

# 2025 High Yield Municipal Bond Conference

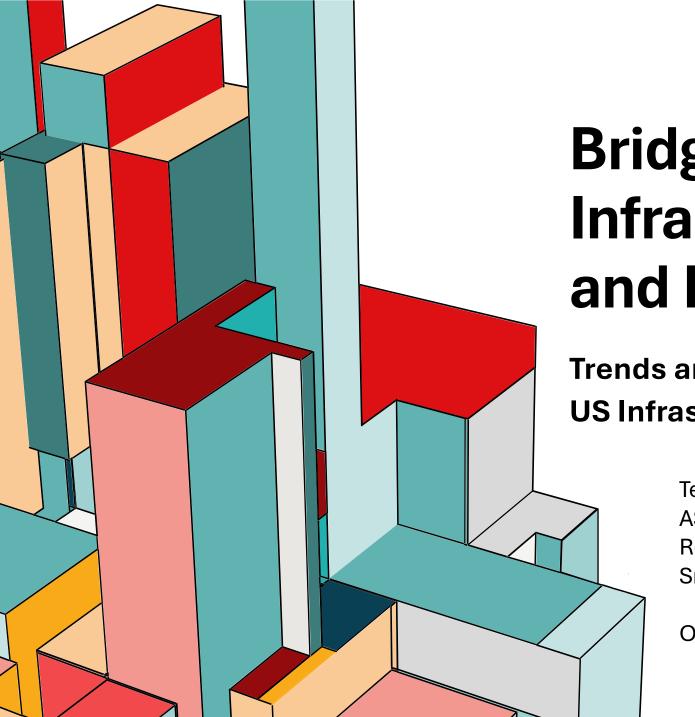




Terry Smith



Maria Lehman





# Bridging The Infrastructure Funding and Financing Gap

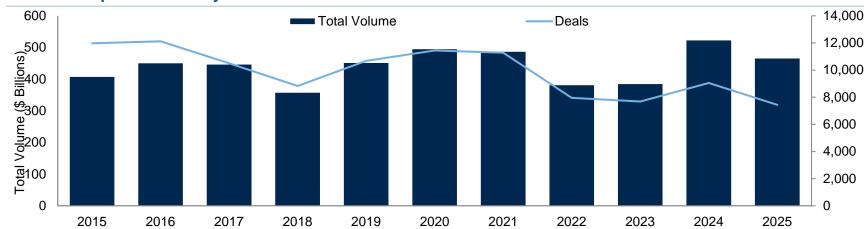
Trends and Strategies in US Infrastructure Markets

Terence M. Smith
ASCE's Committee for America's Infrastructure
Report Card
Smith's Research & Gradings

October 28, 2025

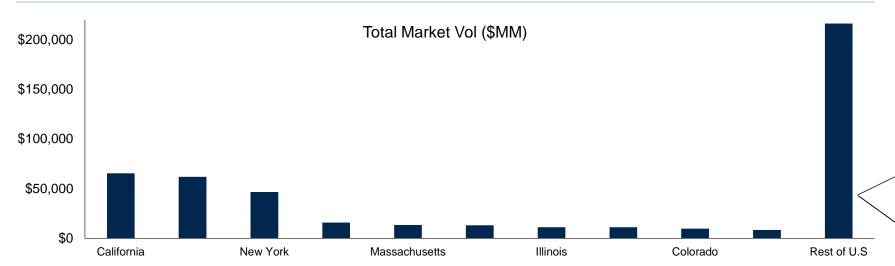
# **Municipal Industry Issuance**

#### **Total Municipal Issuance by Year**



Source: Bloomberg as of October 7, 2025

#### **2025 YTD Total Municipal Issuance by State**



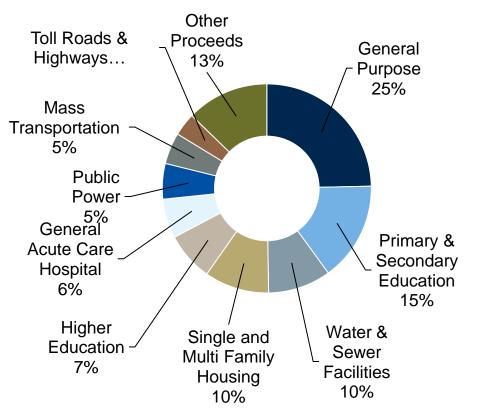


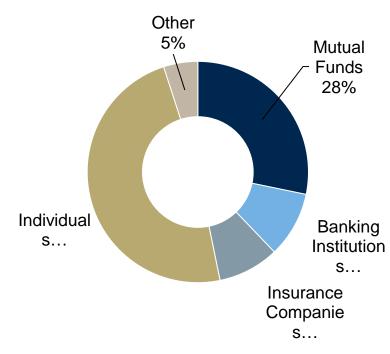
Source: Bloomberg as of October 7, 2025

## **Historical Use of Proceeds and Holders of Municipal Bonds**

#### US Municipal Financings by Use of Proceeds (2024)<sup>1</sup>

#### Holders of Municipal Bonds (as of June 30, 2025)<sup>2</sup>





<sup>&</sup>lt;sup>1</sup>Municipal Market Facts: 2024 Issuance by Sector - LSEG <sup>2</sup> 2025 Fixed Income Securities Statistics Report - SIFMA



### Municipal Market Interest Rates as of October 8, 2025

#### **Tax Exempt Rates**

Change in MMD						
10/8/2025 Daily ∆ (bps) Weekly ∆ (bps)						
3yr MMD	2.27	0	0			
5yr MMD	2.32	0	0			
7yr MMD	2.55	0	0			
10yr MMD	2.88	-3	-3			
30yr MMD	4.19	-2	-2			



#### **U.S. Treasury Rates**

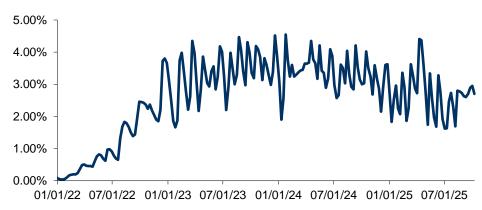
Change in Treasuries						
10/8/2025 Daily $\Delta$ (bps) Weekly $\Delta$ (bps)						
3yr UST	3.58	2	2			
5yr UST	3.72	1	4			
7yr UST	3.91	1	3			
10yr UST	4.13	-1	1			
30yr UST	4.72	-1	0			

Change in MMD/UST Ratio					
	10/8/2025	Daily ∆ (%)	Weekly ∆ (%)		
3yr Ratio	63%	0%	0%		
5yr Ratio	62%	0%	-1%		
7yr Ratio	65%	0%	-1%		
10yr Ratio	70%	-1%	-1%		
20vr Dotio	9.09/	0.0/	0.0/		

#### **Market Commentary**

- Tax exempt benchmark yields were unchanged from 2026-33, declined 3bps in 2034-41 and declined 2 bps in 2042-55.
- Treasury yields were mixed, and little changed on the day.
- Municipal secondary trading saw lighter activity.
- EPFR reported \$281MM of aggregate daily inflows, with all funds reporting inflows

#### **Short Term Market**





# **Municipal Bond Underwriting Rankings**

#### 2025YTD Negotiated Lead Mgr Rankings (by Par)

	_		-	
Underwriting Firm	Par Amount (\$ mil)	Rank	Mkt. Share (%)	# of Issues
BofA Securities	\$44,522.1	1	12.6	206
<b>RBC Capital Markets</b>	40,249.2	2	11.4	269
JP Morgan	30,616.8	3	8.7	142
Morgan Stanley	24,852.9	4	7.1	92
Goldman Sachs	23,830.1	5	6.8	56
Wells Fargo	22,578.2	6	6.4	112
Raymond James	21,022.2	7	6.0	350
Jefferies	19,915.7	8	5.7	105
Stifel	18,003.3	9	5.1	505
Barclays	17,622.2	10	5.0	67
Industry Total	\$ 354,497.7	-	100.0	3,735

Source: Bloomberg, as of 10/8/25

#### 2024 Negotiated Lead Mgr Rankings (by Par)

Underwriting Firm	Par Amount (\$ mil)	Rank	Mkt. Share (%)	# of Issues
BofA Securities	\$66,409.7	1	16.5	274
RBC Capital Markets	41,753.3	2	10.3	354
JP Morgan	37,087.9	3	9.2	187
Morgan Stanley	28,669.0	4	7.1	95
Wells Fargo	25,572.7	5	6.3	158
Jefferies	25,196.3	6	6.2	114
Goldman Sachs	24,759.1	7	6.1	60
Raymond James	22,390.2	8	5.6	397
Stifel	22,303.4	9	5.5	723
Barclays	17,170.1	10	4.3	82
Industry Total	\$408,315.7	-	100.0	4,507





# **State Debt & Liabilities**

Fiscal 2023 actual

U.S. state debt affordability over time					
	2019	2020	2021	2022	2023
Net debt service as a % of governmental expenditures	3.7	3.7	3.3	3	2.9
Net direct debt as a % of personal income	1.9	1.8	1.7	1.7	1.7
Net direct debt as a % of real GSP	1.6	1.7	1.6	1.5	1.4
Net direct debt per capita (mil. \$)	940	932	1,000	1,006	1,067
GSPGross state product. Source: S&P Global Ratings.					

### **Rainy Day Fund Balances**

Median Balance as a Percentage of General Fund Expenditures (Graph by NASBO)



Source: S&P Global - NASBO Fiscal Survey of the States; FY25 & FY26 estimated.



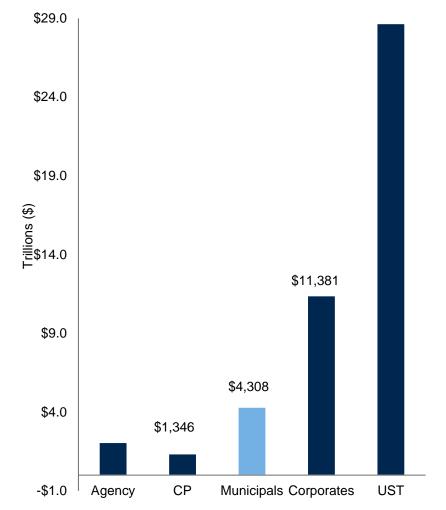
# U.S. Municipal Bond Market

The U.S municipal market is a \$4.3 trillion market and has been vital to the funding of U.S public infrastructure across various sectors

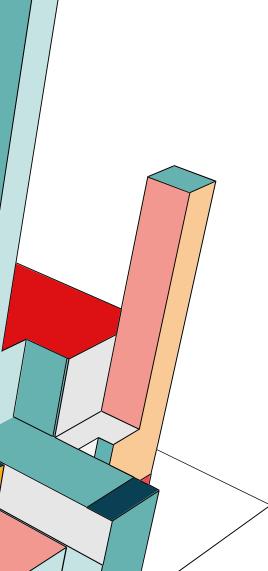
#### **U.S Debt Sectors (\$ in trillions)**

- Size and Scale The U.S. municipal bond market is one of the largest fixed-income markets globally, with roughly \$4.3 trillion outstanding, spanning over 17,700 state and local issuers.
- Credit Quality Municipals are generally high-quality and low-default securities – about two-thirds of the market is rated AA or higher, supported by strong tax bases, essential-service revenues, and conservative debt management.
- Issuer Types & Structures The market includes General Obligation (GO) bonds backed by taxing power and Revenue bonds secured by specific project revenues.
- Investor Base & Market Drivers The market is primarily domestic retail with mutual funds, investment managers, and insurance companies playing key roles. Demand is heavily influenced by tax-exempt income, interest rate environment, and state-specific fiscal trends.

#### U.S Debt Sectors (\$ in trillions)\*







# **Report Card History**

Categories	2025	2021	2017	2013
<b>Cumulative Grade</b>	С	C-	D+	D+
Aviation	D+	D+	D	D
Bridges	С	C-	C+	C+
Broadband	C+	NG	NG	NG
Dams	D+	D	D	D
Drinking Water	C-	C-	D	D
Energy	D+	C-	D+	D+
Hazardous Waste	С	D+	D+	D
Inland Waterways	C-	D+	D	D-
Levees	D+	D	D	D-
Public Parks	C-	D+	D+	C-
Ports	В	B-	C+	С
Rail	B-	В	В	C+
Roads	D+	D	D	D
Schools	D+	D+	D+	D
Solid Waste	C+	C+	C+	B-
Stormwater	D	D	NG	NG
Transit	D	D-	D-	D
Wastewater	D+	D+	D+	D

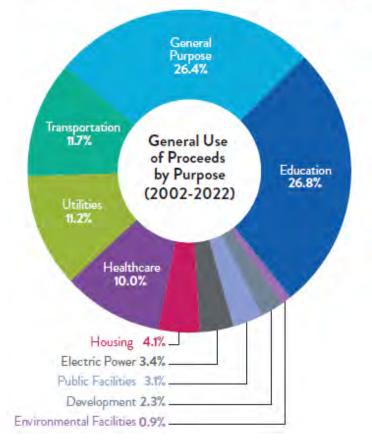




#### Importance of Tax-Exempt Muni Bonds

- State and local governments—not the federal government pay for the majority of U.S. infrastructure development and maintenance.
- State and local governments are responsible for over 90% of public sector construction spending, most of which is funded through tax-exempt bonds.
- In 2023, nearly \$400 billion in new municipal bonds were issued, with the expectation that tax-exempt municipal bonds will finance another \$3 trillion in new infrastructure investments by 2031.



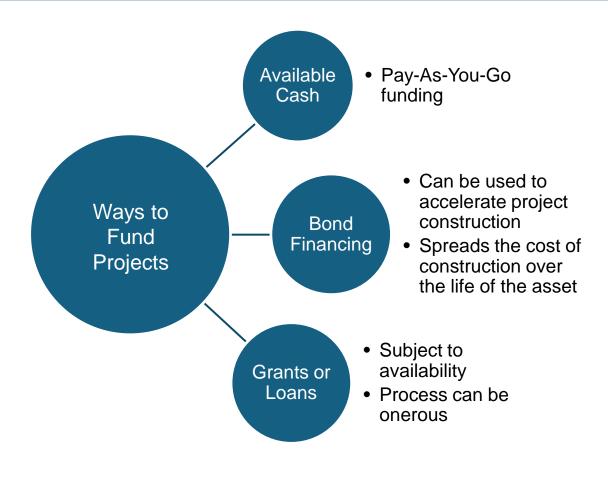


Source: ASCE



# **Municipal Bond Financing for Capital Projects and Infrastructure**

Ways for Municipalities to Fund Capital Improvement Projects and Infrastructure Development







# **Main Participants in a Transaction** Issuer's Counsel **Underwriters**' Underwriter Counsel **Issuers** Municipal Advisor Feasibility Consultant Credit **Bond Counsel Enhancers** Rating Agencies











# 2025 Report Card for America's Infrastructure

<b>→</b>	AVIATION	D+
	BRIDGES	C
<b>**</b>	BROADBAND NEW	C+
	DAMS	1 D+
	DRINKING WATER	C-
V	ENERGY	<b>J</b> D+
	HAZARDOUS WASTE	<b>1</b> C
	INLAND WATERWAYS	1 C-
	LEVEES	<b>1</b> D+

An	PARKS AND RECREATION	1 C-
	PORTS	<b>1</b> B
4	RAIL	<b>↓</b> B- ≋
	ROADS	<b>1</b> D+
	SCHOOLS	D+
	SOLID WASTE	C+
	STORMWATER	D
	TRANSIT	1 D
4	WASTEWATER	D+

America's Cumulative Infrastructure Grade

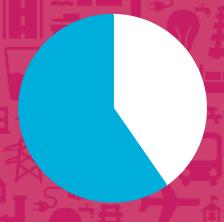




# **Investment Gap**

Infrastructure System	TOTAL NEEDS	FUNDED	FUNDING GAP
AVIATION <sup>3</sup>	\$310	\$197	\$113
BRIDGES⁴	\$538	\$165	\$373
BROADBAND <sup>5</sup>	\$61	\$61	\$0
DAMS <sup>6</sup>	\$185	\$20	\$166
DRINKING WATER <sup>7</sup>	\$670	\$361	\$309
ENERGY <sup>8</sup>	\$1,886	\$1,308	\$578
HAZARDOUS & SOLID WASTE9	\$162	\$146	\$16
INLAND WATERWAYS & PORTS <sup>10</sup>	\$45	\$32	\$13
LEVEES <sup>11</sup>	\$97	\$7	\$91
PUBLIC PARKS <sup>12</sup>	\$106	\$62	\$44
RAIL <sup>13</sup>	\$145	\$113	\$32
ROADS <sup>14</sup>	\$2,233	\$1,549	\$684
SCHOOLS <sup>15</sup>	\$1,100	\$671	\$429
TRANSIT <sup>16</sup>	\$618	\$466	\$152
WASTEWATER + STORMWATER <sup>17</sup>	\$983	\$293	\$690
TOTALS	\$9,139	\$5,450	\$3,689

\$3.7
Trillion
needed



CURRENT FUNDING

FUNDING GAP

# **Bridging the Economic Impact**

Ten-Year Gaps with Continue to Act Scenario, 2024-333

Total Needs - Anticipated Investment = Gap

Dollars in 2022 Billions

Columns may not add due to rounding.

\$1,242 TOTAL NEEDS \$3,549 \$2,293

Surface Transportation \$13
TOTAL
NEEDS
\$45
\$32

Water Transportation \$578 TOTAL NEEDS \$1,886 \$1,308

Energy

\$114 TOTAL NEEDS \$310 \$197

Aviation

\$999 TOTAL NEEDS \$1,653 \$655

Drinking Water, Wastewater, & Stormwater



**Anticipated Investment** 



Gap

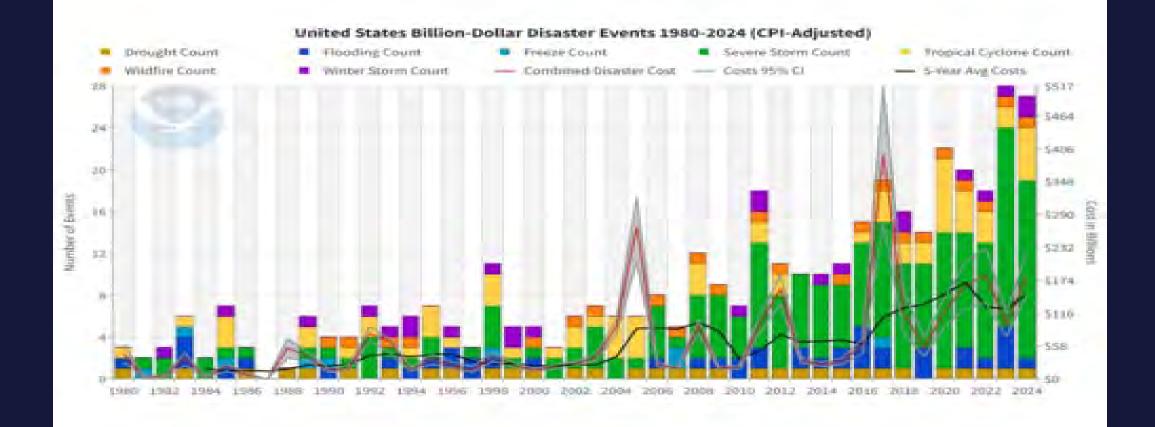












# Resilience Investments Pay Dividends



#### New Orleans' Levee System

\$14 billion of investment in new levees, pump stations, and other upgrades protected the city against Hurricane Ida



#### Alaska Earthquake

In 2018, Anchorage was hit by a 7.1 earthquake. The part of the city following ASCE 7 standards only reported one damaged building and no fatalities.





The Power of Bonds in Federal Policy

