

COVID-19 Impact on Fintech Markets



How Will the Fintech Community Respond to COVID-19?

Information

resilient

Overall, the COVID-19 impact is proving negative in the short term, but some areas are proving resilient and may even benefit over medium term.

- While there is current uncertainty, particularly around M&A, valuations, and credit pricing, there is still plenty of liquidity that is likely to lead to consolidation once the market recovers.
- Investors will continue to favour those domain players with platforms, high recurring (and/or re-occurring) revenues, high operating leverage, and robust cash flow generationd—with a particular emphasis on those with embedded digital and data and analytics capabilities.
- In the short term, B2C models are more vulnerable; B2B models, particularly those with subscription revenues, remain more resilient.

	Impact	Observations
		■ Short-term redemptions impacting end customers and short-term investments.
Asset and Wealth	Panic peaks and	■ Investors migrate to established brands with scale, impacting new entrants.
Management	caution prevails	☑ Industry focus on technology and data adoption to solve complex regulatory and workflow challenges continues.
		☑ Established lenders have vastly improved funding, liquidity, and capital positions; likely to withstand COVID-19 stress-test.
Banking and	■ Long-term	Despite demand for capital and consumers embracing technology to manage their money, challenger banks and specialist lender face a more turbulent environment.
Lending	fundamentals hold	■ Lenders scrambling to recalibrate underwriting methodologies.
		☑ Potential for short-term expense control, but innovation/technology transformation still top of C-suite agenda.
Payments	 B2C models to suffer profound short-term 	➤ Temporary paralysis in certain verticals and/or regions caused by cessation of global consumer and corporation spending and fa off in associated transaction volumes.
	implications	☑ E-commerce as a key channel already well entrenched and COVID-19 likely to accelerate digitisation initiatives.
Exchanges and	Exchanges gain as	✓ All asset classes currently benefitting from elevated volatility and trading activity.
Execution	volatility reigns	☑ Creating an opportunity for exchanges to consolidate their positions and move into adjacent markets.
	Adequately insured,	✓ A majority of participants theoretically absolved from pandemics, but growing scrutiny on the wider industry to provide flexibili
Insurance	with some variable	in paying out non-underwritten COVID-19 risks
	impacts	☑ Although providers have different exposures, COVID-19 anticipated to speed up digitisation and data-usage initiatives
Financial	■ B2B subscription	✓ Proprietary content has become embedded and nondiscretionary in nature, driving stable and predictable earnings
Information	models remain	COVID 10 impact an growth profile difficult to accortain and will drive multiples when markets stabilise

区OVID-19 impact on growth profile difficult to ascertain and will drive multiples when markets stabilise

How We Look at the Fintech Opportunity

Asset and Wealth Management	Banking and Lending	Payments	Capital Markets Software	Exchanges and Execution	Insurance	>	Financial Information	Financial Services End Markets
ALLVUE//\/	avalog	ACI payment systems	AXIOM SL	M ASX	acturis		asiakastieto	Asset and
alterDomus*	BLACK KNIGHT	adyen		1	CONNECTED THINKING		ZRIF	Wealth
APEX	CoreLogic	_	CALYPSO	bgc	Duck Creek		Cerved	Managers
ASSETMARK.	••••	Sottomline Technologies.	 CONFLUENCE description	Cboe CME Group	lectroogies*		dun & bradstreet	Banks and
Broadridge •	LI2	Fis	MCONI EDENCE		DXC.technology		EQUIFAX °	Broker-Dealers
ENVESTNET	tiserv.	fisery.	Ëis	DEUTSCHE BÖRSE GROUP	_		Experian	
Intertrust	FINASTRA	♥FLEETCOR®	' '_	EURONEXT	Ebix		FACTSET	Consumers
iress	Infosys	g global payments	FINASTRA	HKEX 作准交易所	C		FICO	Corporate
	jack henry & ASSOCIATES INC.	green dot	-50.	乔港交易所	Guidewire		IHS Markit	Issuers
Financial Engines	ORACLE'	dot	IHS Markit	ıce	Lemonade		🚣 illion	
MILLENNIUM TRUST COMPANY ABOVE AND REYOND CUSTODY	Ω^2		•	Liquidnet ~			Moody's	Insurance Underwriters
7 2012 11 20 20 10 10	SAP	mastercard. PayPal	10 M	London *	open gı ^o		MSCI (#)	and Brokers
☆ ORION	000				SAPIENS		MSCI	Mortgage/Real
SEI	SoFi	Square	ITIVITI	Nasdaq	SAPIENS		REFINITIV	Estate
	S sopra steria	Verifone	M	SGX■	♦ Verisk		RELX Group	Companies
	TATA		MUREX™				S&P Global	Nonbank/
SS&C	TEMENOS	VISA	☆ smart Trade	VIRTU FINANCIAL	Vertafore ⁻		TransUnion.	Alternative Lenders

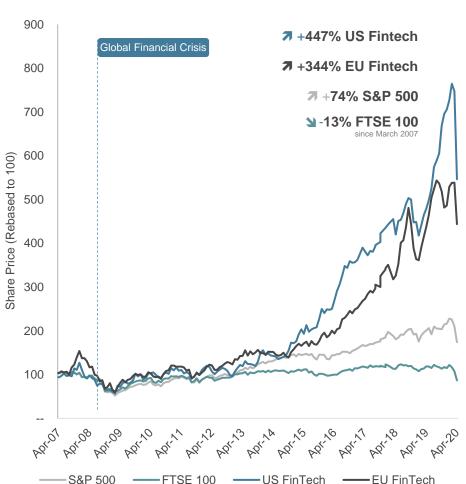
Business models converging:

Alternative Financial Services • BPO • Transaction Processing • Tech-Enabled Services • Data and Analytics Software/SaaS

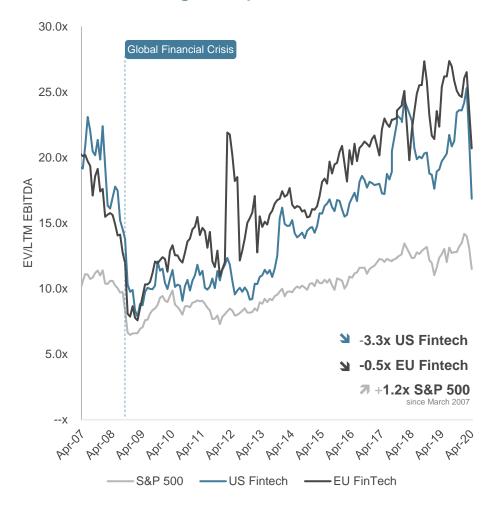
Crisis to Crisis: How Does It Look?

Although fintechs have outperformed the market, the recent correction all but reverses historical multiple expansion delivered post 2008.

Fintech outperforms the broader market

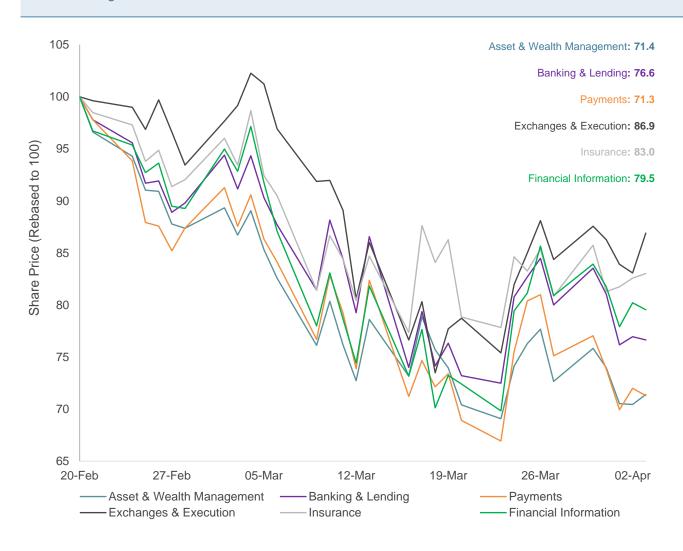


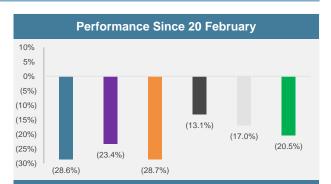
Earnings multiples back to "normal"?



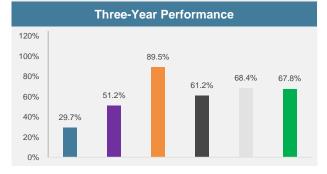
Not All Subsegments Equally Impacted by COVID-19

Fintech segments have retraced between c.13% and 29% in the immediate aftermath of COVID-19.

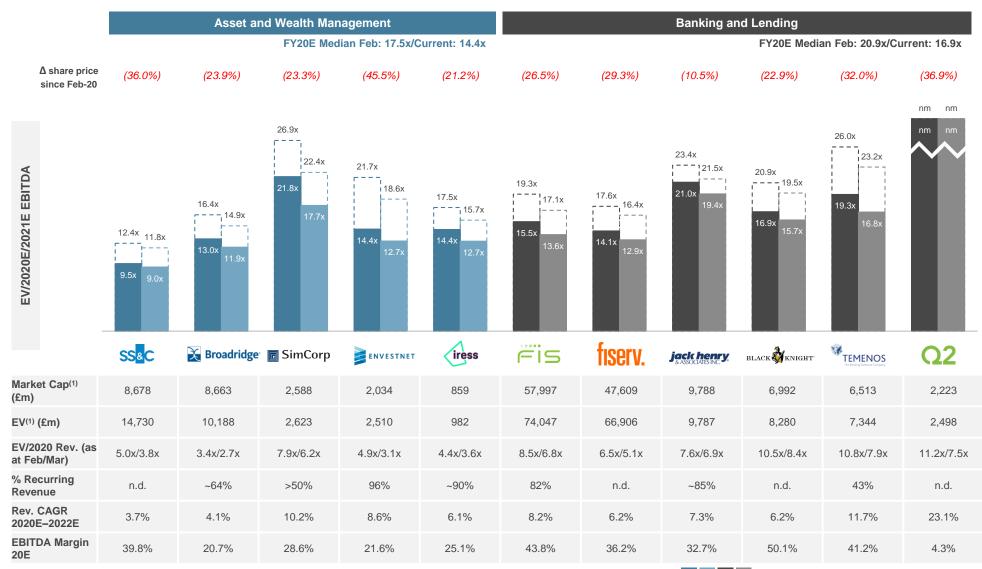








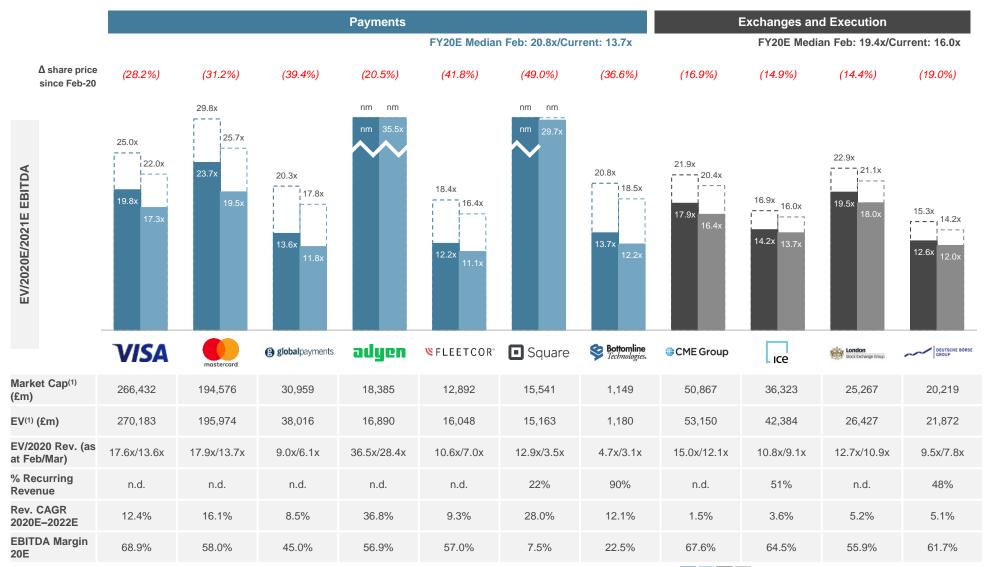
Banking and Lending Stocks Have Performed Comparatively Strongly Versus Other Fintech Segments, Supporting Long-Term Thesis



Notes: Financials are calendarised to 31 December year end. Trading multiples are based on share price and market data listed as at 20 February/3 April 2020 and broker consensus future earnings estimates from S&P Capital IQ and broker reports as at 20 February/3 April 2020. EV/EBITDA multiples considered to be not meaningful when greater than 40x.

EV/2020E/2021E EBITDA as at 3 April 2020 EV/2020E/2021E EBITDA as at 20 February 2020

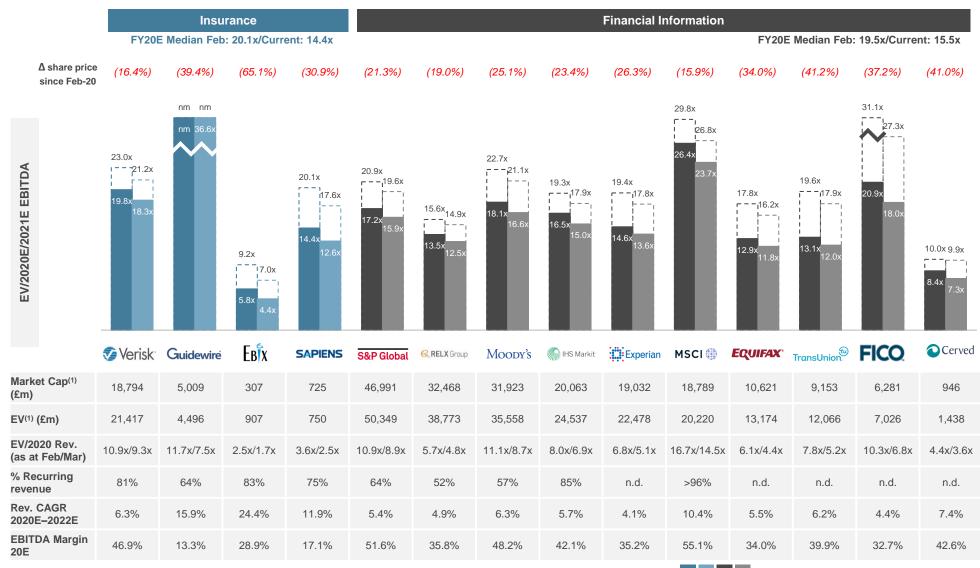
Exchanges and Execution Platforms Have Benefited From Increased Trading Volumes Across Asset Classes Following Significant Periods of Volatility



Notes: Financials are calendarised to 31 December year end. Trading multiples are based on share price and market data listed as at 20 February/3 April 2020 and broker consensus future earnings estimates from S&P Capital IQ and broker reports as at 20 February/3 April 2020. EV/EBITDA multiples considered to be not meaningful when greater than 40x.

EV/2020E/2021E EBITDA as at 3 April 2020 EV/2020E/2021E EBITDA as at 20 February 2020

B2B Information Providers With Subscription Models and Relatively Fixed Costs Base Demonstrate Robustness



Notes: Financials are calendarised to 31 December year end. Trading multiples are based on share price and market data listed as at 20 February/3 April 2020 and broker consensus future earnings estimates from S&P Capital IQ and broker reports as at 20 February/3 April 2020. EV/EBITDA multiples considered to be not meaningful when greater than 40x.

EV/2020E/2021E EBITDA as at 3 April 2020 EV/2020E/2021E EBITDA as at 20 February 2020

Capital Markets Experience Extreme Volatility

Heightened concerns surrounding COVID-19 continue to cause volatility across markets and weaken investor sentiment.

Equity Capital Markets

- Volatility, as measured by the VIX index, peaked on 16 March at an all-time high, exceeding the levels seen during the financial crisis. Volatility has since reduced from the peak with the VIX index currently around 44, but this is still 3x higher than the low levels seen in early 2020 before the COVID-19 pandemic.
- Markets have recovered strongly, with major indices up more than 15% since their lows on 23 March. However, volatility is likely to remain until there is more visibility on the progress of the virus, potential COVID-19 exit strategies, oil price stability, and the impact that each will have on the broader economy and corporate earnings.
- Companies across the globe have cancelled dividends and share buybacks and have dialled down capital expenditure programmes despite unprecedented fiscal and monetary policy response.
- A number of companies in directly affected sectors have tapped equity markets, successfully raising equity as they seek to ensure they can absorb operational disruptions for an extended period.
- IPOs across Europe scheduled to launch before Easter have been postponed, and it seems likely that IPOs planned to occur before the summer will also be postponed, even if market volatility continues to settle down as management teams assess any damage from the pandemic and its economic consequences, including on their guidance to the market.
- While there has been significant disruption, bear markets caused by external shocks have (historically) been the fastest to recover.

Debt Capital Markets

- International governments and central banks remain at the ready to support their respective economies with necessary monetary and fiscal policies to soften the impact of COVID-19.
- In the leveraged loans and high-yield markets, there have been no new primary issues (apart from some small add-ons) for a month, although early April has seen four BB issuers emerge in the US.
- Bank underwriting has withdrawn, except for deals committed precrisis while (in the direct credit market) there has been some investment, albeit again on deals nearly complete before the crisis.
- The direct market has liquidity; however, we are still in a stage of price discovery, since secondary public markets have highly attractive current yields and are typically with much larger companies.
- In March, credit rating agencies downgraded ratings at the fastest pace on record with the level of downgrades forecast to remain high over the coming weeks. There is a possibility that downgrades will force further selling pressure.
- The secondary market has seen a major sell-off across industries in both the leveraged loan and high-yield markets, in part influenced by the rating downgrades (the short-term dislocation presenting opportunities to some investors). However, investment grade issuance has been at all-time-high volume levels, and this has underpinned upward price movements in sub-IG of 5%—10%, with the BB index at c. 5% and the single B index at c. 10% in early April.

Note: As at 3 April 2020.

HOULIHAN LOKEY

China: A Look Into the Future?

China will be used as a natural high-water mark and will provide early insights as to how Western markets will recover from COVID-19.

China is back up and running...

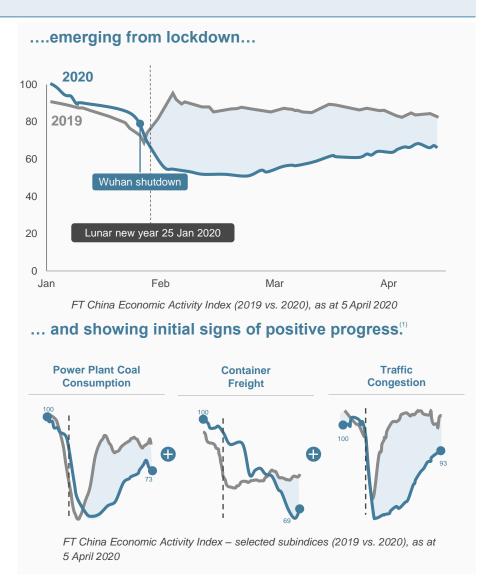
- Over the past several weeks, Chinese government efforts have been geared towards normalising production and reducing supply disruptions.
- While not at prior year levels, 25 provinces (which account for 89.2% of GDP) are reporting full resumption rates.
- Early indicators for electricity and coal power generation, port traffic, passenger activity, and car sales have shown signs of improvement as factories gradually resume production.

80.6% China's large industrial and manufacturing enterprises

65.3% Production levels one month prior

... outperforming Western markets...





Integrated, Global Team Built to Advise Modern Fintech Platforms

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Director



Juan Guzman
Director



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Rob Losquadro
Senior Vice President



Rich SaltzmanSenior Vice President



Faiz Vahidy
Senior Vice President



Jim Freeman Senior Advisor





Christian Kent Managing Director



Lawrence GuthrieManaging Director



Zam Khan Managing Director



Paul Tracey
Director



Yashin Mody Senior Vice President

Proven Fintech Track Record With Exceptional Momentum (1/2)



Pending *Financial Information*



PendingBanking and
Lending



Mar. 2020
Banking and
Lending



Nov. 2019
Asset and Wealth
Management



Sep. 2019
Exchanges and
Execution



Sep. 2019 Insurance



Sep. 2019 Insurance



Jun. 2019
Banking and
Lending



May 2019
Capital Markets
Software



Mar. 2019
Capital Markets
Software



Mar. 2019
Capital Markets
Software



Mar. 2019 Insurance



Feb. 2019 Capital Markets Software



Jan. 2019
Banking and
Lending



Jan. 2019Banking and
Lending





Dec. 2018
Financial
Information



Dec. 2018
Payments



Nov. 2018
Exchanges and
Execution



Nov. 2018
Banking and
Lending



Nov. 2018
Payments



Sep. 2018
Financial
Information



Sep. 2018
Banking and
Lending



Sep. 2018 Insurance

Proven Fintech Track Record With Exceptional Momentum (2/2)



Jul. 2018
Financial
Information



Jun. 2018
Financial
Information



Jun. 2018
Asset and Wealth
Management



May 2018
Financial
Information



Apr. 2018
Asset and Wealth
Management



Feb. 2018
Capital Markets
Software



Dec. 2017
Payments



Oct. 2017
Asset and Wealth
Management



Aug. 2017
Financial



Aug. 2017
Capital Markets
Software



Aug. 2017
Insurance



Aug. 2017
Asset and Wealth
Management



Jul. 2017
Exchanges and
Execution



Jul. 2017
Banking and
Lending



Jul. 2017 Insurance



Jun. 2017
Exchanges and
Execution



May 2017
Financial
Information



Apr. 2017
Capital Markets
Software



Mar. 2017
Capital Markets
Software



Mar. 2017
Capital Markets
Software



Feb. 2017 Insurance



Feb. 2017
Financial
Information



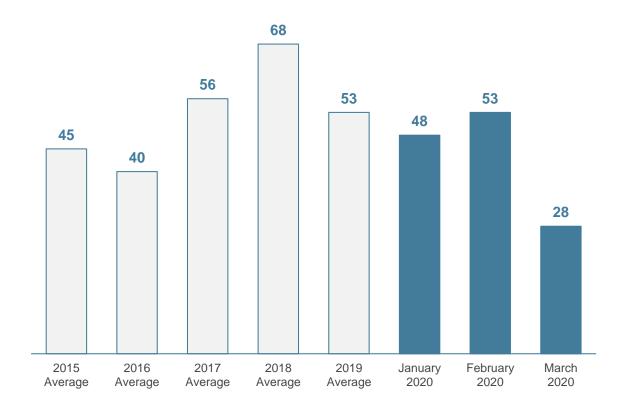
Jan. 2017
Financial
Information

Deal Activity Summary: M&A



- Heightened concerns surrounding COVID-19 continue to cause volatility across M&A markets with a distinct downswing in total deal activity in March.
 - 28 M&A deals in March represents a 45% decrease in deal activity against recent monthly averages and a 40% decrease year-over-year.
 - As strategic buyers have watched their share prices drastically drop, focus has shifted to internal initiatives and weathering the storm before continuing the push towards consolidation.
- Going forward, private equity buyers' record amount of dry powder (\$1.5 trillion) lends itself to the opportunity to deploy capital in the high-growth fintech sector at a steep discount to recent prices.

Monthly Deal Count⁽¹⁾



		А	nnualised	Deal Cour	nt		
542	485	668	821	634	576	636	336

Selected Deal Activity: M&A



Target Subsector	Target	Acquirer	Acquirer Type	Deal Value (£m)	Target Description and Size Metrics
	S \ \ \ \ \ \ \ \ \ E Private Client Business	JTC	Strategic M&A	£12	Administration, accounting, and fiduciary services for UHNWIs
	∢solovis	Nasdaq	Strategic M&A		Data aggregation, portfolio analysis, and reporting for LPs
Asset and Wealth	BLUE RIDGE ESOP ASSOCIATES	Lower Laterman Cortan Faderman	PE Platform		ESOP and 401(k) administration
Management	PlanPlus Global	M RNINGSTAR	Strategic M&A		Risk and reporting tools for financial advisors
	1 InCube	FINANTIX (Motive)	PE Bolt-On		Diversified Al-enabled financial advisor tools
		iress	Strategic M&A		Diversified pension and investment research platform for financial advisors
	() docutech.	First American	Strategic M&A	£269	Mortgage lender document security provider
	Douugh	Zîp <mark>Tel</mark> .	Strategic M&A		Digital challenger bank with personal finance tools
Banking	neyber	SALARY FINANCE (Insight)	PE Bolt-On		Lending platform for employers to offer loans to employees
and Lending	BRISMO	LoanClear	Strategic M&A		Lending performance, analytics, and data provider
	HORIZON HEALTH FUND	carepayment° (Crestline)	PE Bolt-On		Patient financing for hospitals and large health systems
	Collectia	silverfleet (2) capital	PE Platform		Loan administration and debt collection services

Source: Public announcement.

16





Target Subsector	Target	Acquirer	Deal Type	Deal Value (£m)	Target Description
	PAYMENTS	MDP ® Madison Dearborn Partners	PIPE	£101	Diversified payment processing services
Payments	MPX∕	fiserv.	Strategic M&A		Back-office processing and point-of-sale system providers
rayments	Loyale	RevSpring (GTCR)	PE Bolt-On		Patient and healthcare engagement and payment solutions
	APPLY	ACCUITY (RELX)	Strategic M&A		Automated payment validation solutions
Capital Markets	scivantage	REFINITIV	PE Bolt-On	£63	Online brokerage tools and tax lot accounting
Software	DELTIX	<epam></epam>	Strategic M&A		Algorithmic trading and research technology infrastructure
Diversified	Source HOV Tax	GAIN/LINE CAPITAL PARTNERS	PE Platform	£33	Specialised tax consulting services
Financial Software and BPO	Xactium	riskonnect. (Thoma Bravo)	PE Bolt-On		Diversified financial risk management software
and BPO	VMG HEALTH WE VALUE HEALTHCARE	NCP NORTHLANE CAPITAL PARTNERS	PE Platform		Healthcare-focused valuation firm
Insurance	PolicyPal	@ AMTD	Strategic M&A		Mobile insurance policy management
Financial	Collateral () Analytics of	BLACK KNIGHT	Strategic M&A		Mortgage risk tools and diversified real estate analytics offering
Information	aptricity	SS <mark>&</mark> C	Strategic M&A		Machine-learning focused data capture and digitalisation platform

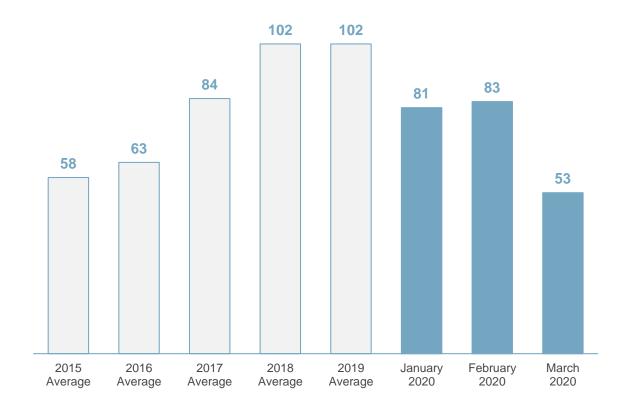
Source: Public announcement.

Deal Activity Summary: Growth/VC



- Private equity and VC firms have spent most of March focusing on stabilising their portfolio companies due to the strong headwinds caused by COVID-19.
 - However, financial sponsors should soon regain their focus on continued investment in the fintech sector.
- Much like M&A activity, March private capital activity is far below average monthly volumes and approximately 50% below 2018 and 2019's record-high averages.
- Corporate VCs remain increasingly active on a percentage of deal activity, but have seen a similar slowdown in deal count as strategics have watched their share price fall dramatically and shifted focus on internal operations.
- Despite current slowdown, secondary buyers expect a potential VC fire sale towards the second half of 2020 (and even into 2021) as attractive assets sell for steep discounts from recent peaks.

Monthly Deal Count⁽¹⁾



		А	nnualised	Deal Cour	nt		
694	753	1,002	1,219	1,227	972	996	636

Selected Deal Activity: Growth/VC



Target Subsector	Target	Acquirer	Deal Type	Deal Value (£m)	Target Description
	iCapital	中国平安 创新 PINGAN VENTURES	Consortium	£126	Alternatives distribution
Asset and Wealth	ADDEPAR	▼ VVestcap	Growth	£34	Reporting and rebalancing tools for Financial Analysts
Management	Human Interest	Oberndorf Enterprises	Series C	£31	Retirement-focused robo-advisor focused on small businesses
	moneyb2x	8° EIGHT ROADS (Fidelity)	Series C	£9	Investment-focused personal finance platform
	chime	DST	Series D	£152	Digital challenger bank
	○X ■ ::: Thought Machine	>€ Draper Esprit	Series B	£64	Cloud-based mobile banking technology
	investree	MUFG	Corporate	£43	Peer-to-peer lending marketplace
Banking	FinCompare	ING	Corporate	£10	Online loan comparison tool
And Lending	<u></u> ∧ NorthOne	Battery Ventures	Series A	£16	Small-business focused digital challenger bank
	Empower banking	ICON VENTURES DEFY	Series A	£16	Al-focused digital challenger bank
	assetz capital	BRITISH BUSINESS INVESTMENTS	Undisclosed	£15	Property-focused marketplace platform/lender
	boro	分期 乐 fenqile.com	Series A	£9	Student loan provider and financial education provider

Source: Public announcement. 19





Target Subsector	Target	Acquirer	Deal Type	Deal Value (£m)	Target Description
	SpotOn	DRAGONEER	Series B	£39	Point-of-sale payment solutions
Payments	🤘 airbase	BainCapital ventures	Series A	£18	Spend and budgeting software for companies
	Klarna.	ANT FINANČIAL	Corporate		Diversified online payment solutions
Capital Markets Software	Vox Smart	NatWest	Corporate	£5	Client communication surveillance software for financial institutions
	Bakkt	ice.	Corporate	£244	Digital asset trading platform and custody
Exchanges and Execution	Public	Accel Greycroft	Series B	£12	Fractional retail and social investing platform
	24	Standard Schartered	Corporate		FX derivatives trading platform
	INST∧ND∧"	Assembly	Series A	£15	Fully online-hosted, white-labeled insurance platform
Insurance	* Coterie	RPM	Series A	£7	Gig economy workforce commercial insurance platform
	AKUR8	BLACKFIN GAPTIAL PARTIERS	Series A	£7	Al-driven insurance pricing platform
Financial Information	Module Q	REFINITIV 🔫	Corporate		Financial institution focused AI prioritisation for Microsoft Teams

Source: Public announcement. 20

Listed Trading Analysis

	Company	Market Cap	EV	E	V/Revenue	;		EV/EBITDA	L.	EV/E	BITDA – C	арЕх	El	BITDA Mar	gin	2020E-202	22E CAGR
		GBPm	GBPm	2020	2021	2022	2020	2021	2022	2020	2021	2022	2020	2021	2022	Revenue	EBITDA
	Broadridge	8,663	10,188	2.7x	2.6x	2.5x	13.0x	11.9x	10.9x	14.1x	12.7x	11.7x	20.7%	21.6%	22.8%	4.1%	9.1%
∞ <u>+</u> €	Envestnet	2,034	2,510	3.1x	2.8x	2.6x	14.4x	12.7x	11.0x	16.6x	14.6x	12.2x	21.6%	22.4%	23.9%	8.6%	14.4%
Asset & Wealth	Iress	859	982	3.6x	3.4x	3.2x	14.4x	12.7x	11.8x	15.9x	13.9x	12.9x	25.1%	26.7%	27.2%	6.1%	10.4%
As W	Simcorp	2,588	2,623	6.2x	5.6x	5.1x	21.8x	17.7x	15.9x	23.3x	18.7x	16.8x	28.6%	31.6%	32.3%	10.2%	17.1%
	SS&C	8,678	14,730	3.8x	3.7x	3.5x	9.5x	9.0x	8.7x	10.3x	9.7x	9.3x	39.8%	40.6%	40.7%	3.7%	4.8%
Mean				3.9x	3.6x	3.4x	14.6x	12.8x	11.7x	16.0x	13.9x	12.6x	27.2%	28.6%	29.4%	6.5%	11.2%
Median				3.6x	3.4x	3.2x	14.4x	12.7x	11.0x	15.9x	13.9x	12.2x	25.1%	26.7%	27.2%	6.1%	10.4%
	Black Knight	6,992	8,280	8.4x	7.9x	7.5x	16.9x	15.7x	15.0x	20.4x	18.9x	17.9x	50.1%	50.3%	50.0%	6.2%	6.1%
- 4	FIS	57,997	74,047	6.8x	6.3x	5.8x	15.5x	13.6x	12.0x	18.7x	16.6x	14.4x	43.8%	46.2%	48.2%	8.2%	13.6%
s gu ing	Fiserv	47,609	66,906	5.1x	4.8x	4.5x	14.1x	12.9x	11.9x	17.3x	15.7x	14.6x	36.2%	37.5%	38.1%	6.2%	8.9%
nkir end	Jack Henry	9,788	9,787	6.9x	6.4x	6.0x	21.0x	19.4x	18.0x	25.8x	24.6x	23.7x	32.7%	33.2%	33.3%	7.3%	8.2%
Banking & Lending	Q2	2,223	2,498	7.5x	6.0x	4.9x	nm	nm	nm	nm	nm	nm	4.3%	7.6%	8.8%	23.1%	76.9%
	Temenos	6,513	7,344	7.9x	7.1x	6.4x	19.3x	16.8x	14.9x	23.4x	20.1x	17.7x	41.2%	42.1%	42.8%	11.7%	13.9%
Mean				7.1x	6.4x	5.8x	17.4x	15.7x	14.3x	21.1x	19.2x	17.7x	34.7%	36.1%	36.9%	10.4%	21.3%
Median				7.2x	6.4x	5.9x	16.9x	15.7x	14.9x	20.4x	18.9x	17.7x	38.7%	39.8%	40.5%	7.7%	11.3%
	A -l	40.005	40.000	00.4	00.0	45.0		25.5	05.0		20.0	07.4	FC 00/	E0 E0/	00.00/	20.00/	40.50/
	Adyen	18,385 1,149	16,890 1.180	28.4x 3.1x	20.8x 2.8x	15.2x 2.5x	nm 13.7x	35.5x 12.2x	25.3x	nm 19.2x	38.3x 16.3x	27.1x 13.5x	56.9% 22.5%	58.5% 22.9%	60.0% 24.0%	36.8% 12.1%	40.5% 15.8%
(2)	Bottomline Fleetcor	12,892	16,048	7.0x	6.4x	5.8x	13.7x 12.2x	12.2x 11.1x	10.3x 10.4x	19.2x 12.9x	11.7x	10.9x	57.0%	57.3%	56.2%	9.3%	8.5%
Jen	Global Payments	30,959	38,016	6.1x	5.6x	5.0x 5.2x	12.2x 13.6x	11.1x	10.4x 10.2x	16.0x	13.5x	10.9x 11.0x	45.0%	47.3%	51.4%	8.5%	15.8%
Payments	Mastercard	194,576	195.974	13.7x	11.8x	10.2x	23.7x	19.5x	16.6x	24.6x	20.2x	17.4x	58.0%	60.3%	61.6%	16.1%	19.6%
۵	Square	15,541	15,163	3.5x	2.8x	2.2x	nm	29.7x	19.9x	nm	35.6x	23.4x	7.5%	9.3%	10.8%	28.0%	54.1%
	Visa	266,432	270,183	13.6x	12.1x	10.8x	19.8x	17.3x	15.2x	20.9x	18.2x	16.0x	68.9%	70.1%	70.8%	12.4%	14.0%
Mean			· ·	10.8x	8.9x	7.4x	16.6x	19.6x	15.4x	18.7x	22.0x	17.0x	45.1%	46.5%	47.8%	17.6%	24.0%
Median				7.0x	6.4x	5.8x	13.7x	17.3x	15.2x	19.2x	18.2x	16.0x	56.9%	57.3%	56.2%	12.4%	15.8%
ges	CME Group	50,867	53,150	12.1x	12.2x	11.8x	17.9x	16.4x	15.0x	18.8x	17.1x	15.7x	67.6%	74.5%	78.6%	1.5%	9.4%
shange &		20,219	21,872	7.8x	7.4x	7.0x	12.6x	12.0x	11.2x	13.8x	13.1x	12.2x	61.7%	62.0%	62.8%	5.1%	6.0%
Exchanges &	ICE LSE	36,323	42,384	9.1x	8.9x	8.5x	14.2x	13.7x	12.7x	15.5x	15.0x	13.7x	64.5%	65.0%	67.2%	3.6%	5.7%
	LSE	25,267	26,427	10.9x	10.3x	9.8x	19.5x	18.0x	17.7x	21.7x	20.7x	21.2x	55.9%	57.5%	55.7%	5.2%	5.0%
Mean				10.0x	9.7x	9.3x	16.0x	15.0x	14.1x	17.5x	16.5x	15.7x	62.4%	64.8%	66.1%	3.8%	6.5%
Median				10.0x	9.6x	9.2x	16.0x	15.0x	13.8x	17.2x	16.1x	14.7x	63.1%	63.5%	65.0%	4.3%	5.8%

Listed Trading Analysis (cont.)

	Company	Market Cap	EV	E	EV/Revenue	;		EV/EBITDA		EV/E	BITDA – C	арЕх	El	BITDA Mar	gin	2020E-20	22E CAGR
		GBPm	GBPm	2020	2021	2022	2020	2021	2022	2020	2021	2022	2020	2021	2022	Revenue	EBITDA
Φ.	EBIX	307	907	1.7x	1.4x	1.1x	5.8x	4.4x	3.5x	6.0x	4.5x	3.6x	28.9%	30.6%	30.6%	24.4%	28.0%
Insurance	Guidewire	5,009	4,496	7.5x	6.5x	5.6x	nm	36.6x	27.9x	nm	nm	31.7x	13.3%	17.9%	19.9%	15.9%	42.2%
sur	Sapiens	725	750	2.5x	2.3x	2.0x	14.4x	12.6x	10.7x	17.3x	15.0x	12.7x	17.1%	18.0%	18.4%	11.9%	16.2%
	Verisk	18,794	21,417	9.3x	8.7x	8.2x	19.8x	18.3x	17.0x	24.6x	22.0x	20.4x	46.9%	47.6%	48.2%	6.3%	7.8%
Mean				5.2x	4.7x	4.2x	13.4x	18.0x	14.8x	16.0x	13.9x	17.1x	26.5%	28.5%	29.3%	14.6%	23.6%
Median	ı			5.0x	4.4x	3.8x	14.4x	15.5x	13.9x	17.3x	15.0x	16.6x	23.0%	24.3%	25.3%	13.9%	22.1%
	Cerved	946	1.438	3.6x	3.2x	3.1x	8.4x	7.3x	7.2x	10.0x	8.7x	8.6x	42.6%	43.6%	42.9%	7.4%	7.8%
	Equifax	10,621	13.174	4.4x	4.2x	3.9x	12.9x	11.8x	10.8x	17.7x	15.4x	13.4x	34.0%	35.1%	36.5%	5.5%	9.4%
Information	Experian	19,032	22,478	5.1x	4.9x	4.7x	14.6x	13.6x	13.2x	19.8x	18.3x	17.9x	35.2%	35.8%	36.0%	4.1%	5.2%
mat	FICO	6,281	7,026	6.8x	6.5x	6.3x	20.9x	18.0x	15.6x	22.3x	19.1x	16.4x	32.7%	36.0%	40.2%	4.4%	15.7%
for	IHS Markit	20,063	24,537	6.9x	6.5x	6.2x	16.5x	15.0x	14.0x	19.5x	17.6x	16.3x	42.1%	43.6%	44.4%	5.7%	8.6%
=	Moody's	31,923	35,558	8.7x	8.1x	7.7x	18.1x	16.6x	15.3x	18.8x	17.3x	15.9x	48.2%	49.1%	50.3%	6.3%	8.6%
ncial	MSCI	18,789	20,220	14.5x	13.3x	11.9x	26.4x	23.7x	20.8x	27.9x	25.0x	21.9x	55.1%	56.1%	57.5%	10.4%	12.7%
Finan	RELX	32,468	38,773	4.8x	4.6x	4.4x	13.5x	12.5x	11.8x	15.6x	14.4x	13.6x	35.8%	36.7%	37.2%	4.9%	6.9%
ш	S&P Global	46,991	50,349	8.9x	8.3x	8.0x	17.2x	15.9x	14.9x	17.7x	16.4x	15.3x	51.6%	52.3%	53.5%	5.4%	7.4%
	TransUnion	9,153	12,066	5.2x	4.9x	4.6x	13.1x	12.0x	10.8x	16.3x	14.8x	13.0x	39.9%	40.5%	43.1%	6.2%	10.4%
Mean				6.9x	6.4x	6.1x	16.1x	14.6x	13.4x	18.6x	16.7x	15.2x	41.7%	42.9%	44.2%	6.0%	9.3%
Median	1			6.0x	5.7x	5.5x	15.5x	14.3x	13.6x	18.3x	16.9x	15.6x	41.0%	42.1%	43.0%	5.6%	8.6%
Overal	I—Mean			7.4x	6.7x	6.1x	15.9x	15.9x	13.9x	18.2x	17.5x	15.8x	39.8%	41.3%	42.4%	9.8%	15.7%
Overal	I—Median			6.9x	6.3x	5.7x	14.5x	13.7x	13.2x	18.2x	16.5x	15.3x	40.5%	41.4%	42.9%	6.8%	9.9%

Listed Trading Analysis as at 20 February

	Company	Market Cap	EV	E	V/Revenue	;		EV/EBITDA	L.	EV/E	BITDA – C	арЕх	El	BITDA Mar	gin	2020E-202	22E CAGR
		GBPm	GBPm	2020	2021	2022	2020	2021	2022	2020	2021	2022	2020	2021	2022	Revenue	EBITDA
	Broadridge	10,823	12,273	3.4x	3.3x	3.1x	16.4x	14.9x	13.6x	18.0x	16.2x	14.7x	20.8%	21.9%	23.1%	4.5%	10.1%
& <u>-</u>	Envestnet	3,523	3,976	4.9x	4.4x	3.9x	21.7x	18.6x	16.3x	25.3x	20.5x	17.4x	22.8%	23.4%	24.3%	11.9%	15.6%
Asset & Wealth	Iress	1,134	1,263	4.4x	4.2x	4.0x	17.5x	15.7x	14.5x	19.2x	17.0x	15.7x	25.3%	26.7%	27.4%	5.6%	9.8%
Ass	Simcorp	3,208	3,241	7.9x	7.1x	6.5x	26.9x	22.4x	20.4x	28.6x	23.6x	21.5x	29.2%	31.6%	32.0%	9.7%	14.9%
		12,737	18,445	5.0x	4.8x	4.6x	12.4x	11.8x	11.3x	13.4x	12.6x	12.2x	40.0%	40.7%	40.7%	3.8%	4.7%
Mean				5.1x	4.7x	4.4x	19.0x	16.7x	15.2x	20.9x	18.0x	16.3x	27.6%	28.9%	29.5%	7.1%	11.0%
Median				4.9x	4.4x	4.0x	17.5x	15.7x	14.5x	19.2x	17.0x	15.7x	25.3%	26.7%	27.4%	5.6%	10.1%
	Black Knight	8,603	9,791	10.5x	9.8x	9.3x	20.9x	19.5x	18.5x	25.4x	23.5x	22.2x	50.0%	50.3%	50.0%	6.3%	6.3%
oX _	FIS	75,050	90,313	8.5x	7.9x	7.3x	19.3x	17.1x	15.3x	22.9x	20.8x	18.5x	44.1%	46.5%	48.0%	7.7%	12.4%
Banking & Lending	Fiserv	64,341	82,115	6.5x	6.2x	5.7x	17.6x	16.4x	16.2x	21.0x	19.5x	19.7x	37.1%	37.7%	34.9%	7.5%	4.4%
nkii	Jack Henry	10,396	10,395	7.6x	7.2x	6.7x	23.4x	21.5x	20.0x	27.7x	26.8x	26.3x	32.6%	33.4%	33.5%	6.9%	8.3%
Ba	Q2	3,333	3,596	11.2x	8.9x	7.3x	nm	nm	nm	nm	nm	nm	4.0%	7.7%	11.7%	23.7%	111.2%
	Temenos	8,944	9,738	10.8x	9.6x	8.6x	26.0x	23.2x	20.1x	32.0x	28.3x	24.3x	41.4%	41.5%	42.9%	11.9%	13.9%
Mean				9.2x	8.3x	7.5x	21.5x	19.5x	18.0x	25.8x	23.8x	22.2x	34.9%	36.2%	36.8%	10.7%	26.1%
Median				9.5x	8.4x	7.3x	20.9x	19.5x	18.5x	25.4x	23.5x	22.2x	39.2%	39.6%	38.9%	7.6%	10.3%
	Adyen	21,941	20,858	36.5x	26.5x	20.2x	nm	nm	34.1x	nm	nm	36.6x	58.6%	60.5%	59.4%	34.3%	35.2%
	Bottomline	1,724	1,754	4.7x	4.3x	3.8x	20.8x	18.5x	16.0x	28.7x	24.7x	21.1x	22.9%	23.1%	23.9%	11.5%	13.9%
nts	Fleetcor	21,038	23,963	10.6x	9.6x	8.7x	18.4x	16.4x	14.9x	19.3x	17.3x	15.7x	57.4%	58.5%	58.6%	9.9%	11.0%
Payments	Global Payments	48,612	54,911	9.0x	8.3x	7.6x	20.3x	17.8x	15.8x	23.9x	20.5x	17.2x	44.1%	46.7%	48.5%	8.4%	13.6%
ayı	Mastercard	268,901	270,230	17.9x	15.7x	13.9x	29.8x	25.7x	22.4x	30.9x	26.4x	23.6x	59.9%	61.1%	62.0%	13.3%	15.3%
ш	Square	28,601	28,519	12.9x	10.0x	7.9x	nm	nm	34.9x	nm	nm	nm	18.6%	20.7%	22.6%	28.0%	41.0%
	Visa	352,826	356,392	17.6x	15.7x	14.2x	25.0x	22.0x	19.6x	26.3x	23.1x	20.6x	70.2%	71.3%	72.2%	11.3%	12.9%
Mean				15.6x	12.9x	10.9x	22.9x	20.1x	22.5x	25.8x	22.4x	22.5x	47.4%	48.9%	49.6%	16.7%	20.4%
Median				12.9x	10.0x	8.7x	20.8x	18.5x	19.6x	26.3x	23.1x	20.9x	57.4%	58.5%	58.6%	11.5%	13.9%
- S		58,173	59,835	15.0x	14.4x	13.9x	21.9x	20.4x	19.8x	23.0x	21.4x	20.8x	68.3%	70.4%	70.4%	3.7%	5.3%
Exchanges &		23,723	25,179	9.5x	8.9x	8.3x	15.3x	14.2x	13.0x	17.0x	15.7x	14.4x	62.1%	62.9%	64.2%	6.9%	8.7%
char &	ICE	40,927	46,691	10.8x	10.3x	9.9x	16.9x	16.0x	14.8x	18.5x	17.4x	16.2x	64.2%	64.7%	66.8%	4.7%	6.8%
Exc	LSE	29,386	30,732	12.7x	12.0x	11.5x	22.9x	21.1x	19.8x	26.9x	24.4x	22.9x	55.7%	56.9%	58.0%	5.4%	7.6%
Mean				12.0x	11.4x	10.9x	19.3x	17.9x	16.8x	21.4x	19.7x	18.6x	62.6%	63.7%	64.8%	5.2%	7.1%
Median				11.8x	11.2x	10.7x	19.4x	18.2x	17.3x	20.8x	19.4x	18.5x	63.1%	63.8%	65.5%	5.1%	7.2%

Listed Trading Analysis as at 20 February (cont.)

	Company	Market Cap	EV	E	V/Revenue		I	EV/EBITDA		EV/E	BITDA - C	арЕх	EI	BITDA Mar	gin	2020E-202	2E CAGR
		GBPm	GBPm	2020	2021	2022	2020	2021	2022	2020	2021	2022	2020	2021	2022	Revenue	EBITDA
Ф	EBIX	836	1,373	2.5x	1.9x	1.4x	9.2x	7.0x	5.4x	10.0x	7.6x	5.8x	26.9%	26.9%	26.9%	31.0%	31.0%
Insurance	Guidewire	7,830	7,372	11.7x	10.1x	8.6x	nm	nm	nm	nm	nm	nm	16.7%	18.9%	18.9%	16.5%	23.9%
sur	Sapiens	997	1,037	3.6x	3.3x	3.0x	20.1x	17.6x	15.8x	24.0x	20.8x	15.8x	18.1%	18.7%	18.7%	11.0%	12.7%
ڠ	Verisk	21,455	23,949	10.9x	10.2x	9.5x	23.0x	21.2x	19.5x	28.4x	25.5x	23.2x	47.4%	48.0%	48.7%	7.1%	8.5%
Mean				7.2x	6.4x	5.6x	17.4x	15.3x	13.6x	20.8x	18.0x	15.0x	27.3%	28.1%	28.3%	16.4%	19.1%
Median				7.3x	6.7x	5.8x	20.1x	17.6x	15.8x	24.0x	20.8x	15.8x	22.5%	22.9%	22.9%	13.7%	18.3%
	Cerved	1,525	2.008	4.4x	4.3x	4.3x	10.0x	9.9x	9.7x	12.0x	11.9x	11.6x	44.3%	44.0%	44.0%	2.1%	1.7%
	Equifax	15,201	17.629	6.1x	5.7x	5.4x	17.8x	16.2x	14.9x	24.6x	21.2x	18.7x	34.2%	35.4%	36.3%	6.4%	9.5%
Information	Experian	25,829	29,105	6.8x	6.4x	5.9x	19.4x	17.8x	16.6x	26.2x	23.9x	22.3x	35.2%	35.7%	35.9%	7.1%	8.1%
mal	FICO	9,511	10.220	10.3x	9.6x	8.8x	31.1x	27.3x	23.8x	33.1x	28.9x	25.0x	33.1%	35.0%	37.0%	8.1%	14.3%
for	IHS Markit	24,551	28,457	8.0x	7.5x	7.1x	19.3x	17.9x	16.6x	22.8x	21.1x	19.3x	41.2%	42.2%	43.0%	5.7%	8.0%
	Moody's	40,883	44,165	11.1x	10.4x	9.8x	22.7x	21.1x	19.7x	23.6x	21.9x	20.3x	48.9%	49.4%	49.7%	6.5%	7.4%
Financial	MSCI	21,191	22,552	16.7x	15.2x	13.6x	29.8x	26.8x	23.3x	31.4x	28.1x	24.5x	56.1%	57.0%	58.4%	10.6%	12.9%
inal	RELX	40,117	46,422	5.7x	5.5x	5.3x	15.6x	14.9x	14.2x	18.0x	17.1x	16.3x	36.4%	37.0%	37.0%	4.0%	4.9%
ш	S&P Global	57,454	60,647	10.9x	10.3x	9.7x	20.9x	19.6x	18.3x	21.5x	20.1x	18.7x	52.1%	52.5%	52.9%	6.2%	7.0%
	TransUnion	14,715	17,486	7.8x	7.3x	6.7x	19.6x	17.9x	16.1x	24.4x	22.1x	20.0x	40.1%	40.7%	41.3%	8.5%	10.1%
Mean				8.8x	8.2x	7.7x	20.6x	18.9x	17.3x	23.8x	21.6x	19.7x	42.2%	42.9%	43.6%	6.5%	8.4%
Median				7.9x	7.4x	6.9x	19.5x	17.9x	16.6x	24.0x	21.5x	19.7x	40.6%	41.4%	42.2%	6.4%	8.1%
	I—Mean			9.8x	8.8x	7.9x	20.4x	18.4x	17.8x	23.4x	20.9x	19.5x	40.6%	41.7%	42.3%	10.2%	15.1%
Overal	I—Median			9.2x	8.6x	7.5x	20.2x	17.9x	16.4x	24.0x	21.1x	19.7x	40.6%	41.1%	42.1%	7.6%	10.1%

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