



eBook

# Achieve measurable business success through cloud transformation

Stay competitive in the digital age by migrating  
to AWS with T-Systems



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# Becoming a modern business

To remain competitive and win in the digital era, today's businesses must adapt to rapidly changing market conditions, manage and derive insights from massive volumes of data, and meet the rising demands of today's always-on customers. In short, they must modernize—rethinking processes and leveraging technology to seize opportunities earlier, maximize the value of their investments, and innovate faster.

The impacts of the COVID-19 pandemic are further driving the need for these changes. Businesses across many industries must now move even faster to embrace new work styles and reduce costs. Recent research suggests that more than 90 percent of enterprises are accelerating cloud adoption plans because of COVID-19.<sup>1</sup>

Many organizations are instituting cloud transformation initiatives in response to these growing pressures. They're embracing new ways of building applications and services, connecting previously siloed data, and streamlining processes to accelerate innovation and delight their customers.

Cloud transformation promises substantial rewards, with leading companies achieving critical business advantages such as higher productivity, faster time to market, and a stronger bottom line.

Reaching these rewards can prove challenging, however. Cloud transformation involves far-reaching changes to technology, processes, and culture.

Read on to discover how cloud transformation works, why it's important, and how your organization can realise the associated benefits by migrating to Amazon Web Services (AWS) with solutions from AWS Partner T-Systems.

<sup>1</sup> State of the Cloud Report, Flexera, 2021.

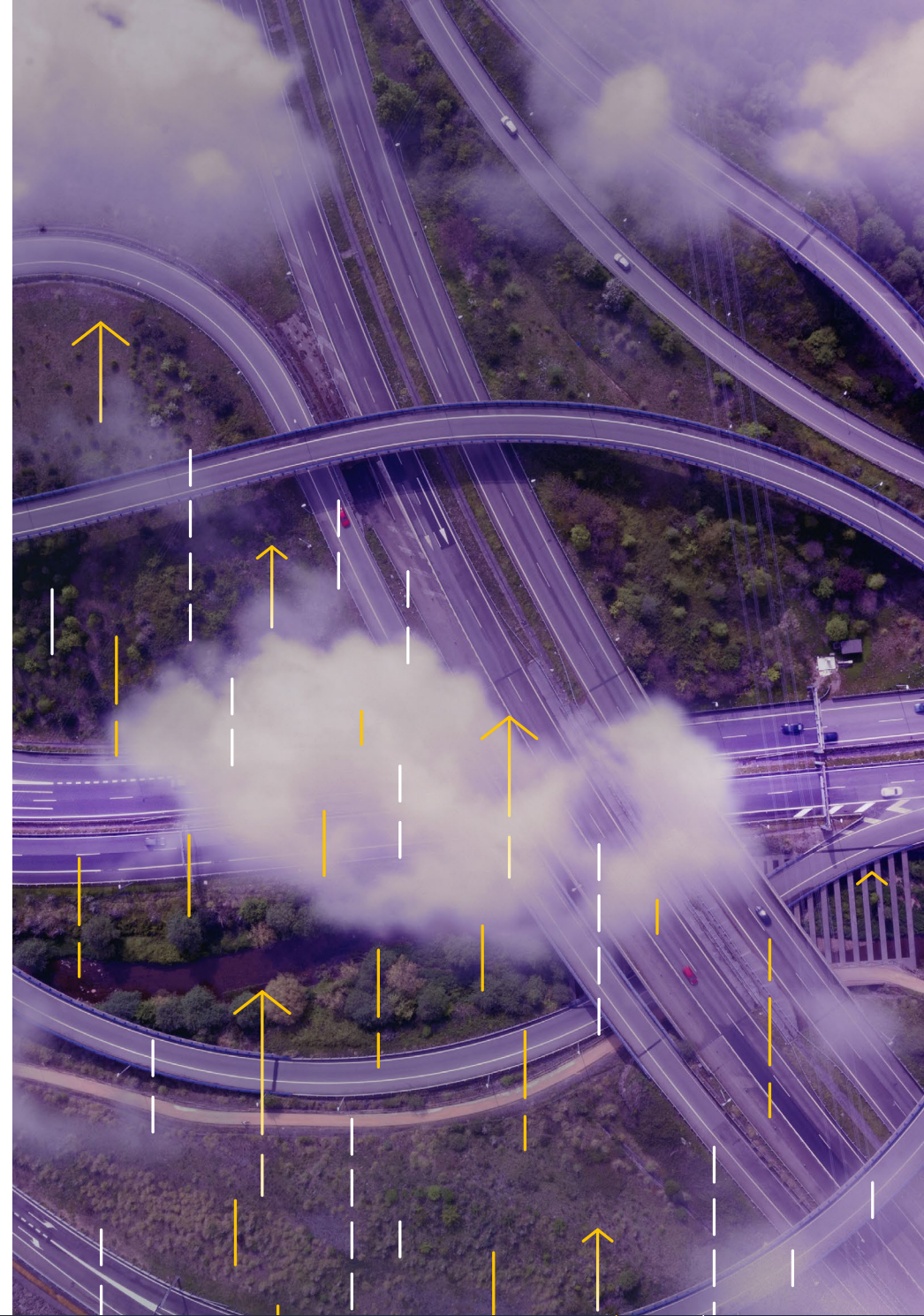


# Accelerating modernisation with cloud migration

The cloud provides the ideal environment for modernisation. Working with a cloud service provider or hyperscaler allows you to access and benefit from powerful hardware, software, and services. This also enables your IT team to spend less time on infrastructure maintenance and more time focusing on customer needs and pursuing differentiating work.

The cloud makes it possible to convert IT investments from fixed to variable, helping you improve cost-efficiency through pay-per-use models. The right cloud service provider or hyperscaler can provide you with high availability; fast, efficient storage; and strong security so you can protect your reputation and your assets. And the cloud can give you peace of mind for the future. You can scale up or down as your needs change, and your provider will take care of any updates and patches, removing the operational burden from your team.

But before you can take advantage of the cloud, you'll need to embark on a cloud migration journey.



# Why migrate to AWS?

To boost innovation, respond quickly to changing demands, and drive business transformation, organizations are migrating their infrastructure and applications to AWS. Modernising on AWS enables streamlined operational practices that lead to measurable results.

On average, migrating to AWS delivers:



**31%**

average infrastructure  
cost savings<sup>2</sup>



**62%**

more efficient infrastructure  
management<sup>2</sup>



**3x**

more features  
delivered per year<sup>2</sup>



**69%**

reduction in  
unplanned downtime<sup>3</sup>



**43%**

fewer security  
incidents per year<sup>3</sup>

Clearly, migrating to AWS offers many benefits and opportunities. But successful migrations take planning and expertise, as well as an understanding of the challenges you're likely to face as part of the process.

By understanding those challenges, and with an experienced AWS Migration Competency Partner like [T-Systems](#) by your side, you can accelerate your cloud journey and achieve cloud benefits faster.

<sup>2</sup> [Fostering Business and Organizational Transformation to Generate Business Value with Amazon Web Services](#), IDC, February 2018.

<sup>3</sup> [Guidebook Understanding the Value of Migrating from On-premises to AWS for Application Security and Performance](#), Nucleus Research, June 2020.

# A migration approach that sets you up for success

Cloud migration can be a complex journey. It is important to have the proper support and guidance when you need it. T-Systems is an AWS Migration Competency Partner that offers end-to-end services to help customers navigate their entire cloud journey. With a footprint in more than 20 countries, T-Systems offers a “one-stop shop” approach to migration. Their expertise extends from secure operation of legacy systems and classical ICT services to comprehensive cloud-based migrations and innovation projects.

By aligning to AWS best practice guidance, including the AWS Migration Acceleration Program (MAP), T-Systems can help you establish foundational readiness, execute your migration, and achieve cloud transformation.

MAP follows a three-phase approach for migrations:

## 1. Assess:

The migration readiness assessment helps you identify gaps along the six groups of foundational perspectives of the [AWS Cloud Adoption Framework](#) - Business, People, Governance, Platform, Security, and Operations, totaling 47 discrete capabilities. This assessment enables you to identify the capabilities required in the migration and build a TCO model for your migration project.

## 2. Mobilise:

The mobilise phase helps you build an operational foundation for your migration, with the goal of fixing the capability gaps identified in the assessment phase. The mobilise phase accelerates your migration decisions by providing clear guidance on migration plans that improve the success of your migration.

## 3. Migrate and modernise:

Execute the migration plan developed during the mobilise phase with the help of an AWS Partner like T-Systems.



Assess



Mobilise

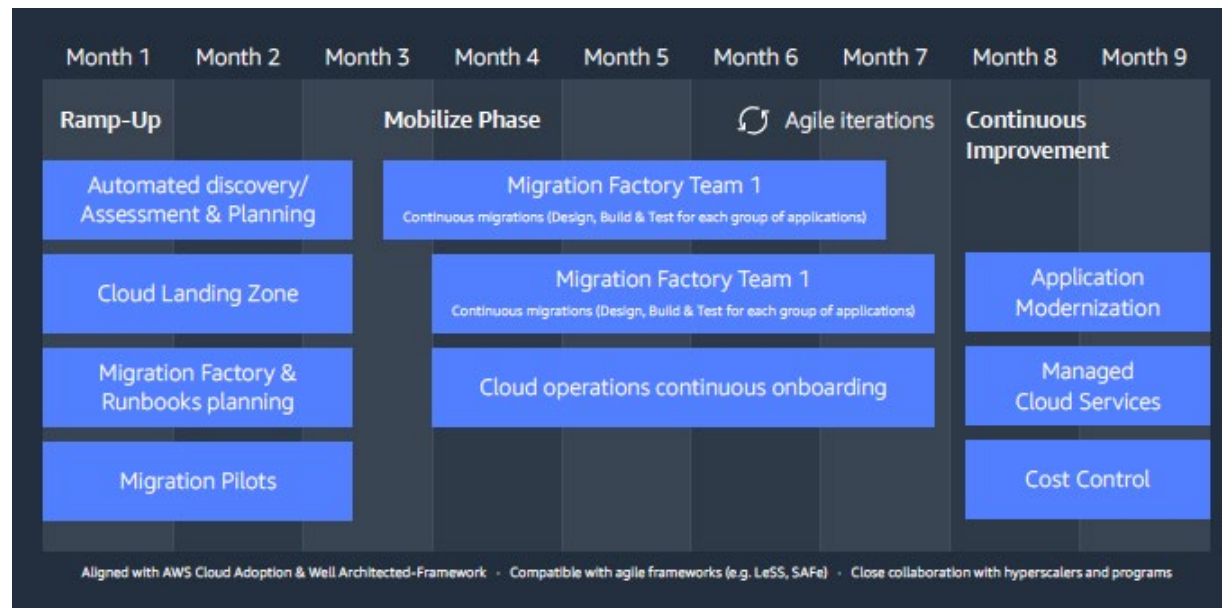


Migrate and modernise

**The AWS Migration Acceleration Program (MAP)** is a complete and proven cloud migration program based upon AWS's experience of migrating thousands of customers to the cloud. The program packages best practices, tools, expertise, financial incentives, and the expertise and solutions delivered by AWS Partners to make cloud adoption easier and help customers reach their business goals faster.

# T-Systems cloud transformation framework for AWS

T-Systems supports business partner across their entire migration journey to AWS. To achieve this, T-Systems Migration Framework for AWS has been designed to support customers using a multi-stage approach. The framework is as follows:



During the Ramp-Up Phase T-Systems help business partners with standardised assessments to start their cloud journey. This might include building a cloud center of excellence (CCoE), defining a landing zone, creating a business base and migration plan, and integrating new standards for governance & security. This assessment allows workstreams to be defined with an actionable timeline for each task.

In the Migration Phase multiple cloud migration factory teams (CMF) work in agile methods to migrate the applications defined in the backlog. Based on migration patterns that are in scope of the CMF, a continuous onboarding to the operations team or managed service provider is part of the end-to-end migration factory.

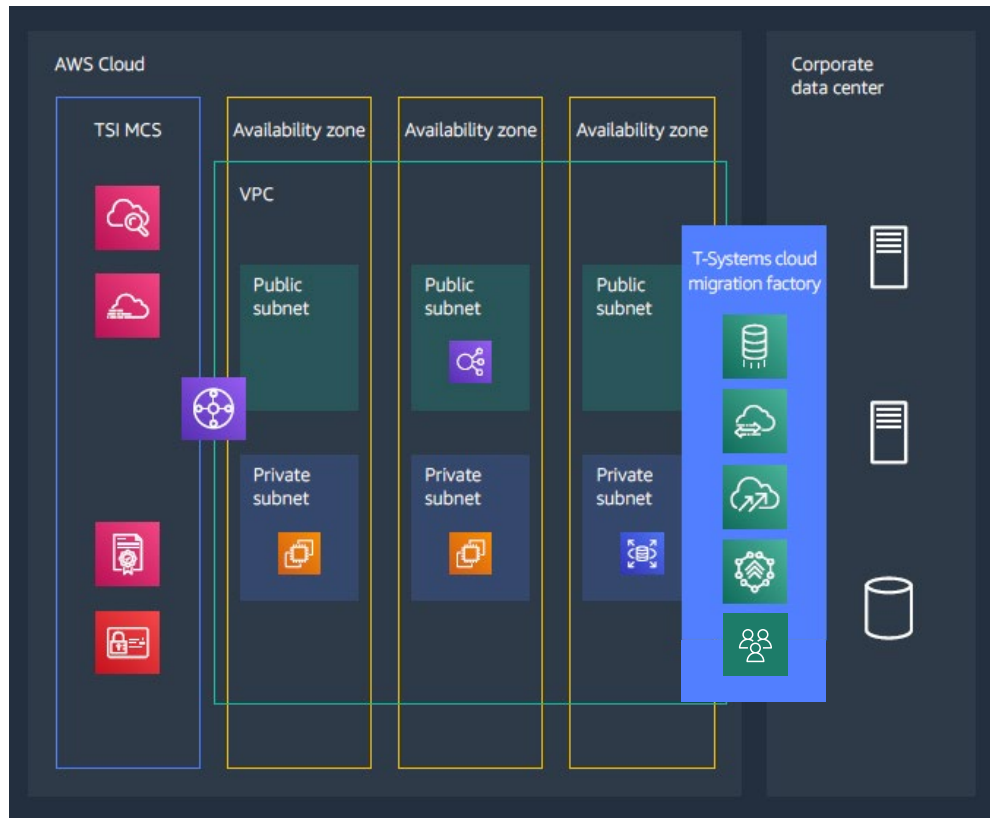
In the Continuous Improvement Phase T-Systems aims to support business partners using a CCoE with right-sizing, effective cost management and operational improvements. This enables new possibilities for application optimization on AWS — including improvements to scalability and flexibility, while increasing the potential for continuous improvement as time goes on.



# The T-Systems Migration Factory

The T-Systems Migration Factory is composed of highly specialized teams who work to guide customers through their migration, successfully implementing and iterating along the cloud journey. A high degree of automation and scaling leads to accelerated migration execution.

The following diagram shows a typical Migration Factory:



For T-Systems migration is just the beginning, as once the transition to AWS has been made operation must be guaranteed across the entire lifecycle of business workloads. T-Systems develops relationships that provide customers with continuous support on their cloud journey.



# Case study: Indonesian hospital group Mitra Keluarga migrates its IT to AWS with help from T-Systems

Mitra Keluarga, or MIKA for short, is a company offering premium health services in Indonesia. Mitra Keluarga embarked on a digital transformation journey with T-Systems due to scalability limitations, skillset, quality, and frequent downtime issues with their on-premise data center operated by a local service provider. After project completion the comprehensive landscape including development systems, QA, pre-production, and production systems are now on AWS.

## Challenge

In the past, MIKA's clinical IT repeatedly failed which resulted in significant disruption to patient care. MIKA therefore decided to replace the traditional on-premises operation and migrate the systems to the AWS Cloud. This would be a significant undertaking, and the migration timeline was ambitious at 3 months. In addition, 100 percent of work needed to be carried out from home-based offices due to coronavirus restrictions. The teams were also spread across disparate time zones and needed to undertake complex integration testing between SAP Healthcare and ancillary systems.

## Solution

MIKA found a reliable partner in T-Systems, who offered both AWS expertise as well as SAP experience and was already implementing SAP Healthcare for the hospital chain. T-Systems developed a blueprint for the migration and assumed the entire migration process. This included the setup and organization of the new infrastructure on the AWS Cloud in Singapore, including the network setup, the migration of SAP and non-SAP systems, and establishment of a secure access concept via multi-factor authentication, password policies, and a central identity and access management.

## Customer outcomes

The entire migration process was fully completed in a record time of only three months – from February to April 2020 – during the global coronavirus pandemic.

[Read the full case study >](#)

**“By operating in the AWS Cloud, we have made ourselves future proof. In the event of further acquisitions, new locations can be quickly connected to the central backend. In doing so, we ensure that work is carried out with the same efficient processes throughout the company.”**

— MIKA IT Leadership

# Case study: T-Systems helps BR Matozinhos migrate SAP landscape to AWS

BR Matozinhos is a casting company with extensive experience in the supply of a wide range of grey cast and nodular iron parts, also providing finished goods to a diverse array of industries like renewable energy, construction leaders, mining companies, and agribusiness. T-Systems was able to offer one migration to AWS plan considered the safest strategy for BR Matozinhos business.

## Challenge

In 2017, SIFCO group faced a carve-out process and the SAP landscape had to be segregated across its companies. The same technological characteristics were maintained, but BR Matozinhos needed a hardware capacity, licensing, and services review. For that reason, BR Matozinhos approached T-Systems, its IT partner, looking for a new high-performance infrastructure that could adapt to business changes while possibly reducing IT costs. In addition, BR Matozinhos needed to migrate the data with the lowest possible downtime to avoid impact on both development teams and production.

## Solution

T-Systems proved it was possible to move the SAP environment to AWS with the same requirements from their existing on-premise platform. To make that possible, some procedures and automated scripts were implemented, allowing the existing contracts provisions and SLAs to also be accomplished in the cloud.

## Customer outcomes

With AWS, T-Systems and BR Matozinhos are able to continue providing operation excellence to their customers, which includes tools and processes like incident management, change management, and capacity planning.

[Read the full case study ›](#)

**“BR Matozinhos SAP is running on AWS since June 2019 and it has been achieving the 100% availability SLA. After this BR Matozinhos’ experience with cloud-based solutions, I understand that new opportunities for non-SAP solutions can be pursued.”**

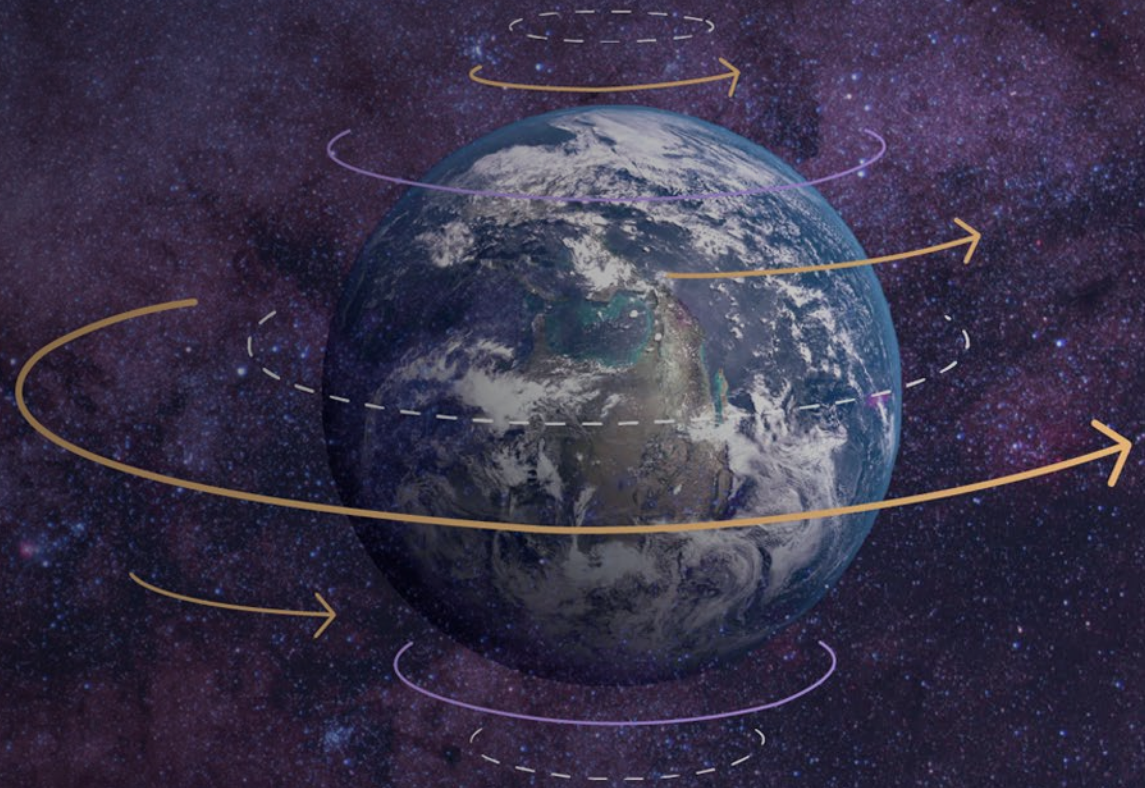
— André Luiz Nascimento Azevedo, IT department head, BR Matozinhos



# Ensure a smooth AWS migration with T-Systems

Together with AWS, T-Systems has created best practices for successfully and securely migrating your systems to AWS. T-Systems can help you navigate every step of your AWS migration so that you can achieve the benefits of cloud transformation faster.

[Get started with an AWS Migration Readiness Assessment from T-Systems](#)





The AWS logo consists of the lowercase letters 'aws' in a white, sans-serif font. Below the letters is a curved orange arrow pointing from left to right, which is the Amazon logo's signature element.

aws migrations