

Supply Chain and Logistics Technology Sector Update

Harris Williams | Q4 2022

Key Sector Observations and Macro Trends

The supply chain and logistics technology landscape is rapidly evolving, primarily driven by widespread technology adoption, increased demand for greater connectivity and visibility, and a rapidly shifting macro environment

Happening in Supply Chain & Logistics Tech Right Now



Building More Resilient and Agile Supply Chains

Pandemics, natural disasters, workforce shortages, and other supply chain shocks are magnifying blind spots in global supply chains.

Organizations are investing heavily in technology that enables them to anticipate and respond faster to sudden changes in supply and demand (e.g., shift from in-store to eCommerce, diversification away from single-sourced supply chains, near-shoring, etc.).

End-to-End Supply Chain Visibility

Rapid development of new technologies is increasing pressure to leverage real-time data from multiple applications to achieve greater supply chain visibility.

Corporate investments in disruption and business continuity planning are driving the need for increased visibility across the supply chain.





Increasingly Complex Global Supply Chain Networks

Integration of procurement, warehousing, and logistics processes into an organization's day-to-day operations is creating increased complexity and demand for technology innovation.

B2B supply chain networks are enabling organizations to better collaborate with their trading partners and service providers, providing greater operational efficiencies and transparency into each node of their supply chains.

Constantly Evolving Global Trade Environment

Organizations with intricate supply chains are investing in technology to help them better navigate an increasingly complex trade environment to ensure regulatory compliance and reduce operational risk.

> Heightened geopolitical tension and nationalistic trade policies are adding complexity and disrupting traditional supply chain networks.





Heightened Emphasis on Environmental, Social, and Governance (ESG)

Creating a more sustainable, ESG-focused supply chain requires widespread technology adoption to ensure that standards are met and upheld throughout each phase.

The emergence of vendor and supply chain risk management solutions are helping organizations better measure and report on key ESG metrics.

What We're Reading

Direct-to-Consumer Sales are Fueling Supply-Chain Tech Growth

The Wall Street Journal

There has been a significant push by retailers and CPG companies to increase their D2C channel to better respond to evolving consumer preferences. As a result, technology companies that are helping companies optimize their dropship and fulfillment capabilities are experiencing heightened demand.

Read the full article here.

Why Private Equity Investors Are Targeting the Chaotic Supply Chain Sector

SupplyChainBrain

According to a recent study, there were 53 private equity deals in the U.S. supply chain sector in 2021, representing approximately \$20 billion of total deal value. This represents a significant increase in sector deal activity compared to 2020 (\$7.9 billion) and 2019 (\$5.1 billion).

Read the full article here.

It's Time for Retailers to Take Back Control of Their Supply Chains

Forbes

The global pandemic upended traditional retail supply chains, and the aftershocks are still evident. According to a recent study by Prosper Insights & Analytics, 47.6% of executives surveyed think product shortages will continue for the next six to 12 months due to current supply chain issues.

Read the full article here.

Four Ways Collaboration Helps Build Supply Chain Resiliency

Supply Chain Dive

A key theme amongst supply chain leaders is centered on building enhanced cooperation and connectivity with their network of suppliers and distributors in an effort to become more agile and reduce risk, especially in the face of a rapidly changing global trade environment.

Read the full article here.

Recent Harris Williams Sector Deal Activity





Senior Harris Williams bankers share their thoughts on what makes Rubicon's acquisition of Bamboo Rose a great investment, and why increasing supply chain complexity is fueling activity across the sector.

Link to Read





Harris Williams advises on Francisco Partners' investment in Veson Nautical, a global market leader in commercial maritime software and data.

Link to Read

Access All Harris Williams Insights Here



Select Recent Supply Chain & Logistics Technology Transactions

Altana Technologies has \$100M Series B raise



Target

Activate

Lead Investor

October 6, 2022

Amount Raised: \$100M Post-money Valuation: \$430M

- Altana is a provider of an artificial intelligence trade data management platform that delivers a real-time view into freight transactions, ownership, movements, and risk across the global trade network
- The investment comes on the heels of strong sales and data network growth for Altana, and will be used to fund aggressive platform and product development initiatives

Xeneta raises \$80 million led by Apax Digital

XFNFTA

Target

Lead Investor

September 13, 2022

Amount Raised: \$80M Post-money Valuation: \$265M

- Xeneta is a provider of ocean and air freight rate benchmarking and market analytics software serving shipping and air cargo stakeholders with historical and current market data
- Following the investment, Apax will help Xeneta accelerate investment in new product initiatives and continue scaling its global commercial teams to support expansion into new markets

Buyers Edge Platform announces acquisition of ArrowStream



Target



Buyer

August 3, 2022

Purchase Price Not Disclosed

- Arrowstream is a provider of supply chain management software that connects over 1,200 distributors, 10,000 suppliers, and 10,500 restaurants on a single platform
- Post acquisition, the combined companies will be able to better address the specific workflow requirements and key challenges of operators, multi-location brands, distributors, and manufacturers

LLR Partners completes growth capital investment in PCS Software



Target



Investor

September 21, 2022

Purchase Price Not Disclosed

- PCS is a provider of an Al-driven transportation management platform for mid to large-size enterprise shippers, carriers, and brokers in the U.S. and Canada
- Post transaction, LLR and existing partner CapStreet will support PCS's continued organic growth and product innovation plans as well as the pursuit of strategic acquisitions

Linnworks completes acquisition of SkuVault



LINNWORKS

Buyer

September 1, 2022

Purchase Price Not Disclosed

Target

- SkuVault is a provider of an e-commerce inventory management platform designed to reduce waste and supply chain inefficiencies. The platform helps small to medium-size enterprises automate warehouse processes
- Linnworks' acquisition of SkuVault will accelerate growth of omnichannel users and help customers fulfill orders more efficiently through integrated sales channels and warehouses

Korber acquires enVista's global freight audit and payment services businesses



Target

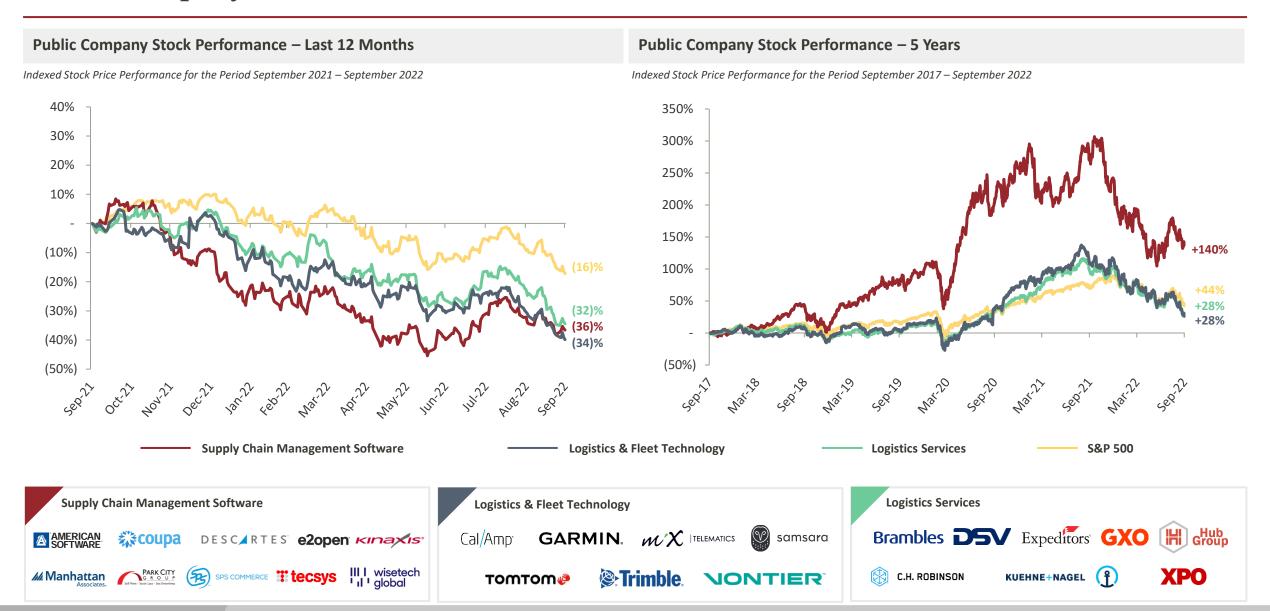
Buyer

Purchase Price Not Disclosed

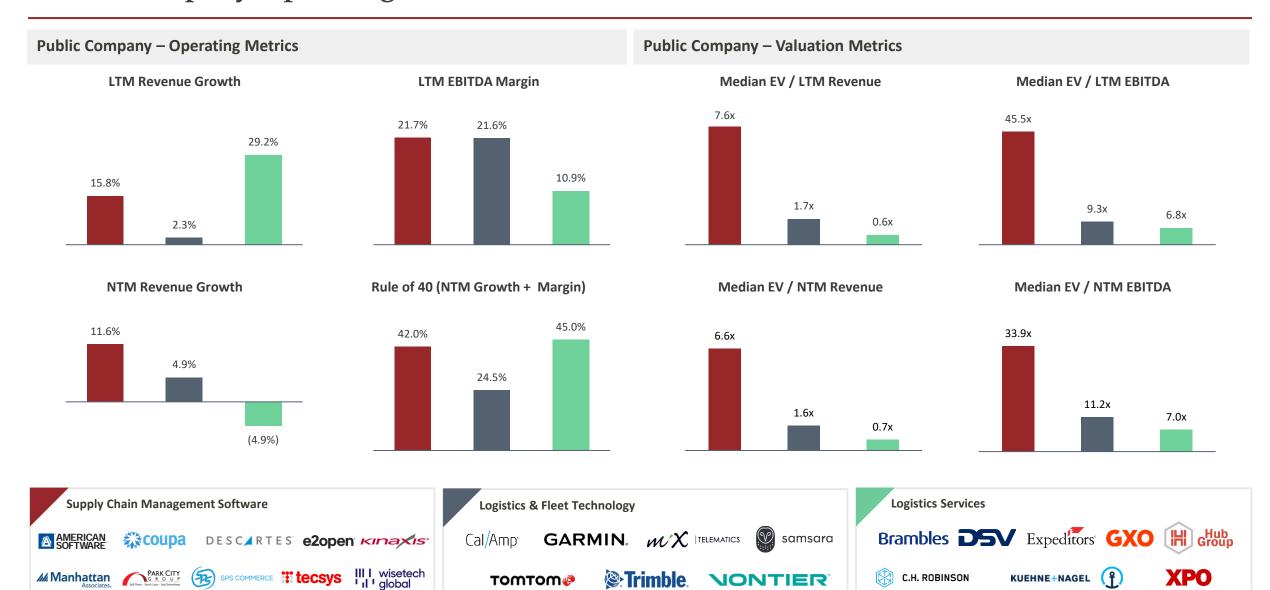
July 21, 2022

- enVista provides order management and freight audit and payment solutions to retailers and distributors globally
- The acquisition will enhance Korber's supply chain fulfillment capabilities, including last-mile logistics, freight audit, and order management.

Public Company Trended Stock Performance¹



Public Company Operating and Valuation Metrics¹



Supply Chain & Logistics Technology Sector Landscape Incumbents

To view full market map, please reach out to the contacts listed on page 10

End-to-End	Plan & Source	Coordi	Coordinate & Comply					
Diversified Platforms	Sales and Operations Planning Procurement Solutions EDI / B2B Connections				rade Management R C	isk Management, ompliance, and ESG		
****	Warehouse & Automate			Manag	ge & Fulfill			
-	Warehouse Management Systems	Warehouse Management Systems Warehouse Automation Barcodes / Scanning Yard Management						
				Tech-enabled eCommerce Fulfillment				
	Transport & Deliver	Audit & Pay		Optimize				
	TMS & Logistics Software	Digital Intermediaries	Fleet Mgmt / Telematics	Freight Audit Freight & Fuel Pay Visib		Visibility		
	→	Digital Load Boards			Supply Chain Finance / Factoring	Supply Chain Data		
		Freight Forwarding Solutions						

Supply Chain & Logistics Technology Sector Landscape Emerging Players

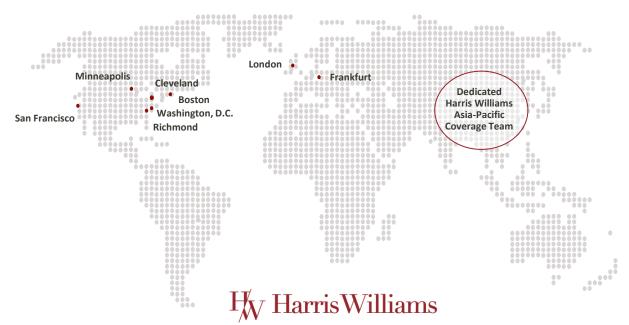
To view full market map, please reach out to the contacts listed on page 10

Plan & Source			Coordinate & Comply				
Sales and Operations Planning	Procurement Solutions	EDI / B2B Connectivity	Global Trade Customs Compliance Management	Risk Management, Compliance, and ESG			
	Procurement Audit						
Warehouse & Automate			Manage & Fulfill				
Warehouse Management Systems	Warehouse Automation	Yard Management	eCommerce Enablement / Inventory Management				
			Tech-enabled eCommerce Fulfillment				
Transport & Deliver		Audit	& Pay	Optimize			
TMS & Logistics Software	Digital Intermediaries Fleet Mgmt / Telematics	Freight	Audit Freight & Fuel Pay	Visibility			
	Digital Load Boards		Supply Chain Finance , Factoring	/			
	Freight Forwarding Solutions			Supply Chain Data			

To view full market map, please reach out to the contacts listed on page 10



Harris Williams: At a Glance













- 30 years and thousands of deals closed
- 100% of revenue is from M&A advisory
- 10 industry groups with deep sector expertise
- 92% of revenue from sell-side M&A
- 70% of revenue from repeat clients
- 8 offices across the U.S. and Europe

Technology Group

Sector Coverage Areas

Architecture, Engineering, and Construction • Compliance • eCommerce & Retail • Education

Government & Public Sector • Healthcare • Human Capital Management • Industrial

Legal • Office of the CFO • Pharma • Real Estate & Property | • Supply Chain & Logistics

Transportation & Logistics Group

Sector Coverage Areas

Airport & Aviation Services • Automotive & Heavy-Duty Vehicles **E-Commerce Services**

Marine Transportation • Niche Transportation • Rail & Intermodal • Third-Party Logistics

Transportation Management

Transportation Equipment

Harris Williams Contacts

Andy Leed

Technology Group Managing Director aleed@harriswilliams.com (415) 217-3420

Mat Tsui

Technology Group Director mtsui@harriswilliams.com +44 20 7518 8926

Erik Szyndlar

Technology Group Managing Director eszyndlar@harriswilliams.com (415) 217-3418

Gunnar Shaw

Technology Group Vice President gshaw@harriswilliams.com (415) 217-3441

Jason Bass

Co-Head of T&L Group Managing Director jbass@harriswilliams.com (804) 915-0132

Frank Mountcastle

Co-Head of T&L Group Managing Director fmountcastle@harriswilliams.com (804) 915-0124

Harris Williams' Supply Chain & Logistics Technology Experience

Select Supply Chain & Logistics Technology Experience



has been acquired by





has received a strategic investment from









TRANSFLO®

has received a significant

investment from



has been acquired by





has been acquired by



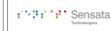


has been acquired by





has been acquired by















has been acquired by



GLOBALTRANZ

has been

acquired by

PROVIDENCE EOUITY

apexanalytix.

has recapitalized with funds controlled by



TransportationInsigh

has been

acquired by



has been acquired by





has been acquired by





has been acquired by







has received a growth investment from



has been

acquired by

GLOBALTRANZ



VESON

NAUTICAL







Harris Williams Client Engagement



a portfolio company of



has received a strategic investment from



June 2022

Company Background

Bamboo Rose provides a product and supply chain platform that connects the entire retail ecosystem through a comprehensive set of SaaS solutions.

Successful Outcome

The transaction delivered a successful outcome for Bamboo Rose and McCarthy Capital. The investment from Rubicon enables management and existing shareholders to partner with a seasoned supply chain investor that will further support Bamboo Rose's growth initiatives.

Harris Williams Role

Harris Williams served as the exclusive financial advisor to Bamboo Rose, a portfolio company of McCarthy Capital, in this transaction.

Relevant Subsectors

Procurement Solutions

Global Trade Management Supply Chain Visibility

Harris Williams Deal Contacts

Andy Leed

Managing Director aleed@harriswilliams.com (415) 217-3420

Erik Szyndlar

Managing Director eszyndlar@harriswilliams.com (415) 217-3418

Ryan Costa

Director rcosta@harriswilliams.com (617) 455-7304



Harris Williams Capabilities and Locations



Harris Williams has a broad range of industry expertise, which creates powerful opportunities. Our clients benefit from our deep-sector experience, integrated industry intelligence and collaboration across the firm, and our commitment to learning what makes them unique. For more information, visit our website at www.harriswilliams.com.



Aerospace, Defense & Government Services



Business Services



Building Products & Materials



Consumer



Energy, Power & Infrastructure



Healthcare & Life Sciences



Industrials



Specialty Distribution



Technology



Transportation & Logistics

Office Locations

United States

Boston

One International Place Suite 2620 Boston, Massachusetts 02110 Phone: +1 (617) 482-7501

Cleveland

1900 East 9th Street 25th Floor Cleveland, Ohio 44114 Phone: +1 (216) 689-2400

Minneapolis

222 South 9th Street **Suite 3350** Minneapolis, Minnesota 55402 Phone: +1 (612) 359-2700

Richmond

1001 Haxall Point 9th Floor Richmond, Virginia 23219 Phone: +1 (804) 648-0072

San Francisco

One Market Plaza, Steuart Tower 11th Floor San Francisco, California 94105 Phone: +1 (415) 288-4260

Washington, D.C.

800 17th St. NW 2nd Floor Washington, D.C. 20006 Phone: +1 (202) 207-2300

Europe

Frankfurt

Bockenheimer Landstrasse 33-35 60325 Frankfurt Germany Phone: +49 069 3650638 00

London

25 Savile Row 4th Floor London, England W1S 2ER Phone: : +44 20 7518 8900

Sources and Disclosures

Sources

- S&P Capital IQ
- Pitchbook

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Appendix



Public Market Operational and Valuation Metrics¹

\$ in Thousands	Market	Enterprise	% of 52-Week	LTM	NTM	LTM	LTM		Enterpris	e Value/	
Company	Capitalization	Value	High	Rev Growth	Rev Growth	Gross Margin	EBITDA Margin	LTM Revenue	NTM Revenue	LTM EBITDA	NTM EBITDA
			:	Supply Chain Man	agement Softwar	e					
WiseTech Global Limited	\$10,865,786	\$10,555,190	82.1%	14.5%	14.9%	85.4%	43.9%	24.2x	21.1x	55.2x	40.6x
Manhattan Associates, Inc.	8,300,652	8,127,188	70.6%	15.8%	3.0%	52.8%	19.2%	11.0x	10.7x	57.2x	40.7x
The Descartes Systems Group Inc.	5,416,855	5,236,523	76.1%	19.9%	11.5%	76.3%	41.5%	11.4x	10.2x	27.4x	23.3x
Coupa Software Incorporated	4,464,700	5,873,513	22.6%	22.4%	15.7%	59.5%	NM	7.5x	6.5x	NM	49.9x
SPS Commerce, Inc.	4,477,462	4,258,614	71.2%	18.0%	11.7%	65.9%	21.7%	9.9x	8.8x	45.5x	30.5x
Kinaxis Inc.	2,781,631	2,606,193	59.6%	42.1%	13.4%	64.8%	8.5%	7.7x	6.8x	90.7x	43.3x
E2Open	1,834,685	3,077,907	45.6%	NA	14.9%	65.9%	26.4%	5.1x	4.4x	19.3x	13.6x
American Software, Inc.	516,233	402,238	46.1%	14.3%	5.2%	59.9%	11.6%	3.1x	3.0x	26.9x	22.1x
Tecsys Inc.	310,489	292,031	47.9%	4.8%	3.4%	42.0%	4.4%	2.7x	2.6x	61.1x	37.2x
Park City Group, Inc.	98,810	80,324	50.1%	(14.1%)	8.0%	82.3%	29.0%	4.5x	4.1x	15.3x	11.4x
Median	\$3,623,165	\$3,668,260	54.9%	15.8%	11.6%	65.4%	21.7%	7.6x	6.6x	45.5x	33.9x
				Logistics & Fle	et Technology						
Garmin Ltd.	\$15,392,530	\$14,031,668	48.4%	0.1%	1.6%	57.3%	25.1%	2.8x	2.8x	11.3x	11.2x
Trimble Inc.	13,384,322	14,767,722	59.0%	5.1%	4.9%	58.7%	20.3%	3.9x	3.8x	19.4x	14.6x
Samsara Inc.	6,208,709	5,516,173	38.4%	114.4%	28.8%	71.2%	NM	10.3x	8.0x	NM	NM
Vontier Corporation	2,640,070	5,142,570	48.2%	2.9%	1.6%	45.2%	23.0%	1.7x	1.6x	7.2x	6.5x
TomTom N.V.	925,312	628,778	78.7%	(16.2%)	7.6%	82.5%	NM	1.3x	1.2x	NM	NM
MiX Telematics Limited	163,660	159,342	59.9%	2.3%	(4.3%)	62.7%	18.1%	1.1x	1.2x	6.2x	5.4x
CalAmp Corp.	142,322	339,076	36.0%	(13.9%)	11.6%	40.3%	NM	1.2x	1.1x	NM	12.9x
Median	\$2,640,070	\$5,142,570	48.4%	2.3%	4.9%	58.7%	21.6%	1.7x	1.6x	9.3x	11.2x
				Logistics	Services						
DSV A/S	\$25,991,518	\$29,576,071	56.0%	36.1%	(11.2%)	21.2%	11.0%	0.9x	1.0x	8.3x	9.0x
Kuehne + Nagel International AG	24,757,065	23,632,187	63.7%	44.3%	(16.9%)	28.0%	10.8%	0.6x	0.7x	5.2x	6.1x
Expeditors International of Washington, Inc.	14,053,334	12,406,431	64.1%	34.9%	(14.9%)	13.1%	11.4%	0.7x	0.8x	5.7x	7.4x
C.H. Robinson Worldwide, Inc.	11,336,599	13,711,774	79.4%	23.6%	(5.6%)	7.5%	5.6%	0.5x	0.6x	9.4x	9.9x
Brambles Limited	10,203,115	12,920,415	86.9%	16.1%	1.9%	33.6%	29.2%	2.2x	2.2x	7.6x	6.6x
XPO Logistics, Inc.	5,127,037	8,307,037	50.6%	5.9%	(4.2%)	20.0%	10.7%	0.6x	0.7x	5.9x	5.8x
GXO Logistics, Inc.	4,159,133	7,836,133	33.1%	18.1%	8.8%	16.7%	7.2%	0.9x	0.8x	12.3x	10.1x
Hub Group, Inc.	2,292,163	2,509,328	77.0%	35.2%	11.3%	16.9%	12.0%	0.5x	0.4x	4.0x	4.4x
Median	\$10,769,857	\$12,663,423	63.9%	29.2%	-4.9%	18.5%	10.9%	0.6x	0.7x	6.8x	7.0x



Select Recent M&A Activity and Capital Raises

Date	Target	Buyer / Lead	Subsector	Deal Size (\$M)	Description
10/6/2022	♠ Altana	Activate capital	Visibility	430 (Post Money)	Provider of an artificial intelligence trade data management platform that delivers a real-time view of transactions, ownership, movements, and risk across the global trade network
10/3/2022	Food LogiQ	esha	Supply Chain Compliance	Undisclosed	Provider of a SaaS-based supply chain platform designed to validate supplier compliance with food safety
9/21/2022	OPCS	LLR Partners	Transportation Management	Undisclosed	Provider of an Al-driven transportation management platform for mid-to-large sized enterprise shippers, carriers, and brokers in the U.S. and Canada
9/14/2022	Fleet	MAIN CAPITAL PARTNERS	Fleet Management	Undisclosed	Provider of telematics services that provide fleet tracking, tachograph analysis, trailer telematics, and equipment tracking
9/13/2022	NYSHEX	© Collate Capital	Freight Forwarding	167 (Post Money)	Provider of a digital contracting platform designed to offer freight forwarding contracts for global container shipping
9/13/2022	/ruckSmarter	> THRIVE CAPITAL	TMS & Logistics	150 (Post Money)	Provider of a load board platform designed for truck drivers, offering customers higher paying loads at no monthly cost
9/12/2022	MYCARRIER	NewRoad CAPITAL PARTNERS	TMS & Logistics	22 (Amt. Raised)	Provider of a freight shipping platform designed to provide shippers direct connectivity with carriers through live quotes, integrated cargo insurance, and digital document sharing
9/12/2022	XENETA	Apax digital	Freight Data	265 (Post Money)	Provider of freight management software designed to compare container shipping rates
9/11/2022	⊃ denim	PELION VENTURE PARTNERS	Freight Payments	126 (Amt. Raised)	Provider of financial software that integrates freight payments, collections, and financing processes
9/1/2022	SKUVAULT	LINNWORKS.	Inventory Management	79	Provider of an e-commerce inventory management platform designed to reduce waste and supply chain inefficiencies
8/27/2022	FOUR KITES	₩ MITSUI&CO.	Visibility	10 (Amt. Raised)	Provider of a supply chain platform intended to track the shipment location and proactively manage shipping timing to and details
8/15/2022	™ MPO	κına χ ıs¹	TMS & Logistics	45	Provider of a cloud-based customer chain control platform intended to empower brands and logistics service providers
8/3/2022	ArrowStream	BUYERS	Supply Chain Management	Undisclosed	Provider of supply chain management software that offers actionable intelligence for the food service industry
7/31/2022	rootstock~	roofstock	Inventory Management	Undisclosed	Provider of cloud-based ERP software serving manufacturers, distributors, and other organizations
7/28/2022	ORDERWISE"	⊕ FORTERRO	Inventory Management	Undisclosed	Provider of tools for a fully integrated ERP software system to help increase efficiency and productivity of business operations
7/21/2022	envista*	KÖRBER	Logistics Software / Freight Audit	Undisclosed	Provider of order management and freight audit and payment solutions to retailers and distributors globally
7/20/2022	gcommerce	(B)	TMS & Logistics	45	Provider of a cloud-based data exchange platform intended to automate processes and increase sales in the durable goods distribution industry
7/20/2022	& supplypike	FRONTIER / GROWTH	Sales & Operations Planning	25 (Amt. Raised)	Provider of a cloud-based platform generating retail analytics and sales forecasts for suppliers