RE-ENGINEER LEGACY SYSTEMS TO TAKE FULL ADVANTAGE OF NEXT-GEN TECHNOLOGIES

Enterprises today want to adopt next-generation architecture such as cloud, mobility and DevOps to:

- Increase revenue through analytics-driven insights on campaign results
- Reduce time-to-market by simplifying process complexity
- Increase business agility through new business models

However, to do this, they must first migrate existing technologies and functionalities – and this is where legacy systems can play the spoiler. So, how do enterprises modernize legacy applications and become digital without incurring further risk and cost?

Maximize value through Re-engineering with Infosys

Infosys helps companies become digital enterprises by re-engineering business processes through an iterative modernization model that achieves continuous improvement and eliminates risk of failure.

We leverage in-house tools, accelerators and platforms that reduce manual effort and cut cost and time by 25-30%. Tools such as the Infosys Test Automation Accelerator automate and accelerate regression and end-to-end testing. The Infosys Data Service Suite (iDSS) bundles data-related services into a single tool, thereby simplifying data migration. The Infosys Knowledge Curation Platform (Ki) combines processes, static technology views and dynamic data points from systems, giving you a single source of truth. It also helps in identifying and providing quick wins so you can realize business benefits instantly.

Infosys approach

As part of the re-engineering solution, we help you:

- Leverage open source to reduce cost and increase agility in data management, analytics, UI/UX, and app development
- Adopt mobility for consumer facing applications to curate an omni-channel, consistent and personalized customer experience
- Implement DevOps to automate the software delivery lifecycle
- Use real-time analytics for preventive, predictive and personalized insights
- Access cloud-native applications that are elastic and infrastructure-independent
- Customize APIs and microservices

All of this is done in a phased and iterative manner as shown below

<table>
<thead>
<tr>
<th>Components</th>
<th>Description</th>
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<tbody>
<tr>
<td>Digital Modernization - Iterative</td>
<td>Breaks portfolios and monolithic apps based on various parameters, uses an iterative approach to meet target state and executes validation at each iteration stage</td>
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<tr>
<td>Inventory Analysis</td>
<td>Uses a top-down approach by assessing your portfolio to identify the right applications for re-engineering based on surveys/meetings with SMEs; Uses a bottom-up approach to discover hidden information and external dependencies in your inventory using in-house tools and create the modernization roadmap</td>
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<tr>
<td>Business Rules Extraction</td>
<td>Parses code into small snippets, identifies duplicate rules, classifies rules, and generates reports based on lines of business, which are then validated with SMEs</td>
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<td>Application Migration</td>
<td>Reverse engineers the target application by extracting rules and uses forward engineering to accelerate the target application with next-gen architecture using a tool-based approach</td>
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<td>Database Migration</td>
<td>Enables data extraction from the source, formats data as required, loads data into the target environment, and verifies referential integrity</td>
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<tr>
<td>Post Migration</td>
<td>Provides post migration support, user training and knowledge transfer while measuring the benefits realized</td>
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Why choose Infosys?

- Over 10 years of re-engineering experience in multiple projects across various domains
- Resource pool of over 28,000 mainframes and 4000 AS400 architects who have successfully delivered re-engineering solutions
- Well-defined best-practices, governance structure and program execution models for re-engineering

Success stories

Singapore bank enhances customer experience: Infosys helped a Singapore-based multinational bank re-engineer COBOL to JAVA and migrate to a cloud-based platform, thereby enabling next-gen and microservices architecture that enhanced customer experience and provided support for mobility solutions.

Insurer increases productivity by 20%: By transforming the legacy system with a web-based solution and service-oriented architecture (SOA), Infosys enabled a US-based insurance company to deploy user-friendly features and interfaces that improved employee productivity by 20% and reduced TCO by 25%.

Scalable platform helps aerospace company meet future growth: Infosys re-engineered the legacy applications of a leading aerospace company to a web-based platform, thereby improving the customer experience and providing a highly scalable platform that supports their growing business needs.

For more information, contact askus@infosys.com