zensar

Zensar Pioneers
**Mainframe Modernization**
for a Leading Financial Services Firm

Case study

# Customer Background

The client is a financial services organization ranked among the Banking 500 companies. It boasts of a large workforce with more than 30,000 employees, with business expanding across the globe. The client is driven towards becoming a technology-centric organization to create value and extend delightful experiences to its customers and employees. The client's mainframe footprint is comprised of around 24000 MIPS with IBM Z14 as the host.

# Highlights

- Microservices Architecture with Cobol converted to DLLs
- Data Analytics and AI/ML
- Containerized and Hyperscaler-agnostic deployment
- Full-stack monitoring giving real-time visibility into Business services and transactions
- Continuous Everything (CI/CD/CT)

# Challenges

- The client struggled with an efficient release management system. It was observed that the product release cycles were not in sync with other enterprise application releases as the core business functions are on ZOS
- The aging skill pool and the lack of mainframe talent could lead to operational perils in the near future
- Tightly integrated architecture caused a hindrance in decomposing to a microservices ecosystem
- The extensive lead time for a new product launch which led to longer go-to market timelines, pushed the client behind the competition and unable to cater to its customers (modern bank users) present needs
- High operational expenses of running the applications on the mainframe were eating into the client's profit incurred from its new products

# Solution

Zensar, with its team of experts and large experience pool, stepped in as a transformation partner to not only enable mainframe migration but also redefine its operations strategy.

**Advisory and Consulting Services:**
We built a business case including a comprehensive cost-benefit analysis using the details of the application-to-be-migrated extracted by ZosRevelate.

The case in point brought forth insightful findings such as: Multifold savings in terms of cost, effort, and time for application modernization; Outlined a 'save and re-invest' model for digital transformation; Enabled significant reduction in CAPEx through MIPS optimization

**Transformation Services:**

The COBOL code was compiled into .NET Core DLLs and the legacy source code was maintained as before, using the Raincode compilers. We integrated the migrated mainframe data stores to the customer's warehousing solution. We orchestrated proactive threat hunting exercises instead of threat detection based on a zero-trust posture to ensure the environment's utmost security. Implemented DevSecOps services on cloud for faster deployments and reduce go-to-market lead time.
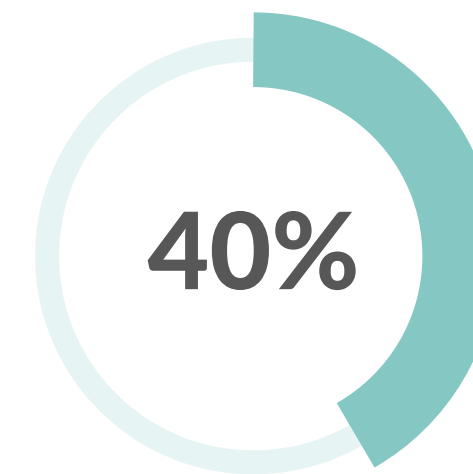
**Digital Operations:**

Zensar transformed client operations to AI driven digital operations and extended support for the new environment. We created operational manuals and shared the gathered system knowledge and test documentation to the BA and Test teams while providing continued support.
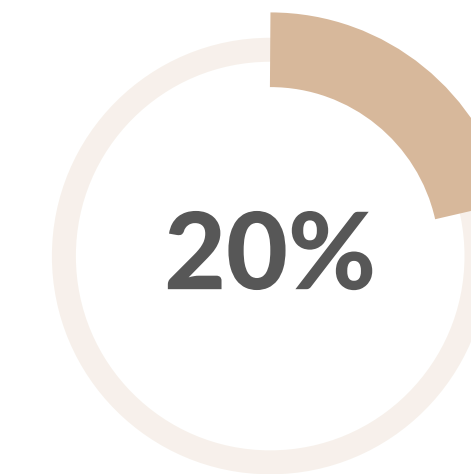
**Zensar's propriety accelerators ensured the efficiency, quick turnaround, high quality, and minimal errors in executing the solution:**

- Zensar's IP **ZAnalyzer** identified any performance bottlenecks during migration and allocated preemptive resources for mitigation
- **ZCodeUnloader** was executed to unload the data from the mainframe and loaded into the Cloud repository; **ZCodeBuild** compiled the target source using the partner compilers or appropriate language compilers and executed the automated test cases
- **UAT testing** was conducted to obtain the required signoffs for production movement, followed by **Cut-Over Testing** to move the data into production. Once the code was moved and commissioned in the production, the application on the mainframe was de-commissioned in a phased manner
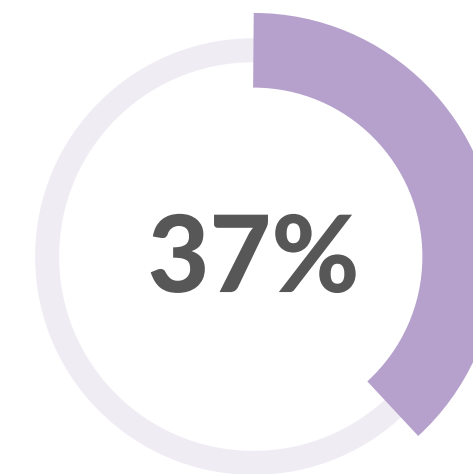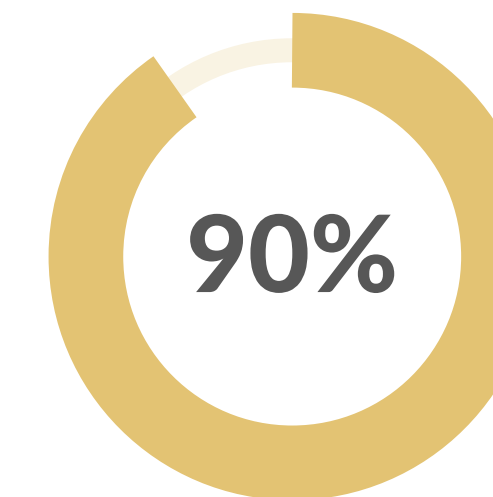
# 👍 Benefits

**40%** Cost reduction in CAPEX

**20%** Improved Apdex for periodic runs

**37%** Reduction in the cost of IT operations

**90%** Reduction in Datacenter operations and associated costs

# zensar

An ◈RPG Company

We conceptualize, build, and manage digital products through experience design, data engineering, and advanced analytics for over 200 leading companies. Our solutions leverage industry-leading platforms, and help clients be competitive, agile, and disruptive as they navigate transformational changes with velocity.

With headquarters in Pune, India, our 10,000+ associates work across 33 locations, including San Jose, Seattle, Princeton, Cape Town, London, Singapore, and Mexico City.

For more information please contact: **marketing@zensar.com | www.zensar.com**