

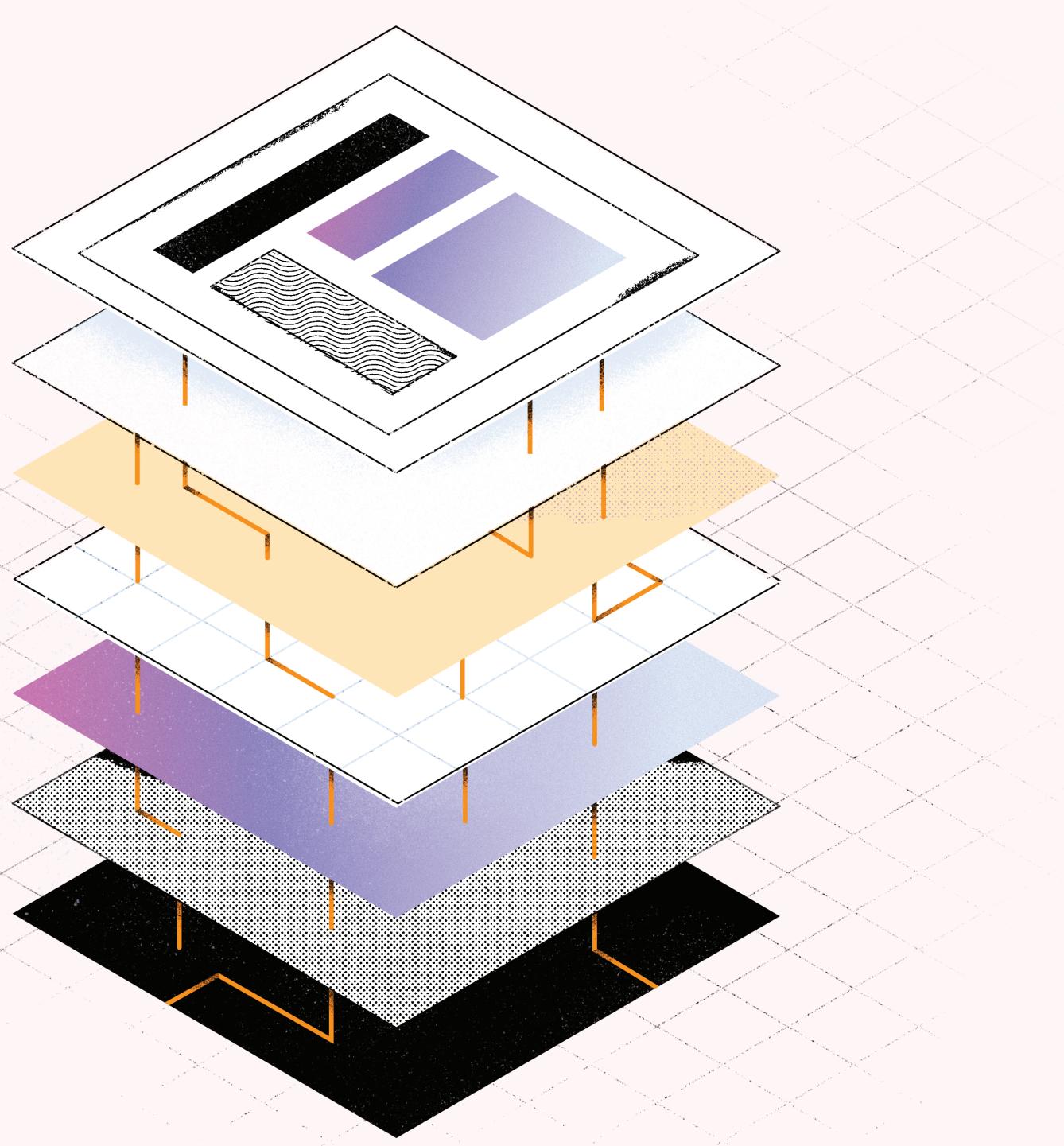


Scale up and speed on



AWS and IBM help organizations across industries accelerate SAP modernization.

Contents



Learn how companies accelerated SAP modernization with Amazon Web Services (AWS) and IBM in these AWS Partner Innovator stories:

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The power of cloud architecture

As business technology evolves, the limitations of on-premises servers become more apparent. High maintenance costs, scalability challenges, and slowed pace of innovation can stand in the way of long-term goals, including sustainability and agile service delivery. Many organizations already understand the benefits of a fast, scalable serverless architecture but lack the resources to carry out large-scale migrations with minimal disruption.

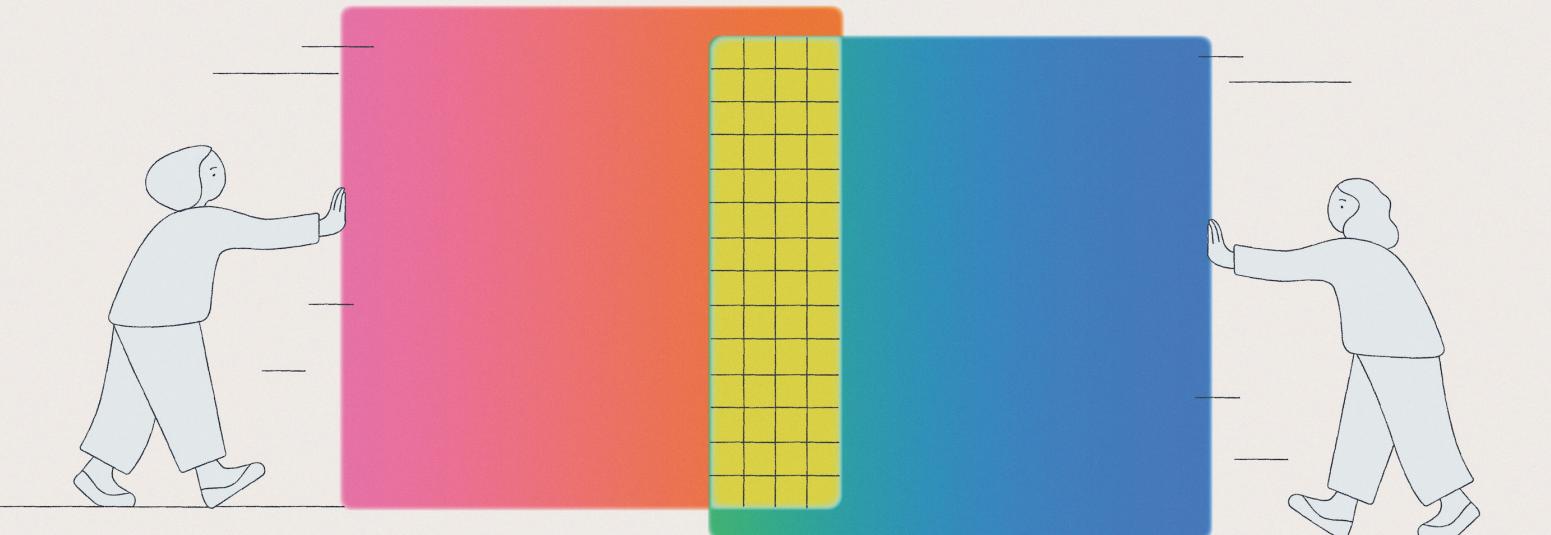
SAP systems have evolved into an essential enterprise platform, playing an everyday role in finances, supply chains, and more. AWS and IBM bring a unique combination of infrastructure and expertise to help businesses quickly realize the value of their SAP cloud initiatives. With solutions customized to accommodate existing workflows, the two companies collaborate to provide cloud-powered speed and scalability with specialized tools for optimizing SAP migrations.

Remove the speed limits on your cloud modernization journey with AWS and IBM.

This book showcases companies that found success working with AWS and IBM to support cloud migration initiatives for mission-critical SAP servers. From public utilities to global manufacturers to one of the busiest airlines in the world, these companies' stories illustrate how AWS and IBM deliver the powerful benefits of cloud SAP design consistently across a variety of industry scenarios without slowing the pace of business.

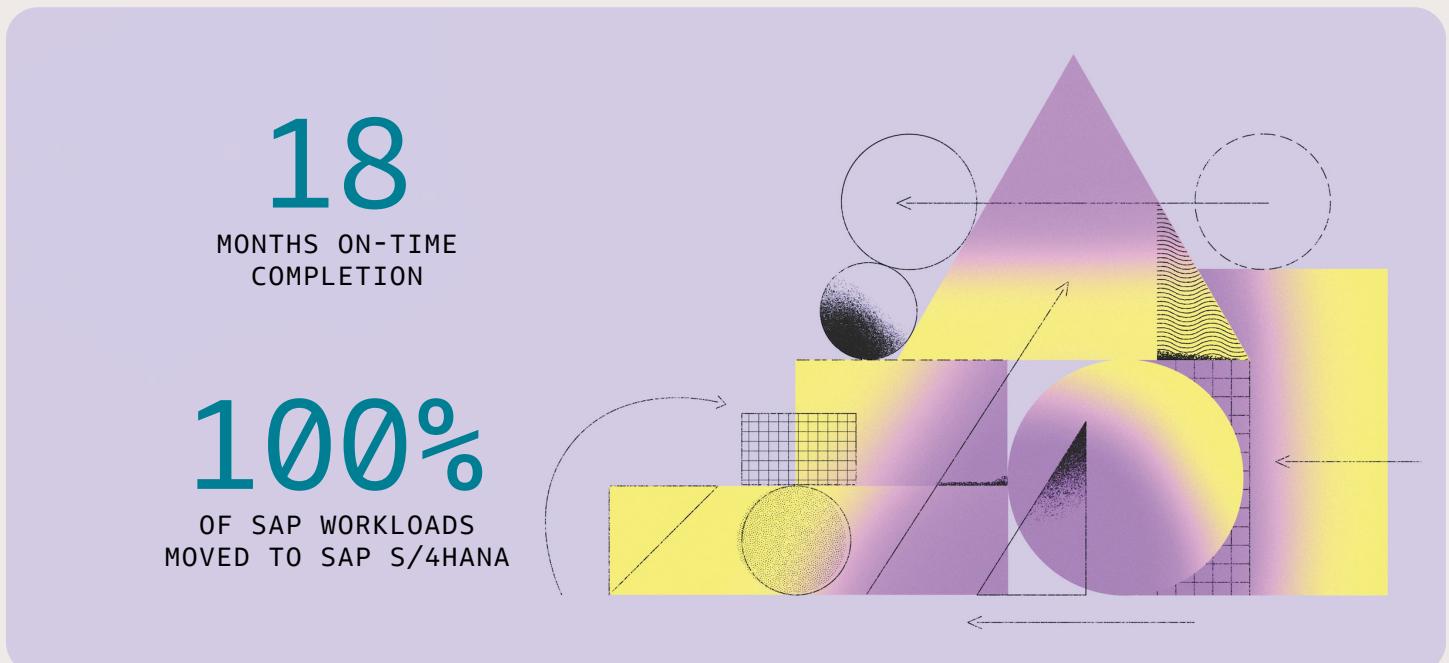
Edison powers its SAP modernization with an accelerated migration

A generational leap into cloud SAP S/4HANA design helps an Italian energy provider reduce infrastructure costs and improve service processes.



OVERVIEW

Edison (part of EDF Group), an established energy provider in Italy, partnered with Amazon Web Services (AWS) and IBM Consulting[®] to modernize its legacy SAP systems. Striving to improve operational inefficiencies and with a goal to reduce infrastructure costs, Edison embarked on a cloud migration journey to SAP S/4HANA. Over 18 months, AWS and IBM seamlessly migrated Edison's SAP workloads, providing scalable, secure, and real-time data processing capabilities. The project was completed ahead of schedule, with zero unplanned downtime incidents, and resulted in cross-departmental process improvements. The transition reduced costs, increased flexibility, and empowered Edison to manage its national energy needs more efficiently.

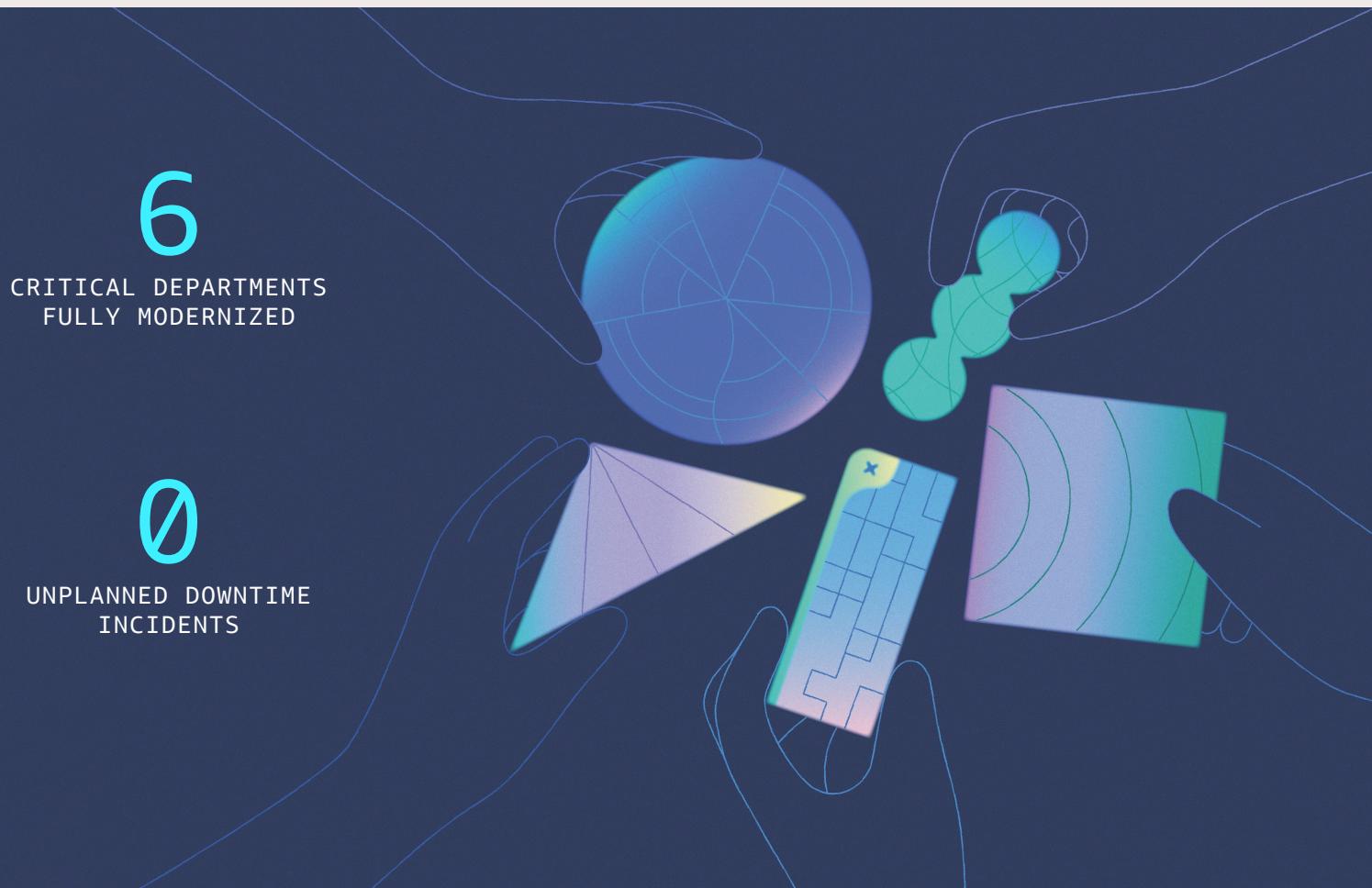


OPPORTUNITY:
LEGACY ON-PREMISES
SAP SYSTEMS
HINDER GROWTH

Edison has been a leader in diversifying gas supply chains and promoting responsible gas use over its more than 100-year history as an energy provider in Italy. However, its legacy on-premises SAP systems were causing operational inefficiencies, including limited compute performance and costly maintenance. Edison began its cloud migration journey, choosing AWS and IBM Consulting to transform its SAP workloads. The migration to SAP S/4HANA was critical to improving efficiency, reducing infrastructure costs, and providing scalability for Edison's expanding energy strategy. The real-time processing power of SAP S/4HANA would streamline operations and allow Edison to achieve its ambitious modernization goals.

SOLUTION:
STREAMLINED SAP
S/4HANA MIGRATION
ON AWS

IBM Consulting, a long-time partner of Edison, led the company's SAP modernization efforts, implementing digitized processes across six key departments, including procurement, finance, and HR. IBM chose SAP on AWS for its cloud infrastructure, offering scalable performance, elastic storage, and robust SAP integrations. To streamline the migration, IBM enlisted the help of AWS Partners SNP Group and Panaya, whose tools mapped Edison's processes and provided AI-powered testing. The reliable global uptime and SAP-ready architecture of AWS formed the foundation for a smooth transition to SAP S/4HANA. The migration reduced operational complexity, enhanced data management, and enabled faster, more efficient system consolidation, helping Edison cut migration time by 60 percent compared to legacy systems.



AWS reduced infrastructure costs and increased flexibility for Edison engineers to begin creating their own internal solutions via new interfaces and production resources.

OUTCOME:
EFFICIENT SAP
SYSTEMS DELIVERED
AHEAD OF SCHEDULE

Edison migrated 100 percent of its SAP systems on an 18-month timeline for completion. Two SAP ERP Central Component (ECC) systems were consolidated into one SAP S/4HANA instance, and its former SAP Supplier Relation Management (SRM) system was replaced with a modern SAP Ariba system. Through robust SAP on AWS foundations and the efforts of IBM Consulting's innovative planning and development, the entire migration and modernization of Edison's SAP systems was delivered on time, within budget, and with zero unplanned downtime incidents. Six critical departments fully updated their SAP systems on AWS, yielding cross-departmental improvements, lower infrastructure costs, and better flexibility. With the transition to SAP S/4HANA, Edison gained a modern enterprise resource planning (ERP) system, improved real-time analytics, and simplified custom functions providing it with greater control and predictability, along with the security and flexibility needed to manage its national energy operations.

IPG accelerates SAP migration while maintaining reliable global service

A streamlined SAP migration and modernization helps a global marketing firm accelerate infrastructure performance and reduce overhead costs.

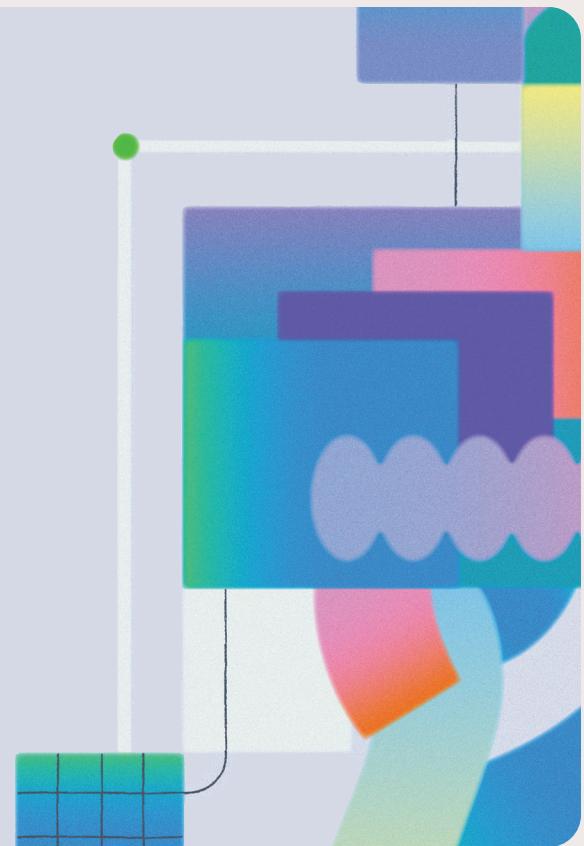
OVERVIEW

Interpublic Group (IPG), a global marketing solutions provider with a vast network of subsidiary groups, migrated its critical SAP systems to Amazon Web Services (AWS) with the help of AWS Partner IBM Consulting® as part of a corporate initiative to exit its on-premises data center and improve scalability. The four-month project, completed on time and within budget, optimized SAP workloads in the cloud, increasing infrastructure performance by 20 percent. The seamless migration allowed IPG to continue onboarding clients and maintain business operations without disruption, helping the company reduce operational overhead and enhance service delivery.

“

We couldn't afford any business downtime or business interruption... We worked closely with IBM and AWS teams to rearchitect this platform. Our purpose was to reduce costs and ensure the environment was flexible and scalable—also, secure.”

ORHAN OZALP,
VP, GLOBAL SAP,
INTERPUBLIC GROUP

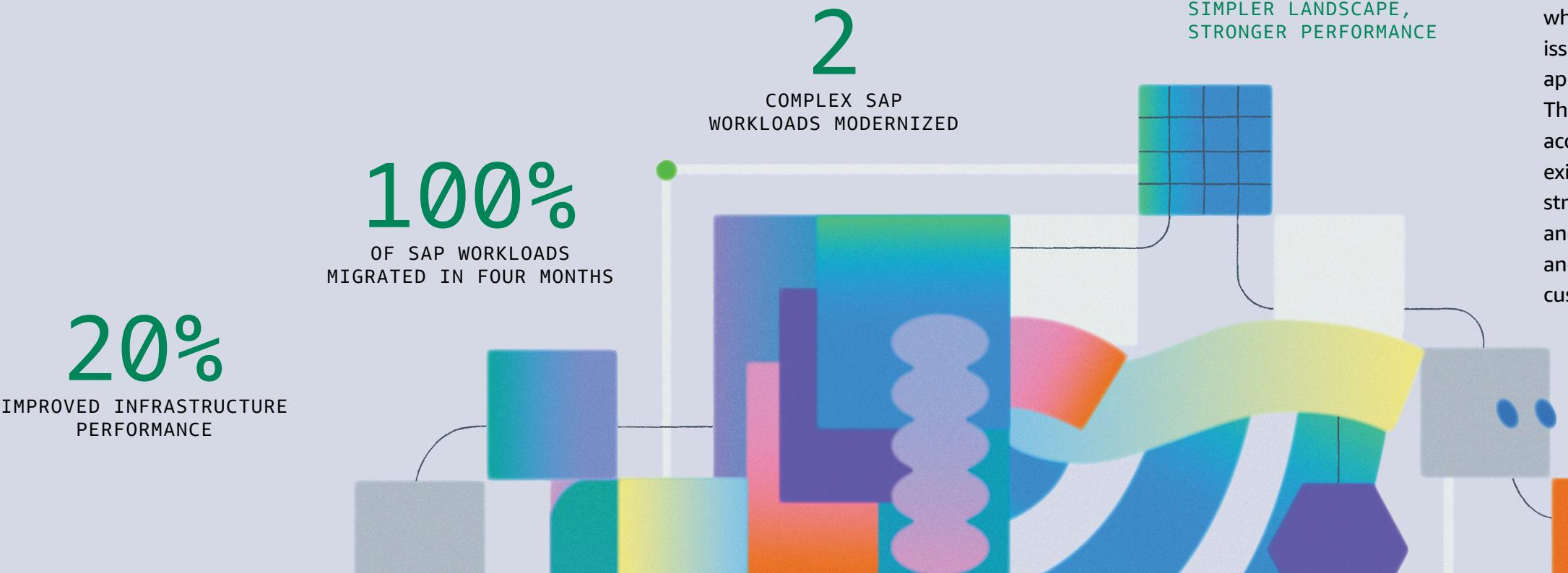


OPPORTUNITY:
COMPLEX DATA
CENTER EXIT

IPG manages a vast network of subsidiary marketing groups that facilitate a wide portfolio of projects for Fortune 500 brands, advocacy groups, sporting events, healthcare campaigns, and more. With \$10 billion in annual revenue booked on SAP, its global operations were tied to two critical SAP instances with an on-premises data center, meaning that one or two days of downtime could result in significant losses to revenue, day-to-day operations, and workload integrity. IPG needed a scalable cloud SAP infrastructure that could be deployed seamlessly and, most importantly, achieve quick time to value with minimal disruptions. IPG planned to exit its on-premises data center in Omaha, NE, and move legacy workloads to AWS, but the complexity of migrating SAP instances (including development, quality assurance, and production environments) posed a significant technical challenge. IPG turned to IBM Consulting to help manage the migration efficiently with the help of AWS native services and toolsets.

SOLUTION:
STREAMLINED MIGRATION
WITH AWS

IBM Consulting devised a scalable foundational architecture for IPG's migration to AWS, ensuring it met both current and future needs. Rather than a simple lift and shift, IBM approached it as a complete redesign. The team leveraged AWS native toolsets and automation, including AWS Launch Wizard for SAP, which streamlined the migration process by guiding IPG through the sizing, configuration, and deployment of SAP applications. The solution included migrating SAP environments to AWS while optimizing applications to meet performance criteria. IBM Consulting, AWS, and IPG operated smoothly as one team, collaborating to fully migrate two SAP instances to AWS within budget and on time (four months). The hybrid-by-design solution resulted in light customization of applications and architecture to meet on-premises requirements and keep data and applications closer together, which was achieved using AWS toolsets.



JAL streamlines SAP migration to keep innovation soaring

A new financial reporting platform helps an airline depart from manual processes and ascend to high-caliber business insights.

OVERVIEW

Japan Airlines Co., Ltd. (JAL) is on a mission to elevate business operations in order to serve customers better. But it can be difficult to lift off into new territory when finance and accounting teams are working against headwinds of legacy technology and even paper-based processes. JAL needed to design a next-generation finance system to help it navigate the skies ahead. The company partnered with IBM Consulting to help upgrade its eJAL platform, a custom finance and accounting system based on SAP solutions, and migrate it to SAP S/4HANA. To align with its cloud strategy, JAL deployed the new system on SAP HANA Enterprise Cloud (HEC) with AWS.

“

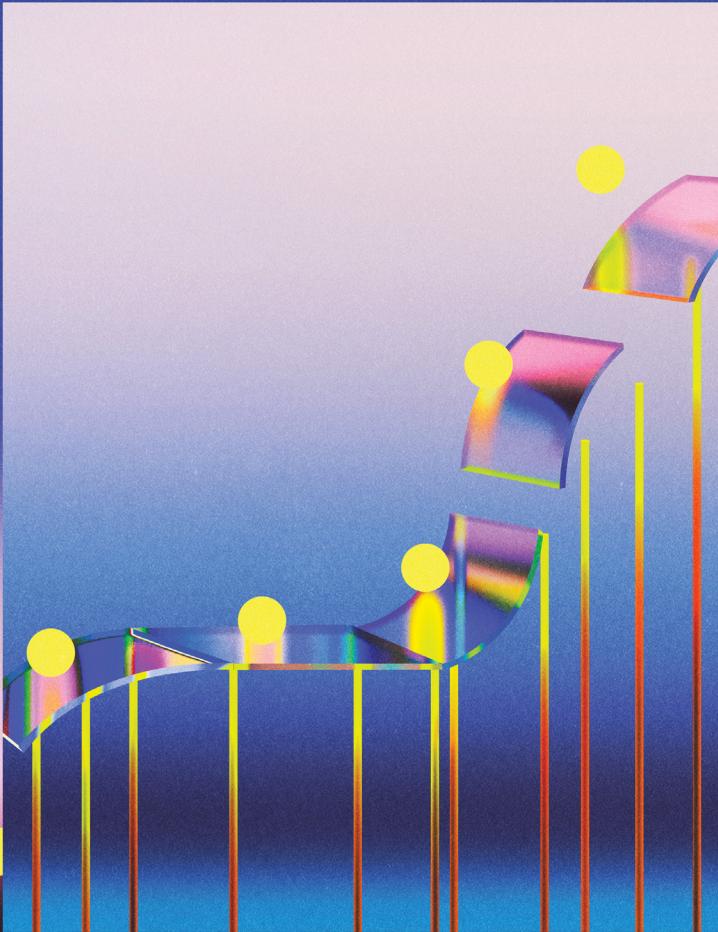
We selected SAP HANA Enterprise Cloud with AWS because it works securely and seamlessly with CIEL/S, our internal hybrid cloud infrastructure.”

—TAKAFUMI ASAOKA, MANAGER, GENERAL ADMINISTRATION SYSTEMS, IT PLANNING & PROMOTION DEPARTMENT, JAPAN AIRLINES CO., LTD. (AT THE TIME OF INTERVIEW)

OPPORTUNITY:
CLOUD-POWERED BENEFITS

Choosing a cloud deployment brings several benefits on board:

SAP HEC with AWS works seamlessly with JAL's internal infrastructure, allowing the company to migrate older applications without significant business disruption. The cloud reduces IT management burden, with no hardware to maintain, giving IT personnel more time for higher-value projects. The cloud also makes it possible to elastically scale server resources in line with current demand, support data recovery during unplanned events, and maintain high availability. This helps JAL deliver exceptional service continuity to passengers.



60%

REDUCTION IN SAP
CUSTOMIZATIONS

100%

REMOTE
DEPLOYMENT

SOLUTION:
REMOTE SAP S/4HANA
DEPLOYMENT ON AWS

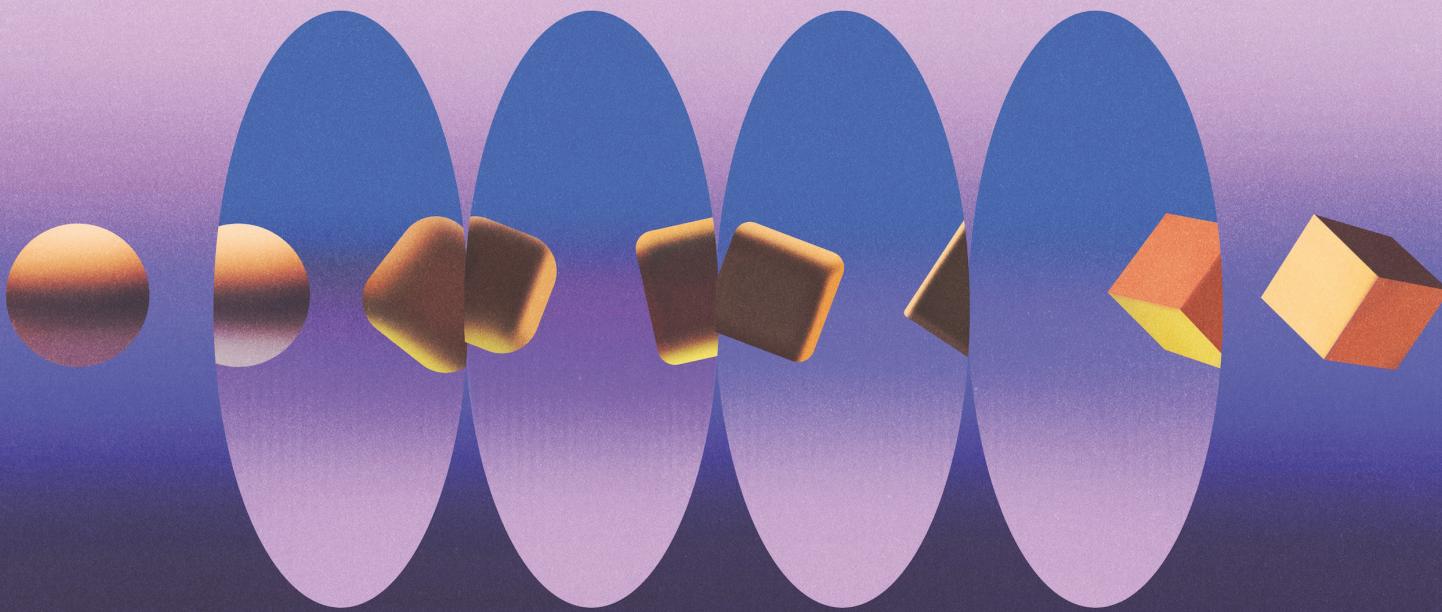
Guided by IBM through a completely remote deployment, JAL got the new system up and running on schedule and eliminated manual analytics processes, enhancing accuracy and speed in its planning and forecasting activities. It also unlocked visibility of cross-company cash flow, costs, shared assets, and more. The company has even enabled new functionalities, including support for Bankers' Automated Clearing System (BACS) electronic payments for employees based in the UK.

OUTCOME:
ELEVATING THE
CUSTOMER JOURNEY

Now JAL is utilizing new insights from eJAL to enhance service for its customers and drive efficiency. For example, the company is analyzing the cost per flight in greater detail and creating visual dashboards to enable data-driven decision making in near-real time—accelerating business processes and fostering innovation to improve every customer journey.

PCBL Limited automates data and boosts business performance with SAP modernization

A global manufacturer transforms the way it does business with an upgraded cloud SAP architecture.



OVERVIEW

PCBL Limited (formerly Phillips Carbon Black Limited), a global leader in carbon black manufacturing, undertook a major SAP digital transformation initiative to modernize its on-premises systems. With the help of Amazon Web Services (AWS) and IBM Consulting[®], the company migrated its SAP infrastructure to the cloud, optimizing business processes and improving scalability. The modernization enabled faster data processing, streamlined operations, and deeper visibility into day-to-day activities. Automation played a key role, with 85 percent of data conversion processes automated and critical transaction speeds increasing by 50 percent. This transformation helped to maintain its competitive edge, enhance decision-making, and adapt to the changing needs of its global supply chains.

85%
OF DATA CONVERSION
PROCESSES AUTOMATED

30%
FASTER APPLICATION
RESPONSE TIME

>50%
FASTER
TRANSACTION SPEED

OPPORTUNITY:
SAP DIGITAL
TRANSFORMATION
INITIATIVE

PCBL Limited, a prominent carbon black manufacturer, needed to modernize its legacy SAP enterprise resource planning (ERP) system to support its vast global operations. Using SAP ERP Central Component (SAP ECC) on premises to manage critical business processes, the company recognized that a scalable, cloud SAP S/4HANA solution was essential for business continuity and growth. The shift aimed to streamline operations, open the door for AI, machine learning (ML), and Internet of Things (IoT) integration, and reduce hardware costs. With a focus on efficiency, the cloud migration aligned with the company's broader digital transformation efforts and would require collaboration with experienced providers to ensure a seamless transition.



By partnering with IBM, AWS, and SAP, PCBL Limited is in a strong position to stay lean and agile as we rapidly grow our operations around the world."

—DIPAN SENGUPTA, IT HEAD,
PCBL LIMITED



SOLUTION:
CLOUD SAP S/4HANA
ON AWS ARCHITECTURE

PCBL Limited migrated its legacy SAP systems to the AWS Cloud and upgraded them to cloud SAP S/4HANA on AWS architecture with IBM Consulting designing automation and application solutions. Built on the AWS Well-Architected Framework, the migration improved data processing, reporting, and real-time analytics. The intuitive SAP Fiori interface enhanced the user experience, while the scalable AWS infrastructure allowed for dynamic ERP access, identity management, and seamless system performance. The switch to in-memory computing in the new SAP S/4HANA environment provided faster insights, deeper visibility, and data-driven decision-making. The high availability and on-demand nature of AWS infrastructure enabled secure, real-time operations and allowed for rapid provisioning without upfront costs, lowering the total cost of ownership.

OUTCOME:
OPTIMIZED DATA
TRANSACTIONS
AND FASTER
TIME TO VALUE

Migrating to SAP S/4HANA on AWS transformed PCBL Limited's operations and reduced infrastructure costs with a pay-as-you-go model. With IBM Consulting's support, the company automated 85 percent of data conversion processes and achieved 30 percent faster application response times. Critical transactions became more than 50 percent faster, improving overall business performance. The SAP Fiori interface on AWS provided real-time data analysis, empowering leadership to make quicker, data-driven decisions. The migration consolidated SAP access and eliminated unnecessary add-ons, positioning PCBL Limited for future growth and technological advancements to continue improving its service to clients and customers.

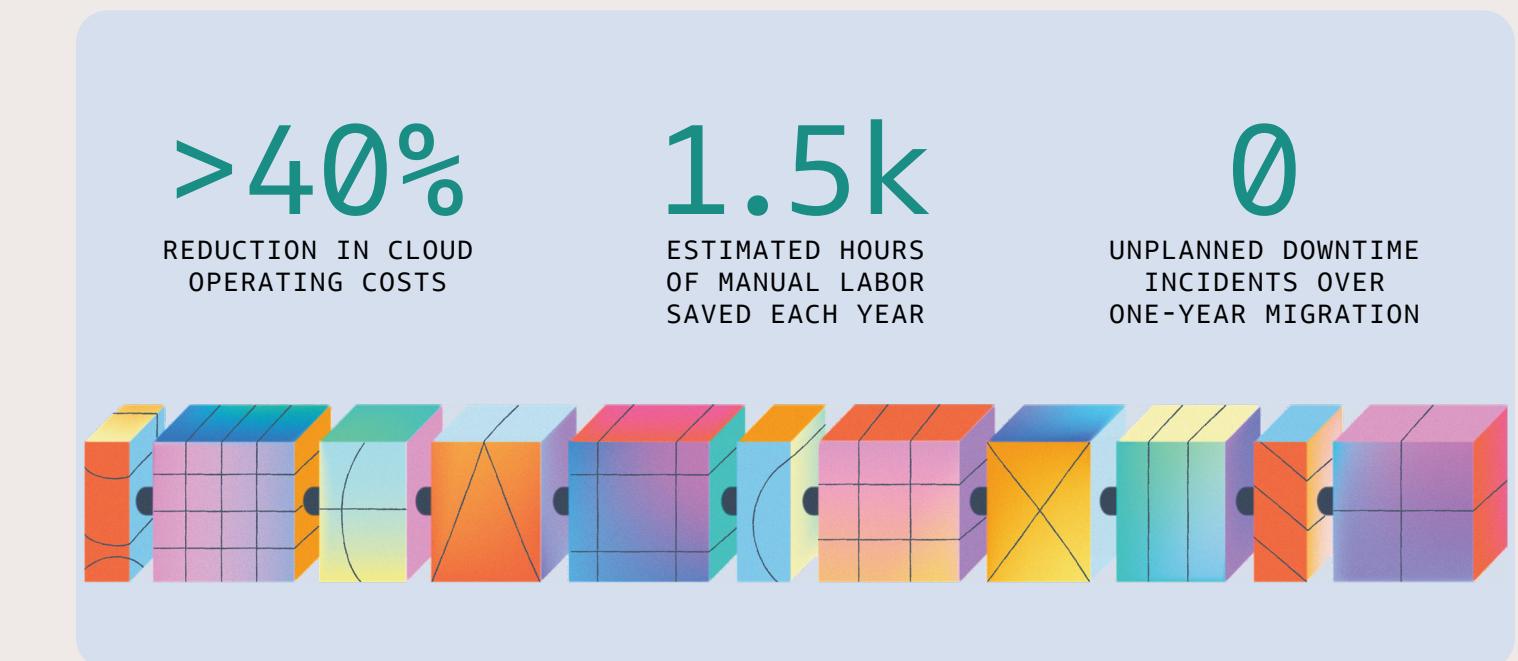
Keeping Water Corporation flowing efficiently with a cost-saving SAP migration

A new cloud SAP infrastructure helps an Australian water utility company deliver on its goals of reliable service and environmental sustainability.



OVERVIEW

Water Corporation, a state-owned water utility managing critical services for residents across Western Australia, faced the challenge of migrating and modernizing its mission-critical SAP systems in the cloud. With the support of Amazon Web Services (AWS) and IBM Consulting®, Water Corporation successfully transitioned 125 SAP servers to modernized infrastructure with no unplanned downtime. The migration also reduced operational costs by over 40 percent and saved roughly 1,500 hours of manual labor. Additionally, the cloud transition helped Water Corporation align with its sustainability goals, reducing carbon emissions while maintaining uninterrupted services throughout the 12-month project.



OPPORTUNITY:
COMPLEX SAP MIGRATION

Water Corporation, a utility company managing water services for over 1.3 million residents in Western Australia, relies heavily on SAP systems for critical operations like pipeline management, finance tracking, and service uptime. With aging on-premises servers nearing end-of-life, Water Corporation launched a modernization initiative to move SAP to the cloud. Key goals included avoiding new hardware purchases and aligning with its commitment to net-zero carbon emissions by 2035. The strategy aimed to enhance sustainability, streamline operations, and digitize business processes. However, migrating 50 terabytes (TB) of data and decoupling numerous system integrations presented significant challenges, requiring outside expertise to ensure data integrity throughout the transition.

“

The cooperation, care, and dependability we saw from IBM and AWS was invaluable. They understood our systems, our data, and our integrations.”

—BRAD FILMER, MANAGER, ENTERPRISE APPLICATIONS, WATER CORPORATION

125
SAP SERVERS
MIGRATED

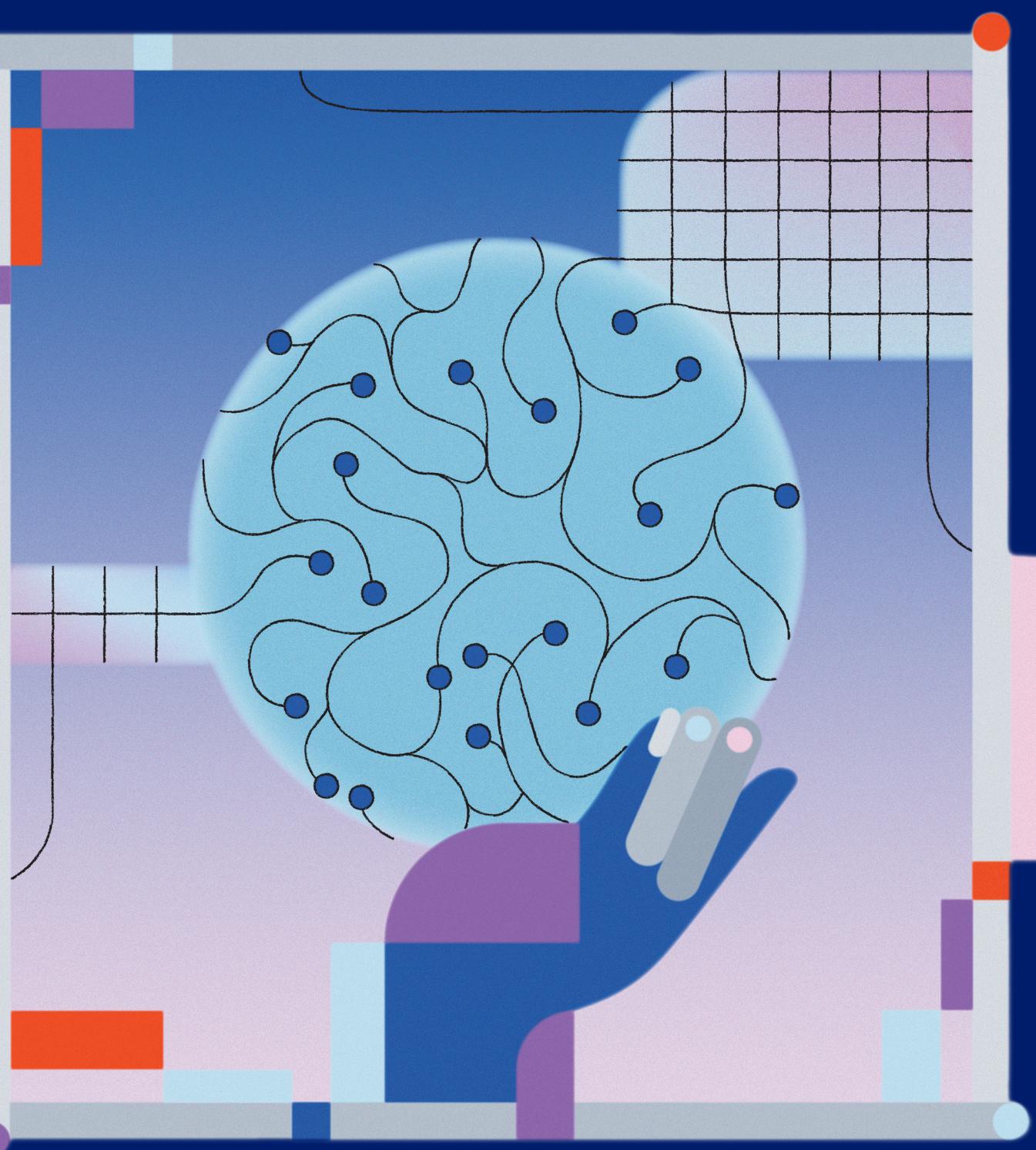
SOLUTION:
MODERNIZATION ON
AWS ARCHITECTURE

OUTCOME:
LOWER COSTS AND
SCALABILITY KEEP
WATER FLOWING

150
ESTIMATED METRIC TONS
OF CARBON EMISSIONS
SAVED ANNUALLY

Water Corporation partnered with AWS and IBM Consulting to migrate its critical SAP systems to the cloud. With over 16 years of experience supporting SAP, AWS infrastructure ensured minimal disruption and delivered optimal results. IBM Consulting led the design of the cloud architecture, using a three-phase migration strategy: transferring transactional systems, then data analytics, and finally management systems. AWS provided the foundation with seamless SAP workload management and support. The AWS Well-Architected Framework guided the process, while AWS CloudFormation enabled rapid infrastructure deployment, accelerating migration efforts and reducing operational costs.

AWS and IBM accelerated Water Corporation’s SAP migration, moving over 125 servers and 50 TB of data. The migration cut SAP cloud environment costs by over 40 percent and saved approximately 1,500 hours of manual labor annually, thanks to automation on AWS infrastructure. The one-year migration was completed with zero unplanned downtime incidents, significantly improving system deployment times. Additionally, the AWS Cloud enabled Water Corporation to reduce carbon emissions by approximately 150 metric tons annually. The successful collaboration between AWS and IBM continues to support Water Corporation’s strategic goals and ensure efficient management of SAP workloads.



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