

Technology Group
Industrial Software

Supply Chain, Engineering, and Manufacturing Software

MARKET UPDATE WINTER 2022



Dear Clients and Friends,

Houlihan Lokey is pleased to present the winter 2022 edition of its Industrial Software Market Update. We have continued adapting to a recovering market and remain active in advising our clients as they pursue M&A, financing, and other strategic initiatives. We have included industry insights, select recent transaction announcements, and a public markets overview to help you stay ahead in our dynamic and constantly evolving industry.

Market Activity:

- M&A and financing activity across the sector retracted slightly throughout Q4 2022 due to broader macro headwinds. However, market activity has shown improvement as Q1 2023 progresses:
 - **~\$8 billion of LTM financing activity** as capital markets tighten relative to recent historical low cost of financing.
 - ~\$12 billion in LTM M&A deal volume⁽¹⁾ in line with a broader M&A slowdown in 2022.
- M&A and financing activity across industrial software will accelerate in 2023 as macroeconomic conditions improve and end customers look to drive operational efficiency to offset increased cost basis driven by inflation and cost of financing.

Regards,



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Representative Industry Subsectors Covered



Sources: PitchBook.com, S&P Capital IQ.

(1) M&A \$ volume includes only transactions with publicly available financial metrics.

Transaction Spotlight: WiseTech Acquires Blume Global

Transaction Overview



Company Highlights

Houlihan Lokey acted as the exclusive financial advisor to Blume Global on its sale to WiseTech Global (ASX:WTC).

- On February 16, 2023, Blume Global (Blume) announced that it has been acquired by WiseTech Global.
- Blume provides visibility throughout the value chain, from sourcing to delivery, allowing customers to use Blume solutions to navigate disruptions and create agile plans amid supply chain uncertainty.
- Blume manages intermodal containers and chassis on behalf of six of the seven Class 1 U.S. railroads, ocean carriers, and global freight forwarders.

Select Transaction Commentary

Joining the WiseTech Global group means greater scale and resources to make logistics processes more productive, agile, dependable, and sustainable with innovative execution and visibility solutions.

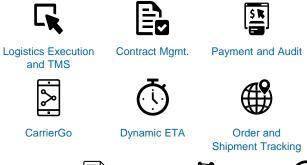
-Pervinder Johar, CEO, Blume Global

This is another strategically significant acquisition...It further extends our capability in one of our six key CargoWise development priority areas, integrating rail into our landside logistics offering in North America.

-Richard White, CEO, WiseTech Global

Blume Global Product Suite





Asset Mamt. and Reload



Maps and **Control Tower**







Order Mgmt.

Supplier Quality and Collaboration

Sourcing

Transaction Spotlight: QAD Acquires Redzone

Select Transaction Commentary

QAD has concentrated on delivering industry best practices to manufacturers supported by industry leading technology delivered through the cloud. Redzone's focus on people, their productivity and engagement addresses a primary area of opportunity for our customers.

-**Anton Chilton,** CEO, QAD

Redzone Software Product Suite

Joining QAD will accelerate our mission of transforming manufacturing by empowering the frontline. We have always put the frontline worker at the heart of our technology...fastest way to unlock productivity on the plant floor.

-Richard Tester, CEO, Redzone

Transaction Overview





- On February 1, 2023, QAD, a Thoma Bravo portfolio company, closed its acquisition of Redzone for an estimated amount of ~\$1 billion.⁽¹⁾
- Prior to the acquisition, Summit Partners made a significant minority investment in Redzone on January 1, 2020.
- More than 1,000 plants and 300,000 frontline workers worldwide rely on Redzone's solutions to create a better employee experience for frontline teams and transform productivity by energizing and arming teams with the digital workflows and collaboration tools to get the most out of every shift.

Company Highlights





Frontline Collaboration



Reliability

Productivity



Learning



Compliance



Integrations

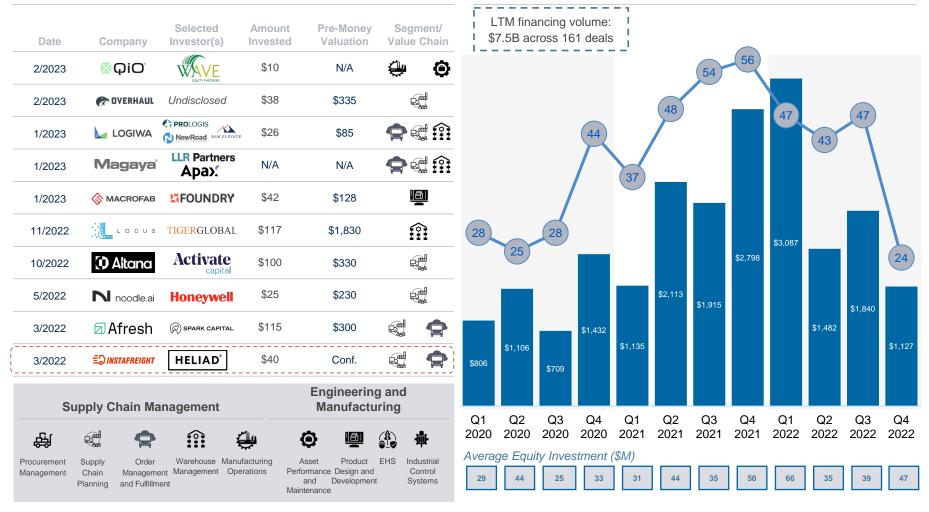
Financing Activity Continues Across Value Chain Categories

Fundraising frequency retracted in Q4 2022 but was offset by an increase in check size, indicating investors have become more selective but look to continue increasing exposure to the domain.

Select Industrial Software Financings (\$M)

Sources: PitchBook.com, S&P Capital IQ.

Industrial Software Quarterly Financing Activity (\$M)

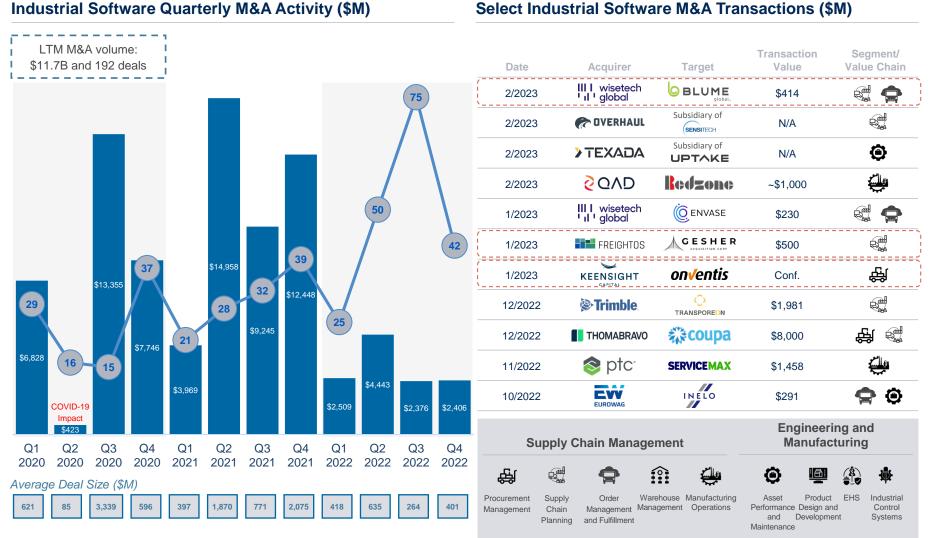


CCCC Houlihan Lokey Advisory Transaction

Notes: Includes early-stage and later-stage venture investments from funds and strategics. Financing \$ volume and average deal size includes only transactions with publicly available financials. Houlihan Lokey

Strategic M&A Activity Continues Across the Ecosystem

Consolidators are currently driving activity with a healthy amount of frequency but reduced deal size over the LTM period.



Sources: PitchBook.com, S&P Capital IQ, 451 Research, press releases.

Note: M&A \$ volume and average deal size includes only transactions with publicly available financials.

ETT: Houlihan Lokey Advisory Transaction

Most Active Industrial Software Strategic Acquirers

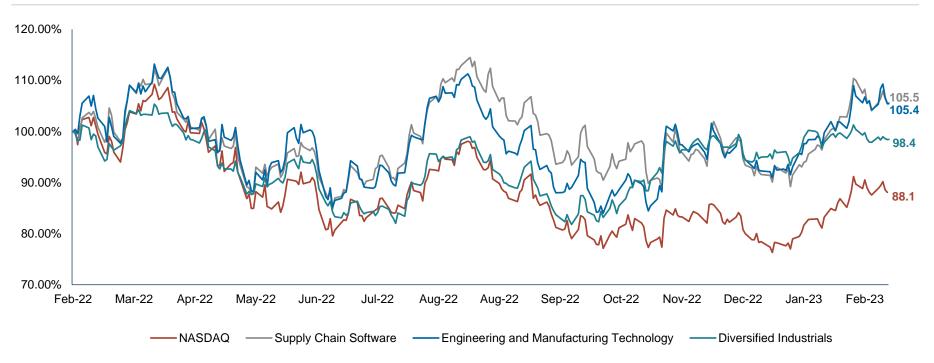
Acquirer	# Acquisitions (Since Jan. 1, 2020)					Targets			
🛦 aptean	15	Merlin ^{IIII} (2022) Ramsauer <u>Störmer</u> (2021)	(2022) EXENTA. (2021)	(2022) (2022) (2021)	(2022) * Larcom (2020)	RLM SOFTWARE (2022) OSAS (2020)	(2022)	(2021)	Objective (2021)
Bentley ®	11	C2023) VISTA DATA VISION (2021)	(2022)	(2022) (2022) COHESIVE solutions (2020)	(2022)	Р/WER LINE s	S SEEQUENT (2021)	(2021)	Sensemetrics (2021)
HEXAGON	10	(2022) (2022) (2022) (2020)	Accelerator (2022) PASS (2020)	etq (2022)	Jovix (2021)	EAM Business Solutions] (2021)	(2021)	Calculate SPIRIT (2020)	CAE fatigue (2020)
AUTODESK	9	(2022) (2022) (2022) (2020)	(2022)	prodsmart (2022)	(2021)	office (2021)	aPriori (2021)	Upchain Reaming lange (2021)	Innovyze * (2021)
revalize	8	PROFILE (2021)	TENADO * (2021)	Sofon (2021)	(2021)	CONFIGURE ONE (2021)	(2021)	SpecPage Recent to Success (2021)) Axonom Inc. (2020)
eci	7	(2022)	Distributions (2022)	(2021)	deacom accordant la circle context (2021)	shoptech (2020)	(2020)	(2020)	
SANDVIK	6	(2021)	JCAM (2021)	Mastercam O QUEE MAIT SMIES (2021)	CAMBRIO (2021)	OQTON (2021)	(2020)		
DESC RTES	6	SUPPLY VISION (2023)	(2022)	Net Chb. (2022)	PLS (2021)	Questa Web, Inc. Global Trade Nanagarredi Solutions (2021)	Kontainers (2020)		
III I wisetech ' ıl ' global	5	BLUME (2023)	(2023)	Shipamax (2022)	Bolero (2022)	SISO Great Was (2020)			
📚 ptc	5	GloudMilling (2022)	SERVICEMAX (2023)	INTLAND SOFTWARE (2022)	☐ RE'FLEKT (2022)	(2021)			

Most Active Industrial Software Financial Sponsors



Industrial Software's Recovery Has Continued to Outperform Broader Tech

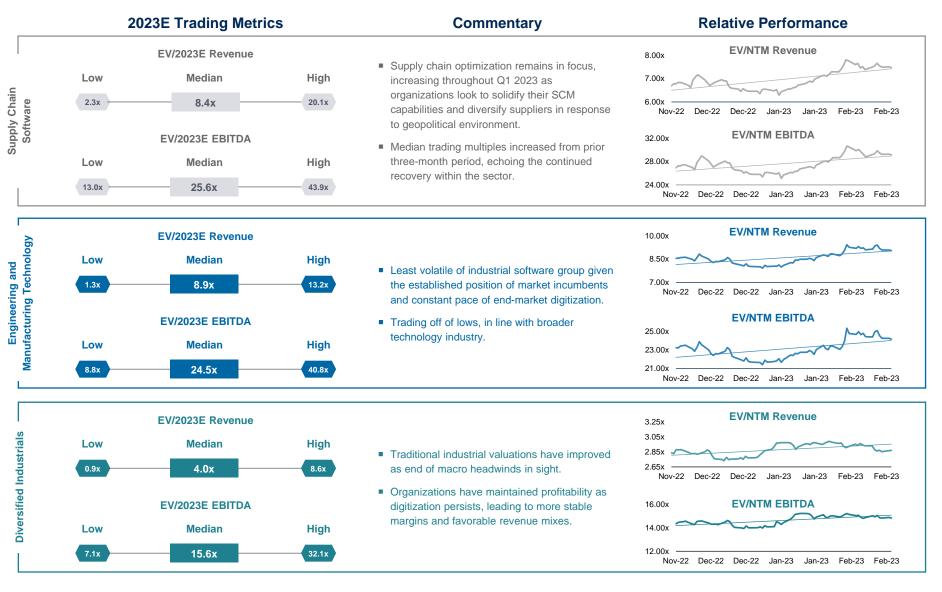
Share Price Performance



Public Company Ecosystem Segmentation

AMERICAN SOFTWARE	upply Chain Softw @aspentech	DESCARTES	Engineering and Manufacturing Technology	Diversified Industrials
e2open	кına⊀ıs	Manhattan Associates.	rautodesk Bentley cādence	
PARK CITY G R O U P Sel Hore-Sec Corrylog	samsara 🕅	(B)		
III tecsys): Trimble .	III I wisetech ' ıl ' global	PSI 👳 synopsys [.]	SANDVIK Schneider SIEMENS VELO ³⁰ V. ZEBRA

Industrial Software Valuations Are Among the Highest Across All Software Domains



Sources: S&P Capital IQ, company information.

Notes: Trading multiples are based on share price, other market data, and broker consensus future earnings estimates from S&P Capital IQ as of February 20, 2023. All financials calendarized to a December year-end.

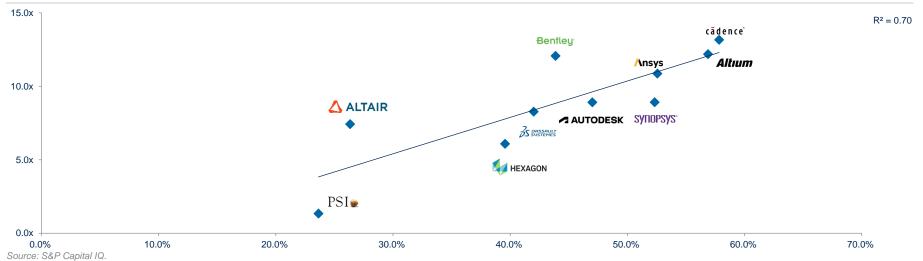
Valuation Is Correlated to Revenue Growth and EBITDA Margin

As markets have become more concerned about profitable scalability, the combination of growth and profitability yields the highest valuations.

25.0x $R^2 = 0.58$ III I wisetech 20.0x 15.0x DESCARTES **M** Manhattan Æ (aspentech samsara 10.0x **KINAXIS** e2open 5.0x 📥 🖗 Trimble T tecsvs AMERICAN SOFTWARE 0.0x 0.0% 10.0% 20.0% 30.0% 40.0% 50.0% 60.0% 70.0% 80.0% 90.0%

Rule of 40 vs. EV/2023E Revenue—Supply Chain Software

Rule of 40 vs. EV/2023E Revenue—Engineering and Manufacturing Technology



Notes: Trading multiples are based on share price, other market data, and broker consensus future earnings estimates from S&P Capital IQ as of February 20, 2023. All financials calendarized to a December year-end.

Selected Publicly Listed Comparables

	Company Name	Market Cap EV		EV/Revenue		EV/EI	EV/EBITDA		EBITDA Margin		2022E-2024E CAGR	
		USD M	USD M	2023	2024	2023	2024	2023	2024	Revenue	EBITDA	
	American Software	\$501	\$389	2.9x	2.7x	17.4x	15.8x	16.9%	17.3%	5.5%	7.2%	
supply Chain Software	Aspen Technology	11,794	13,779	11.2x	10.1x	23.9x	18.8x	46.8%	53.6%	21.8%	24.6%	
	Descartes Systems Group	6,501	6,151	11.5x	10.4x	25.6x	23.0x	44.9%	45.3%	10.5%	11.7%	
	E2open	2,144	3,154	4.5x	4.2x	13.1x	12.1x	34.5%	34.5%	9.2%	11.7%	
	Kinaxis	3,253	3,113	7.5x	6.4x	43.9x	34.5x	17.0%	18.6%	14.8%	11.9%	
	Manhattan Associates	9,214	8,876	10.7x	9.5x	39.9x	33.7x	26.8%	28.3%	10.1%	9.7%	
	Park City Group	119	96	4.7x	4.2x	13.0x	10.5x	36.6%	40.3%	10.5%	24.0%	
, İ	Samsara	7,553	7,608	9.3x	7.3x	NM	NM	NM	NM	28.0%	(26.6%)	
-	SPS Commerce	5,612	5,276	10.0x	8.7x	34.1x	28.9x	29.4%	30.2%	15.8%	17.4%	
	Tecsys	294	267	2.3x	2.0x	27.8x	15.5x	8.2%	13.2%	10.1%	70.6%	
	Trimble	13,811	15,021	4.0x	3.7x	15.4x	14.4x	25.8%	26.1%	4.4%	6.7%	
	WiseTech Global	12,723	12,419	20.1x	16.3x	38.7x	30.5x	51.1%	52.8%	26.2%	28.0%	
	Mean			8.2x	7.1x	26.6x	21.5x	30.7%	32.7%	14.1%	16.6%	
	Median			8.4x	6.9x	25.6x	18.8x	29.4%	30.2%	10.5%	11.8%	
	Altair Engineering	\$4,398	\$4,479	7.4x	6.8x	40.8x	33.4x	18.2%	20.4%	8.5%	19.9%	
echnology	Altium Ltd.	3,652	3,436	12.2x	10.4x	32.5x	27.0x	37.4%	38.5%	18.3%	20.5%	
	ANSYS	23,738	23,837	10.9x	10.0x	24.5x	22.7x	44.3%	44.1%	8.4%	10.4%	
	Autodesk	48,176	48,659	8.9x	7.9x	23.6x	20.6x	37.8%	38.6%	10.6%	12.8%	
	Bentley Systems	13,399	14,426	12.1x	10.9x	35.0x	30.3x	34.5%	36.0%	10.0%	14.4%	
CUL	Cadence Design Systems	53,473	53,108	13.2x	12.0x	29.5x	26.1x	44.6%	45.9%	11.5%	13.9%	
<u>e</u>	Dassault Systemes	53,290	53,197	8.3x	7.6x	23.1x	20.0x	35.8%	38.0%	7.5%	9.4%	
, Te	Hexagon AB	30,943	34,406	6.1x	5.7x	16.4x	15.0x	37.0%	37.8%	4.8%	6.8%	
	PSI Software	418	394	1.3x	1.2x	8.8x	7.6x	15.2%	16.1%	8.8%	22.0%	
	Synopsys	55,313	53,455	8.9x	8.1x	24.5x	22.1x	36.5%	36.7%	12.8%	15.3%	
[Mean			8.9x	8.1x	25.9x	22.5x	34.1%	35.2%	10.1%	14.5%	
	Median			8.9x	8.0x	24.5x	22.4x	36.7%	37.9%	9.4%	14.1%	

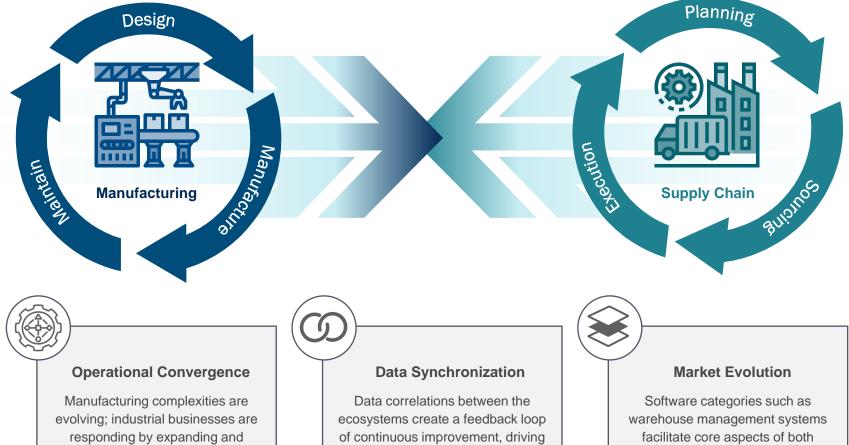
Sources: S&P Capital IQ, company information.

Notes: Trading multiples are based on share price, other market data, and broker consensus future earnings estimates from S&P Capital IQ as of February 20, 2023. All financials calendarized to a December year-end.

Selected Publicly Listed Comparables (cont.)

Company Name	Market Cap	/larket Cap EV		EV/Revenue		EV/EBITDA		Margin	2022E-2024E CAGR	
	USD M	USD M	2023	2024	2023	2024	2023	2024	Revenue	EBITDA
ABB	\$65,560	\$68,050	2.2x	2.2x	13.5x	12.8x	16.4%	16.9%	3.3%	13.0%
Cognex	8,418	7,946	8.5x	7.4x	32.1x	23.3x	26.5%	31.6%	3.5%	7.4%
Danaher	188,919	202,014	6.7x	6.2x	19.8x	18.1x	33.8%	34.4%	1.5%	1.1%
Emerson	56,691	62,924	4.1x	4.0x	16.7x	15.6x	24.9%	25.6%	(7.8%)	(11.6%)
ESI Group	452	468	3.1x	2.9x	13.6x	11.1x	22.8%	26.1%	6.2%	21.6%
Fanuc	32,486	28,376	4.5x	4.4x	15.6x	14.2x	29.0%	30.9%	1.5%	5.3%
Fortive	25,030	27,024	4.5x	4.3x	16.8x	15.6x	26.7%	27.3%	4.3%	6.8%
GE	92,643	104,648	1.7x	1.6x	15.2x	11.9x	11.0%	13.1%	(6.4%)	(0.0%)
GE Hitachi Honeywell Keysight Materialise National Instruments	55,198	68,601	0.9x	0.9x	7.1x	6.7x	13.4%	13.7%	(5.4%)	1.1%
Honeywell	138,219	145,633	4.0x	3.8x	15.5x	14.4x	25.5%	26.1%	4.6%	4.3%
Keysight	33,812	33,109	5.8x	5.5x	18.6x	17.9x	31.2%	30.7%	4.1%	2.8%
Materialise	537	473	1.7x	1.5x	16.1x	10.1x	10.7%	15.3%	11.3%	51.9%
National Instruments	6,912	7,255	4.0x	3.7x	18.7x	16.7x	21.6%	22.4%	8.2%	23.9%
OMRON	10,765	10,275	1.6x	1.6x	11.9x	11.3x	13.6%	14.2%	0.2%	2.2%
Rockwell Automation	34,896	38,358	4.4x	4.2x	20.3x	18.6x	21.7%	22.4%	8.1%	12.4%
Roper	45,676	51,225	8.6x	8.1x	21.1x	20.0x	40.7%	40.6%	8.4%	8.6%
Sandvik	26,635	30,973	2.7x	2.6x	10.9x	10.5x	24.6%	25.1%	4.5%	10.5%
Schneider Electric	95,262	102,567	2.7x	2.6x	13.5x	12.7x	19.8%	20.7%	3.6%	3.4%
Siemens	130,488	170,213	2.0x	1.9x	11.4x	10.8x	17.7%	17.4%	7.2%	4.7%
Velo3D	629	547	4.2x	2.4x	NM	NM	NM	NM	69.1%	(53.6%)
Zebra	16,954	18,651	3.3x	3.1x	14.6x	13.2x	22.3%	23.4%	2.2%	7.1%
Mean Median			3.9x 4.0x	3.6x 3.1x	16.2x 15.6x	14.3x 13.7x	22.7% 22.5%	23.9% 24.3%	12.3% 7.7%	7.1% 7.9%
Overall Mean			6.2x	5.6x	21.3x	18.2x	27.6%	29.0%	9.4%	10.9%
Overall Median			4.5x	4.3x	18.6x	15.8x	26.5%	27.3%	8.2%	10.4%

Convergence of Industrial Software Is Accelerating



ever-tighter integrations and a pursuit

of synchronization across the

industrial workflow.

Driving Forces

deepening interconnections of

production and efficient, nimble

supply chain operations.

domains; product suite evolution

toward end-to-end functionality has

become a logical opportunity for technology providers.

How Houlihan Lokey Covers the Industrial Software Domain

- Supply chain and manufacturing processes converge to facilitate the industrial business workflow.
- Software has enabled the industrial business to digitalize and integrate their entire processes, from planning to manufacturing operations to supply chain execution.
- Overlap of end-customer bases for manufacturing and supply chain software has driven market incumbents to expand offerings across both categories.
- These dynamics create our holistic perspective of the industrial software ecosystem, a solution set focused on end-to-end industrial operations.

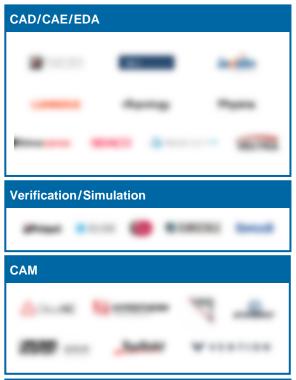


Illustrative Manufacturing Software Landscape

Design/Engineer

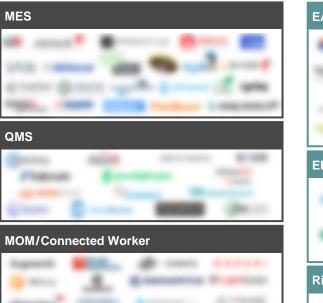
PLM/PIM/PDM

Major Platforms/Buyers

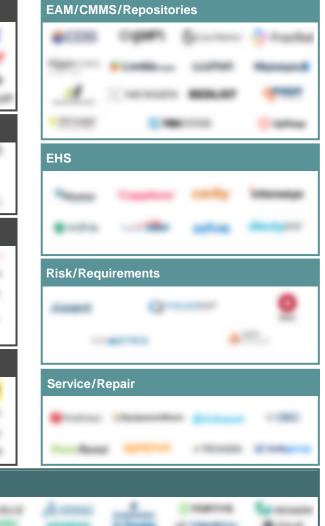


Execute/Manufacture

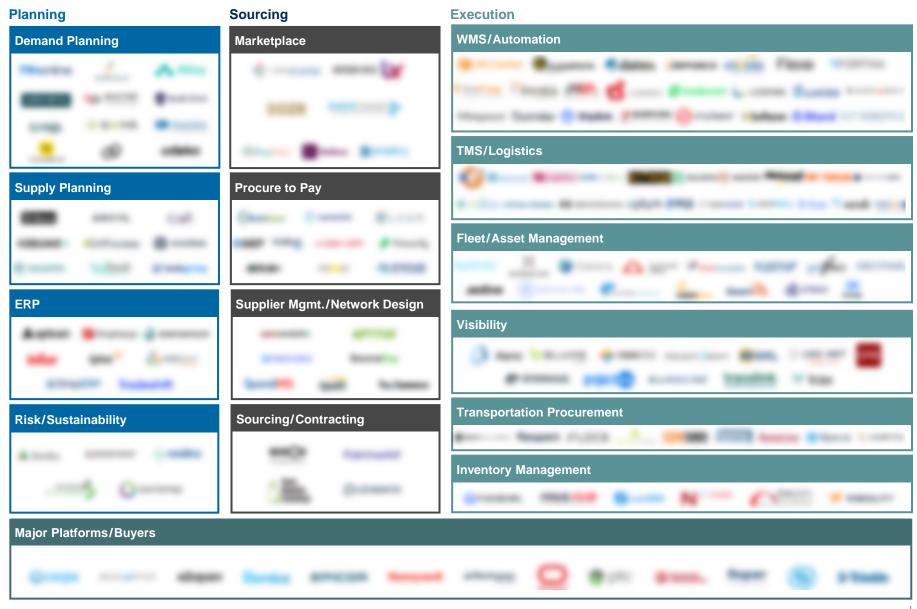
SCADA/IIoT/DCS/PLC/HMI



Manage/Maintain



Illustrative Supply Chain Software Landscape



Note: Market maps are available by contacting Timothy Macholz or the team directly.

Houlihan Lokey Has Unmatched Experience in the Industrial Software Sector

Houlihan Lokey's widespread reach and recognized thought leadership across the industrial software market creates relationships with financial and strategic investors alike.



Presence at key industry events throughout the year



Gartner. SUPPLY CHAIN SYMPOSIUM Xpo.



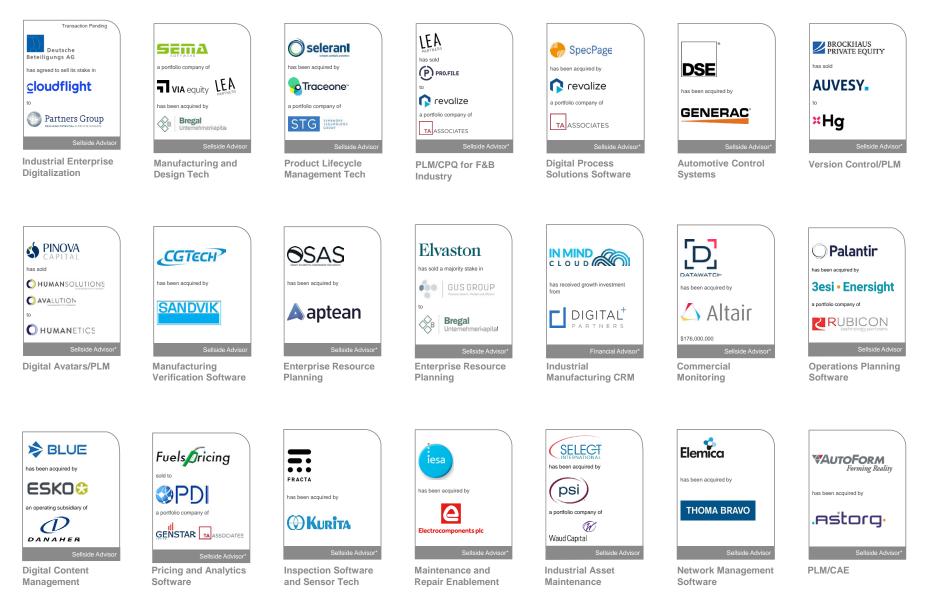




Active Ongoing Buyer Dialogue

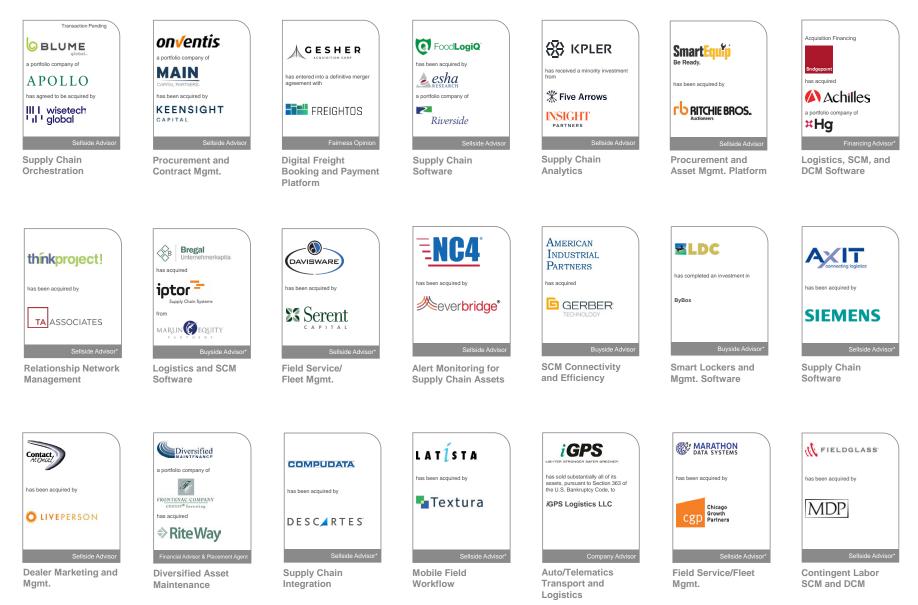


Domain Expertise: Manufacturing Software



*Selected transactions were executed by Houlihan Lokey professionals while at other firms acquired by Houlihan Lokey or by professionals from a Houlihan Lokey joint venture company. Tombstones included herein represent transactions closed from 2016 forward.

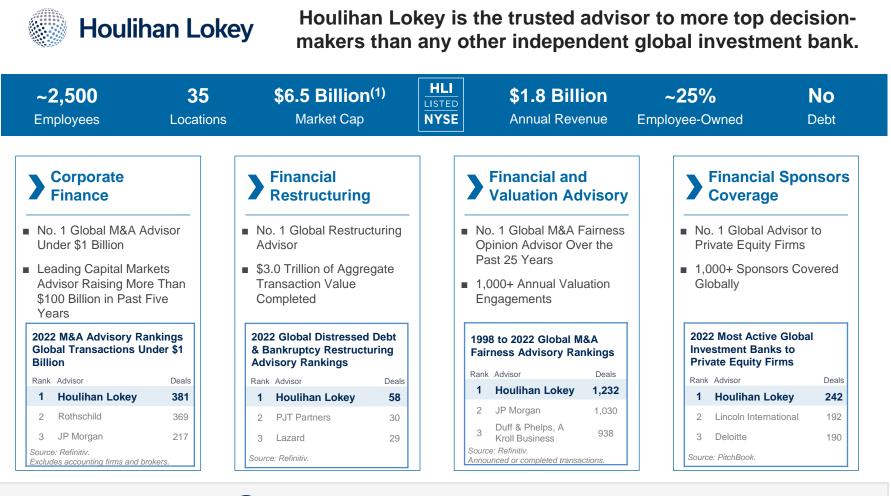
Domain Expertise: Supply Chain Management



*Selected transactions were executed by Houlihan Lokey professionals while at other firms acquired by Houlihan Lokey or by professionals from a Houlihan Lokey joint venture company. Tombstones included herein represent transactions closed from 2010 forward.

Houlihan Lokey 20

Leading Independent, Global Advisory Firm



Houlihan Lokey 🕂

Oakley Advisory

Houlihan Lokey has acquired Oakley Advisory, an independent advisory firm that provides a range of services to clients across the digital infrastructure, communications services, and cloud landscape.

With the addition of Oakley, Houlihan Lokey will cover the full spectrum of digital infrastructure and connectivity in the U.S. and Europe...

- Broadband and Connectivity
- Towers and Shared Infrastructure
- Data Centers and Managed Services
- Wireless and Spectrum
- Telecom Services
- Telecom Software

(1) As of January 2023.

Houlihan Lokey Is the Trusted Advisor to More Top Decision-Makers Than Any Other Independent Global Investment Bank

2022 Investment Banking Rankings All Global Technology Transactions

	Advisor	Deals
1	Houlihan Lokey	116
2	Goldman Sachs	106
3	Morgan Stanley	79
4	Rothschild	76
5	JP Morgan	75
Sour	ce: Refinitiv. Excludes accounting firms and brokers.	

2022 M&A Advisory Rankings Global Transactions Under \$1 Billion

	Advisor	Deals
1	Houlihan Lokey	381
2	Rothschild	369
3	JP Morgan	217
4	Lazard	206
5	Goldman Sachs	203
Sourc	ee: Refinitiv. Excludes accounting firms and brokers.	

No. 1 Global M&A Advisor

Under \$1 Billion

No. 1

Global Restructuring Advisor

No. 1

Global M&A Fairness Opinion Advisor Over the Past 25 Years* Leading Capital Markets Advisor

1,500+

Transactions Completed Valued at More Than \$3.0 Trillion Collectively

1,000+

Annual Valuation Engagements

Houlihan Lokey's Tech M&A Team Is No. 1 Globally With Unparalleled Reach

Miami Minneapolis New York	Amsterdam Dubai	Milan Munich	Beijing	Nagoya
	Dubai	Munich		
New York		manich	Fukuoka	Osaka
	Frankfurt	Paris	Gurugram	Shanghai
San Francisco	London	Stockholm	Ho Chi Minh City	Singapore
Washington, D.C.	Madrid	Tel Aviv	Hong Kong SAR	Sydney
	Manchester	Zurich	Mumbai	Tokyo
14 LOCATIONS	TECHNO	DLOGY MA	ANAGING T	116 ECHNOLOG
	14	Manchester 14 LOCATIONS	Manchester Zurich	Manchester Zurich Mumbai

Local Technology team

*According to data provided by Refinitiv.

How Houlihan Lokey Can Help

Our firm is extremely well equipped to help our clients navigate uncertain times. We respond guickly to challenging situations and are constantly helping clients analyze, structure, negotiate, and execute the best possible solutions from both strategic and financial perspectives.

What We Offer



We are widely recognized as a leading M&A advisor to the mid-cap and have long-standing relationships with capital providers, including commercial banks and other senior credit providers, insurance funds, asset managers, and mezzanine fund investors. Few other investment banks maintain the breadth of relationships and capital markets intelligence that we do.

We have the largest restructuring practice of any global investment bank. Since 1988, we have advised on more than 1,500 restructuring transactions (with aggregate debt claims in excess of \$3.0 trillion). We served as an advisor in 12 of the largest 15 bankruptcies from 2000 to 2022.

Over five decades, we have established ourselves as one of the largest financial and valuation advisory firms. Our transaction expertise and leadership in the field of valuation help inspire confidence in the financial executives, boards of directors, special committees, investors, and

Why We're Different



M&A*



Significant Experience With Senior-Level Commitment **Financing Markets**



and Dedication





Superior Work Product/ **Technical Abilities**



Creativity, Imagination, Tenacity, and Positivity

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