

Accelerated Legacy

Modernization Streeted

by a Trusted Partnership

Case study



Customer Background

The client is a major financial institution that offers banking and financial services to individuals, businesses, institutions, and corporations. The client is focused on extending seamless experiences for its customers, recognizing the gains of digital options, and leading them towards new banking ways. Client technology landscape comprised of Z15 IBM Mainframe with 86000 MIPS across its business portfolio.



Challenges

- The inflexible infrastructure led to the day-to-day data center operations becoming an overhead
- The client had a hybrid environment comprising of in-house built and COTS based applications in the mainframe estate over a span of four decades. These legacy applications did not contain the operational prerequisites to be digital ready
- Data extraction and analytics posed a major challenge for the client, with the core data residing on the mainframe
- Lack of fast release cycles led to an increased lead time for launching a new product into the market, which proved to be a competitive disadvantage for the client



Highlights

- Microservices eligible Architecture
- COBOL as the programming language and cloud-native JAVA
- Ease of Data Access for Analytics and AI/ML algorithms
- Integration of Batch processes with Serverless functions and workflows to take advantage of event-driven architectures
- Containerized, scalable deployments which are hyperscaler- agnostic



Solution

Zensar played the role of a trusted partner and suggested a fullproof operations transformation strategy specific to its business needs.

Zensar entered as a transformation partner and devised an operations strategy aligned to the customer's business goals -

Advisory and Consulting services:

To understand the client's environment, we carried out an eight-week assessment workshop leveraging ZosRevelate. We analyzed and built a comprehensive clarification (360-line-items) of the client's environment aimed to gather information across ten tracks, viz. Cloud, Application, DevSecOps,

Networking, Security, Testing, Integrations, Data migration track, etc. The data collected included information like – names of the programming languages used, code lines of the applications categorized by languages, number of online transactions, end-user volume, JCL utilities, details of existing CI/CD, details about existing cloud landing zone, the existence of test cases etc. Post these workshops and careful deliberation, the right modernization strategy was suggested to the customer.

Transformation Services:

The code was refactored into JAVA runtime and maintained the legacy source code since it used Heirloom compilers. 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 reduced go-to-market lead time.

Digital Operations

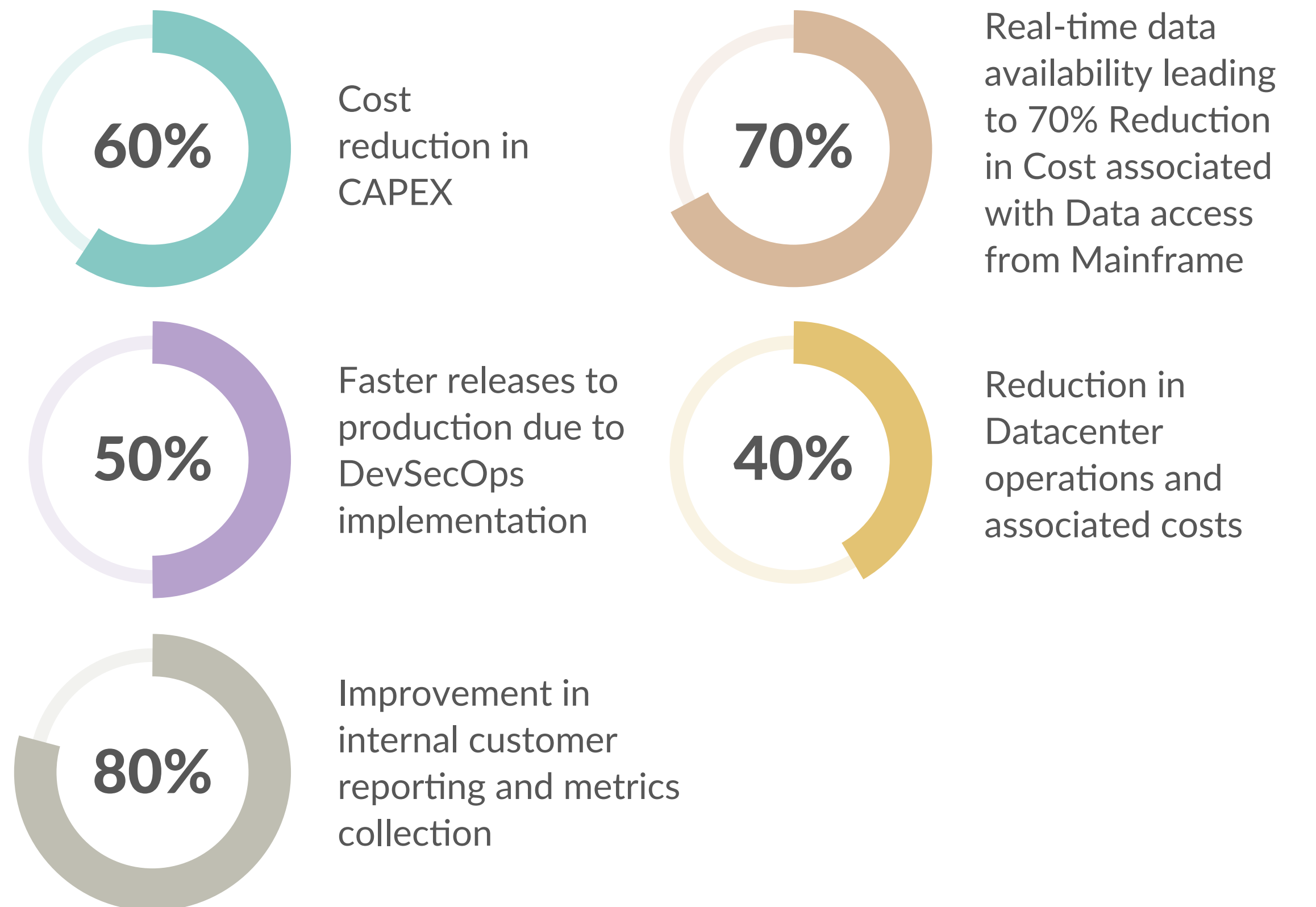
Zensar transformed client operations to AI-driven digital operations and extended support for the new environment. We created operational manuals and shared gathered system knowledge and test documentation to the BA and Test teams while providing continued support.

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 decommissioned in a phased manner.

Benefits



zensar

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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.

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