## MUNICIPAL ANALYSTS GROUP OF NEW YORK

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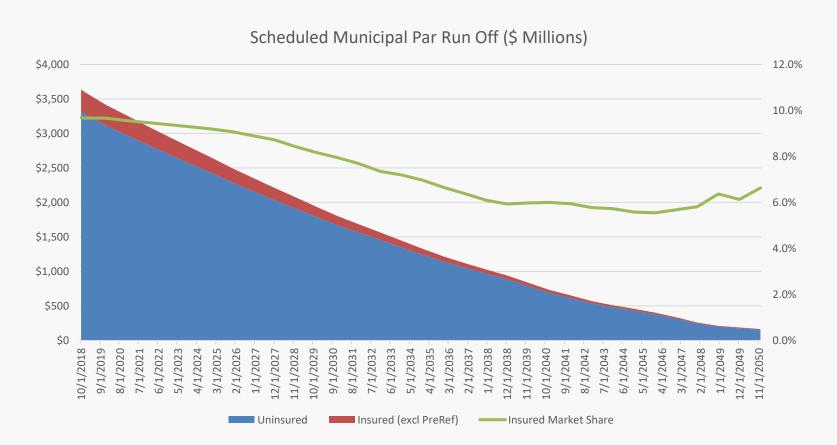


#### **Municipal Market Analytics**

- The leading independent research and consulting group in the US municipal market
- Well known thought leader on market and credit trends, infrastructure finance, related systemic risks, and regulation/policy issues
- No sales, trading, banking, or underwriting operations or affiliations;
  MMA is not a registered advisor or asset manager
- Core business is strategy and research reports and proprietary market data. Several hundred municipal industry subscribers, including buy side and sell side firms, advocacy organizations, regulators, and others
- Consulting arrangements include long-term default modeling, bank portfolio filtering for credit surveillance, and single name credit research

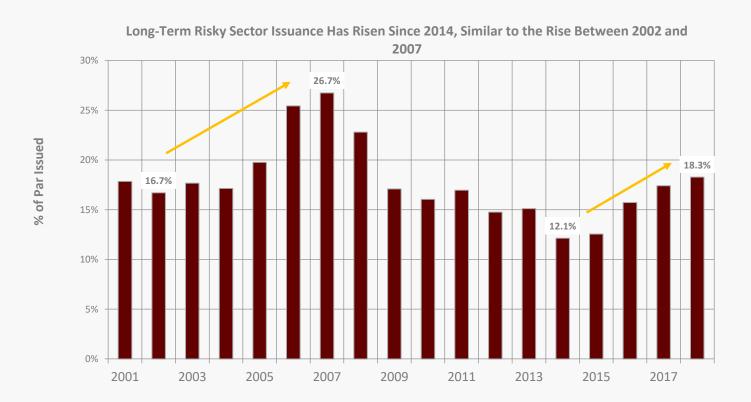


# Outstanding Insured Par Matures Slightly Faster Than Total Muni Par



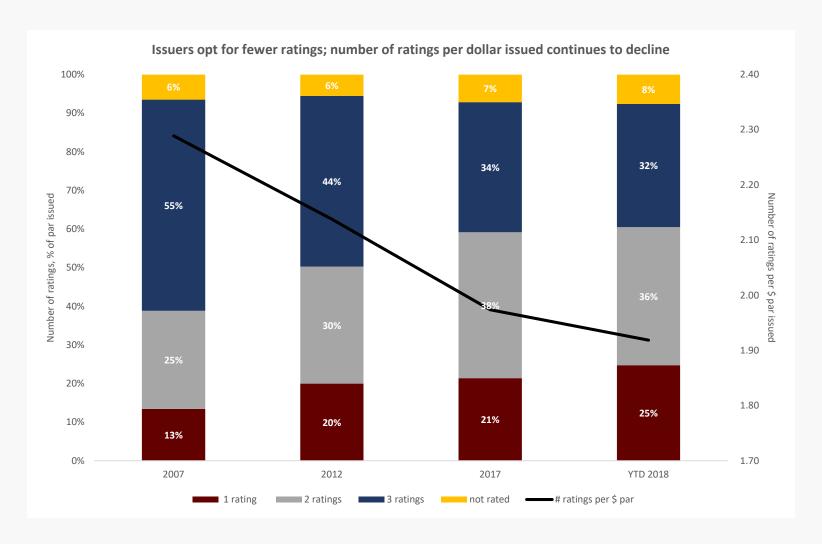


### **Risky Sector Issuance Continues to Grow**





### **Bond Issues Carrying More Than One Rating On the Decline**





### **Credit Spreads Remain at Low Levels**

Bond Buyer Revenue vs. G.O.: Spread (bps): 51 bps January, 1980 - September 28, 2018

