# Ascentage

Market Update

Technology for the Built Environment

September 2023









#### **Built Environment Overview**

#### Companies Featured and Solutions Explored



**Featured Companies** 































#### Inclusion Criteria

Ascentage Advisors is a leading corporate development and M&A advisory firm addressing the strategic and tactical business needs of growth-stage technology companies serving the built environment. With a 20+ year track record and international coverage, Ascentage's domain expertise spans across design, construction, infrastructure, asset and energy management.

Ascentage's comprehensive knowledge of the market is built on consistent strategic dialogue with boards and executives at both emerging players and established incumbents, as well as regular ideation with global investors with a vested interest in the market.

For 2023, our annual update provides a broad overview of this vibrant ecosystem. In addition, we've chosen to spotlight three key areas with exceptional growth and investor interest:

- Preconstruction
- Infrastructure
- Construction Automation

#### Referenced Solutions

Building Information Modeling (BIM)

Mobile field

service

supervision and

management

Geospatial Information Systems (GIS)

budgeting

- Project management/ collaboration
- Sustainable/new materials. including 3D printing
- Project planning, Pre-fabrication. estimating, modular and offsite scheduling bidding and construction
- Reality capture: IoT, lidar, and photogrammetry
- Facility, energy and infrastructure asset management

ERP, supply chain

and payments

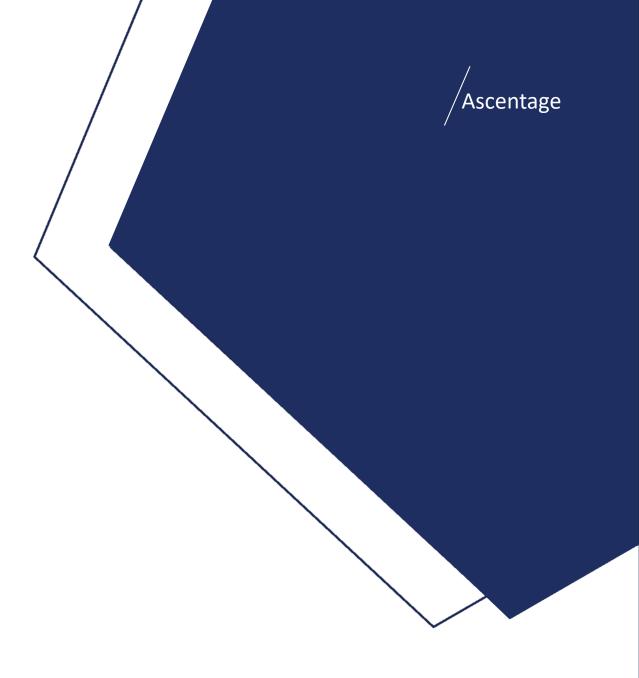
#### Ascentage Advisors, LLC

Jeff Herriman **Managing Director** Email | LinkedIn

R. Drew Ogden **Managing Director** Email | LinkedIn

Jay Snyder Director Email | LinkedIn

**Industry Trends** 



#### **Construct Tech**

#### A<sup>3</sup> Continuing Digital Transformation of the Built Environment





Artificial Intelligence solutions including machine learning and computer vision, bring predictive insights and alternatives generation to expert-centric processes, promising improvements in cost, quality and safety

These technologies are being applied across the spectrum of the built environment, including:

- Generative design
- Advanced scheduling and progress tracking
- Construction safety management
- Predictive asset maintenance



Automation in the form of robotics and industrialized construction solutions

Robotics, drones and autonomous heavy equipment promise increased productivity, enhanced safety and reduced costs.

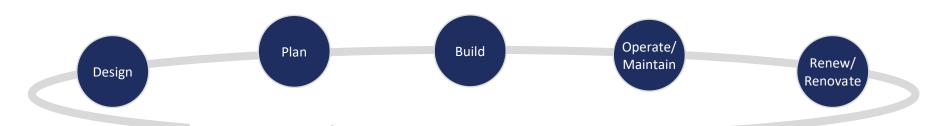
Off-site production, pre-fabrication and modular building technologies reduce costs, increase quality and speed construction

These technologies drive ever greater benefits in an industry plagued by skilled labor shortages.



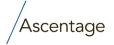
Asset Management solutions which improve the operational performance of new and existing built assets, leveraging a combination of digital twin technologies, IoT sensors and advanced software:

- Building and facilities management
- Occupant experience solutions
- Energy management, carbon reduction and ESG reporting
- Horizontal infrastructure solutions for transportation, utilities and oil & gas



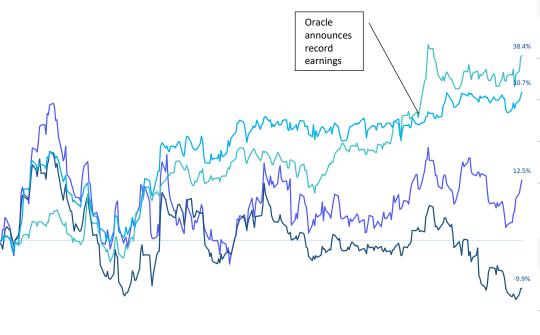
### **Valuation Environment**

#### Improving Public Market Valuations Bode Well



#### Public Company Forward Revenue Valuation Trending

EV / NTM Revenue Multiple Valuation Benchmark (July 1, 2022 – August 31, 2023)



Index Group	Multiple Growth	Avg. EV / CY23E Rev.	CY23E Rev. Growth		
Design/ Construction	12.5%	10.1x	14.4%		
GIS/ Hardware	-9.9%	2.8x	3.3%		
Industrial Technology	30.7%	5.8x	8.8%		
ERP/ Horizontal	38.4%	5.2x	7.8%		

Group		Comp	oanies	
Design / Construction	▲ AUTODESK	Bentley	NEMETSCHEK GROUP	PROCORE
GIS/ Hardware	FARO	HEXAGON	#TOPCON	<b>Example</b> Trimble.
Industrial Technology	Ø FOR	TIVE ROP	Schne	ider
ERP/ Horizontal	IB	ORA	ACLE Sa	ge

Source: Capital IQ

# Strategic Activity – Select Transactions (1 of 2)



Serial Acquirers Continue to Invest in Built Environment Solutions ...

Acquirer	Target	Date	Target Description	Comments and Observations
✓ AUTODESK	UNIFI	Mar 23	BIM content lifecycle solutions	<ul> <li>Solution for organizing, accessing and managing content in Revit, Civil 3D, Plant 3D and other design tools</li> </ul>
<b>Bentley</b> ®	buyncsy	Aug 23	<ul> <li>Al computer vision solution for assessing road conditions</li> </ul>	To be integrated with infrastructure asset solutions
	EasyPower®	Feb 23	Design and analysis tools for electrical engineering	<ul> <li>Follows 2022 acquisition of Power Line Systems and integrates with power distribution and other infrastructure engineering solutions</li> </ul>
	MINERVA INTELLIGENCE	Dec 22	Geology division of AI climate risk platform	<ul> <li>Mining solution to be integrated with Seequent – acquired in 2021</li> </ul>
	eagle.io	July 22	<ul> <li>IoT solution for environmental monitoring</li> </ul>	<ul> <li>Complements earlier IoT acquisitions of Sensemetrics and Vista Data Vision</li> </ul>
FARO	<b>SiteScape</b>	Dec 22	<ul> <li>iOS powered LiDAR 3D scanning solution</li> </ul>	<ul> <li>Reality capture targeted toward AEC and O&amp;M markets</li> </ul>
	S L A M	Sept 22	<ul> <li>Mobile simultaneous localization and mapping (SLAM) software solution</li> </ul>	<ul> <li>\$45M acquisition complements existing photo and laser data capture solutions</li> </ul>
HEXAGON	HARD-LINE	July 23	<ul> <li>Mine safety, automation and underground management solution</li> </ul>	Enhances mining-specific technology stack
	<b>Project</b> mates	Jan 23	Construction program management	<ul> <li>Owner-focused solution complements HxGN SmartBuild, used primarily by GCs</li> </ul>
	LocLab THE DIGITAL TWIN COMPANY	Oct 22	3D digital twin content creation consulting firm	<ul> <li>Fits with existing reality capture and design software solutions</li> </ul>
	<b>⊜</b> ∧∨∨IR°	Oct 22	Al computer vision solution for construction	<ul> <li>Fits with BricsCAD and other BIM tools, as well as OxBlue camera solution acquired in 2021</li> </ul>
4	<b>i</b> Construct	Sept 22	<ul><li>BIM software solution</li></ul>	<ul> <li>Continuation of Digital Twin strategies</li> </ul>

# Strategic Activity – Select Transactions (2 of 2)



### ... Leading to Record-Breaking Year in Terms of Number of Acquisitions

Acquirer	Target	Date	Target Description	Comments and Observations
ORACLE'	NEWMETRIX	Dec 22	<ul> <li>Al/computer vision solution for construct</li> </ul>	<ul> <li>Brings AI team and capabilities to Oracle construction</li> </ul>
sage	Corecon	May 23	<ul> <li>Construction management solution</li> </ul>	<ul> <li>Forward integration by construction ERP market leader into operational software</li> </ul>
	Spherics	Oct 22	<ul> <li>Carbon accounting software</li> </ul>	<ul> <li>Targeted toward efforts of SMBs to measure and reduce carbon footprint</li> </ul>
Schneider Electric	ecoact	July 23	<ul> <li>International consulting and project development firm focused on sustainability</li> </ul>	<ul> <li>Acquisition from Atos consulting – integrated with Schneider's sustainability consulting division</li> </ul>
	AVEVA	Jan 23	<ul> <li>Industrial software solutions</li> </ul>	Completion of all shares in formerly UK-listed firm
	<b>APLINES</b>	Sept 22	<ul> <li>Vegetation management solution for electrical utilities</li> </ul>	<ul> <li>Acquisition and integration of startup funded by SE Ventures</li> </ul>
<b>#</b> TOPCON	SATEL	July 23	<ul> <li>Wireless technology solutions</li> </ul>	<ul> <li>Integration with high-accuracy positioning systems for industrial and energy applications</li> </ul>
	DIGITAL CONSTRUCTION WORKS	Mar 23	<ul> <li>Data and systems integration solutions for construction</li> </ul>	<ul> <li>Acquisition of Bentley's share in former JV</li> </ul>
<b>Trimble</b>	TRANSPOREON	Apr 23	<ul> <li>Transportation/supply chain management solution</li> </ul>	<ul> <li>\$2.0B acquisition represents new line of business for Trimble</li> </ul>
	Ryvit	Jan 23	<ul> <li>Software integration platform for AEC industry</li> </ul>	<ul> <li>Provides Trimble Construction One customers with access to integration, data mapping and automation options</li> </ul>
		Sept 22	<ul> <li>Estimating and operational solution for heavy civil construction</li> </ul>	<ul> <li>Expands Trimble portfolio in civil/infrastructure vertical</li> </ul>

### Select Construct Tech M&A Transactions



#### Private Equity Firms Play Increased Role in Ecosystem

Investor	Acquirer	Target	Date		Target Description		Comments and Observations
	Eagle Point Software	<b>CAD</b> Learning	July 23	٠	E-learning solution for AEC sector	•	Consolidation of e-learning platform focused on architects, engineers and contractors (i)
	HILTTI	4 PS	July 23	•	Construction ERP solution	•	To be integrated with OnTrack tool management and Fieldwire field management (later acquired in 2021)
<b>⋈ Next47</b>	BUILD⊌OPS	perfect ware	July 23	•	Facility management solution for HVAC and electrical contractors	•	Bolt-on acquisition follows \$93M fundraising led by Fika and Next 47 (Siemens) in May 2023
STIRLING SQUARE		<b>b</b> infobric	June 23	•	Construction asset and workforce management solutions	•	Follows LBO by Summa Equity in 2019
THOMABRAVO	<u> </u>	s ■■AboutTime	May 23	•	Construction time and attendance solution	•	Acquisition of long-standing player by construction ERP solution
<b>ethos</b> capita	L	NEWFORMA.	Apr 23	•	Project information management solution	•	Acquisition by Ethos from Battery Ventures, which acquired Newforma in 2017
	ASSA ABLOY	CrewSight	Feb 23	•	Jobsite access control and construction workforce management	•	Acquisition follows 2020 acquisition of Biosite; note that CrewSight acquired from Trimble
CONSTELLATION SOFTWARE INC.	VOLARIS	WennSoft	Feb 23	•	Field/service operations solution (fka Key2Act)	•	Acquisitions by buy and hold software conglomerate from LLR private equity
North Edge.	<b>О</b> СМар	<b>Atvero</b>	Feb 23	•	Design and construction document management solution	•	Integrated with Cmap project management solution
TIGERGLOBAL	BUILT	ROIN	Jan 23	•	Robotic concrete solutions	•	Product line extension by leading autonomous construction equipment firm
THOMABRAVO		nearmap 🤻	Dec 22	•	Geospatial mapping solutions	•	\$700M public to private LBO of Australian market leader
жHg	access	Coins	Dec 22	•	Construction project management platform	•	Combination of project management and horizontal ERP solution

# **Select Construct Tech Investor Activity**



#### Strong Re-ignition of Venture Activity Beginning in Late Spring 2023

Lead Investor	Target	Date		Target Description	Deal Type	Amount Raised <sup>(i)</sup>	Pre-Money Valuation <sup>(i)</sup>	Amount Raised To- Date <sup>(i)</sup>
EGIS CAPITAL PARTNERS	SENSERA	Aug 23	•	Construction reality capture solution	Series A	n/a	n/a	n/a
CIBC	• Bridgit	July 23	•	Construction workforce management solution	Later Stage	\$7.0	n/a	\$43.3
BlueEarth	CARBON CURE	July 23	•	Green concrete solution – reduces carbon content	Series F	\$80.0	n/a	\$91.2
innovation	trunk.	July 23	•	Construction workforce management solution	Seed	\$9.9	\$15.0	\$9.9
metaprop	S SKILLIT	July 23	•	Construction staffing solution	Seed	\$8.5	\$10.0	\$8.5
BRICK & MORTAR	HYPAR	June 23	•	Generative design platform solution	Series A	\$5.5	\$10.0	\$8.3
<b>Ø</b> GS VENTURE	CLEARSTORY	June 23	•	Construction change order solution (fka ExTracker)	Series A	\$5.5	\$28.0	\$14.3
Bessemer Venture Partners	CURRI	June 23	•	Construction logistics platform solution	Series B	\$42.0	\$120.0	\$50.8
BUILDING VENTURES for a Better Built World	<b>Q</b> UpCodes	May 23	•	Platform solution to manage compliance to government building codes	Series A	\$3.5	\$30.0	\$7.6
energy impact partners	measurabl	May 23	•	Sustainability data management platform for real estate	Series D	\$93.0	\$340.0	\$193.6
groundbreak		May 23	•	Construction logistics software solution	Seed	\$2.0	\$4.0	\$2.1
systemiq capital	<b>Q</b> flow	May 23	•	Sustainability tracking solution for construction supply chain	Series A	\$7.9	n/a	\$11.6
10XCAPITAL	<b>Onsite</b>	Apr 23	•	Al reality capture construction management solution	Series B	\$10.0	\$52.5	\$23.9

# Spotlight – Preconstruction (1 of 2)

Increasing Number of PE-, Venture- and Founder-Backed Firms Targeting Long-Standing Strategics



	Bid Management/ Prequalification  Soliciting, receiving and aggregating estimates for scopes of work, and qualifying subcontractors	Estimating/ Quantity Takeoff  Assessing the scope of labor, materials, equipment, schedule duration and overall costs	Scheduling/ Modeling and Simulation  Analyzing and coordinating project activities
Publicly Listed Incumbents  Desktop or client-server solutions, and/or prior acquisitions by major player		CDOLID	Bentley Microsoft  PRIMAVERA
PE-Backed Insurgents  Mixed technologies	BainCapital  () BUILDERTREND  COCONSTRUCT	THOMABRAVO  CSS FOUNDATION  estimating software  EDGE E  LEVEL EQUITY  STACK	Mainsail Partners
Contractor-Backed	INEIGHT ®	<b>BEC</b> TECH	
Emergent/Growth Technologies Privately held SaaS solutions, often leveraging Al	pipelineSuite  STRATE  RhinoDox  TRUE	KREO	Join ALICE Outbuild Planera SWAPP Touchplan

# Spotlight – Preconstruction (2 of 2)

# Ascentage

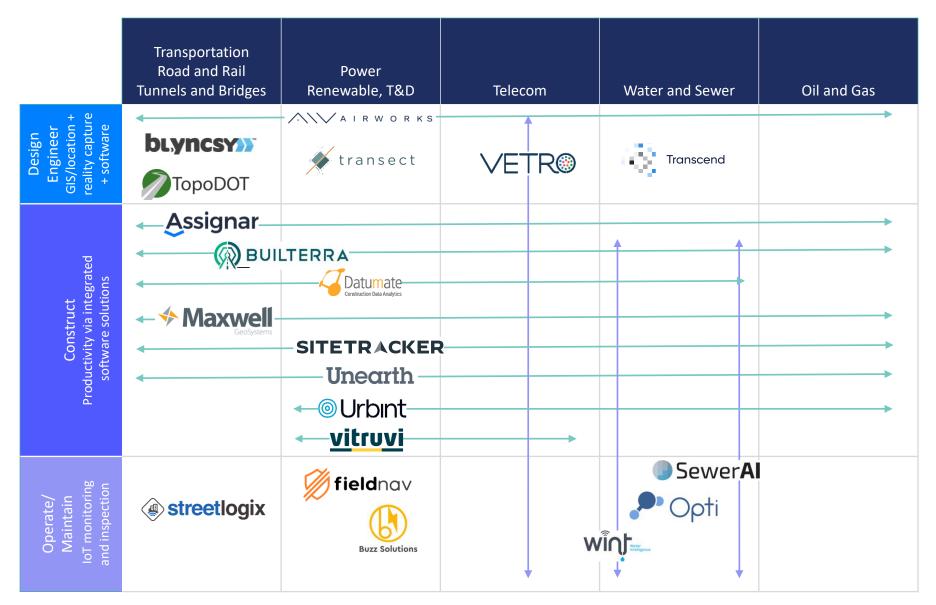
### Strong Investment and M&A Activity in Preconstruction Solutions

Lead Investor	Target	Date		Ta	arget Desc	riptio	n	Deal Type	Amount Ra	ised <sup>(i)</sup>	Pre-Money Valuation <sup>(i)</sup>	Amount Raised To- Date <sup>(i)</sup>
	TRUEBUILT	<b>M</b> ay 23	٠	Construction b	id manage	ment	solution	Seed	\$4.0		\$10.0	\$4.0
EURAZEO	SWAPP	May 23		Al construction	n planning/	sche	duling solution	Series A	\$11.5		n/a	\$21.3
* SORENSON	olanero planero	May 23		Construction p	lanning/sc	hedu	ling solution	Seed	\$5.3		\$14.0	\$5.3
VANEDGE	ALICE TECHNOLOGIES	Apr 23		Al construction	n planning/	sche	duling solution	Series B	\$47.0		\$81.2	\$69.0
Florida Funders	[II] TOGAL.AI	Mar 23		Al preconstruc	tion soluti	on		Early Stage	\$5.0		\$45.0	\$5.4
<b>«SignalFire</b>	Join	June 22		Pre-construction	on collaboi	ation	solution	Series A	\$16.0		\$64.0	\$28.2
INSIGHT PARTNERS	Outbuild	June 22	•	Construction p	-		ling solution	Seed	\$2.2		\$10.0	\$3.8
Avenir	டு cosuno	Feb 22	•	Construction b	id manage	ment	solution	Series B	\$30.0		\$120.0	\$45.2
Investor	Acquirer		Ta	arget	Date		Target [	Description		С	omments and	Observations
	BYGGFA GROUP	KTA	V Pantera	Global Technology	Apr 23	٠	Construction bid m	nanagement solution	on •			an construction info of US entry strategy
	<b>% Trim</b> k	ole.		20	Sept 22	•	Estimating and open heavy civil constru		or •		ds Trimble porti nfrastructure ve	
	✓ AUTODE	SK	Pr	<b>ůE</b> st	Dec 21	•	Construction estim	nating and digital ta	akeoff •		f Autodesk Cons n/construction in	struction Cloud ntegration strategy
THOMABRAV	0 <b>^FOUNDA</b> 1	TION s		GE E	Dec 21	•	Estimating softwar and subcontractor	-	ractors •			oll-up strategy – see me in March 2023

## Spotlight – Infrastructure (1 of 2)

Emerging Landscape of Horizontal, Vertical and Point Solutions to Address Growing Global Opportunities





# Spotlight – Infrastructure (2 of 2)



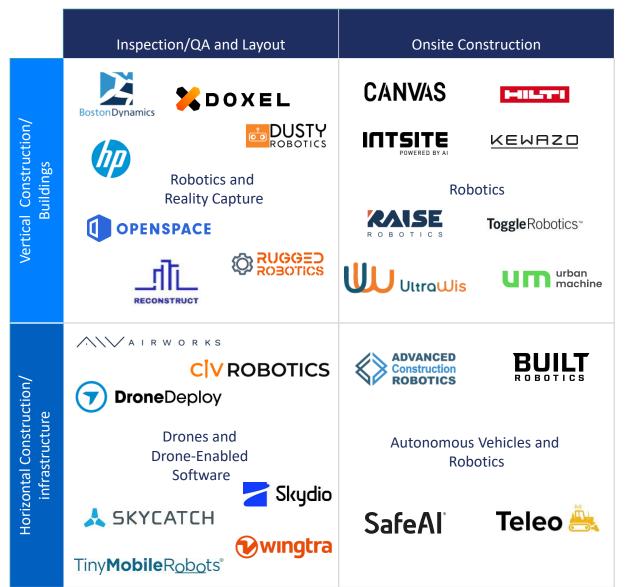
### Strong Interest from Strategic and Financial Investors in Infrastructure Solutions

Lead Investor	Target	Date		Target Description	Deal Type	Amount Raised <sup>(i)</sup>	Pre-Money Valuation <sup>(i)</sup>	Amount Raised To- Date <sup>(i)</sup>
✓ AUTODESK	Transcend	Aug 23	•	Generative design solution for infrastructure	Series B	\$20.0	n/a	\$33.2
INSIGHT PARTNERS	WÎN	Aug 23	•	Al water management solution	Series C	\$35.0	n/a	\$50.0
B WRIVER	<u>vitruvi</u>	July 23	•	Project management solution for infrastructure (aka Fresnel Software)	LBO/Recap	n/a	n/a	n/a
TRESOLVE	∨ETR⊚	Mar 23	•	Planning, operations and network management solution for fiber operators	Series B	\$7.0	n/a	\$22.8
GoPoint Ventures	Buzz Solutions	Dec 22	•	Al power transmission and distribution line solution	Seed	\$3.3	\$18	\$5.8
Oaliaxis	Opti	Oct 22	•	Stormwater management solution – acquired by German plumbing components conglomerate	M&A	n/a	n/a	n/a
=NERGIZF	SITETRACKER	Sept 22	•	Construction project and asset management solution for infrastructure	Series D	\$96.5	\$320.0	\$207.5
groundbreak	A I R W O R KS	July 22	•	Data extraction and mapping of aerial data	Series A	\$6.0	n/a	\$11.1
PINE BROOK	transect	Mar 22	•	Environmental due diligence solution	Series A	\$7.6	\$25.0	\$13.1
emerald 🚱	<b>SewerA</b> l	Mar 22	•	Al inspection and analysis of sewer systems	Series A	\$6.0	\$20.0	\$9.5
Bentley	Unearth	Oct 21	•	Location-based construction field management solution	Late Stage	n/a	n/a	\$14.5
ENERGIZF	<pre>@Urbint</pre>	Aug 21	•	Al risk management solution for utilities	Series C	\$60.0	\$180.0	\$105.0
FIFTH WALL	<u>A</u> ssignar	May 21	•	Construction management solution focus on civil	Series B	\$20.0	\$90.0	\$30.7

## Spotlight – Construction Automation (1 of 3)

Construction Automation Solutions Taking Numerous Forms from Robotics to Drones to Autonomous Vehicles to Offsite/Modular







# Spotlight – Construction Automation (2 of 3)

Significant Funding at All Levels Continues to Flow Into Construction Robotics, Drones and Autonomous Construction Equipment Plays



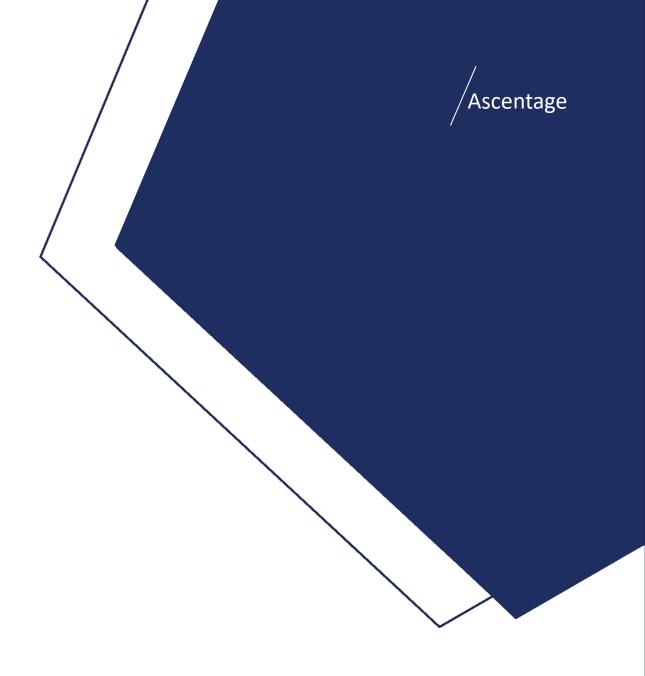
Lead Investor	Target	Date		Target Description	Deal Type	Amount Raised <sup>(i)</sup>	Pre-Money Valuation <sup>(i)</sup>	Amount Raised To- Date <sup>(i)</sup>
emerald <b>⑤</b>	Tiny <b>Mobile</b> R <u>obo</u> ts°	July 23	•	Infrastructure layout robotic solution	Late Stage	\$7.4	n/a	\$10.4
Energy Innovation Capital	SafeAl®	May 23	•	Autonomy solutions for construction equipment	Series B	\$68.0	n/a	\$134.0
DiamondStream	wingtra	Mar 23	•	VTL drone solution	Series B	\$21.9	\$128.7	\$51.9
Tribeca VENTURE PARTNERS	<b>Toggle</b> Robotics <sup>™</sup>	Feb 23	•	Robotics and automation solutions for rebar	Series A	\$27.7	n/a	\$14.7
Xacua Ventures	RAISE	Jan 23	•	Construction robotics startup	Seed	\$2.2	n/a	\$2.2
FIFTH WALL	KEWAZO	Jan 23		Robotic hoists for scaffolding	Series A	\$10.0	n/a	\$19.0
LOWERCARBON CAPITAL	<b>Um</b> urban machine	Dec 22	•	Robotic demolition solution	Seed	\$5.6	n/a	\$7.2
<b>UP</b> .PARTNERS	Teleo 🌦	June 22	•	Autonomy solutions for construction equipment	Series A	\$12.0	\$32.0	\$12.2
TRIPLE POINT VENTURE GROWTH	CANVAS	Aug 22		Construction robotics for drywall	Debt	\$6.5	n/a	\$23.7
SCALE	DUSTY ROBOTICS	May 22	•	Robotics solution for interior layouts	Series B	\$45.5	\$204.5	\$69.2
TIGERGLOBA	L BUILT	Apr 22	•	Autonomy solutions for construction equipment	Series C	\$64.0	\$300.0	\$112.0
BRICK & MORTAR	RUGGED	Mar 22	•	Robotics solution for interior layouts	Series A	\$9.4	\$32.1	\$11.9

# Spotlight – Construction Automation (3 of 3)

Investments in Modular Solutions from Diverse Investors at Significantly Higher Valuation Levels



Lead Investor	Target	Date		Target Description	Deal Type	Amount Raised <sup>(i)</sup>	Pre-Money Valuation <sup>(i)</sup>	Amount Raised To- Date <sup>(i)</sup>
AHF AIDS HEALTHCARE FOUNDATION	CRATE	July 23	•	Multi-family solution – acquired by non-profit foundation	M&A	n/a	Valuation**	Date₩
<b>(f)</b> Persimmon	I TopHat	Apr 23	•	Modular residential solution	Late Stage	\$95.8		\$231.0
RIVAL	BotBuilt	Mar 23	•	Robotic solution for offsite residential construction	Seed	n/a	n/a	\$6.5
w.s. McGRATH	VESTA M O D U L A R	Feb 23	•	Temporary/modular solutions – acquired by publicly listed rental company	M&A	\$400.0		
start & engine	BOX∧BL	Feb 23	•	Modular residential solution	Crowd	\$4.9	\$3,360.0	\$114.1
VONOVIA	GROPYUS	Jan 23	•	Modular residential solution	Series B	\$107.0		\$235.4
GD GERDAU	Plant.	Dec 22	•	Modular residential solution	Series C	\$42.0	\$157.0	\$93.1
FIFTH WALL	ASSEMBLYOSM	July 22	•	Modular commercial solution	Series A	\$50.0	\$150.0	\$50.0
Horizon Technology Finance	NEXII	July 22	•	Modular commercial/residential solution	Early Stage	\$50.2	\$1,550.0	\$148.8
TIGERGLOBAL	Kón	Feb 22		3D printing solution for residential housing	Series B	\$392.0	\$1,600.0	\$443.0
BOND	Veev	Feb 22		Modular residential solution	Series D	\$400.0	\$600.0	\$646.5
WAED by aramco	Mighty Buildings	Feb 22	•	3D printing solution for residential housing	Series B	\$50.0		\$112.2



#### **Leading Built Environment Strategic Players**



Profile

### **AUTODESK**

Geospatial Information Systems (GIS)

> Design Technologies

Construction Technologies Energy and Asset Management

> Financials/ ERP

Headquarters:	San Francisco, CA				
Employees:	13,500				
Website:	www.autodesk.com				
Ownership Status:	Public (NAS:ADSK)				
Acquisitions Since 2018:	15				
TTM Revenue:	\$5,104				
Dry Powder:	\$5,213				

News & Notes

Why Construction AI, Autodesk Forma and Emerging Intelligent Tools Are Not Skynet

May 2023

Autodesk Acquires Cloud Software Solution UNIFI

March 2023

Autodesk and Epic Games to Deliver Real-Time, Immersive Design Capabilities to Customers

September 2022



Geospatial Information Systems (GIS)

> Design Technologies

Construction Technologies Energy and Asset Management

Financials/ ERP

Headquarters:	Exton, Pennsylvania
Employees:	5,000
Website:	www.bentley.com
Ownership Status:	Public (NAS:BSY)
Acquisitions Since 2018:	27
TTM Revenue:	\$1,166
Dry Powder:	\$156

Bentley Systems Announces Strategic Agreement with Worldsensing

March 2023

Bentley Systems Founder Keith Bentley to Retire
March 2023

Bentley Systems Launches 'Phase 2' of the Infrastructure Metaverse

November2022



Geospatial Information Systems (GIS)

> Design Technologies

Construction Technologies Energy and Asset Management

> Financials/ ERP

Headquarters:	Redlands, California
Employees:	5,000
Website:	<u>www.esri.com</u>
Ownership Status:	Private
Acquisitions Since 2018:	5
TTM Revenue:	n/a
Dry Powder:	n/a

Esri Introduces ArcGIS Reality Digital Twin Software
February 2023

NASA/Esri Agreement Enhances Use of NASA Geospatial Data

January 2023

Mapping Giant Esri Moves Further Into Design-Construction Space

July 2022

#### **Leading Built Environment Strategic Players**



Profile



Geospatial	
Information Systems	
(GIS)	

Design

**Technologies** 

Construction Technologies

Headquarters:	Lake Mary, Florida
Employees:	1,900
Website:	www.faro.com
Ownership Status:	Public (NAS:FARO)
Acquisitions Since 2018:	7
TTM Revenue:	\$362
Dry Powder:	\$397

#### News & Notes

FARO Technologies Appoints Peter Lau as President and Chief Executive Officer

June 2023

FARO Acquires SiteScape, a Leader in LiDAR Based Scanning Software

December 2022

FARO Acquires Mobile Scanning Market Leader, GeoSLAM September 2022



Geospatial Information Systems (GIS)

> Design Technologies

Construction Technologies **Energy and Asset** Management

**Energy and Asset** 

Management

Financials/

ERP

Financials/ ERP

Headquarters:	Everett, Washington
Employees:	18,000
Website:	www.fortive.com
Ownership Status:	Public (NYS:FTV)
Acquisitions Since 2018:	8
TTM Revenue:	\$5,973
Dry Powder:	\$6,452

ServiceChannel Partners with Accruent to Deliver Integrated Real Estate and Facilities Management Solution June 2023

Fortive Said to Have Bid \$60 a Share for National Instruments

April 2023

RealWear Acquires Genba AI from Fortive June 2022



Geospatial Information Systems (GIS)

> Design Technologies

Construction Technologies **Energy and Asset** Management

> Financials/ **ERP**

Headquarters:	Stockholm, Sweden
Employees:	24,000
Website:	www.hexagon.com
Ownership Status:	Public (STO:HEXA B)
Acquisitions Since 2018:	39
TTM Revenue:	\$5,618
Dry Powder:	\$7,289

Hexagon Acquires Canadian Automation Company Hard-Line

Hexagon, Sony Semiconductor Solutions Partner on Reality Capture

June 2023

Hexagon Acquires ProjectMates

January 2023

#### **Leading Built Environment Strategic Players**



Profile



Geospatial Information Systems (GIS)

> Design Technologies

Construction
Technologies

Energy and Asset
Management

Financials/ ERP

Headquarters:	New York, New York
Employees:	288,000
Website:	www.ibm.com
Ownership Status:	Public (NYSE:IBM)
Acquisitions Since 2018:	40
TTM Revenue:	\$60,525
Dry Powder:	\$20,049

News & Notes

IBM Sells The Weather Company Assets to Francisco Partners

August 2023

EY and IBM Collaborate to Address Complex ESG Challenges

March 2023

IBM Journey to More Sustainable Facilities: IBM As Client Zero

December 2022

# NEMETSCHEK

**GROUP®** 

Geospatial Information Systems (GIS)

> Design Technologies

Construction Technologies Energy and Asset Management

> Financials/ ERP

Headquarters:	Munich, Germany
Employees:	3,500
Website:	www.nemetschek.com
Ownership Status:	Public (ETR:NEM)
Acquisitions Since 2018:	2
TTM Revenue:	\$856
Dry Powder:	\$1,473

Vectorworks Connection to NVIDIA Omniverse Expands Designers' Opportunities in the Metaverse

March 2023

Nemetschek Group: Strategic Start-Up Investment in Construction Project Analytics Provider SmartPM

February 2023

Digitizing Construction Sites: Nemetschek Group invests in Robotic Start-Up KEWAZO

January 2023



Geospatial Information Systems (GIS)

> Design Technologies

Construction Technologies Energy and Asset Management

> Financials/ ERP

Headquarters:	Austin, Texas
Employees:	210,000
Website:	www.oracle.com
Ownership Status:	Public (NYS:ORCL)
Acquisitions Since 2018:	24
TTM Revenue:	\$49,954
Dry Powder:	\$25,126

Oracle's Pioneering Test Labs Aim to Solve Some of Real Estate's Biggest Problems

February 2023

Oracle Buys Newmetrix to Integrate AI Tech Into Cloud Platform

December 2022

Oracle Enhances Smart Construction Platform with New Analytics Capabilities

July 2022

#### **Leading Built Environment Strategic Players**



Profile



Geospatial
Information Systems
(GIS)
Design

Technologies

Construction Technologies Energy and Asset Management Financials/ ERP

Headquarters:	Carpinteria, California
Employees:	3,500
Website:	www.procore.com
Ownership Status:	Public (NYS:PCOR)
Acquisitions Since 2018:	8
TTM Revenue:	\$831
Dry Powder:	\$1,114

News & Notes

CLMA Labor Market Analyzer Tools Integrated with Procore

July 2023

Procore Launches Construction Insurance Brokerage to Empower Builders

March 2023

xxx Procore Expands Digital Twin Partnerships Through Integration with Willow

October 2022



Geospatial Information Systems (GIS)

> Design Technologies

Construction Technologies Energy and Asset Management

Financials/ ERP

Headquarters:	Sarasota, Florida
Employees:	16,000
Website:	www.ropertech.com
Ownership Status:	Public (NAS:ROP)
Acquisitions Since 2018:	7
TTM Revenue:	\$5,782
Dry Powder:	\$8,243

Roper Technologies Announces Move to NASDAQ
June 2023

Roper Technologies to Acquire Frontline Education
August 2022

Roper Technologies to Sell majority Stake in its Industrial Businesses to CD&R

June 2022



Geospatial Information Systems (GIS)

> Design Technologies

Construction Technologies Energy and Asset Management

> Financials/ ERP

Headquarters:	Newcastle, England
Employees:	11,500
Website:	www.sage.com
Ownership Status:	Public (LON:SGE)
Acquisitions Since 2018:	12
TTM Revenue:	\$2,528
Dry Powder:	\$1,949

AWS and Sage Expand Partnership

June 2023

Sage Streamlines Workflows for SMBs in Construction Industry With Corecon Acquisition

May 2023

Sage Acquires Spheric to Help SMBs Measure and Cut Their Carbon Emissions

October 2022

#### **Leading Built Environment Strategic Players**



Profile



Geospatial Information Systems (GIS)

> Design Technologies

Construction Technologies Energy and Asset Management

> Financials/ ERP

Headquarters:	Paris, France
Employees:	160,000
Website:	www.se.com
Ownership Status:	Public (PAR:SU)
Acquisitions Since 2018:	19
TTM Revenue:	\$37,389
Dry Powder:	\$31,217

News & Notes

Schneider Makes Bid Acquires Atos Group's EcoAct Sustainability Consultancy

July 2023

Schneider Electric Launches Nex-Gen Eco-Struxture Building Operation Solution

April2023

Schneider Completes Acquisition of Aveva

January 2023



Geospatial Information Systems (GIS)

> Design Technologies

Construction Technologies Energy and Asset Management

> Financials/ ERP

Headquarters:	Tokyo, Japan
Employees:	5,500
Website:	www.topcon.co.jp
Ownership Status:	Public (TKS:7732)
Acquisitions Since 2018:	5
TTM Revenue:	\$1,590
Dry Powder:	\$1,656

Topcon Acquires Finnish Radio Solutions Leader Satel
July 2023

Topcon Announces Strategic Investment in DDK Positioning

April 2023

Topcon Acquires Digital Construction Works
March 2023



Geospatial Information Systems (GIS)

> Design Technologies

Construction Technologies Energy and Asset Management

> Financials/ ERP

Headquarters:	Westminster, Colorado
Employees:	11,500
Website:	www.trimble.com
Ownership Status:	Public (NAS:TRMB)
Acquisitions Since 2018:	16
TTM Revenue:	\$3,650
Dry Powder:	\$1,381

Trimble Constructing Solar Array Project at Colorado Headquarters

June 2023

Trimble Advances Reality Capture with the New X9 3D Laser Scanner

May 2023

Trimble Introduces an All-In-One System for On-Machine Excavator Guidance and Site Surveying

March 2023

# **Public Companies**

#### Technology for the Built Environment



	Share Price	% 52-Wk	Market	Enterprise	Rev	enue Metrics	(2)	Profitabi	lity Margins (2)	EV / Ro	evenue	EV / EBI	TDA <sup>(3)</sup>	Dry	TTM
Company(1)	8/31/23	High	Сар	Value	CY 22A	CY 23E	Growth	TTM GM	TTM EBITDA	CY 22A	CY 23E	CY 22A	CY 23E	Powder(4)	Acqs.
Design / Construction															
Autodesk	\$221.94	95.0%	\$47,443	\$48,035	\$5,005	\$5,432	8.5%	90.4%	22.0%	9.6	8.8	46.8	23.3	\$5,086	1
Bentley Systems	\$49.91	90.1%	\$14,722	\$16,322	\$1,099	\$1,230	11.9%	78.1%	25.5%	14.9	13.3	41.2	39.8	\$147	3
Nemetschek Group	\$69.66	86.3%	\$8,046	\$7,981	\$843	\$897	6.4%	57.8%	28.9%	9.5	8.9	20.0	30.4	\$1,473	
Procore	\$67.55	87.9%	\$9,618	\$9,095	\$720	\$923	28.2%	80.6%	(24.9%)	12.6	9.8			\$1,114	
Design / Construction Mean Design / Construction Median		89.8% 89.0%	\$19,957 \$12,170	\$20,358 \$12,708	\$1,917 \$971	\$2,120 \$1,077	13.8% 10.2%	76.8% 79.4%	12.9% 23.8%	11.6 11.1	10.2 9.4	36.0 41.2	31.1 30.4	\$1,955 \$1,294	2.0 2.0
GIS / Hardware															
Faro	\$15.86	43.2%	\$301	\$302	\$346	\$350	1.3%	46.2%	(10.0%)	0.9	0.9			\$397	2
Hexagon	\$9.03	71.9%	\$24,292	\$28,476	\$5,426	\$5,860	8.0%	65.7%	34.7%	5.2	4.9	19.5	13.0	\$7,289	7
Topcon	\$12.02	79.4%	\$1,266	\$1,614	\$1,586	\$1,551	(2.2%)	52.2%		1.0	1.0	6.4		\$1,578	2
Trimble	\$54.79	85.0%	\$13,606	\$16,669	\$3,676	\$3,875	5.4%	59.8%	20.1%	4.5	4.3	16.7	16.7	\$1,381	4
GIS / Hardware Mean		69.9%	\$9,866	\$11,765	\$2,758	\$2,909	3.1%	56.0%	15.0%	2.9	2.8	14.2	14.9	\$2,661	3.8
GIS / Hardware Median		75.7%	\$7,436	\$9,141	\$2,631	\$2,713	3.4%	56.0%	20.1%	2.8	2.7	14.2	14.9	\$1,480	3.0
Industrial Technology															
Fortive	\$78.85	98.7%	\$27,757	\$30,028	\$5,826	\$6,098	4.7%	58.5%	25.3%	5.2	4.9	19.1	18.1	\$6,452	
Roper	\$499.06	98.9%	\$53,255	\$58,458	\$5,372	\$6,077	13.1%	69.7%	40.9%	10.9	9.6	24.6	23.7	\$8,243	2
Schneider Electric	\$173.31	94.6%	\$97,202	\$111,704	\$35,933	\$39,100	8.8%	41.5%	19.9%	3.1	2.9	13.8	13.7	31, 217	4
Industrial Technology Mean		97.4%	\$59,405	\$66,730	\$15,710	\$17,091	8.9%	56.5%	28.7%	6.4	5.8	19.2	18.5	\$7,348	3.0
Industrial Technology Median		98.7%	\$53,255	\$58,458	\$5,826	\$6,098	8.8%	58.5%	25.3%	5.2	4.9	19.1	18.1	\$7,348	3.0
ERP / Horizontal															
IBM	\$146.83	95.8%	\$133,763	\$177,839	\$60,530	\$62,213	2.8%	54.6%	11.9%	2.9	2.9	34.0	11.8	\$20,049	10
Oracle	\$120.39	94.4%	\$326,770	\$407,547	\$46,073	\$51,958	12.8%	72.8%	36.9%	8.8	7.8	23.1	16.3	\$25,126	2
The Sage Group	\$12.34	99.0%	\$12,670	\$13,525		\$2,796		93.0%	19.9%		4.8		19.6	\$1,949	3
ERP / Horizontal Mean		96.4%	\$157,734	\$199,637	\$53,302	\$38,989	7.8%	73.5%	22.9%	5.9	5.2	28.6	15.9	\$15,708	5.0
ERP / Horizontal Median		95.8%	\$133,763	\$177,839	\$53,302	\$51,958	7.8%	72.8%	19.9%	5.9	4.8	28.6	16.3	\$20,049	3.0
Built Environment Mean Built Environment Median		87.2% 92.3%	\$55,051 \$19,507	\$66,257 \$22,573	\$13,264 \$5,005	\$13,454 \$4,654	8.4% 8.0%	65.8% 62.8%	19.3% 22.0%	6.9 5.2	6.1 4.9	24.1 20.0	20.6 18.1	\$6,176 \$1,949	3.6 3.0

<sup>(1)</sup> Currency normalized to USD, on share price date

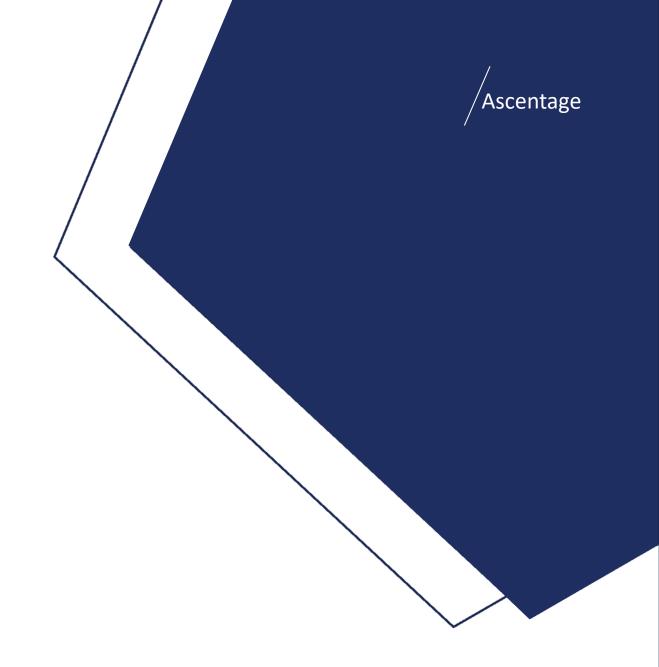
[(125% of Revenue less Debt) + (50% of Cash & C.E.) + (20% of Mkt. Cap.)], or

[(6x EBITDA less Debt) + (50% of Cash & C.E.) + 20% of Mkt. Cap.)]

<sup>(2)</sup> Wall Street consensus estimates

<sup>(3)</sup> EV / Revenue and EV / EBITDA multiples in excess of 50.0x or less than 0.0x are considered not meaningful

<sup>(4)</sup> Dry Powder - greater of:



**III.** 

**Comparable Transactions** 



Autodesk Bentley	Oracle Procore	Announced  Autodesk  Mar-23  Mar-22  Feb-22	Target Unifi Labs The Wild	Description BIM content solutions	Estima Revenue	ated EBITDA	Deal Value	Deal Value / Revenue	Estimated EBITDA
Bentley	Procore	Mar-23 Mar-22		BIM content solutions			Total Disclosed	JAMPA Dool Vol	\\
Bentley	Procore	Mar-22		BIM content solutions				a ivi oca Deai vait	ue: \$2.5 Billion
Bentley	Procore		The Wild		n/a	n/a	n/a	n/a	n/a
Bentley	Procore	Feb-22		VR/AR collaboration platform	n/a	n/a	n/a	n/a	n/a
			Prodsmart	Computer integrated manufacturing software	n/a	n/a	n/a	n/a	n/a
		Jan-22	Moxion	Digital media platform for filmmaking process	n/a	n/a	n/a	n/a	n/a
		Dec-21	ProEst	Construction estimating and digital takeoff software	n/a	n/a	n/a	n/a	n/a
		Nov-21	Tangent Labs	Production software pipline tool for artists and studios	n/a	n/a	n/a	n/a	n/a
		Sep-21	IOFFICE	Workplace experience and asset mgmt. software	n/a	n/a	n/a	n/a	n/a
ESRI	_	May-21	Upchain	Cloud product lifecycle mgmt.	n/a	n/a	\$139.8	n/a	n/a
ESKI	Roper	Mar-21	Innovyze	Business analytics and performance monitoring software	n/a	n/a	\$1,038.3	n/a	n/a
		Nov-20	Spacemaker	Generative design for real estate project sites	n/a	n/a	\$252.0	n/a	n/a
		Oct-20	CAMplete Solutions	Processing and verification software for manufacturing	n/a	n/a	n/a	n/a	n/a
		Aug-20	Pype	Construction data ingestion	n/a	n/a	n/a	n/a	n/a
		Jan-19	BuildingConnected	Preconstruction planning solutions	n/a	n/a	\$253.2	n/a	n/a
Faro	Caga	Nov-18	PlanGrid	Digital blueprint solutions	\$100.0	n/a	\$777.6	7.8x	n/a
1 010	Sage	Jul-18	Assemble Systems (1)	BIM solutions for construction mgmt.	Confidential	Confidential	Confidential	Confidential	Confidential
		Bentley					Total Disclose	d M&A Deal Valu	ue: \$1.8 Billion
		Aug-23	Blyncsy	Traffic management analytics solution	n/a	n/a	n/a	n/a	n/a
	C = la = ! = l =	Feb-23	Easy Power	Design and analysis software for electrical engineering	n/a	n/a	n/a	n/a	n/a
Fortive	Schneider	Dec-22	Minerva	Al solution for 3D modeling of drilling/mining	n/a	n/a	\$0.8	n/a	n/a
101110	Electric	Jul-22	Eagle.io	IoT platform solution	n/a	n/a	n/a	n/a	n/a
	Licotiio	Apr-22	ADINA	Finite element analysis software	n/a	n/a	n/a	n/a	n/a
		Nov-21	Power Line Systems	Structural and geometric deisgn software for electric power lines	\$40.0	n/a	\$725.0	18.1x	n/a
		Jun-21	Seequent	3D geological modeling and visual data software	\$83.0	n/a	\$1,050.0	12.7x	n/a
		Jun-21	SPIDA Software	Utility engineering and business processes software	n/a	n/a	n/a	n/a	n/a
Hexagon	Topcon	May-21	Sensemetrics	Centralized sensor data software	n/a	n/a	n/a	n/a	n/a
	торсоп	Apr-21	Vista Data Vision	Instrumentation data monitoring and mgmt. software	n/a	n/a	n/a	n/a	n/a
		Apr-21	INRO Consultants	Mobility simulation and modeling for transport sector	n/a	n/a	n/a	n/a	n/a
		Feb-21	E7	Field-based construction delivery solutions	n/a	n/a	n/a	n/a	n/a
		Jul-20	Cohesive Solutions	IBM Maximo reseller	n/a	n/a	n/a	n/a	n/a
		Jun-20	Notevault	Voice-based field automation application	n/a	n/a	n/a	n/a	n/a
IBM	Trimble	Mar-20	GroupBC	Document and information mgmt. tools	n/a	n/a	n/a	n/a	n/a
		Oct-19	Citilabs	Mobile analytics platform	n/a	n/a	n/a	n/a	n/a
		Oct-19	Orbit GeoSpatial Technologies	Geospatial 3D mapping software	n/a	n/a	n/a	n/a	n/a
		May-19	Keynetix	Geotechnical data mgmt. software	n/a	n/a	n/a	n/a	n/a
		Mar-19	Digital Water Works	Water digital twin solution	n/a	n/a	n/a	n/a	n/a
Ni a sa a ta a la a la		Feb-19	SignCAD Systems	Traffic sign design software	n/a	n/a	n/a	n/a	n/a
Nemetschek		Nov-18	Alworx	Machine learning and loT technologies	n/a	n/a	n/a	n/a	n/a
		Nov-18	ACE Enterrpise	Mobile solution for industrial EAM	n/a	n/a	n/a	n/a	n/a
		Oct-18	Agency9	Advanced digital twin modelling	n/a	n/a	n/a	n/a	n/a
		Oct-18	Legion	Pedestrian simulation software	n/a	n/a	n/a	n/a	n/a
		Jun-18	Synchro Software	4D building information modelling	n/a	n/a	n/a	n/a	n/a
		Apr-18 Apr-18	Plaxis SoilVision Systems	Geotechnical software tools Software database for geotechnical engineers	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a

<sup>(1)</sup> Ascentage-advised transaction NOTE: Acquisitions from Jan. 1, 2018 to present Sources: Pitchbook, LinkedIn, company websites, press releases



Deal Value / Estimated

n/a

n/a

n/a

n/a

n/a

n/a

n/a

n/a

3.4x

7.4x

6.0x

17.1x

8.5x

18.1x

**EBITDA** 

n/a

n/a

n/a

n/a

n/a

n/a

n/a

n/a

n/m

n/a

n/a

n/a

n/a

n/a

n/a

n/a

n/a

n/a

**Transaction Statistics** 

Revenue

Deal

Value

n/a

n/a

\$45.0

\$33.9

\$7.0

\$21.7

\$7.3

\$1,425.0

\$1,200.0

\$2,700.0

\$2,000.0

\$775.0

n/a

n/a

13.00x

n/a

n/a

n/a

\$0.3

n/a

n/a

n/a

		(\$ in Millions)		Target Overview		
Autodesk	Oundle				Estim	ated
Autouesk	Oracle	Announced	Target	Description	Revenue	EBITD
		ESRI				
Bentley	Procore	Dec-20 Sep-20 Apr-19 Feb-19 Feb-18	Zibumi nFrames ESRI India indoo.rs ClearTerra	Geospatial siulations and analyses lab 3D reconstructioni software Acquisition of Indian JV Indoor positioning and navigation technology Geospatial and activitty based intelligence software	n/a n/a n/a n/a n/a	
		FARO Technolog	ries			
ESRI	Roper	Dec-22 Sep-22 Jun-21 Aug-20	SiteScape GeoSLAM HoloBuilder Advanced Technical Solutions	3D handheld scanning solution 3D handheld scanning solution Al software for construction progress documenting Laser technology distance measurement solutions	n/a n/a \$4.0 n/a	
Faro	2000	Jul-18 Jul-18 Mar-18	Opto-Tech Lanmark Controls PhotoCore	3D scanners for 3D modeling and CAD applications Laser marking control board 3D measurement software solutions	\$1.2 n/a n/a	,
Taio	Sage	Fortive				
Fortive	Schneider Electric	Dec-21 Sep-21 Jul-21 Nov-20 Oct-19 Apr-19 Sep-18	Provation Software TeamSense Servicechannel.com Moore andGaserecz Global Censis Technologies Advanced Sterilization Products Accruent	Healthcare software for clinical productivity Text-based employee management solution Facilities management service automation EHS technology to extract and translate documents Surgical asset mgmt. software Infection prevention technologies Enterprise content mgmt. software	n/a n/a \$70.2 n/a n/a \$800.0 \$270.0	
Hexagon	Topcon	Jul-18	Gordian Group	Construction software for all stages of construction	\$130.0	
IBM	Trimble					
Nemetschek						



		(\$ in Millions)		Target Overview			Transaction Statistics			
Autodesk	Oracle	Announced	Target	Description	Estima Revenue	ited EBITDA	Deal Value	Deal Value / Revenue	Estimated EBITDA	
		Hexagon					Total Disclosed	l M&A Deal Valu	ıe: \$7.0 Billion	
Bentley	Procore	Jul-23 Hard-Line i Jun-23 CADS Addi Jan-23 ProjectMai Dec-22 Qognify Nov-22 LocLab Col	litive ates	Remote autonomous mining solution Additive manufacturing software solution Construction program management solution Business security services 3D modeling solution	n/a n/a n/a n/a	n/a n/a n/a n/a	n/a n/a n/a n/a n/a	n/a n/a n/a n/a	n/a n/a n/a n/a	
ESRI	Roper	Feb-22 ETQ Jan-22 Minnovare	Accelerator	Computer vision-based construction productivity toolset BIM software solution Workplace safety solution EHS and compliance management software Industrial drilling technology and software Enterprise asset mgmt. software	n/a n/a n/a \$75.0 n/a n/a	n/a n/a n/a \$26.3 n/a n/a	n/a n/a n/a \$1,200.0 n/a \$2,820.0	n/a n/a n/a 16.0x n/a n/a	n/a n/a n/a n/m n/a n/a	
Faro	Sage	Sep-21         Jovix           Jul-21         Immersal           Apr-21         CADLM           Dec-20         OxBlue           Nov-20         PAS Global           Oct-20         DP Techno		Material tracking software Spatial mapping and visual positioning solutions Engineering design software High resolution contruction camera systems Process safety and cybersecurity CAM software for CNC machine tools	n/a n/a n/a n/a \$39.8 \$39.2	n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a	
Fortive	Schneider Electric	Jul-20         Tacticawan           Mar-20         CAEfatigue           Feb-20         Romax Tec           Jan-20         Blast Move           Jan-20         Geopraeve	e chnology vement	LIDAR-based 3D surveillance software  Mechanical fatigue simulation solutions  Electromechanical drivetrain design and simulation services  Mapping and geospatial data services  Blast movement monitoring technology  Sensors and measuring technologies for navigating natural hazarc	n/a n/a n/a \$15.8 \$21.4 n/a	n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a	
Hexagon	Topcon	Jan-20 Volume GF  Jun-19 AMendate  Feb-19 Thermopyl  Jan-19 Etalon  Oct-18 Bricsys	raphics e <sub>/</sub> lae	Software for testing industrial computed tomograph Generative design for additive manufacturing Govt. anddefense geospatial applications Operational risk mgmt. software Machine / equipment calibration solutions CAD software for AEC market	\$29.3 n/a \$48.0 n/a n/a \$14.7	n/a n/a n/a n/a n/a \$1.5	n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a	
IBM	Trimble	Sep-18 External-Ar Jun-18 Geocloud	echnologies ouStuff e	Metrology software for CMM manufacturers Ski slope infrastructure measurement Machine tool simulation and verification software Integrated autonomous vehicle solutions Non-contact profile measurement andinspection German distributor of Alphacam CAM software	n/a n/a \$9.5 \$45.0 \$13.5 n/a	n/a n/a \$0.4 n/a n/a n/a	n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a	
Nemetschek		Apr-18 ProCAM G Mar-18 AGTEK Jan-18 Plant Desig		Italian distributor of Vero Software Construction project modeling software Distributor of CADWorx and Analysis software Digital project completion and commissioning	n/a n/a n/a n/a	n/a n/a n/a n/a	n/a n/a n/a n/a n/a	n/a n/a n/a n/a	n/a n/a n/a n/a	



		(\$ in Million	ns)	Target Overview			Tran	saction Statist	ics		
Autodesk	Oracle	Announc	<u> </u>		Estima Revenue	ated EBITDA	Deal Value	Deal Value / Revenue	Estimated EBITDA		
		IBM					Total Disclosed I	M&A Deal Value	e: \$41.1 Billion		
Bentley	Procore	Jun-23 Jun-23 May-23 Apr-23 Mar-23	Apptio Agyla.Cloud Polar Security Ahana NS1	Technology management solution IT consulting services Cybersecurity solution Analytics platfrom solution Internet traffic management platform	n/a n/a n/a n/a n/a	n/a n/a n/a n/a	\$4,600.0 n/a \$60.0 n/a n/a	n/a n/a n/a n/a	n/a n/a n/a n/a n/a		
ESRI	Roper	Feb-23 Dec-22 Nov-22 Sep-22 Jun-22 Jun-22	StepZen Octo Omnio Dialexa Databand Randori	Database connection solution IT consulting services IoT connector solution IT consulting services Database software Cybersecurity network management solution	n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a \$150.0 n/a	n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a		
Faro	Sage	Feb-22 Jan-22 Jan-22 Jan-22 Dec-21 Dec-21	Neudesic Sentaca Envizi Tricentis McD Tech Labs Rego Consutling	IT consulting services IT consulting services for telecommunications industry Carbon management platform Software testing toolset Al voice recognition and processing IT consulting services	n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a		
Fortive	Schneider Electric	Nov-21 Nov-21 Oct-21 Jul-21 Jul-21	Nov-21 Oct-21 Jul-21 Jul-21	Nov-21 Oct-21 Jul-21 Jul-21	ReaQta SXIQ Apprente Boatbox Technologies Bluetab Solutions	Cybersecurity network management solution IT consulting services Al voice recognition and processing IT consulting services IT consulting services	n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a	n/a \$29.3 n/a n/a \$89.2	n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a
Hexagon	Topcon	Jul-21 Jul-21 Jun-21 May-21 Apr-21 Feb-21	Volta Networks Waeg Turbonomic Catalogic Software ECX mylnvenio Taos Mountain	Network routing platform IT consulting services Al application resource management solution Database software Process mining software IT consulting services	n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a	n/a n/a \$1,830.0 n/a n/a n/a	n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a		
IBM	Trimble	Jan-21 Dec-20 Dec-20 Dec-20 Nov-20 Sep-20 Jul-20 Jun-20 Jun-19 Jun-18 May-18 May-18	Nordcloud Intana 7 Summits Expertus Technologies TruQua Enterprises WDG Automation	IT consulting services Micro-services monitoring platform IT consulting services Digital payment technologies IT consulting services Robotic process automation software	n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a		
Nemetschek			Jun-20 Jun-19 Jun-18 May-18	Jun-20 Jun-19 Jun-18 May-18	Dock Joined Spanugo Red Hat Oniqua MRO Analytics Armanta Mediobanca Innovation Services	Digital payment technologies Cybersecurity network management solution Enterprise IT services Mainenance, repair, and ops analytics software BI platform for enterprise infrastructure IT consulting services	n/a n/a \$3,400.0 n/a n/a n/a	n/a n/a n/a n/a n/a n/a	n/a n/a \$34,000.0 n/a n/a \$343.8	n/a n/a 10.0x n/a n/a n/a	n/a n/a n/a n/a n/a



		(\$ in Millions		Target Overview		<u> </u>	Transaction Statistics			
Autodesk	Oracle	Appaupage	d Towart	Description	Estima	ated EBITDA	Deal Value	Deal Value /	Estimated EBITDA	
		Announce	d Target	Description	Revenue			Revenue		
		Nemetschek				Tot	al Disclosed M	&A Deal Value: 5	\$153.7 Million	
		Jan-19	Axxerion	Sftware for workplace and facility automation	\$14.2	n/a	\$96.8	6.8x	n/a	
Bentley	Procore	Aug-18	Spacewell	Digital real estate, work, an facility mgmt. software	\$17.7	n/a	\$56.9	3.2x	n/a	
20	FIOCOTE	Oracle				T	otal Disclosed I	M&A Deal Value	e: \$29.9 Billion	
		Oct-22	Newmetrix	Computer vision solution for construction safety	n/a	n/a	n/a	n/a	n/a	
		Sep-22	FOEX	Web applications solution	n/a	n/a	n/a	n/a	n/a	
		May-22	Adi Insights	Dynamic staff scheduling platform	n/a	n/a	n/a	n/a	n/a	
ESRI	Popor	Jan-22	NetSuite CPQ Verenia	Enterprise information technology software solution	n/a	n/a	n/a	n/a	n/a	
23111	Roper	Dec-21	Federos	Carrier-grade, digital service assurance solutions	n/a	n/a	n/a	n/a	n/a	
		Dec-21	Cerner Corporation	Healthcare IT solutions and tech-enabled services	\$5,414.5	\$1,436.5	\$28,155.2	5.2x	19.6x	
		Jun-21 Apr-21	Gloria Food	Online restaurant ordering solution	n/a	n/a	n/a	n/a	n/a	
		Apr-21 Dec-20	FarApp Nor1	e-commerce automation solution  Hospitality management platorm solution	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	
_		Oct-20	Chat Labs	Marketing, e-commerce and data management solution	n/a	n/a	n/a	n/a	n/a	
Faro	Sage	Apr-20	Sauce Video	Video content creation and sourcing solution	n/a	n/a	n/a	n/a	n/a	
	Ü	Apr-20	LiveData Utilities	Real-time data solutions for utility companies	n/a	n/a	n/a	n/a	n/a	
		Nov-19	CrowdTwist	Cloud-based customer loyalty platform	n/a	n/a	n/a	n/a	n/a	
		Jun-19	Oxygen Systems	Netsuite cloud network in Brazil	n/a	n/a	n/a	n/a	n/a	
		Dec-18	goBalto	Cloud-based clinical management solution	n/a	n/a	n/a	n/a	n/a	
Fortive	Schneider	Nov-18	Talari Networks	WAN management solution	n/a	n/a	n/a	n/a	n/a	
TOTEIVE	Electric	Oct-18	Data Fox	Online investor research platform solution	n/a	n/a	n/a	n/a	n/a	
	Licetiie	Oct-18	Iridize	Customer onboarding and training	n/a	n/a	n/a	n/a	n/a	
		Jun-18	Datascience.com	Enterprise data science solution	n/a	n/a	n/a	n/a	n/a	
		May-18	Grapeshot	Advertising targeting solution	n/a	n/a	\$400.0	n/a	n/a	
		Apr-18	Vocado	SaaS financial aid mangement solution	n/a	n/a	\$139.0	n/a	n/a	
Hexagon	Topcon	Apr-18	Sparkline Data	Data warehouse platform solutin	n/a	n/a	n/a	n/a	n/a	
<u> </u>	-		Dyn	Cloud-based cybersecurity solution	n/a	n/a	n/a	n/a	n/a	
		Mar-18	Aconex	Construction collaboration and doc mgmt. software	\$131.9	\$9.1	\$1,181.0	9.0x	n/m	
		Procore				Tot	al Disclosed M	&A Deal Value:	\$746.5 Million	
		Oct-21	LaborChart	Cloud scheduling application for construction	n/a	n/a	\$76.2	n/a	n/a	
IBM	Trimble	Sep-21	Levelset	Lien rights management software solution	n/a	n/a	\$481.1	n/a	n/a	
	THIIDIC	May-21	INDUS.AI	Construction Intelligence-as-a-Service software	n/a	n/a	\$24.3	n/a	n/a	
		Oct-20	Esticom	Contractor take off and estimating software	n/a	n/a	n/a	n/a	n/a	
		Jan-20	Avata Intelligence	Al and ML analytics for enterprises	n/a	n/a	\$3.8	n/a	n/a	
		Dec-19	Honest Buildings	Project mgmt. platform for construction	n/a	n/a	\$161.0	n/a	n/a	
No sector de el		Aug-19	Constructioin BI	Data analytics and reporting solutions	n/a	n/a	n/a	n/a	n/a	
Nemetschek		Sep-18	Zimfly	Visual collab. platform for construction mgmt.	n/a	n/a	n/a	n/a	n/a	
		Roper				Ţ	otal Disclosed I	M&A Deal Value	e: \$13.9 Billion	
		Aug-23	Syntellis Performance Solutions	Enterprise performance management software	\$185.0	\$85.0	\$1,250.0	6.8x	15.0x	
		Oct-22	Frontline Education	Cloud-based education software	n/a	n/a	\$3,740.0	n/a	n/a	
		Sep-20	Vertafore	Cloud-based insurance software	n/a	n/a	\$5,398.6	n/a	n/a	
		Jun-20	Team TSI	Healthcare data systems software	n/a	n/a	\$240.0	n/a	n/a	
		Aug-19	Internet Pipeline	Sales distribution software	\$157.5	n/a	\$1,625.0	10.3x	n/a	
		Apr-19	The Foundry Visionmongers	Computer graphics and visual effects software	\$61.0	\$21.9	\$537.0	8.8x	24.5x	
		Jun-18	PowerPlan	Asset-centric financial forecasting and monitoring	n/a	n/a	\$1,111.4	n/a	n/a	



#### **Public Companies and Leading Platforms**

		(\$ in Millions)		Target Overview			Trar	nsaction Statist	ics
Autodesk	Oracle	Announced	Target		Estima Revenue	ated EBITDA	Deal Value	Deal Value / Revenue	Estimated EBITDA
		Sage					Total Disclosed	l M&A Deal Valu	ıe: \$0.4 Billioı
Bentley	Procore	May-23 Nov-22 Aug-22 May-22 May-22	Corecon Technologies Speherics Lockstep Huatuo Software Futrli	Constuction management solution Carbon accounting solution AP and AR solution Chinese software solutions Financial forecasting solution	n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a	n/a \$12.3 n/a n/a n/a	n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a
ESRI	Roper	Apr-22 Dec-21 Oct-21 Mar-21 Nov-19 Sep-19	MAS Integrated Solutions Brightpearl Goproposal Task Sheriff CakeHR OCRex	Financial solution for Roman Catholic diocese operations Cloud inventory management and ERP software Pricing and data services for accountancy firms Bookkeeping software HR management software OCR software for accounting solutions	n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a	n/a \$299.0 n/a \$17.9 n/a \$51.7	n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a
		Mar-18 Schneider Electric	Budgeta	Financial planning and budgeting solution	n/a	n/a	\$11.2	n/a M&A Deal Value	n/a
Faro	Sage	Jul-23 Jan-23 Dec-22	EcoAct Aveva EBERLE Controls	International consulting and project development Acquisition of remaining shares in listed industrial software HVAC control solutions - divested to management team	n/a n/a n/a	n/a n/a n/a	n/a \$12,400.0 n/a	n/a n/a n/a	n/a n/a n/a
Fortive	Schneider Electric	Sep-22 Jul-22 Mar-22 May-22 Mar-22 Mar-22	Aplines AutoGrid EV Connect Xcelgo J&K Regeltechnik EcoStruxture Transformer	Vegetation management solution for electrical utilities Energy internet applications Electric vehicle (EV) charging station solutions 3D modeling software Building automation technology solutions Transformer condition monitoring solution	n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a
Hexagon	Topcon	Feb-22 Jan-22 May-21 Mar-21 Jan-21 Noy-20	EnergySage Zeigo Acquis Software Uplight DC Systems ETAP	Marketplace for solar and clean energy technologies Climate technology platform Water loss management software Utility cloud solutions for customer intelligence Hybrid AC/DC microgrid distribution systems Power system optimization andautomation software	n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a	n/a n/a \$3.7 n/a n/a n/a	n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a
IBM	Trimble	Aug-20 Aug-20 Jul-20 Feb-19	Larsen andToubro (Electrical) ProLeiT RIB Software Itris Automation Square	Electrical and automation services Automation and process control software Construction and infra mgmt. software Platform and language independent dev tools	n/a n/a n/a \$270.8 \$1.6	n/a n/a n/a \$84.2 \$2.2	\$1,870.9 n/a \$1,719.9 n/a	n/a n/a n/a 6.4x n/a	n/a n/a n/a 20.4x n/a

Nemetschek

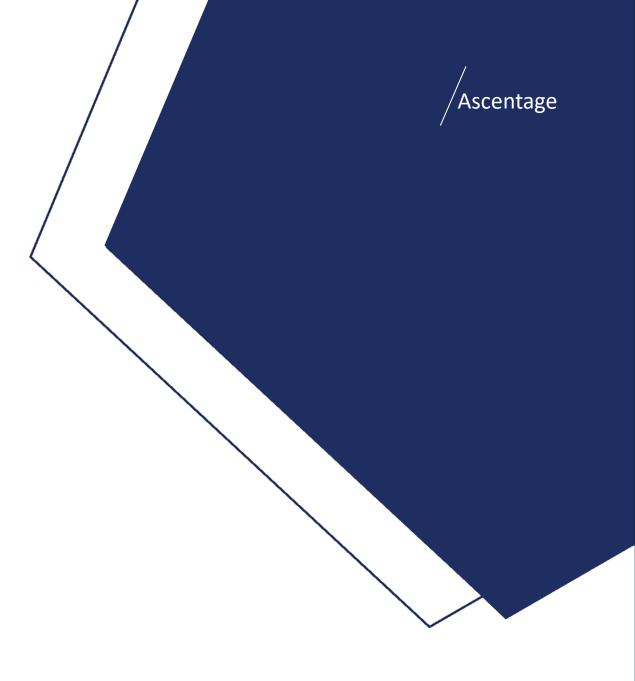


		(\$ in Millions)		Target Overview			Tran	saction Statist	ics
Autodesk	Oracle	Announced	Target	Description	Estim Revenue	ated EBITDA	Deal Value	Deal Value / Revenue	Estimated EBITDA
		Topcon					Total D	isclosed M&A D	eal Value: n/a
Bentley	Procore	Jul-23 Mar-23 Jul-21 Apr-18 Feb-18	Satel Digital Construction Works Visia Imaging Topcon Healthcare ClearEdge3D (1)	Manufactures wireless connectivity solutions Formerly Topcon/Bentley JV - software integration services Manufactures ophthalmic devices Medical imaging software 3D modeling software for plants and buildings	\$19.5 n/a n/a \$0.8 Confidential	\$2.2 n/a n/a n/a Confidential	n/a n/a n/a n/a Confidential	n/a n/a n/a n/a Confidential	n/a n/a n/a n/a Confidential
		Trimble					Total Disclosed	l M&A Deal Valu	ıe: \$4.5 Billion
ESRI	Roper	Apr-23 Jan-23 Sep-22 Sep-22	Transporeon Ryvit B2W Software Bilberry	Transportation/supply chain management solution Software integration platform for AEC industry Heavy construction project management solution Solution for agricultural spotspraying	n/a n/a n/a n/a	n/a n/a n/a n/a	\$2,002.0 n/a \$322.1 n/a	n/a n/a n/a n/a	n/a n/a n/a n/a
Faro	Sage	Dec-21 Sep-20 Jan-20 Dec-19 Dec-19	AgileAssets (1) MidStates VRS Kuebix AllTerra (iBase Network) Cansel (Can-Net Network)	Infrastructre EAM solutions for government Kinematic quality corrections for construction Transportation mgmt. systems Virtual reference station network services VRS networks and single-base solutions	Confidential n/a n/a n/a n/a	Confidential n/a n/a n/a n/a	\$237.5 n/a \$201.8 n/a n/a	Confidential n/a n/a n/a n/a	Confidential n/a n/a n/a n/a
Fortive	Schneider Electric	Oct-19 Sep-19 Oct-18 Jul-18 Apr-18 Feb-18 Jan-18	Cityworks 3LOG Systems Veltec Solucoes Tecnologicas Viewpoint (Construction Unit) FabSuite e-Builder Stabiplan	Public asset and land mgmt. software Timber mgmt. software Fleet mgmt. platform Project mgmt. for construction industry Steel fabrication mgmt. software Construction program mgmt. software Design software and MEP engineering services	n/a n/a n/a \$200.0 n/a \$43.4 n/a	n/a n/a n/a n/a n/a n/a	n/a n/a n/a \$1,212.1 n/a \$485.2 n/a	n/a n/a n/a 6.1x n/a 11.2x n/a	n/a n/a n/a n/a n/a n/a
		Total High						18.1x	24.5x
Hexagon	Topcon	Total Low							15.0x
Пехадоп	Торсоп	Total Average						9.2x	19.9x
		Total Median						8.1x	20.0x
IBM	Trimble								
Nemetschek									

<sup>(1)</sup> Ascentage-advised transaction NOTE: Acquisitions from Jan. 1, 2018 to present Sources: Pitchbook, LinkedIn, company websites, press releases

IV.

About Us



#### Ascentage is Well Positioned





#### **Business Development Consulting**

#### and

#### **Transaction Advisory**

#### **Product and Customer**

- Customer use case(s)/value proposition
- Total available market (TAM), segment selection and market penetration strategy
- Minimum viable product (MVP) and product/market fit

#### Sales/Growth

- New customer development
- Pricing
- Alternative channels and strategic partnerships
- Domestic versus international markets
- Sales process and organization

#### Intellectual Property (IP) licensing and management

#### **Strategy and Organization**

- Strategic direction, market trends and momentum
- Corporate development and long-term planning
- Executive team building

#### Financial/Controls

- Modeling for budgeting and forecasting
- Financial compliance and controls, especially revenue recognition policies
- Business process and operational standards

 M&A – planning, strategizing, preparation and execution – both sell- and buy-side

- Equity/Financing
- JVs, Alliances and Strategic Partnering

for

#### **Technology-Based Companies**

- Software SaaS through to mobility applications
- Location-based GIS and LiDAR
- Hardware robotics, drones and IoT sensors
- Data Analytics, Artificial Intelligence
- Solution/consulting

focused on

# Built Environment Buildings / Civil Infrastructure / Industrial / Energy

- Design BIM, PLM and design tools
- **Build** construction collaboration, estimating, scheduling and project management software; prefabrication/modular solutions
- Operate/Maintain facility, energy and asset management

#### Trusted Advisor to the Built Environment

# 25+ Year History of Successful M&A Transactions Supported by Depth of AEC Industry Knowledge





AUTÓDESK.

Facilities Management

Software

**Bentley**<sup>®</sup>

Water Resource

CAD Solution

**Bentley** 

Road and Rail

Design Software

2020

Cloud Interior

Design Software

RUXIV	TECH SOFT³D
on of	Strategic Investment by
Т	Battery
Schedule nent	Engineering Visualization Toolkits
IS	envista
O	Sale to
Earth	<b>≧</b> Accela
Asset nent	Right-of-Way Management Software
is.	MOBILE ROBOTS
0	Sale to
ts	adept
ed	Mobile Robot Software

and Technology

**Design**Source

S SOLIDWORKS

PDM Software

Application

KLEINFELDER

**Engineering Consulting** 

CORE

AE Project and

Office Management

## Our Team – Ascentage Advisors



- Ascentage Advisors provides corporate development and M&A advisory services to technology firms serving the built environment – design, build, operate, maintain
- For more than 20 years, business owners, founders and investors have turned to us for tactical and strategic leadership.
- Our team distinguishes its ability to provide compelling services to our portfolio of clients based on hard-earned domain knowledge.
- The principals are registered representatives of Pickwick Capital Partners, LLC, a member of FINRA and SIPC



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- Deal-making negotiation and structuring
- Software industry relationships/track record



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- Strategy, corporate development and financial
- AEC industry relationships/track record



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- Founder of <u>Big Blue Innovations</u>



### Our Extended Team – Ascentage Group

- Ascentage Group provides business development consulting services to guide the growth, evolution and exit objectives of small to mid-sized technology companies
- We work closely with your company and strive to achieve common goals; our best relationships are long term and often continue for three or more years
- With a 'roll up your sleeves' ethic, our team works as an extension of your executive management team; we may also serve on your board of directors or advisory board when appropriate



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#### Sources and Disclosures

#### Ascentage Advisors, LLC



#### Sources and Notes

#### Data Sources

- 1. Pitchbook
- 2. LinkedIn
- Public company releases, filings, and earnings transcripts

#### **Company References**

Miscellaneous company and press releases

#### Disclosures

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