# Cloud Modernization

## Enhance agility, reduce costs and improve operational efficiency

## Modernize to Unlock the Potential of AI

To gain scalability, flexibility and cost efficiency, many organizations are embracing cloud modernization. By providing a powerful infrastructure for advanced artificial intelligence (AI) and machine learning (ML) applications, cloud modernization helps enterprises reduce costs, accelerate innovation and respond more effectively to market change – while optimizing performance and enabling real-time analytics and decision-making.

Yet, cloud modernization poses significant challenges. Migrating legacy systems is complex and resource-intensive, often requiring substantial re-architecting for cloud compatibility. Distributed cloud environments complicate data protection and regulatory adherence issues. Migration cost management, cultural resistance and the integration of cloud technologies with existing systems can be difficult. Overcoming these challenges demands a well-coordinated approach focused on strategic alignment, risk management and continuous improvement.

## Cloud Modernization Challenges and Business Impacts

Key IT challenges can impede your organization's ability to maximize the value of cloud modernization.

### Top Challenges of Cloud Modernization

| Top Challenge | Business Impact |
|---|---|
| Migration of large volumes of data from on-premises systems to the cloud | Potential system downtime, high migration cost and data integrity issues |
| Maintenance-intensive on-premises system | Elevated costs of maintaining expensive hardware, infrastructure and data centers |
| Difficulty integrating existing on-premises systems with new cloud services | Higher likelihood of system disruption plus poor interoperability between legacy systems and modern cloud technologies |
| Overly complex tasks for managing and updating software | Excessive time and resources required to keep software and systems current |
| Threats to the security of sensitive data | Increased effort required to protect against potential vulnerabilities and comply with industry regulations |
| Limited ability to deploy new services and applications due to legacy infrastructure | Reduced business agility and innovation |

### Key Benefits

- Effortlessly manage data across cloud, on-premises and hybrid environments
- Adapt to change with scalability and flexibility
- Unlock growth opportunities using AI and ML
- Seamlessly integrate data with high-performance integration services
- Ensure reliable, high-quality data
- Use AI-powered intelligence and machine learning to optimize data management
- Empower business users with self-service analytics

## Drive Innovation with a Unified Cloud Modernization Solution

To solve these IT and data challenges and streamline the transition to the cloud, you need a comprehensive approach that modernizes your IT infrastructure, optimizes operations and supports scalable, secure and efficient data management. **Modern, AI-powered cloud modernization solutions** support multi-cloud and hybrid environments, ensure seamless data integration and interoperability and use advanced AI capabilities to automate complex tasks and improve data quality and governance.

Choose a modern cloud modernization solution that helps:

- **Effortlessly manage data** across cloud, on-premises and hybrid environments and simplify data governance, integration and quality management tasks

- **Adapt to change with scalability and flexibility** by handling fluctuating data volumes and diverse workloads efficiently

- **Unlock growth opportunities** using AI and ML capabilities to generate actionable insights and enable predictive analytics

- **Seamlessly integrate data** using high-performance integration services across multi-cloud and hybrid environments, ensuring smooth data movement and transformation

- **Ensure reliable, high-quality data** with cleansing, matching and standardizing processes and **master data management** (MDM) capabilities that deliver a single, trusted view of critical business data

- **Enhance data management processes** using AI-powered intelligence and ML to provide predictive insights, automate routine tasks and support more informed decision-making

- **Empower business users with self-service analytics** to foster a data-driven culture and enable rapid decision-making without heavy reliance on IT teams

[1] **Informatica, Navigating the Benefits and Challenges of Cloud Modernization**, 2024.

[2] **IDC, IDC FutureScape: Worldwide Cloud 2025 Predictions, Oct 2024**, Doc # US52640724.

# 89%

of data leaders strongly believe that modernizing legacy data infrastructure to the cloud is critical to enable AI[1]

# 60%

By 2027, more than 60% of businesses will have modernized up to 50% of their cloud architecture to encourage infrastructure and cost efficiency and enable business and technical innovation[2]

## Takeda Brings Clinical Data to Life for AI

Biopharmaceutical company **Takeda** is focused on the discovery and development of life-transforming treatments in core therapeutic and business areas. To speed up clinical trials and fuel new AI use cases, Takeda modernized its cloud data backbone on Informatica and AWS.

Now, a research and development data hub streamlines trusted information-sharing. "With data volumes growing 20% each year, we needed the strategy of a cloud-first, AI-driven infrastructure as a service that can be optimized across the company," says Takeda Chief Data Officer Barbara Latulippe.

The **Informatica Intelligent Data Management Cloud™** (IDMC) made it easy to ingest data into new data lakes hosted on Amazon S3 and orchestrate data management across storage layers. Takeda moved 96% of its data to the cloud within just 18 months and simplified its on-premises footprint to three data centers. Each month, the scalable Informatica infrastructure efficiently runs over 450,000 data integration jobs and processes more than 30 billion records.

By simplifying its data and AI architecture in the cloud, Takeda saves millions in IT overhead and total cost of ownership – savings that can be reinvested into life-saving R&D and drug discovery. "We've seen a lot of benefits from IDMC's cost optimization, including bottom-line savings and indirect efficiencies of up to 40% with our cloud migration and unified integration hub," says Latulippe.

With trusted data at their fingertips, Takeda's researchers and scientists can facilitate faster, more efficient clinical trials and precise therapy development, getting safe, innovative treatments to market fast.

**Learn More**

## Maximize the Benefits of Cloud Modernization with IDMC

Many organizations are unable to effectively address today's cloud modernization challenges using legacy tools and processes. Without a unified, AI-powered cloud modernization platform that supports multi-cloud and hybrid environments, automates complex tasks and improves data quality and governance, it can be nearly impossible to gain maximum value from cloud modernization initiatives. That's where IDMC can help.

The Informatica cloud modernization solution, powered by **IDMC**, offers comprehensive support for organizations transitioning to the cloud. IDMC is an end-to-end, cloud-native data management platform powered by **CLAIRE® AI** (see Figure 1). It connects, manages and unifies data across virtually any multi-cloud or hybrid environment, democratizing trusted data and helping advance business strategies. The platform uses AI and ML to automate and scale data management tasks across the enterprise and deliver a range of cloud data management services.

IDMC offers an intuitive, efficient and cost-effective cloud modernization platform. The solution includes:

- Cloud-native design that facilitates high flexibility and performance

- High-performance data integration services across multi-cloud and hybrid environments, ensuring smooth data movement and transformation

- Data management services that ensure reliable, high-quality data through cleansing, matching and standardizing processes, plus MDM capabilities that support a single, trusted view of critical business data

- CLAIRE AI-powered intelligence and automation capabilities that optimize operations and accelerate cloud adoption by automating routine data management tasks, providing predictive insights and supporting more informed decision-making

- A comprehensive data governance framework that helps ensure data privacy and security while enabling compliance with regulations and policy mandates

- Self-service analytics that empower business users with easy access to data and analytics tools, promoting agility and user empowerment with less IT overhead

In addition, flexible pricing options help organizations better plan and predict usage, budgeting and optimal costs while automatically scaling compute power based on data management workloads.
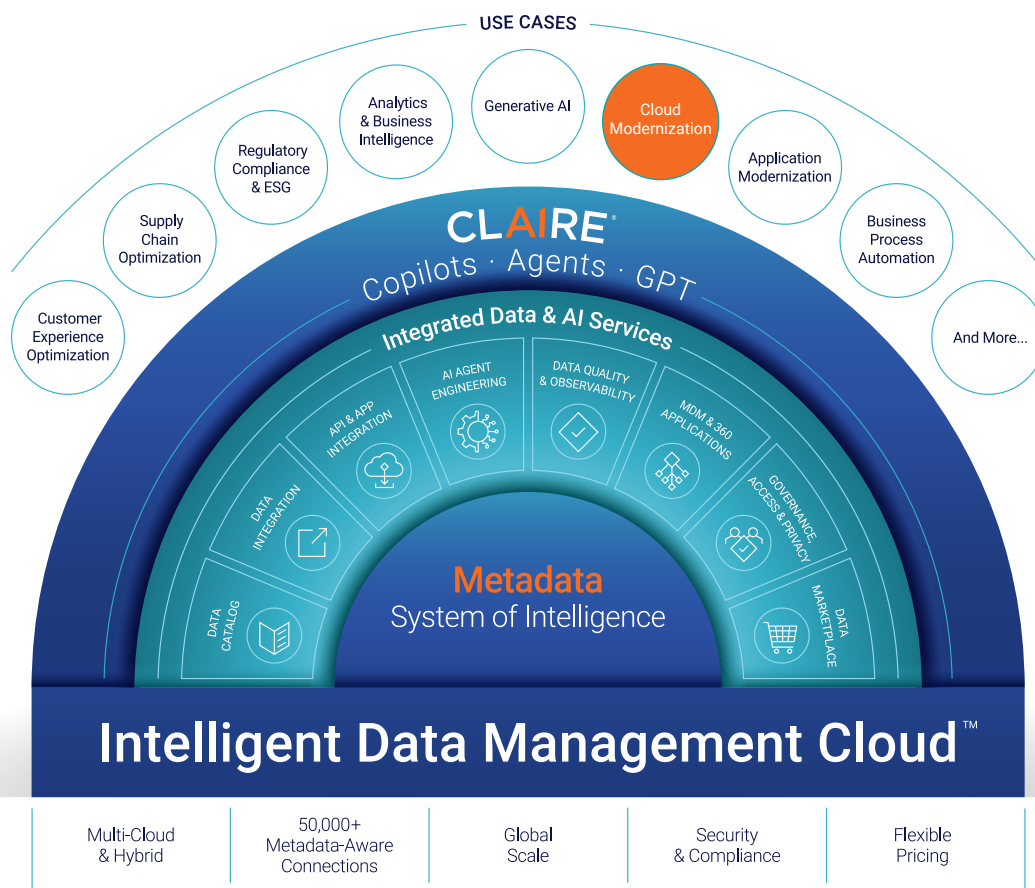
Figure 1. The Informatica end-to-end Intelligent Data Management Cloud (IDMC), powered by CLAIRE AI

˝IDMC helps us bring all the data management capabilities together in the best data architecture you can imagine. Rather than juggling multiple data products and siloed tasks, IDMC gives you a single plane to visualize all the work across any cloud or platform, from data sourcing and quality to consumption.˝

Sudeep Regmi, Head of Data Management and Innovation, Takeda

## Beyond Cloud Modernization: Exploring More Opportunities

As you tackle your cloud modernization challenges and begin to see value, you open the door to enhancing your overall data strategy. IDMC supports additional use cases, such as analytics and business intelligence, meeting regulatory requirements, optimizing customer experiences, driving new AI initiatives and more. IDMC is your key to a unified approach to sharing critical data assets across your organization.

## Want to learn more?

Discover Informatica data integration and management use cases at **www.informatica.com/use-cases/cloud-modernization**.

**Where data & AI come to**



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Informatica (NYSE: INFA), a leader in enterprise AI-powered cloud data management, brings data and AI to life by empowering businesses to realize the transformative power of their most critical assets. We have created a new category of software, the Informatica Intelligent Data Management Cloud™ (IDMC), powered by AI and an end-to-end data management platform that connects, manages and unifies data across virtually any multi-cloud, hybrid system, democratizing data and enabling enterprises to modernize their business strategies. Customers in approximately 100 countries and more than 80 of the Fortune 100 rely on Informatica to drive data-led digital transformation. **Informatica. Where data and AI come to life.™**

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