

# Software Enterprise: The Changing Ecosystem

Artisan Partners Non-U.S. Small-Mid Growth Strategy

PORTFOLIO MANAGER  
Viewpoints

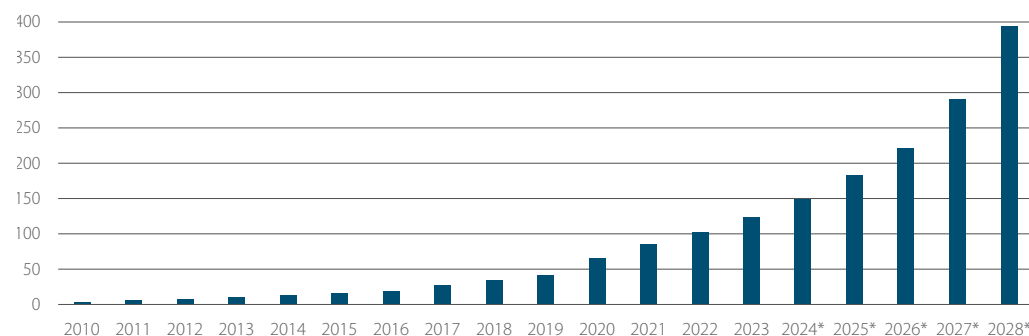
December 2024

## The Evolving Landscape

The big drivers of economic changes in the software industry—the ubiquity of digitalization globally, software’s transition to the cloud and the proliferation of artificial intelligence (AI)—are of immense interest to us. Highlighting the ubiquity of digitalization globally, businesses across every industry are facing competitive pressure to automate their processes and gain insights from the vast amounts of data generated, while securing their data and global supply chains. Software companies that fulfill these needs will have meaningful opportunities for many years to come. The second driver is software’s transition to the cloud, which provides software companies the potential for higher growth and higher customer lifetime value. Businesses that fail to move to the cloud will likely become irrelevant, left with antiquated software features and the likelihood that legacy software will be discontinued. Thus, regardless of the macroeconomic environment, businesses will have to spend on software with rich feature sets to remain competitive. The third important driver is the proliferation of AI. In addition to changing the paradigm for programmers and potentially the speed at which products iterate, AI will help elevate the value proposition of many software tools toward decision-support for management. This evolution creates greater impact for customers, and therefore increased pricing power for software providers. These structural forces are reshaping the future of business

## Data is Growing in a Hyperbolic Manner

**Exhibit 1. Volume of data/information created, captured, copied and consumed worldwide from 2010 to 2028 (in zettabytes)**

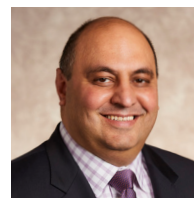


Source: Statista.

\*The data was taken from various publications released over several years with forecasts for the years 2024 through 2028.

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**Investment Risks:** Investments will rise and fall with market fluctuations and investor capital is at risk. Investors investing in strategies denominated in non-local currency should be aware of the risk of currency exchange fluctuations that may cause a loss of principal. These risks, among others, are further described on the last page, which should be read in conjunction with this material.



**Rezo Kanovich**  
Portfolio Manager

**26** Years Investment  
Experience

The number of Internet of Things (IoT) devices worldwide is forecast to more than double from 16 billion in 2023 to nearly 40 billion IoT devices in 2028.

Source: Statista.

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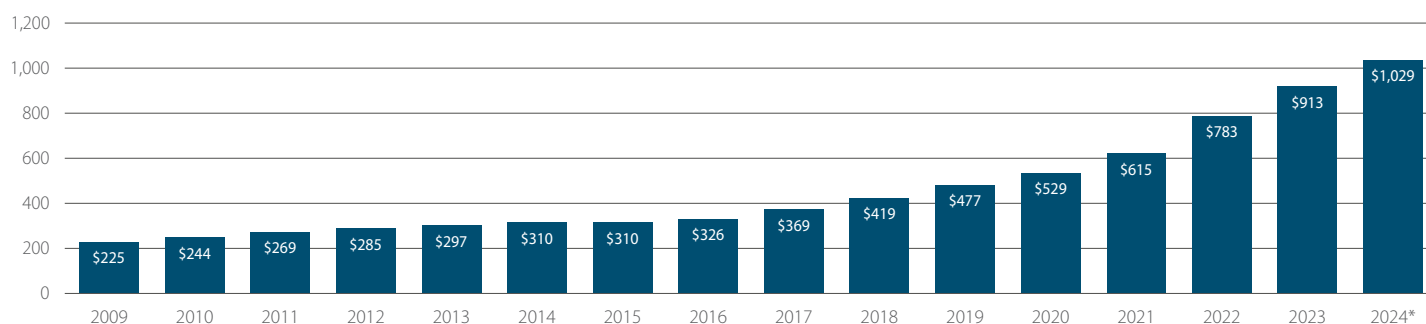
P A R T N E R S

## The Benefits of Cloud

Everything tech is moving to the cloud. No longer a novelty or a “nice to have,” cloud is a “must have” with all the innovation in software taking place there. The main barriers in terms of hardware infrastructure and security concerns are fading, and the pressures to cloud adoption are increasing. Providers can no longer develop two tracks of solutions—one for on-premise software and one for software as a service (SaaS)—and timelines for customers to migrate legacy software to the cloud are compressing. Customers must catch up with the latest feature innovations or risk being at a severe competitive disadvantage. Global enterprises and small businesses alike continue to meaningfully grow their proportion of information technology spending on cloud computing. SaaS is forecasted to reach nearly \$800 billion in global market size by 2029.

Cloud models give their customers greater flexibility and have attractive economics to the vendors, such as benefits of scale, attractive profitability profiles, high customer lifetime value and recurring revenues. SaaS solutions versus on-premise software also tend to be better architected products that promote faster feature innovation and a more seamless rollout of updates without the cumbersome process at the individual client level. This, in turn, provides a better customer experience, increasing customers’ willingness to pay. Additionally, economics are more favorable for SaaS vendors, as subscription-based models versus license-based models result in recurring revenues with predictability that allow them to better plan for longer-term investments. Lastly, the architecture also makes it easier to develop new products, which leads to more upsell and cross-sell opportunities that increase revenue and profit growth.

**Exhibit 2. Enterprise Software Spending Forecast (Billions of U.S. Dollars)**



Source: Statista. \*Estimate.

## The Coming of Age of AI

Big data coupled with the rapid conversion to cloud computing have created the conditions for AI to evolve from being a concept to a reality. Once a tool with limited accessibility, AI’s democratization has accelerated its implementation across public and private entities around the world. The ability to act on data-driven insights is fueling innovation across every industry. For example, health care companies are incorporating AI for remote diagnostics and optimized cancer radiation therapies, and financial companies are using AI to better detect fraud.

AI’s growing prominence in data analytics also presents exciting opportunities for smaller, more agile enterprise software companies to create disproportional value for their customers, resulting in sustained pricing power for both. Customers’ willingness to pay tends to be directly related to the economic value derived from the product, and this economic value is rising. A richer feature set and the promise of cloud-delivered AI via software means businesses can avoid expensive hardware purchases, lower maintenance and overhead costs and perform higher value-added services. In addition, switching from one SaaS solution to another is difficult once a business fully integrates it, creating sticky revenue streams for providers. We thought it would be interesting to present two ways one can group these software companies—those that serve a broad array of industries, and those that specialize in a niche industry or in a subset of industries.

Examples of the former group with large and growing addressable markets, diverse across industries, include NICE, Fortnox and CyberArk. NICE has incorporated AI across its key business segments. In its customer interaction software, AI is enabling businesses to use real-time predictive insights to better serve customers by directing them to the appropriate representative. In its workforce management solutions, AI is powering NICE’s robotic process automation tools and is enabling massive deployment of analytics and management tools that meaningfully enhance productivity. Lastly, NICE has incorporated AI in its financial fraud and compliance platform, Actimize. In aggregate, AI is facilitating NICE’s ability to meaningfully broaden the number of seats within its customers’ enterprises and to cross-sell high value analytics.



Fortnox is a provider of accounting software for small businesses. The company has also created an ecosystem of products available in an online marketplace for invoicing, inventory, payroll and expense management as well as higher margin financial services, such as real-time credit scoring and insurance brokering. The successful integration of AI has enabled Fortnox to meaningfully grow its customer base, deliver double-digit revenue growth for the past five years and generate healthy cash flows from operations.

CyberArk is a global leader in identity security. It offers a complete platform of end-to-end solutions that includes privileged access management—which prevents unauthorized entities from accessing an organization’s most sensitive, password-protected systems; workforce access—which provides single sign-on solutions with multi-factor authentication; and endpoint privilege security—which protects workstations and servers. As the trend toward digitization accelerates across many industries, the volume and impact of cyberattacks are increasingly elevated. These forces are driving higher demand for cybersecurity protection, requiring greater specialization and allowing best-of-breed players to emerge. Additionally, as the transition to cloud progresses and the network architecture evolves, comprehensive cybersecurity solution providers like CyberArk should continue to benefit from increased recurring revenue and sticky customer relationships.

### Exhibit 3. Horizontal and Vertical-Oriented Software Enterprise Companies

#### Companies Targeting Broad Markets



#### Companies Targeting Specialized Industries



If the above are examples of “horizontal” solutions, the following can be thought of as “vertical” solutions. Characteristics of the latter group include specialty in an industry or set of industries, especially in those with a high degree of complexity, deep understanding of individual customer needs, nimbleness, and a high degree of difficulty for product substitution. Being “one to many” allows vertical software companies to aggregate and anonymize data and become the optimal user of the data. Agilysys, Altus and Lightspeed are examples of such companies.

Agilysys provides point-of-sale (POS), property management software (PMS) and inventory management software for the leisure industry. The company has incorporated AI to help properties lift revenue and enhance operating efficiency. Agilysys is still in the early innings of capturing disproportionate market share as customers transition from legacy systems to cloud-native solutions. The company continues to execute and deliver strong growth, particularly with small- and mid-sized resorts. Once the implementation across Marriott International goes live, revenues will meaningfully rise, and other large hotel chains will likely adopt Agilysys’ software.

Altus develops Argus, the de facto “Bloomberg-like” software solution for the global commercial real estate industry. Argus performs many essential tasks, such as valuation analyses, appraisal management, risk scenario analyses, portfolio management, data consolidation for reporting and document creation. In addition to providing automation tools, the company is using AI to aggregate and analyze vast amounts of real estate transaction data for its customers, making an opaque industry more transparent, and to ingest and analyze non-real estate data, such as pedestrian traffic and volumes per cell phone tower, to highlight real estate values and pricing in interesting ways. A network effect of sorts has emerged, as smaller owners, brokers and financial service providers also want access to the data that nearly every large commercial real estate owner has as customers of Altus. As this industry increasingly digitizes and transitions to the cloud, Altus’ ability to monetize its high-value market intelligence meaningfully increases.

Lightspeed provides point-of-sale and enterprise resource planning software functionality for retailers and restaurants. Far more than just a payment software company, Lightspeed offers a suite of differentiated and value-added solutions such as inventory management, advanced analytics, e-commerce enablement, workflow integration and other products to meet the complex needs of its customers. For restaurants, Lightspeed uses AI and blockchain technology to track food preferences, forecast sales, reduce food waste, optimize menus and manage promotions and loyalty programs. Similarly, retailers enjoy access to the retail analytics, sales and payment tools thanks to the AI capabilities in Lightspeed retail POS system that directly help their bottom line. Digitalization of these industries have been greatly accelerated in recent years and is set to continue, positioning companies like Lightspeed for further growth at the center of these networks.



## Our Approach to Investing

We seek to be long-term owners in high quality businesses exposed to structural tailwinds that should drive sustainable growth in end markets. We look for well-run, innovative companies with meaningful competitive advantages, structurally high returns on capital, strong balance sheets and the ability to self-finance growth. Wonderful businesses, however, are rarely available at attractive prices, so we look for ways to acquire them in a contrarian fashion in times of adversity or perceived adversity. We aim to double our shareholders' money over five years and identify smaller companies that can become the industry leaders of tomorrow.

The transition occurring in software has created an environment for small companies to succeed. This monumental shift, like all those that have come before it, will create winners and losers. Our investment approach within technology is highly nuanced, focused on company fundamentals and sustainability, and is price disciplined. Regardless of the prevailing risk-on/risk-off environment, technology continuously creates value for its customers. If one creates disproportional value and respects long-term customer relationships, then one should be able to exercise pricing power in a disciplined fashion and be harder to replace. AI's increasing role in data analytics opens the next frontier for enterprise software companies, and we are very excited about how smaller companies can use this to their advantage. Compounding high returns on capital in such businesses, in our view, will serve our investors well over the long term.

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For the purpose of determining the portfolio's holdings, securities of the same issuer are aggregated to determine the weight in the Strategy. The holdings mentioned above comprised the following percentages of a representative account within the Artisan Non-U.S. Small-Mid Growth Strategy Composite's total net assets as of 31 Dec 2024: Nice Ltd 3.4%, CyberArk Software Ltd 1.5%, Lightspeed Commerce Inc 1.1%, Agilysys Inc 1.1%, Altus Group Ltd 0.7%, Fortnox AB 0.5%. Portfolio holdings are subject to change without notice and are not intended as recommendations of individual securities.

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