## Marketing, Pricing, \& Method of Sale

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SESSION 3 | MARKETING \& PRICING


## Marketing and Pricing: Issuer's Perspective

- Municipal entities issue bonds to fund public infrastructure, often with strict revenue limitations

Transportation


Schools


Housing


General Operations


Utilities


Refundings


## Marketing and Pricing: <br> Municipal Advisor's Perspective

- Has a fiduciary duty to the Issuer - which is to put the interest of the Issuer above their own interest (duty of loyalty and duty of care)
- Assists Issuer in evaluating borrowing cost by reviewing recent market comps and market conditions
- In a negotiated sale, assists Issuer in negotiating final interest rates on the bonds with the Underwriter
- In a competitive sale, confirms bids and final bond cash flows with winning bidder


## Marketing and Pricing: Underwriter's Perspective

- MSRB Rule G-17 requires the Underwriter to deal fairly at all times with both municipal issuers and investors
- The Underwriter, in a negotiated financing, structures and premarkets the bond issue well in advance of the pricing to maximize investor demand on the day of pricing



## Marketing and Pricing: Investor's Perspective

- Has responsibility to maximize total return, often relative to a benchmark or peer group
- Appetite for investments fluctuate daily, based on available cash to invest or reinvest
- Selection of maturities, credit (rating) levels, among other factors, depend on investment strategy, which is also fluid


## Structure of Underwriting Syndicate (Team): How Many Firms?

## \$25M Transaction

\$50M Transaction
\$100M Transaction

\$250M Transaction


60\% / 20\% / 20\%
\$500M Transaction


50\% / 20\% / 10\% / 10\% / 10\%

## Structure of the UW Team: Who Does What?

## Senior Manager Responsibilities

- Keeping Issuer Appraised
- Market updates \& trends, investor
- Recommends:
- Optimal Debt Structure
- Credit (Rating) Strategy
- Prices Bonds - sets market rates
- Investor outreach (Pre-Marketing)
- Commits capital (Underwriting)


## Co-Manager Responsibilities

- May provide banking ideas
- Supplements senior manager efforts with investor outreach
- Underwriting Liability set by Issuer


## What Affects Pricing?

Investor Demand


Credit Quality


Strucłural Characteristics


Par Size


## Economic Calendar



## How Are Bonds Priced? <br> A. Identify the Pricing Benchmark

TAX-EXEMPT BONDS: MMD (Muni Market Data) "AAA" Yield Curve TAXABLE BONDS : US Treasury Bond Yield Curve
4.00\%
3.50\%
3.00\%
2.50\%
2.00\%
1.50\%
1.00\%
0.00\%

- 10Y UST
- 10Y MMD

| $\underset{\underset{N}{N}}{\underset{N}{N}}$ | $\underset{\underset{\infty}{\underset{\sim}{\lambda}}}{\underset{\sim}{\lambda}}$ | $\stackrel{\underset{N}{\underset{N}{N}}}{\stackrel{\sim}{N}}$ | $\begin{aligned} & \underset{i}{\lambda} \\ & \frac{i}{\sigma} \end{aligned}$ | $\underset{\underset{\sigma}{\underset{~}{J}}}{\underset{\sim}{J}}$ | $\stackrel{\underset{\sim}{\lambda}}{\underset{\sim}{\infty}}$ | $\underset{\underset{i}{N}}{\underset{\sim}{N}}$ | $\frac{\underset{i}{i}}{\underset{\sim}{n}}$ | $\stackrel{\underset{\sim}{\lambda}}{\underset{\sim}{\lambda}}$ | $\underset{\underset{\sim}{N}}{\underset{\sim}{N}}$ | $\underset{\underset{\sim}{\lambda}}{\underset{\sim}{\lambda}}$ | $\begin{aligned} & \underset{\sim}{\lambda} \\ & \underset{\sim}{N} \\ & \hline \end{aligned}$ |  | $\begin{aligned} & \underset{\sim}{N} \\ & \underset{\sim}{N} \end{aligned}$ | $\stackrel{\underset{N}{N}}{\underset{\sim}{i}}$ | $\stackrel{N}{\underset{N}{N}}$ | $\stackrel{\underset{N}{N}}{\underset{\sim}{i}}$ | $\stackrel{N}{\underset{N}{N}}$ | $\stackrel{\underset{N}{\infty}}{\underset{\sim}{\sim}}$ | $\underset{\underset{\sim}{N}}{\underset{\sim}{N}}$ | $\frac{\underset{N}{i}}{\underset{N}{n}}$ | $\underset{\underset{N}{N}}{\underset{N}{N}}$ | $\frac{\underset{N}{N}}{\underset{N}{N}}$ | $\stackrel{\underset{N}{\underset{~ N}{̇}}}{\substack{-1}}$ | $\stackrel{\underset{N}{N}}{\underset{N}{N}}$ | $\begin{aligned} & \underset{N}{N} \\ & \underset{N}{N} \end{aligned}$ | $\begin{aligned} & N \\ & \underset{N}{N} \\ & \underset{N}{\prime} \end{aligned}$ | $\underset{\underset{\infty}{N}}{\underset{\sim}{N}}$ | $\begin{aligned} & \underset{N}{N} \\ & \underset{\sim}{N} \end{aligned}$ | N N N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |


|  | Since 9/22/2021 |  | Current | 1 Wk. Ago | 1 Mo. Ago |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | High | Low | $(\mathbf{9} / \mathbf{2 2} / \mathbf{2 2 )}$ | $(9 / 15 / \mathbf{2 2 )}$ | $(\mathbf{8} / \mathbf{2 2} / \mathbf{2 2 )}$ |
| 10 Year UST | $3.70 \%$ | $1.33 \%$ | $3.70 \%$ | $3.45 \%$ | $3.03 \%$ |
| $\mathbf{1 0}$ Year MMD | $3.06 \%$ | $0.94 \%$ | $3.06 \%$ | $2.85 \%$ | $2.48 \%$ |

## How Are Bonds Priced?

## B. Add a Credit/Liquidity Spread

## Municipal Issuer rated "A1/A+/A+"

| Maturity | Coupon | MMD | Credit | Liquidity | Total Spread | Yield |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2023 | 4.00\% | 1.59\% | +15 | +10 | +25 | 1.84\% |
| 2024 | 4.00\% | 1.69\% | +15 | +12 | +27 | 1.96\% |
| 2025 | 4.00\% | 1.71\% | +15 | +14 | +29 | 2.00\% |
| 2026 | 4.00\% | 1.79\% | +15 | +16 | +3 | 2.10\% |
| What do investors need to know to purchase the bonds? <br> + Type (GO vs Revenue) <br> + Strength of Security Pledge <br> + Project Risks <br> + Service Area Demographics <br> + Risks (e.g. litigation, climate) |  |  |  | How quickly/easily can an investor sell the bond? <br> + Rating(s) <br> + Name (size) of Issuer <br> + Size of Maturity <br> + Market Technicals/Demand <br> + Market Tone/Interest Rate Trends |  |  |

## How Are Bonds Priced?

## - Pricing Data Points ("comps") are used to assess the fairness of the pricing

| Sale Date Issuer <br> Issue <br> Par <br> Call Date <br> Insurance <br> Rating | $05 / 18 / 22$ <br> Ontario Public Financing Authority 2022 Lease Revenue Bonds, Series A $\begin{gathered} \$ 90,830 \\ 11 / 1 / 32 @ 100 \\ \text { AGM } \\ \text {--/AA-/-- } \\ \hline \end{gathered}$ |  |  |  |  |  |  | 05/18/22 <br> North Lake Tahoe PFA <br> Lease Revenue Bonds, Series 2022 $\$ 69,315$ 12/01/29 @103 <br> None <br> --/AA/-- |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Par | Coupon | Yield | MMD* | Spread | YTM | YTM Spread | Par | Coupon | Yield | MMD* | Spread |  | YTM Spread |
| 2023 | \$1,335 | 5.00 | 1.89 | 1.77 | 0.12 |  |  | \$995 | 5.00 | 2.26 | 2.17 | 0.09 |  |  |
| 2024 | \$1,405 | 5.00 | 2.17 | 1.98 | 0.19 |  |  | \$1,045 | 5.00 | 2.53 | 2.37 | 0.16 |  |  |
| 2025 | \$1,480 | 5.00 | 2.37 | 2.07 | 0.30 |  |  | \$1,095 | 5.00 | 2.76 | 2.50 | 0.26 |  |  |
| 2026 | \$1,555 | 5.00 | 2.44 | 2.12 | 0.32 |  |  | \$1,155 | 5.00 | 2.86 | 2.52 | 0.34 |  |  |
| 2027 | \$1,635 | 5.00 | 2.57 | 2.20 | 0.37 |  |  | \$1,215 | 5.00 | 3.00 | 2.62 | 0.38 |  |  |
| 2028 | \$1,715 | 5.00 | 2.70 | 2.30 | 0.40 |  |  | \$1,275 | 5.00 | 3.16 | 2.75 | 0.41 |  |  |
| 2029 | \$1,805 | 5.00 | 2.87 | 2.42 | 0.45 |  |  | \$1,340 | 5.00 | 3.32 | 2.87 | 0.45 |  |  |
| 2030 | \$1,900 | 5.00 | 2.98 | 2.48 | 0.50 |  |  | \$1,410 | 5.00 | 3.40 | 2.92 | 0.48 |  |  |
| 2031 | \$1,995 | 5.00 | 3.06 | 2.54 | 0.52 |  |  | \$1,480 | 5.00 | 3.49 | 2.99 | 0.50 |  |  |
| 2032 | \$2,095 | 5.00 | 3.15 | 2.58 | 0.57 |  |  | \$1,555 | 5.00 | 3.57 | 3.03 | 0.54 | 3.66 | 0.63 |
| 2033 | \$2,205 | 5.00 | 3.22 | 2.62 | 0.60 | 3.34 | 0.72 | \$1,635 | 5.00 | 3.74 | 3.09 | 0.65 | 3.87 | 0.78 |
| 2034 | \$2,320 | 5.00 | 3.28 | 2.64 | 0.64 | 3.49 | 0.85 | \$1,720 | 5.00 | 3.83 | 3.11 | 0.72 | 3.99 | 0.88 |
| 2035 | \$2,435 | 5.00 | 3.33 | 2.66 | 0.67 | 3.62 | 0.96 | \$1,810 | 5.00 | 3.93 | 3.13 | 0.80 | 4.11 | 0.98 |
| 2036 | \$2,560 | 5.00 | 3.39 | 2.67 | 0.72 | 3.73 | 1.06 | \$1,900 | 5.00 | 3.99 | 3.14 | 0.85 | 4.20 | 1.06 |
| 2037 | \$2,695 | 5.00 | 3.46 | 2.69 | 0.77 | 3.84 | 1.15 | \$2,000 | 5.00 | 4.02 | 3.16 | 0.86 | 4.26 | 1.10 |

[^0]Note: All par amounts in \$000s

## How Are Bonds Priced?

## Call Option Effect on Par Amount \& Yields

| Call Option Comparison: Tax Exempt Bonds |  |  |  |
| :---: | :---: | :---: | :---: |
| Call Feature | 5-Year | 7-Year | 10-Year |
| Par | \$228,470,000 | \$223,215,000 | \$217,010,000 |
| Premium | \$22,733,358 | \$27,960,216 | \$34,130,113 |
| Bond Proceeds | \$251,203,358 | \$251,175,216 | \$251,140,113 |
| All-In TIC (Yield to Maturity proxy) | 4.22\% | 4.02\% | 3.79\% |
| Arbitrage Yield (Yield to Call proxy) | 2.92\% | 2.99\% | 3.06\% |
| Total Debt Service | \$440,225,184 | \$430,097,693 | \$418,151,117 |

- 10-Year optional call is "standard" in municipal bond market
- Shorter calls provide greater call but have a higher "kick" to YTM
- So, when or why would an Issuer prefer a shorter call?
- What about in Taxable Bonds? What are Make-Whole Calls?


## How Are Bonds Priced?

## Couponing Effect on Par Amount \& Yields

| Coupon Comparison: Tax-Exempt Bonds |  |  |  |
| :---: | :---: | :---: | :---: |
| Coupon Structure | 3\% Coupons | 4\% Coupons | 5\% Coupons |
| Par | \$253,760,000 | \$232,760,000 | \$216,550,000 |
| Premium/(Discount) | $(\$ 2,427,051)$ | \$18,465,288 | \$34,591,331 |
| Bond Proceeds | \$251,332,949 | \$251,225,288 | \$251,141,331 |
| All-In TIC (Yield to Maturity proxy) | 3.12\% | 3.41\% | 3.77\% |
| Arbitrage Yield (Yield to Call proxy) | 3.08\% | 3.04\% | 3.01\% |
| Total Debt Service | \$384,392,497 | \$399,062,129 | \$417,293,181 |

- Higher coupons are strongly preferred by investors, especially in a rising interest rate environment
- Lower coupons are more economic in stable/lower interest rate environments


## How Are Bonds Priced?

## Evaluating the Use of Insurance

- Two active insurers: AGM and BAM
- S\&P ratings of 'AA'
- Using insurance "lends" the Insurer's rating to the transaction
- Beneficial to Issuer's whose transactions are rated below 'AA'
- Bond insurance should reduce the cost of a borrowing
- A surety reserve vs a cash funded reserve
- Lower interest rates resulting in lower debt service
- If insurance and/or surety bids are too high, insurance becomes too costly and increases debt service
- Evaluated prior to the pricing; sometimes a pricing day decision

One of the Most Important Steps Issuers Can Take to Secure the Best Price: Improved Disclosure

Multi-Year Budgets


MARARGEMEIT
UHUHREDEUI
Reserve Levels


## Green Bonds: What are They and Why Should I label My Bond Green?

- Impact of the project is just as important as the project itself
- Detailed disclosure metrics of "Green" label such as:
- Impact on environment/climate
- Carbon Emissions; Waste Reduction; etc.
- Dedicated Green Investor relations website
- Annual Reports



## Green Bond Designation: Two Recent Examples

- Western Placer Waste Management Authority - Solid Waste Revenue Bonds, Series 2022A (Green Bonds)
- Funded a Materials Recovery Facility to meet statewide diversion mandates
- Self-Designation
- Garnered large orders from three ESG focused bond funds


## \# EatonVance

COLUMBIA

```
NEUBERGER BERMAN
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- California Public Works - Lease

Revenue Bonds, 2021 Series C \& D (Green Bonds - Climate Bond Certified)

- Funded construction of a LEED building designed with sustainability as a gal
- Third-party certification
- Climate Bond Certified
- Third-party engaged to verity to certification
- Kestrel Verifiers
- Report included as POS Appendix


## Marketing Trends: <br> Inflation vs. Recession Tug of War

- Fed raising rates at fastest pace in 30 years
- Monetary policy poses greatest risk of a recession by hiking rates too fast or too far
- World events are fueling inflation: Ukraine, China, Supply Chain
- Inflation fears triggers rise in rates
- Recession fears result in market rallies/lower interest rates

- Sharp (unexpected) increase in interest rates starting in January
- YTD ~14.0\% reduction in issuance (mostly fewer refundings)
- Rising rates \& inflation are the key drivers on investor hesitancy


Muni Fund Flows YTD Total \$(54.407) Billion of Net Inflows


## Marketing Trends: Since January 2022

## 10-Year MMD \& UST Rates



## 30-Year MMD \& UST Rates

## Who Buys Municipal Bonds?

- >\$4T in bonds outstanding as of March 2022
- Bond purchasers on the day of pricing differ from long term bond holders



## Recent Muni TAXABLE

## Bond Example

- Santa Cruz Metropolitan Transit District Sales Tax Revenue Bonds, (Measure G) Series 2022


| Account | Allotments |
| :--- | ---: |
| Performance Trust | $\$ 7,605$ |
| Delphi Financial | 6,640 |
| Wells Capital Management | 4,590 |
| Standard Ins. Co. | 4,465 |
| PIMCO Advisors | 2,825 |
| Brotherhood Mutual | 2,770 |
| First New York Securities | 2,750 |
| Transmarket Bastion | 2,480 |
| Neuberger Berman | 1,820 |
| Union Bank of CA | 1,720 |
| Indiana Farm Bureau | 1,725 |
| Allstate Insurance Co | 1,575 |
| Bel Air Investment Advisors | 1,200 |
| Western Asset Fund | 1,175 |
| Fiduciary Trust Co. of NY | 1,000 |
| $16 t h$ Amendment Advisors | 975 |
| Sterling Capital Mgmt | 875 |
| Sit Investment Advisors | 975 |
| J.P. Morgan Fleming | 600 |
| Halyard Asset Management | 585 |
| Belle Haven Investments | 500 |
| RBC Global Asset Mgmt | 1,050 |
| Three add'I SMA's | $\$ 51,750$ |
| Total |  |

## Recent Muni TAX-EXEMPT Bond Example

- Ontario PFA - 2022 Lease Revenue Bonds, Series C (Civic Center Improvements)


## BlackRock

## Allstate

INVESTMENT COMPANY

## nuveen

A TIAA Company
Payden\&Rygel
P I MCO


| Account | Allotments |
| :--- | ---: |
| EV Tabs | $\$ 17,070$ |
| Allstate Insurance Company | 15,765 |
| PIMCO Advisors L.P. | 11,220 |
| Payden \& Rygel | 8,805 |
| Blackrock/MLAM | 9,000 |
| J.P. Morgan Fleming | 3,385 |
| Wells Capital Management | 3,360 |
| Nuveen Asset Mgmt, LLC | 3,045 |
| Fiera Capital Inc. | 2,390 |
| Breckinridge Capital Advisors | 1,710 |
| Western Asset Fund | 1,625 |
| Massachusetts Fin. Services | 2,400 |
| US Trust Corporation | 1,135 |
| RW Baird Advisors | 1,665 |
| Wells Fargo Private Group | 455 |
| Clark Capital Mgmt Group | 610 |
| Hartford Life Insurance Co. | 515 |
| Columbia Mgmt Group | 660 |
| Invesco Power Share | 2,500 |
| Blackrock PPG | 525 |
| Maritime Capital | 1,275 |
| Five add'l SMA's | 1,715 |
| Total | $\$ 90,830$ |

## Main Takeaways

- Pricing Municipal Bonds is more "art than science"
- External Factors (macro-economic, supply \& demand, etc.) are beyond issuers' control
- Internal Factors (Disclosure, Finance Team, Structure, etc.) should be a focus of the Issuer to secure the lowest borrowing rate


[^0]:    *All spreads based on interpolated MMD through 2035

