




Business-friendly Solutions

---

# AI Accelerators to Enable ROI-focused Cloud Modernization with Lower CAPEX

---






The IT industry has undergone a significant transformation over the past decade. However, the transformation started earlier, in the 1970s and 1980s, driven by technological innovation, business demands, and societal shifts. More recently, among the most important changes has been the growth of cloud as an alternative to physical data centers. Interestingly, businesses have been cautious and slow in adopting cloud. The perception that modernizing IT for cloud requires significant initial investments has been among the principal inhibitors. This perception is set to change with the rise of Artificial Intelligence (AI).

For a while, until around 2010, technological evolution was skewed. Most innovation focused on software. Programming languages became more expressive, frameworks advanced, and application architectures adapted to support complex business logic. In contrast, the core infrastructure — servers, storage systems, networking, and physical data centers — largely remained the same, limited by high costs, inflexibility, and complex operational management.

The transition from mainframes to distributed servers improved scalability; however, enterprises still faced challenges with deployment agility and operational efficiency.

As digitization accelerated, data volumes increased, and enterprises required infrastructure that could scale on demand, both horizontally and vertically. Traditional on-premises systems struggled to keep pace, as they could not handle spikes in transactions, analytics, or high-frequency workloads, and often lacked disaster recovery and high-availability features.




In this environment, virtualization became a practical solution. First pioneered in the mainframe labs of the 1960s, virtualization laid the foundation for modern cloud architecture.

Enterprise-grade virtualization on x86 servers in the early 2000s unlocked new possibilities for cloud modernization and resource optimization, paving the way for giants like AWS, Google Cloud, and Microsoft Azure.

By the early 2010s, cloud adoption began to gain traction among both startups and large enterprises.

The onset of the COVID-19 pandemic gave public clouds a sudden and unexpected boost. Businesses, forced to adopt remote work, distributed teams, and flexible IT architectures, accelerated their migration to the cloud to gain immediate scalability and meet rising demands.



# THE ROLE OF THE 7R FRAMEWORK

However, moving applications to cloud was insufficient; enterprises needed to rethink their architecture, operational workflows, and deployment practices to leverage cloud capabilities effectively. The 7Rs framework—Rehost, Replatform, Refactor, Repurchase, Retire, Retain, Relocate—became a practical method for categorizing workloads and selecting appropriate migration strategies.

Refactoring, in particular, demanded substantial redesign. Applications needed re-architecting to support cloud-native capabilities, horizontal and vertical scalability, rapid release cycles, and integration with DevSecOps practices.

Deploying microservices in containers improved resilience and availability, while replacing expensive legacy tools with cloud-native services helped lower operational costs. Even rehosting and replatforming needed integration with cloud-compatible databases, automated CI/CD pipelines, and security frameworks.

Despite the benefits, a significant obstacle to modernization has been the pressure on CAPEX. The initial capital investment required to modernize needed to be booked upfront, with the benefits often taking several years to materialize. What enterprises required was a method to overcome the CAPEX hurdle.

Meanwhile, many enterprises have also realized that without careful planning and design, cloud environments can replicate the inefficiencies of legacy data centers in a virtual form. This became another obstacle to modernization.

Today, that scenario is changing. We now have intelligent, AI-powered accelerators shifting the paradigm. With AI enhancing workload placement, guiding security and compliance, and optimizing resource allocation, enterprises can accelerate time-to-value.

Bottom line: IT modernization has become achievable and strategically attractive.

+++  
+++  
+++

# AI, the Transformative Enabler for Modernization

AI has become the transformative tool enterprises needed. It reduces manual work, accelerates delivery, and improves quality.

Tools like GitHub Copilot, AWS CodeWhisperer, Google Duet AI, and Azure AI now assist developers by automating repetitive coding tasks, suggesting improved refactoring patterns, generating containerization and orchestration templates, and creating end-to-end DevSecOps pipelines. Human oversight continues to play a vital role—especially in areas such as architecture, business logic, and security—with AI significantly reducing manual effort and shortening timelines.

AI provides insights that facilitate migration planning, identify dependencies and bottlenecks, and suggest optimal migration paths while prioritizing workloads for refactoring or replatforming. This approach reduces risk, minimizes disruption, and accelerates cost and time savings during migration.

The impact of AI-assisted modernization now stretches far beyond the realm of technology. This is because enterprises today must navigate tighter regulations, increased cyber threats, and relentless demands for innovation—and AI helps by standardizing best practices, automating repetitive tasks, and allowing engineers to focus on high-impact, strategic projects. With AI-driven automation integrated into cloud architectures, enterprises can enhance operational resilience and flexibility, while also achieving measurable savings.

This white paper describes how AI drives cloud migration and modernization, enhances the 7Rs approach, and accelerates transformation while minimizing CAPEX requirements. The white paper examines AI interventions and presents practical case studies from banking, hospitality, and manufacturing that demonstrate how AI-driven modernization can accelerate ROI.

AI-assisted modernization should be a priority for enterprises seeking to future-proof their IT infrastructure. This white paper explains how that vision can become a reality.

+++  
+++  
+++

# SECTION 1

## Why Modernization Matters

Modernizing enterprise IT is now essential for remaining competitive, agile, and efficient. While legacy systems have provided reliability, they are becoming more expensive to maintain, inflexible in design, and out of sync with current business demands.

In a recent IDC survey, 60% of cloud buyers stated that their IT and digital infrastructure requires significant transformation, while 82% indicated that it also needs modernization. This is because many enterprises still rely on monolithic applications tied to on-premises infrastructure, resulting in slower release cycles, increased risk of downtime, and limited scalability. These limitations directly impact business performance, including delayed time-to-market, decreased customer satisfaction, and reduced capacity for innovation.

Enterprises recognize that the exponential growth of data requires infrastructure that can scale dynamically and respond in real-time. For

---

### Ten Trends That Shaped the Cloud Market in 2024, IDC, February 5, 2025

modernization approach, supported by automation, governance, and skilled talent.

The 7Rs framework offers a structured approach to migration and modernization. Each strategy—Rehost, Replatform, Refactor, Repurchase, Retire, Retain, and Relocate—matches workloads with business objectives, operational limits, and technical possibilities.

Refactoring enables applications to achieve agility, microservices deployment, horizontal and vertical scaling, and integration with DevSecOps pipelines.

Replatforming modernizes runtime environments and databases, optimizing cloud-native services while maintaining core functionality.

Rehosting reduces operational complexity, integrates automated monitoring, and enables incremental improvements without disrupting business continuity.

From a business perspective, successful modernization yields measurable benefits, including faster time-to-market for new features, improved service reliability, and a better user experience.

In banking, modernized core systems enable instant payments, real-time fraud detection, and dynamic customer insights.

+++  
+++  
+++

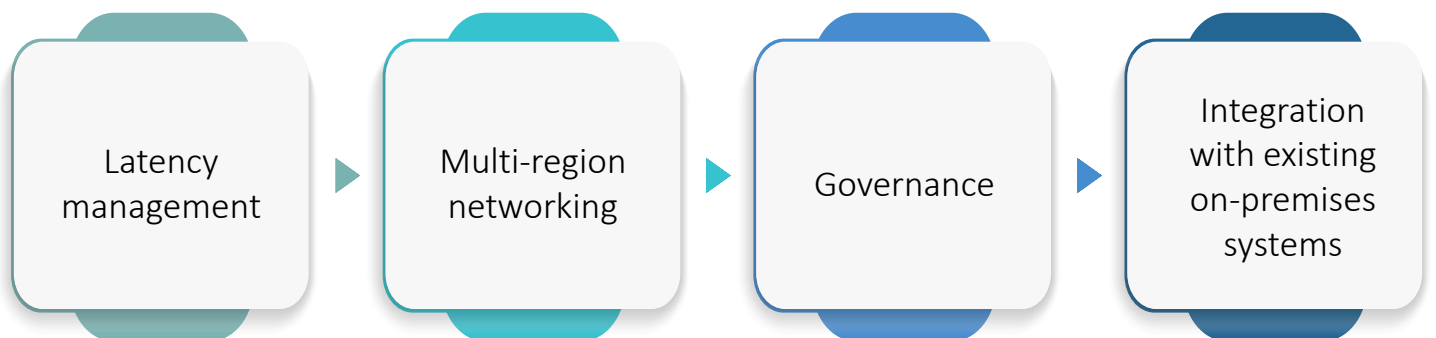
Hospitality enterprises gain seamless customer interactions and automated operational workflows.

Manufacturing benefits from real-time inventory management, predictive maintenance, and flexible production scheduling.

**The upsides of large-scale modernization have, for several years, come with their challenges, including:**



**Hybrid-cloud environments introduce additional complexity, including:**



Additionally, managing operational continuity during migration requires careful planning, prioritization, and effective risk mitigation.

This is where AI-powered tools are revolutionizing IT modernization. By automating code analysis, generating containerization templates, and providing predictive insights, AI reduces manual effort, accelerates delivery, and enhances efficiency. For instance, AI can identify refactoring opportunities, recommend database configurations, and spot security risks early. Human oversight remains essential for architecture, business logic, and compliance. However, AI serves as a force multiplier, helping enterprises modernize more quickly, with reduced risk, costs, and effort.

The dual demands of operational efficiency and strategic agility now propel enterprise IT modernization. Legacy systems have served as stable foundations, but they have increasingly constrained scalability, regulatory compliance, and innovation across industries.

In sectors ranging from banking to hospitality and manufacturing, modern, cloud-native architectures provide competitive differentiation, operational resilience, and sustained growth.

Contemporary modernization, guided by frameworks such as the 7Rs and enhanced by AI-driven automation, enables enterprises to unlock new business value and to improve customer experience. But, more importantly, AI reduces the cost of modernization and the pressure on CAPEX.

## SECTION 2

### AI in Cloud Migration and Modernization

While the 7Rs framework offers strategic guidance for cloud migrations and modernization, simplifying the process and reducing resource demands, especially during refactoring, replatforming, and rehosting, AI enhances this by accelerating delivery and improving quality across various layers of cloud transformation. AI enhances the capabilities of engineers and architects, allowing them to focus on high-impact projects rather than routine tasks.

### AI in Refactoring

Refactoring redesigns applications to be cloud-native, allowing for horizontal and vertical scaling, microservices deployment, and integration with DevSecOps pipelines. AI accelerates the process by automating repetitive tasks, while developers maintain control over architecture and design decisions.

#### Code Analysis and Transformation

AI tools like GitHub Copilot and AWS CodeWhisperer scan codebases, highlight redundant patterns, and suggest modular code for microservices. Developers review and refine these outputs.

#### Architecture Recommendations

AI advisers such as Google Cloud AI Recommendations analyze app dependencies and usage to propose microservices, containers, or serverless options. Engineers check trade-offs and feasibility.

#### Testing Automation

AI generates unit, integration, and security tests for refactored code, reducing repetitive scripting work. Developers focus on advanced testing, integration, and performance tuning.

The automation reduces manual effort, resulting in shorter timelines and lower OPEX while leaving critical decisions where they belong—with human architects.

+++  
+++  
+++

## AI in Replatforming

Replatforming modernizes runtime environments, operating systems, and databases without altering core application logic. AI improves these capabilities in several ways.

### Automated Resource Mapping

AI tools like AWS Compute Optimizer suggest the best instance types and memory configurations. Architects validate performance and cost.

### Database Modernization

AI migration tools find schema issues, create migration scripts, and flag performance risks. Human experts review changes to ensure they meet business and compliance needs.

### CI/CD Pipeline Generation

AI platforms build cloud-native CI/CD pipelines and suggest optimizations. Engineers review and approve these pipelines.

These AI capabilities reduce manual effort in environment provisioning, database migration, and pipeline configuration, providing cost and time savings while ensuring expert oversight.

## AI in Rehosting

Rehosting, or 'lift-and-shift,' can be deceptively complex in hybrid or multi-cloud environments. AI assists through:

### Dependency Mapping and Workload Analysis

AI tools like Google Cloud AI Recommendations detect service dependencies, network requirements, and usage patterns to help plan migrations and avoid disruptions. Engineers review the recommendations, assessing their applicability to specific enterprise requirements and priorities.

### Automated Configuration Generation

AI creates VM specs, container templates, and network configs for the chosen cloud. Engineers review and adjust for compliance, security, and performance.

### Security and Compliance Checks

AI monitors workloads for security and regulatory compliance, flagging issues for human intervention.

Integrating AI into rehosting enables enterprises to reduce their operational workload, allowing engineers to maintain control over key architectural, security, and compliance decisions.

+++  
+++  
+++

## AI-Powered DevSecOps and Monitoring

Beyond migration strategies, AI enhances ongoing operations:

### Predictive Performance Optimization

AI analyzes resource use and latency, recommending scaling and load balancing before issues arise. Engineers approve of changes.

### Anomaly Detection and Automated Remediation

AI tools like AWS DevOps Guru spot and respond to performance and security anomalies, triggering alerts or fixes. Human experts handle complex cases.

### Continuous Code and Security Audits

AI reviews code for vulnerabilities and improvement opportunities. Engineers validate the findings and apply critical fixes as needed.

AI-powered operations drive efficiency, resilience, and continuous improvement across the cloud environment.

## Quantifying Effort Reduction

AI does not independently rewrite enterprise applications. Instead, it enhances human expertise by:

Automating repetitive coding, refactoring suggestions, and pipeline scaffolding

Analyzing dependencies, resource utilization, and performance patterns to guide decision-making

Generating tests, monitoring recommendations, and security assessments

Providing insights for scaling, orchestration, and operational optimization

These AI capabilities reduce manual work, cut project time, lower costs, and minimize risk. By embracing AI as an enabler, enterprises can accelerate their migration and modernization while maintaining control and oversight through the guidance of human experts.

+++  
+++  
+++

## SECTION 3

### Case Studies: Banking, Hospitality, Manufacturing

With AI's role in cloud migration and modernization established, it's time to examine how these capabilities actually influence industries. Case studies show that AI streamlines complex transformations, reduces manual effort, and produces measurable operational improvements. In banking, hospitality, and manufacturing, AI supports developers and architects while keeping expert oversight at the core of every critical decision.

### Banking: Transition to Cloud-Native Architecture

Banking enterprises rely on mission-critical applications with modernization focused on core banking platforms, transaction processing systems, and analytics engines. AI accelerates these efforts across multiple dimensions:

#### Code Refactoring and Modularization

AI tools like GitHub Copilot break down monolithic banking apps, spot patterns, recommend decomposition into microservices, and suggest reusable modules. Developers validate and refine each step.

#### Database Migration and Optimization

AI migration services, such as the AWS Database Migration Service, analyze schemas, flag inefficient queries, and recommend cloud-native database solutions such as Aurora. Human architects ensure data integrity and compliance.

#### Regulatory and Security Automation

AI pre-screens code for compliance and security, flagging anomalies and offering policy suggestions. Engineers finalize controls.

#### DevSecOps and Continuous Testing

AI auto-generates test cases for microservices, including security, performance, and integration tests. Developers focus on edge cases and approvals while AI covers routine checks.

By automating routine coding, testing, and database optimization tasks, AI significantly reduces the effort and time required for migration. This enables senior engineers to concentrate on critical tasks such as architecture validation, ensuring compliance, and making informed, high-stakes decisions.

## Hospitality: Dynamic Workload Management and Customer Experience

The hospitality sector faces fluctuating demand, seasonal peaks, and high customer expectations. Modernization involves booking engines, property management systems, and customer engagement platforms. AI helps in these areas:

### Microservices Deployment

AI tools from Google Cloud or Azure suggest decomposing strategies for legacy apps, optimizing service interfaces, and deploying containers on Kubernetes. Architects validate dependencies, scaling, and failover setups.

### Resource Optimization

AI tools like AWS Compute Optimizer analyze usage patterns to recommend VM sizes, memory, and storage tiers. Engineers approve configurations to ensure cost efficiency and peak performance.

### Dynamic Pricing and Load Forecasting

AI models analyze booking patterns, competitor pricing, and market trends to predict surges and adjust pricing. Analysts apply insights to strike a balance between revenue and customer experience.

### Security and Monitoring

AI monitoring detects anomalies in user behavior, system performance, or network traffic and proposes remediation. IT teams control sensitive interventions and compliance.

Through these capabilities, AI minimizes repetitive tasks such as configuration, performance testing, and predictive analytics, enabling IT to quickly deploy new features, maintain service continuity, and optimize resources.

## Manufacturing : Process Optimization and Supply Chain Modernization

Manufacturing enterprises operate distributed, process-intensive applications, such as production line control, inventory management, and logistics systems. AI-assisted modernization makes managing these easier through:

+++  
+++  
+++

### Predictive Maintenance and IoT Integration

AI analyzes telemetry from legacy and IoT systems to flag potential failures. It recommends refactoring, aggregation, and real-time monitoring, enabling engineers to design predictive frameworks rather than manually parsing data.

### Microservices and Containerization

AI generates templates and decomposition plans for containerized apps. Kubernetes orchestration recommendations optimize deployment across environments. Engineers validate safety, latency, and regulatory compliance.

### Database and Analytics Modernization

AI reviews relational and non-relational workloads, suggesting cloud-native options like BigQuery or Aurora for performance and cost gains. Architects preserve transaction integrity, lineage, and compliance.

### Supply Chain Optimization:

AI evaluates inventory, logistics, and schedules to spot inefficiencies, forecast demand, and propose improvements. Decision-makers apply insights to guide resource use, planning, and procurement.

AI cuts manual effort in dependency mapping, configuration, testing, and analytics. Engineers and architects can focus on higher-value activities, such as compliance, process optimization, and orchestration.

## Maintaining Flow Across Industries

AI enhances rather than replaces expertise in these sectors. Automating routine coding, deployment templates, testing, and dependency mapping allows specialists to focus on architecture, business logic, and compliance. Predictive analytics and AI-powered scaffolding accelerate modernization while reducing risk, with human oversight ensuring alignment with strategy, security, and regulations, creating a balanced approach to modernization.

## SECTION 4

### Accelerators for Migration and Modernization (Developed and Planned)

Cloud migration and modernization are complex processes that involve code refactoring, environment replatforming, rehosting, and integrating DevSecOps. ITC Infotech has developed a set of AI-powered tools to accelerate these initiatives. Many of our tools are operational, while others are planned for expansion. These accelerators standardize repetitive tasks, reduce manual work, and shorten delivery timelines. Each accelerator is designed to augment human expertise.

## Ready-to-Use ITC Infotech Accelerators (30%)

Approximately 30% of ITC Infotech's AI-powered accelerators are developed, tested, and operational, supporting enterprise migrations:

- **Refactoring Accelerators** leverage GitHub Copilot, AWS CodeWhisperer, and Azure AI for DevOps to analyze monolithic codebases and generate microservices decomposition patterns, APIs, and modular templates. Engineers validate business logic, security, and compliance. Pre-built microservices templates and AI test suites for functional, integration, and security testing reduce planning and coding efforts by up to 40%.
- **Replatforming Accelerators** leverage AWS Compute Optimizer, Azure Adviser, and Google Cloud Recommender to provide pre-validated VM and storage configurations. AI-assisted database migration tools from AWS, Azure, and Google recommend schema optimization, partitioning, and cloud-native databases. GitHub Copilot for DevOps creates CI/CD scaffolds that engineers refine for logic and compliance.
- **Rehosting Accelerators** combine AWS Migration Hub with AI Insights and Google Cloud AI to map dependencies, network requirements, and storage patterns. Security accelerators work with AWS Security Hub AI, Azure Security Center with AI, and Google Cloud Security Command Center to identify vulnerabilities. Engineers complete configurations to ensure operational reliability.

These advanced accelerators are already in use across various sectors, including banking, hospitality, and manufacturing.

## Planned ITC Infotech Accelerators for Next 12–18 Months (70%)

Approximately 70% of ITC Infotech's AI-powered accelerators are scheduled for development. These will target higher automation, intelligent recommendations, and advanced integration across cloud services:

- **Advanced Refactoring and Code Optimization** accelerators will provide predictive suggestions for code transformations, including dependency analysis, microservices refactoring, and orchestration templates for Kubernetes and serverless frameworks. Engineers will validate and fine-tune critical logic.
- **Enhanced Replatforming Accelerators** will leverage AI models to propose multi-cloud blueprints, optimize workload placement, and recommend migration to services like AWS Lambda, Azure Functions Premium, and Google Cloud Run. Database accelerators will suggest partitioning, caching, and tuning strategies for high-volume workloads.

- **Automated Security and Compliance Modules** will provide threat modeling, anomaly detection, compliance validation, and remediation, integrated with AWS Security Hub, Azure Security Center, and Google Cloud Security Command Center. Engineers will review high-risk actions and retain control over critical decisions.
- **AI-Enhanced DevSecOps** will accelerate CI/CD automation with test generation, security scanning, orchestration, and rollback strategies, where AI will help optimize performance, cost, and risk. Experts will focus on high-value decisions.
- **Continuous Learning and Adaptation** will be driven by operational data and feedback loops that refine AI models to enhance code decomposition, deployment, and resource optimization, while the accelerator integrates with new services as they are released, automatically suggesting adoption paths and configurations.

## Cross-Industry Expansion of ITC Infotech Accelerators

ITC Infotech's planned AI-powered accelerators will be tailored for industry-specific workloads:

- **Banking** will benefit from predictive compliance checks, automated audit trail generation, and AI-assisted modernization of high-volume transactions.
- **Hospitality** will gain from dynamic pricing capabilities, peak load orchestration, and AI-driven customer engagement service templates.
- **Manufacturing** will advance through predictive maintenance pipelines, IoT telemetry integration, and supply chain orchestration.

## Practical Deployment Flow of ITC Infotech Accelerators

Our accelerators provide a structured and proven pathway for AI-assisted cloud modernization:

- **Refactoring** is supported by our existing Copilot and CodeWhisperer templates that handle initial code decomposition, with planned advanced models set to predict complex interdependencies and recommend container orchestration patterns.
- **Replatforming** is enabled by existing accelerators that optimize VM, storage, and database configurations, while upcoming models will deliver multi-cloud blueprints and performance tuning recommendations.
- **Rehosting** is already backed by dependency mapping and security alerts, with planned accelerators extending to predictive anomaly detection, auto-remediation suggestions, and integrated DevSecOps automation.

By combining developed accelerators (30%) with planned advanced accelerators (70%), enterprises can reduce repetitive efforts by 50–70%, speed up migration timelines, and free architects and developers for more valuable tasks.

## SECTION 5

### Business Leadership and ROI

The adoption of AI-powered accelerators in cloud migration and modernization is not just a technical upgrade—it provides measurable business benefits by enhancing efficiency, reducing costs, and enabling leadership teams to make strategic decisions with confidence.

### Operational Efficiency and Cost Reduction

The combination of developed and planned AI accelerators directly impacts cost efficiency:

- **Reduced Engineering Effort** is achieved as refactoring accelerators handle initial code decomposition, microservices scaffolding, and test generation, allowing developers to focus on critical business logic, compliance, and security validations.
- **Optimized Cloud Resource Utilization** results from replatforming and rehosting accelerators that integrate with AWS Compute Optimizer, Azure Adviser, and Google Cloud Recommender to recommend VM sizing, storage tiers, and workload placement, with AI continuously refining these recommendations to minimize over-provisioning and underutilization.
- **Shorter Migration Timelines** result from pre-built templates, AI-assisted CI/CD scaffolds, and automated dependency mapping, while accelerators compress the planning and validation stages, enabling enterprise projects to progress from assessment to production much faster.

The decrease in OPEX and project timelines directly leads to better financial metrics. Enterprises see quicker ROI on migration and modernization efforts.

+++  
+++  
+++

## Strategic Value and Decision Support

ITC Infotech's AI accelerators provide leadership teams with actionable insights for strategic decision-making:

- **Predictive Performance and Scalability** are enabled by AI models embedded in accelerators that analyze workload trends and forecast performance bottlenecks, allowing executives to make informed decisions on capacity expansion, cloud budgeting, and business growth planning.
- **Risk Management and Compliance Oversight** is strengthened through security and compliance accelerators that flag vulnerabilities, regulatory risks, and configuration issues before deployment, giving leadership clear visibility into enterprise risk posture without the need to micro-manage operational teams.
- **Scenario Planning and Optimization** is supported by AI accelerators that simulate migration pathways and resource configurations, enabling leadership to evaluate trade-offs between cost, performance, and time-to-market.

## Business Impact Across Industries

Although the accelerators are industry-agnostic at their core, their application enables sector-specific ROI:

- **Banking** benefits from automated compliance checks, audit trail generation, and predictive transaction scaling, which accelerate regulatory approvals and reduce manual review effort, while faster deployment of modernized services enables banks to respond rapidly to market demands.
- **Hospitality** improves system responsiveness through dynamic workload orchestration, AI-assisted booking engine modernization, and microservices deployment, reducing downtime during peak periods and enhancing both customer satisfaction and revenue.
- **Manufacturing** reduces operational disruptions with predictive maintenance, IoT telemetry integration, and supply chain orchestration, as AI accelerators modernize production-critical applications without downtime, improving throughput and lowering operational risk.

+++  
+++  
+++

## Scalability and Multi-Region Expansion

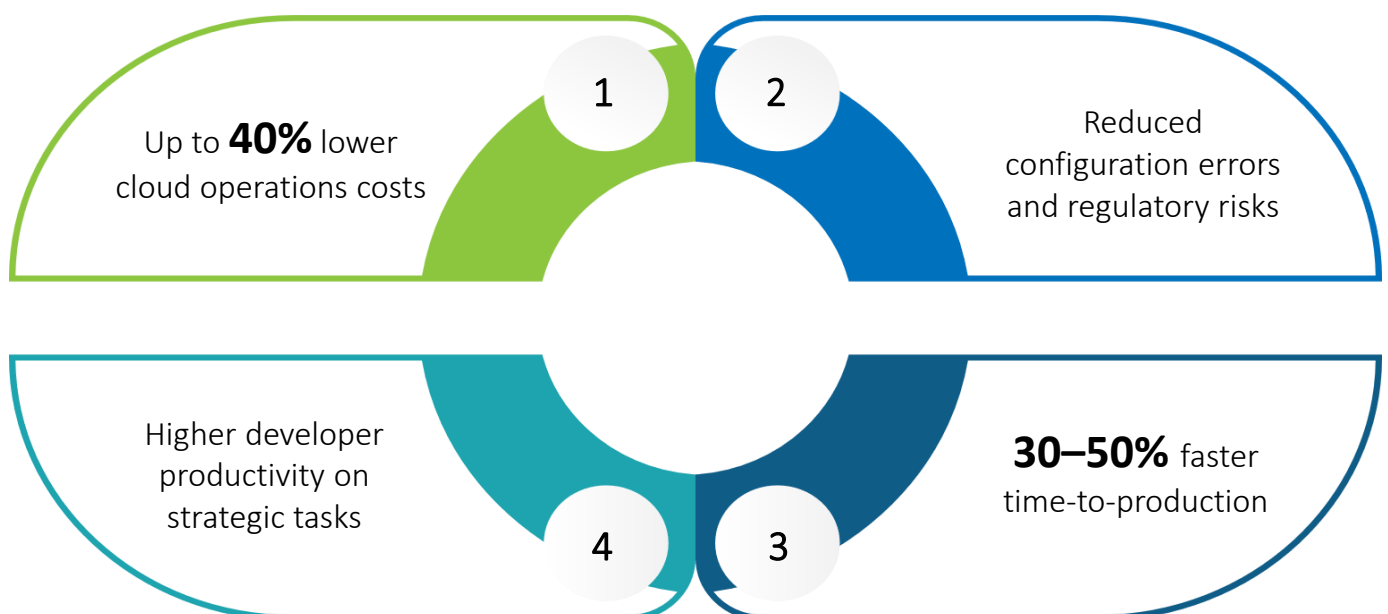
The modular design of the AI-powered accelerators lets enterprises easily expand initiatives across different regions and cloud platforms. Leadership can confidently replicate successful patterns in new areas, supported by AI-driven templates and recommendations that maintain consistency in design, deployment, and security.

These accelerators also evolve with each implementation, as feedback loops continuously refine their capabilities by learning from earlier deployments. At the same time, multi-cloud recommendations optimize cost efficiency, resilience, and compliance across AWS, Azure, and Google Cloud environments, providing enterprises with a dependable foundation for ongoing modernization.

## Measurable KPIs and ROI Tracking

Our accelerators allow leadership to measure benefits precisely. They shorten time-to-production by utilizing ready-made templates and AI-driven pipelines, which reduce deployment cycles by 30–50%. Cost savings are achieved through optimized resource allocation and automated refactoring. Early deployments report up to 40% lower cloud operations costs.

### ITC Infotech's AI-powered accelerators enable quantifiable benefits.

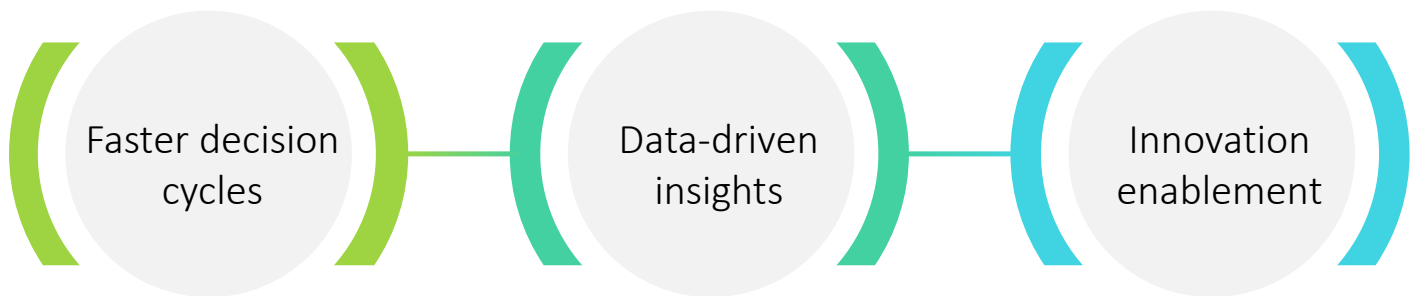


At the same time, operational risk mitigation is supported by security and compliance tools that lower configuration errors and regulatory risks, leading to smoother audits and fewer incidents after deployment. Employee productivity also increases as developers and architects focus on high-value activities, resulting in enhanced strategic output while reducing repetitive, low-impact tasks.

## Leadership Enablement and Strategic Planning

Beyond operational metrics, accelerators give leadership teams confidence and agility by streamlining decision-making and implementation. With AI recommending workload placement, resource optimization, and refactoring pathways, executives can approve changes more quickly, enabling enterprises to keep pace with evolving business demands.

### ITC Infotech's AI-powered accelerators enable strategic velocity.



At the same time, ongoing monitoring and AI feedback loops generate data-driven insights that support evidence-based decisions on expansion, multi-cloud adoption, and investment priorities. This reduction in operational burden enables IT teams to focus on innovation projects by adding AI-driven features to applications, testing serverless architectures, or rethinking business processes to improve efficiency.

## Future Outlook

With 70% of accelerators planned for development over the next 12–18 months, enterprises can expect steady improvements in ROI and strategic agility. Enhanced predictive capabilities will streamline scaling and resource allocation, while expanded DevSecOps automation will reduce manual validation and deployment time.

Our accelerators also promote wider adoption of AI-guided compliance, security, and performance monitoring, which strengthens risk management. Lastly, cross-industry use of pre-configured microservices and workload patterns enables leadership to scale transformation initiatives confidently and predictably.

+++  
+++  
+++

## Moving ahead with ITC Infotech's AI-powered accelerators

Faster decision cycles

Data-driven insights

Innovation enablement

Our accelerators also promote wider adoption of AI-guided compliance, security, and performance monitoring, which strengthens risk management. Lastly, cross-industry use of pre-configured microservices and workload patterns enables leadership to scale transformation initiatives confidently and predictably.

### Conclusion

ITC Infotech's AI-powered accelerators, both developed and planned, provide powerful tools for enterprise transformation. When deployed by design and execution experts within migration and modernization programs, they are more than just tactical tools; they help contain CAPEX and OPEX requirements, boost operational efficiencies, and enhance strategic agility. By eliminating repetitive tasks, optimizing resource use, and strengthening security and compliance oversight, these intelligent systems enable leadership to act more quickly and confidently.

When integrated into migration and modernization workflows, these AI accelerators transform complexity into an advantage. They shorten deployment timelines, support more precise, data-driven decision-making, and free up capacity for technical teams to focus on innovation and high-value initiatives. The result is immediate ROI and a stronger foundation for long-term, sustainable growth.

### Author Details



#### ABHRADIP

Cloud Professional Services at ITC Infotech

Abhradip has over 20 years of global IT services experience and currently heads Cloud Professional Services at ITC Infotech as part of the Cloud First Service Line. His work spans cloud migration, platform engineering, and AI-enabled delivery optimization. Prior to this, he led Cloud Advisory, Migration, and Platform Engineering for a cloud services organization, guiding a team of nearly 100 experts. He has developed cloud adoption frameworks and accelerators widely used by SMBs and enterprises. His areas of focus include cloud strategy, DevSecOps adoption, and modernization at scale.

### About ITC Infotech

ITC Infotech is a leading global technology services and solutions provider, led by Business and Technology Consulting. ITC Infotech provides business-friendly solutions to help clients succeed and be future-ready, by seamlessly bringing together digital expertise, strong industry specific alliances and the unique ability to leverage deep domain expertise from ITC Group businesses. The company provides technology solutions and services to enterprises across industries such as Banking & Financial Services, Healthcare, Manufacturing, Consumer Goods, Travel and Hospitality, through a combination of traditional and newer business models, as a long-term sustainable partner.

ITC Infotech is a wholly owned subsidiary of ITC Ltd. ITC is one of India's leading private sector companies and a diversified conglomerate with businesses spanning Consumer Goods, Hotels, Paperboards and Packaging, Agri Business and Information Technology.

For more information, please visit: <http://www.itcinfotech.com/>

Follow us on

