
Drive innovation and growth in financial services with continuous modernization



Trusted partner for your Digital Journey

Atos

Large financial institutions typically have operations relying on aging applications written decades ago on old platforms and patched with vital functionality over multiple years to support evolving business needs. The result? A complicated and inflexible application landscape that's expensive to maintain and hinders business innovation.

Rewriting legacy applications for a modern platform, however, can often create unacceptable risk profiles and may not include the re-thinking of business operations and customer-facing applications necessary to obtain the best business value. Plus, a rewrite is often counted as a capital expense and may require a special capital budget allocation.

Such projects consume resources in the short term while the benefits are realized only in the long term. Simply moving legacy applications to the cloud results in transferring the same operational problems of the source system to a modern platform. Hence the question "Has any business value been created by modernizing?" lingers on. Any large-scale modernization

can attract high business risk through loss of functionality, escalating costs, impact on existing projects, etc.

With all these factors in play, an alternative to a big bang approach to modernization should be considered. The use of a continuous modernization approach helps introduce features that are deployed incrementally over time to reduce business risk and achieve early benefits. Also, it can be designed to fit within IT budgeting cycles as an operating expense rather than a capital expense.

Atos' continuous modernization approach ensures **seamless and risk-free modernization** irrespective of the scale and complexity involved. It is based on a

"Modernize while Manage (M&M)" theme, wherein continuous modernization is achieved while managing the application portfolios to create the required momentum that ensures success. Operations are optimized by applying various process and modernization levers like maintenance automation, DevOps, version upgrades, and performance optimization using our proven innovative tested processes and automated, patented tools.

Incremental modernization benefits are delivered by the application development and maintenance delivery teams in an agile manner ("one small success at a time") to achieve desired business goals.

The M&M approach aids in fulfilling modernization objectives:

- Unfolds alongside business as usual operations
- Helps in maturing processes and delivery models
- Reduces total cost of operations
- Improves change management (skills, culture)
- Includes adoption of Agile processes and DevOps
- Enhances quality
- Frees up additional funds for other modernization initiatives

Atos' digital transformation and digital re-architecture offerings complement the M&M approach for large scale modernization initiatives.

Atos' business-aligned modernization solutions



Digital Transformation

- Re-imagined portfolio: Front-office to back-office
- Retire Business Process Debt
- Business rules extraction, Business process mining
- Infuse New Business Capabilities
- Multi-Modal execution options - Greenfield, Brownfield, COTS
- Highly re-usable business services with AI/ML adaption
- Robust, SMAC enabled Future ready business systems



Digital Re -Architecture

- **Decompose** Legacy and **Recompose** to target State: Inside Out technology driven transformation
- Selective Business Rule Extraction, Reverse Engineering
- Micro-services & Cloud native architecture & Implementation
- Accelerated re-architecture using Exit Legacy
- Business Aligned, Adaptive Target State
- Modern User Interface Design Studio
- Portfolio Consolidation & Retire
- Hybrid, public & private cloud implementation

For large-scale, multi-year modernization programs, a phased approach described here ensures incrementally-achieved modernization objectives. This approach incorporates the following characteristics:

Phase 1

Will focus on improvements and efficiencies such as elimination of technical debt, TCO reduction, application remediation, DevOps automation, software version upgrades and the re-platforming of out-of-support applications. The objective is to reduce redundancies from existing systems and make additional funds available for modernization. Additional funding can also be made available by re-hosting non-mission-critical mainframe applications to the **Atos Liber** platform and existing mainframe infrastructure to **Atos Mainframe Hub** in a Mainframe as a Service (MaaS) model.

Phase 2

Caters to relatively larger modernization items that can be delivered without impacting business users and continuity. This phase includes the following key activities:

- Simplification and standardization of the technology stack to minimize IT expenditure and create scalable, resilient applications
- Creation of enterprise micro-services and common APIs
- Application rationalization
- User interface modernization
- Cloudification (private and public cloud hosting)

Phase 3

Is a strategic rollout most suitable for a large modernization initiative that requires business involvement at a management level. It involves transformation initiatives such as mainframe exit (greenfield* / brownfield**) or COTS adoption. These are generally multi-year modernization initiatives that require larger funding.

All three phases are powered by automation that can provide a low cost and speedy transformation. The entire implementation is risk-free with no impact on your business-as-usual (BAU) operations ensuring consistent end-user experience and improved satisfaction. Atos' execution approach may be customized after an initial assessment of the application portfolio.

*greenfield - development lacks any constraints imposed by prior work

**brownfield - requires the development and deployment of new software systems within the immediate presence of existing (legacy) software applications/services.

Summary:

Financial institutions that know what has to be done to transform digitally would also realize that the solution is to iteratively remove impediments, envision the future state of the business and work backward to derive the transition of the business from its current "as-is" state to the future "to-be" state. In parallel, make sure to plan a coordinated transition from the current "as-is" IT system to the future "to-be" IT system—aligned with the business transformation.

The transition has interim states in a complex environment, each of which may have some impediment. The process of assessing the desired business state, identifying and prioritizing technology (among other) impediments, and removing them is iterative and continuous.

Atos' continuous modernization approach helps identify, prioritize and remove impediments to digital business in an agile, iterative manner.

About Atos

Atos is a global leader in digital transformation with 110,000 employees in 73 countries and annual revenue of over € 11 billion.

European number one in Cloud, Cybersecurity and High-Performance Computing, the Group provides end-to-end Orchestrated Hybrid Cloud, Big Data, Business Applications and Digital Workplace solutions. The group is the Worldwide Information Technology Partner for the Olympic & Paralympic Games and operates under the brands Atos, Atos | Syntel, and Unify. Atos is a SE (Societas Europaea), listed on the CAC40 Paris stock index.

The purpose of Atos is to help design the future of the information technology space. Its expertise and services support the development of knowledge, education as well as multicultural and pluralistic approaches to research that contribute to scientific and technological excellence. Across the world, the group enables its customers, employees and collaborators, and members of societies at large to live, work and develop sustainably and confidently in the information technology space.

Find out more about us

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Let's start a discussion together



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