

Securities / Capital Markets / Wealth Tech Market Analysis

FINANCIAL TECHNOLOGY PARTNERS

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Overview of FT Partners



- Financial Technology Partners ("FT Partners") was founded in 2001 and is the only investment banking firm focused exclusively on FinTech
- FT Partners regularly publishes research highlighting the most important transactions, trends and insights impacting the global Financial Technology landscape. Our unique insight into FinTech is a direct result of executing hundreds of transactions in the sector combined with over 15 years of exclusive focus on Financial Technology

FT Partners' Advisory Capabilities



FT Partners' FinTech Industry Research





Named Silicon Valley's #1 FinTech Banker (2016) and ranked #2 Overall by The Information



Ranked #1 Most Influential Person in all of FinTech in Institution Investors "FinTech Finance 35"



Numerous Awards for Transaction Excellence including "Deal of the Decade"





FT Partners Research - WealthTech



WEALTHTECH The Digitization of Wealth Management



ET Partners' 177-page report is an in-depth examination of the dramatic changes sweeping across the wealth management industry. The traditional investment management and registered investment advisor ("RIA") industries are facing numerous threats, and while firms in the industry recognize the need to respond, technology-driven innovation is not a core expertise of most RIAs and investment managers. Consequently, there has been a groundswell of FinTech companies bringing digital capabilities to the traditional wealth management industries. Collectively, we label this segment of FinTech as WealthTech.

Additional highlights of the report include:

- Visual WealthTech industry landscape including multiple sub-categories
- Exclusive interviews of CEOs at notable disruptive companies
- Proprietary list of financing and M&A transactions in the space
- Detailed company profiles of both private and public players



Selected FT Partners Securities / Capital Markets / Wealth Tech Transactions

M&A Transactions





Financing Transactions Financial Technology Partners LP FTP Securities LLC is pleased to announce its exclusive role as sole strategic and financial advisor to







FT Partners has advised on some of the most prominent and groundbreaking transactions in the Securities / Capital Markets / Wealth Technology sectors



FT Partners' International / Cross-Border Capabilities (Selected Examples)

2006	Target	Buyer / Investor	International Aspect
2016 - 2004 ANNUAL AWARDS	Cambridge _™	♥ FLEETCOR®	*
1&A Advisor Awards	Currencies Direct	Palamon Capital Statuers Corsair Capital	
2016 Cross Border	KUBRA	HEARST corporation	•
Deal of the Year	₽ oax	IPO	*
T Partners' global presence	Outsource Partners International	EXL	•
offers capabilities reaching far	chi-x	⊗ Bats	
peyond North America, as	CUSTOM HOUSE	WESTERN UNION	•
demonstrated by our numerous	TORA (SERVICES	Goldman Sacius Bank of America Merrill Lynch	
nternational lients and	Lynk	WorldPay	
successful transactions with	EISP	V I S T A EQUITY PARTNERS	•
nternational firms & investors	s um up	BBVA	<u> </u>
	VERUS	sage	
	CUANT	ViewPoint. Capital Partners.	+
	≅ Zephyr	informa	+



Significant Experience Advising Large Financing Rounds and "Unicorns"

FT Partners has a history of advising on some of the largest financing transactions in the FinTech space

Representing numerous FinTech "Unicorns" above \$1 billion valuations

Company	Amount Raised
MERCURY®	\$420,000,000+
GreenSky	300,000,000+
avidxchange	300,000,000
avidxchange	253,000,000
liquidnet.~~	250,000,000
sq ů are trade protection	238,000,000
nmi	150,000,000+
ADDEPAR	140,000,000
Kabbage Kabbage	135,000,000
Remitly	115,000,000
Tradingscreen SIMPLIFYING GLOBAL MARKETS*	110,000,000+
OYAPSTONE	110,000,000
CHROMERIVER	100,000,000
credit karma	85,000,000
earnest	75,000,000
taulia	65,000,000

Selected Prominent Investors in FT Partners Led Rounds
Accel DST VISA TPG
ICONIQ RCP REVERENCE CAPITAL PARTNERS WELLINGTON MANAGEMENT
BainCapital PRIVATE EQUITY Caisse de dépôt et placement
BainCapital VENTURES CIRC Great Hill
capitalG PARTNERS
nyca OFD Scotiabank®
KeyBank ING Ship DV/
乾源资本 yuan capital Battery Ventures BBVA
khosla ventures THIFI edbi
mastercard

QUESTMARK PARTNERS

SILVERLAKE

Trust Company of America's \$275 million Sale to E*TRADE

FT Partners Advises TCA on its Sale to E*TRADE



Overview of Transaction

- On October 19, 2017, Trust Company of America ("TCA") announced its sale to E*TRADE Financial Corporation ("E*TRADE") (Nasdaq: ETFC) for \$275 million in cash
- Headquartered in Denver, CO, TCA is a leading provider of technology solutions and custody services to independent RIAs, helping them scale operations, more effectively manage client relationships and focus on growing their practice
- E*TRADE is a leading financial services company and a pioneer in the online brokerage industry, offering easy-to-use solutions for individual investors and stock plan participants
- The transaction is expected to close in the second quarter of 2018

Significance of Transaction

- The acquisition will allow E*TRADE to tap into the growing RIA segment in the industry and bolster its ability to attract and retain customers in need of higher-touch services
- Leverages E*TRADE's brand to accelerate growth at TCA
- Creates additional upside opportunities over time through cross-selling of margin lending, securities-based lending, options, etc.

FT Partners' Role

- FT Partners served as exclusive strategic and financial advisor to TCA and its Board of Directors
- This transaction underscores FT Partners' successful track record generating highly favorable outcomes for leading WealthTech companies

Financial Technology Partners LP

is pleased to announce its exclusive role as sole strategic and financial advisor to



in its sale to



for a total consideration of

\$ 275,000,000



Moneyfarm's Acquisition of the Technology Behind Ernest

FT Partners Advises Moneyfarm on its Acquisition of Ernest



Overview of Transaction

- On October 6, 2017, Moneyfarm announced it has acquired the technology behind Ernest
 - Ernest is a personal banker chatbot, powered by Artificial Intelligence that combines natural language processing technology with machine learning, Ernest aims to help individuals manage their money better
- Headquartered in London, U.K., Moneyfarm is a digital wealth manager operating in both Italy and the U.K.
- Moneyfarm will work to combine Ernest's technology with its existing services

Significance of Transaction

- Ernest's technology has the ability to tap into daily transactional behavior of customers, which will prove critical as Moneyfarm works to provide more personalized financial advice
- Ultimately, the acquihire will enhance Moneyfarm's product, improve underlying algorithms and better assist customers through the entire wealth lifecycle

FT Partners' Role

- FT Partners served as exclusive strategic and financial advisor to Moneyfarm
- This transaction underscores FT Partners' successful track record of transactions in the WealthTech space

FIP Securities LLC

is pleased to announce its exclusive role as sole strategic and financial advisor to



in its acquisition of the technology assets of







Addepar's \$140,000,000 Series D Financing

FT Partners Advises Addepar on its Series D Financing



Overview of Transaction

- On June 8, 2017, Addepar announced it has raised \$140 million in Series D financing co-led by Harald McPike, the founder of QuantRes, along with Valor Equity Partners and 8VC
- Headquartered in Mountain View, CA, Addepar is a leading provider of portfolio management and reporting software and services that seeks to become the infrastructure that will connect all aspects of global finance
- Harald McPike is the founder of QuantRes, a quantitative trading firm, and a global private investor with a focus on the financial and technology sectors
- Valor Equity Partners is an operational growth investment firm that does both minority and majority investments in high growth companies at various stages of development
- 8VC is a venture capital firm that makes seed to later stage investments with a focus on the technology industry

Significance of Transaction

- The financing capitalizes on Addepar's unprecedented growth from \$300 billion to over \$650 billion assets on platform in less than 18 months as top wealth managers embraced Addepar's category-defining client reporting software
- With the new capital, Addepar will continue investing significantly in R&D, expanding its product, platform and tech-enabled services to unlock more value for its clients while also serving a wider range of wealth and asset management firms

FT Partners' Role

- FT Partners served as exclusive strategic and financial advisor to Addepar
- Transaction demonstrates FT Partners' continued leadership position as the "advisor of choice" to the highest quality FinTech companies as well as its deep domain expertise and experience in the WealthTech space

Financial Technology Partners LP

is pleased to announce its role as exclusive strategic and financial advisor to



in its Series D financing co-led by



Harald McPike

for total consideration of

\$ 140,000,000



Riskalyze Raises \$20 mm in Growth Financing

FT Partners Advises Riskalyze on its Growth Equity Investment



Overview of Transaction

- On October 31, 2016, Riskalyze announced it closed a \$20 million minority growth equity investment led by FTV Capital
- Headquartered in Auburn, CA, Riskalyze invented the Risk Number[®], which
 powers the world's first Risk Alignment Platform and empowers advisors to
 execute a digital advice business model with Autopilot; Riskalyze also
 enables compliance teams to spot issues, develop real-time visibility and
 navigate changing fiduciary rules with Compliance Cloud
- FTV Capital is a growth equity investment firm that has raised over \$2.7
 billion to invest in high-growth companies within the enterprise technology
 & services, financial services and payments & transaction processing
 sectors

Significance of Transaction

- The transaction capitalizes on Riskalyze's strong growth and traction within the advisor market and demonstrates the need for quantified risk alignment
- With the investment, Riskalyze will look to bolster and expand its line of digital offerings

FT Partners' Role

- FT Partners served as exclusive strategic and financial advisor to Riskalyze and its Board of Directors
- Transaction demonstrates FT Partners' continued success advising on financings for top-tier FinTech companies

Financial Technology Partners LP FTP Securities LLC

is pleased to announce its role as exclusive strategic and financial advisor to



in its growth equity investment led by



for total consideration of

\$ 20,000,000



BlackRock's Acquisition of FutureAdvisor

FT Partners Advises BlackRock on its Acquisition of FutureAdvisor



Overview of Transaction

- On August 26, 2015, BlackRock (NYSE: BLK) announced a definitive agreement to acquire 100% of FutureAdvisor
- FutureAdvisor is a leading digital wealth management platform with technology-enabled investment advice capabilities
- BlackRock offers investment management, risk management and advisory services to institutional and retail clients worldwide and has over \$4.7tn in assets under management
- Following the transaction, FutureAdvisor will operate as a business within BlackRock Solutions ("BRS"), BlackRock's investment and risk management platform
- The transaction is expected to close in Q4 2015

Significance of Transaction

- Combines FutureAdvisor's tech-enabled advice capabilities with BRS' investment and risk management solutions
- Enables BlackRock to provide a B2B digital advice platform, which helps financial institution partners both improve their clients' investment experiences and grow advisory assets
- Empowers partners to meet the growing demand among consumers to engage with technology to gain insights on their investment portfolios
 - Demand is particularly strong among the mass-affluent, who account for \sim 30% of investable assets in the U.S.

FT Partners' Role

- FT Partners served as exclusive advisor to BlackRock
- Highlights FT Partners' continued success advising a broad range of toptier strategic investors across the financial technology landscape

Financial Technology Partners LP

is pleased to announce its exclusive role as advisor to

BLACKROCK

in its 100% acquisition of





PENSCO Trust Company's \$104 million Sale

FT Partners Advises PENSCO Trust Company in its Sale to Opus Bank



Overview of Transaction

- On January 25, 2016, PENSCO Trust Company ("PENSCO") announced its sale to Opus Bank ("Opus") (NASDAQ: OPB) for approximately \$104 million (as adjusted) in a mix of cash and stock
- Backed by Panorama Point Partners, PENSCO is a leading custodian of selfdirected IRA and alternative investments
- Opus is an FDIC insured California-chartered commercial bank with \$6.2 billion of total assets, \$5.0 billion of total loans, and \$4.9 billion in total deposits
- Following the transaction, PENSCO will operate as a subsidiary of Opus
- The transaction is expected to close in Q2 2016

Significance of Transaction

- The acquisition positions Opus at the forefront of the alternative asset wealth services business
- PENSCO provides Opus with strong, recurring non-interest income based on assets under custody
- The transaction also presents additional potential revenue opportunities through Opus' Merchant Bank, Commercial Bank, Retail Bank and Opus Financial Partners, Opus' broker-dealer subsidiary

FT Partners' Role

- FT Partners served as exclusive strategic and financial advisor to PENSCO and its Board of Directors
- Highlights FT Partners' continued success advising a broad range of toptier strategic investors across the financial technology landscape

Financial Technology Partners LP

is pleased to announce its exclusive role as sole strategic and financial advisor to



in its sale to



for total consideration of approximately

\$ 104,000,000

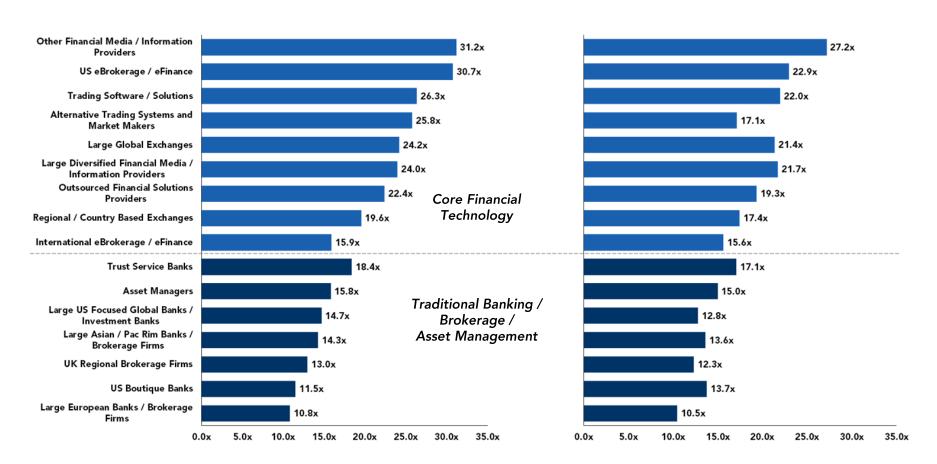


Median Price / Earnings Multiples by FT Sector



2017E Price / Earnings Multiples

2018E Price / Earnings Multiples





Common Stock Comparison – Summary Analysis

		Aggre	gate			Multi	ples			Gro	wth Rat	es	Mar	gins	
	% LTM	Mkt Cap	EV	Price / E	arnings	EV / E	BITDA	EV / Re	venue	Reve	nue	EPS	EBIT	ΓDΑ .	P/E/G
Comparable FT Industry Segment	High	(\$ mm)	(\$ mm)	CY 17E	CY 18E	CY 17E	CY 18E	CY 17E	CY 18E	CY 17E	CY 18E	LT	CY 17E	CY 18E	CY 17E
Large Diversified Financial Media / Information Providers	98 %	\$ 228,262	\$ 264,717	24.0 x	21.7 x	15.9 x	14.6 x	5.9 x	5.3 x	7 %	6 %	10 %	38 %	35 %	2.2 x
Large Global Exchanges	96	235,366	247,582	24.2	21.4	15.6	14.7	9.7	8.7	4	8	9	64	65	2.4
US eBrokerage / eFinance	100	116,254	121,293	30.7	22.9	16.5	14.5	7.6	6.7	15	14	19	46	48	1.5
Outsourced Financial Solutions Providers	92	53,360	60,162	22.4	19.3	15.1	14.2	3.6	3.1	14	10	13	27	29	1.8
Other Financial Media / Information Providers	97	28,400	33,428	31.2	27.2	18.9	15.9	4.3	3.9	19	7	12	27	28	2.6
Alternative Trading Systems and Market Makers	77	19,004	33,381	25.8	17.1	11.1	8.9	4.4	4.1	7	9	10	35	43	2.5
Trading Software / Solutions	87	15,905	18,176	26.3	22.0	17.4	14.0	3.6	3.4	10	7	14	25	26	2.2
International eBrokerage / eFinance	90	12,248	11,000	15.9	15.6	5.1	4.1	2.8	2.8	(1)	2	11	33	31	1.1
Regional / Country Based Exchanges	87	12,483	6,278	19.6	17.4	13.2	10.9	6.3	5.2	2	7	10	51	54	2.0
Large US Focused Global Banks / Investment Banks	98	1,240,785	5,229,845	14.7	12.8	83.4	58.5	12.8	12.4	4	3	10	16	22	1.3
Large European Banks / Brokerage Firms	95	460,475	3,010,365	10.8	10.5	19.6	18.9	20.8	20.2	2	3	6	37	37	1.6
Large Asian / Pac Rim Banks / Brokerage Firms	93	333,206	1,907,125	14.3	13.6	22.9	26.7	32.5	31.5	3	3	5	34	32	2.7
Trust Service Banks	97	143,600	493,023	18.4	17.1	na	na	14.4	13.8	6	4	8	na	na	2.0
Asset Managers	97	163,387	148,827	15.8	15.0	9.4	8.7	3.6	3.3	9	8	9	35	36	1.7
UK Regional Brokerage Firms	92	24,372	70,755	13.0	12.3	17.9	16.3	10.8	10.4	12	4	9	35	34	2.2
US Boutique Banks	96	19,105	15,834	11.5	13.7	10.4	8.4	1.5	1.4	14	7	12	11	15	1.1
Median	96 %			19.0 x	17.1 x	15.9 x	14.5 x	6.1 x	5.3 x	7 %	7 %	10 %	35 %	34 %	2.0 x
Mean	93			19.9	17.5	19.5	16.6	9.0	8.5	8	6	10	34	36	1.9

Public Securities / Capital Markets / Wealth Technology Sectors 2017E and 2018E Price / Earning Multiples and YTD Stock Price Performance



	YTD	Price / I	Earnings		YTD	Price / I	Earnings		YTD	Price /	Earnings
Company Name	Change	CY 17E	CY 18E	Company Name	Change	CY 17E	CY 18E	Company Name	Change	CY 17E	CY 18E
LARGE GLOBAL EXCHANGES				US EBROKERAGE / EFINANCE				OUTSOURCED FINANCIAL SOLUTI	ONS PROVIDER	S	
Hong Kong Exchanges & Clearing	28 %	39.7 x	34.9 x	MarketAxess	33 %	49.5 x	41.8 x	Envestnet	39 %	37.8 x	30.3 x
CBOE	67	36.3	31.1	TD Ameritrade	17	31.2	22.9	Class Limited	(9)	36.3	30.3
CME Group	30	31.3	28.1	Charles Schwab	24	30.3	25.2	SEI Investments	43	30.0	25.9
London Stock Exchange	30	25.7	21.9	E*TRADE Financial	39	20.6	18.7	Sanne Group	25	29.5	25.2
B3	41	25.4	21.4	Gain Capital	15	nm	9.7	Computershare	32	28.7	25.3
Australian Stock Exchange	15	25.2	24.3					Broadridge Financial	36	25.9	23.8
Intercontinental Exchange	27	24.2	21.2	INTERNATIONAL EBROKERAGE / EFINA	NCE			LPL Financial	47	22.4	16.1
Singapore Exchange	5	23.4	21.4	India Infoline	133 %	28.4 x	22.3 x	SS&C Technologies	44	21.4	18.9
Deutsche Böerse	25	20.9	18.1	Comdirect	21	23.8	27.8	Financial Engines	(24)	20.3	19.3
NASDAQ OMX	18	18.9	17.7	Matsui Securities	(2)	21.4	20.3	DST Systems	17	20.3	17.4
Euronext	31	17.8	16.3	Swissquote Group	46	17.4	15.6	NOAH	84	20.0	16.5
Bolsas y Mercados Espanoles	1	15.3	15.1	VIEL et Cie	26	14.4	12.2	Bravura Solutions	17	13.5	12.6
TMX	(3)	14.9	13.3	CMC Markets	57	11.0	13.4	KAS BANK	18	12.3	10.3
				Yintech	(36)	7.4	6.9	Netwealth	na	na	na
REGIONAL / COUNTRY BASED EXCHA	NGES			Plus500	149	6.4	6.5				
Hellenic Exchanges	(5)%	51.8 x	28.0 x	Compagnie Financiere Tradition	20	na	na	LARGE DIVERSIFIED FINANCIAL M	IEDIA / INFORM	ATION PRO	VIDERS
Multi Commodity Exchange of India	(24)	38.5	34.7	Monex Group	1	nm	25.4	MSCI	63 %	33.6 x	28.5 x
Dubai Financial Market	(12)	36.7	22.0					Fair Isaac Corporation	32	31.7	27.7
Bursa Malaysia	9	23.3	22.9	TRADING SOFTWARE / SOLUTIONS				Verisk	19	30.3	27.8
New Zealand Exchange	9	19.6	17.4	First Derivatives	76 %	61.0 x	58.7 x	Moody's	61	25.6	23.2
JSE Limited	(18)	17.9	14.5	SimCorp	9	30.5	26.2	S&P Global	54	24.9	22.9
Bolsa Mexicana de Valores	17	16.8	15.6	StatPro Group	42	30.0	21.0	Thomson Reuters	(3)	23.1	21.7
Moscow Exchange MICEX-RTS	(1)	13.6	13.1	Fidessa	7	26.3	25.0	IHS Markit	26	21.7	20.2
Warsaw Stock Exchange	9	12.7	12.5	IRESS Market Technology	(8)	26.1	23.0	Reed Elsevier	19	21.4	20.0
Philippine Stock Exchange	1	na	na	SS&C Technologies	44	21.4	18.9	Equifax	(3)	19.3	19.2
				Linedata Services	(16)	16.5	13.7	Dun & Bradstreet	1	17.2	16.7
ALTERNATIVE TRADING SYSTEMS AND	MARKET M	AKERS		Brady	(12)	nm	20.6	Experian	(2)	na	14.6
ITG	(9)%	72.0 x	17.1 x					Morningstar	25	na	na
Virtu Financial	2	37.0	17.9								
Interactive Brokers Group	56	37.0	34.2					OTHER FINANCIAL MEDIA / INFO	RMATION PROV	IDERS	
NEX Group	28	25.8	22.8					Forrester	8 %	38.5 x	30.8 x
Flow Traders	(44)	18.6	10.7					Gartner	20 %	35.0 x	29.9 x
BGC Partners	60	15.3	12.7					FactSet	22 %	27.3 x	24.4 x
IG Group	31	13.8	13.6					Informa	10 %	16.2 x	15.1 x
								Value Line	(9)%	na	na



2017E and 2018E Price / Earning Multiples and YTD Stock Price Performance

	TRA	ADITION	AL BANK	ING / BROKERAGE			
	YTD	Price /	Earnings				
Company Name	Change	CY 17E	CY 18E	· 	YTD		arnings
				Company Name	Change	CY 17E	CY 18E
ASSET MANAGERS							
WisdomTree	3 %	48.1 x	32.8 x	LARGE EUROPEAN BANKS / BROK			
Cohen & Steers	39	22.7	20.4	Allianz SE	27 %	12.4 x	11.9 x
BlackRock	32	22.4	19.7	Mediobanca	25	11.5	11.5
T. Rowe Price	37	19.0	17.7	Royal Bank of Scotland	23	11.2	10.7
Artisan Partners	33	16.4	15.0	HSBC	12	10.4	10.2
Virtus Investment Partners	2	15.9	12.1	BNP Paribas	5	10.1	9.9
Federated Investors	19	15.7	15.4	Lloyds TSB	6	8.2	9.0
Janus Capital Group	na	15.5	14.0				
Franklin Templeton	10	14.4	14.9	LARGE ASIAN / PAC RIM BANKS /	BROKERA	GE FIRMS	
Invesco	19	13.6	12.5	Hang Seng Bank	34 %	19.6 x	18.0 x
Waddell & Reed	4	12.5	12.2	ICICI Bank	33	19.4	20.4
Alliance Bernstein	7	11.9	10.7	Macquarie Group	13	15.2	14.2
				Commonwealth Bank of Australia	(4)	14.3	13.6
TRUST SERVICE BANKS				DBS Group	41	14.0	11.3
UMB Financial	(3)%	20.6 x	19.0 x	National Australia Bank	(4)	12.3	12.9
Northern Trust	10	20.6	18.2	Nomura Holdings	(3)	10.0	10.1
M&T Bank	8	18.4	17.1				
Bank of New York Mellon	16	15.5	14.1	UK REGIONAL BROKERAGE FIRMS			
State Street	23	15.3	13.8	Hargreaves Lansdown	32 %	35.6 x	32.7 x
				TP ICAP	na	15.0	12.3
LARGE US FOCUSED GLOBAL BAN	IKS / INVESTI	IENT BANK	S	Close Brothers Group	(2)	10.9	10.8
Credit Suisse	14 %	20.9 x	13.0 x	Numis	26	8.8	14.0
Bank of America	27	15.4	13.1	Investec	(4)	na	9.2
J.P. Morgan Chase	21	15.1	13.8				
Deutsche Bank	(8)	14.7	11.5	US BOUTIQUE BANKS			
Citigroup	27	14.7	12.8	Raymond James Financial	27 %	16.3 x	14.7 x
Morgan Stanley	22	14.4	12.8	Stifel Financial	13	16.2	14.4
Goldman Sachs	3	13.0	12.3	Piper Jaffray	8	11.5	13.1
UBS	7	12.5	11.4	Cowen	(4)	11.0	5.8
Barclays	(13)	12.0	9.5	JMP Group	(14)	10.7	9.7
•				Greenhill & Co.	(27)	nm	22.6
				Ladenburg Thalmann	41	nm	nm

FINANCIAL TECHNOLOGY PARTNERS

Common Stock Comparison

				Market	Enterprise			Multi	iples			Gro	owth Ra	tes	Mar	gins	
	Price	% MTD	% LTM	Value	Value	Price / E	arnings	EV / E	BITDA	EV / Re	venue	Revei	nue	EPS	EBI1	ΓDΑ	P/E/
Company Name	11/30/17	Change	High	(\$ mm)	(\$ mm)	CY 17E	CY 18E	CY 17E	CY 18E	CY 17E	CY 18E	CY 17E C	CY 18E	LT	CY 17E (CY 18E	CY 17
ARGE GLOBAL EXCHANGES																	
CME Group	\$ 149.54	10 %	100 %	\$51,040	\$51,554	31.3 x	28.1 x	20.0 x	18.4 x	14.2 x	13.2 x	1 %	8 %	10 %	71 %	72 %	3
Intercontinental Exchange	71.45	8	100	41,928	47,582	24.2	21.2	16.1	14.8	10.3	9.7	3	6	9	64	65	2
Bolsas y Mercados Espanoles	33.58	(4)	84	2,811	24,129	15.3	15.1	95.5	94.6	62.9	62.6	1	1	1	66	66	n
Deutsche Böerse ⁽¹⁾	113.14	5	97	21,185	21,621	20.9	18.1	12.7	11.6	7.4	6.9	3	7	11	59	60	1
London Stock Exchange ⁽¹⁾	51.04	1	93	18,020	18,960	25.7	21.9	14.7	12.8	7.4	6.8	21	10	16	50	53	1
NASDAQ OMX	79.16	9	99	13,180	16,345	18.9	17.7	13.3	12.5	6.8	6.4	6	6	9	51	51	2
Hong Kong Exchanges & Clearing	30.11	6	91	36,993	15,986	39.7	34.9	13.4	11.8	9.7	8.7	15	11	9	72	74	4
B3 ⁽²⁾	7.11	(3)	90	14,590	15,705	25.4	21.4	19.0	16.8	13.0	11.7	70	11	3	69	70	r
CBOE	123.43	10	99	14,049	15,243	36.3	31.1	23.4	19.4	15.1	13.2	57	15	34	65	68	1
Australian Stock Exchange	43.28	6	99	8,370	7,667	25.2	24.3	16.8	16.1	12.9	12.3	4	5	5	77	76	r
Singapore Exchange	5.56	(2)	96	5,961	5,314	23.4	21.4	15.6	14.7	8.9	8.1	(2)	10	4	57	55	r
Euronext	61.06	(0)	96	4,219	4,053	17.8	16.4	11.7	10.3	6.4	5.9	7	8	6	55	57	
TMX	53.93	(3)	87	3,020	3,424	14.9	13.3	11.2	9.7	6.1	5.5	(2)	9	na	54	57	
/ledian		5 %	96 %			24.2 x	21.4 x	15.6 x	14.7 x	9.7 x	8.7 x	4 %	8 %	9 %	64 %	65 %	2
Mean .		3	95			24.5	21.9	21.8	20.3	13.9	13.2	14	8	10	62	63	2
EGIONAL / COUNTRY BASED EXC																	
Dubai Financial Market	\$ 0.30		67 %	\$ 2,395	\$ 1,667	36.7 x	22.0 x	29.7 x	21.4 x	15.2 x	11.6 x	(41)%	31 %	na	51 %	54 %	
Bursa Malaysia	2.37	(3)	87	1,272	1,184	23.3	22.9	14.9	14.5	8.8	8.5	7	3	6	59	59	4
Bolsa Mexicana de Valores	1.71	(1)	91	1,014	920	16.8	15.6	9.8	9.1	5.5	5.1	11	7	14	56	56	·
JSE Limited	9.81	(1)	80	838	693	17.9	14.5	11.4	9.2	4.3	3.8	(6)	14	5	38	41	3
Multi Commodity Exchange of India			68	757	572	38.5	34.7	46.6	39.6	15.5	13.0	2	19	19	33	33	
Warsaw Stock Exchange	12.28		87	515	463	12.7	12.5	7.9	8.0	4.8	4.8	10	(0)	na	61	60	
Philippine Stock Exchange	4.77	(2)	93	350	329	na	na	na	na	na	na	na	na	na	na	na	
Hellenic Exchanges	5.55	, ,	74	335	234	51.8	28.0	19.7	11.5	7.1	5.4	7	32	nm	36	47	
New Zealand Exchange	0.78	1-7	92	207	216	19.6	17.4	11.1	10.3	4.2	4.0	(2)	6	25	38	39	(
Moscow Exchange MICEX-RTS	2.13	5	89	4,800	nm	13.6	13.1	nm	nm	nm	nm	(10)	5	(3)	72	72	r
Median		(3)%	87 %			19.6 x	17.4 x	13.2 x		6.3 x	5.2 x	2 %	7 %	10 %	51 %	54 %	2.
Mean		(3)	83			25.6	20.1	18.9	15.4	8.2	7.0	(2)	13	11	49	51	2

Source: Wall Street Research, Reuters and Capital IQ Note: nm signifies negative value or value of >99

⁽¹⁾ On March 29, 2017, the EU blocked the proposed merger between Deutsche Boerse and the London Stock Exchange



Common Stock Comparison

				Market	Enterprise			Multi	ples			Gro	owth Ra	tes	Mar	gins	
	Price	% MTD	% LTM	Value	Value	Price / E	arnings	EV / EE	BITDA	EV / Rev	venue	Revei	nue	EPS	EBI1	DA	P/E/C
Company Name	11/30/17	Change	High	(\$ mm)	(\$ mm)	CY 17E	CY 18E	CY 17E	CY 18E	CY 17E (CY 18E	CY 17E C	Y 18E	LT	CY 17E (CY 18E	CY 17E
ALTERNATIVE TRADING SYSTEM	IS AND MARKE	ET MAKER	RS														
Interactive Brokers Group	\$ 57.06	6 %	100 %	\$4,078	\$11,889	37.0 x	34.2 x	11.1 x	9.7 x	7.5 x	7.1 x	8 %	6 %	10 %	67 %	73 %	3.7
BGC Partners ⁽¹⁾	16.33	9	99	4,733	7,195	15.3	12.7	11.1	8.5	2.3	2.0	21	14	na	21	24	na
Virtu Financial	16.30	15	85	2,399	6,518	37.0	17.9	33.8	16.5	12.6	8.0	23	57	na	37	49	na
NEX Group ⁽²⁾	8.02	(7)	68	2,974	3,406	25.8	22.8	13.6	14.4	4.4	4.1	na	7	20	32	28	1.3
IG Group	8.74	(1)	77	3,202	2,891	13.8	13.6	9.2	8.9	4.3	4.1	6	5	2	46	46	nm
Flow Traders	21.95	(14)	52	1,021	1,020	18.6	10.7	13.7	8.0	4.8	3.5	(27)	39	na	35	43	na
ITG	17.99	(10)	75	595	461	72.0	17.1	6.1	4.3	1.0	0.9	1	9	na	16	21	na
Median Mean		(1)% (0)	77 % 79			25.8 x 31.4	17.1 x 18.4	11.1 x 14.1	8.9 x 10.1	4.4 x 5.3	4.1 x 4.2	7 % 6	9 % 20	10 % 11	35 % 36	43 % 40	2.5 2.5
TRADING SOFTWARE / SOLUTIO	NS																
SS&C Technologies	\$ 41.29	3 %	97 %	\$ 8,948	\$ 11,062	21.4 x	18.9 x	16.0 x	14.5 x	6.6 x	6.3 x	10 %	6 %	15 %	41 %	43 %	
SimCorp	\$ 41.29 60.18	3 % (4)	97 % 84	\$ 8,948 2,365	\$ 11,062 2,366	21.4 x 30.5	18.9 x 26.2	16.0 x 22.0	14.5 x 19.5	6.6 x 5.9	6.3 x 5.3	10 % 14	6 % 10	15 % 14	41 % 27	43 % 27	1.4 2.2
SimCorp	60.18	(4)	84	2,365	2,366	30.5	26.2	22.0	19.5	5.9	5.3	14	10	14	27	27	2.2
SimCorp IRESS Market Technology	60.18 8.24	(4) (7)	84 81	2,365 1,394	2,366 1,526	30.5 26.1	26.2 23.0	22.0 17.7	19.5 15.3	5.9 4.7	5.3 4.3	14 10	10 9	14 6	27 26	27 28	2.2 4.3
SimCorp IRESS Market Technology First Derivatives	60.18 8.24 50.53	(4) (7)	84 81 98	2,365 1,394 1,380	2,366 1,526 1,398	30.5 26.1 61.0	26.2 23.0 58.7	22.0 17.7 36.0	19.5 15.3 32.1	5.9 4.7 6.8	5.3 4.3 5.8	14 10 30	10 9 18	14 6 na	27 26 19	27 28 18	2.2 4.3 na
SimCorp IRESS Market Technology First Derivatives Fidessa	60.18 8.24 50.53 33.19	(4) (7)	84 81 98 92	2,365 1,394 1,380 1,275	2,366 1,526 1,398 1,179	30.5 26.1 61.0 26.3	26.2 23.0 58.7 25.0	22.0 17.7 36.0 9.7	19.5 15.3 32.1 9.4	5.9 4.7 6.8 2.5	5.3 4.3 5.8 2.4	14 10 30 7	10 9 18 2	14 6 na na	27 26 19 26	27 28 18 26	2.2 4.3 na na
SimCorp IRESS Market Technology First Derivatives Fidessa Linedata Services	60.18 8.24 50.53 33.19 47.04	(4) (7) 5 7	84 81 98 92 68	2,365 1,394 1,380 1,275 338	2,366 1,526 1,398 1,179 421	30.5 26.1 61.0 26.3 16.5	26.2 23.0 58.7 25.0 13.7	22.0 17.7 36.0 9.7 8.3	19.5 15.3 32.1 9.4 7.5	5.9 4.7 6.8 2.5 2.0	5.3 4.3 5.8 2.4 1.9	14 10 30 7 5	10 9 18 2 3	14 6 na na	27 26 19 26 24	27 28 18 26 26	2.2 4.3 na na

Source: Wall Street Research, Reuters and Capital IQ Note: nm signifies negative value or value of >99

⁽¹⁾ BGC Partners multiples were calculated using Pitchbook projections and CapIQ EV



				Market	Enterprise			Mult	iples			Gr	owth Ra	tes	Mar	gins	
	Price	% MTD	% LTM	Value	Value	Price / E	arnings	EV / E	BITDA	EV / Re	venue	Reve	nue	EPS	EBI1	ΓDΑ	P/E/
Company Name	11/30/17	Change	High	(\$ mm)	(\$ mm)	CY 17E	CY 18E	CY 17E	CY 18E	CY 17E (CY 18E	CY 17E (CY 18E	LT	CY 17E (CY 18E	CY 17E
JS EBROKERAGE / EFINANCE																	
Charles Schwab	\$ 48.79	10 %	100 %	\$ 66,394	\$ 65,194	30.3 x	25.2 x	16.5 x	14.0 x	7.6 x	6.7 x	15 %	14 %	19 %	46 %	48 %	1.6
TD Ameritrade	51.17	4	100	29,022	30,205	31.2	22.9	18.8	15.6	7.6	6.2	18	22	20	40	40	1.5
E*TRADE Financial	48.14	11	100	13,031	18,382	20.6	18.7	15.1	14.5	7.8	7.1	22	9	16	52	49	1.3
MarketAxess	195.27	11	93	7,465	7,261	49.5	41.8	33.1	27.8	18.3	15.9	8	15	na	55	57	na
Gain Capital	7.55	7	84	342	252	nm	9.7	4.8	2.8	0.8	0.7	(20)	11	na	16	24	na
Median		10 %	100 %			30.7 x	22.9 x	16.5 x	14.5 x	7.6 x	6.7 x	15 %	14 %	19 %	46 %	48 %	1.5
Mean		8	95			32.9	23.7	17.7	14.9	8.4	7.3	8	14	18	42	44	1.5
Matsui Securities			OF 0/	40040	40510	04.4	00.0			40.7	40.4	(0) 0/	E 0/				
Matsui Securities	\$ 8.76																
		2 %	95 %	\$ 2,249	\$3,563	21.4 x	20.3 x	na	na	13.7 x	13.1 x	(2)%	5 %	na	na	na	na
India Infoline	9.47	(1)	83	3,035	2,679	21.4 x 28.4	22.3	na 5.1	na 4.1	3.5	2.8	23	28	26	na 69	na 68	na 1.1
India Infoline Monex Group	9.47 2.91	(1) 4	83 87	3,035 809	2,679 1,704	28.4 nm	22.3 25.4	5.1 na	4.1 na	3.5 4.2	2.8 4.1	23 (16)	28 2		69 na	68 na	
India Infoline Monex Group Plus500	9.47 2.91 9.58	(1)	83	3,035 809 1,100	2,679 1,704 879	28.4	22.3	5.1	4.1	3.5	2.8	23	28	26	69	68	1.1
India Infoline Monex Group Plus500 Compagnie Financiere Tradition	9.47 2.91	(1) 4	83 87 91 90	3,035 809 1,100 715	2,679 1,704	28.4 nm	22.3 25.4	5.1 na	4.1 na	3.5 4.2	2.8 4.1	23 (16)	28 2	26 12	69 na	68 na	1.1 na na na
India Infoline Monex Group Plus500	9.47 2.91 9.58	(1) 4 (7)	83 87 91	3,035 809 1,100	2,679 1,704 879	28.4 nm 6.4	22.3 25.4 6.5	5.1 na 3.9	4.1 na 4.0	3.5 4.2 2.3	2.8 4.1 2.3	23 (16) 19	28 2 (0)	26 12 na	69 na 58	68 na 57	1.1 na na na
India Infoline Monex Group Plus500 Compagnie Financiere Tradition	9.47 2.91 9.58 96.10	(1) 4 (7) (2)	83 87 91 90	3,035 809 1,100 715	2,679 1,704 879 675	28.4 nm 6.4 na	22.3 25.4 6.5 na	5.1 na 3.9 na	4.1 na 4.0 na	3.5 4.2 2.3 na	2.8 4.1 2.3 na	23 (16) 19 na	28 2 (0) na	26 12 na na	69 na 58 na	68 na 57 na	1.1 na na na 1.2
India Infoline Monex Group Plus500 Compagnie Financiere Tradition CMC Markets	9.47 2.91 9.58 96.10 2.31	(1) 4 (7) (2) 10	83 87 91 90 90	3,035 809 1,100 715 670	2,679 1,704 879 675 646	28.4 nm 6.4 na 11.0	22.3 25.4 6.5 na 13.4	5.1 na 3.9 na 8.5	4.1 na 4.0 na 9.0	3.5 4.2 2.3 na 2.8	2.8 4.1 2.3 na 2.8	23 (16) 19 na na	28 2 (0) na (1)	26 12 na na 9	69 na 58 na 33	68 na 57 na 31	1.1 na na
India Infoline Monex Group Plus500 Compagnie Financiere Tradition CMC Markets VIEL et Cie	9.47 2.91 9.58 96.10 2.31 6.53	(1) 4 (7) (2) 10 3	83 87 91 90 90	3,035 809 1,100 715 670 485	2,679 1,704 879 675 646 560	28.4 nm 6.4 na 11.0	22.3 25.4 6.5 na 13.4 12.2	5.1 na 3.9 na 8.5 6.3	4.1 na 4.0 na 9.0 6.1	3.5 4.2 2.3 na 2.8 0.6	2.8 4.1 2.3 na 2.8 0.6	23 (16) 19 na na (0)	28 2 (0) na (1) 2	26 12 na na 9	69 na 58 na 33	68 na 57 na 31	1.1 na na na 1.2 na
India Infoline Monex Group Plus500 Compagnie Financiere Tradition CMC Markets VIEL et Cie Yintech	9.47 2.91 9.58 96.10 2.31 6.53	(1) 4 (7) (2) 10 3 (15)	83 87 91 90 90 91	3,035 809 1,100 715 670 485 733	2,679 1,704 879 675 646 560 294	28.4 nm 6.4 na 11.0 14.4 7.4	22.3 25.4 6.5 na 13.4 12.2 6.9	5.1 na 3.9 na 8.5 6.3 2.7	4.1 na 4.0 na 9.0 6.1 2.4	3.5 4.2 2.3 na 2.8 0.6 0.8	2.8 4.1 2.3 na 2.8 0.6 0.7	23 (16) 19 na na (0) (6)	28 2 (0) na (1) 2	26 12 na na 9 na	69 na 58 na 33 10 28	68 na 57 na 31 10	1.1 na na na 1.2 na
India Infoline Monex Group Plus500 Compagnie Financiere Tradition CMC Markets VIEL et Cie Yintech Comdirect	9.47 2.91 9.58 96.10 2.31 6.53 10.48 13.87	(1) 4 (7) (2) 10 3 (15) (3)	83 87 91 90 90 91 46 96	3,035 809 1,100 715 670 485 733 1,948	2,679 1,704 879 675 646 560 294	28.4 nm 6.4 na 11.0 14.4 7.4 23.8	22.3 25.4 6.5 na 13.4 12.2 6.9 27.8	5.1 na 3.9 na 8.5 6.3 2.7	4.1 na 4.0 na 9.0 6.1 2.4 na	3.5 4.2 2.3 na 2.8 0.6 0.8	2.8 4.1 2.3 na 2.8 0.6 0.7	23 (16) 19 na na (0) (6)	28 2 (0) na (1) 2 2	26 12 na na 9 na na (2)	69 na 58 na 33 10 28	68 na 57 na 31 10 31	1.1 na na na 1.2 na na



				Market	Enterprise			Multi	ples			Gr	owth Rat	es	Mar	gins	
	Price	% MTD	% LTM	Value	Value	Price / E	arnings	EV / EE	BITDA	EV / Rev	/enue	Reve	nue	EPS	EBIT	DA	P/E/G
company Name	11/30/17	Change	High	(\$ mm)	(\$ mm)	CY 17E	CY 18E	CY 17E	CY 18E	CY 17E (CY 18E	CY 17E (CY 18E	LT	CY 17E (CY 18E	CY 17E
OUTSOURCED FINANCIAL SOLUTION	ONS PROVIDER	s															
Broadridge Financial	\$ 90.26	4 %	98 %	\$ 10,770	\$ 11,774	25.9 x	23.8 x	14.1 x	14.0 x	2.8 x	2.7 x	46 %	2 %	10 %	20 %	20 %	2.6
SS&C Technologies	41.29	3	97	8,948	11,062	21.4	18.9	16.0	14.5	6.6	6.3	10	6	15	41	43	1.4
SEI Investments	70.36	9	100	11,707	10,597	30.0	25.9	17.0	14.6	7.0	6.4	9	10	12	41	44	2.5
Computershare	12.47	6	99	6,815	7,644	28.7	25.3	17.6	16.1	4.7	4.7	9	1	9	27	29	3.1
LPL Financial	51.84	5	96	4,777	6,682	22.4	16.1	11.6	9.2	1.6	1.4	6	15	13	14	15	1.7
DST Systems	62.58	6	99	3,793	4,297	20.3	17.4	10.1	9.0	2.1	1.9	28	7	10	21	22	2.0
Envestnet	49.15	(7)	89	2,262	2,472	37.8	30.3	20.3	16.1	3.6	3.1	18	16	18	18	20	2.2
KAS BANK	11.85	(0)	87	174	1,986	12.3	10.3	na	na	16.1	15.9	(16)	1	na	na	na	na
Financial Engines	27.90	(21)	61	1,767	1,569	20.3	19.3	9.9	9.3	3.3	3.1	13	7	13	33	33	1.0
Sanne Group	9.86	(9)	87	1,364	1,388	29.5	25.2	23.6	19.2	8.8	7.1	84	24	24	37	37	1.:
Netwealth	4.04	na	94	968	941	na	na	na	na	na	na	na	na	na	na	na	n
Bravura Solutions	1.23	(6)	87	263	254	13.5	12.6	10.3	9.1	1.7	1.6	26	10	12	17	17	1.1
Class Limited	1.98	(9)	72	235	220	36.3	30.3	18.8	15.4	9.1	7.7	22	19	20	48	50	1.
NOAH	6.11	2	84	356	112	20.0	16.5	6.0	4.7	1.7	1.3	14	26	25	28	28	0.
ledian lean		2 % (1)	92 % 89			22.4 x 24.5	19.3 x 20.9	15.1 x 14.6	14.2 x 12.6	3.6 x 5.3	3.1 x 4.9	14 % 21	10 % 11	13 % 15	27 % 29	29 % 30	1.8 1.8



				Market	Enterprise			Mult	iples			Gro	wth Ra	tes	Mar	gins	
	Price	% MTD	% LTM	Value	Value	Price / E	arnings	EV / E	BITDA	EV / Re	venue	Rever	nue	EPS	EBI1	ΓDA	P/E/G
Company Name	11/30/17	Change	High	(\$ mm)	(\$ mm)	CY 17E	CY 18E	CY 17E	CY 18E	CY 17E (CY 18E	CY 17E C	Y 18E	LT	CY 17E (CY 18E	CY 17E
LARGE DIVERSIFIED FINANCIA	L MEDIA / INFOR	MATION	PROVIDE	RS													
Thomson Reuters	\$ 56.82	(0)%	90 %	\$ 40,602	\$ 47,476	23.1 x	21.7 x	14.0 x	13.4 x	4.2 x	4.1 x	1 %	2 %	9 %	30 %	31 %	2.5
S&P Global	165.48	6	99	42,661	45,132	24.9	22.9	15.7	14.7	7.6	7.1	7	6	13	48	49	1.9
Reed Elsevier	23.34	1	97	27,816	34,664	21.4	20.0	9.9	9.6	3.4	3.3	10	4	8	35	35	2.6
Moody's	151.82	6	99	29,408	34,271	25.6	23.2	17.5	15.7	8.4	7.6	15	10	10	48	48	2.7
IHS Markit	44.62	4	92	18,247	22,163	21.7	20.2	16.0	14.6	6.2	5.8	31	7	13	39	40	1.7
Verisk	96.42	7	100	16,773	19,509	30.3	27.8	18.7	17.3	9.2	8.5	7	8	9	49	49	3.2
Experian	15.38	(2)	90	14,059	17,534	na	14.6	na	10.8	na	3.7	na	na	9	na	34	na
Equifax	114.12	4	78	13,762	16,218	19.3	19.2	13.3	13.3	4.8	4.7	7	3	11	36	35	1.8
MSCI	128.70	9	99	11,620	12,898	33.6	28.5	19.6	17.2	10.2	9.2	11	10	14	52	53	2.4
Dun & Bradstreet	123.11	6	98	4,553	5,820	17.2	16.7	11.6	11.1	3.3	3.2	3	3	10	29	29	1.7
Fair Isaac Corporation	157.06	9	99	4,834	5,333	31.7	27.7	23.4	20.0	5.6	5.3	6	6	16	24	26	2.0
Morningstar	92.30	8	99	3,927	3,698	na	na	na	na	na	na	na	na	na	na	na	na
Median		6 %	98 %			24.0 x	21.7 x	15.9 x	14.6 x	5.9 x	5.3 x	7 %	6 %	10 %	38 %	35 %	2.2 >
Mean		5	95			24.9	22.1	16.0	14.3	6.3	5.7	10	6	11	39	39	2.2
OTHER FINANCIAL MEDIA / INF	ORMATION PRO	VIDERS															
Gartner	\$ 120.89	(4)%	93 %	\$ 11,016	\$ 13,736	35.0 x	29.9 x	19.7 x	16.4 x	4.1 x	3.4 x	37 %	20 %	17 %	21 %	21 %	2.0
Informa	10.13	8	97	8,343	10,462	16.2	15.1	13.3	12.5	4.5	4.3	27	3	6	34	35	2.7
FactSet	199.88	8	100	8,021	8,369	27.3	24.4	19.2	17.7	6.6	6.1	10	8	11	34	34	2.4
Forrester	46.45	4	97	847	713	38.5	30.8	18.7	15.4	2.1	2.0	2	6	14	12	13	2.9
Value Line	17.69	(1)	77	172	148	na	na	na	na	na	na	na	na	na	na	na	na
Median		4 %	97 %			31.2 x	27.2 x	18.9 x	15.9 x	4.3 x	3.9 x	19 %	7 %	12 %	27 %	28 %	2.6
Mean		3	93			29.3	25.1	17.7	15.5	4.3	4.0	19	9	12	25	26	2.5



				Market	Enterprise			Multi	ples			Gre	owth Ra	tes	Mar	gins	
	Price	% MTD	% LTM	Value	Value	Price / E	arnings	EV / EE	BITDA	EV / Rev	venue	Reve	nue	EPS	EBI1	ΓDA	P/E/G
Company Name	11/30/17	Change	High	(\$ mm)	(\$ mm)	CY 17E	CY 18E	CY 17E	CY 18E	CY 17E (CY 18E	CY 17E (CY 18E	LT	CY 17E (CY 18E	CY 17E
ASSET MANAGERS																	
BlackRock	\$ 501.19	7 %	99 %	\$ 80,991	\$77,539	22.4 x	19.7 x	14.4 x	12.6 x	6.3 x	5.7 x	10 %	11 %	14 %	44 %	45 %	1.6 x
T. Rowe Price	102.92	11	100	25,628	23,020	19.0	17.7	10.2	9.8	4.9	4.5	12	7	12	47	46	1.6
Franklin Templeton	43.35	2	91	24,012	14,979	14.4	14.9	6.2	6.0	2.3	2.3	(3)	1	9	38	39	1.7
Invesco	36.17	1	96	14,724	14,933	13.6	12.5	9.4	8.7	4.0	3.7	10	9	14	43	42	0.9
Janus Capital Group	37.27	8	100	7,427	6,674	15.5	14.0	9.4	8.7	3.1	2.9	112	6	9	33	34	1.8
Federated Investors	33.56	7	100	3,260	3,136	15.7	15.4	8.9	8.6	2.8	2.7	(3)	3	5	32	32	3.2
AllianceBernstein	25.00	(3)	94	2,341	2,341	11.9	10.7	3.2	2.9	0.7	0.7	8	5	9	23	24	1.4
Virtus Investment Partners	120.05	5	94	871	2,308	15.9	12.1	21.5	16.2	5.4	4.4	31	22	25	25	27	0.6
Artisan Partners	39.50	11	100	1,975	1,968	16.4	15.0	6.4	5.8	2.5	2.3	10	8	10	39	39	1.7
Cohen & Steers	46.58	7	99	2,157	1,930	22.7	20.4	12.0	10.9	5.1	4.7	7	9	9	43	43	2.5
WisdomTree	11.50	1	86	1,561	1,488	48.1	32.8	21.1	17.2	6.4	5.3	7	19	27	30	31	1.7
Waddell & Reed	20.30	8	90	1,692	990	12.5	12.2	4.2	4.2	0.9	0.9	(7)	(4)	0	21	22	nm
Median		7 %	97 %			15.8 x	15.0 x	9.4 x	8.7 x	3.6 x	3.3 x	9 %	8 %	9 %	35 %	36 %	1.7 x
Mean		5	96			19.0	16.5	10.6	9.3	3.7	3.4	16	8	12	35	35	1.7



				Market	Multi	iples	Gro	wth Ra	tes		
	Price	% MTD	% LTM	Value	Price / E	arnings	Rever	nue	EPS	P/E/G	Price
Company Name	11/30/17	Change	High	(\$ mm)	CY 17E	CY 18E	CY 17E C	Y 18E	LT	CY 17E	Book
TRUST SERVICE BANKS											
Bank of New York Mellon	\$ 54.74	6 %	99 %	\$ 56,526	15.5 x	14.1 x	3 %	4 %	8 %	2.0 x	1.4 x
State Street	95.35	3	95	35,376	15.3	13.8	8	5	11	1.3	1.6
M&T Bank	168.95	1	97	25,476	18.4	17.1	6	4	8	2.4	1.6
Northern Trust	97.78	5	98	22,438	20.6	18.2	9	8	11	1.9	2.2
UMB Financial	75.16	4	92	3,784	20.6	19.0	3	4	8	2.5	1.8
Median		4 %	97 %		18.4 x	17.1 x	6 %	4 %	8 %	2.0 x	1.6 x
Mean		4	96		18.1	16.4	6	5	9	2.0	1.7
LARGE US FOCUSED GLOBAL				¢ 2/5 570	45.4	12.0	4.0/	F 0/	7.0/	24	4.4
J.P. Morgan Chase	\$ 104.52	4 %	100 %	\$ 365,570	15.1 x	13.8 x	6%	5 %	7 %	2.1 x	1.4 x
Bank of America	28.17	2	99	295,815	15.4	13.1	5	3	6	2.4	1.1
Citigroup	75.50	2	99	199,622	14.7	12.8	2	3	9	1.6	0.9
Goldman Sachs	247.64	1	97	94,869	13.0	12.3	6	1	12	1.1	1.1
Morgan Stanley	51.61	4	100	93,352	14.4	12.8	10	4	15	1.0	1.2
UBS	17.28	0	96	64,248	12.5	11.4	4	3	12	1.1	1.2
Barclays	2.61	5	72	44,901	12.0	9.5	1	5	18	0.6	0.5
Credit Suisse	16.94	7	98	43,287	20.9	13.0	4	5	nm	na	1.0
Deutsche Bank	18.93	12	80	39,119	14.7	11.5	(7)	3	3	4.2	0.5
Median		4 %	98 %		14.7 x	12.8 x	4 %	3 %	10 %	1.3 x	1.1 x
Mean		4	93		14.8	12.2	3	4	10	1.8	1.0



				Market	Multi	ples	Gre	owth Ra	tes		
	Price	% MTD	% LTM	Value	Price / E	arnings	Reve	nue	EPS	P/E/G	Price
Company Name	11/30/17	Change	High	(\$ mm)	CY 17E	CY 18E	CY 17E (Y 18E	LT	CY 17E	Book
LARGE EUROPEAN BANKS / BROK	(ERAGE FIR	MS									
HSBC	\$7.34	0 %	95 %	\$ 144,887	10.4 x	10.2 x	(4)%	5 %	5 %	2.1 x	0.7
Allianz SE	236.81	(2)	97	106,039	12.4	11.9	2	3	5	2.3	1.3
BNP Paribas	75.72	(4)	92	94,402	10.1	9.9	0	3	6	1.6	0.8
Lloyds TSB	0.89	(4)	90	61,696	8.2	9.0	5	1	(1)	nm	0.9
Royal Bank of Scotland	3.74	(3)	95	44,440	11.2	10.7	8	(O)	16	0.7	0.7
Mediobanca	11.55	2	97	9,011	11.5	11.5	na	3	20	0.6	0.8
Median		(2)%	95 %		10.8 x	10.5 x	2 %	3 %	6 %	1.6 x	0.8
Mean		(2)	94		10.7	10.5	2	2	9	1.5	0.9
LARGE ASIAN / PAC RIM BANKS /	BROKERAG	E FIRMS									
LARGE ASIAN / PAC RIM BANKS / Commonwealth Bank of Australia	BROKERAG \$ 60.16	SE FIRMS	91 %	\$ 103,838	14.3 x	13.6 x	7 %	2 %	4 %	3.8 x	2.2
			91 % 87	\$ 103,838 59,969		13.6 x 12.9		2 % 3	4 % 4		
Commonwealth Bank of Australia	\$ 60.16	2 %			14.3 x		7 %			3.8 x	2.2
Commonwealth Bank of Australia National Australia Bank	\$ 60.16 22.41	2 % (10)	87	59,969	14.3 x 12.3	12.9	7 % 3	3	4	3.8 x 3.3	2.2 1.5
Commonwealth Bank of Australia National Australia Bank Hang Seng Bank	\$ 60.16 22.41 24.71	2 % (10) 4	87 99	59,969 47,244	14.3 x 12.3 19.6	12.9 18.0	7 % 3 11	3	4 10	3.8 x 3.3 1.9	2.2 1.5 2.5
Commonwealth Bank of Australia National Australia Bank Hang Seng Bank DBS Group	\$ 60.16 22.41 24.71 18.13	2 % (10) 4 6	87 99 98	59,969 47,244 46,360	14.3 x 12.3 19.6 14.0	12.9 18.0 11.3	7 % 3 11 5	3 8	4 10 14	3.8 x 3.3 1.9 1.0	2.2 1.5 2.5 1.3 1.8
Commonwealth Bank of Australia National Australia Bank Hang Seng Bank DBS Group ICICI Bank	\$ 60.16 22.41 24.71 18.13 4.77	2 % (10) 4 6 (2)	87 99 98 93	59,969 47,244 46,360 30,881	14.3 x 12.3 19.6 14.0 19.4	12.9 18.0 11.3 20.4	7 % 3 11 5 3	3 8 8 54	4 10 14 na	3.8 x 3.3 1.9 1.0	2.2 1.5 2.5 1.3 1.8
Commonwealth Bank of Australia National Australia Bank Hang Seng Bank DBS Group ICICI Bank Macquarie Group	\$ 60.16 22.41 24.71 18.13 4.77 74.40	2 % (10) 4 6 (2) (0)	87 99 98 93 97	59,969 47,244 46,360 30,881 23,952	14.3 x 12.3 19.6 14.0 19.4 15.2	12.9 18.0 11.3 20.4 14.2	7 % 3 11 5 3	3 8 8 54 3	4 10 14 na 6	3.8 x 3.3 1.9 1.0 na 2.7	2.2 1.5 2.5 1.3



				Market	Multi	ples	Gre	owth Ra	tes		
	Price	% MTD	% LTM	Value	Price / E	arnings	Reve	nue	EPS	P/E/G	Price
Company Name	11/30/17	Change	High	(\$ mm)	CY 17E	CY 18E	CY 17E (Y 18E	LT	CY 17E	Book
UK REGIONAL BROKERAGE FI	RMS										
Hargreaves Lansdown	\$ 21.64	2 %	99 %	\$ 10,281	35.6 x	32.7 x	(1)%	13 %	12 %	3.1 x	nm
Investec	6.98	(1)	82	6,875	na	9.2	28	8	10	na	1.1 x
TP ICAP (1)	6.83	(6)	92	3,775	15.0	12.3	98	2	9	1.7	na
Close Brothers Group	19.22	4	83	2,940	10.9	10.8	12	4	5	2.2	1.8
Numis	4.17	(O)	98	500	8.8	14.0	8	(5)	na	na	2.8
Median		(0)%	92 %		13.0 x	12.3 x	12 %	4 %	9 %	2.2 x	1.8 x
Mean		(0)	91		17.6	15.8	29	4	9	2.3	1.9
US BOUTIQUE BANKS											
Raymond James Financial	\$ 88.30	5 %	99 %	\$ 12,413	16.3 x	14.7 x	18 %	10 %	17 %	1.0 x	2.2 x
Stifel Financial	56.24	7	99	3,851	16.2	14.4	11	6	12	1.3	1.3
Piper Jaffray	78.55	8	96	1,014	11.5	13.1	16	(1)	na	na	1.3 x
Ladenburg Thalmann	3.45	14	100	719	nm	nm	14	7	15	na	2.0
Greenhill & Co.	20.30	13	63	533	nm	22.6	(31)	18	(25)	na	1.8 x
Cowen	14.90	1	82	461	11.0	5.8	45	21	na	na	0.4
JMP Group	5.30	(4)	69	114	10.7	9.7	8	3	10	1.1	1.0 x
Median Mean		7 % 7	96 % 87		11.5 x 13.2	13.7 x 13.4	14 % 12	7 % 9	12 % 6	1.1 x 1.1	1.3 x 1.4

FINANCIAL **TECHNOLOGY** PARTNERS

U.S. Securities / Capital Markets Technology IPO Tracker

Filing Date	IPO Date	Company	Amount Raised	IPO Price	Current Price	Current Market Cap	Total Return	Research Profile
04/04/16	04/27/16	Yintech	\$101 mm	\$13.50	\$10.48	\$735	-22%	VIEW
02/20/15	04/16/15	VIRTU FINANCIAL	314	19.00	16.30	1,455	-14%	VIEW
05/05/14	06/19/14	markit®	1,300	24.00	44.62	17,662	86%	VIEW
08/31/09	12/15/10	GAIN CAPITAL	81	9.00	7.55	340	-16%	
09/07/10	12/02/10	Z FXCM	211	14.00	0.50	3	-96%	
06/04/10	11/18/10	TLPL Financial	470	30.00	51.84	4,673	73%	
03/26/10	07/29/10	ENVESTNET'	100	9.00	49.15	2,178	446%	
03/10/10	06/15/10	CBOE	339	29.00	123.43	14,004	326%	
06/13/07	03/31/10	SS&C	161	7.50	41.29	8,500	451%	
12/09/09	03/16/10	financial engines	146	12.00	27.90	1,767	133%	
07/31/07	11/15/07	MSCI 🌐	252	18.00	128.70	11,592	615%	
11/27/06	05/04/07	Interactive Brokers	46	30.01	57.06	4,078	90%	
03/23/05	11/16/05	ıce	416	26.00	71.45	41,800	175%	
05/06/04	05/03/05	M RNINGSTAR	141	18.50	92.30	3,925	399%	

For more details on FinTech IPO activity, please view our continually updated, in-depth IPO Infographic





On July 12, 2016, IHS and Markit announced the completion of their merger. These numbers now reflect the merged entity.

FINANCIAL TECHNOLOGY PARTNERS

Selected Large / Significant M&A Transactions

Announced Date	Transaction Overview	Company	Selected Buyers / Investors	Amount (\$mm)	Researc Profile
03/21/16	IHS and Markit have Agreed to Merge	Markit	IHS	\$5,500	VIEW
10/24/16	TD Ameritrade has Agreed to Acquire Scottrade for \$4 bn	Scottrade	TD Ameritrade	4,000	VIEW
04/08/16	BM&FBOVESPA has Agreed to Acquire Cetip for \$3.3 bn	Cetip	BM&FBOVESPA	3,300	
05/15/17	Moody's has Agreed to Acquire Bureau van Dijk for \$3.3 bn	Bureau van Dijk	Moody's	3,270	VIEW
09/26/16	Chicago Board Options Exchange has Agreed to Acquire Bats Global Markets for \$3.2 bn in Cash and Stocks	Bats Global Markets	Chicago Board Options Exchange	3,200	VIEW
03/07/17	Hellman & Friedman and GIC have Agreed to Acquire Allfunds Bank for approximately \$1.9 bn	Allfunds Bank	Hellman & Friedman; GIC	1,902	VIEW
11/11/15	Tullett Prebon has Agreed to Acquire ICAP's Global Brokering Business for \$1.7 bn	ICAP's Global Brokering Business	Tullett Prebon	1,660	
04/20/17	Virtu Financial Acquires KCG Holdings for \$1.4 bn	KCG Holdings	Virtu Financial	1,400	VIEW
06/26/17	Link Group Acquires Capita Asset Services for Approximately \$1.1 bn	Capita Asset Services	Link Group	1,129	VIEW
03/09/16	Nasdaq Acquires International Securities Exchange for \$1.1 bn	International Securities Exchange Holdings	Nasdaq	1,100	VIEW
04/11/16	Huatai Securities has Agreed to Acquire AssetMark	AssetMark	Huatai Securities	780	VIEW
07/25/16	E*Trade Financial Corporation Acquires OptionsHouse for \$725 mm in Cash	OptionsHouse	E*Trade Financial Corporation	725	VIEW
10/27/17	TMX Group Acquires Trayport Valued at Approximately \$722 mm	Trayport	TMX Group	722	VIEW
09/07/17	Genstar Capital has Agreed to Acquire Institutional Shareholder Services for \$720 mm	Institutional Shareholder Services	Genstar Capital	720	VIEW
09/05/17	Nasdaq has Agreed to Acquire eVestment for \$705 mm	eVestment	Nasdaq	705	VIEW
05/30/17	London Stock Exchange has Agreed to Acquire Citi's Fixed Income Indices and The Yield Book for \$685 mm	Citi's Fixed Income Indices and The Yield Book	London Stock Exchange	685	VIEW
11/16/15	Intercontinental Exchange Acquires Trayport for \$650 mm in Stock	Trayport	Intercontinental Exchange	650	VIEW
11/28/17	Itiviti Acquires Ullink for Approximately \$650 mm	Ullink	ltiviti	650	VIEW
06/06/16	Intertrust has Agreed to Acquire Elian for \$625.3 mm	Elian	Intertrust Group	625	VIEW
11/13/17	WisdomTree Investments Acquires ETF Securities' European ETC Businesses for \$611 mm	ETF Securities' European ETC Businesses	WisdomTree Investments	611	



Highlighted Recent M&A Transactions

MERGERS	& ACQUISITIONS		
Date	Acquirer / Target	Value (\$ mm)	Comments
11/28/17	ITIVITI UIIIK CONNECT. TRADE. VIEW RESEARCH PROFILE	\$650	 Ullink develops and provides multi-asset trading technology and infrastructure for buy-side and sell-side market participants Itiviti delivers trading infrastructure and solutions for a sustainable competitive edge in the capital markets industry On November 28, 2017, HgCapital has announced it has received a definitive binding offer from Itiviti, a company backed by Nordic Capital, to acquire Ullink Itiviti, backed by Nordic Capital Fund VII, announced the intention to merge with Ullink to build a full-service technology and infrastructure provider for global and regional financial institutions
11/13/17	WISDOMTREE* Control Securities European ETC Business	611	 ETF Securities is a privately owned investment manager that launches and manages ETFs WisdomTree Investments (NasdaqGS:WETF) operates as an exchange-traded funds (ETFs) sponsor and asset manager On November 13, 2017, WisdomTree announced it has acquired the European exchange-traded commodity, currency, and short-and-leveraged businesses from ETF Securities for \$611 million The acquisition will provide WisdomTree with immediate scale in the Europe, greater AUM diversification, and a leading position in the European-listed commodity products
11/07/17	Invest the Change VAULT	na	 Vault is a digital investing platform powering small business retirement plans through automated portfolio management technology Acorns is a US-based micro-investing app that allows users to invest in a portfolio of ETFs from top asset managers On November 7, 2017, Acorns announced it has entered into an agreement to acquire Vault A main reason for the acquisition was Acorns' desire to enter the Portland, Oregon market, which has a plethora of technology and engineering talent



Highlighted Recent M&A Transactions (cont.)

MERGERS	& ACQUISITIONS		
Date	Acquirer / Target	Value (\$ mm)	Comments
11/02/17	DYNAMO SOFTWARE HoldingsInsight	na	 HoldingsInsight is a portfolio investments data capture and reporting service that focuses on providing limited partners with better transparency into their portfolio Dynamo Software has provided premium industry-specific, configurable investment management and reporting software for the global alternative assets industry On November 2, 2017, Dynamo Software announced it has entered into an agreement to acquire HoldingsInsight The acquisition will allow limited partners to pull specific portfolio holdings data into their Dynamo modules
10/27/17	TMX O TRAYPORT VIEW RESEARCH PROFILE	~\$722	 Trayport develops and delivers electronic energy trading systems and matching engine solutions for broking, exchange, and trading markets TMX Group operates exchanges, markets and clearing houses for capital markets in Canada. On October 27, 2017, TMX Group (TSX:X) announced it has entered into an agreement to acquire Trayport from Intercontinental Exchange (NYSE:ICE) for approximately \$459 million in cash and certain TMX Assets In addition to the cash amount, ICE will be receiving NGX and Shorcan Energy Brokers worth a combined ~\$263 million, for a total consideration of approximately \$722 million
10/24/17	VIEW RESEARCH PROFILE	400	 BondPoint is a provider of electronic fixed income trading solutions for the buy-side and sell-side, offering access to liquidity and automated trade execution services through its ATS, which links more than 500 financial services firms Intercontinental Exchange (ICE) operates regulated exchanges, clearing houses, and listings venues for financial and commodity markets On October 24, 2017, Intercontinental Exchange (NYSE:ICE) announced it has entered into an agreement to acquire BondPoint from Virtu Financial (NASDAQ:VIRT) for \$400 million in cash ICE's acquisition of Virtu BondPoint is yet another push into the international bond market



Highlighted Recent M&A Transactions (cont.)

MERGERS	& ACQUISITIONS		
Date	Acquirer / Target	Value (\$ mm)	Comments
10/19/17	TRUST COMPANY OF AMERICA BE MORE YOU VIEW RESEARCH PROFILE	\$275	 Trust Company of America ("TCA") provides integrated consultative services and back office support services for registered investment advisors E*TRADE Financial Corporation provides brokerage and related products and services for individual investors and stock plan participants On October 19, 2017, Trust Company of America announced its sale to E*TRADE for \$275 million in cash The acquisition will allow E*TRADE to tap into the growing RIA segment in the industry and bolster its ability to attract and retain customers in need of higher-touch services FT Partners served as exclusive strategic and financial advisor to TCA on this transaction
10/18/17	ascensus® PROVIDENT TRUST GROUP	na	 Provident Trust Group LLC offers investment services such as retirement solutions, self directed IRAs, trust and escrow services, fund administration, collective trust fund, etc. Ascensus provides retirement planning and college savings services in the United States On October 18, 2017, Ascensus announced it has entered into an agreement to acquire Provident Trust Group The acquisition allows Ascensus to participate in the large and growing self-directed IRA market that are focused on traditional and alternative asset classes
10/18/17	LOVELL MINNICK PARTNERS TORTOISE INVESTMENT MANAGEMENT	na	 Tortoise, through its registered advisers, provides asset and income investing with numerous actively and passively managed energy and fixed income solutions Lovell Minnick Partners is an independent private equity firm specializing in the financial and business services sectors. On October 18, 2017, Lovell Minnick Partners and Tortoise Investments, the Company's ongoing management team, announced it has entered into an agreement to acquire Tortoise from Mariner Holdings and the retiring co-founders of Tortoise This partnership will continue Tortoise's commitment of attracting and retaining top talent through employee ownership and interest alignment

FINANCIAL TECHNOLOGY PARTNERS

Selected Recent M&A Transactions

Announced Date	Transaction Overview	Company	Selected Buyers / Investors	Amount (\$mm)
11/29/17	Euronext has Agreed to Acquire Irish Stock Exchange for Approximately \$160 mm	Irish Stock Exchange	Euronext N.V.	\$160
11/28/17	Information Publishing Acquires CapitalTrack	CapitalTrack	Information Publishing	na
11/28/17	Itiviti Acquires Ullink for Approximately \$650 million	Ullink	ltiviti	650
11/22/17	ION Acquires Dealogic	Dealogic	ION	na
11/16/17	Visible Alpha Acquires Alpha Exchange	Alpha Exchange	Visible Alpha	na
11/16/17	Zhongping Capital has Agreed to Acquire SunGard Kingstar Data System	SunGard Kingstar	Shanghai Zhongping Capital	na
11/15/17	Cortland Capital Market Services Acquires Alter Domus	Alter Domus	Cortland Capital Market Services	na
11/13/17	WisdomTree Investments Acquires ETF Securities' European ETC Businesses for \$611 mm	ETF Securities' European ETC Businesses	Wisdomtree Investments	611
11/09/17	Dynatrace Acquires Qumram	Qumram	dynaTrace software	na
11/07/17	Acorns Acquires Vault	Vault	Acorns	na
11/07/17	Investoo Acquires Bitcoinmag.de	Bitcoinmag.de	Investoo	na
11/06/17	Stonepeak Infrastructure Partners has Agreed to Acquire Majority stake in euNetworks	euNetworks	Stonepeak Infrastructure Partners	na
11/02/17	Dynamo Software Acquires HoldingsInsight	HoldingsInsight	Dynamo Software	na
11/02/17	Cboe Global Markets Acquires Silexx Financial Systems	Silexx Financial Systems	Chicago Board Options Exchange	na
10/30/17	ION has Agreed to Acquire Aspect	Aspect Enterprise Solutions	ION	na
10/30/17	Ascensus Acquires Retirement Strategies	Retirement Strategies	Ascensus	na
10/30/17	Fosun Acquires Majority Stake in BondlT for \$14 mm	BondIT	Fosun International	14
10/27/17	TMX Group Acquires Trayport Valued at Approximately \$722 mm	Trayport	TMX Group	722
10/26/17	Vantage FX Acquires Atom8	Atom8	Vantage FX	na
10/25/17	Interactive Investor Acquires Trustnet Direct's Investment Platform Business	Trustnet Direct?s Investment Platform Business	Interactive Investor	na
10/24/17	Intercontinental Exchange Acquires Virtu BondPoint For \$400 mm in Cash	Virtu BondPoint	Intercontinental Exchange	400
10/23/17	Ascensus Acquires Polycomp	Polycomp	Ascensus	na

Selected Recent M&A Transactions (cont.)



nnounced Date	Transaction Overview	Company	Selected Buyers / Investors	Amount (\$mm)
10/19/17	E*Trade Acquires Trust Company of America for Approximately \$275mm	Trust Company of America	E*Trade Financial Corporation	\$275
10/18/17	Lovell Minnick and Management have Agreed to Acquire Tortoise	Tortoise	Lovell Minnick Partners; Management; HarbourVest Partners; AlpInvest Partners N.V.	na
10/18/17	Ascensus has Agreed to Acquire Provident Trust Group	Provident Trust Group	Ascensus	na
10/17/17	Circle Acquires Trigger Finance	Trigger Finance	Circle Internet Financial	na
10/13/17	SS&C Technologies Acquires CommonWealth Fund Services	CommonWealth Fund Services	SS&C Technologies	na
10/12/17	Sweetbridge Acquires Aperio Group	Aperio Group	Sweetbridge	na
10/10/17	Trading Technologies International Acquires Neurensic	Neurensic	Trading Technologies International	na
10/10/17	Solium Acquires Capshare	Capshare	Solium	na
10/09/17	ProService Agent Transferowy Acquires IFAS	IFAS	ProService Agent Transferowy	na
10/05/17	Investoo Acquires RoboAdvisors	RoboAdvisors	Investoo	na
10/05/17	Aviva has Agreed to Acquire Majority Stake in Wealthify	Wealthify	Aviva	na
10/02/17	Francisco Partners Acquires Majority Stake in Dynamo Software	Dynamo Software	Francisco Partners	na
10/02/17	eClerx Acquires TwoFour Consulting	TwoFour Systems	eClerx	na
10/02/17	Geely & Sampo Acquire Saxo Bank	Saxo Bank	Sampo Group; Zhejiang Geely Holding Group	311
09/27/17	Yintech Investment Holdings Acquires Forthright Securities for Approximately \$2.1 mm	Forthright Securities	Yintech Investment Holdings	2
09/25/17	Envestnet has Agreed to Acquire FolioDynamix for \$195 mm	FolioDynamix	Envestnet	195
09/21/17	iCapital Network has Agreed to Acquire US Private Equity Access Fund Platform from Deutsche Bank	US Private Equity Access Fund Platform	iCapital Network	na
09/21/17	QuantHouse has Agreed to Acquire Victory Networks	Victory Networks	QuantHouse	na
09/21/17	Devonshire Research Group Acquires NowandFutures	NowandFutures	Devonshire Research Group	na
09/15/17	eShares Acquires Silicon Valley Bank Analytics	Silicon Valley Bank Analytics	eShares	na
09/14/17	Investoo Acquires SocialTradingGuru.com	Socialtradingguru.com	Investoo	na

Securities / Capital Markets / Wealth Technology Financings

FINANCIAL TECHNOLOGY PARTNERS

Selected Large / Significant Financing Transactions

Announced Date	Transaction Overview	Company	Selected Buyers / Investors	Amount (\$mm)	Researc Profile
11/12/15	Amundi Raises Approximately \$1.6 bn in its IPO	Amundi	Public market investors	\$1,600	
05/31/16	The Carlyle Group Acquires Minority Stake in ION Investment for \$400 mm	ION Investment	The Carlyle Group	400	VIEW
10/24/17	Intercontinental Exchange Acquires 4.7% Stake in Euroclear For Approximately \$324 mm	Euroclear	Intercontinental Exchange	324	
02/05/16	CMC Markets Raises Approximately \$314.9 mm in its IPO	CMC Markets	Undisclosed Investors	315	
04/15/16	Bats Global Markets Raises Approximately \$252.7 mm in its IPO	Bats Global Markets	Public market investors	253	VIEW
11/20/17	Netwealth Raises Approximately \$200 mm in its IPO	Netwealth Group	Public market investors	200	VIEW
06/13/17	Futu Securities has Secured \$145.5 mm in Series C Financing led by Tencent	Futu Securities	Tencent; Sequoia Capital China; Matrix Partners China	146	
06/08/17	Addepar Secures \$140 mm in Series D Financing Led by Valor Equity Partners and 8VC	Addepar	Valor Equity Partners; 8VC; Undisclosed Investors	140	
07/02/16	Veracity Investments Acquires 5% Stake in National Stock Exchange of India for Approximately \$135.4 mm	National Stock Exchange of India	Veracity Investments	135	
04/15/16	General Atlantic has Agreed to Acquire an Additional stake in XP Investimentos for \$130 mm	XP Investimentos	General Atlantic	130	VIEW
11/18/16	Bravura Solutions Raises Approximately \$112 mm in its IPO	Bravura Solutions	Undisclosed Investors	112	
04/26/17	Robinhood Secures \$110 mm in Series C Financing Led by DST Global	Robinhood	DST Global; Thrive Capital; New Enterprise Associates; Greenoaks Capital Management; Ribbit Capital; Index Ventures	110	VIEW
04/27/16	Yintech Investment Holdings Raises Approximately \$101.3 mm in its IPO	Yintech Investment Holdings	Public market investors	101	VIEW
03/29/16	Betterment Secures \$100 mm in Series E Financing Led by Investment AB Kinnevik	Betterment	Investment AB Kinnevik; Bessemer Venture Partners; Anthemis Group; Menlo Ventures; Francisco Partners	100	VIEW
08/16/17	Options IT Secures \$100 mm in Financing from Bregal Sagemount	Options IT	Bregal Sagemount	100	VIEW
12/24/16	Chinese Consortium has Agreed to Acquire 40% Stake in Pakistan Stock Exchange for \$84 mm	Pakistan Stock Exchange	Chinese Consortium	84	
05/19/16	Personal Capital Secures \$75 mm in Series D Financing	Personal Capital	IGM Financial	75	VIEW
09/21/16	OurCrowd Secures \$72 mm in Series C Financing	OurCrowd	Undisclosed Investors	72	VIEW
07/21/17	Betterment Secures \$70 mm in Series E Financing Led by Kinnevik	Betterment	Investment AB Kinnevik; Bessemer Venture Partners; Menlo Ventures; Francisco Partners	70	VIEW
06/06/17	Cadre Secures \$65 mm in Series C Financing Led by Andreessen Horowitz	Cadre	Andreessen Horowitz; The Ford Foundation; General Catalyst Partners; Goldman Sachs; Khosla Ventures; Thrive Capital; Undisclosed Investors	65	VIEW

Securities / Capital Markets / Wealth Technology Financings



Highlighted Recent Financing Transactions

FINANCINGS					
Date	Target / Investor(s)	Value (\$ mm)	Comments		
11/20/17	netwealth Initial Public Offering VIEW RESEARCH PROFILE	~\$200	 Netwealth Group (ASX:NWL) provides a superannuation and non-superannuation platform to financial intermediaries and clients, which offers portfolio administration, investment management tools, investment and managed account solutions On November 20, 2017, Netwealth Group listed shares on the Australian Stock Exchange (ASX) with estimated gross proceeds of A\$264 million or ~\$200 million The Company intends to use the offering proceeds for greater financial flexibility to continue to grow the business and provide greater public exposure for Netwealth and its products 		
11/14/17	BEHAVOX The people analytics company Investor(s): Citigroup, Index Ventures	20	 Behavox is a software and services company providing holistic employee surveillance solutions such as employee monitoring and a risk scoring system for the capital markets sector On November 14, 2017, Behavox announced it has secured \$20 million in Series B financing from Citigroup and Index Ventures Post-money valuation of Behavox now is approximately \$200 million 		
11/08/17	Investor(s): Goldman Sachs Principal Strategic Investments	10	 Crux Informatics offers data processing services financial services and capital markets On November 8, 2017, Crux Informatics announced it secured \$10 million in Series A financing from Goldman Sachs Principal Strategic Investments (PSI) Proceeds will be used to expand the product suite for its large customers in financial services 		

Securities / Capital Markets / Wealth Technology Financings



Highlighted Recent Financing Transactions (cont.)

FINANCINGS				
Date	Target / Investor(s)	Value (\$ mm)	Comments	
11/06/17	Investor(s): Sequoia Capital India, Wavemaker Partners, Jungle Ventures, Spring Seeds	\$14	 Smartkarma is a collaborative marketplace for Asian investment research and analysis On November 6, 2017, Smartkarma announced it has secured \$13.5 million in Series B financing from Sequoia Capital India, Wavemaker Partners, Jungle Ventures, and Spring Seeds Following its rapid growth and funding, the Company plans on opening new offices in Germany and New York 	
10/19/17	Investor(s): Cota Capital, Oriza Ventures, Intel Capital	na	 Bigstream provides hyper-acceleration of popular big data and machine learning platforms through advanced compiler and runtime technology, and automatic programming of FPGAs. On October 19, 2017, Bigstream announced it has closed its Series A funding from Cota Capital, Oriza Ventures and Intel Capital In addition to the investment, Intel and Bigstream plan on working together on sales and marketing campaigns targeting the financial services, AdTech and public sector industries 	
10/16/17	Digital Asset Holdings Investor(s): Jefferson River Capital	40	 Digital Asset is a blockchain platform that facilitates the safe and efficient settlement between digital and traditional currencies On October 16, 2017, Digital Asset Holdings announced it has closed its Series B round of \$40 million from existing and new investors, led by Jefferson River Capital The proceeds from the round will likely be used for further acquisitive, inorganic growth 	

Securities / Capital Markets / Wealth Technology Financings



Highlighted Recent Financing Transactions (cont.)

FINANCINGS						
Date	Target / Investor(s)	Value (\$ mm)	Comments			
10/11/17	Investor(s): QED Investors, Radicle Impact, Initialized Capital	\$8	 True Link is a diversified financial services firm offering a range of money management, investment and insurance products, primarily for retirees On October 11, 2017, True Link Financial announced it has closed its Series A round of \$8 million led by QED Investors, with additional investments from Radicle Impact Initialized Capital As part of the deal, QED's Partner Frank Rotman will be joining True Link's Board of Directors 			
10/11/17	Investor(s): Menlo Ventures, Social Capital VIEW RESEARCH PROFILE	42	 eShares operates as a transfer agent that converts paper stock certificates into electronic ones On October 11, 2017, eShares announced it has closed its Series C round of \$42 million led by Menlo Ventures and Social Capital With this Series C, eShares hopes to eventually become the replacement for underwriting bankers 			
10/11/17	Investor(s): Illuminate Financial, Main Incubator	~1	 TransFICC provides trading solutions for the electronic fixed income and derivatives markets On October 11, 2017, TransFICC announced it has secured approximately \$1.18 million in early stage investment from Illuminate Financial and Commerzbank's Main Incubator As part of the deal, Illuminate Financial's Mark Whitcroft and Main Incubator's Christoph Osburg will become Non-Executive Board of Directors 			

Securities / Capital Markets / Wealth Technology Financings

FINANCIAL TECHNOLOGY PARTNERS

Selected Recent Financing Transactions

Innounced Date	Transaction Overview	Company	Selected Buyers / Investors	Amount (\$mm)
11/27/17	CharityStars Secures \$4 mm in Financing	CharityStars	Undisclosed Investors	\$4
11/27/17	Omniex Secures \$5 mm in Seed Financing Led by Wicklow Capital	Omniex	Wicklow Capital; Sierra Ventures; Digital Currency Group; Clocktower Technology Ventures; ThirdStream Partners;	5
11/23/17	BUX Secures Approximately \$1.5 mm in Crowdfunding Financing	BUX	Undisclosed Investors	2
11/23/17	Fountain.money Secures Seed Financing	Fountain.money	Charlotte Street Capital; Goldman Sachs; Societe Generale Group; Citigroup; Deutsche Bank;	na
11/22/17	200crowd Secures Approximately \$0.3 mm in Seed Financing	200crowd	Undisclosed Investors	<1
11/21/17	Heckyl Technologies Secures \$2.7 mm in Financing Led by Notion Capital	Heckyl Technologies	Notion Capital; IDG Ventures India	3
11/20/17	Netwealth Raises Approximately \$200 mm in its IPO	Netwealth Group	Undisclosed Investors	200
11/20/17	First Access Secures \$7 mm in Financing Led by Bamboo Finance	First Access	Bamboo Finance; The Social Entrepreneurs Fund; Impact Engine; 500 Startups; Colle Capital;	7
11/20/17	Crowd Realty Secures Approximately \$3.1 mm in Financing	Crowd Realty	SBI Investment; The Bank of Tokyo-Mitsubishi UFJ; Mitsubishi UFJ Capital; Kabu.com	3
11/17/17	Compliance Science Secures \$8.2 mm in Financing	Compliance Science	Undisclosed Investors	8
11/17/17	Jibrel Network Secures \$3.2 mm in Financing	Jibrel Network	Undisclosed Investors	3
11/16/17	European Energy Exchange Acquires 12.3% Stake in Powernext	Powernext S.A.	European Energy Exchange	na
11/15/17	Forex Development Corporation Secures Financing from Krypton Capital	Forex Development Corporation	Krypton Capital	na
11/15/17	BrickX Secures Series A Financing from Reinventure Group	BrickX	Reinventure Group	na
11/14/17	CleanCapital Secures \$3.7 mm in Series A Financing	CleanCapital	SeedInvest	4
11/14/17	Behavox Secures \$20 mm in Series B Financing Led by Citigroup	Behavox	Citigroup; Index Ventures	20
11/13/17	TheStreet Secures \$7.9 mm in Financing from 180 Degree Capital	TheStreet	180 Degree Capital	8
11/13/17	The Good Box Secures Approximately \$3.2 mm in Financing	The Good Box	Undisclosed Investors	3
11/08/17	Crux Informatics Secures \$10 mm in Series A Financing Led by Goldman Sachs	Crux Informatics	Goldman Sachs	10
11/07/17	Angel CoFund Acquires Minority Stake in OTCX Trading	OTCX Trading	Angel CoFund	na
11/07/17	Neufund Secures Approximately \$11.6 mm in Financing	Neufund	Undisclosed Investors	12

Securities / Capital Markets / Wealth Technology Financings

FINANCIAL TECHNOLOGY PARTNERS

Selected Recent Financing Transactions (cont.)

Announced Date	Transaction Overview	Company	Selected Buyers / Investors	Amount (\$mm)
11/06/17	Smartkarma Secures \$13.5 mm in Series B Financing Led by Sequoia Capital India	Smartkarma	Sequoia Capital India; Jungle Ventures; Wavemaker Partners; SPRING SEEDS Capital	\$14
11/06/17	DiGAME Acquires Stake in 10X Investments for \$6 mm	10X Investments	DIGAME	6
11/03/17	AlgoMerchant Secures \$2 mm in Financing	ALGOMERCHANT	East Ventures; Undisclosed Investors	2
11/03/17	Funderbeam Secures Approximately \$5.8 mm in Financing	Funderbeam	Undisclosed Investors	6
11/03/17	Smartr365 Secures Approximately \$1.3 mm in Seed Financing Led by Fig	Smartr365	Fig	1
11/02/17	CFX Markets Secures \$2.2 mm in Series A Financing Led by West Loop Ventures	CFX Markets	Undisclosed Investors; Undisclosed Investors; West Loop Ventures; M25 Group; Origami Capital Partners; Harvard Business School Angels Chicago; SixThirty	2
11/02/17	Stratumn Secures Approximately \$1.2 mm Additional in Series A Financing	Stratumn	BNP Paribas Cardif	1
11/01/17	Wahed Secures \$7 mm in Seed Financing	Wahed	BECO Capital; Cue Ball	7
10/26/17	Constellation Digital Partners Secures \$3 mm in Financing from Kinecta Federal Credit Union	Constellation Digital Partners	Kinecta Federal Credit Union	3
10/26/17	Templum Secures \$2.7 mm in Seed Financing	Templum	Raptor Group; Galaxy Investment Partners; Blockchain Capital; Firstminute Capital	3
10/25/17	ClickIPO Secures \$3 mm in Seed Financing	ClickIPO	TAG Capital Ventures; Enterprise Investors (EI); Arizona Technology Investors; Desert Angels; Undisclosed Investors	3
10/24/17	BUX Secures Approximately \$12.5 mm in Series C Financing Led by Holtzbrinck Ventures	BUX	Holtzbrinck Ventures; Velocity Capital; Undisclosed Investors;	13
10/24/17	Intercontinental Exchange Acquires 4.7% Stake in Euroclear For Approximately \$324 mm	Euroclear	Intercontinental Exchange	324
10/19/17	Bigstream Secures Series A Financing	Bigstream	Intel Capital; Oriza Ventures; Cota Capital	na
10/19/17	PostFinance Acquires Minority Stake in Sentifi	Sentifi	Postfinance	na
10/18/17	Alloy Secures \$3.8 mm in Seed Financing Led by Eniac Ventures	Alloy	ENIAC Ventures	4
10/17/17	CapBridge Secures \$2.9 mm in Financing from Asian Gateway Investments	CapBridge	Asian Gateway Investments; Undisclosed Investors	3
10/16/17	Digital Asset Holdings Secures \$40 mm in Series B Financing Led by Jefferson River Capital	Digital Asset Holdings	Jefferson River Capital; Undisclosed Investors	40
10/12/17	Miotech Secures \$7 mm in Series A Financing Led by Horizons Ventures	Miotech	Horizons Ventures; ZhenFund	7
10/11/17	True Link Secures \$8 mm in Series A Financing Led by QED Investors	True Link	QED Investors; Radicle Impact; Initialized Capital	8
10/11/17	eShares Secures \$42 mm in Series C Financing Led by Menlo Ventures and Social Capital	eShares	Social Capital; Menlo Ventures	42
10/11/17	TransFICC Secures Approximately \$1.18 mm in Financing	TransFICC	Commerzbank; Illuminate Financial	1



Key Industry Conferences & Events (cont.)

Date	Conference	Location	Website
RiskMinds International Dec. 4 – 8, 2017	RISKMINDS INTERNATIONAL 2017 The world's largest risk management event, now in its 24th year. 650+ CROs, regulators, academics and experts discuss: IFRS 9, operational risk, emerging risk, recovery, resolution, liquidity risk, model risk, central clearing, CCPs, initial margin, FRTB, market risk, credit risk, XVAs, pricing, stress testing, conduct, culture, compliance, reputational risk, fintech and more.	Amsterdam, Netherlands	<u>Details</u>
EQUITIES LEADERS SUMMIT Dec. 4 – 6, 2017	EQUITIES LEADERS SUMMIT 2017 Equities Leaders Summit 2017 is to empower the buy side to exploit advanced trading strategies and technologies. The conference provides the opportunity to rub shoulders with 300 equity trading leaders, including regulators, buy side, sell side, venues, and technology partners, all under one roof.	Miami Beach, FL USA	<u>Details</u>
Dec. 4 – 5, 2017	FINOVATE MIDDLE EAST 2017 Finovate Middle East brings together the entire fintech community to showcase cutting-edge banking, financial and payments technology in a unique, short-form, demo-only format as well as insights from global financial service experts. Over 300 industry leaders, 20 FinTech innovator demonstrations, and thousands over professionals will be in attendance.	Dubai, UAE	<u>Details</u>
Finech CONNECTLINE! Dec. 6 – 7, 2017	FINTECH CONNECT LIVE 2017 FinTech Connect Live is a marketplace where technology and innovation professionals from leading financial institutions come to assess the latest products in their fields, where investors go to meet high potential growth businesses, where partnerships are forged between established tech providers and new market entrants, where start ups and scale ups go to meet financiers, advisors and prospect customers, and where the very latest cutting edge products on the market are demoed.	London, UK	<u>Details</u>



Key Industry Conferences & Events (cont.)

Mar. 12 – 14, 2017

Date	Conference	Location	Website
Paris Fintech Forum WAlt ir paris Intectorum.com Jan. 30 – 31, 2018	PARIS FINTECH FORUM 2018 The Paris FinTech Forum brings together 2,000 participants from 45 different countries to discuss the core issues in digital finance and FinTech. The conference will feature keynote speakers, panels, interviews, presentations, thematic workshops and an exclusive gala dinner.	Paris, France	<u>Details</u>
Strade tech FX Feb. 12 – 14, 2018	TRADETECH FX USA 2018 TradeTech FX 2018 provides a venue for leaders from the entire FX value chain – regulators, buy and sell side firms, trading platforms and technology partners – to discuss the issues currently facing the industry.	Miami, FL USA	<u>Details</u>
Feb. 13 – 16, 2018	FINOVATE EUROPE 2018 See cutting-edge banking, financial and payments technology in a unique, short-form, demo format. Plus new for 2018after the 70+ demos, get advice and insights from another 100+ fintech experts in a newly expanded programme. All taking place in a larger venue to accommodate increased demand.	London, UK	<u>Details</u>
FIBAAML Compliance Conference	AML 2018 FIBA's Annual Anti-Money Laundering and Financial Crimes Conference is the leading forum for professionals to discuss current legal and regulatory developments occurring in the financial industry.	Miami, FL USA	<u>Details</u>



Upcoming Industry Conferences & Events

	Date	Conference	Location	Website
DECEMBER	12/01 - 12/01/17	TDWI Austin 2017	Austin, TX, USA	<u>Details</u>
	12/03 - 12/05/17	Alternative Investing Summit 2017	Dana Point, CA, USA	<u>Details</u>
	12/04 - 12/04/17	The Future of Money and Technology Summit 2017	San Francisco, CA, USA	<u>Details</u>
	12/04 - 12/07/17	Gartner IT Infrastructure, Operations Management & Data Center Conference 2017	Las Vegas, NV, USA	<u>Details</u>
	12/04 - 12/08/17	RiskMinds International 2017	Amsterdam, Netherlands	<u>Details</u>
	12/04 - 12/06/17	Equities Leaders Summit 2017	Miami Beach, FL, USA	<u>Details</u>
	12/04 - 12/04/17	NeMa Africa 2017	London, UK	<u>Details</u>
	12/04 - 12/05/17	Finovate Middle East 2017	Dubai, UAE	<u>Details</u>
	12/05 - 12/06/17	Global Custody Forum 2017	London, UK	<u>Details</u>
	12/06 - 12/07/17	FinTech Connect Live 2017	London, UK	<u>Details</u>
JANUARY	01/01 - 01/01/18	Call Center Week Winter 2018	New Orleans, LA, USA	<u>Details</u>
	01/14 - 01/16/18	NRF Retail's Big Show 2018	New York, NY, USA	<u>Details</u>
	01/25 - 01/25/18	ISITC Europe General Meeting 2018	London, UK	<u>Details</u>
	01/30 - 01/31/18	Paris Fintech Forum 2018	Paris, France	<u>Details</u>
	01/30 - 01/31/18	EmTech Asia 2018	Singapore, Singapore	<u>Details</u>
	01/30 - 01/31/18	iGlobal Forum 9th Specialty Finance Summit 2018	New York, NY, USA	<u>Details</u>
	01/30 - 01/31/18	Next Money Fintech Finals 2018	Hong Kong, China	<u>Details</u>



Upcoming Industry Conferences & Events (cont.)

	Date	Conference	Location	Website
FEBRUARY	02/08 - 02/11/18	MoneyShow University Orlando 2018	Orlando, FL, USA	<u>Details</u>
	02/08 - 02/11/18	Security Traders Association of Florida 2018 Annual Conference	FL, USA	<u>Details</u>
	02/12 - 02/14/18	TradeTech FX USA 2018	Miami, FL, USA	<u>Details</u>
	02/13 - 02/16/18	Finovate Europe 2018	London, UK	<u>Details</u>
	02/19 - 02/21/18	Future of Finance 2018	London, UK	<u>Details</u>
	02/21 - 02/22/18	Dot Finance Africa 2018	Kigali, Rwanda	<u>Details</u>
	02/25 - 02/28/18	SFIG Vegas 2018	Las Vegas, NV, USA	<u>Details</u>
	02/26 - 03/01/18	GSMA Mobile World Congress 2018	Barcelona, Spain	<u>Details</u>
	02/27 - 02/28/18	World Exchange Congress 2018	Budapest, Hungary	<u>Details</u>
	02/27 - 03/01/18	EuroCIS 2018	Dusseldorf, Germany	<u>Details</u>
MARCH	03/04 - 03/09/18	SIFMA 2018	Philadelphia, PA, USA	<u>Details</u>
	03/04 - 03/06/18	AFT (Association for Financial Technology) Spring Summit 2018	Ojai, CA, USA	<u>Details</u>
	03/05 - 03/07/18	Hub 2018	Las Vegas, NV, USA	<u>Details</u>
	03/09 - 03/18/18	SXSW 2018	Austin, TX, USA	<u>Details</u>
	03/12 - 03/14/18	AML 2018	Miami, FL, USA	<u>Details</u>
	03/13 - 03/15/18	Money2020 2018, Asia	Singapore, Singapore	<u>Details</u>
	03/13 - 03/13/18	Boca 2018	Boca Raton, FL, USA	<u>Details</u>

FT Partners Quarterly FinTech Insights and Annual Almanac



FT Partners is the <u>only</u> data source for comprehensive, global FinTech deal activity covering M&A, Financing and IPO statistics and trends









Highlights of the reports include:

- Financing / M&A statistics and lists
- Most Active Investors: VC/PE, Corporate VC, Strategic
- Cross-border deals
- FinTech Sector Overviews and Breakdowns
- IPO Analysis

Click pictures to view reports









FT Partners Research – Digital Wealth Management Report



Are the Robots Taking Over? The Emergence of Automated Digital Wealth Management Solutions



FT Partners' 145-page report provides a comprehensive overview of key industry trends driving innovation in the wealth management space and how the industry is reacting to the emergence of Robo Advisors and other Digital Wealth Management disruptors.

Additional highlights of the report include:

- A discussion of the different Automated Digital Wealth Management platforms and business models
- The responses of incumbents in the wealth management space, including the innovations, partnerships and acquisitions being made to stay ahead of the game
- Interviews with eight CEOs of leading Digital Wealth pioneers including Betterment, Link Pacific Advisors, MyVest, NextCapital, Nutmeg, Riskalyze, SigFig and Vanare
- A detailed industry landscape of Digital Wealth Management providers as well as other innovative, tangential companies, profiles of 33 companies and a comprehensive list of private equity financing and M&A transactions in the space

Please visit our <u>website</u> for more proprietary FinTech Research & Follow FT Partners on <u>Twitter</u> and <u>LinkedIn</u> for real time updates on our Research Publications



Knowledge @ Wharton – Why the FinTech Game has Just Begun

Sept. 21, 2017:

Knowledge @
Wharton Podcast

Why the FinTech Game has Just Begun" with Steve McLaughlin, CEO at FT Partners

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- "You saw technology just explode whether [it was] mobile devices, data, the interconnectivity of everything, the globalization around the world... That's created an infinite amount of possibilities. But with the infinite amount of possibilities, I still think we're in the first or second innings. It does not feel like it's played out.
- "If we're helping our clients, that's great. But also, our clients are creating new technologies, which are creating more and more transparency, more and more efficiency in the market. To me, that's the trend that's going to keep financial services and financial tech going forever."
- "You can't just fight these big giants and win overnight. You're going to have to exist in the ecosystem...So learning how to work with the banks, with the insurance companies, with the government and some of the big bodies that are out there is very important."
- "I think probably the most important [trend] is financial inclusion. I wouldn't call it purely financial inclusion, but efficiency. And I think that really revolves around big data and I think that is going to revolve around deep learning and machine learning."

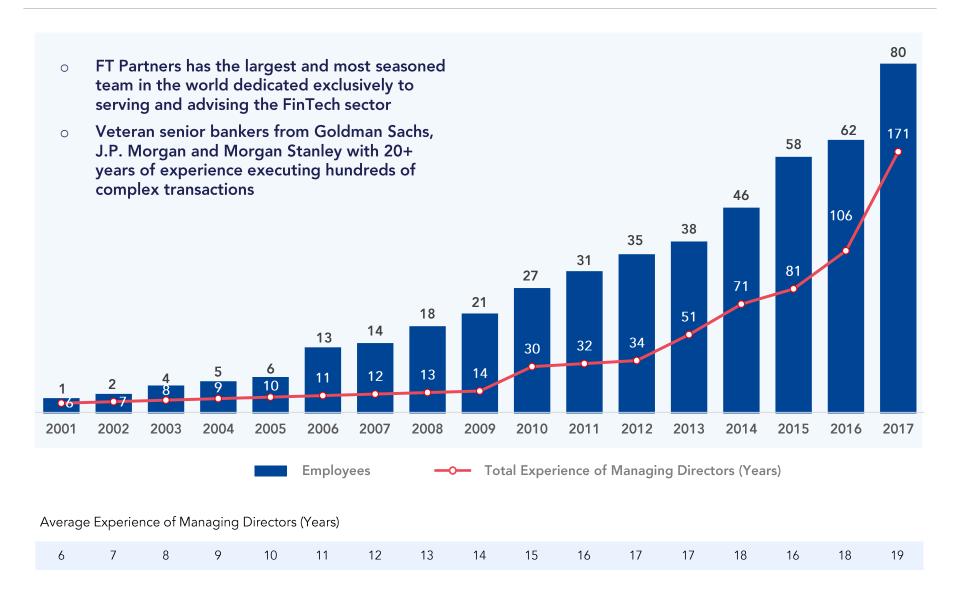


The FT Partners Senior Banker Team

Name / Position	Prior Background	Experience / Education	Years of Experience
Steve McLaughlin Founder, CEO and Managing Partner	Goldman Sachs	 Formerly with Goldman, Sachs & Co. in New York and San Francisco from 1995-2002 Former Co-Head of Goldman Sachs' Financial Technology Group (#1 market share) Wharton M.B.A. 	22
Larry Furlong Managing Director	Goldman Sachs	 Formerly with Goldman, Sachs & Co. in New York, London and Los Angeles beginning in 1995 Wharton M.B.A. 	22
Greg Smith Managing Director	Merrill Lynch J.P.Morgan	 Formerly award winning Equity Research Analyst at Merrill Lynch / J.P. Morgan / Hambrecht & Quist 20+ years of experience covering FinTech as both an Analyst and Investment Banker 	21
Osman Khan Managing Director	pwc	 Former Managing Director / Head of FIG M&A at Alvarez & Marsal 15+ years FIG deal, consulting and assurance experience at PwC 40 Under 40 M&A Advisor Award Winner in 2013 LSE (BSc w/Honors), MBS (MBA w/Distinction), ICAEW (FCA) 	20
Steve Stout Managing Director	J.P.Morgan First Data	 Former Global Head of Strategy at First Data Formerly Led J.P. Morgan Payments Investment Banking Former Equity Research Analyst on #1 ranked team at UBS and Economist at the Federal Reserve Bank 	19
Tim Wolfe Managing Director	Goldman Sachs	 Formerly with Goldman, Sachs & Co. beginning in 2000 Started at FT Partners in 2002 40 Under 40 M&A Advisor Award Winner 2013 Harvard M.B.A. 	15
Timm Schipporeit Managing Director	Morgan Stanley Index Ventures	 11+ years with Morgan Stanley, Senior Executive Director of European Technology Investment Banking Team in London Formerly a Venture and Growth Investor focused on FinTech at Index Ventures 	14
Andrew McLaughlin Managing Director	Deloitte.	 20+ years experience executing / implementing financial and operational strategy Formerly with Deloitte Consulting 	11

Platform of Choice for Clients and Bankers Alike





M&A Advisor Selects FT Partners for Industry Awards

FT Partners Named "Dealmaker" and "Investment Bank" of the Year



FT Partners consistently receives top industry recognition:

- Investment Banker of the Year (2017)
- Corporate and Strategic Deal of Year (2016)
 - Private Equity Deal of the Year (2016)
 - Cross Border Deal of the Year (2016)
- Investment Banking Firm of the Year (2004, 2006 and 2016)
 - Technology Deal of the Year (2015)
- **Dealmaker of the Year** (2007, 2008, 2009, 2012 and 2015)
 - Equity Financing Deal of the Year (2014)
 - Professional Services Deal of the Year (2012)
 - Boutique Investment Bank of the Year (2011)
 - Deal of the Decade (2011)
- Middle Market Deal of the Year, Cross-Border Deal of the Year and IT Services Deal of the Year (2010)
 - Deals of the Year (2005, 2006 and 2007)
 - Financing Professional of the Year (2006)
 - Product of the Year IPO Advisory (2006)
- 2017 ranked #1 on Institutional Investor's "FinTech Finance 35"
- 2008's top ranked investment banker named on Institutional Investors annual "Online Finance 40" ranking
 - Consecutively ranked for 3 years (2008, 2007, 2006)
- Founder and Managing Partner, Steve McLaughlin, lauded highest honors as both "Dealmaker of the Year" and "Financing Professional of the Year"
- Top award winning Investment Bank collecting more than 12 separate awards for outstanding performance and client results
 - FT Partners has received over 75 award nominations across an unprecedented array of categories
- FT Partners' "IPO Advisory" service as demonstrated in one of the most successful Payments IPOs in history, Verifone – received its third industry award in 12 months for Product of the Year
 - Previously recognized in our 2006 Financing Professional of the Year award and 2005 Deal of the Year



Dealmaker of the Year Investment Bank of the Year Deal of the Decade

Selected Transactions:

- \$275 mm sale of Trust Company of America to E*TRADE
- \$104 mm sale of PENSCO Trust Company to Opus Bank
- BlackRock's acquisition of FutureAdvisor
- \$175 mm sale of Alpha Trading Systems to the Maple Group
- Sale of EISI to Zywave, a Vista Equity Partners' portfolio company
- Sale of Instinet's stake in Chi-X Europe to BATS Global Markets
- Sale of TheMarkets.com to McGraw Hill / Standard & Poor's / Capital IQ
- \$700 mm sale of Automated Trading Desk to Citigroup
- \$225 mm sale of Wombat Financial Software to NYSE Euronext
- \$110 mm minority recapitalization for TradingScreen
- \$250 mm capital raise for Liquidnet
- \$56 mm sale of Majestic Research to ITG
- IPO advisory services for Envestnet's \$69 mm initial public offering
- \$35 mm capital raise for MarketAxess

Focused on Superior Client Service and Flawless Execution



Strategic Advisory Services

- Mergers
- Acquisitions
- Divestitures
- Fairness Opinions
- Anti-Raid Advice



Financial Advisory Services

- Capital Raising
- Private Equity
- Restructuring
- IPO Advisory
- Valuation

Client / Press Testimonials



"Steve and the entire FT Partners team truly far exceeded our expectations with this transaction. FT Partners' financial technology expertise, coupled with their team's relentless level of effort delivered maximum value to our shareholders." – Dr. Mark Evans, Founder and CEO of EISI



"FT Partners has been a valuable long-term partner and their team was instrumental in helping us explore the many different alternatives for the Company and to structure a transaction optimized for all parties." – Peter Sanchez, CEO of OpHedge



"Steve and the FT Partners team have been a trusted partner for Tora through this entire process. Their guidance on structuring this transaction and helping to connect us with a premier investor was critical to making this transaction an overwhelming success for all involved." – Robert Dykes, CEO of Tora



"FT Partners helped achieve the goals of all parties involved in the transaction. FT Partners counseled us through complex situations and provided sound advice at every step of the process." – David Eisner, CEO of TheMarkets.com



"We have enjoyed a long relationship with FT Partners and it has been a pleasure working with their entire team. Their depth of knowledge and strong focus on the entire breadth of the Securities and Capital Markets Financial Technology space was a valuable resource in our review of potential targets and eventual decision to acquire TORC, the first target recommended by FT Partners." – Anthony Abenante and Fumiki Kondo, Co-Chief Executive Officers of Instinet