



SAAS INDUSTRY UPDATE | Q4 2019

NOTABLE & QUOTABLE

"At this point, cloud adoption is mainstream. The expectations of the outcomes associated with cloud investments therefore are also higher. Adoption of next-generation solutions are almost always 'cloud-enhanced' solutions, meaning they build on the strengths of a cloud platform to deliver digital business capabilities." – **Sid Nga, Gartner Vice President of Research**

"Volume of data is important, but it is more important to be able to add new analytics use cases quickly and then be able to support and manage hundreds or even thousands of those use cases as your business evolves." – **Todd Goldman, Infoworks Vice President of Marketing**

"As organizations use AI and data to stay relevant to their buyers in real-time, they need automation to ensure they are being fully adaptive to meet those needs." – **Steve Gershik, InRiver CMO**

"The data and technology that helps brand marketers resolve an individual's identity and create a more relevant experience for the customer will have the greatest impact on the industry." – Aimee Irwin, Experian Vice President of Strategy

Product-led growth is a strategy that uses product value to pursue growth and expansion in a market. The driving principle behind product-led growth: have a product users can't live without. The traditional approach to SaaS growth involves building a product, then hiring a sales team to sell the product, but in <u>this piece</u> Patrick Campbell describes the operative principles behind product-led growth and why a bottoms-up approach is effective.

When designing for the web, product managers can analyze usage data and compare different interfaces in A/B tests. This is sometimes called "data-driven design", but it can also be thought of as data-informed design — the designer is still driving, not the data. In <u>this</u> <u>write-up</u>, Kerry Rodden at GV Library walks us through the HEART framework and the goals-signals metrics process to optimize your product's UX and maximize user satisfaction.

DUNDERS

2020 market expectations remain steady, bolstered by intense industry competition, consolidation across technology verticals, and an abundance of deployable capital. In <u>this</u> <u>collaboration</u> between several senior professionals at OpenView Venture Partners, the firm's leadership details eight challenging, thought-provoking predictions about technology trends to guide strategy in 2020.

Technology Team Contacts

Zane Tarence | Managing Director ztarence@foundersib.com

Chris Weingartner | *Director* cweingartner@foundersib.com

Brad Johnson | Vice President bjohnson@foundersib.com

Billy Pritchard | Vice President bpritchard@foundersib.com

> William Short | Associate wshort@foundersib.com

Matt Stanford | Analyst mstanford@foundersib.com

Rebecca Askew | Practice Group Manager raskew@foundersib.com

Upcoming Events

Founders @ SaaStr March 10th – 12th San Jose McEnery Convention Center Booth 1339

Meet Us There

Table of Contents

Varket Quotes & Insights	1
2019 Silicon Y'all Recap	2
Recent Transactions	3
/aluation & Growth Metrics	4-6
Operating Statistics	7-8
Balance Sheet Metrics	9-10
SaaS Index Key	11-13

ł

9

BANK DEBT AND MIDDLE MARKET TECHNOLOGY FIRMS



John Hoesley & Josh Roberts – Innovation Banking, Sterling National Bank

Early- and mid-stage technology firms face trade-offs in raising equity. The need for growth capital vs. dilution. Money today vs. potentially higher valuations later. Self-governance vs. ceding some strategic and operational control. In the technology sector, change is the only constant – management teams and capital structures must be adaptable while balancing the cost of capital with adequate liquidity to fund investments in research and development, sales and marketing and the firm's infrastructure.

Many founders' focus on equity alternatives stems from the misunderstanding that bank debt is only available for investor-backed firms, or that founder-owned companies can only access high-cost, non-bank options. Unlike holiday M&Ms[®], less- or non-dilutive bank debt alternatives do exist for mid-market technology firms...but there are considerations founders should undertake before pursuing it.

• **The choice of a banking partner is critical.** Founders often work with larger, less-focused financial institutions – they've 'always banked there' but now find their bank doesn't understand their business. Among tech-focused banking practices, overly aggressive lending to quickly build market share can foster a pullback if even a small set of borrowers experience difficulty. Or knee-jerk reactions to inevitable speed bumps in a firm's path leave founders wondering whether they'll have access to debt capital, usually, it seems, when opportunities are most abundant.

All bank lenders are regulated; there are limits to what they can, and should, provide. But banks underwriting primarily to business risk (whether investors are involved or not) develop a better understanding of firms' unique opportunities and challenges. Armed with that knowledge, these banks are better able to respond to changes impacting the firm. More important, knowledge of the business and its economics and broader market trends should result in a banking partner able to identify opportunities and anticipate challenges.

Finally, firms should challenge banks' experiences in their sectors and with their business models. Comfort should extend in both directions.

- Various types of bank debt for firms at different stages. Within the bank debt market, lenders should match solutions with borrowers' stages and cash flow burn/generation profile (again, within their regulatory and internal frameworks). Potential solutions include:
 - Venture debt. For early-stage firms, venture debt typically follows and extends the lives of equity rounds by adding debt equal to 25-50% of the raise. Warrants come and go in this segment but the debt typically includes a 12-24 month interest-only period that allows firms to continue investing by deferring principal amortization.
 - Asset-based lending. Mid-stage firms with service-intensive models may explore asset-based financing to support working capital requirements. With advance rates typically up to 90% of eligible A/R and 50% of eligible inventory, firms can leverage the existing asset base to provide required working capital.
 - Recurring revenue-based solutions. For mid-stage technology firms with subscription or highly-repeatable revenue, recurring revenue-based revolvers, based on multiples of monthly recurring revenue ranging from three to twenty-four times, depending on the firm's size, provide growth working capital to support investment in the business. As growth continues, the structure yields additional availability based on higher levels of recurring revenue.
 - Traditional leveraged lending. Finally, late-stage firms with positive EBITDA may explore traditional leveraged solutions for organic investment, acquisitions and management or leveraged buyouts.

Importantly, there are rarely 'one size fits all' solutions. Firms should look for banking partners offering credit solutions across businesses' stages of development, who can grow with the company. Bank debt typically includes financial and other covenants; while commonly set with reasonable cushions to forecasted performance, firms must be comfortable with the constraints covenants impose.

• **Timing considerations.** The timing of bank debt availability is often misunderstood. Founders often assume bank debt is not available to firms burning cash, or absent significant asset bases or investor support. However, by understanding the firm's business model – and that growth investments often consume excess cash but drive enterprise value – experienced specialty lenders may underwrite to firms with cash burn profiles.

Whether firms have historically borrowed, management must be comfortable the business can support proposed debt – so the business continues to drive the balance sheet, not the other way around.

Debt often can be a non-dilutive, low-cost way to drive additional growth but it can negatively impact operating flexibility if there are covenant compliance issues. As a result, having a banker that truly understands the business, with a history of working with founders and investors to devise solutions that work for all parties, is critically important.

John Hoesley (312.909.7904; <u>ihoesley@snb.com</u>) and Josh Roberts (630.777.5777; <u>iroberts@snb.com</u>) co-founded the Innovation Banking Group for Sterling National Bank, where they provide senior debt and banking solutions to founder-owned and investor-backed mid-market technology firms across the U.S. Previously, they co-founded the U.S. Innovation Banking group for CIBC Bank USA after prior positions in corporate finance, corporate and investment banking, venture capital and mezzanine debt focused on the technology, media and telecom and life sciences sectors.

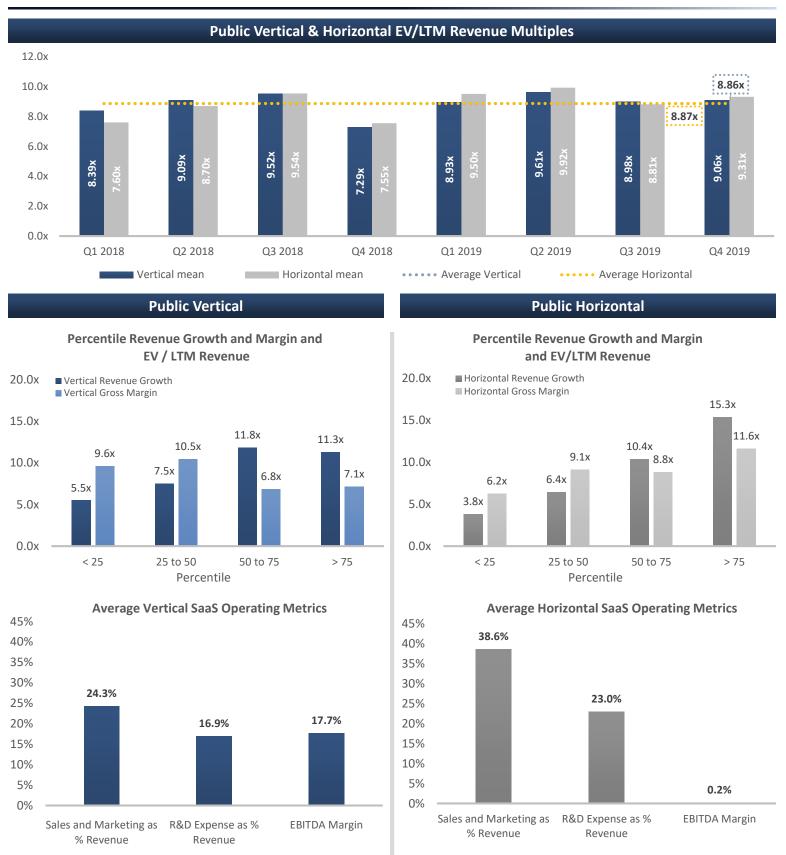


RECENT TRANSACTIONS

Announced Date	Target	Buyer	Purchase Price	LTM Revenue	LTM EBITDA	Enterprise Value / LTM Revenue	Enterprise Value / LTM EBITDA
12/19/2019	🔖 telaria	rubiçon	\$376	\$68	(\$10)	5.5x	N/A
12/19/2019	SH=`Pe		\$1,028	\$60	N/A	17.1x	N/A
12/17/2019	LogMe	FRANCISCO PARTNERS	\$4,558	\$1,248	\$353	3.7x	12.9x
12/4/2019	VERINT	Apax Partners	N/A	\$1,295	\$206	N/A	N/A
12/4/2019	INSTRUCTURE	THOMABRAVO	\$1,952	\$258	(\$55)	7.6x	N/A
11/25/2019		paloalto	\$150	-	N/A	N/A	N/A
11/11/2019	CARBONITE	OPENTEXT [®]	\$1,396	\$405	\$53	3.4x	26.3x
11/6/2019	f Buildium®	• REALPAGE	\$580	\$50	(\$1)	11.6x	N/A
11/4/2019	scộut"	workday.	\$540	-	N/A	N/A	N/A
11/3/2019	observe <mark>i</mark> t	proofpoint.	\$225	-	N/A	N/A	N/A
10/23/2019	Onshape	📚 ptc [.]	\$470	-	N/A	N/A	N/A
10/22/2019	session	mastercard.	\$215	-	N/A	N/A	N/A
10/21/2019	dataxu.	Roku	\$149	\$143	(\$17)	1.0x	N/A
10/14/2019	SOPHOS	THOMABRAVO	\$3,121	\$727	\$91	4.3x	34.4x

<u>FOUNDERS</u><u>ADVISORS</u> <u>\$ in Millions</u>

METRICS OVERVIEW





VALUATION & GROWTH METRICS

FA SaaS Index - Valuation & Growth - As of Q4 2019

(In millions)

			LTM	YoY		LTM	Enterprise	
Ticker	Company Name		Revenue	Growth		EBITDA	LTM Revenue	LTM EBITDA
	aS Companies							
TWOU	2U, Inc.	\$	574.7	39.6%	\$	(106.5)	3.2x	N
APPF	AppFolio, Inc.	\$	239.0	25.8%	\$	17.8	15.8x	176.0
BKI	Black Knight, Inc.	\$	1,177.2	5.7%	\$	531.2	9.6x	31.8
BLKB	Blackbaud, Inc.	\$	900.4	6.1%	\$	118.6	5.0x	33.1
EBIX	Ebix, Inc.	\$	570.8	14.7%	\$	158.8	3.0x	9.2
DS	FactSet Research Systems Inc.	\$	1,450.4	5.7%	\$	511.3	7.3x	20.8
NOV	Inovalon Holdings, Inc.	\$	605.2	14.7%	\$	164.9	6.4x	22.0
INST	Instructure, Inc.	\$	258.5	23.4%	\$	(65.8)	7.2x	N
MDSO	Medidata Solutions, Inc.	\$	684.6	7.7%	\$	78.1	-	
VICO	Moody's Corporation	\$	4,829.0	8.7%	\$	2,270.9	10.7x	21.8
QTWO	Q2 Holdings, Inc.	\$	295.8	22.7%	\$	(30.5)	12.6x	N
RP	RealPage, Inc.	\$	960.3	10.5%	\$	163.0	5.7x	31.4
SPSC	SPS Commerce, Inc.	\$	279.1	12.4%	\$	54.8	6.4x	31.5
TEMN	Temenos AG	\$	972.0	15.6%	\$	366.0	13.1x	42.0
TYL	Tyler Technologies, Inc.	\$	1,086.4	16.2%	\$	202.4	11.1x	56.8
VEEV	Veeva Systems Inc.	\$	1,024.9	25.6%	\$	309.1	19.0x	61.9
	Min	\$	239.0	5.7%	\$	(106.5)	-	9.2
	Median	\$	792.5	14.7%	\$	160.9	7.3x	31.7
	Mean	\$	994.3	15.9%	\$	296.5	8.5x	44.9
	Max	\$	4,829.0	39.6%	\$	2,270.9	19.0x	176.0
Horizontal	SaaS Companies							
EGHT	8x8, Inc.	\$	418.5	23.8%	\$	(123.8)	5.0x	N
ADBE	Adobe Inc.	\$	11,171.3	23.7%	\$	3,833.9	14.2x	41.2
ALRM	Alarm.com Holdings, Inc.	\$	473.3	12.6%	\$	75.8	4.3x	24.9
AMBR	Amber Road, Inc.	\$	86.2	1.2%	\$	(6.6)	-	
ΓEAM	Atlassian Corporation Plc	\$	1,416.0	36.5%	\$	10.7	22.0x	NI
BNFT	Benefitfocus, Inc.	\$	283.3	9.5%	\$	(19.6)	3.1x	NI
3L	BlackLine, Inc.	\$	289.0	26.9%	\$	(7.0)	9.9x	N
зох	Box, Inc.	\$	676.4	16.3%	\$	(78.8)	4.0x	NI
BCOV	Brightcove Inc.	\$	177.7	7.8%	\$	(2.3)	1.9x	95.7
CARB	Carbonite, Inc.	\$	6.1	7.5%	\$	2.7	2.1x	4.7
CSLT	Castlight Health, Inc.	\$	149.0	(4.8%)	\$	(30.0)	1.1x	NI
сом	ChannelAdvisor Corporation	\$	130.0	(1.0%)	\$	10.6	1.7x	20.8
CTXS	Citrix Systems, Inc.	\$	3,010.6	1.2%	\$	697.7	5.0x	18.8
CSOD	Cornerstone OnDemand, Inc.	\$	565.2	5.1%	\$	17.1	6.3x	137.0
COUP	Coupa Software Incorporated	\$	353.2	47.6%	\$	(47.9)	26.2x	NI
	DocuSign, Inc.	\$	898.8	38.3%	\$	(167.7)	14.8x	N
EGAN	eGain Corporation	\$	69.2	6.8%	\$	6.3	3.1x	32.8
EVBG	Everbridge, Inc.	\$	185.6	26.2%	\$	(36.7)	13.8x	SZ.C
IVN	Five9, Inc.	ې \$	308.1	19.6%	ې \$	(36.7) 19.6	13.8X 12.7x	167.3
HUBS	-	ې \$	674.9				12.7X 10.1x	
	HubSpot, Inc.	ې \$		31.6%	\$ ¢	(29.3)		N 22.1
NTU	Intuit Inc.		6,933.0	13.1%	\$	2,078.0	9.6x	32.1
KXS	Kinaxis Inc. LivePerson, Inc.	\$ \$	173.5 291.6	15.1% 16.7%	\$ \$	29.8 (66.3)	10.3x 8.4x	51.7 NI
LPSN								



Source: CapitalIQ

VALUATION & GROWTH METRICS, CONT'D

			LTM	ΥοΥ	LTM		Enterprise Value /	
Ticker	Company Name	I	Revenue	Growth		EBITDA	LTM Revenue	LTM EBITDA
Horizontal	SaaS Companies							
LOGM	LogMeIn, Inc.	\$	1,260.4	4.7%	\$	318.9	3.5x	12.4x
MIME	Mimecast Limited	\$	404.9	25.9%	\$	29.7	7.1x	55.1x
MOBL	MobileIron, Inc.	\$	205.2	6.2%	\$	(41.1)	2.3x	NM
MODN	Model N, Inc.	\$	144.5	(4.0%)	\$	(8.0)	8.1x	NM
NEWR	New Relic, Inc.	\$	572.0	28.4%	\$	(38.0)	6.6x	NM
PAYC	Paycom Software, Inc.	\$	737.7	30.3%	\$	249.4	21.9x	62.5x
PCTY	Paylocity Holding Corporation	\$	519.0	24.2%	\$	76.1	13.0x	85.0x
PEGA	Pegasystems Inc.	\$	911.4	2.2%	\$	(113.5)	7.0x	NM
PFPT	Proofpoint, Inc.	\$	888.2	23.9%	\$	(24.6)	7.4x	NM
QLYS	Qualys, Inc.	\$	321.6	15.3%	\$	105.9	9.6x	29.2x
RNG	RingCentral, Inc.	\$	902.9	34.0%	\$	8.5	17.1x	NM
CRM	salesforce.com, inc.	\$	15,850.0	26.4%	\$	2,333.0	9.1x	48.3x
SCWX	SecureWorks Corp.	\$	541.5	6.4%	\$	(7.7)	2.3x	NM
NOW	ServiceNow, Inc.	\$	3,460.4	32.6%	\$	294.9	16.4x	185.6x
SHOP	Shopify Inc.	\$	1,578.2	47.0%	\$	(113.0)	30.7x	NM
SMAR	Smartsheet Inc.	\$	244.5	54.2%	\$	(74.3)	19.5x	NM
ULTI	The Ultimate Software Group, Inc.	\$	1,198.8	5.1%	\$	117.0	-	-
UPLD	Upland Software, Inc.	\$	201.8	34.6%	\$	48.3	5.6x	22.6x
VRNS	Varonis Systems, Inc.	\$	254.2	(6.0%)	\$	(69.7)	8.6x	NM
WIX	Wix.com Ltd.	\$	720.7	19.4%	\$	(50.6)	8.2x	NM
WDAY	Workday, Inc.	\$	3,439.5	31.5%	\$	(190.6)	10.8x	NM
WK	Workiva Inc.	\$	282.1	15.4%	\$	(25.7)	6.3x	NM
YEXT	Yext, Inc.	\$	281.2	32.3%	\$	(97.4)	5.4x	NM
ZEN	Zendesk, Inc.	\$	816.4	36.4%	\$	(121.4)	11.5x	NM
ZIXI	Zix Corporation	\$	141.5	100.8%	\$	22.5	4.6x	24.4x
ZUO	Zuora, Inc.	\$	269.2	21.6%	\$	(77.1)	5.4x	NM
	Min	\$	6.1	(6.0%)	\$	(190.6)	-	4.7x
	Median	\$	418.5	19.6%	\$	(7.0)	7.4x	37.0x
	Mean	\$	1,324.2	21.0%	\$	177.9	8.9x	57.6x
	Max	\$	15,850.0	100.8%	\$	3,833.9	30.7x	185.6x



OPERATING STATISTICS

FA SaaS Index - Operating Statistics - As of Q4 2019

		COGS	Gross	SG&A	R&D Expense	Sales & Marketing	EBITDA
Ticker	Company Name	As a % of Revenue	Margin	As a % of Revenue	As a % of Revenue	As a % of Revenue	Margin
		<u>no u vo oj nevenue</u>		<u>/////////////////////////////////////</u>	<u>, 15 u 70 oj nevenue</u>	<u>, , , , , , , , , , , , , , , , , , , </u>	margin
TWOU	SaaS Companies	28.2%	71.8%	82.4%	20.1%	59.6%	(19 50/)
APPF	2U, Inc. AppFolio, Inc.	39.4%	60.6%	33.2%	20.1%	19.5%	(18.5%) 7.4%
BKI	Black Knight, Inc.	54.9% 46.5%	45.1%	N/A 37.5%	N/A 11.8%	N/A	45.1% 13.2%
BLKB	Blackbaud, Inc.	46.5% 34.1%	53.5% 65.9%	30.3%	8.3%	24.9% 3.3%	27.8%
EBIX FDS	Ebix, Inc. FactSet Research Systems Inc.	45.6%	54.4%	23.3%	8.3% 14.8%	3.3% N/A	35.3%
	-		54.4% 74.0%	41.5%	5.3%		35.3% 27.2%
INOV	Inovalon Holdings, Inc.	26.0%				9.6%	
INST MDSO	Instructure, Inc.	32.0%	68.0%	69.4%	32.3% 26.2%	47.0%	(25.5%)
	Medidata Solutions, Inc.	26.4%	73.6%	41.9%		24.2%	11.4%
MCO	Moody's Corporation	28.7%	71.3%	24.2%	N/A	N/A	47.0%
QTWO	Q2 Holdings, Inc.	51.8%	48.2%	38.9%	27.0%	20.6%	(10.3%)
RP	RealPage, Inc.	38.8%	61.2%	31.5%	17.6%	19.6%	17.0%
SPSC	SPS Commerce, Inc.	33.0%	67.0%	41.1%	10.1%	25.1%	19.6%
TEMN	Temenos AG	44.1%	55.9%	31.7%	N/A	21.4%	37.7%
TYL	Tyler Technologies, Inc.	52.4%	47.6%	23.7%	7.5%	N/A	18.6%
VEEV	Veeva Systems Inc.	26.7%	73.3%	26.4%	18.7%	16.5%	30.2%
	Min	26.0%	45.1%	23.3%	5.3%	3.3%	(25.5%)
	Median	36.4%	63.6%	33.2%	17.6%	21.0%	19.1%
	Mean	38.0%	62.0%	38.5%	16.9%	24.3%	17.7%
	Max	54.9%	74.0%	82.4%	32.3%	59.6%	47.0%
Horizont	al SaaS Companies						
EGHT	8x8, Inc.	42.6%	57.4%	72.9%	18.1%	53.5%	(29.6%)
ADBE	Adobe Inc.	15.0%	85.0%	36.9%	17.3%	29.0%	34.3%
ALRM	Alarm.com Holdings, Inc.	35.9%	64.1%	24.1%	24.0%	12.6%	16.0%
AMBR	Amber Road, Inc.	43.6%	56.4%	50.9%	18.8%	26.2%	(7.6%)
TEAM	Atlassian Corporation Plc	17.2%	82.8%	37.0%	49.8%	20.1%	0.8%
BNFT	Benefitfocus, Inc.	48.2%	51.8%	44.9%	21.0%	28.1%	(6.9%)
BL	BlackLine, Inc.	20.4%	79.6%	74.5%	16.5%	55.0%	(2.4%)
BOX	Box, Inc.	30.5%	69.5%	61.4%	27.8%	46.7%	(11.7%)
BCOV	Brightcove Inc.	41.0%	59.0%	45.6%	19.1%	32.9%	(1.3%)
CARB	Carbonite, Inc.	36.5%	63.5%	28.0%	N/A	N/A	44.0%
CSLT	Castlight Health, Inc.	38.6%	61.4%	44.6%	40.2%	26.5%	(20.1%)
ECOM	ChannelAdvisor Corporation	22.1%	77.9%	59.3%	15.4%	40.4%	8.2%
CTXS	Citrix Systems, Inc.	13.7%	86.3%	48.3%	18.3%	37.6%	23.2%
CSOD	Cornerstone OnDemand, Inc.	25.8%	74.2%	55.2%	22.7%	39.5%	3.0%
COUP	Coupa Software Incorporated	35.1%	64.9%	59.4%	25.4%	40.0%	(13.6%)
DOCU	DocuSign, Inc.	24.9%	75.1%	78.8%	19.9%	62.1%	(18.7%)
EGAN	eGain Corporation	31.3%	68.7%	38.4%	22.1%	26.7%	9.1%
EVBG	Everbridge, Inc.	31.5%	68.5%	67.1%	30.1%	44.3%	(19.8%)
FIVN	Five9, Inc.	40.5%	59.5%	43.8%	13.5%	28.8%	6.4%
HUBS	HubSpot, Inc.	19.3%	80.7%	64.2%	25.2%	50.5%	(4.3%)
INTU	Intuit Inc.	17.1%	82.9%	37.1%	18.7%	28.3%	30.0%
KXS	Kinaxis Inc.	29.6%	70.4%	38.1%	18.3%	23.5%	17.2%
LPSN	LivePerson, Inc.	27.0%	73.0%	73.3%	28.2%	53.8%	(22.7%)
LOGM	LogMeIn, Inc.	25.6%	74.4%	46.8%	15.4%	35.1%	25.3%
MIME	Mimecast Limited	25.9%	74.1%	55.9%	18.6%	40.3%	7.3%
		20.070		00.070	10.070		
	LIQUIDITY I GROWTH					Source	: CapitalIQ



OPERATING STATISTICS, CONT'D

		COGS	Gross	SG&A	R&D Expense	Sales & Marketing	EBITDA
Ticker	Company Name	As a % of Revenue	Margin	As a % of Revenue	As a % of Revenue	As a % of Revenue	Margin
Horizont	al SaaS Companies						
MOBL	MobileIron, Inc.	20.5%	79.5%	62.4%	38.8%	47.5%	(20.0%)
MODN	Model N, Inc.	45.6%	54.4%	42.8%	21.5%	23.4%	(5.5%)
NEWR	New Relic, Inc.	16.9%	83.1%	71.4%	25.1%	55.4%	(6.6%)
PAYC	Paycom Software, Inc.	12.1%	87.9%	41.6%	9.9%	24.3%	33.8%
PCTY	Paylocity Holding Corporation	32.3%	67.7%	45.8%	14.0%	25.8%	14.7%
PEGA	Pegasystems Inc.	34.0%	66.0%	58.3%	22.5%	52.1%	(12.5%)
PFPT	Proofpoint, Inc.	26.6%	73.4%	59.3%	25.9%	46.9%	(2.8%)
QLYS	Qualys, Inc.	21.6%	78.4%	34.7%	21.2%	22.0%	32.9%
RNG	RingCentral, Inc.	25.6%	74.4%	62.7%	15.1%	47.5%	0.9%
CRM	salesforce.com, inc.	25.0%	75.0%	55.1%	16.3%	45.6%	14.7%
SCWX	SecureWorks Corp.	46.0%	54.0%	46.0%	17.2%	28.2%	(1.4%)
NOW	ServiceNow, Inc.	23.0%	77.0%	54.1%	21.6%	44.3%	8.5%
SHOP	Shopify Inc.	45.1%	54.9%	40.9%	23.0%	29.7%	(7.2%)
SMAR	Smartsheet Inc.	19.2%	80.8%	82.0%	34.9%	63.4%	(30.4%)
ULTI	The Ultimate Software Group, Inc.	38.1%	61.9%	37.5%	19.4%	25.0%	9.8%
UPLD	Upland Software, Inc.	31.3%	68.7%	35.9%	13.2%	14.7%	23.9%
VRNS	Varonis Systems, Inc.	13.7%	86.3%	83.4%	31.8%	66.1%	(27.4%)
WIX	Wix.com Ltd.	24.2%	75.8%	51.7%	33.1%	40.8%	(7.0%)
WDAY	Workday, Inc.	29.5%	70.5%	41.0%	42.6%	31.7%	(5.5%)
WK	Workiva Inc.	28.1%	71.9%	51.3%	31.0%	38.8%	(9.1%)
YEXT	Yext, Inc.	25.5%	74.5%	95.9%	15.9%	71.7%	(34.6%)
ZEN	Zendesk, Inc.	28.7%	71.3%	64.7%	25.4%	48.6%	(14.9%)
ZIXI	Zix Corporation	40.2%	59.8%	43.7%	12.5%	N/A	15.9%
ZUO	Zuora, Inc.	49.0%	51.0%	57.4%	25.9%	41.1%	(28.7%)
	Min	12.1%	51.0%	24.1%	9.9%	12.6%	(34.6%)
	Median	28.1%	71.9%	51.3%	21.4%	39.5%	(2.4%)
	Mean	29.4%	70.6%	53.2%	23.0%	38.6%	0.2%
	Max	49.0%	87.9%	95.9%	49.8%	71.7%	44.0%



Source: CapitalIQ

_

BALANCE SHEET METRICS

FA SaaS Index - Balance Sheet Metrics - As of Q4 2019

Ticker	Company Name	Return on Assets	Return on Equity	Current Ratio	Days Sales Outstanding	Days Payable Outstanding	Liabilities/ Assets	Debt/ Equity
	SaaS Companies	A33613	Lquity	Natio	Outstanding	Outstanding	A33613	Equity
TWOU	2U, Inc.	(11.1%)	(33.2%)	1.7x	21.0	93.1	40.1%	45.1%
APPF	AppFolio, Inc.	3.6%	29.5%	1.5x	10.3	5.1	46.4%	57.79
BKI	Black Knight, Inc.	4.8%	5.9%	1.0x	57.1	37.4	52.1%	81.39
BLKB	Blackbaud, Inc.	1.1%	3.1%	0.7x	35.6	35.9	80.1%	141.89
EBIX	Ebix, Inc.	6.0%	13.6%	1.5x	101.9	213.1	63.7%	132.3%
FDS	FactSet Research Systems Inc.	18.0%	58.8%	2.6x	38.4	40.8	60.7%	121.5%
INOV	Inovalon Holdings, Inc.	1.8%	(1.2%)	2.3x	71.6	72.1	65.3%	157.5%
INST	Instructure, Inc.	(16.7%)	(58.3%)	1.0x	53.8	39.8	60.1%	33.0%
MDSO	Medidata Solutions, Inc.	2.2%	7.2%	2.6x	89.4	17.3	35.5%	30.1%
MCO	Moody's Corporation	13.1%	192.1%	1.9x	N/A	N/A	91.9%	740.7%
QTWO	Q2 Holdings, Inc.	(4.3%)	(24.8%)	5.9x	30.1	, 19.7	60.9%	119.8%
RP	RealPage, Inc.	2.6%	4.0%	0.8x	46.7	30.9	49.9%	64.2%
SPSC	SPS Commerce, Inc.	5.8%	10.0%	4.2x	38.6	17.2	20.7%	6.7%
TEMN	Temenos AG	7.4%	48.7%	0.8x	112.6	108.2	80.8%	263.9%
TYL	Tyler Technologies, Inc.	4.9%	10.0%	1.3x	113.1	31.1	26.2%	1.4%
VEEV	Veeva Systems Inc.	10.9%	22.7%	5.4x	45.9	13.9	18.0%	1.8%
	Min	(16.7%)	(58.3%)	0.7x	10.3	5.1	18.0%	1.4%
	Median	4.2%	8.6%	1.6x	46.7	35.9	56.1%	72.7%
	Mean	3.1%	18.0%	2.2x	57.7	51.7	53.3%	124.9%
	Max	18.0%	192.1%	5.9x	113.1	213.1	91.9%	740.7%
Horizont	al SaaS Companies							
EGHT	8x8, Inc.	(17.0%)	(67.3%)	2.5x	30.6	80.5	70.0%	172.2%
ADBE	Adobe Inc.	10.3%	29.7%	0.8x	46.4	43.1	49.3%	39.3%
ALRM	Alarm.com Holdings, Inc.	8.0%	16.1%	4.7x	46.4	43.3	32.9%	31.5%
AMBR	Amber Road, Inc.	(5.9%)	(39.7%)	0.6x	63.2	24.4	72.7%	101.3%
TEAM	Atlassian Corporation Plc	(0.5%)	(28.8%)	1.0x	27.2	47.1	74.5%	129.3%
BNFT	Benefitfocus, Inc.	(8.8%)	N/A	2.5x	49.2	20.6	108.2%	-1040.0%
BL	BlackLine, Inc.	(2.3%)	(8.8%)	3.5x	112.2	33.6	60.2%	99.1%
BOX	Box, Inc.	(11.9%)	(575.8%)	0.8x	57.8	26.2	97.5%	2048.8%
BCOV	Brightcove Inc.	(2.9%)	(24.3%)	0.8x	57.0	40.6	56.1%	21.7%
CARB	Carbonite, Inc.	4.1%	8.6%	5.7x	68.9	16.5	10.7%	N/#
CSLT	Castlight Health, Inc.	(8.7%)	(17.3%)	1.8x	80.5	55.4	26.9%	11.2%
ECOM	ChannelAdvisor Corporation	2.3%	3.7%	2.3x	64.0	12.7	32.2%	15.4%
CTXS	Citrix Systems, Inc.	7.5%	98.2%	0.8x	85.4	71.8	80.9%	119.3%
CSOD	Cornerstone OnDemand, Inc.	0.4%	(18.0%)	1.5x	63.9	22.7	84.9%	286.2%
COUP	Coupa Software Incorporated	(3.9%)	(21.6%)	2.1x	67.3	10.4	69.6%	167.7%
DOCU	DocuSign, Inc.	N/A	N/A	1.5x	65.0	41.7	68.1%	110.2%
EGAN	eGain Corporation	5.6%	34.5%	1.4x	80.2	31.6	63.3%	13.7%
EVBG	Everbridge, Inc.	(7.7%)	(37.8%)	1.8x	87.4	40.5	56.0%	54.0%
FIVN	Five9, Inc.	1.1%	(1.1%)	6.1x	33.6	16.5	60.8%	124.6%
HUBS	HubSpot, Inc.	(2.4%)	(12.0%)	3.4x	45.9	29.0	58.6%	93.6%
INTU	Intuit Inc.	21.1%	49.3%	1.8x	4.8	73.8	41.2%	21.3%
KXS	Kinaxis Inc.	5.3%	9.4%	3.3x	78.2	32.6	29.5%	4.8%
LPSN	LivePerson, Inc.	(13.2%)	(60.2%)	1.8x	83.6	48.7	71.0%	133.6%
LOGM	LogMeIn, Inc.	0.8%	(0.5%)	0.5x	30.2	49.4	28.9%	11.29
MIME	Mimecast Limited	(0.2%)	(3.5%)	1.1x	65.2	34.9	68.6%	107.3%



BALANCE SHEET METRICS, CONT'D

		Return on	Return on	Current	Days Sales	Days Payable	Liabilities/	Debt/
Ticker	Company Name	Assets	Equity	Ratio	Outstanding	Outstanding	Assets	Equity
Horizon	al SaaS Companies							
MOBL	MobileIron, Inc.	(13.2%)	(108.4%)	1.3x	106.5	15.0	83.1%	43.8%
MODN	Model N, Inc.	(5.3%)	(32.1%)	1.3x	74.1	16.1	65.9%	85.6%
NEWR	New Relic, Inc.	(4.2%)	(22.7%)	3.0x	68.0	50.5	67.6%	130.5%
PAYC	Paycom Software, Inc.	7.1%	41.9%	1.1x	3.1	23.1	78.8%	11.6%
PCTY	Paylocity Holding Corporation	1.8%	19.8%	1.1x	3.2	7.8	85.7%	25.5%
PEGA	Pegasystems Inc.	(8.6%)	(15.6%)	1.3x	148.7	20.0	45.3%	12.7%
PFPT	Proofpoint, Inc.	(3.7%)	(23.6%)	1.6x	95.5	28.1	74.7%	136.0%
QLYS	Qualys, Inc.	7.4%	18.6%	1.8x	87.3	16.9	42.7%	13.4%
RNG	RingCentral, Inc.	(1.6%)	(10.1%)	1.9x	50.1	N/A	48.6%	55.7%
CRM	salesforce.com, inc.	1.1%	3.1%	1.1x	58.4	134.7	33.4%	19.5%
SCWX	SecureWorks Corp.	(3.0%)	(5.5%)	1.1x	85.0	32.0	35.2%	4.5%
NOW	ServiceNow, Inc.	0.5%	38.7%	1.0x	74.4	19.2	64.7%	53.1%
SHOP	Shopify Inc.	(3.1%)	(4.9%)	8.7x	7.5	38.9	13.6%	5.0%
SMAR	Smartsheet Inc.	(10.1%)	(22.7%)	3.1x	49.6	27.5	32.0%	12.3%
ULTI	The Ultimate Software Group, Inc.	1.9%	8.4%	1.0x	67.0	13.1	69.6%	11.5%
UPLD	Upland Software, Inc.	2.2%	(15.4%)	1.6x	64.0	21.8	68.1%	159.3%
VRNS	Varonis Systems, Inc.	(15.7%)	(72.0%)	1.3x	113.6	18.9	70.6%	69.8%
WIX	Wix.com Ltd.	(4.4%)	(42.4%)	2.0x	7.8	92.3	80.8%	205.8%
WDAY	Workday, Inc.	(5.1%)	(22.0%)	1.2x	58.4	11.6	62.3%	66.9%
WK	Workiva Inc.	(4.5%)	(136.8%)	2.6x	54.5	22.9	88.8%	453.5%
YEXT	Yext, Inc.	(19.5%)	(74.9%)	2.0x	47.6	37.3	56.3%	55.8%
ZEN	Zendesk, Inc.	(7.0%)	(38.8%)	1.4x	47.6	43.0	69.8%	128.6%
ZIXI	Zix Corporation	1.3%	(2.3%)	0.3x	17.2	42.1	63.7%	128.8%
ZUO	Zuora, Inc.	N/A	N/A	1.8x	78.4	6.1	49.4%	6.9%
	Min	(19.5%)	(575.8%)	0.3x	3.1	6.1	10.7%	(1040.0%)
	Median	(2.4%)	(13.7%)	1.6x	63.9	30.3	63.7%	55.7%
	Mean	(2.2%)	(25.8%)	2.0x	60.4	35.1	59.7%	99.5%
	Max	21.1%	98.2%	8.7x	148.7	134.7	108.2%	2048.8%



FOUNDERS TECHNOLOGY TRANSACTIONS







FOUNDERS ADVISORS

Technology Team Contacts

Zane Tarence Managing Director / Partner ztarence@foundersib.com

Chris Weingartner Director cweingartner@foundersib.com

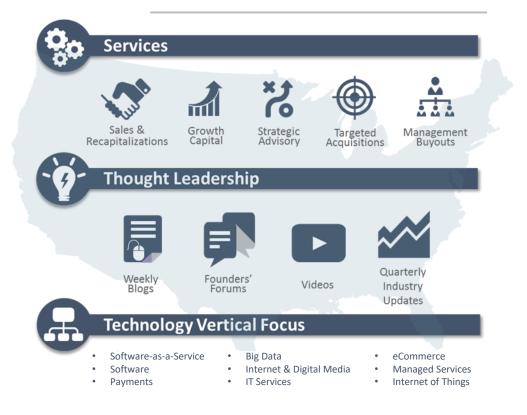
Brad Johnson Vice President bjohnson@foundersib.com

Billy Pritchard Vice President bpritchard@foundersib.com

William Short Associate wshort@foundersib.com

Matt Stanford Analyst mstanford@foundersib.com

Rebecca Askew Practice Group Manager raskew@foundersib.com **FOUNDERS ADVISORS** is a merger, acquisition & strategic advisory firm serving middle-market companies. Founders' focus is on SaaS, software, internet, digital media, industrials, oil and gas, business services, consumer, and healthcare companies located nationwide. Founders' skilled professionals, proven expertise and process-based solutions help companies access growth capital, make acquisitions, and/or prepare for and execute liquidity events to achieve specific financial goals.



In order to provide securities-related services discussed herein, certain principals of Founders are licensed with M&A Securities Group, Inc. or Founders M&A Advisory, LLC, both members FINRA & SiPC. Founders M&A Advisory is a wholly owned subsidiary of Founders. M&A Securities Group and Founders are not affiliated entities. For more information, visit www.foundersib.com.

