

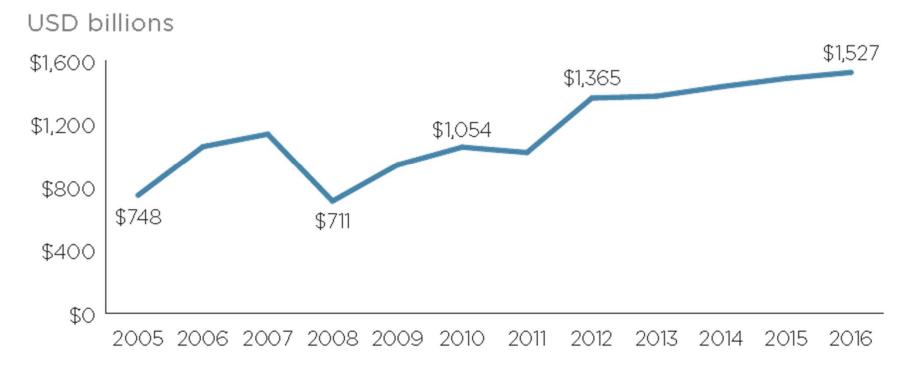
John Gallagher, Head of Municipal Bonds and U.S. High Grade Product Management



There are a lot more bonds to trade today

By the end of 2016, corporate debt issuance has jumped an amazing 200% to \$1.5 trillion

U.S. CORPORATE DEBT ISSUANCE



Source: SIFMA

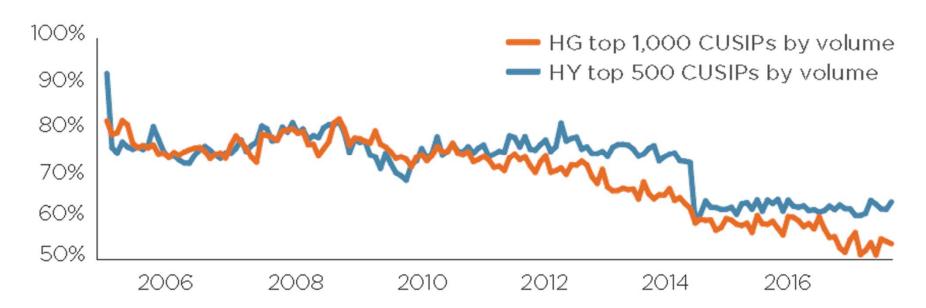
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MarketAxess[®]

And the market has embraced this diversity

The market's post-crisis liquidity decline has been spread across an increasingly diverse list of bond issues and represents a challenge that is driving a search for new skills and new technology on buy-side trading desks

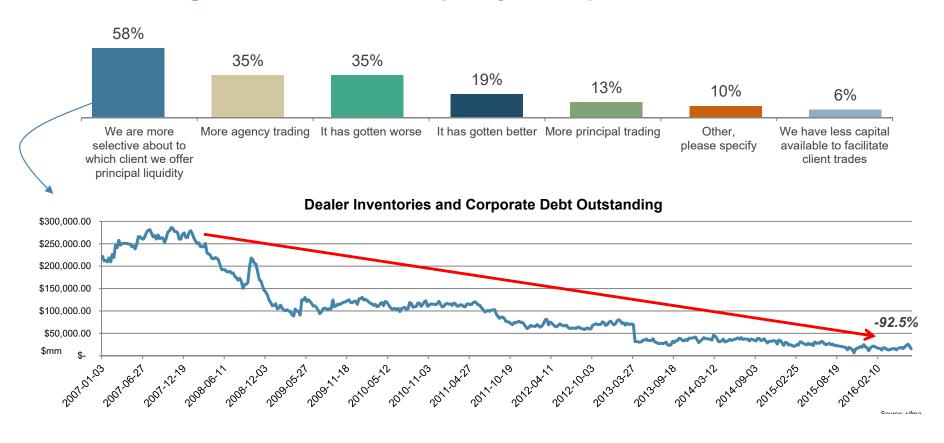
TRACE Liquidity Concentration



Source: MarketAxess

Dealers still not willing or able to put capital to work

Changes to Provision of Liquidity in Corporate Bond Market



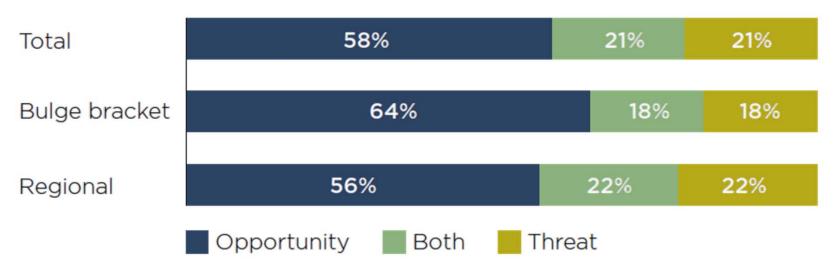
Source: sfma

Base: 31; Q9. How has your provision of liquidity in the corporate bond market changed in the past 2 years? (Corporate Bonds ONLY)



As such, dealers are embracing e-trading

PERCEPTION OF THE GROWTH OF ELECTRONIC TRADING*



Note: *21% both. Based on 38 respondents: 11 bulge bracket and 27 regional respondents. Source: Greenwich Associates 2017 Fixed-Income Dealers Study



E-trading has helped the buy side branch out

The buy side is now looking to more traditional liquidity providers as well, with the average number of meaningful dealer relationships up 20%

INVESTMENT-GRADE CREDIT INVESTORS



Note: Based on 111 responses from investment-grade credit investors in the United States. Source: Greenwich Associates 2017 U.S. Fixed-Income Study

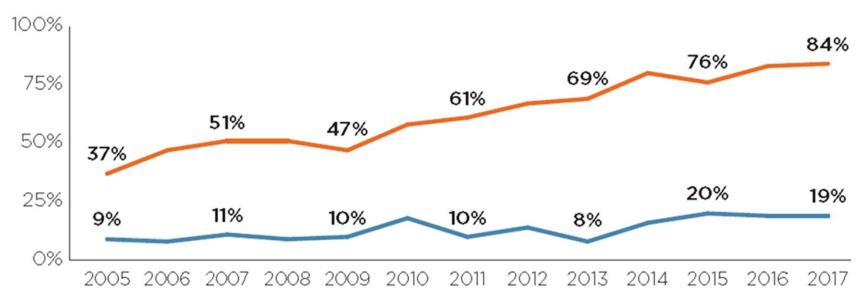
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Investment grade e-trading is maturing

Investors are adopting electronic trading, and electronic tools and venues are rapidly maturing

INVESTMENT-GRADE CORPORATE BONDS



Percent trading online

Percent of total market volume traded online

Note: Based on 115 responses in 2005, 107 in 2006, 147 in 2007, 132 in 2008, 141 in 2009, 146 in 2010, 124 in 2011, 121 in 2012, 123 in 2013, 104 in 2014, 105 in 2015, 102 in 2016, and 102 in 2017. Source: Greenwich Associates 2017 U.S. Fixed-Income Study

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Electronic Trading for Corporate Bonds

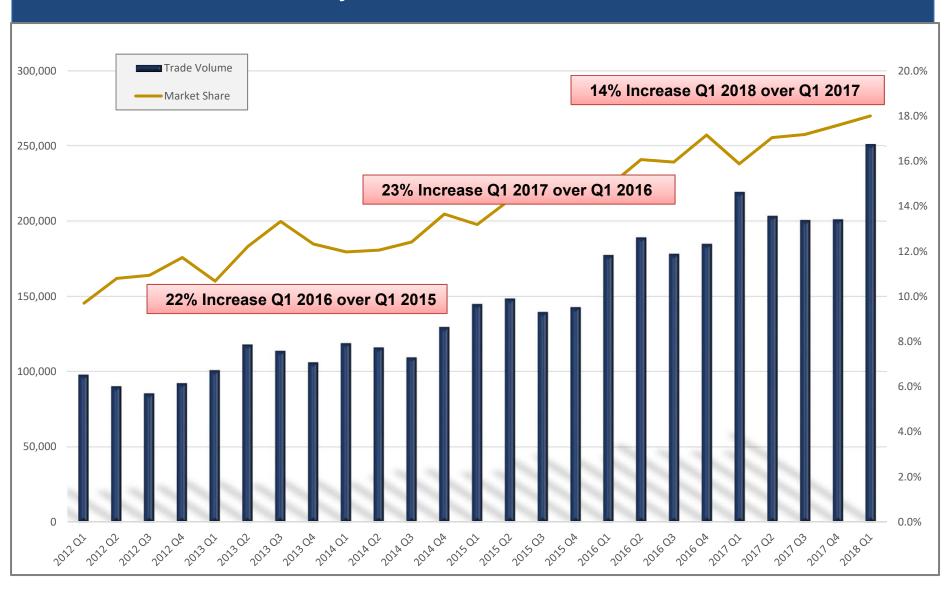
Most important factors when selecting a fixed-income trading venue

- 1. Price improvement
- 2. All-to-all trading
- 3. Dealer-provided pricing
- 4. Anonymous trading
- 5. OMS connectivity
- 6. Trading protocol flexibility
- 7. Access to new liquidity providers

Note: Based on 63 responses in 2017 and 46 in 2016. Other responses include volume on platform. Source: Greenwich Associates 2017 Market Structure and Trading Technology Study



MarketAxess Quarterly Market Share



A Powerful Network



A powerful network
More than 1,300
investors and dealers



Advanced features
State-of-the-art
technology



Greater source of global liquidity



Pre-2000

One to few

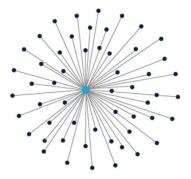
One investor (center blue) can trade with a few dealers over the phone.



Pre-Crisis

One to more

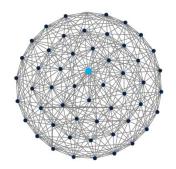
One investor can trade with up to 30 dealers on MarketAxess.



Crisis

One to many

MarketAxess expanded the liquidity pool to include over 90 major and regional dealers



Today

All-to-all

Open Trading allows global market participants to trade with over 1,300 investor and dealer firms.