INDIUM

# A Tech Odyssey: Navigating the Landscape for Digital Native Pioneers Through Emerging Technologies

E-BOOK

# Table of contents


02
Introduction

07
Strategic Navigation for Future Success

12
Digital Natives: Reshaping Diverse Sectors

17
Driving Digital Transition: Cloud Native Strategies and AI-Powered Solutions

28
About Indium: Digital Solutions for Data-Infused Success

33
References

# 1. Introduction

In the relentless pursuit of innovation and competitiveness, digital native companies stand poised at the intersection of technological transformation as they journey towards a future brimming with visionary possibilities. This decade is defined by technologies such as AI, cloud computing, automation, and data platforms that are reshaping industries and business models.

Commencing their journey often as agile tech startups, these digital native businesses face the imperative of honing their core value propositions to allure and sustain vital venture capital investments. This exacting endeavor has driven them to intricately articulate their distinctive value propositions to consumers, be it the seamlessness of rapid grocery deliveries, the hassle-free access to rental vehicles, or the immersive engagement offered by peer-to-peer content platforms.

The IT teams embedded within these digital-native enterprises are dedicated to maximizing their resources and expediting time-to-market, all with the goal of delivering distinct functionalities that deeply resonate with and empower their user community. This concerted effort is emblematic of their commitment to not only meet but surpass the evolving expectations of their discerning clientele.

> Digital native enterprises, or Digital Native Businesses (DNBs), are defined by IDC as companies leveraging cloud-native tech, data, and AI across all operations. They rely on digital technology for core processes, fully utilizing data streaming for real-time messaging, storage, integration, and correlation.





## 1.1 Legacy Monolith: A Relic from The Past

In the not-so-distant past, Digital Native businesses (DNBs) emerged as pioneers in leveraging technology and data to revolutionize their business models. These organizations prioritized connectivity and access, laying the foundation for a robust digital presence. As the digital landscape evolved, DNBs shifted their focus towards crafting personalized experiences, recognizing the value of curated information in a data-rich environment. This shift marked the transition of data from a supporting function to a central driver of actionable insights.



> The evolution of DNBs is akin to witnessing an orchestra of innovations, with app engineering, data engineering, and data science working together and, at the same time, playing a distinct role in shaping the exciting future ahead.
>
> Aruwin Ganesan,
> SVP, Product Analytics | Indium

## 1.2 Digital Transformation: From Analog to the Future

Companies like Blockbuster, Amazon, and Netflix serve as prime examples of the profound impact digital transformation can have on traditional business models. Blockbuster, once synonymous with physical DVD rentals, faced obsolescence as digital streaming platforms emerged. In contrast, Amazon's evolution from an online bookseller to a comprehensive e-commerce powerhouse showcases this shift. Through pioneering logistics solutions and customer-centric technologies, they not only revolutionized retail but also set a new standard for digital innovation.



Similarly, Netflix disrupted the entertainment industry by leading the way in digital streaming. By offering an extensive library of content accessible anytime, anywhere, they fundamentally changed how audiences engage with entertainment. This transition from analog DVD rentals to a seamless digital streaming experience not only elevated customer satisfaction but also reshaped the entire entertainment landscape.

From a technical standpoint, these businesses scaled their operations by utilizing cutting-edge cloud computing and data analytics. Additionally, they were early adopters of the potential of digital platforms and aggressively modified their business strategies to stay on top of market changes. This seismic shift not only completely altered each of their separate industries, but also demonstrates the power of digital-native businesses to spur innovation and change entire markets.



## 1.3 The Netflix Way: The Disruptor That Became a Global Phenomenon

The "Netflix Way" has become a buzzword across industries, symbolizing a paradigm shift in how businesses approach innovation and customer-centricity. From boardrooms to startup hubs, executives and entrepreneurs are all echoing the principles that underpin Netflix's success.

At its core, the "Netflix Way" embodies a persistent commitment to user experience. Much like Netflix disrupted traditional TV viewing, companies are now striving to provide seamless, personalized experiences across their products and services. For instance, Spotify adopted a similar approach, curating playlists based on individual preferences, and setting a new standard for music streaming.

Moreover, the "Netflix Way" emphasizes data-driven decision-making. Just as Netflix uses viewer data to shape its content recommendations, businesses are increasingly leveraging big data analytics to understand and cater to their customer base. Amazon's recommendation engine, which suggests products based on browsing and purchasing history, is a prime example of this data-driven approach.

Furthermore, agility and experimentation lie at the heart of the "Netflix Way." Companies like Google have adopted a similar philosophy, encouraging teams to test and iterate on ideas rapidly. Google's "20% time" policy, where employees are free to spend a portion of their workweek on projects of their choosing, has led to the development of groundbreaking products like Gmail.

In essence, the "Netflix Way" represents a transformative approach to business, characterized by a relentless focus on customer experience, data-driven insights, and a culture of experimentation. It's not merely a blueprint for success; it's a rallying cry for companies to embrace innovation and reimagine their industries.

As businesses worldwide look to chart their own course, they are finding inspiration in the Netflix way, recognizing that in today's digital landscape, adaptability and customer-centricity are the keys to enduring success.



# 2. Strategic Navigation for Future Success

## 2.1 Navigating Today’s Landscape

The onset of the COVID-19 pandemic temporarily disrupted the overall services industry; however, it significantly propelled the momentum for digital transformation. Enterprises have to expedite their implementation of cloud computing, data analytics, and AI technologies to ensure uninterrupted business operations and accomplish strategic objectives. The demand surge for these services stems from enterprises' efforts to strengthen their in-house talent pool, streamline time-to-insights, overhaul outdated analytical models and acquire a deeper understanding of rapidly evolving customer behaviors.

The global digital transformation market continues to expand as organizations accelerate investments in cloud-native architectures, AI, cybersecurity, Business Intelligence (BI), big data analytics, and intelligent automation.

The market was valued at **USD 1,302.9 billion in 2025** and is projected to grow from **USD 1,583.2 billion in 2026** to **USD 5,493.1 billion by 2033,** at a **compound annual growth rate (CAGR) of 19.4%** from 2026 to 2033. [1]

This sustained growth is driven by the widespread integration of advanced technologies that enable organizations to modernize operations, improve efficiency, strengthen resilience, and deliver better customer experiences. These advancements continue to reshape business operating models while creating new opportunities for innovation and revenue growth.

Concurrently, the service provider landscape is undergoing rapid evolution to meet the evolving demands and address challenges pervasive across the industry. Presently, service providers are making substantial investments to develop comprehensive end-to-end capabilities, positioning themselves as the preferred partners for enterprises' digital transformation endeavors. This trend has led to a convergence of distinct provider segments, blurring the lines that once demarcated them.




Digital-native organizations leverage transformative technologies to effectively navigate through a spectrum of risks and navigate disruptions arising from geopolitical shifts, market volatility, and the need for corporate restructuring. Notably, market players are channeling their efforts toward creating cutting-edge, technology-driven solutions that empower businesses to augment their profitability, thereby propelling market expansion.

The widespread adoption of Digital Experience Platforms (DXPs) to improve customer satisfaction and foster brand loyalty is a driving force pushing the digital transformation market. Companies across diverse sectors like BFSI, retail, IT & telecom, and healthcare are embracing DXPs as an integral part of their business strategies, aiming to enhance customer engagement and expedite product launches. Collaborative efforts between end-user companies and industry leaders are instrumental in seamlessly integrating DXPs into their operational frameworks.

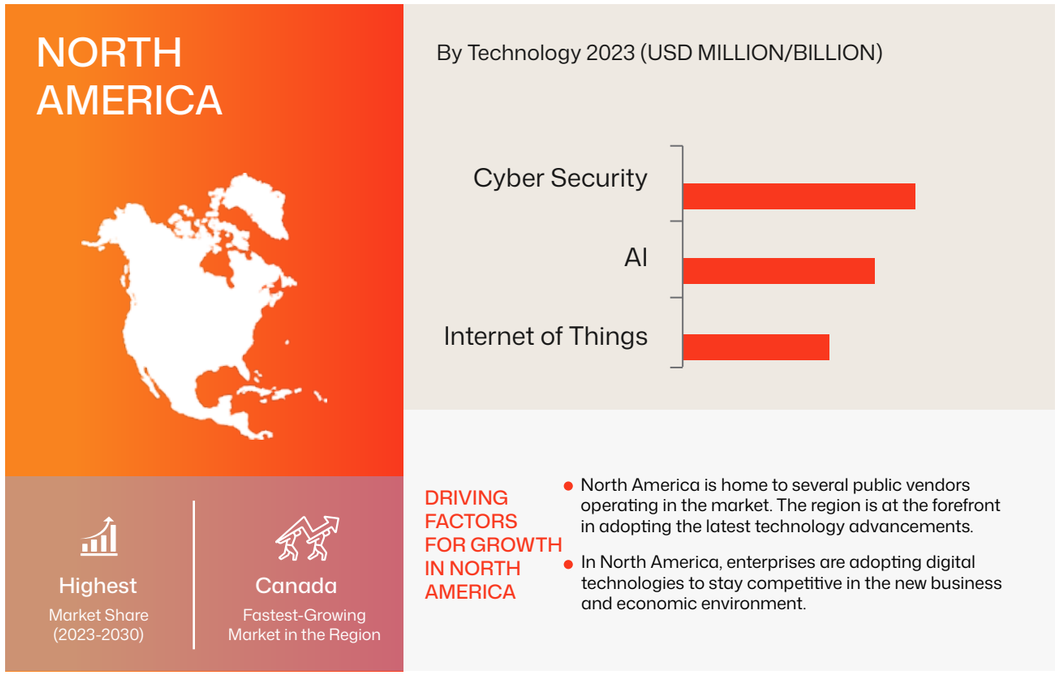


# 2.2 Meeting Tomorrow's Need

## 2.2.1 Solution Insights

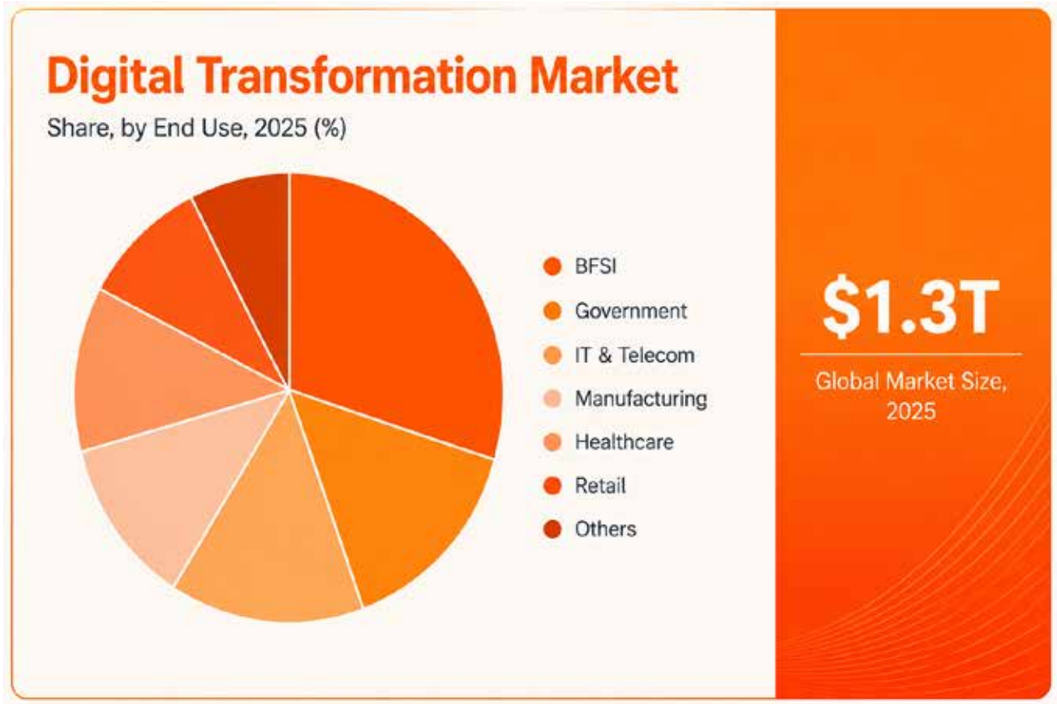
Analytics continues to be a cornerstone of enterprise digital transformation as organizations expand the use of AI and data-driven decision-making across business functions. According to McKinsey's 2025 State of AI survey, 78% of organizations now use AI in at least one business function, highlighting how AI, machine learning, advanced analytics, and data platforms have become foundational capabilities for delivering better customer experiences. [2]

Moreover, beyond its operational enhancements, the strategic acceptance of analytical solutions embodies a progressive approach. It signifies an organizational commitment to not only comprehending the intricacies of data but also utilizing these insights as strategic pivot points. This shift in approach empowers organizations to position themselves at the forefront of innovation and progress.



## 2.2.2 Deployment Insights

The on-premises segment held the largest market share, accounting for 51.1%. This deployment option offers advanced data security, providing end-user companies with a reliable means to comply with various government regulations. The increasing shift of end-user companies towards cloud-based digital transformation solutions, driven by their lower operating costs and flexible subscription models, is anticipated to pose a limiting factor on market growth in the upcoming forecast period.




*Source:www.grandviewresearch.com*



## 2.2.3 Industry Insights

The BFSI sector remained the leading end-use industry in the global digital transformation market. Banks and financial institutions focused on enhancing consumer experiences, resulting in a broader customer base and stronger brand identity. This focus on technical support further improved customer retention rates, propelling segment growth. If we see the payment services landscape, Gen AI emerges as the key player in forging secure, seamless transactions. Envision a future where cutting-edge biometric authentication methods, including voice and thought recognition, supported by continuously vigilant LLMs, stand guard in real-time, elevating security and the user journey and establishing an unparalleled benchmark in digital payments.

This isn't just a technological evolution; it's a paradigm shift in how we perceive and execute financial transactions. These innovations aren't just enhancements; they're proof of the insistent pursuit of excellence in safeguarding digital ecosystems. It's about creating a space where users can have absolute confidence in the security of their transactions, where every interaction is an affirmation of trust.

> Rakbank of UAE is an excellent example of extending touchpoints with customers beyond traditional banking transactions. Three out of the bank's six apps are related to food delivery, football and school fee payment. Through these apps, the bank is accessible to customers at various points in their lifecycle.




*Source:www.grandviewresearch.com*

# 3. Digital Natives: Reshaping Diverse Sectors

These digital natives owe their prowess to the strategic deployment of SaaS (Software as a Service) solutions, meticulously constructed upon a foundation of cloud-native infrastructure. This isn't just technology; it's an architectural marvel that provides them with more than just a competitive edge. It's a dynamic framework that empowers them with a symphony of agility and adaptability, ensuring operations that seamlessly adjust to the ebb and flow of the market's pulse.

Yet, their quest for excellence doesn't stop there. They harnessed the boundless potential of Artificial Intelligence (AI) and Machine Learning (ML) to finesse their operations. With algorithms as their compass, they navigate the complexities of business with precision. They've transformed their backend systems into a seamless tapestry, where data flows effortlessly, optimizing processes and fueling unprecedented efficiencies.

In The Data-Driven Enterprise of 2025 [3] , McKinsey & Company outlines seven critical characteristics that define the modern data-driven enterprise:

**Data Integration** | Data seamlessly integrates into every facet of decision-making, interactions, and business processes, serving as the bedrock of operations.

Swift, real-time data processing enables rapid decision-making and responsive actions. | **Real-Time Processing**

**Flexible Data Stores** | Enterprises employ versatile data storage solutions to integrate easily accessible data for diverse purposes.

A data-centric operating model recognizes data's inherent value, emphasizing its potential to generate substantial value. | **Data as a Product**



**Chief Data Officer's Role** | The Chief Data Officer's role expands to focus on extracting value from data, acknowledging its pivotal role in organizational success.

Collaboration and data-sharing within industry-specific data ecosystems become standard practices as enterprises realize the advantages of collective participation. | **Data Ecosystems**

**Data Management** | Prioritized and automated data management ensures privacy, security, and resilience in an increasingly data-driven landscape.

Real-time visibility, feature-rich mobile apps, and seamless integration with cutting-edge technologies like managed cloud services, 5G networks, and augmented reality are crucial elements in the digital environment.

Digital natives born in the cloud, powered by data streaming.

NETFLIX Square BIGCOMMERCE

Grab Robinhood 10x

instacart Expedia

> Digital native enterprises, or Digital Native Businesses (DNBs), are defined by IDC as companies leveraging cloud-native tech, data, and AI across all operations. They rely on digital technology for core processes, fully utilizing data streaming for real-time messaging, storage, integration, and correlation.

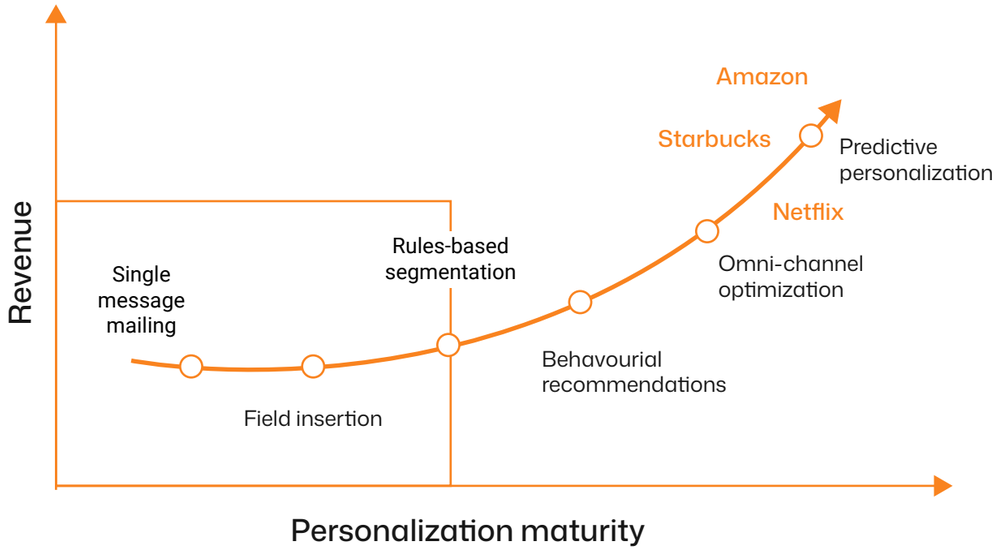
## 3.1 Are Emerging Technologies Driving Digital Native Hypergrowth?

By utilizing technology like Gen AI, LLMs, and real-time analytics, the Digital Natives in corporate IT, retail, health, transportation, and logistics can maximize revenue, increase productivity, and improve ROI.

Let's see how!

## 3.2 Data-Driven Insights: Hyper-Personalization and Precision in Retail

Within the retail landscape, Gen AI heralds a transformation that transcends conventional product suggestions. Envision a scenario where virtual shopping assistants curate complete personalized virtual storefronts, curated to individual preferences, and offer immersive augmented reality trial experiences. This pinnacle of hyper-personalization revolutionizes customer interaction, elevating digital native retailers into architects of tailor-made shopping journeys.






Equipped with real-time analytics and foresight-driven models, these digital native enterprises release the potential of hyper-personalization. They anticipate customer desires and provide products and services with unmatched accuracy, establishing fresh benchmarks in retail customer journeys. This isn't merely a technological advancement; it's a witness to their vision and dedication to redefining the future of retail. They don't just meet customer expectations; they shape them. They lead not just with technology, but with a profound understanding of their clientele, creating experiences that resonate on a deeply personal level. The future of retail is guided by digital natives who are leading the way.




## 3.3 Real-time Data Streaming and IoT Revolution: Autonomous Logistics and Sustainability

The integration of real-time data streaming and the Internet of Things (IoT) is revolutionizing the logistics landscape for digital native companies. With this technology fusion, they gain unprecedented, minute-by-minute visibility into their supply chains. This level of monitoring, encompassing assets, shipments, and environmental conditions, underpins seamless operations and unrivaled efficiency.

In transportation and logistics, digital natives leverage Gen AI's pivotal role in accompanying autonomous logistics. Collaborating with advanced LLMs, they adeptly coordinate fleets of autonomous vehicles, ensuring optimal routes and minimal downtime. This orchestration doesn't just signify efficiency; it embodies a commitment to reshaping the transportation landscape. Moreover, these integrated technologies pave the way for a sustainable transportation ecosystem, where decisions are made in real time, taking into account environmental factors and regulatory shifts. This isn't merely progress; it's a profound shift in how we envision and operate logistics, setting a new standard for the industry.

## 3.4 How are they using AR/VR to create immersive experiences that bridge the gap between online and offline retail?

Virtual reality (VR) and augmented reality (AR) technologies are being used by digital native businesses to build immersive experiences that blur the lines between online and offline interactions. IKEA and Snapchat are two examples of companies that have adopted this revolutionary strategy. Customers may digitally place furniture in their own locations through IKEA's app, for instance, which improves the decision-making process.

Snapchat, on the other hand, uses AR filters that let users superimpose digital items over their actual environment, demonstrating the potential of AR in social media. These developments herald a transition toward a more interesting and engaged digital environment, fusing the real and the virtual.

## 3.5 Automation for Enhanced Efficiency: Autonomy in Customer Support and Operations

Companies are being compelled by digital transformation to alter their business models and conform to brand-new market conditions.
What's interesting about this is that it's not the companies that are driving this change. Instead, the customer is driving this transition.

Automation, powered by AI/ML, grants digital native companies the ability to provide autonomous customer support, handle routine tasks, and make informed real-time decisions. This optimization frees up human capital for strategic endeavors, improving resource allocation and customer satisfaction.






# 4. Driving Digital Transition: Cloud Native Strategies and AI-Powered Solutions

Making wise choices, embracing innovation, and developing strategic alliances are essential for leaders in today's quickly changing corporate environment if they are to make growth that is sustainable. Even so difficulties frequently appear, from scarce resources to cumbersome legacy procedures. Globally, enterprises are turning to Cloud solutions to quickly address these challenges. This includes implementing market-leading cloud platforms like Microsoft Azure, Amazon Web Services (AWS), and Google Cloud Platform (GCP), a decision prompted by the enormous potential and advantages these technologies present.

Cloud-native technologies continue to be the foundation of digital transformation strategies. According to Gartner, **worldwide end-user spending on public cloud services is forecast to reach USD 723.4 billion in 2025, up from USD 595.7 billion in 2024,** reflecting continued enterprise investment in AI, application modernization, and scalable digital infrastructure.

Gartner also predicts that **90% of organizations will adopt a hybrid cloud approach by 2027**, underscoring the growing importance of cloud-native architectures for organizations seeking greater agility, resilience, and innovation. [4]

In parallel with the surge in Cloud Native Strategies, integrating AI-powered solutions is pivotal in reshaping modern enterprises. Artificial Intelligence (AI) technologies, driven by machine learning algorithms, empower businesses to extract valuable insights from data, automate processes, and enhance decision-making. Industries from healthcare to finance are witnessing transformative applications, exemplified by companies like IBM Watson and Salesforce Einstein. These AI-driven solutions optimize operations and foster innovation, positioning organizations to thrive in the dynamic digital landscape. As the demand for intelligent systems continues to escalate, the convergence of Cloud Native Strategies and AI-Powered Solutions heralds a new era of sustainable growth and competitive advantage. We will see what AI-powered solutions are in the detail sections below.

## 4.1 What is a Cloud Native Application?

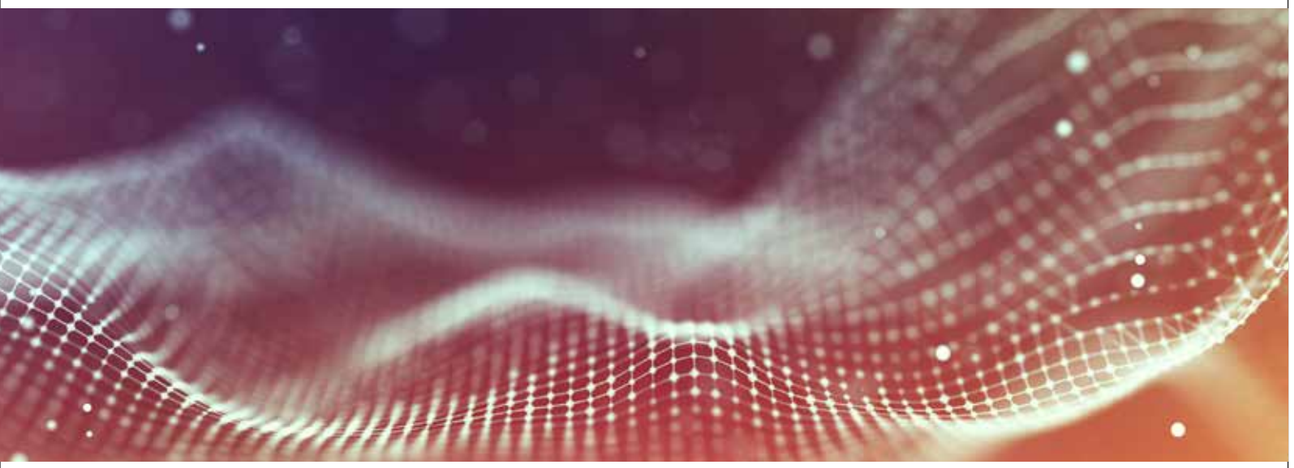
Modern cloud computing platforms require programs to operate in an elastic and distributed environment. Therefore, cloud-native apps are specifically designed for the cloud. Due to the loosely coupled nature of the code in these applications, none of the infrastructure's components are directly tied to it. Furthermore, this design approach ensures that the program adheres to immutable infrastructure principles and can easily scale up or down as required.

Additionally, the Cloud Native Computing Foundation's official definition is available:

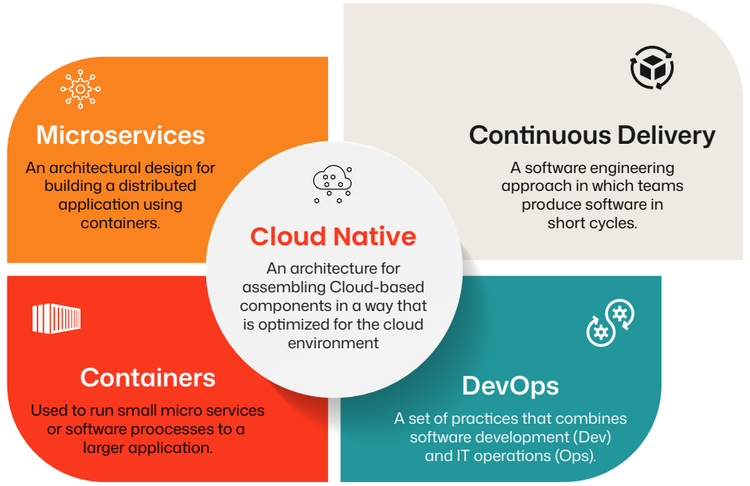
> Organizations are now able to create and deploy scalable applications in contemporary, dynamic environments like public, private, and hybrid clouds thanks to cloud native technology. Examples of this strategy include declarative APIs, service meshes, containers, microservices, immutable infrastructure, and microservices.

### 4.1.1 Advantages of Cloud Native Applications

Cloud Native applications, distinguished by their microservices architecture and containerized operation, are purpose-built for the Cloud right from the start. The integration of cloud infrastructure and microservices empowers organizations to iterate and deploy at an accelerated pace, making Cloud Native technology a sought-after asset for companies eager to stay agile and competitive.

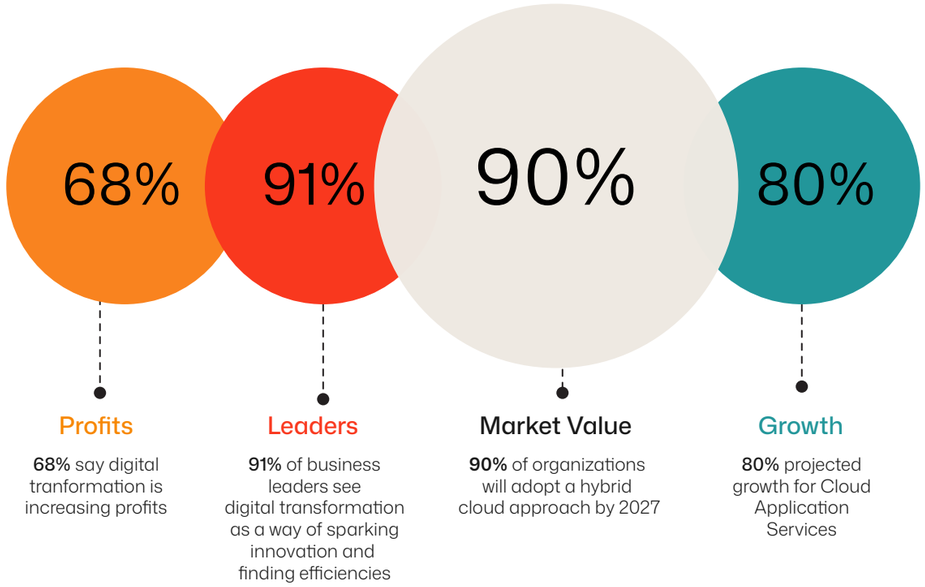







### 4.1.1.2 Enabling Speed and Adaptability

Cloud Native systems excel in rapid evolution, scalability, and robust resilience. They meet high user expectations for responsiveness, innovation, and uninterrupted availability. They drive strategic evolution, propelling business momentum and expansion. This transformative capability reshapes the digital landscape, unlocking limitless potential for innovation and growth.



### 4.1.1.3 Client Success Story: Empowering ESG Integration

Our client stands as a guiding light in the field of responsible investing. They empower investors to seamlessly incorporate Environmental, Social, and Governance (ESG) considerations into their strategies. Through the provision of ESG data, analytical tools, and insightful signals, they facilitate well-informed investment decisions.

**Meeting Business Demands**

The challenge was clear - to create a robust, cloud-based data management platform capable of handling vast datasets for multiple clients. It is needed to ensure concurrent access for hundreds of users, offer a unified view of curated data, and support bulk data processing. Additionally, high availability, scalability, and centralized governance were paramount.

**Driving Business Impact**

The impact was transformative. Time-to-market was accelerated by a remarkable 60%. A highly scalable data curation portal equipped with interactive dashboards revolutionized data collection and analysis. Streamlined workflows, automated validations, and detailed JSON outputs significantly enhanced efficiency in ESG assessments.





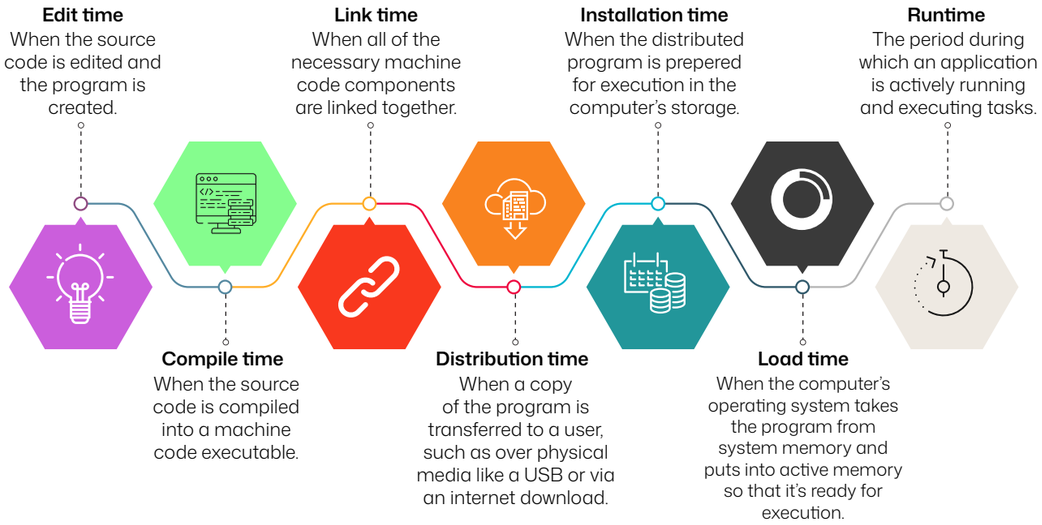

## 4.2 Go - The Language of Modern Development

Go, an open-source programming language, is revolutionizing the way digital native organizations approach software development. Born out of the need for simplicity, reliability, and efficiency, Go has quickly risen to prominence since its public release in 2012. Originally conceptualized to handle intricate codebases at Google, it now stands as a leading player in the modern programming landscape.

**Key Highlights:**

1. **Simplicity and Efficiency:** Go's syntax is designed for readability and conciseness, making it a preferred choice for developers seeking straightforward yet powerful programming solutions.
2. **Performance Prowess:** Engineered with efficiency in mind, Go is the go-to language for cloud-based applications, server-side operations, and large-scale automation tasks.
3. **Cloud-Native Compatible:** Leading cloud platforms such as AWS, Azure, and GCP fully support Go, enabling seamless integration and deployment in cloud environments.
4. **Robust Community Ecosystem:** Go benefits from a thriving open-source community, constantly enriching the language with modules and libraries tailored for various applications.

## The Programming lifecycle




## Notable Examples

### Kubernetes

The orchestration platform that manages containerized applications, developed by Google, is written in Go. It exemplifies the language's efficiency in handling complex tasks at scale.

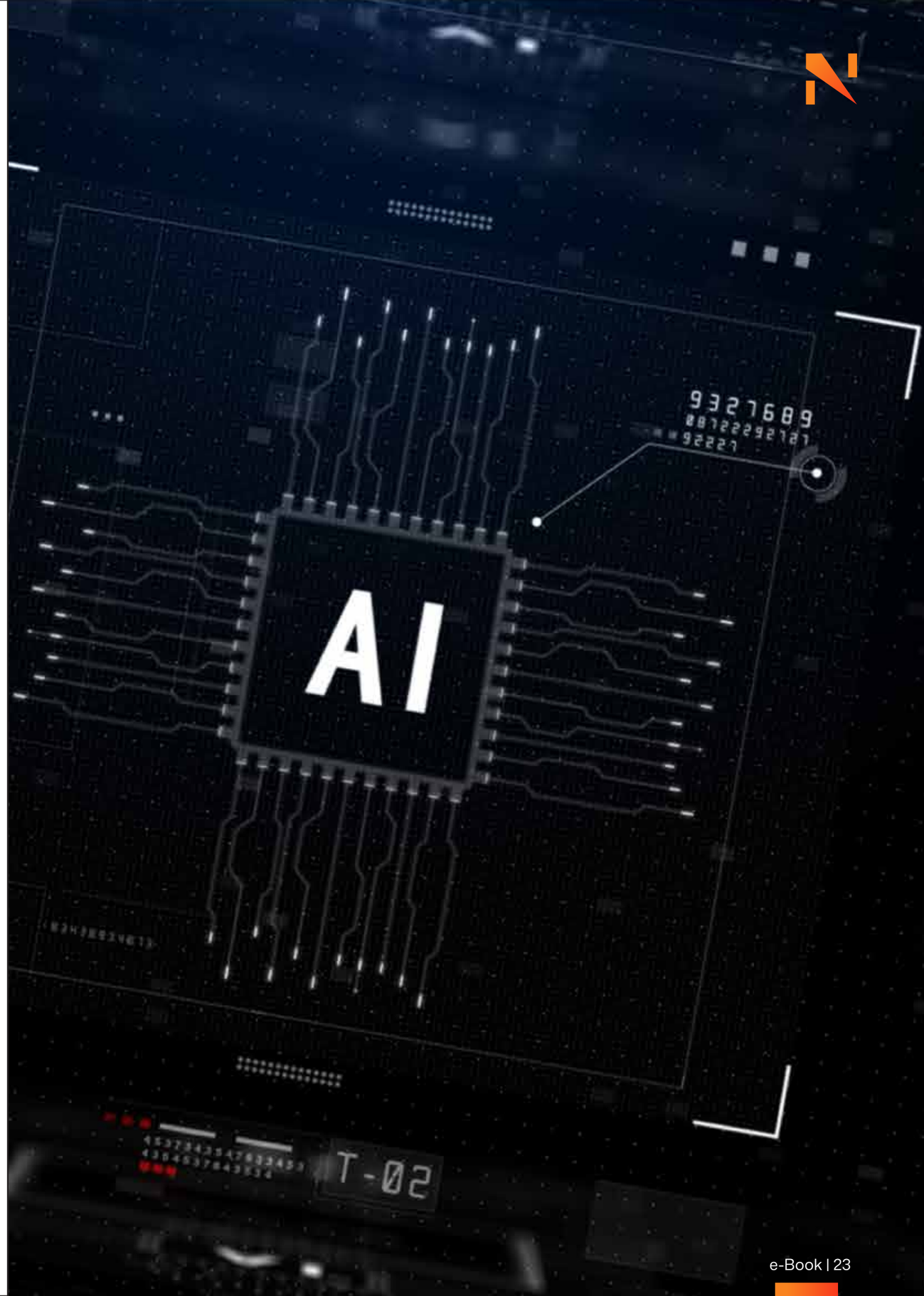
### Docker

The widely adopted containerization platform relies on Go for its speed and efficiency in managing containers across different environments.

### Terraform

Infrastructure as Code (IaC) tool by HashiCorp, written in Go, allows users to define and provision infrastructure using a declarative configuration language.





## 4.3 Generative AI (Gen AI) and Large Language Models (LLMs) and NLP: Revolutionizing Customer Engagement and Decision-Making

The section emphasizes the transformative impact of Generative AI (Gen AI), Large Language Models (LLMs), and Natural Language Processing (NLP) on customer engagement and decision-making for digital native companies. These advanced technologies enable businesses to deliver hyper-personalized content, engage in real-time natural language interactions, and make data-driven decisions at an unprecedented scale.

Through a series of real-time use cases spanning various industries such as banking, healthcare, retail, payment providers, transportation, logistics, and travel agencies, we unveil how digital native companies leverage these advancements to propel their businesses towards new heights. These technological breakthroughs form the cornerstone upon which digital natives will continue to shape their success in the dynamic and ever-evolving business landscape.

### 4.3.1 Client Success Story: Streamlining Document Processing: A Success Story

In the midst of a demanding office environment, a significant challenge arose. The task at hand was to navigate through a trove of over 50 complex legal, financial, and due diligence PDFs, in search of crucial insights. Previous attempts with major AI solutions fell short, struggling to adapt to the diverse array of documents.

- The challenge was formidable. Each document presented a unique puzzle, with varying languages, formats, and structures.
- Standard tools grappled with the complexity, particularly when faced with multi-page legal and financial documents. It felt akin to searching for a needle in a haystack, blindfolded.
- Document processing time plummeted dramatically, from a day's effort to just an hour. Automation became the linchpin, handling a significant portion of extractions. Errors, once a concern, faded into obscurity. Data accuracy surged, rework diminished, and compliance risks were all but eradicated.



The impact was profound, extending beyond efficiency. It provided a panoramic view, extracting data from a multitude of fields across various document types. This paved the way for strategic, informed decisions. In the end, this solution was not just a tool–it was a revolution. It turned chaos into clarity, labor into leisure, and data into a guiding compass towards a future of unrivaled success.

### 4.3.2 Practical Applications of AI and Machine Learning Beyond the Buzz!

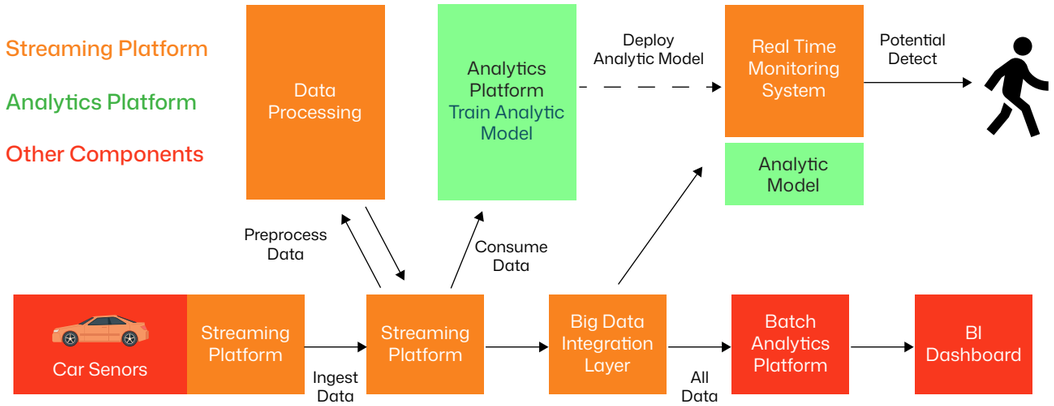
Indeed, Gartner's perspective that "ChatGPT, while cool, is just the beginning; enterprise uses for generative AI are far more sophisticated" rings true. It's essential to recognize that the potential of AI, particularly machine learning, goes beyond the buzz and is already being effectively applied in numerous enterprises.

Amidst the current hype around Generative AI (GenAI), it's valuable to focus on tangible real-world success stories where analytic models have been utilized for many years. These models have been instrumental in tasks such as fraud detection, upselling to customers, and predicting machine failures. GenAI represents another advanced model that seamlessly integrates into an organization's IT infrastructure and business processes.

Providing and correlating information correctly in the right context is crucial for enterprises seeking to stay competitive. Real-time data streaming, where information is processed in milliseconds, seconds, or minutes, is often superior to delayed data processing, ensuring that insights are harnessed swiftly and effectively.



## Data streaming + AI/ML = Real-time intelligence





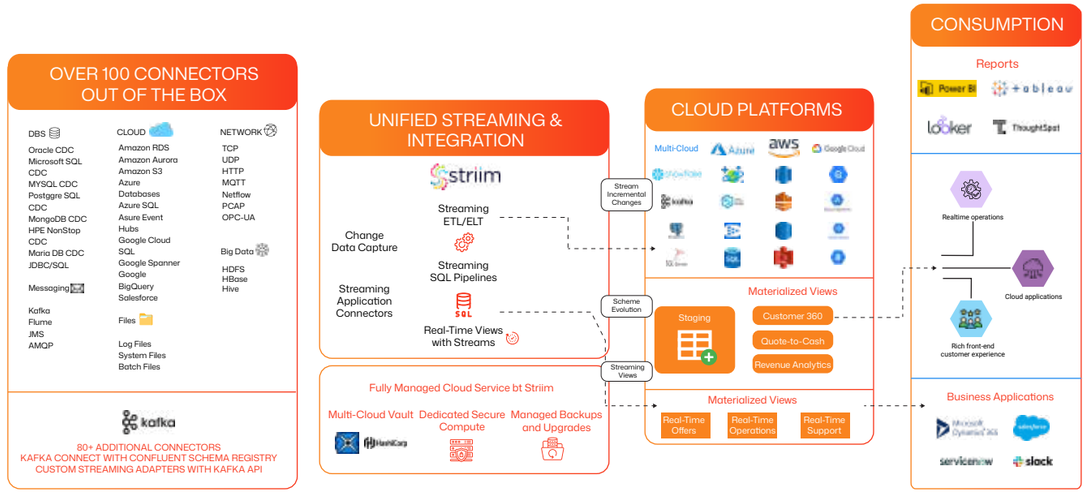

> GenAI in DNBs is a canvas for innovation, where challenges, such as data privacy and ethical AI, and opportunities, like a hyper-personalized user experience, are conscientiously addressed by our forward-looking aspirations
>
> Aruwin Ganesan,
> SVP, Product Analytics | Indium

### 4.3.3 NLP with Data Streaming for Real-time GenAI

Natural Language Processing (NLP) has proven to be a valuable tool in numerous real-world projects, enhancing service desk automation, enabling customer interactions with chatbots, moderating social network content, and serving many other use cases. Generative AI (GenAI) represents the latest evolution of these analytical models, adding even more capabilities to the mix. For years, many enterprises have successfully integrated NLP with data streaming to power real-time business processes.



Below is an architecture that illustrates how teams can seamlessly incorporate Generative AI and other machine learning models, such as large language models (LLM), into their existing data streaming framework:




### 4.3.3.1 Client Success Story: How we helped an airline giant with real-time analytics

An exemplary example[5] is our project with an airline company employing Striim to generate real-time data from a myriad of airline applications such as AIMS, CMS, RampView, Trax, Middleware, Sable. We helped them visualize these data using Tableau, which accelerated the decision-making:

1. The real-time data availability was brought down to 2 minutes, which was earlier taking 20 minutes.
2. Tableau was deployed for internal and external users to consume reports from the analytics.

# 5. About Indium: Digital Solutions for Data-Infused Success

Whether organizations are reinventing for the digital environment or augmenting existing business, digital engineering holds the key to success. Adopting cloud and digital technologies is relatively straightforward, but their constant evolution makes it difficult to meet business expectations.

**Ideation, Validation, & Prototyping:** Indium aids in identifying business requirements, crafting MVPs, and validating new product ideas. Through innovation and prototyping, ideas are verified before seeking approval, ensuring customer-focused solutions.

**Development, Launch, & Continuous Improvement:** Indium employs best practices and methodologies for efficient and high-quality development, ensuring the product is primed for success with seamless integrations, global adaptability, and independent testing. We also offer upgraded features, cross-platform integration, and continued support, enhancing user experience and meeting changing market needs throughout the product's lifecycle.

**Enhanced by a High-Performing Data-Driven Ecosystem and Leveraging New Technologies:** Indium's high-performing data-driven ecosystem, combined with cutting-edge technologies, benefits businesses with informed decisions, customer-centric solutions, efficient development, adaptability, improved user experience, global scalability, optimized resources, and enhanced ROI from ideation to commercialization.



## 5.1 Indium Facts

Indium is an AI services company that helps organizations operationalize AI to deliver measurable business outcomes. With expertise spanning Agentic AI, Gen AI, Data & Analytics, Application Engineering, Quality Engineering, and GCC as a Service, we build scalable, enterprise-ready solutions that integrate seamlessly into existing business ecosystems.

With **25+ years** of engineering excellence, **5,000+ associates, 100+ active clients, 7 global delivery centers,** and a **40% five-year CAGR,** Indium has earned the trust of Fortune 500 companies and digitally native enterprises worldwide. Its teams combine deep engineering expertise with AI-driven innovation to help organizations modernize applications, unlock the value of their data, improve software quality, and accelerate digital transformation.

Founded on a culture of curiosity and continuous learning, Indium has evolved alongside every major technology shift–from the early internet and cloud computing to today's AI-first era.

This commitment to innovation has been recognized by leading industry analysts, including being named a **Major Contender in the Everest Group PEAK Matrix® for Data & AI Services (2025) and a Leader in the AIM Research PEMA Quadrant for Data Engineering (2026).**

At its core, we believe organizations don't need more AI tools–they need AI that fits, scales, and delivers real business value.

### 5.1.1. Client Success Story: AWS Integration

An AI-powered language-learning platform, utilizes the PyTorch framework on AWS to deliver customized algorithms that offer tailored lessons in 32 languages. These algorithms rely on extensive data points, ranging from 100,000 to 30 million, to make 300 million daily predictions, such as the likelihood of a user recalling a word and answering a question correctly.

The client's system employs deep learning, a subset of AI and ML, to analyze user interactions with words, including correct responses, response modes, and practice intervals. Based on these predictions, the platform presents words in contexts that users need to master them, enhancing the learning experience.



While the Client initially used traditional cognitive science algorithms when it started in 2009, these algorithms couldn't process real-time data to create personalized learning experiences. The embracing of deep learning tools improved prediction accuracy and increased user engagement, with a 12% increase in users returning to the service on the second day after implementing these tools. This success story, with 300 million subscribers, underscores the pivotal role of the AWS cloud in enhancing platform speed, scalability, and predictive capabilities.

As demonstrated by the client, the cloud now offers a wide range of capabilities, delivering three key advantages:




**Operational Excellence:**
Empowering companies to prioritize differentiated work over maintenance or commodity tasks, resulting in cost reduction, heightened security, and increased reliability.

**New Levers and Capabilities:**
Facilitating organizations in accelerating the development of new products, features, and market expansion.

**Accelerated Innovation**
Combining operational excellence and new capabilities to drive faster, more agile, maintainable, and scalable development processes.

## 5.2 Partnering for Success: How Indium Empowers Digital Natives for Better Results

Digital Native organizations are on the cusp of a profound transformation, one that leverages cutting-edge technologies to unlock unprecedented growth and efficiency. The adoption of emerging trends and platforms brings forth tangible benefits, transforming the digital landscape into a realm of limitless opportunities.

- Digital Native companies are at the forefront of driving innovation and require iterative processes for rapid feature releases.
- Research underscores the pivotal role of Azure in driving Digital Native growth through three key drivers: Azure market share expansion, enhanced capabilities, and new avenues for marketing and sales.

**Tangible Business Outcomes:**

01 Digital Native enterprises adopting Azure as their primary cloud platform have witnessed substantial enhancements

02 A remarkable **44%** increase in revenue from cloud offerings, reinforcing Azure's role in driving profitability.

03 An impressive **75%** surge in profits attributable to high-value solutions reaching the market faster.

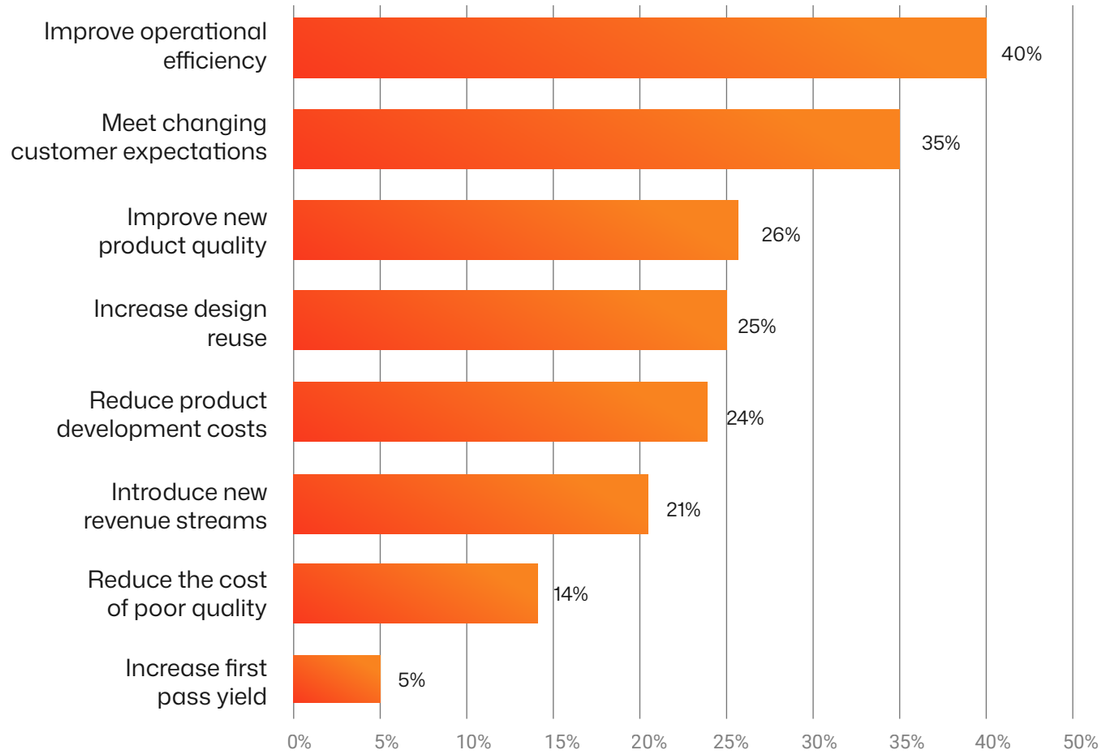
04 Accelerated time to market, with a **58%** reduction, enabling Digital Native companies to introduce a greater number of offerings to consumers.

05 A substantial **30-40%** boost in productivity, attributed to agile methodologies and automated performance test-



The strategic adoption of technology stands as the cornerstone of success for Digital Native organizations. These quantifiable outcomes underscore the transformative power of embracing emerging trends and platforms, positioning them for sustained growth and competitive advantage.

## Top Benefits of Adopting a Digital Model



# References


1. Grand View Research (2024). Digital Transformation Market Size, Growth Report, 2020-2027. [online] www.grandviewresearch.com. Available at: https://www.grandviewresearch.com/industry-analysis/digital-transformation-market [Accessed 23 July 2026].

2. Singla, A., Sukharevsky, A., Yee, L., Chui, M. and Hall, B. (2025). The state of AI: How organizations are rewiring to capture value. [online] McKinsey & Company. Available at: https://www.mckinsey.com/capabilities/quantumblack/our-insights/the-state-of-ai-how-organizations-are-rewiring-to-capture-value [Accessed 23 July 2026].

3. McKinsey Digital (2022). The data-driven Enterprise of 2025. [online] Available at: https://www.mckinsey.com/~/media/mckinsey/business%20functions/mckinsey%20analytics/our%20insights/the%20data%20driven%20enterprise%20of%202025/the-data-driven-enterprise-of-2025-final.pdf [Accessed 23 July 2026].

4. Gartner (2024). Gartner Forecasts Worldwide Public Cloud End-User Spending to Total $723 Billion in 2025. [online] Gartner. Available at: https://www.gartner.com/en/newsroom/press-releases/2024-11-19-gartner-forecasts-worldwide-public-cloud-end-user-spending-to-total-723-billion-dollars-in-2025 [Accessed 23 July 2026].

5. Kutay, J. (2022). Introducing Striim Cloud – Data Streaming and Integration as a Service. [online] Striim. Available at: Introducing Striim Cloud - Data Streaming and Integration as a Service - Striim [Accessed 23 July 2026].




# About the Author



**Aruwin Ganesan**

Aruwin Ganesan, the dynamic SVP, Product Analytics at Indium, combines 16 years of versatile experience in consulting, project management, and data science. His numerical acumen fuels a mission to optimize processes and craft algorithms that define operational excellence. Proficient in R, SQL, and Python, Aruwin is dedicated to steering data-powered decisions and ensuring peak efficiency. A visionary leader known for transforming challenges into streamlined solutions, he stands at the forefront of strategic delivery, driving innovation and excellence in every endeavor.

# About Indium

We are an AI services company specializing in Agentic AI, Data & Analytics, Application Engineering, and Quality Engineering.

By combining autonomous AI systems, modern engineering, and data intelligence, we build innovative AI solutions that drive measurable business outcomes and long-term value.

With 5,000+ associates worldwide, Indium partners with Fortune 500 companies, Global 2000 enterprises, and leading technology firms in Financial Services, Healthcare, Manufacturing, Retail, and Technology. Our teams operate in North America, India, the UK, Singapore, Australia, and Japan, helping businesses stay ahead in an AI-first world.


USA
Cupertino | Princeton
Toll-free: +1-888-207-5969

INDIA
Chennai | Bengaluru | Mumbai | Hyderabad | Pune
Toll-free: 1800-123-1191

UK
London
Ph: +44 1420 300014

SINGAPORE
Singapore
Ph: +65 6812 7888

www.indium.tech

For Sales Inquiries
sales@indium.tech

For General Inquiries
info@indium.tech