

# **Financial Services Coverage**

**Capital Markets Sector Update** 

2019 YEAR IN REVIEW



### Leading Independent, Global Advisory Firm

Houlihan Lokey is the trusted advisor to more top decision-makers than any other independent global investment bank



1,300+ Employees

> 23 Offices

~45% Employee-Owned

~\$3 billion
Market Cap

~\$1 billion
Annual Revenue

No Debt

#### **Corporate Finance**

2019 M&A Advisory Rankings All U.S. Transactions					
1	Houlihan Lokey	184			
'	Houlinan Lokey	104			
2	Goldman Sachs & Co	167			
3	JP Morgan	141			
4	Morgan Stanley	122			
5	Evercore Partners	112			
Sour	Source: Refinitiv (formerly known as Thomson Reuters)				

No. 1 U.S. M&A Advisor

Top 10 Global M&A Advisor

Leading Capital Markets Advisor

#### **Financial Restructuring**

	19 Global Distressed Debt & Bank structuring Rankings	ruptcy
	Advisor	Deals
1	Houlihan Lokey	76
2	PJT Partners Inc	43
3	Moelis & Co	36
4	Lazard	29
5	AlixPartners	19
Sour	ce: Refinitiv (formerly known as Thomson Reuters)	

No. 1 Global Restructuring Advisor

**1,000+** Transactions Completed Valued at More Than \$2.5 Trillion Collectively

#### **Financial and Valuation Advisory**

	00 to 2019 Global M&A Fairness visory Rankings					
	Advisor	Deals				
1	Houlihan Lokey	1,057				
2	JP Morgan	929				
3	Duff & Phelps	734				
4	Morgan Stanley	621				
5	Bank of America Merrill Lynch	612				
	Refinitiv (formerly known as Thomson Reuters). Announced or completed transactions.					

**No. 1** Global M&A Fairness Opinion Advisor Over the Past 20 Years

1,000+ Annual Valuation Engagements

North	America	Europe and I	Middle East	Asia-P	acific
Atlanta	Miami	Amsterdam	Madrid	Beijing	Sydney
Chicago	Minneapolis	Dubai	Milan	Hong Kong	Tokyo
Dallas	New York	Frankfurt	Paris	Singapore	
Houston	San Francisco	London			
os Angeles	Washington, D.C.				

### A Leading Advisor to the Capital Markets Sector

Houlihan Lokey is the **undisputed industry leader in broker-dealer and capital markets technology advisory** with deep domain knowledge and entrenched relationships with marquee clients

No. 1 Advisor to the capital markets sector cumulatively over the last 1-, 3-, 5-, 7-, and 10-year period...

...with extremely strong current momentum and an extensive track record advising on industry-transforming deals that spans more than two decades...

# 2010-2019 M&A Advisor Rankings All Capital Markets<sup>(1)</sup> M&A Globally

AII	All Capital Markets" M&A Globally					
Rank	Advisor	Deals				
1	Houlihan Lokey, Inc.	38				
2	Bank of America Securities	30				
3	J.P. Morgan Securities LLC	28				
4	Piper Sandler & Co.	27				
4	Berkshire Global Advisors LP	27				
6	Barclays Capital Inc.	25				
7	Morgan Stanley	24				
7	Goldman Sachs & Co. LLC	24				
9	Credit Suisse (USA) Inc.	23				
10	Raymond James & Associates, Inc.	22				
Source	e: SNL Financial					
Broke	(1) Includes transactions classified by SNL as "Investment Banks, Brokers and Capital Markets", "Financial Exchanges" or "Investment and Capital Markets Technology"					

Refer to Pages 8–9 for Houlihan Lokey's additional transaction experience in the capital markets sector

#### **Select Transaction Experience**

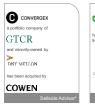










































Tombstones included herein represent transactions closed from 2012 forward.

<sup>\*</sup> Selected transactions were executed by Houlihan Lokey professionals while at other firms acquired by Houlihan Lokey or by professionals from a Houlihan Lokey joint venture company.

### Capital Markets Sector Coverage Overview

- Houlihan Lokey is the undisputed market leader in capital markets sector advisory to both the traditional and technological segments of the market
  - 75+ dedicated FIG and fintech bankers representing one of the industry's largest and most active coverage groups
  - 150+ broker-dealer and fintech transactions across both M&A and capital raising completed since 2010 (1)
  - Diversified and highly complementary industry expertise with a unified and collaborative approach
  - Specialized market knowledge and wellversed in nuances across various subsectors and business models
- In December 2019, Houlihan Lokey announced the acquisition of Freeman & Co. to significantly enhance its financial services industry coverage
  - Combined platform provides for a dedicated coverage team in every vertical of the financial services industry
  - Follows the 2018 acquisition of Quayle Munro and its European financial institutions team, further scaling the value proposition and depth of talent we offer to our clients globally

#### **Industry-Leading Capital Markets Sector Coverage** Integrated global team built to advise all platforms and clients, internationally **Broker-Dealers Capital Markets Tech Core Capital Markets** Led by Houlihan Lokey's Led by FinTech team across Financial Institutions Houlihan Lokey's Financial Coverage Institutions and Data & Group Analytics Groups ✓ Global Technology and Software Team Complementary Industry ✓ Global Data and Analytics Team Coverage √ Global Business Services Team ✓ M&A √ Financial Sponsors Coverage **Full Suite of** ✓ Debt and Equity Capital ✓ GP and LP Fund Advisory **Products and** Markets **Services** √ Valuation and Fairness √ Financial Restructuring **Opinions**

### Financial Services Expertise and Capabilities

# **Dedicated Financial Institutions Group**

- Based out of New York and London with additional offices in Los Angeles and Miami
- Long-term, relationship-driven approach toward clients; senior participation on all engagements
- 65+ dedicated FIG professionals

# **Extensive Industry and Transaction Experience**

- Asset Management
- Broker-Dealers
- Commercial Finance
- Consumer Finance
- Depositories
- Financial Technology
- Insurance
- Mortgage and Real Estate
- Specialty Finance

#### M&A

- Among the most active M&A advisor to the broker-dealer, insurance, mortgage, and specialty finance industries
- Extensive experience in the asset management, commercial finance, consumer finance, and depository industries
- No. 1 M&A advisor across all industries for deals under \$1.0 billion for the last eight years
- Broadest financial sponsors coverage platform, with active coverage of more than 900 private equity firms and 250 hedge funds

#### Capital Markets

- Experienced and sophisticated capital markets team provides independent advice
- Provides access to senior debt, private mezzanine capital, high yield, public and private equity, hedge funds, and other institutional investors by leveraging broad relationships

#### Secondary Markets

- Dedicated team serving illiquid secondary markets for portfolios of financial assets
- Experience with a variety of clients, assets, and capital sources resulting in a comprehensive transaction platform
- Loan portfolio analysis and valuation for banks, as well as sales of loan portfolios, MSRs
- Close working relationships with regulatory agencies and regulatory counsel via loan valuation and asset sale assignments

#### Restructuring

- Leading restructuring advisor with a dominant position for the last decade
- Advised on the largest FIG restructurings (Lehman Brothers, CIT Group, ResCap, Thornburg Mortgage, Refco, and Taylor Bean)

#### Valuation

- No. 1 Global M&A Fairness Opinion Advisor Over the Past 20 Years
- Extensive experience with bank asset valuations and special situation advisory for distressed bank transactions
- Structured products team specializes in valuing complex structured investments
- Cutting-edge proprietary modeling and information-gathering technologies combined with access to real-time trading activity across the full spectrum of credit asset classes

### **Experienced Capital Markets Sector Coverage Team**

Significant senior coverage expertise with relationships spanning the capital markets sector



Reinhard Koester
Group Co-Head
New York



Gagan Sawhney
Managing Director
New York



Chris Pedone Director New York



Matt Capozzi Vice President New York



Jeff Levine Group Co-Head Miami



Mark Fisher
Managing Director
London



Tim Shortland
Managing Director
London



David Sola

Managing Director

London

### Global FIG and Fintech Coverage Team

#### One of the industry's deepest senior teams



North American Coverage Officers



Jeff Bollerman Managing Director



Pat Collins\*
Managing Director



Mike McMahon Managing Director



**Craig Muir**Managing Director



**Jimmy Page**Managing Director



**Arik Rashkes**Managing Director



Craig Tessimond
Managing Director



**Eric Weber**Managing Director



Brent Ferrin Director



Rob Freiman Director



**Kegan Greene**Director



Juan Guzman
Director



Sam Kramer Senior VP



Rob Losquadro Senior VP



Rich Saltzman Senior VP



Faiz Vahidy Senior VP



Matt Cornish Vice President



Chuck Hibbs Vice President



Justin Resnick
Vice President



Aaron Solomon Vice President



Jim Freeman Senior Advisor



**Officers** 

Johnny Colville\*
Managing Director



Christian Kent Managing Director



Lawrence Guthrie
Managing Director



Zam Khan Managing Director



Paul Tracey Director



Yashin Mody Senior VP

### **Transaction Experience**

### Traditional Investment Banks, Broker Dealers, and Advisory Firms

Houlihan Lokey is the undisputed industry leader in broker-dealer advisory with more than 10 deals closed since 2019 alone









































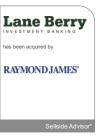


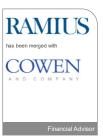






















### **Transaction Experience**

### Capital Markets Technology

Houlihan Lokey has a long history advising investment and capital markets technology companies with exceptionally strong momentum

































































# **Deal Activity Update**

## **Sector Landscape**

Fintech Subsector	Description	Four-Year Deal Count (2016 to 2019)
Diversified and Full-Service Broker-Dealers	Firms with services across investment banking, capital markets, securities/brokerage, and more	60
Institutional Research, Sales, and Trading	Research, sales, and trading firms with limited advisory and other financial services	93
Boutique Investment Banks and Advisory Firms	Independent financial advisory firms without capital markets/research, sales, and trading	163
Electronic Trading/Risk Systems and Software	Online trading platforms and electronic trade risk analytics/services	400
Exchanges and Other Trading Venues	Securities and other asset class trading venues and liquidity platforms	140
Capital Markets Workflow and Infrastructure	Diversified trading infrastructure and financial data delivery services	250
Post-Trade, Processing, and Clearing	Settlement, clearing, custody, and other post- trade functionality	93
Asset and Fund Servicing	Diversified back-office support services for investment managers	205

### **Deal Activity Trends**

#### The Allure of Technology

Strategics and sponsors alike continue to eagerly acquire and invest in fastgrowing disruptors across the capital markets space

#### Pressures on Legacy Models

Regulatory change, shrinking commission pools, and a refined focus on execution quality have constrained more traditional business models



#### **Competitive Tensions**

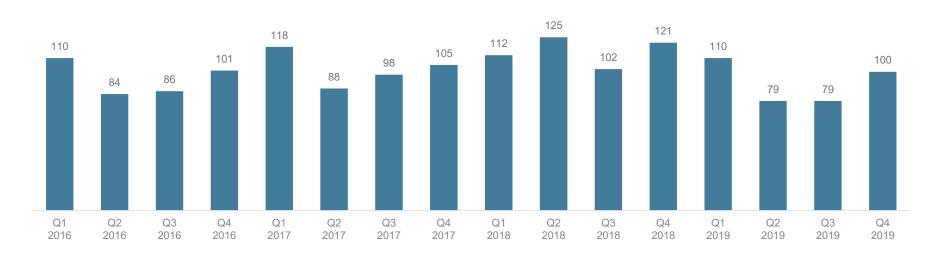
Strong valuations, heightened investment, and pressure to match peer offerings have led to increased tensions among both the industry's firms and investors

#### The Bull Market Arms Race

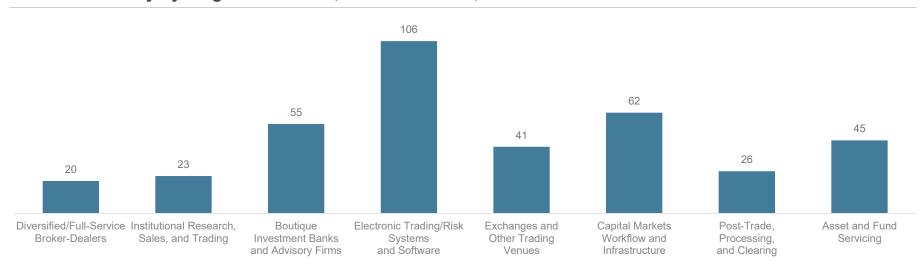
Commercial banks and others who shed capabilities during the financial crisis are rapidly expanding back into new tech and investment banking offerings

### **Deal Activity Summary**

#### Quarterly Deal Activity (Announced Deal Count)



#### 2019 Deal Activity by Target Subsector (Announced Deal Count)



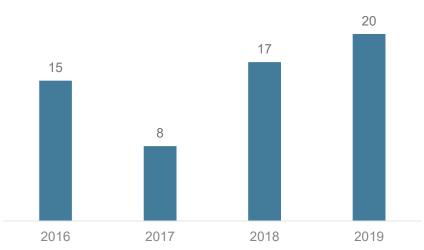
### **Diversified and Full-Service Broker-Dealers**



#### **Market Commentary**

- With demand for new issues strong across equity, FI, and muni markets, acquirers have prioritized origination capabilities
- Public finance consolidation was a particular bright spot, with muni issuance surging through 2019 in a regionally fragmented and very competitive landscape
- Industry specialization has also been a key priority for acquirers—many 2019 deals involved single-sector targets, including FIG specialists Sandler O'Neill and FIG Partners
- As bulge brackets either lose relevance or focus upmarket, the timing remains favorable for middle-market IBs and commercial banks to gain share in banking and markets through acquisitions

#### **Announced Deal Count** (1)



Month	Target	Acquirer/ Investor	Deal Value	Percent Acquired	Target Focus
Mar.	FIG	Janney		100%	Financial Institutions
Mar.	Stockdale 🗪	SHORE CAPITAL  CAPITAL MARKETS	\$12M	100%	U.K. Small- and Mid- Cap Full-Service
Apr.	WELLSNELSON&ASSOCIATES	D A DAVIDSON		100%	Public Finance
June	GMP Capital Markets	STIFEL	\$52M	100%	Canadian Investment Banking and Markets
July	SANDLER O'NEILL+ PARTNERS	Piper Jaffray	\$600M	100%	Financial Institutions
Sep.	George K. Baum & Company	STIFEL		100%	Public Finance
Oct.	THEWILLIAMS CAPITAL GROUP	Siebert Cisneros Shank&fite		Merger	Public Finance/ Investment Banking
Nov.	Goodbody	● 中国銀行 BANK OF CHINA	\$166M	100%	Irish Full-Service Capital Markets
Nov.	LADENBURG THALMANN ESTABLISHED 1876	A3 Advisor Group	\$1.3B	100%	Full-Service Retail and Institutional
Dec.	Dougherty & Company llc	Colliers		100%	Municipal and Mortgage Bonds

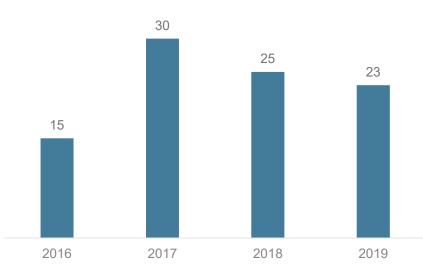
### Institutional Research, Sales, and Trading



#### **Market Commentary**

- Trading-oriented broker-dealers have been under pressure: commission wallets and research budgets are declining, while expectations for execution quality and proprietary insight rise
- Consolidation has generally served as a tool for reducing costs to adapt to the new lower-margin world
- Acquisitions of Green Street, G.Research, and Redburn demonstrate the lasting value of niche, differentiated research in a post-MiFID II environment
- Turmoil also breeds opportunity, with a few forward-thinking brokers vacuuming up S&T talent and doubling down on execution capabilities

#### **Announced Deal Count** (1)



Month	Target	Acquirer/ Investor	Deal Value	Percent Acquired	Target Focus
Jan./ Dec.	Tellimer	INTL FCStone		100%	Commodities/ Emg. Mkt. Equities
Jan.	CSC COMMODITIES V	Marex Spectron		100%	Commodities/ Energy
Feb.	Weeden&co	Piper Jaffray	\$74M	100%	Institutional Equities
June	Green Street Advisors	WCAS		Maj.	REIT Research
June	BANNOCKBURN GLOBAL FOREX LLC	first financial bancorp	\$110M	100%	Foreign Exchange Hedging
July/ Oct.	STOCKCROSS FIRANCIAL SERVICES  Weeden Prime Services	SIEBERT	\$28M/ \$7M	85%/ 100%	Retail Brokerage/ Prime Broker
July	REDBURN	<b>X</b> Rothschild & Co		Min.	U.K. Equity Research
Aug.	*BARCLAYS Eq./Op. Mkt Making	<b>∌GIS</b>		100%	Equities/Options Market-Making
Sep.	Deutsche Bank Prime Services	BNP PARIBAS		100%	Equities Prime Brokerage
Nov.	RESEARCH	Morgan Group	\$19M	100%	Small- and Mid-Cap Equity Research
Nov.	JCRA <sup>⊕</sup>	Chatham		100%	U.K. Derivative and Debt Hedging
Dec.	<b>ÉLCII</b> LOUIS CAPITAL MARKETS	TP	\$44M	100%	Institutional Multiasset

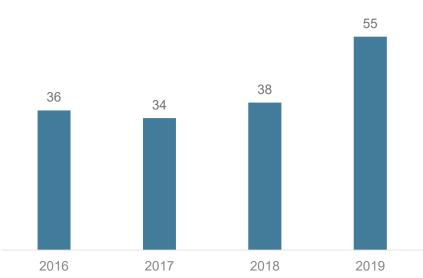
### **Boutique Investment Banks and Advisory Firms**



#### **Market Commentary**

- As M&A fee pools experience continued growth, buyers have rushed to add highly profitable advisory capabilities
- Mid-market investment banks are making acquisitions to fill industry coverage gaps, while universal banks are seeking to diversify away from interest-based business lines
- A massive cohort of M&A boutiques formed in the wake of the financial crisis are now reaching critical mass and becoming ideal acquisition targets
- Interest has centered on boutiques with true sector expertise, upmarket client focus, institutionalized management, and diversified productivity

#### **Announced Deal Count** (1)



Month	Target	Acquirer/ Investor	Deal Value	Percent Acquired	Target Focus
Feb.	PetskyPrunier NVESTATENT BANKETS	cg/Canaccord	\$85M	100%	Technology, Media, and Marketing
Feb.	BOWSTR	XX Citizens Financial Group, Inc.		100%	Healthcare and Business Services
Feb.	B S P BANKS STREET PAIRTNERS	PERFORMANCE TRUST.		100%	Financial Institutions
Apr.	MOORELAND	STIFEL		100%	Technology
May	RIVERON	H. I. G.		Min.	M&A Support Services
May	MERCURY CAPITAL MADVISORS	INVESTCORP		100%	Fund Placement
June	Teneo	CVC	\$350M	50%	Consulting and Strategy
July	CLEARY GULL	CIBC		100%	Generalist
July	LOUGHLIN MARGEMENT PATTMESS-CO	BDO		100%	Restructuring and Turnaround
Aug.	Kipps De Santo	Capital One		100%	Aerospace/Defense and Gov't Services
Dec.	greentech capital advisors	NOMURA	\$92M	100%	Sustainable Infrastructure
Dec.	LionTree	RIT Capital Partners plc	\$42M	Min.	Technology, Media, and Telecom

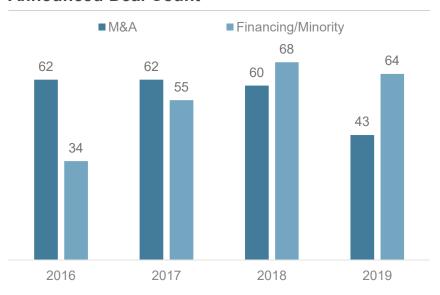
### **Electronic Trading/Risk Systems and Software**



#### **Market Commentary**

- Most active subsector in 2019, accounting for more than onethird of all capital markets technology activity
- Following a historic year in 2018 in terms of extremely large transactions, 2019 activity remained robust despite the lack of mega-deals aside from Refinitiv's \$27 billion acquisition by the London Stock Exchange Group
- Deal activity was driven by systems and software focused on non-equities asset classes, as these markets experience increased electronification

#### **Announced Deal Count**



Month	Target	Acquirer/ Investor	Deal Value	Percent Acquired	Target Focus
Jan.	MARIANA SYSTEMS	BLACK MOUNTAIN		100%	Credit
Mar.	BID <sub>EX</sub>	SGX≣	\$25M	20%	FX
Apr.	Allegro	ION	\$435M	100%	Commodities
Apr.	BARRACUDAFX	BROADWAY		100%	FX
May	BLACK MOUNTAIN	V I S T A EQUITY PARTNERS	>\$500M	100%	Credit
May	<b>Q</b> QuantHouse	<i>i</i> ress	\$45M	100%	FX
May	VISOTECH	TMX / TRAYPO	RT	100%	Commodities
May	ALPHADESK	REFINITIV 🔫		100%	Diversified
June	1 oneZero	LMP LOVELL MINNICK PARTNERS		Min.	FX
Aug.	REFINITIV 🔫	London Stock Exchange	\$27.0B	100%	Diversified
Nov.	BRADY.	HANOVER	\$10M	100%	Commodities
Nov.	MarketFactory	10 N		100%	FX

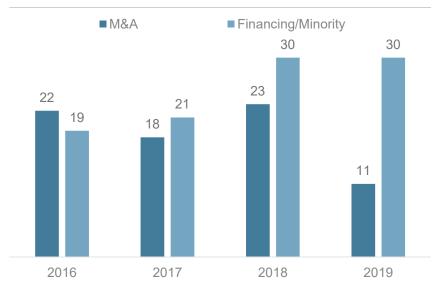
### **Exchanges and Other Trading Venues**



#### **Market Commentary**

- Larger exchanges maintain inorganic expansion strategies while looking to add multijurisdictional scale as well as add new asset classes to a growing list of core competencies
- Several startup trading systems emerged with the backing of consortiums of leading firms seeking to disrupt traditional market structure
- Crypto-focused venues saw robust activity in 2019, accounting for nearly 50% of transactions in the subsector, as the asset class gradually institutionalized

#### **Announced Deal Count**



Month	Target	Acquirer/ Investor	Deal Value	Percent Acquired	Target Focus
Jan.	MEM Kenbers Exchange	Consortium	\$70M	Maj.	Equities
Feb.	Forge	BNP PARIBAS  Munich RE	\$85M	23%	Private Equities
May	TRUMID	HILHOUSE	\$60M	Min.	Credit
May	the SMALL exchange	CITADEL  JumpCapital	\$10M	25%	Futures
May	<b>One</b> Chronos	RisingTide	\$9M	29%	Equities
May	<b>©MIAX</b>	Consortium		Min.	Options
May	MAXEX	AGNC		Min.	Residential Mortgages
June	OSLO BØRS	<b>EURONEXT</b>	\$863M	100%	Regional
Aug.	LIQUIDITY EDGE	X Market Axess	\$150M	100%	Treasuries
Nov.	Nasdaq Futures	<b>&gt; eex</b> Deutsche Borse		100%	Commodities Futures
Nov.	ESX	<b>©MIAX</b>		100%	Regional
Dec.	NORD POOL	<b>EURONEXT</b>	\$61M	66%	Commodities

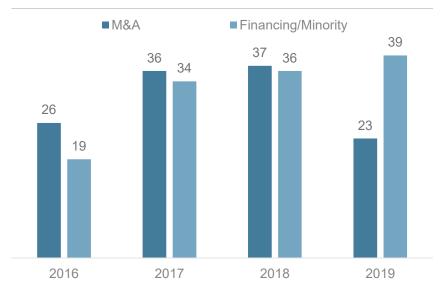
### **Capital Markets Workflow and Infrastructure**



#### **Market Commentary**

- Subsector has remained highly active, with firms seeing increased demand from the continued electronification of trading across asset classes
- Firms such as Bloomberg, Citi, and Moody's continue to invest in firms that provide more granular trade lifecycle data and analytics to the investment management community
  - Demand for cost-effective solutions for asset managers continues to be at the forefront of thought for strategic investors as they attempt to gain scale and appeal to larger blue-chip client bases

#### **Announced Deal Count**



Month	Target	Acquirer/ Investor	Deal Value	Percent Acquired	Target Focus
Apr.	SOLARFLARE*	<b>E</b> XILINX		100%	Trading Infrastructure
May	SYMPHONY	MUFG Standard Chartered	\$165M	12%	Capital Markets Communications
May	openfin	WELLS FARGO	\$17M	20%	Capital Markets Operating System
May	Chart <b>IQ</b>	cîti	\$15M	Min.	Data Processing and Visualization
May	RSRCHXCHANGE	Liquidnet		100%	Research Management
June	MACKEYRMS	RESURCENS TECHNOLOGY PARTNERS		Min.	Research Management
July	Corvil	PICO.		100%	Trading Analytics
July	NetXpress	Transaction Network Services		100%	Trading Infrastructure
Aug.	Regick	Bloomberg		100%	Trade Reporting and Compliance
Sep.	SELERITY	dealogic		100%	Unstructured Data Processing
Oct.	<b>Deloitte.</b> ABS Suite	Moody's		100%	Structured Product Issuance Software
Dec.	GREENWICH	CRISIL An S&P Global Company	\$40M	100%	Capital Markets Consultancy

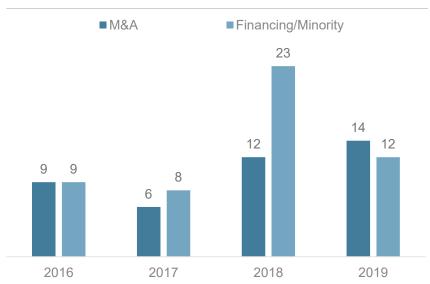
### Post-Trade, Processing, and Clearing



#### **Market Commentary**

- Financial market infrastructure participants continue their desire to enhance service capabilities, expand asset class coverage, and position themselves throughout the transaction lifecycle, specifically in the post-trade sector
- The rise of Al-enabled risk reporting and collateral management has caused disruption among traditional players, leading to a desire to bring independent technology providers in-house
- Majority transactions remain on an upward trend, while VC/ minority investments have slowed from a record-setting 2018

#### **Announced Deal Count**



Month	Target	Acquirer/ Investor	Deal Value	Percent Acquired	Target Focus
Jan.	euroclear	London Stock Exchange	\$318M	5%	Traditional Clearing and Settlement
Feb.	<b>APEX</b>   Clearing <sup>™</sup>	SoFi		Min.	Equities Clearing and Custody
Mar.	কু pirum	© BOWMARK CAPITAL		Maj.	Post-Trade Reconciliation
Mar.	Meritsoft	Cognizant		100%	Post-Trade Reconciliation
May	ROCKALL COLLITERL MANAGERS IT TICHNOLOGY	<b>Broadridge</b>		100%	Collateral Management
July	GBST,	FNZ	\$225M	100%	Diversified Post- Trade Processing
Sep.	<b>ETC</b>	<b>APEX</b>   Clearing <sup>™</sup>		100%	Equities Clearing and Custody
Oct.	SHADOW FINANCIAL SYSTEMS	<b>Broadridge</b>	\$39M	100%	Diversified Post- Trade Processing
Oct.	<b>ENSO</b>	HAZELTREE		100%	Prime Brokerage Portfolio Analytics
Oct.	HAZELTREE	IHS Markit		Min.	Treasury Managemen Software
Nov.	<u></u> CAPITOLIS	SPARK CAPITAL	\$41M	20%	Trade Compression Software
Dec.	EuroCCP	C*boe	\$40M	80%	Traditional Clearing and Settlement

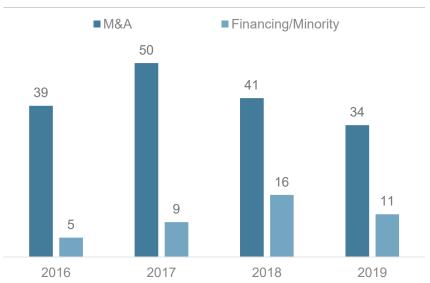
### **Asset and Fund Servicing**



#### **Market Commentary**

- Activity has been amplified by the trend toward outsourcing, primarily driven by increasing regulatory costs and complexities within the investment management space
- A vast majority of transactions have been majority acquisitions by strategic buyers, primarily non-bank strategics and PEbacked players, seeking to consolidate smaller players and provide complementary services on a single platform
- Firms focused on servicing the private markets have attracted the most interest from acquirers and premium valuations

#### **Announced Deal Count**

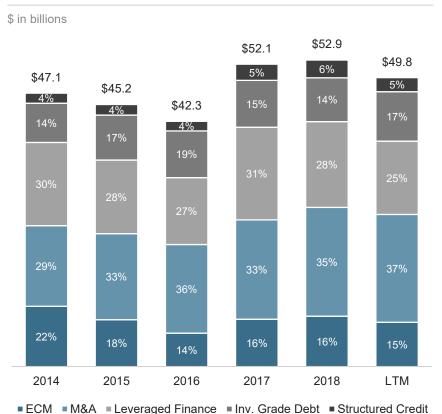


Month	Target	Acquirer/ Investor	Deal Value	Percent Acquired	Target Focus
Jan.	MILLENNIUM TRUST COMPANY <sup>4</sup>	ABRY	\$1.8B	Maj.	Trust Administration and Custody
Jan.	Prime Clerk	Duff&Phelps		100%	Bankruptcy Administration
Feb.	Solium	<b>Morgan</b> Stanley	\$900M	100%	Cap Table Management
Mar.	<b>© CIN</b> group	<b>=</b> STRETTO	\$215M	100%	Bankruptcy Administration
Mar.	IRA SERVICES TRUST COMPANY	Forge	\$55M	100%	Trust Administration and Custody
May	carta	ANDREESSEN HOROWITZ	\$318M	20%	Cap Table Management
June	VITEOS	Intertrust	\$330M	100%	Tech-Enabled Fund Servicing
July	<b>☆</b> ESTERA	OCORIAN	\$692M	100%	Offshore Fund Administration
Aug.	LEVERPOINT	LULTIMUS,		100%	Private Fund Administration
Oct.	VIRTUS PARTNERS	Fis	\$575M	100%	Credit Fund Administration
Oct.	funds BANK	BNP		22%	Fund Distribution
Nov.	quasar Solvan II.	FORESIDE		100%	ETF and Mutual Fund Distribution

# Focus Area: Middle-Market Investment Banking

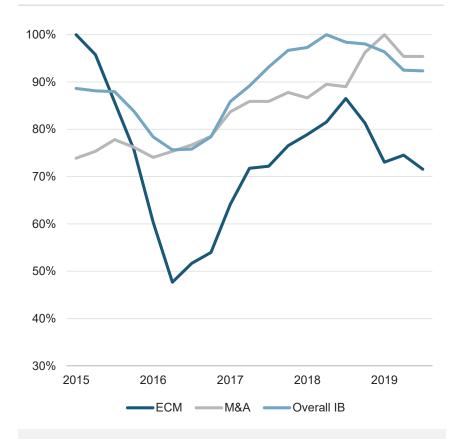
### **U.S. Investment Banking Market Dynamics and Opportunity**

#### U.S. Investment Banking Fee Pool by Product (1)



- U.S. IB fee pool reached record levels in 2018 and has since pulled back slightly as leveraged finance fees decelerated
- ECM typically comprises 15–25% of the fee pool and currently sits at the low end despite 2019's buoyant stock markets

#### ECM and M&A Fee Pool Volatility vs. Overall IB Fee Pool (2)



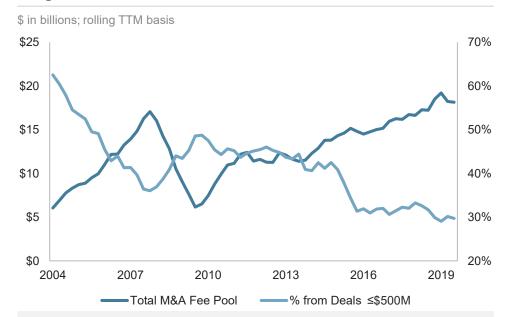
- Compared to other IB lines, ECM tends to be a volatile, openand-shut market, requiring long-term institutional commitment
- By contrast, M&A fee pools have been relatively stable through business cycles, particularly in the middle market

Source: All IB fee analysis based on estimates from Freeman Consulting Services and transaction information from Refinitiv

<sup>1)</sup> LTM as of 9/30/19

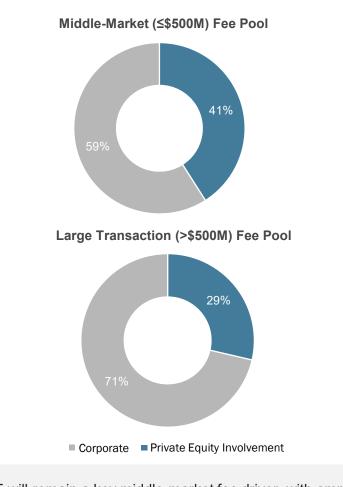
#### **M&A Fee Pool Drivers**

#### Long-Term Historical M&A Fee Pool Trend



- Strong macroeconomic conditions, record stock markets, inexpensive debt financing, and shareholder support have supported M&A growth
- Inverse relationship between the overall fee pool (now at a record high) and the role of the middle market (now at a record low)
- Recent growth has come almost entirely from large-scale deals, but the middle market is more stable and historically outperforms during bear markets
- The middle market currently represents approximately 30% of LTM fees but 95% of deal count—and middle-market fees are likely understated significantly due to data coverage limitations

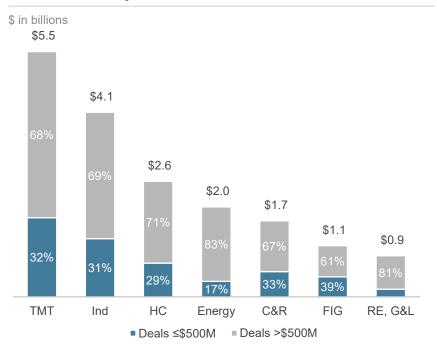
#### Role of Private Equity (1)



PE will remain a key middle-market fee driver, with ample dry powder and less competition from strategics for smaller assets

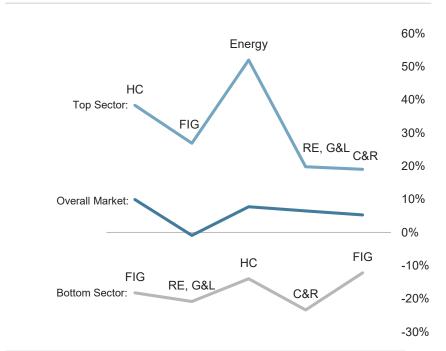
### **M&A Segment Comparisons**

#### LTM Fee Pools by Sector (1)



- With sanguine market conditions, overall U.S. M&A fees have grown at a 5–10% YoY pace for the last several years
- Each sector has undergone periods of outperformance and underperformance over just the last three years
- Advisory franchises need diverse coverage to avoid being subject to market-driven volatility

#### YoY Fee Pool Growth by Sector (2)



Industry	2015	2016	2017	2018	LTM
TMT	+15%	+19%	+1%	+15%	+12%
Industrials	+5%	-9%	+17%	+19%	-3%
Healthcare	+38%	-16%	-14%	+13%	+6%
Energy	-2%	-8%	+52%	-17%	+8%
Con. and Retail	-3%	+5%	+14%	-23%	+19%
Financials	-18%	+27%	-1%	+4%	-12%
RE, G&L	+22%	-21%	0%	+20%	-10%
Total Market	+10%	-1%	+8%	+6%	+5%

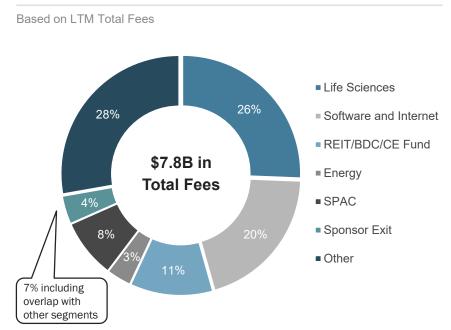
Source: All IB fee analysis based on estimates from Freeman Consulting Services and transaction information from Refinitiv

<sup>(1)</sup> LTM as of 9/30/19

<sup>(2)</sup> Calculated on a rolling TTM basis

### **ECM Fee Pool Drivers**

#### **U.S. ECM Fee Pool by Segment**



- Unlike M&A, ECM fee pools are consistently driven by a relatively concentrated set of market drivers
- Life sciences and software/internet comprise approximately 45% of the fee pool and an even larger share of IPO fees (50%)
- For competitors in the ECM market, there are fewer viable avenues of attack than in the more-diverse M&A market
- "Other" ECM activity above primarily includes M&A financings, corporate asset spinoffs, and foreign company listings

#### **Short- and Long-Term ECM Growth by Segment**

Segment	Short-Term Growth (YoY) <sup>(1)</sup>	Long-Term Growth (vs. 5-Year Average) <sup>(2)</sup>
Life Sciences	-19%	-20%
Software and Internet	-7%	+140%
REIT/BDC/CE Funds	+52%	-24%
Energy	-45%	-80%
SPACs	+28%	+227%
Sponsor Exits	-20%	-73%
Overall ECM Market	-17%	-20%

<sup>(1)</sup> Year-over-year growth calculated as change between 12 months ending 9/30/19 and 12 months ending 9/30/2018

<sup>(2) 5</sup>Y Averages calculated over the period of 2015-2019 using a 9/30 year end

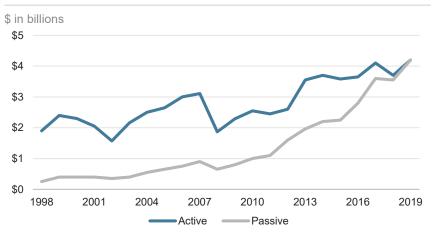
# Focus Area: Research, Sales, and Trading

### **Challenging Conditions for the Buyside**

#### **Market Commentary**

- Asset and wealth managers are facing fee and revenue pressures due to these factors:
  - Investor preference for passive strategies shifting assets into funds with lower fee structures
  - Within passive funds, management fees are also trending downward
- Passive investing is seen as the greatest challenge to buyside, with passive AUM matching active AUM for the first time ever
- Fee compression eventually hits the intermediary portions of the chain, creating reluctance to pay for sellside services like research

#### Active vs. Passive U.S. Equity Fund AUM

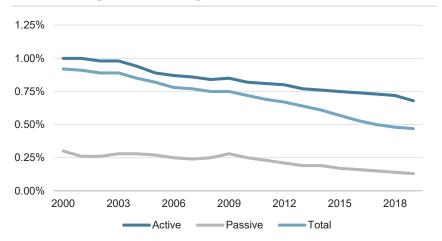


#### **Biggest Challenges Facing the Buyside**

Based on a survey of buyside professionals



#### **Asset-Weighted Average Fees**

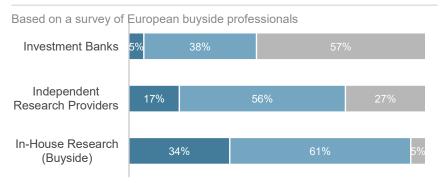


### Impact on the Sellside

#### **Market Commentary**

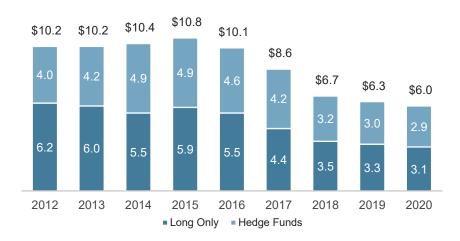
- Equity commission pool in long-term decline, down to \$6.3 billion in 2019 versus approximately \$11 billion in 2015
- Global sellside equity analyst headcount down 14% over the last four years
  - Top talent leaving for the buyside or exiting research space altogether
- Equities headcount down 7% between 2014 and 2018 across top 12 global banks
  - Additional exits in 2019 include Deutsche Bank (cutting half its 1,000 non-research equities employees) and Macquarie (exiting equities in the U.S. and Europe)

#### Research Sourcing Before and After MiFID II

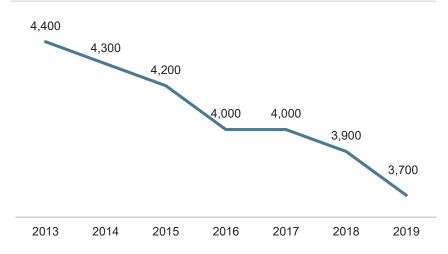


- Source Relatively More Research
- Source Relatively the Same Amount of Research/Not Sure

#### Total U.S. Equity Commission Pool (1)



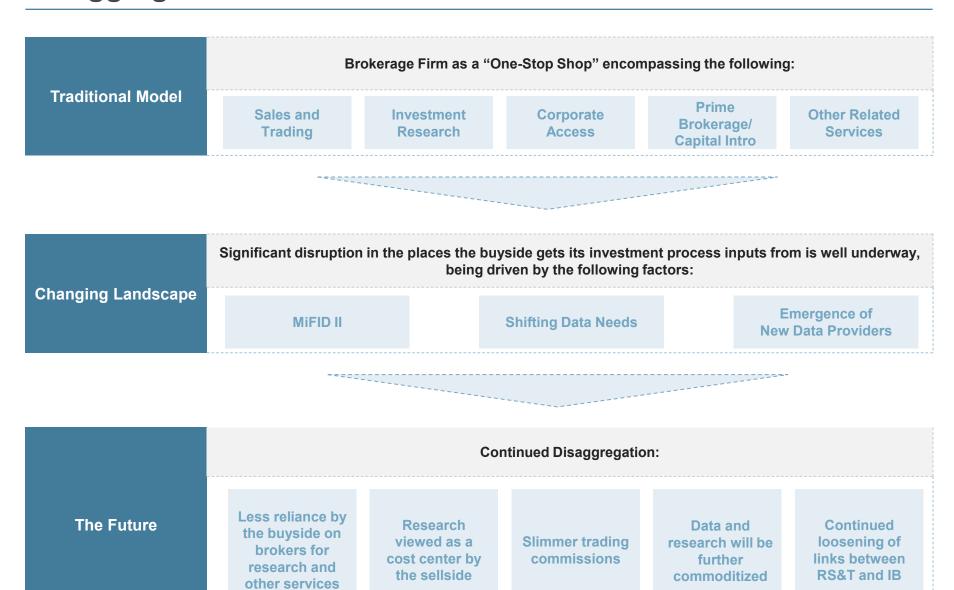
#### **Global Cash Equities Research Analyst Count**



#### Source

<sup>1)</sup> Greenwich Associates, Coalition Development, CFA Institute, TABB Group

### Disaggregation of the Sellside Research Function



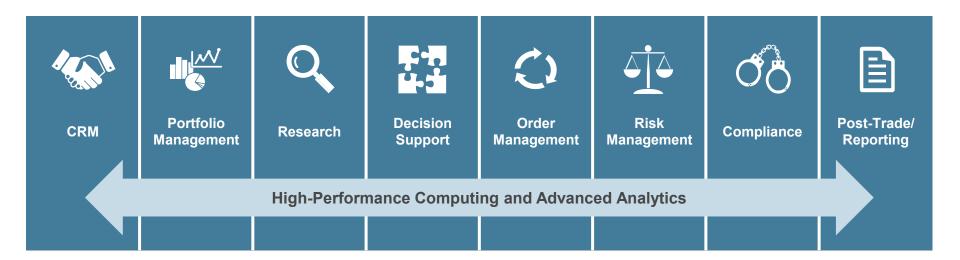
### **Evolving Competitive Landscape**

#### **Traditional Sellside Winners and Losers**

- Renewed buyside focus on measuring the value of research
  - Winners are providing differentiated content and/or insight into an under-covered investment niche
- Traditional mid-tier sellside providers losing ground
  - Market for traditional research content has evaporated for analysts ranked outside the top
- Non-brokerage, subscription-based business models winning out
  - Have been able to operate as-is post-MiFID II and make for uncomplicated acquisition targets

#### **Emerging Niche Tech-Based Solutions**

- Alternative data: Al/ML/NLP technologies continue expanding into investment research space
  - Buyside views predictive analytics as a complement to traditional stock picking (which is moving in-house)
- Private markets: As the line between public and private companies blurs, there is increasing demand for transparency into private companies, transactions, and funds
- Regulation: Growing opportunity to use quantitative screening and surveillance to navigate the ever-increasing compliance burden (KYC, AML, ESG, etc.)



### **Adding Value in the New Environment**

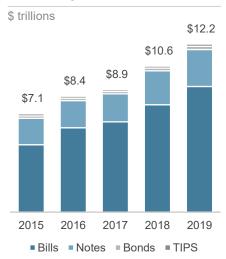


# Focus Area: Fixed Income

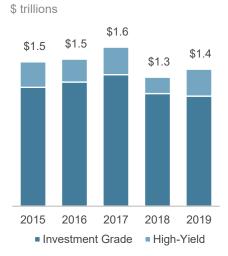
### **Fixed Income: Bond Market**

- Treasury, corporate bond, and MBS issuance rebounded from 2018 levels as interest rates declined through 2019, with further refinancing-driven upside potential in 2020 as rates plunge to historic lows
- Bonds have been further buoyed by strong growth among foreign investors as European and Asian funds seek positive interest rates in the U.S.
- Agency issuance has been supported by elevated mortgage origination levels across the purchase and refi segments, driven by rising employment levels and falling mortgage rates
- Uptick in Q1 corporate bond and MBS trading primarily due to increased market volatility weighing on equity investor portfolios

#### **Treasury Issuance**



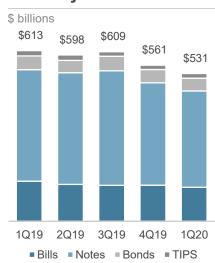
#### Corp. Bond Issuance



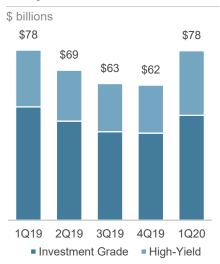
#### **MBS** Issuance



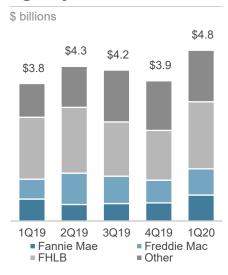
#### **Treasury ADTV**



#### Corp. Bond ADTV



#### **Agency MBS ADTV**



Source: SIFMA

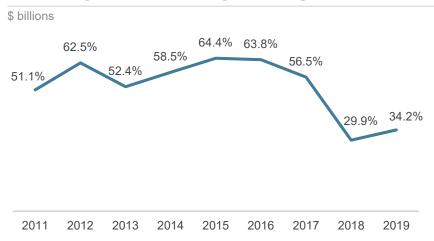
ADTV: Average Daily Trading Volume
Note: 1Q20 ADTV calculated as of 1/31/20

### **Fixed Income: Municipal Market**

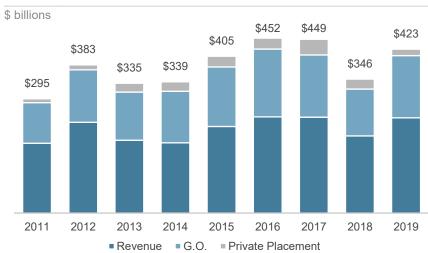
#### **Market Commentary**

- Municipal bond issuance rebounded from a guiet 2018 to \$423 billion in 2019, representing a steep 22% YoY increase
- Refundings remained near all-time lows since the Tax Cuts and Jobs Act of 2017 ended the tax break for tax-exempt advance refunding bonds
- However, new-money and taxable muni offerings surged during 2019, with a strong macroeconomy improving muni credit quality, an influx of international capital, and investors bracing for potential change in tax law post-elections
- ADTV has been very consistent over the last nine quarters

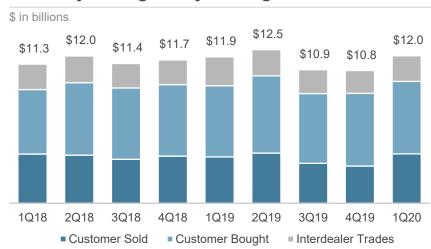
#### Refundings as a Percentage of Long-Term Issuance



#### **Municipal Bond Issuance**



#### **Quarterly Average Daily Trading Volume**



Sources: SIFMA

### **Fixed Income: Structured Finance Market**

#### **Market Commentary**

- Non-agency MBS markets reached a post-crisis high as investors search for yield in the late stages of the credit cycle
- ABS issuance climbed with a strong macro environment supporting consumer credit expansion and the rise of structures like whole-business securitizations
- With a volatile start to 2019, CLO spreads widened, resulting in a sharp decline in resets/refinancings, even as new issues remained close to the record levels of 2018
- Recent increases in non-agency RMBS issuance and the creation of TBA UMBS have helped to drive higher ADTV

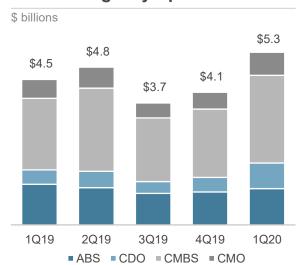
#### U.S. ABS Issuance



#### U.S. Agency and Non-Agency ADTV U.S. Agency Specific ADTV

#### \$ billions \$ billions \$306 \$301 \$257 \$255 \$255 \$254 \$250 \$250 \$241 \$237 1019 2Q19 3Q19 4Q19 1Q20 1Q19 2Q19 3Q19 4Q19 1Q20 ■ TBA ■ Specified Pool ■ CMO AgencyNon-Agency

#### **U.S. Non-Agency Specific ADTV**



Source: SIFMA, S&P

### Fixed Income Trading: Electronification and Shifts in Liquidity

#### **Changes in Market Structure**

- Higher demand for liquidity from market participants has led to an increased focus on electronification within fixed-income markets
- Electronic trading platforms have allowed for granular-level insights into transactional data, allowing for robust analytics compared to that of the legacy request-for-quote (RFQ) model
- The buyside is increasingly looking for new ways to generate alpha, in doing so, seeking greater access to liquidity, improved price discovery, and subsequently more automation and more low-touch electronic trading, to streamline their workflow

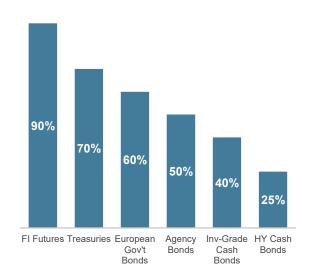
#### **Shifting Landscape of Market Participants**

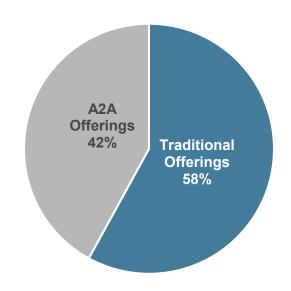
- Stark blurring of the lines between providers and takers due to the increased number of venues allowing for A2A trading
- Sellside banks are under increased competitive pressure from non-bank liquidity providers, some of which are able to provide streaming prices directly to their clients
- The market has 30+ operationally active electronic execution platforms providing greater liquidity for both the buyside and sellside

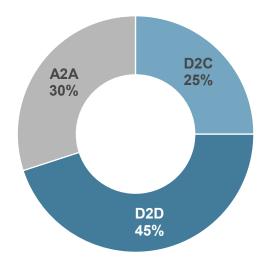
Percentage of Liquid Fixed-Income Securities Electronically Traded

**Electronic Trading Volume Breakdown** 

Percentage of Platforms Offering A2A Trading







Source: Institute of Financial Services Zug (IFZ)

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