



Digital Twin, Simulation, and Manufacturing Software

M&A Review and Analysis



Alkali Partners
Technology Investment Banking

Digital Twin, Simulation, and Manufacturing Software

Market Analysis

Sector Overview: The engineering, digital twin and simulation software market surpassed €16B+ in 2025 and continues to expand at a 30–40%+ CAGR across key industries. Alkali anticipates sustained strength in the M&A landscape. This will be driven by rapid enterprise adoption of simulation-led design, the accelerating maturity of digital twin platforms, and the transformative impact of AI-enabled predictive modeling. There are abundant examples of generative engineering across manufacturing, infrastructure and industrial operations.



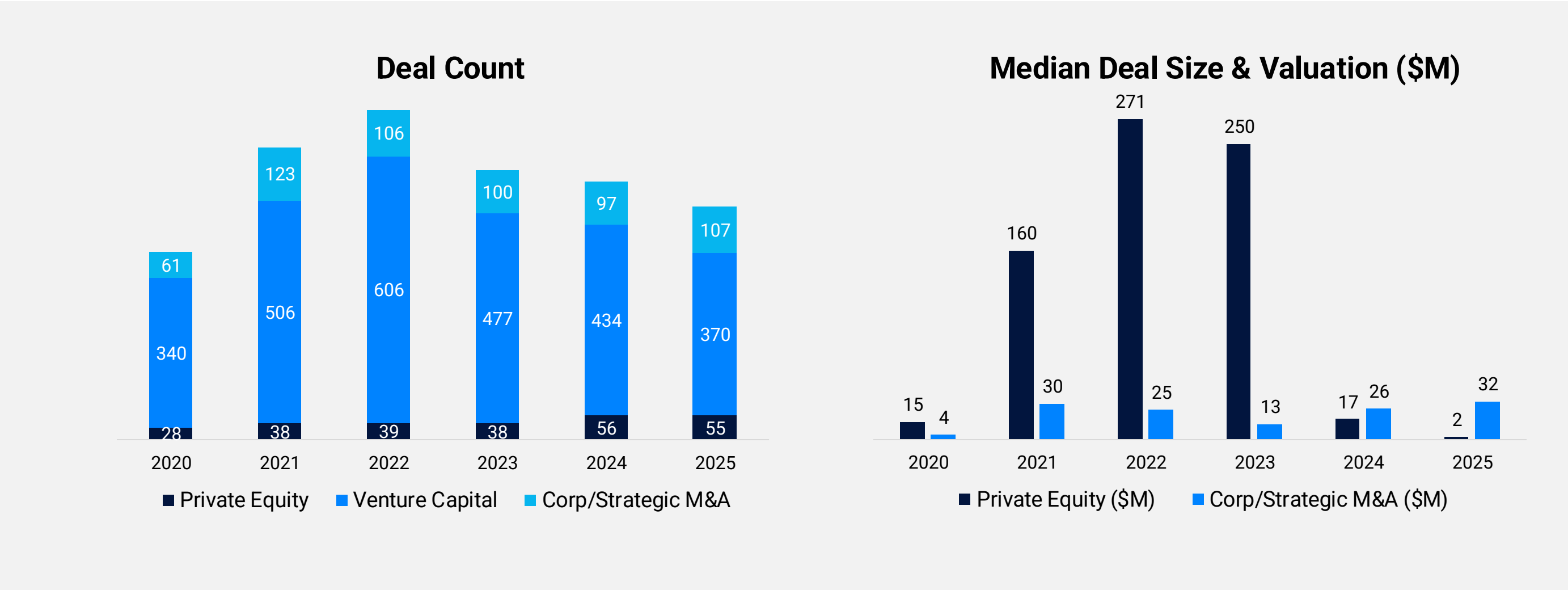
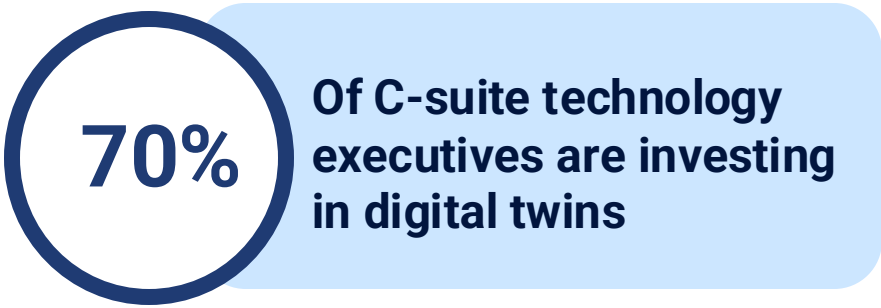
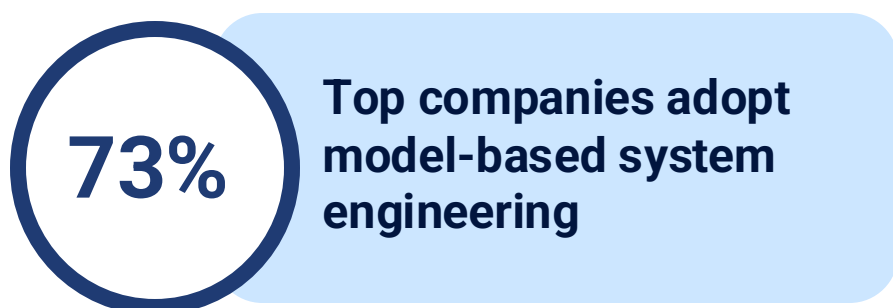
Enterprise Engineering Transformation: Enterprises are scaling digital twin adoption to gain real-time visibility into products, assets and operations, enabling predictive maintenance, and shortening development cycles across industrial environments.



AI-Driven Engineering Automation: Advancements in AI are transforming engineering workflows through predictive modeling, generative design and automated optimization, allowing teams to accelerate simulation throughput, boost accuracy and reduce manual engineering effort.



Sector-Wide Operational Optimization: Manufacturing, aerospace, construction and energy organizations are integrating simulation and digital twin platforms to optimize asset performance, enhance sustainability outcomes and unlock substantial efficiency gains across the full lifecycle.



Sources: Pitchbook, Siemens, McKinsey, Rockwell Automation

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MARKET OVERVIEW

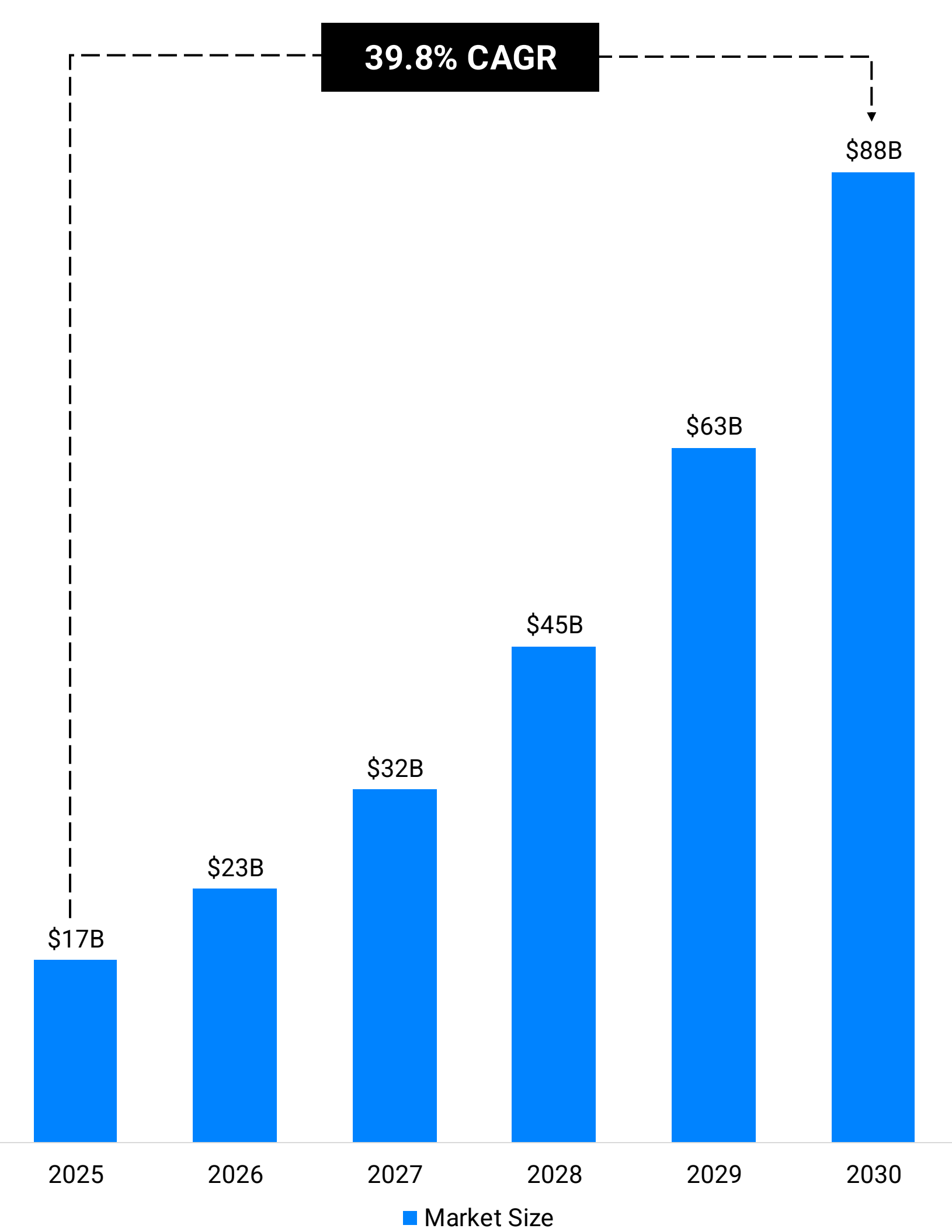
MARKET TAILWINDS

- **Rapid Adoption of Digital Twins and Simulation:** Global momentum behind digital twins and advanced simulation is accelerating as enterprises pursue real time visibility, predictive analytics and faster design cycles. Strong ROI, including double digit efficiency gains and reduced downtime, is driving adoption across manufacturing, aerospace, construction and energy.
- **AI and Cloud Enabling Next Generation Engineering:** The maturation of AI, IoT and cloud native architectures is transforming engineering workflows, enabling more accurate modeling, automated optimization and scalable simulation throughput
- **Industrial Modernization and Sustainability Mandates:** Large scale investments in factory automation, supply chain resilience and sustainability initiatives are increasing demand for engineering, PLM and CAE tools. Governments and enterprises are prioritizing digital infrastructure that supports lifecycle modelling, emissions tracking and operational optimization.

MARKET HEADWINDS

- **High Implementation Costs and Fragmented Legacy Systems:** Despite clear benefits, many organizations face significant upfront investment requirements and integration challenges with ageing OT or IT environments. These constraints can delay deployment timelines and slow broad-based adoption of digital twin and simulation platforms.
- **Regulatory, Data Security and IP Protection Concerns:** Greater interconnectivity introduces heightened risk around cybersecurity, data privacy and protection of proprietary engineering models. Maintaining compliance with sector specific requirements in aerospace, automotive and industrial markets remains complex and resource intensive.
- **Talent Gaps and Interoperability Limitations:** A shortage of specialized engineering and data talent, combined with inconsistent standards across simulation tools and digital twin frameworks, continues to hinder scalability.

Digital Twin and Simulation Market Size Projections (\$B)



Sources: Fortune Business Insights, Hexagon, Capgemini, McKinsey

Platform Expansion Through Transformational M&A

Multi-Billion Dollar Deals Driving Platform Expansion in Digital Twin & Simulation Software

SYNOPSYS®

has acquired

ANSYS

Date: 7/17/2025

Deal Size: \$35B

EV/Revenue: 13.78x

EV/EBITDA: 42x

SIEMENS

has acquired

ALTAIR

Date: 3/26/2025

Deal Size: \$10.6B

EV/Revenue: 14x

EV/EBITDA: 31x

Segment: Simulation, Multi-Physics Modeling, and System-Level Digital Twin Software

Rationale: Synopsys’ \$35B acquisition of Ansys unifies multi-physics simulation, chip-to-system modeling, and AI-enabled digital twin capabilities into a single engineering platform.

The combination integrates Ansys’ leading structural, thermal, and electromagnetic solvers with Synopsys’ silicon design tools, expanding the digital twin envelope from semiconductors to full-engineered systems across automotive, aerospace, and industrial markets.

Industry Outlook: This transaction underscores the growing importance of simulation and digital twins in next-generation product development. The combined platform enhances end-to-end modeling fidelity, enabling earlier design validation and reducing reliance on physical prototypes.

\$400M Annual Cost Savings and Revenue Uplift

29% Premium to Share Price

Segment: Industrial Digital Twin Platforms, CAE, HPC, and Manufacturing Simulation Software

Rationale: Siemens’ acquisition of Altair strengthens its industrial software strategy by integrating Altair’s mechanical simulation, data analytics, multiphysics modeling and HPC capabilities into Siemens’ digital twin and automation stack.

Embedding Altair’s solvers into Siemens Xcelerator enhances system-level modeling accuracy, manufacturing simulation and closed-loop digital twin execution across plant operations and product lifecycles.

Industry Outlook: The deal reflects accelerating consolidation across industrial simulation, manufacturing software and operational digital twin ecosystems. Altair’s leadership in multiphysics, AI-driven optimization and generative simulation enables Siemens to meet rising demand for factory-level digital twins.

\$150M Cost Synergies

\$500M Revenue Synergies

Sources: Pitchbook, Alkali Research, Ansys, Altair, Business Insider, Reuters

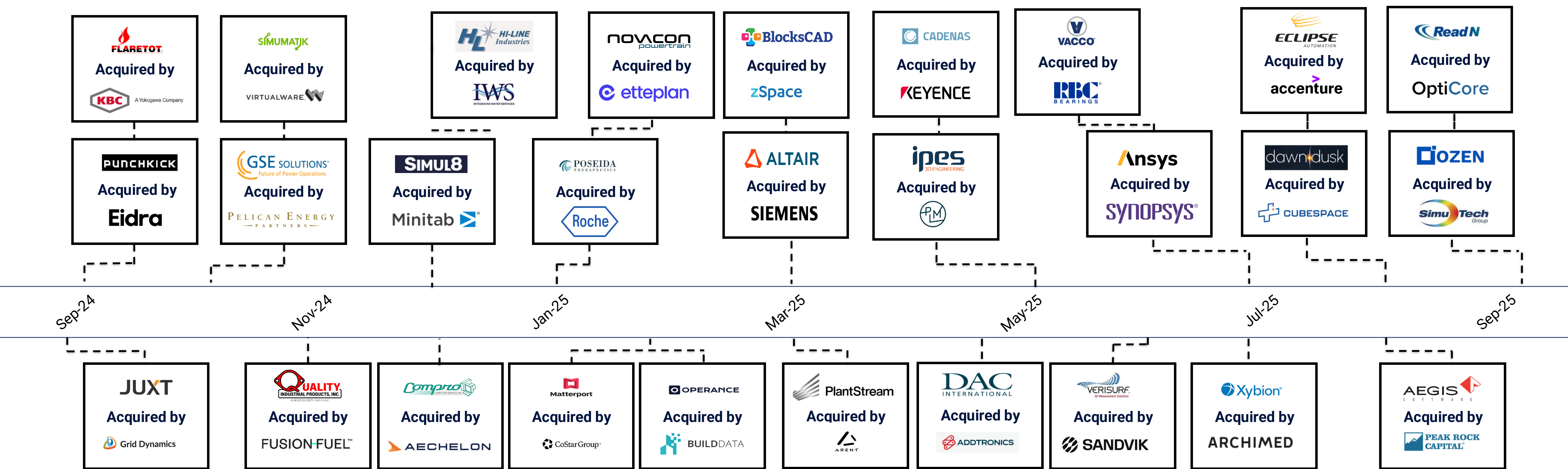
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MARKET MAP



Sources: Pitchbook, CB Insights

M&A Activity in the Digital Twin, Simulation, and Manufacturing Software Market



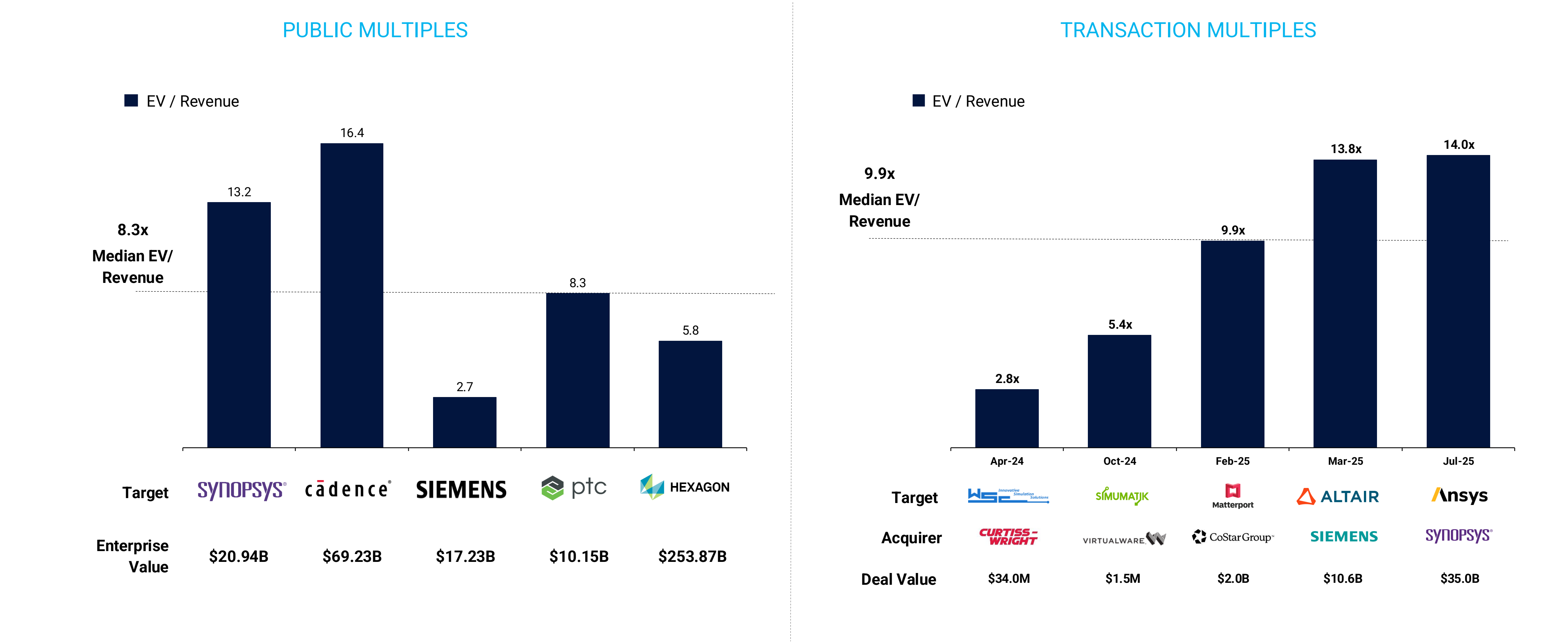
M&A activity in the space has remained strong throughout the last 18 months.

While many industries have seen a significant portion of transactions trend towards going on hold as businesses *fall short of projected budgets* – transactions in *engineering software* are still going through as forecasts hold true.

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MARKET COMPARABLES

Public companies in the digital twin and simulation sector currently have a median EV/Revenue multiple of 8.3x. Conversely, private companies in the sector currently have a median EV/Revenue multiple of 9.9x.



Sources: Pitchbook

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APPENDIX – SELECTED M&A TRANSACTIONS

Select Industry Transactions

Date	Target	Acquirer	Deal Value
07/17/2025	Ansys	Synopsys	\$35,407.31M
07/01/2025	Dotmatics	Siemens	\$5,100.00M
06/03/2025	Verisurf Software	Sandvik	Undisclosed
05/20/2025	Cadenas	Keyence	Undisclosed
04/29/2025	Tech-X	Silvaco	Undisclosed
04/05/2025	Multisys Technologies	PLDT Global Investments Holdings	\$4.49M
03/26/2025	Altair Engineering	Siemens	\$10,600.00M
03/17/2025	PlantStream	Arent	\$1.54M
03/11/2025	BlocksCAD	zSpace	Undisclosed
02/04/2025	Mcam Northwest	Mastercam	Undisclosed

Sources: Pitchbook

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Select Industry Transactions

Date	Target	Acquirer	Deal Value
01/27/2025	Kranze Technology Solutions	SPX Technologies	\$342.00M
12/05/2024	SIMUL8	Minitab	Undisclosed
11/12/2024	Neural Magic	Red Hat	Undisclosed
10/21/2024	Simumatik	Virtualware	\$1.51M
09/26/2024	Juxt	Grid Dynamics	\$61.97M
09/17/2024	Flaretot	KBC Advanced Technologies	Undisclosed
08/20/2024	OPTIMAD Engineering	Esteco	Undisclosed
06/03/2024	Beta Simulation Solutions	Cadence Design Systems	\$1,240.00M
04/02/2024	Western Services Corporation	Curtiss-Wright	\$34.00M
02/14/2024	Altium	Renesas Electronics	\$6,000.00M

Sources: Pitchbook

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APPENDIX – SELECTED M&A TRANSACTIONS

Select Industry Transactions

Date	Target	Acquirer	Deal Value
12/31/2023	Cybernet Systems	FujiSoft	\$84.85M
12/12/2023	Applied BioMath	Certara	\$36.60M
11/03/2023	ESI Group	Keysight Technologies International	\$1,430.00M
10/23/2023	National Instruments	Emerson Electric	\$8,200M
10/04/2023	Pure Systems	PTC	\$93.46M
09/07/2023	Dynavac	Weiss Technik	Undisclosed
09/01/2023	SKVR Software Solution	Sify Technologies	\$4.83M
09/01/2023	OmniQuest	Altair Engineering	Undisclosed
08/31/2023	BBS Automation	Durr	\$480.30M
06/23/2023	CADS Additive	Hexagon	Undisclosed

Sources: Pitchbook

Contact Information



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