

Mastering your GenAI destiny

A strategic guide on generative AI readiness and
modernization with application services



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As organizations increasingly adopt generative AI (GenAI) technologies, the need for a comprehensive readiness strategy becomes paramount.

This guide delves into three areas critical to preparing your application landscape for GenAI: mainframe modernization, cleaning up code and data, and updating compliance and governance frameworks.

By addressing these areas, businesses can harness GenAI's full potential, innovate and compete successfully.



Modernize your systems



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Overhaul your infrastructure and migrate away from legacy systems that will prevent your business from taking full advantage of GenAI capabilities.

Mainframe systems are often seen as the backbone of large-scale enterprise operations. But they require modernization to support the advanced capabilities of GenAI. This involves transitioning from legacy systems to more flexible, scalable platforms that can integrate with GenAI technologies.

The need for modernization

Mainframes are robust and reliable but often lack the agility needed for the dynamic deployment of GenAI applications. Modernization allows organizations to access the speed and efficiency of cloud-based environments, which are better suited to the demands of GenAI.

Approaches to modernization

One effective approach to mainframe modernization is the low-risk path of using a solution like UniKix by NTT DATA. UniKix is our proven application rehosting software that can reduce operating costs by up to 70%

while preserving valuable business logic. This method provides flexibility and scalability while being cost-effective. By modernizing mainframes, businesses can eliminate silos and improve their IT infrastructure’s responsiveness to GenAI demands.

Benefits

Modernizing your mainframes makes it easier to handle the computational intensity of modern GenAI capabilities. It is a fundamental requirement for GenAI applications. A modern infrastructure will improve data handling and directly translate to better GenAI performance. It allows larger datasets to be processed and analyzed, give more accurate insights and enable faster decision-making.



Clean up your code and data



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GenAI outputs are only as good as the sources that feed them. To fully harness the potential of this cutting-edge technology, it is crucial to prepare your data and code for GenAI integration.

With the rise of GenAI agents that can take action on a user's behalf, integrating GenAI with legacy applications can be problematic at best and perilously costly at worst. And, what's more, inaccurate or poorly structured data can lead to suboptimal outcomes.

Importance of clean code and data

The success of GenAI heavily relies on the quality of data and the efficiency of the underlying code. Cleaning up data and code is essential to make sure GenAI systems function optimally and deliver reliable outputs.

Strategies for code and data clean-up

Organizations should start by auditing their existing data and codebases to identify areas for improvement. This involves removing redundant data, correcting errors and making sure data is well-organized and accessible. For code, refactoring and optimizing existing algorithms are crucial steps. Doing so improves efficiency and compatibility with GenAI technologies.

Tools and technologies

Several tools can facilitate the clean-up process. For example, AI-enhanced data cleansing, mapping and migration tools can automate the detection and correction of quality issues. Similarly, code review tools and modern integrated development environments (IDEs) can help streamline and optimize codebases for GenAI readiness.



Strengthen your compliance and governance



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It is crucial to ensure that your compliance processes are updated to meet the ethical and regulatory considerations associated with this cutting-edge technology.

GenAI changes business operations. To keep pace, regulatory, compliance and governance frameworks must also evolve. It will help organizations address new challenges and risks associated with these technologies.

Regulatory challenges

Deploying GenAI involves several regulatory considerations. These include security, data privacy, intellectual property rights and compliance with industry-specific regulations. Organizations must navigate these complexities to deploy GenAI solutions legally and ethically.

Compliance and governance

Effective governance frameworks are essential to manage the risks and reap the rewards associated with GenAI. This includes establishing clear policies for data usage, model training, proper quality engineering standards and processes, and output monitoring. Such frameworks help ensure GenAI applications are transparent, accountable and free from bias.

Modernizing governance frameworks

GenAI requires organizations to do more than just update existing policies and procedures. To modernize governance frameworks, organizations should incorporate processes and tools that engages stakeholders to estimate value and guides risk evaluation across multiple dimensions (such as data readiness and model complexity). Effective governance is not a one-time exercise. It also requires continuous risk assessment, quality assurance, and ongoing monitoring to provide the proper transparency and service insights and integrate ethical considerations into GenAI projects.

Ensuring compliance

A robust legal and compliance strategy is important when addressing the regulatory challenges GenAI poses. It will help organizations maintain successful business operations. This strategy should be comprehensive and cover aspects such as cross-border data flows, security, service insights, intellectual property management and adherence to emerging regulations like the European Union's Artificial Intelligence Act.



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Working with a third-party service provider like NTT DATA is crucial for organizations preparing to integrate GenAI into their operations. Business leaders trust NTT DATA to accelerate AI initiatives with simplicity and impact. We have over 50 years of experience providing IT services to clients across the globe and have built a deep understanding of industry-specific challenges and the latest technological developments.

NTT DATA Application Services take an comprehensive approach to GenAI readiness that addresses the entire spectrum of needs, from new product design and development, application and mainframe modernization, and code optimization to regulatory compliance. Modernizing core systems and using advanced technologies help organizations not only meet current GenAI demands but also future-proof their initiatives against evolving tech trends. Our proactive strategies for navigating the complex regulatory landscapes that govern GenAI usage show our commitment to innovation. It ensures that organizations remain compliant while harnessing the power of GenAI.

Organizations that partner with NTT DATA have access to specialized knowledge and cutting-edge solutions that might be out of reach internally. By collaborating with us, companies can fast-track their GenAI initiatives, reduce the risks associated with new technology adoption and enhance their competitive edge in a rapidly changing digital landscape.



Ignite tomorrow, today.

Preparing for the innovations of tomorrow is key for any business to ensure you can optimize on the latest GenAI capabilities. Our global delivery teams have the expertise you need to get future-ready now. Don't wait for the future to come to you.

Ready to begin your GenAI journey? We're here to talk.

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NTT DATA is a trusted global innovator of business and technology services, helping clients innovate, optimize and transform for success. As a Global Top Employer, we have diverse experts in more than 50 countries and a robust partner ecosystem. NTT DATA is part of NTT Group.

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