer level

Full sample trends & event study



Potential mechanisms - Certification

Credit rating

AAA, AA, A, BBB or below, not rated

Security pledge

Unlimited GO, all GO, revenue

Certification sample

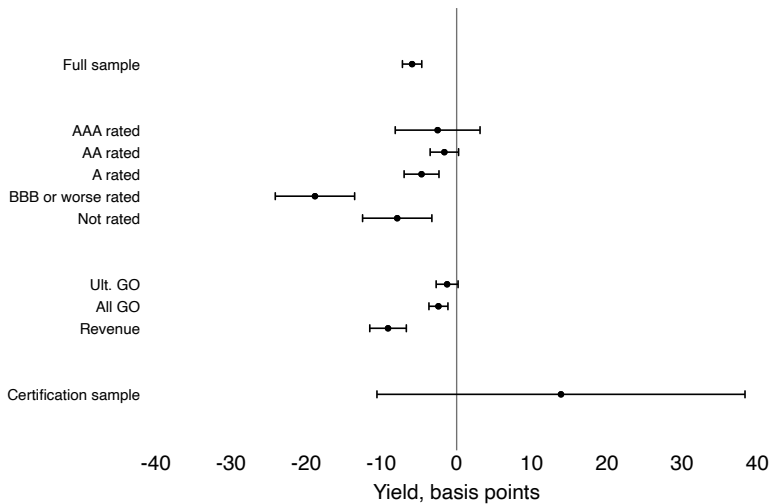
Rated below AA or not rated

Revenue

New money

Competitive

Certification results



Potential mechanisms - Monitoring

Method of sale

Competitive, negotiated

Monitoring sample

Negotiated

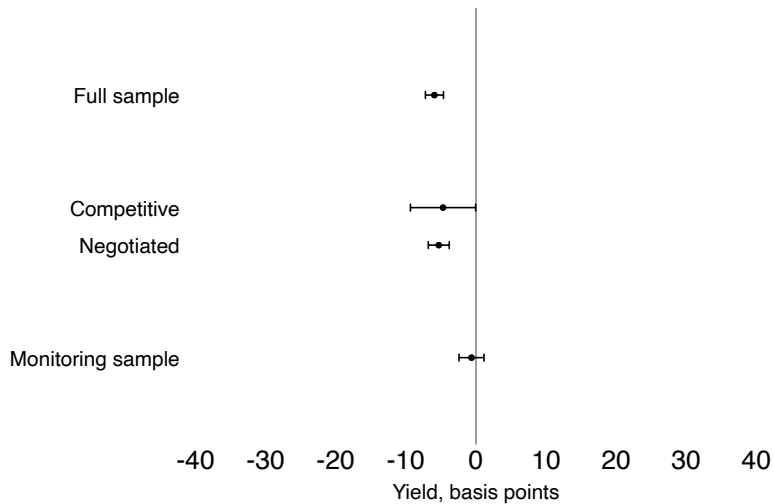
New money

Rated above A

Insured

GO

Monitoring results



Potential mechanisms - Expertise

Type of money

Advance refunding, current refunding, new money

Callability

With, without call feature

Expertise sample

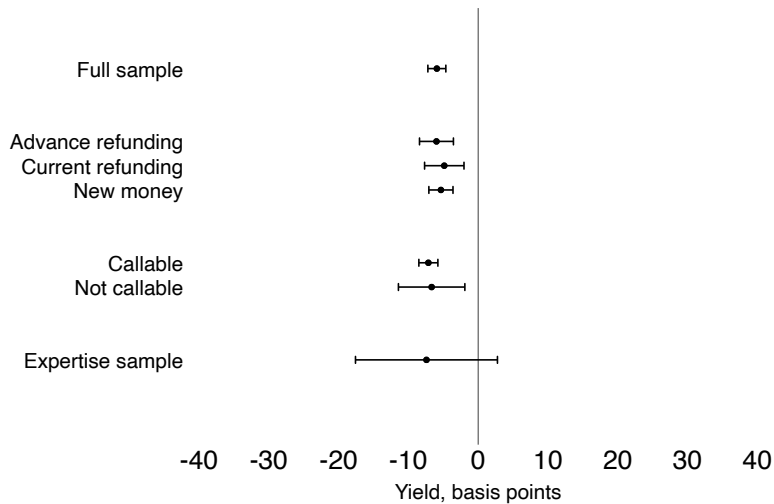
Refunding

With call feature

Competitive

Revenue

Expertise results



By relative change

Sample	Pre-2011 w/MA mean	%Δ from pre-2011 w/MA mean	N
BBB or lower	359	-5.25***	459,124
Certification	325	-2.54	47,938
Revenue	373	-2.44***	770,084
No call feature	293	-2.28***	256,809
Not rated	385	-2.06***	210,775
Expertise	379	-1.96	89,496
Call feature	366	-1.95***	1,802,014
Advance refunding	350	-1.71***	349,028
Full sample	358	-1.66***	2,059,569
New money	337	-1.59***	777,898
Current refunding	328	-1.48***	393,762
Negotiated	367	-1.42***	1,265,719
Competitive	351	-1.34**	793,716
A	366	-1.28***	531,120
AAA	328	-0.77	146,346
All GO	349	-0.69***	1,283,168
AA	349	-0.47*	711,369
Unlimited GO	350	-0.36*	1,003,308
Monitoring	339	1.32	53,062

Significant savings

Benefit

\$20 million issue, at par, 5% coupon, 20 year maturity

6bp reduction = \$150,000 NPV savings

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Cost

Median MA fee in CA 2011-2018 = \$38,000

Conclusion

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Potential mechanisms difficult to disentangle

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Strongest effect for certification

Mixed results for expertise

Weakest effect for monitoring