



Construction Software Market Map

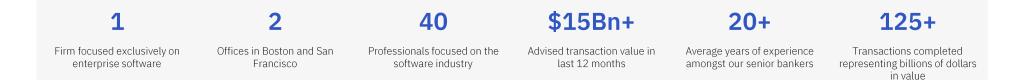
Agenda

→ Shea & Company Firm Overview

- Construction Market Overview & Trends
- Market Segmentation
- Sector Deep-Dives: Construction Market
- Select Construction Software Companies for Discussion



Shea & Company Overview About Our Firm



Mergers & Acquisitions. Private Placement & Capital Raising. Corporate Strategy.

Shea & Company has advised on important transactions representing billions of dollars in value across the strategic acquirer and financial investor landscape with Clients in the U.S. as well as Canada, Europe and Israel.



Shea & Company Overview Case Study: MRI Software's Acquisition of Angus Systems

Transaction Notes & Rationale

Transaction Highlights

- Angus Systems, a leading provider of enterprise-class facilities management solutions for commercial real estate owners and operators, has agreed to be acquired by MRI Software
- Engagement: Shea & Company was engaged to evaluate and solicit interest from a select set of financial sponsors and strategic acquirers
- **Sector:** Real Estate and Facilities Management
- Shea & Company Role: Exclusive financial advisor to Angus Systems

Angus Systems Profile

- Angus Systems' platform streamlines service management processes, preserves asset values, ensures safe and secure access, improves tenant experiences and builds engaging communities
- The Company's platform increases productivity and reduces operating costs for real estate owners and operators while elevating tenant experiences
- Over 700 commercial real estate owners and operators use Angus Systems' solution offerings across 2.7 billion square feet of space
- Founded in 1980, Angus Systems is headquartered in Toronto

MRI Software Profile

- MRI Software is a leader in business management software solutions to the property management and investment industries as well as to corporate real estate managers
- As a leading provider of real estate enterprise software applications and hosted solutions, MRI serves the multifamily, commercial and investment advisor industries, helping them improve their bottom line and maximize their returns on their portfolios
- MRI Software is a portfolio company of GI Partners, Harvest Partners and TA Associates
- MRI Software was founded in 1971 and is headquartered in Cleveland, Ohio

has been acquired by



Shea & Company served as the exclusive financial advisor to Angus Systems



- The addition of Angus Systems to MRI Software will complement MRI Software's existing facilities management solutions with an enhanced breadth and depth of functionality and expands MRI's ability to support clients embracing digital transformation and ever-changing work environments
- "Technology plays a key role in addressing new standards for health, safety and compliance, as well as demands for digital, data-driven building operations and enhanced tenant experience. Modern, purpose-built platforms like Angus support all of these needs, unifying owners, tenants, vendors and technicians under one system. The software is an ideal complement to MRI's product suite, expanding our FM capabilities and providing additional resources to propel further innovation" – Saurabh Abhyankar (Chief Product Officer, MRI Software)
- "MRI's commitment to innovation and client success mirrors our own, and we're excited to introduce our solutions to this growing and thriving community. With landlords and corporations across a wide range of industries and geographies implementing return-to-office initiatives or hybrid work arrangements, the time is right to take advantage of new technologies. We'll continue to help our clients meet the challenges that arose during the pandemic and navigate new ones in the ever-changing real estate landscape." Chris Gale (Chief Executive Officer, Angus Systems)
- The acquisition by MRI Software will allow Angus Systems to tap into a deep pool of talent, enhanced spending capabilities for development and a wide customer base to cross-sell its products into
- With market-leading capabilities across facilities management and operations management in the commercial real estate space, Angus Systems has secured itself as one of the leading providers of real estate software solutions
- New capabilities in areas such as access control, visitor management and tenant experience will continue to drive growth for Angus and MRI moving forward
- Shea & Company served as the exclusive financial advisor to Angus Systems

Shea & Company Overview Case Study: Berkshire Partners' Acquisition of Tango Analytics

Transaction Notes & Rationale

Transaction Highlights

- Tango Analytics, a leading provider of cloud-based integrated workplace management software (IWMS) and store lifecycle management (SLM), has agreed to an equity investment from Berkshire Partners
- **Engagement:** Shea & Company was engaged to evaluate and solicit interest from a select set of financial sponsors and strategic acquirers
- Sector: Real Estate and Facilities Lifecycle Management
- Shea & Company Role: Exclusive financial advisor to Tango Analytics and Frontier Growth

has received an equity investment from

Berkshire Partners

Shea & Company served as the exclusive financial advisor to Tango Analytics and Frontier Growth



Tango Analytics Profile

- Tango offers an end-to-end solution encompassing site selection, project management, lease & accounting, facilities maintenance, and space management
- Tango began as a CRE consulting firm and released their first software product two years later; Tango has since been reimagining and releasing industry-leading IWMS and SLM applications
- The Company has partnered with more than 1,000 leading brands, and its cloud-based SaaS and mobile solution is used across 140 countries by companies ranging from those with a few dozen locations to large global brands with more than 40,000 locations
- Founded in 2008, Tango is headquartered in Dallas, TX

Berkshire Partners Profile

- Berkshire Partners, has 35 years of investment history and Berkshire Private Equity has made more than 135 private equity investments since its inception and has a strong history of partnering with Management Teams to grow the companies in which it invests
- The group has raised \$20Bn+ over 10 funds, with their latest (Fund X) being \$5.8Bn
- The group invests in a wide range of companies in different stages and industries via buyouts or management recapitalizations, partial recapitalizations, growth capital and public securities
- Berkshire Partners is a leading investment firm headquartered in Boston, MA
- Combining leading-edge technology, adaptability, constant innovation and simplicity, Tango's real estate and facilities solutions are built for today's evolving realities
- "In a post-COVID world, active management of real estate and facilities is more important than ever, and companies require solutions to help them stay in sync with a dynamic environment. Given Tango's strong market share and the unique solutions it provides to an array of blue-chip customers around the world, we view Tango to be a disruptive innovator that has significant potential to drive further value." Jon Nuger (Principal, Berkshire Partners)
- "In addition to their experience in investing across the technology and software ecosystems, the Berkshire team has helped companies accelerate growth strategies to the benefit of all stakeholders. This capital will play a pivotal role in unlocking the next chapter of our growth story as we seek to take Tango to the next level. We are honored to welcome Berkshire as an investor and look forward to benefiting from the insights of their investment and portfolio support professionals." – Pranav Tyagi (Chief Executive Officer, Tango Analytics)
- "We have tremendous confidence in Tango's Team and products, and we look forward to continuing our partnership and supporting their next stage of growth" — Andrew Linder (Co-Founder & Partner, Frontier Growth)
- The funding will help extend Tango's leadership position in the market and accelerate both U.S. and international growth
- With market-leading capabilities across predictive analytics, transactions, projects, lease, space, and reservations delivered in a true-multi-tenant cloud architecture with a single code base—Tango is poised for continued growth in today's dynamic PropTech marketplace
- Frontier Growth, a leading investment firm who previously held a minority share in Tango, will remain a minority investor in the entity
- Shea & Company served as the exclusive financial advisor to Tango Analytics and Frontier Growth

Shea & Company Overview Case Study: Hg's Acquisition of Prophix

Transaction Highlights

- Sector: Corporate Performance Management
- Engagement: Shea & Company was engaged to facilitate a majority sale of Prophix
- Shea & Company Role: Exclusive financial advisor to Prophix

Prophix Profile

- Prophix is the leading mid-market CPM (Corporate Performance Management) platform
- Prophix's software allows organizations to improve their financial reporting capabilities, while also standardizing and streamlining the budgeting process to generate significant ROI through a faster time to close, reduction in budgeting errors and an ability to reforecast in a more agile way
- Prophix was founded in 1987 and headquartered in Ontario, Canada; the company was majority-owned by the founders and management

Hg Profile

- Hg is a leading investor in software and services, focused on backing businesses that change how we all do business
- Hg has over \$30 billion in funds under management, with an investment team of over 140 professionals, plus a portfolio team of more than 30 operators, providing practical support to help their businesses realize their growth ambitions
- Hg is based in London, Munich and New York with a portfolio worth over \$50 billion aggregate enterprise value



has received an investment from



Shea & Company served as the exclusive financial advisor to Prophix

Transaction Notes & Rationale



- The Hg investment will help further accelerate and scale Prophix's growth and fund further development of its product capabilities
- "Prophix sits right at the heart of a universe that we have been investing in for almost two decades. This means that we recognize high-quality when we see it and Prophix falls firmly into this category. Prophix is a great business run by an impressive team. They have created a best-in-class product that serves a very satisfied customer base, with huge runway for further growth. We're really excited about joining the team." Jonathan Boyes (Partner, Hg)
- "We see significant growth opportunity from the continued adoption of CPM software by mid-market organizations, as the need for real-time financial information and the ability to budget & reforecast in a more agile way becomes increasingly important. Prophix is positioned incredibly well to benefit from this trend, which is a testament to the successful efforts of Paul, Alok and the rest of the Prophix team. We look forward to partnering with Alok and his team to help the company continue to realize its future growth potential." Ben Meyer (Partner and Co-Lead of Hg's New York Team, Hg)
- "This is a really momentous announcement for the team at Prophix and we warmly welcome Hg as a key strategic partner today. It has been an incredible journey to date, and I am so grateful to the enormous talent that has seen us get to this stage. Together with Hg we will move forward with an unstoppable team and a very bright future for the business." Paul Barber (Founder and Executive Chairman, Prophix)
- "Our journey so far has shown us that there is still so much to play for in our industry. We have significant ambitions for the business and Hg's investment and operational experience in software will help us reach these goals. We will look to serve our customers better than ever before, as we invest further in our sales and marketing functions, further our R&D capabilities, accelerate our transition to the cloud and look to scale our business across several regions, including in Europe. Hg has successfully helped businesses to accomplish these goals many times over and we're excited to tap into some of this experience to unlock our full potential." Alok Ajmera (CEO, Prophix)
- Shea & Company served as the exclusive financial advisor to Prophix

Shea & Company Overview Case Study: Goldman Sachs West Street Capital Partners' Investment in InhabitIQ

Transaction Highlights

- InhabitIQ, a leading global provider of software and software-enabled payments solutions for the residential, short-term rental and commercial real estate industries, has agreed to a strategic investment from Goldman Sachs West Street Partners
- Engagement: Shea & Company was engaged to evaluate and solicit interest from a select set of financial sponsors and strategic acquirers
- Sector: Real estate property management software solutions
- Shea & Company Role: Exclusive financial advisor to InhabitIQ and its Board of Directors

InhabitIQ Profile

Transaction Notes & Rationale

- InhabitIQ is a leading provider of accounting & operations, leasing & marketing, compliance, payments and insurance software solutions to the residential, short-term rental and commercial real estate markets in North America and Europe
- Rebranded after the merger of Property Brands and Vacation Brands, Inhabit IQ is a portfolio company of Insight Partners, Providence Strategic Growth and Greater Sum Ventures
- Founded in 2016 as Property Brands, InhabitIQ is headquartered in Knoxville, TN with additional offices in North America and Europe

Goldman Sachs West Street Capital Partners Profile

- Goldman Sachs West Street Capital Partners is the private equity fund within the Merchant Banking Division of Goldman Sachs, which invests in private equity, debt and real estate
- The group has raised \$40Bn+ over 7 funds, with their latest (Fund VII) being \$7Bn
- The group invests in a wide range of companies in different stages and industries via both growth equity and leveraged buyouts
- Goldman Sachs is a global investment bank headquartered in New York, NY and has offices around the world

Opiniologic a portfolio company of ENERGINATION CONTINUES Ans received a strategic investment from Goldman Shea & Company served as the exclusive financial advisor to InhabitIQ and its Board of Directors Shea Company

- Goldman Sachs will join existing investors Insight Partners, Greater Sum Ventures and PSG as institutional shareholders in Inhabit IQ
- "We're gratified by Goldman Sachs' show of confidence and look forward to working with this experienced team to grow our solutions portfolio. Inhabit continues its track record of strong performance even amid today's uncertain environment. We believe in the future of the property and vacation management industries and will help these businesses thrive by addressing their critical technology needs" Lisa Stinnett (CEO, InhabitIQ)
- The funding will provide additional capital that will enable Inhabit IQ to increase its investment in innovation, accelerate its growth and continue its acquisition strategy. The Company will continue to be led by CEO Lisa Stinnett and the current management team.
- "Inhabit IQ is a leader in the fast-growing property management software market, and we have been very impressed with the platform that Lisa and the Inhabit IQ management team have built. We look forward to supporting the management team in the next phase of their evolution." Anthony Arnold (Managing Director, Goldman Sachs)
- "The real estate sector is still early in its digitization journey and Inhabit IQ provides a unique value proposition to the rental management industry. We look forward to helping deliver the resources of the Goldman Sachs platform, including our deep institutional experience in real estate, to further accelerate the Company's growth trajectory." Matthew Popper (Managing Director, Goldman Sachs)
- Shea & Company served as the exclusive financial advisor to InhabitIQ and its owners Insight Partners, Providence Strategic Growth and Greater Sum Ventures



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Market Segmentation

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Construction Industry Subsectors Construction Industry Subsectors

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The four key types of construction include residential, commercial, industrial and heavy civil / infrastructure; this covers nearly every construction project within the industry, as the type of construction project often refers to the actual facility being constructed.

The overlapping of subsectors for major p			JDN Technology Group	NEMETSCHE		Trimble
			G D M II Group	GROUP		
Building Construction		Industria	l Construction		Heavy Civil Co	nstruction
Overview		0\	verview		Overvie	ew .
Buildings construction, further split into re and non-residential / commercial, adds st to areas of land Residential buildings built as primary dwe this includes single family homes, detache condominiums, townhouses, triplex / dup housing cooperatives Non-Residential / Commercial Building projects consisting of business st such as offices, warehouses, retail centers stores; medium-scale projects may involve remodeling, expanding and restructuring to business buildings to maintain prime conc	ructures	 Overview Industrial construction involves businesses that deal with manufacturing goods and other specialized industries Structures that produce commodities for distribution, including factories, microchip centers, power plants and cooling systems Requires more specialized skills / talent, on-site equipment assembly, custom fabrication and large-scale installation Planning and development phase tends to be longer when compared to residential / commercial construction, as each project has its own unique requirements tailored to the demanded industrial structure and client specifications Industrial buildings can be further bucketed into two types: warehouse / distribution centers and 			Heavy civil construction in construction projects inclu waste management, teleca and other large-scale city of community projects Normally encompasses marelated to public infrastructor owned While commercial constru- establishing communication contractor and the client, herefuce the inconvenience and the local community Heavy civil construction me sponsorship of the governme with project timelines that years or longer	iding highways, tu ommunication, air or government ajor structures tha ture – not private ction focuses mor on between the neavy civil attemp or troubles of the ainly falls under the ment / big corpora
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UILDERTREND Chief Architect* 🔞 Com	panyCam	billd 🖉 🗘		nstru	aurigo Find	alcad H
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Construction Market Overview & Trends Market Overview of an Evolving Construction Industry

In a growing and rapidly changing construction industry, software platforms displace antiquated manual and paper-based legacy tools with solutions that address the construction lifecycle end-to-end from design to maintenance

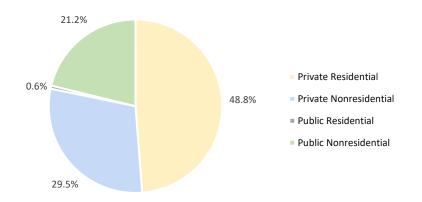
Global Construction Spending (\$Tn)

Underlying construction market is massive, representing \$8Tn+ of annual spend, and is projected to grow 7%+ from 2022 to 2027. This presents an attractive greenfield opportunity for software penetration



2021 U.S. Construction Distribution

With a near even split in residential and commercial (public & private nonresidential), both markets represent key sectors for software implementation



Construction Market Trends

- Rapidly Growing Software Market The global construction and design software market – which includes project design, management & scheduling, field service management, cost accounting, bid management, safety and compliance among others – was valued at USD \$9.6 Bn in 2021 and is expected to expand at a compound annual growth rate (CAGR) of 8.5% from 2022 to 2030
- COVID Impact on Project Demand Construction spending has increased in private sector projects by 40.8% between 2020 and 2022, driven by strong demand as builders shy away from public sector projects due to the volatility of raw material costs and the rigid pricing nature of won contracts.
- Infrastructure Leading the Charge Infrastructure subsectors, driven by large scale transportation and power projects, are set to lead growth in the construction industry with expected growth rates of 20.1% from 2021 to 2022 10.9% from 2022 to 2023
- Disrupted Supply Chains Global supply chain disruptions and rising commodity prices have contributed to rising U.S. construction costs, which have rose 17.5% in 2021 alone, catalyzing emphasis on cost reduction solutions
- Construction Worker Shortages An industry-wide concern for the lack of skilled workers as 73% of construction firms list worker shortages as a top concern, necessitating increased worker efficiency
- Green Construction Customers seek construction companies that use green building techniques to receive substantial tax credits and provide relief from rising utility prices nationwide, with average electricity prices up 7.5% since last year

Construction Market Overview & Trends Residential Construction Market

While rising interest rates cool demand for new residential starts, interest rises in addressing supply pain points through cost effective solutions such as modular construction to address the U.S housing deficit

Market Trends

Renovations Drive Spending Growth



- Suburban homeowners, fueled by the red-hot seller's market in 2021 from work-from-home migrations, have spurred investment in home improvement projects to drive value
- Private residential construction spending is up 14%, driven primarily by a 38.3% increase in renovation spending

Adoption of Modular Construction Tools

- Modular construction is quickly gaining traction as the most optimal solution to the estimated 3.8M unit shortage in the U.S. housing stock
- The heavy use of Building Information Modeling, AR/VR utilization and project management software presents an attractive area for Construction Software penetration
- Moderate assumptions value the modular construction market at \$130B in the U.S. and Europe by 2030, a market that will be touched end-to-end by construction software

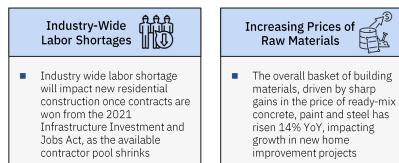
Continued Migration to the U.S. South

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- Southern cities and suburbs continue to see an influx of migration from expensive northeastern and westcoast residential markets, driven by relocations of major employers and lower state taxes
- Residential construction in the South outpaces other geographies to meet this demand, with current backlog of starts expected to keep construction activity steady

Key Challenges

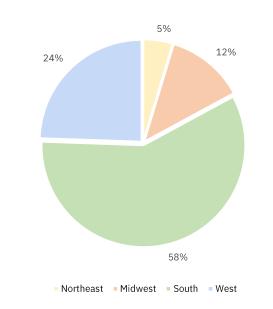


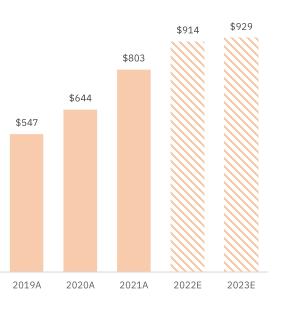
The pandemic froze homebuilding construction, then created supply and labor shortages leading to delivery delay, and is now stalling new construction due to prohibitive interest rates



New House Starts by Geography July 2022 YTD





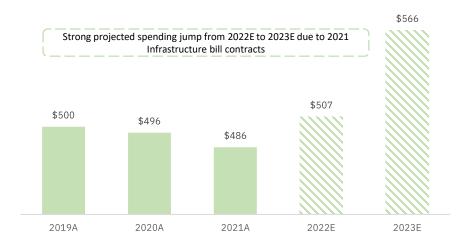


Construction Market Overview & Trends Commercial Construction Market

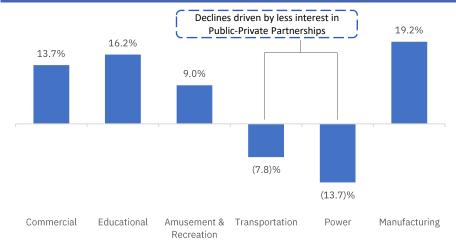
Despite price increases in building materials, as well as a skilled labor shortage, outlook remains positive due to recent federal funding measures to increase public – private partnerships as well as continuing implementation of productivity increasing software



Commercial Construction Spending (\$Bn)



Commercial Construction Spending Changes y/y 2021-2022

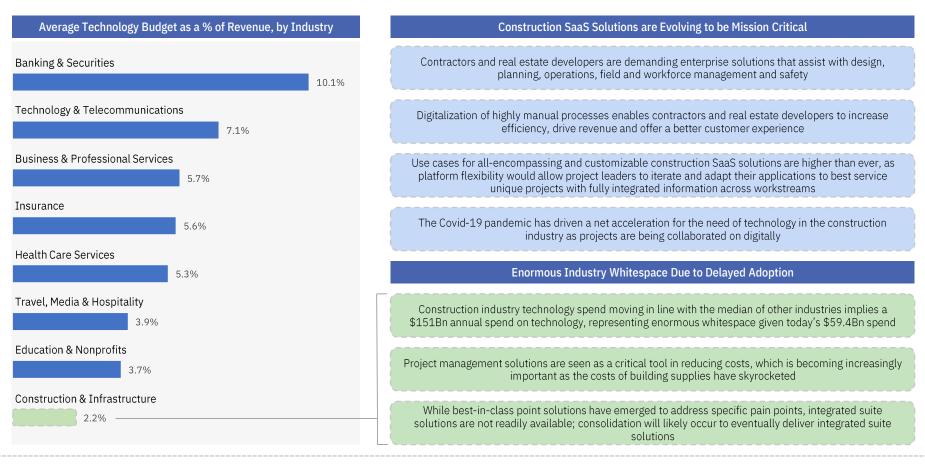


Construction Market Overview & Trends Digitization of a Growing Construction Industry

Historical inhibitors to technology adoption are being broken down as the efficiency gains and improvements to customer experience from technology adoption addressing modern pain points outweigh the investment costs and risk of implementing new systems

Construction is Behind Other Vertical Markets in Adopting SaaS Solutions

- According to Deloitte roughly 2% of construction revenue is spent on technology, making it one of the least digitized industries
- The construction market remains technologically underserved despite its enormous size, as 35.9% of employees at construction firms are hesitant to try new technology
- Construction companies are beginning to break adoption barriers with the U.S. government allocating \$100MM to construction technology over the next 5 years as a part of the Infrastructure Investment and Jobs Act, the construction software market has followed suite
- In 2021, 53% of small construction businesses implemented new construction project management software



Construction Market Overview & Trends Technologies Driving Efficiency and Innovation in Construction Space

Artificial Intelligence

- AI technology can autonomously garner insights, inform decision making and drive efficiency
- Machine learning and AI enrich project planning and scheduling, workplace monitoring, data consolidation and analytics
- Recently, it has been used to render digital copies of buildings for predictive maintenance and building improvements

Building Information Modeling & Digital Twins

- Constructors are incorporating digital representations of physical and functional aspects of a building to improve collaboration during the designing and constructing phases of projects
- Digital twins create virtual models of buildings using advanced technologies to simulate infrastructure, granting access to dynamic models while on construction site front-lines

Augmented and Virtual Reality

- Augmented and virtual reality technologies are being adopted to play out simulations in real time of projects with different constraints such as project timelines, raw material / equipment supply chains and worker bandwidth
- Augmented and virtual reality has become paramount for training purposes, planning arrangements and error detection, driving successful construction outcomes and reducing costly liabilities

Green Technology

- Sustainability has become a major focus across all types of construction
- Constructors are building environmentally conscious buildings using environmentally safe practices in response to increased demand from customers
- Green technologies include zero-energy construction and smart construction tools that focus on energy optimization, minimal waste and net-zero carbon emitting buildings

Drones and Robotics

- Drones and robotics are being employed to improve safety, drive better results and enable virtual reality
- Robots significantly improve safety and security on construction sites
- Innovative hardware plays an integral role in implementing new AI and virtual realities

35%

Expected annual growth of AI in the construction industry from 2018 to 2023

83%

BIM users who experienced positive ROIs

77%

Expected compound annual growth rate of implemented AR / VR from 2019 to 2023

87%

Construction firms reporting Green Technology being a driving force for sustainability

239%

2018 growth of drone usage in the construction industry

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Construction Market Overview & Trends Construction Industry Pain Points

Construction managers need software solutions to help address key pain points, drive efficiency and optimize ROI

Construction Operations Pain Points

Data Analysis: 80-90% of recorded data is unstructured or not used for analysis, making it difficult ' to understand the project details and overall progress

Time Overruns: Timing overruns result in increased costs and lower profitability. They are often caused by preventable mistakes including scheduling errors, improper employee management and ill-advised planning



Workplace Safety: The construction industry continues to have one of the most dangerous work environments, leading to unnecessary risks for employees, financial liabilities, higher costs and slower turnarounds



Productivity: Slow growth in productivity can be attributed to outdated technologies and human error, impacting the industry as a whole's bottom-line



Document Management: Inconsistent document formats within the project stakeholder ecosystem leads to delays to due to difficulties in processing information



Poor Communication: The lack of proper real-time and project-term communication has slowed down construction processes, increased risk to workers and driven low customer satisfaction



Equipment and Material Tracking: Construction equipment and material theft, not inclusive of tools, from job sites account for \$300M to \$1Bn in lost PP&E annually

Overarching Problems

Construction inefficiencies overlap and snowball into interconnected issues: Subpar technology and lacking data analysis methods lead to underlying industry issues

- Inadequate technologies lead to worker inefficiencies
- Outdated management software increases project timelines and costs
- Obsolete safety technologies increase risk, time and costs

Construction Solutions

Construction software is evolving to boost productivity, improve design capabilities, and ensure the safety of construction workers

- Digitization of manual/paper-based processes drives efficiency and reduces errors
- Software enhances communication and decreases wasted time
- Drones create safer work environments, provide updated data and monitor work and equipment

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Construction Software

Construction Management Suites

Construction software enables projects in an industry dominated by delays, low digitization and cost overruns to increase productivity, reduce administrative burdens and stick to cost projections; full-suite solutions provide flexible platforms that offer capabilities across both project management and ERP, with centralized management and platform wide data syncing

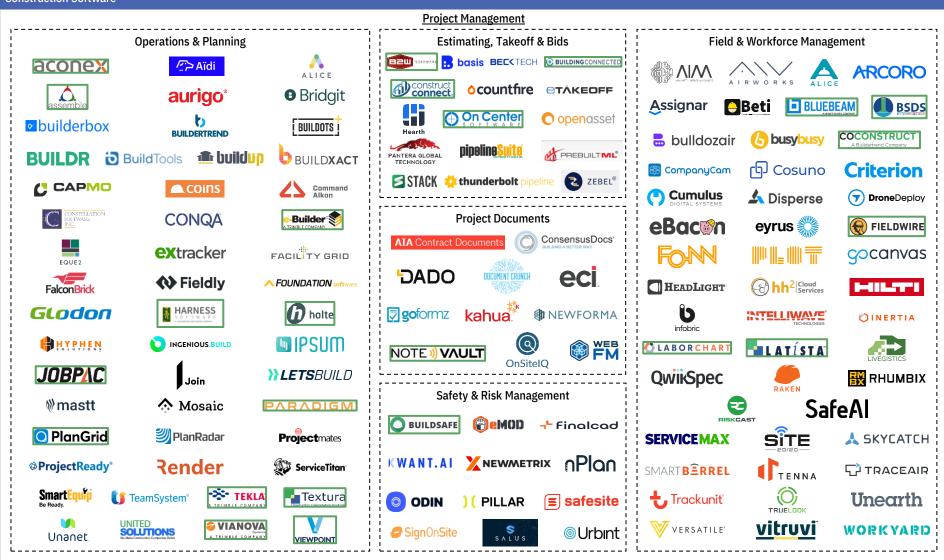
Design & AR / VR	ERP					
Augmented Reality (AR) provides architects with the ability to digitally interact with their projects, while Virtual Reality (VR) enables planners to test and simulate situational circumstances steps ahead of the design process by immersing them in virtual environments characterized by pre- designed building models	CRM Client relationship management enables construction businesses to manage relationships with prospects, clients, suppliers, contractors and partners	Legal & Compliance Legal & compliance tools streamline construction environment health and safety (EHS) workflow management, enabling compliance with regulatory requirements				
Analytics & BIM Analytics and Building Information Modelling (BIM) enables project planners to view 3D models of buildings, attack nuanced design						
clashes and optimize decision making during initial planning stages	Finance & Accounting	Payments & Invoicing				
	Construction accounting expands general accounting features by augmenting software with modules to track job specific costs and revenues, manage payroll, and handle billing and procurement	Payments & invoicing solutions help general contractors, owners and subcontractors simplify and automate the draw process, a detailed payment plan for the construction project				

Construction Software Construction Management Suites Construction Focused Diversified Software Acquirers SUB Bentley Sussenut S FORTIVE GORDIAN CMIC AUTODESK CAUSEWAY LICSS **JDN** Technology Group NEMETSCHEK HEXAGON ORACLE SOCO INEIGHT 🛞 infotech GROUP Sogelink[>] RODER REDTEAM Trimble SIEMENS PROCORE Design & AR / VR ERP · A K U L A R · chaos CRM Legal & Compliance HOLO BUILDER Chief Architect MODUMATE ACCULYNX 😽 COSENTIAL Evercommerce CIMPLY365 (BASIC<mark>S</mark>A SkyCiv 🕥 SketchUp **kn**öwify houzz SPACEMAKER **5 SOLID**WORKS FINISHLINE /. monday.com [°]MarketSharp Nutshell **†** Analytics & BIM Striven veriforce 📑 PROKEEP SafetyCulture TopBuilder Finance & Accounting **Payments & Invoicing** CUPIX DIGIBILT DODGE Dusty Robotics =/ eagleview FARO 24 ORE Acumatica billd. brig built **Navidxchange BLUETAPE** TOCUS GRAITEC INSPACE Matterport OPENSPACE CORCON \$ DOXEL EPROMIS **Computer€ase** BuildPay DigiBuild. 考 Explorer flexbase JOBPOWER EQUE 2 SEMA sensat SmartPM[®] **STRUCTION**SIT Flashtract handle JOIST penta **PREMIER** KOJO AND GORILLA NEXUS LEVELSET Ryvit thínkproject 💥 TORIC Rabbet **5** Siteline UMT**360°**

Construction Software

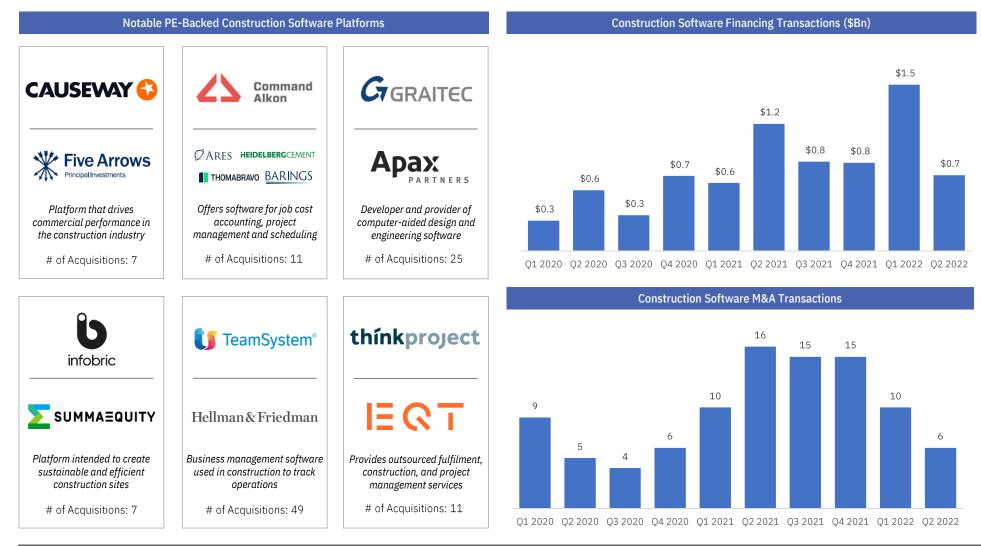
 	Project Management	
 Operations & Planning	Estimating, Takeoff & Bids	Field & Workforce Management
 Create project objectives and track timelines real-time, ensuring that operational logistics run smoothly from initial design to finalized build	Create quick and precise cost projections in the initial phases of project planning, facilitating accurate and efficient takeoff processes for contractors	Mitigate risk through visibility into field assets and operations, using collaboration, automation and cost optimization
	Project Documents	
	Document management solutions automate manual paper processes and store secure information in one place	
	Safety & Risk Management	
	Increase proactivity and responsiveness for safety matters, reducing the risk of on-site accidents by leveraging site inspection tools and information sharing interfaces	

Construction Software



Market Segmentation Current PE-Backed Platforms in Construction Software

Financial Sponsors have recognized the significant opportunity to digitize the construction space and have increased investment substantially over the past decade

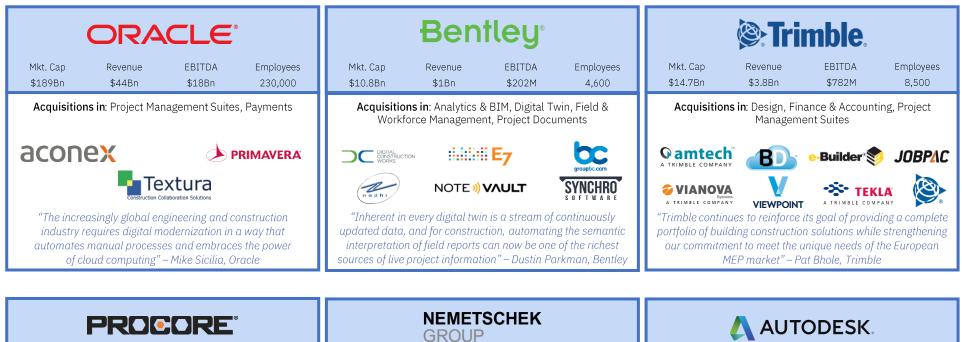


Construction software investor funding in the U.S. reached record levels in 2021 as the aftermath of the pandemic instigated a shift towards offsite production and heavy reliance on virtual tools. As the market compressed years of construction software adoption into the 9-month post-pandemic period, investor activity has boomed in an industry that is still in the early phase of adoption.



Market Segmentation Current Public Strategic Platforms in Construction Software

Construction Software



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Mkt. Cap Revenue EBITDA Employees \$7.8Bn \$610M \$(221)M 3.400		enue EBITDA 53M \$211M	Employees 2,800	Mkt. Cap \$43.4Bn	Revenue \$4.7Bn	EBITDA \$990M	Employees 13,600
Acquisitions in: Project Management Suites		Analytics & BIM, Desi documents	,		ons in: Analytics &		,
		Design System [®] dRofus		assemble ProE	•	DNNECTED 🔘	PlanGrid
"Procore is investing in the future of preconstruction, an increasingly important and impactful part of the construction process" – Tooey Courtemanche, Procore	strategy in the AEC ind position as a leading	ve] been consistent wi lustry and greatly strer provider of Open BIM s 'er, Nemetschek Group	ngthens our global olutions" – Patrik	construction make the ci	connecting project n, creating the clo ritical preconstru e and profitable" -	ud-enabled tool ction phase of a	ls necessary to project more



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Market Segmentation

Sector Deep-Dives: Construction Market

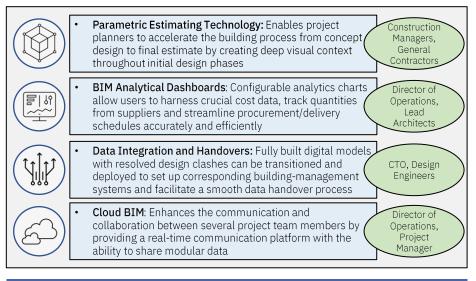
Select Construction Software Companies for Discussion



Sector Deep-Dive: Construction Market Sector Deep Dive: Analytics & BIM

The adoption of Analytics & Building Information Modelling (BIM) is rapidly increasing in the design, construction, and operational maintenance of new building projects; leveraging analytical insights alongside digital models is paving the way for cost-efficient construction with optimal accuracy

Solution Offerings & End Users



Emerging Trends & Themes

- Optimized Project Planning: As owners and operators adopt interactive digital simulations with precise transparency on all components of a design, analytical insights to these models help accelerate decision-making
- Preemptive Cost Savings: BIM Analytics tools allow project owners to identify geometric clash relationships early on in a project's design phase, minimizing costly on-site delays
- - Enhanced Design Quality: BIM software including model-driven simulations and 3D spatial analysis technology is a key driver for peak design quality and structural integrity, leading to the completion of high-performance buildings, more profitable projects and increased on-site safety
 - Digital Twins: Companies are beginning to anchor office IOT and smart building systems using data-driven digital twin models

Recent Transactions

Date	Acquirer(s) / Investor(s)	Target	EV	EV / LTM Rev
04/12/22	Bregal Unternehmerkapital	SERA	n/a	n/a
06/07/21	FARO	HOLO BUILDER	\$34M	8.5x
11/17/20	AUTODESK	SPACEMAKER	\$240M	n/a
08/28/19		U.S. CAD a vinzere company	\$44M	n/a
07/09/18	AUTODESK		\$94M	n/a

Landscape

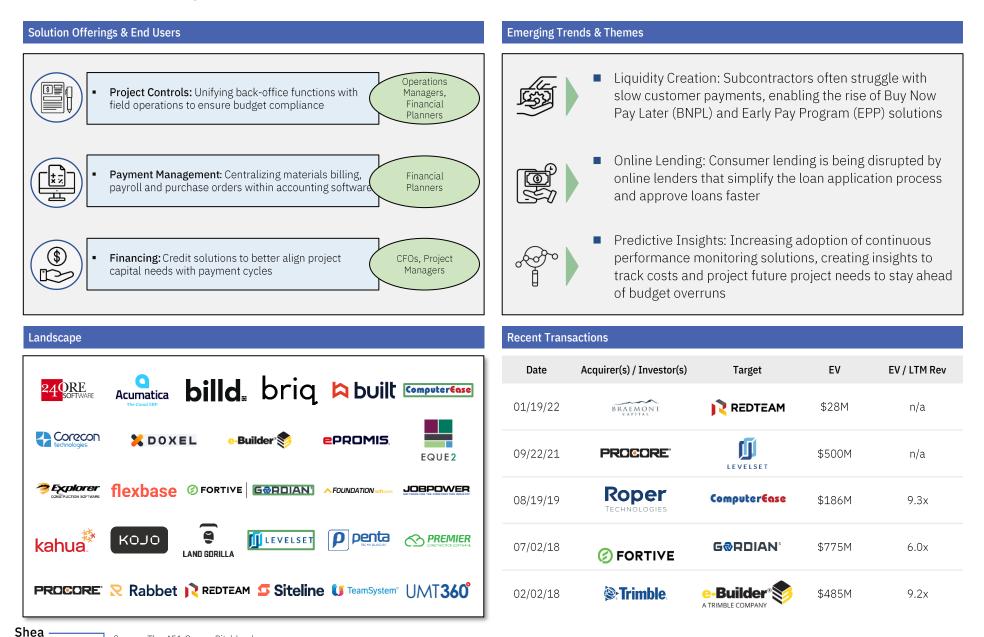
&Company



Acquired / Operating Subsidiary

Sector Deep-Dive: Construction Market Sector Deep Dive: Finance & Accounting

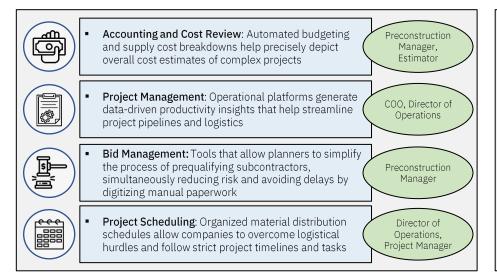
As a capital-intensive industry that requires both a high initial outlay as well as steady access to capital, construction projects require a high degree of enterprise resource planning (ERP) and must monitor cash flows carefully in order to prevent project delays and cancellation



Sector Deep-Dive: Construction Market Sector Deep Dive: Operations & Planning

Construction projects are notorious for running over budget and facing delays due to subpar planning and execution; addressing pain points around operations and planning is essential to modernizing the construction industry and driving growth and profitability for companies in the sector

Solution Offerings & End Users



Emerging Trends & Themes

 Automated Accounting: Companies are beginning to automate accounting activities to reduce the number of human errors and provide accurate budgets and financial forecasts for projects



- Integration of Artificial Intelligence: Constructors have rapidly increased the use of AI to automate human tasks and receive performance insights, creating strategies based on collected data
- Increase in Pre-Fabrication and Modular Construction: Advanced planning supports productive off-site manufacturing of construction elements that are customized to match the specific requirements of a project's complexity

Landscape

aconex	<i>I</i>	•		aurigo	Bentley	• Bridgit
brig	■builderbox		BUILDOTS	BUILDR	BuildTools	💼 buildup
	CAUSEWAY 😜		Command Alkon	CONSTELLATION SOFTWARE INC.		EQUE2
ex tracker	FACILITY GRID	FalconBrick	 Fieldly		Glodon	
HCSS	b holte	HYPHEN	INEIGHT 🛞		IPSUM	JOBPAC
Join	}}LETS BUILD	∛ mastt	☆ Mosaic	NEMETSCHEK GROUP	ORACLE	PARADIGM
PlanGrid	劉 PlanRadar	PROCORE	Project mates	ProjectReady*	REDTEAM	Render
ServiceTitan	SIEMENS	SmartEquip Be Ready.	*** TEKLA	Textura	Trimble	Vnanet.
UNITED SOLUTIONS Wis Make Convolution Comparison Bacher		VIEWPOINT				

Recent Transactions

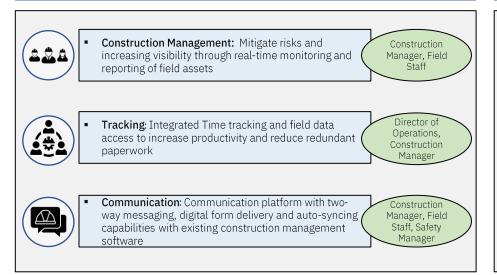
Date	Acquirer(s) / Investor(s)	Target	EV	EV / LTM Rev
05/01/22		UNITED SOLUTIONS	n/a	n/a
06/29/21	FirstSource	PARADIGM	\$450M	9.0x
12/11/20	WestBridge	EQUE	\$61M	3.1x
08/31/20	THOMABRAVO		n/a	n/a
12/20/19	Apax Partners	GRAITEC	\$261	21.1x

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Sector Deep-Dive: Construction Market Sector Deep Dive: Field & Workforce Management

The construction process is complex and dangerous; it includes the collaboration of many professionals possessing different skillsets; being able to effectively manage a jobsite and workforce is imperative to maintaining safety standards and improving work efficiency

Solution Offerings & End Users



Emerging Trends & Themes

 Cost optimization: Construction labor accounts for ~40% of project costs, having a proper workforce management system in place is a key part of success as a contractor



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- Automation: Coordinating jobsites and the workforce using advanced data and analytics driven automation has become central in optimizing efficiency
- Collaboration: Developers are demanding software to increase collaboration among the workforce and on the jobsite. A recent Procore survey found 75% of respondents believe there will be an increase in the use of collaborative construction technology

Landscape

ALICE	ARCORO	Assignar	AUTODESK	Bentley	BLUEBEAM
BSDS	🖶 bulldozair	busybusy	CAUSEWAY 😜	CMIC	COCONSTRUCT A Buildertrend Company
🚱 CompanyCam	ြာ Cosuno	Criterion		🛓 Disperse	eBac@n
eyrus 🎇	FieldChat		FONN	gocanvas	HEADLIGHT
hh ² Cloud Services	HILTH	INEIGHT 🛞	ØINERTIA	b	INTELLIWAVE TEORISIDEES
C LABORCHART		LIVEGISTICS	NEMETSCHEK GROUP	ORACLE	
PROCORE	QwiiSpec	RAKEN	REDTEAM		RISKCAST
SERVICEMAX	SMART BÊRREL	TENNA	🕁 Trackuniť	Trimble	O TRUELOOK
Unearth	VERSATILE'	<u>vitruvi</u>	WORKYARD		

Recent Transactions

Date	Acquirer(s) / Investor(s)	Target	EV	EV / LTM Rev
11/16/21	HILTH		\$300M	n/a
10/21/21	PROCORE	LABORCHART	\$76M	n/a
06/29/21	Five Arrows Principal Investments	CAUSEWAY 🔂	n/a	n/a
02/24/21	BUILDERTREND	COCONSTRUCT	n/a	n/a
12/03/20	BainCapital TECH OPPORTUNITIES HGGC	BUILDERTREND	n/a	n/a

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Source: The 451 Group, Pitchbook Acquired / Operating Subsidiary

Sector Deep-Dive: Construction Market Notable Transactions in Construction Software

4&A					
	June 2021	September	2021 No	ovember 2021	October 2022
Target	PARADIGM		mmand con	FIELDWIRE	
Acquirer	Builders FirstSource	HEIDELBERG	CEMENT		Drone Deploy
Enterprise Value	\$450M	\$765M	*	\$300M	n/a
Target Summary	Paradigm offers ERP optimization, h building and training services to bu contractors and manufacturer	lders, batching, dispatching, d	esign production manage tasks,		ctionSite provides interior and grour eality capture to empower project tracking and management
apital Raises					
	July 2021	August 2021	September 2021	January 2022	May 2022
Target	VERSATILE"	☆ Mosaic	쳐 built	OPENSPACE	BUILDOTS
Investors	TIGERGLOBAL ENTRÉE CAPITAL	STATE andreessen. NOTOWITZ FOUNDERS FUND	Brookfield 9 Y A R D S c A P I T A L W TCV HIGHSAGE ENTURES	BlackRock. PFP ALKEON Mathematical Action	DE TECH YENTERES VIOLA GROWTH
Round / Amount R	aised Series B / \$80M	Series B / \$44M	Series D / \$125M	Series D / \$102M	Series C / \$60M
Target Summary	Versatile is an onsite data collection platform that optimizes construction productivity	Mosaic is a tech enabled general contracting platform, helping developers build at scale	Built Technologies provides loan management software to accelerate construction processes	Openspace's software increases job site data capture efficiency and collaboration	Buildots digitizes construction sites, resulting in better management and error elimination

* Indicates a Minority Sale

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Sector Deep-Dive: Construction Market Precedent Transactions: Construction Software

(\$ millions)

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			-	EV / Reve	enue		EV / EE	BITDA	EBITDA
Ann. date	Target	Acquirer	value	Current yr	Forward yr	Growth %	Current yr	Forward yr	Margin %
11/17/22	ServiceMax	РТС	\$1,460	-	-	-	-	-	-
05/26/22	BIT Software	Entersoft	\$4	-	-	-	12.5x	-	-
01/19/22	RedTeam	Braemont Capital	\$28	-	-	-	-	-	-
11/16/21	Power Line	Bentley	\$696	-	-	-	-	-	-
11/16/21	FieldWire	Hilti	\$300	-	-	-	-	-	-
10/22/21	LaborChart	Procore Technologies	\$76	-	-	-	-	-	-
09/27/21	SmartEquip	Ritchie Bros. Auctioneers	\$175	-	-	-	-	-	-
09/22/21	Levelset	Procore Technologies	\$500	-	-	-	-	-	-
06/29/21	Paradigm	Builders Firstsource	\$450	9.0x	-	-	-	-	-
06/07/21	HoloBuilder	FARO Technologies	\$34	8.5x	-	-	-	-	-
12/11/20	Eque2	Westbridge Capital Partners	\$61	3.1x	-	-	-	-	-
11/17/20	Spacemaker AI	Autodesk	\$240	-	-	-	-	-	-
03/31/20	Command Alkon	Thoma Bravo	\$500 [b]	-	-	-	14.3x [b	- [-
02/13/20	RIB Software	Schneider Electric	\$1,528 [b]	-	-	-	-	-	-
12/20/19	Graitec Group	Apax Partners	\$261	21.1x	-	7%	nm	-	34%
08/28/19	US CAD	RIB Software	\$44	-	1.3x	-	-	5.3x	-
06/06/19	Building Systems Design	RIB Software	\$70	-	5.0x	-	-	-	-
12/20/18	BuildingConnected	Autodesk	\$275 [b]	11.0x [b]	-	-	-	-	-
11/20/18	PlanGrid	Autodesk	\$875	12.5x [b]	8.8x	50%	-	-	-
07/09/18	Assemble Systems	Autodesk	\$94	-	-	-	-	-	-
07/02/18	Gordian Group	Fortive	\$775	6.0x	-	-	-	-	-
04/23/18	Viewpoint	Trimble	\$1,200	-	6.0x	-	-	-	-
02/02/18	e-Builder	Trimble	\$485	9.2x	-	20%	-	-	-
12/17/17	Aconex	Oracle	\$1,200	7.9x	6.7x	35%	nm	-	5%
10/31/16	ConstructConnect	Roper Technologies	\$632	-	-	-	-	-	-
07/27/15	On Center Software	Roper Technologies	\$157	-	-	-	-	-	-
		Mean	\$466.2	9.8x	5.6x	28%	13.4x	5.3x	19%
		Median	\$287.5	9.0x	6.0x	27%	13.4x	5.3x	19%

Agenda

Shea & Company Firm Overview

Construction Market Overview & Trends

Market Segmentation

Sector Deep-Dives: Construction Market

Select Construction Software Companies for Discussion



Select Construction Software Companies for Discussion Market Leaders Driving the Adoption of Software in the Construction Industry

	Bridgit	BUILDERTREND	built
HQ	 Kitchener, Ontario, Canada 	 Omaha, NE, USA 	 Nashville, TN, USA
Product Portfolio	 Developer of a workforce management platform that allows builders to manage workload tasks efficiently 	 Developer of software that combines project scheduling and management, customer management and service management 	 Developer of construction lending software designed to mitigate risk and simplify loan construction management with real-time visibility
Deployment Type	 SaaS 	 SaaS 	 SaaS
Strengths	Real time updatesNext generation forecastingSeamlessly connected to tech stack	Large repository of featuresReal time and centralized dataSuperior communication	Ease of use from simplicityAbility to request draws efficientlyTransparency between parties
Market Focus	 Operations & Planning 	 Operations & Planning 	 Finance & Accounting
Employee Count	• 107	• 773	• 463
Key Executives	Mallorie Brodie (Co-founder & CEO)Lauren Lake (Co-founder & COO)	Dan Houghton (Co-founder & CEO)David Hinderaker (CFO)	Chase Gilbert (CEO)Bob Elliot (CRO)
Investors / Acquirers	Camber CreekHyde Park Venture PartnersStorm Ventures	Bain Capital Tech OpportunitiesHGGCSerent Capital	9Yards CapitalBrookfield GrowthTCV
Last Financing	 Raised \$24MM CAD of Series B funding led by Camber Creek and Storm Ventures 	 Received an undisclosed amount of development capital from Serent Capital (February 2021) 	 Raised \$125MM of Series D funding led by TCV (September 2021)

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Select Construction Software Companies for Discussion

Market Leaders Driving the Adoption of Software in the Construction Industry

	CAUSEWAY 🛟	CSS	
HQ	 England, UK 	 Sugar Land, TX 	 Dallas, TX, USA
Product Portfolio	 Developer of software that assists in every stage of construction planning and operations, helping improve commercial performance 	 Developer of a full-suite project management platform, helping construction companies streamline workflows and operations 	 Developer that assists in scheduling, procurement and collaboration solutions, leading to better operational control
Deployment Type	 SaaS 	 SaaS 	 SaaS
Strengths	Caters to a variety of professionalsReal time and accurate dataCentralized cloud platform	 Broad product offering Pre-Construction to Safety Management Numerous Data Integrations 	CollaborativeStreamlines supply chainDynamic integrations
Market Focus	 Construction Management Suite 	Construction Management Suite	 Operations & Planning
Employee Count	• 363	• 501	• 172
Key Executives	Philip Brown (Founder & CEO)Mark Howell (CFO)	Steve McGough (President & CEO)Drew Thomas (CFO)	Felix Vasquez (CEO & President)Dan Lanier (Co-CEO & COO)
Investors / Acquirers	 Five Arrows Principal Investments 	 Thoma Bravo 	Brandon PartnersGreyLion CapitalStone Point Capital
Last Financing	 Received £120MM of development capital from Five Arrows Principal Investments (June 2021) 	 The company was acquired by Thoma Bravo through an LBO for an undisclosed amount (November 2021) 	 Received an undisclosed amount of development capital from GreyLion Capital and Stone Point Capital (October 2020)

Source: The 451 Group Source: The 451 Group Note: EV / Revenue multiples greater that 25x and EV / EBITDA multiples greater than 50x are considered to be not meaningful

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OPENSPACE





HQ	 San Francisco, CA, USA 	 Vienna, Austria 	 Dulles, VA, USA
Product Portfolio	 Developer of machine vision designs used in construction that apply artificial intelligence to create digital representations of job sites 	 Developer in document management that records tasks or defects via smartphone or tablet in real time to communicate with clients 	 Developer of ERP and CRM software for government contracting, construction and architecture that improves efficiency
Deployment Type	 SaaS 	 SaaS 	 SaaS
Strengths	Ease of video captureBIM integrationAI powered analytics	Power report customizationUser-friendly interfaceCompatible with or without apps	 Aggressive software update schedule Integrated, end-to-end platform Simple, user-friendly design
Market Focus	 Analytics & BIM 	 Operations & Planning 	 Operations & Planning
Employee Count	• 278	 395 	• 396
Key Executives	Jeevan Kalanithi (CEO)Philip DeCamp (CTO)	Sander Van de Rijdt (Co-CEO)Ibrahim Imam (Co-CEO)	Craig Halliday (CEO)Kent Kelley (CFO)
Investors / Acquirers	BlackRockFischer HomesPSP Partners	GR CapitalInsight PartnersQuadrille Capital	JMI EquityNorthleaf Capital Partners
Last Financing	 Raised \$102MM of Series D funding led by PSP Partners (January 2022) 	 Raised \$70MM of Series B funding led by Insight Partners and Quadrille Capital (January 2022) 	 Received an undisclosed amount of development capital from JMI Equity and Northleaf Capital (June 2019)

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Boston

San Francisco

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