

Allied Advisers Sector Update on Automation Software



2H 2023

Allied Advisers' Thoughts on the Automation Software Industry





The automation technology industry has seen strong growth over the last few years due to growing market needs and rapid technological innovations

- There is a clear requirement across all industries to enhance productivity, process efficiencies and reduce human error. In addition, businesses are increasingly focused on improving performance and gaining better control over operations. As labor gets more expensive and inflation increases the cost of operations, automation becomes even more important to save costs and increase profits
- Significant technology innovations have enabled and improved automation technologies – these include advanced data analytics, cloud, Industrial IoT (IIoT), and AI/Machine Learning. AI/ML in particular will continue to drive step-change improvements in automation across an increasing number of use cases

M&A deal volumes in automation have continually trended up over the last few years. Despite the market slowdown in 2022 and 2023, **M&A volume increased almost 40% over 2021 to \$39B**, with participation from Pes and strategic buyers both within and outside the automation industry. **There has been a decline in 2023 which is consistent with the overall market**, but the automation industry is outperforming other technology sectors

VC activity in the automation industry has increased steadily, resulting in a significant increase in capital investments. From 2018 to 2022, the industry experienced an increase from **\$7 billion to \$14 billion in VC funding**. This upward trend can be attributed to the increasing demand for **enhanced efficiency, cost reduction, and advancements in technology**

Introduction to Automation



Automation involves the creation and application of technologies that help produce and deliver goods and services with minimal human intervention. It helps businesses improve the efficiency, reliability, and speed of repetitive or labor-intensive tasks. Overall, automation has the potential to revolutionize industries and enhance the efficiency and effectiveness of various processes, leading to increased productivity and economic growth

	Key Industry Stats			
\$1.3T- \$2.6T	Expected contribution of automation software to the world economy by 2025, as per McKinsey Global Institute			
0.8% - 1.4%	Potential increase in growth of annual global productivity fueled by automation, per McKinsey & Company			
20%	Savings in labor costs through the use of automation technologies, according to a study by McKinsey Global Institute			
39%	Share held by North America in the global automation software market in 2021			
1-12	"Automation has the potential			



"Automation has the potential to solve the hardest problems that companies face whilst improving employee experiences."

> – Robert Enslin Co-CEO, UiPath



Growth Opportunities for Automation Software

The rising adoption of emerging digital industrial technologies, such as IIoT and cloud-based solutions, is driving the growth of the automation software market



The growing need to solve labor shortages, eliminate human error and improve time efficiency, along with the rising demand for enhanced performance in everyday operations, is expected to contribute to market growth



Favorable business drivers such as government incentives and support, the emergence of SMEs offering innovative solutions, and an increase in investment in automation across industries are driving innovation

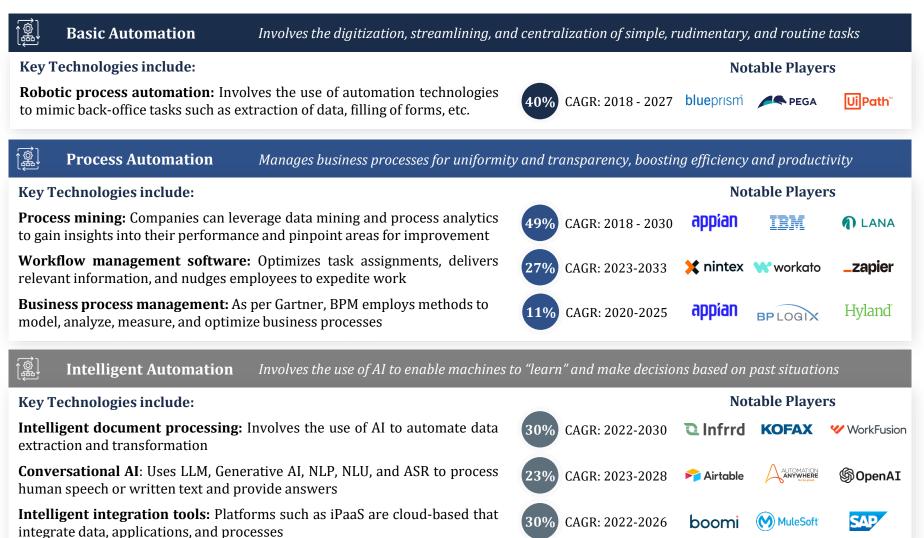


The automation space offers ample opportunities for acquisitions due to its fragmented nature, enabling companies to pursue inorganic growth via M&A and expand their market presence

Types of Automation Software

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The Automation Software Industry can be broadly categorized into 3 buckets based on the degree of automation; Basic, Process, and Intelligent Automation



Source - MarketSplash, Polaris Market Research, Future Market Insights, Markets and Markets, Grand View Research, GlobeNewswire, Markets and Markets

Increasing Adoption of Automation Software in Different Industries





- Logistics automation helps reduce labor and inventory costs by enabling real-time fleet and goods tracking, automated accounting, and automatic document generation, and enhancing the efficiency of repetitive tasks
- It is estimated that logistics companies in the US gain \$12-\$20 for every \$100 in e-commerce sales due to the adoption of automation, compared with \$3-\$5 spent on logistics in traditional brick-andmortar retail operations



Healthcare Industry

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- Automation is gaining momentum in healthcare due to benefits such as ease of use with apps, greater flexibility, well-defined operations, staffing projects, budget reductions, etc.
- ~80% of healthcare professionals have observed significant cost and time savings through the use of electronic prescriptions
- Automation helps cut down labor expenses by 50-60%, boosts quality by eliminating human error, and reduces wastage by automating traditional paperwork tasks



Financial Services Industry

- Financial services companies are increasingly adopting automation software as these solutions seamlessly integrate with other systems and provide comprehensive 360-degree visibility into financials
- According to the Institute for Robotic Process Automation, humans make 10 errors in every 100 steps involved in loan processing. Automation can mitigate these errors. Additionally, automated predictive analytics enables improved fraud detection
- RPA systems operate 24x7 around the year on existing cloud infrastructure, streamlining loan sanctioning and closing processes



Manufacturing Industry

- The adoption of automation software in manufacturing is increasing because it improves the quality and flexibility of manufacturing processes and eliminates data redundancy while automating repetitive, rulebased tasks with a scheduled setup
- Deloitte's survey on the adoption of automation in the manufacturing industry shows that 93% of manufacturing companies believe that AI will be a "pivotal technology to drive growth and innovation"

Societal Impact of Automation



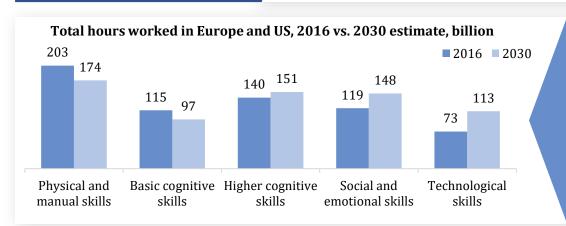
Automation can be used to improve efficiency, accuracy, and productivity across industries. The speed and scale of recent developments are likely to have a significant impact on businesses and, by extension, our societies

"Automation is not a problem to be solved, but an opportunity to be embraced."

- Klaus Schwab, Founder and Executive Chairman, World Economic Forum



Impact of Adoption by 2030 Technical Automation potential Automation is projected to Work potentially ~50% 6 of 10 Slowest Midpoint Fastest displaced by adoption of displace ~400 million workers, automation, by adoption of current work, current occupations 0% 15% 30% scenario, % of workers equivalent to ~15% of the global activities are have more than 30% (10M) (400M) (800M) (FTEs) technicallv of activities that are workforce, by 2030, resulting in automatable by technically substantial declines in certain adapting currently automatable Workforce that could Slowest Midpoint Fastest demonstrated need to change the occupations occupational category, technologies 0% 3% 14% by adoption scenario, (<10M) (75M)(375M) % of workers (FTEs)



The workplace of the future will necessitate workers to acquire new skills, as automation will accelerate the demand for advanced technological skills like programming, along with increased need for social, emotional, and higher cognitive skills such as creativity, critical thinking, and complex information processing

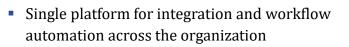
Over the past 25 years, $1/3^{rd}$ of job positions in the US have newly emerged, and as technology displaces more jobs globally, workers must adapt, acquire new skills, and seize the opportunity for higher value jobs, improved productivity, and enhanced life satisfaction for both employees and employers

Select Private Automation Companies (1/2)





- No-Code Automation platform that connects apps into automated workflows
 - 5,000+ app connections
 - Trusted by 2M+ businesses
 - Go-to solution for businesses of all sizes
- People who set up a Zap save an average of 4 hours their first week
- Allows one to automate processes without a developer
- **Technologies:** Integrates OpenAI's 'Disruptive' Transcription and Translation Whisper API
- Acquired Makerpad in Mar-21 to enhance offerings, add customers, and boost the broader use of no-code tools
- **Bootstrapped company** with a \$5B valuation solely from a secondary market sale of investor shares



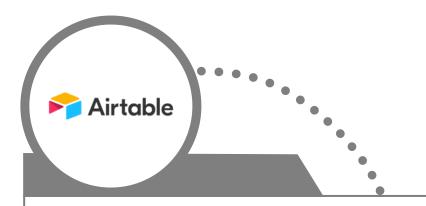
- **300** automations running

workato

- **1,500** pre-built connectors
- **6,500** saved hours each month
- 90% of all IT provisioning automated
- 1,000+ partners
- Named as a leader 5 years in a row by Gartner and Customers' Choice by Forbes
- Acquired Rails Data in Mar-22, to scale up connections for business applications
- Raised a total of \$421.2M, with a recent funding round valuing the company at \$5.7B in Oct-21

Select Private Automation Companies (2/2)





- Cloud-based collaboration platform, combining the functionality of a spreadsheet with the power of a database
 - 450,000+ users
 - Trusted by the world's largest organizations
 - \$1.36B Total funding
 - 6 offices around the world
- Won multiple awards including Forbes Cloud 100, Most Loved Products Award, CNBC Disruptor 50, etc.
- Acquired Bayes in Aug-21, to enhance the data visualizations on the Airtable platform
- Raised a total of \$1.4B, with recent funding round valuing the company at \$11.7B in Dec-21



- AI-powered digital workforce platform powering the world's leading companies with intelligent automation
 - 2.8M+ Bots deployed for RPA
 - **1M+** A-People community members
 - 1,200+ Bot Store products
 - 90+ Countries with customers
- Recognized leader in the era of digital transformation
- Recognitions: Named a leader each year of Gartner Magic Quadrant for Robotic Process Automation
- Acquired ForetressIQ in Dec-21, to expand its platform to identify software-based processes which can be automated
- Raised a total of \$1.2B

Overview of M&A Activity in Automation Sector



\$39

2022

Deal Volume

386

112

\$13

2023*

The automation sector is of interest to both strategic buyers and financial sponsors. Strategic buyers are actively searching for acquisitions to achieve competitive advantages and enhance product offerings. Financial sponsors are seeking companies as new platforms for investment

- The RPA market is a major contributor to the momentum in automation, which is driven by factors such as favorable perceptions of growth and consolidation opportunities
- Companies are automating more and more procedures because of a lack of skilled workers, impending recession, and rising competition. According to Intelligent Automation Network, the growth of the automation market is showing no signs of slowing down and will continue to expand over the coming years and reach approximately \$20 billion by 2030

Deal Activity by Buyer Type

38%

62%

2018

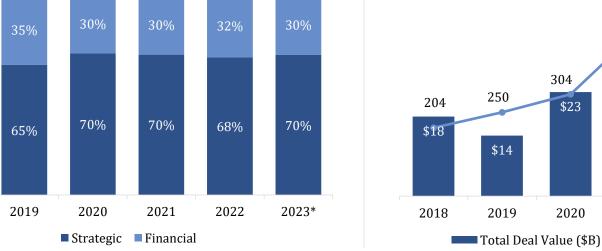
Strategic and financial buyers' interest in automation-related M&A activity has remained consistent over the past few years, with the deal value and volume in the sector increasing from 2018 to 2022

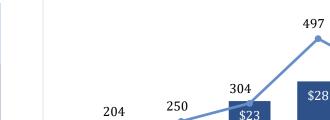


The M&A deal volume in the automation space has shown an upward trend over the past few years. The number of deals as well as the capital invested in the sector has increased significantly during 2018-22. There has been a decline in 2023 which is consistent with the broader overall market decline

2020

2021





Recent M&A Deals (1/2)



Deal Date	Target Company Name	Buyer Company Name	Rationale
Jun 26, 2023		IBM	IBM is set to acquire Apptio for \$4.6bn, a deal expected to boost IBM's IT automation capabilities and allow enterprises to enhance business value across technology investments
Mar 2, 2023	─ RPAbox	🖗 AGGRANDA	The acquisition helps Aggranda to bring more know-how and capabilities to deliver automation solutions
Jan 4, 2023	% TIDAL	REDWOOD*	The acquisition adds increased depth and breadth to Redwood Software's already extensive suite of automation solutions, which includes RunMyJobs, ActiveBatch and JSCAPE
Aug 18, 2022	E P H E S © F T	KOFAX	The acquisition is aimed at strengthening Kofax's position in the intelligent automation software market and enhancing its intelligent document processing capabilities
Jul 29, 2022	Reinfer	Ui Path [®]	With this acquisition, UiPath intends to expand its AI-powered automation capabilities and unlock new automation opportunities for its customers
Mar 16, 2022	blue prism	SS <mark>&</mark> C	The Acquisition will enhance SS&C's position as a leading provider of software and services to the financial services and healthcare industries with deep expertise in intelligent automation and robotic process automation
Feb 15, 2022	KRYON	💥 nintex	The acquisition is aimed at enabling Nintex to expand its scale and strengthen its digital process automation (DPA) capabilities

Recent M&A Deals (2/2)



Deal Date	Target Company Name	Buyer Company Name	Rationale	
Dec 23, 2021	Fortress Q		Through this acquisition, the companies will enable organizations to accelerate their automation efforts and undergo digital transformation	
Sept 2, 2021	servicetrace	salesforce	New RPA capabilities will enhance Salesforce's Einstein Automate solution, enabling end-to-end workflow automation across any system for Service, Sales, Industries, and more	
Aug 11, 2021	1 LANA	appian	With the addition of native process mining, Appian can now deliver the world's most complete Low-Code Automation Suite	
Aug 1, 2021	PL=X	Rockwell Automation	The acquisition is aimed at expanding Rockwell Automation's cloud- native smart manufacturing offering	
Apr 16, 2021	INTELLI BOT	servicenow	Intellibot has helped expand ServiceNow's core workflow capabilities by helping customers automate repetitive tasks	
May 15, 2020	softomotive	Microsoft	With this acquisition, Microsoft will expand low-code robotic process automation capabilities in Microsoft Power Automate	
Jan 7, 2020		appian	The acquisition makes Appian a one-stop shop for Automation, with best-in-class solutions for workflow, AI, and RPA	

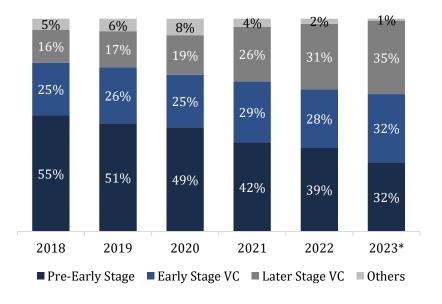
Venture Capital Funding Activity in Automation Sector

With the exception of 2022 and 2023 consistent with the overall market slowdown, the automation sector has seen strong VC funding, driven by the growing demand for efficiency, cost reduction, and technological advancements. Start-ups leveraging robotics, AI, and automation technologies have attracted significant investments, which have enabled them to further develop and scale their solutions to address industry-specific challenges

- VC activity in the automation industry has increased steadily over the past five years, peaking in 2021. However, it decreased in 2022, in line with other industries
- An increasing number of investments went toward later stage companies, indicating that companies have scaled successfully

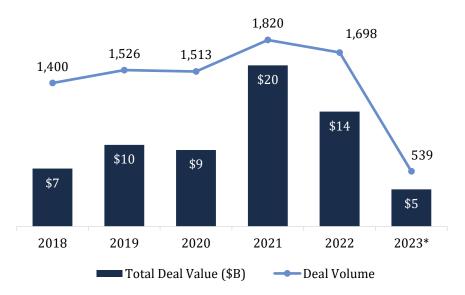
Deal Volume by Deal Type

As companies have matured, funding in late stage companies has gradually increased despite the slowdown in the IPO market, though the lack of IPOs is severely impacting late stage funding



Deal Volume and Total Deal Value

The VC deal volume in the automation space has increased over the past five years, and the capital invested has doubled from \$7B in 2018 to \$14B in 2022. 2023 is a slower year consistent with the overall market



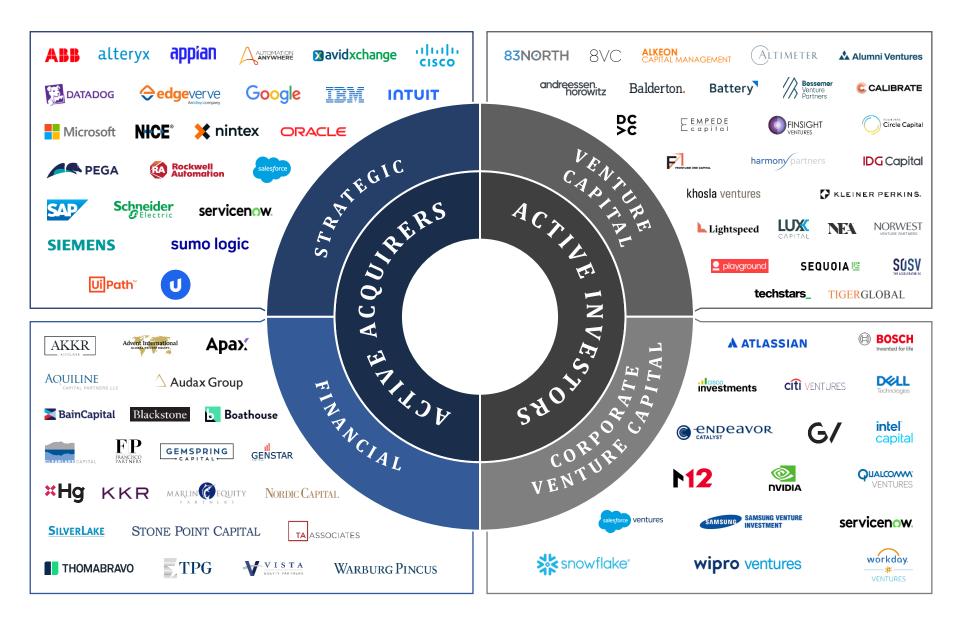
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Recent VC Investments



Deal Date	Target	Investor	Key Takeaways	Funding Round / Amount Raised
Mar 7, 2023	ΑΜΞΕΙΑ	BUILDGROUP MONROE CAPITAL	This funding round will give Amelia the financial foundation to extend its leadership position in the market and double down on serving its customers with innovative, explainable AI products	\$175M
Mar 9, 2022	JIFFY.ai	8 [∞] EIGHT ROADS ⁻	The company intends to use the funds to scale sales and marketing efforts and to advance its HyperApp platform which combines Robotic Process Automation, Intelligent Document Processing, and no-code workflow management and software creation	Series B / \$53M
Feb 22, 2022	Automata	octopus ventures	The proceeds will be used to expand its team and accelerate the development of its platform	Series A / \$43M
Feb 3, 2022	airSlate	g ² g squared	The company intends to use the new funds to expand automation capabilities and communities allowing users to get more productivity from their business documents and data	Series B / \$52M
Feb 1, 2022	wk	WHITE STAR	The proceeds will help fund scale-up and expand deployment of automation in lab workflows, in the UK and internationally	Series B / \$50M
Nov 15, 2021	CYCLONE	Goldman Sachs	The funding will be used to bolster the company's hyperautomation capabilities and products with an objective to expand customer coverage as well as global partnerships	Series C / \$150M
Oct 18, 2021	💸 workato	Battery	The funding will be used to expand EMEA customer success team and senior leadership, setting up a customer advisory board in Europe and expanding its ecosystem of partners	Series E / \$200M
Jan 14, 2021	_zapier	SEQUOIA	Sequoia Capital and Steadfast Financial bought shares from some of the company's original investors in January 2021, raising Zapier's valuation to \$5 billion	NA

Select Investors & Buyers for Automation Sector - M&A, VC & CVC & ALLIED ADVISERS



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