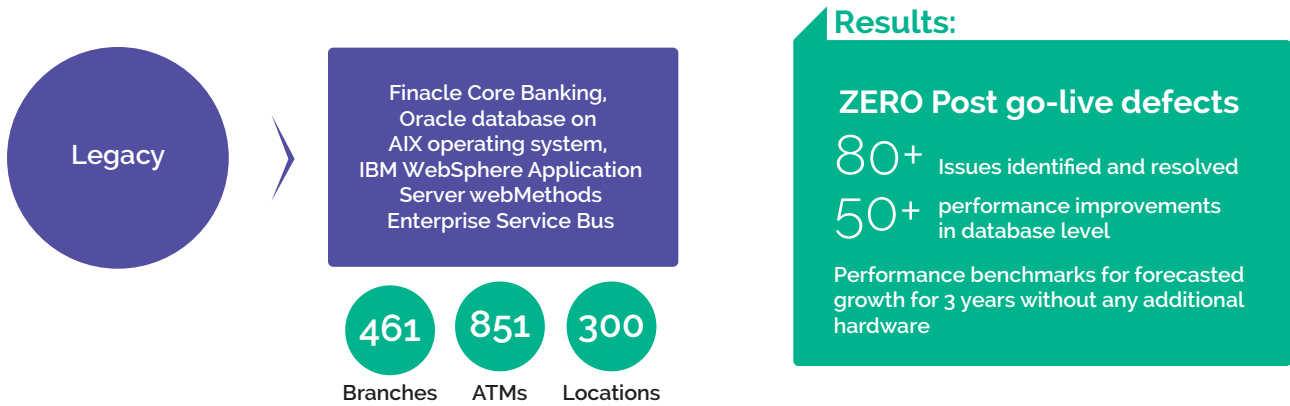# P-A-S-S™ Engineering – Successful migration with single-day cutover across 461 branches and 851 ATMS

Challenge : Migration from Legacy to next-gen Finacle stack across all bank branches and ATMs with **One day cut-over** and **zero post go-live defects**.

Legacy → Finacle Core Banking, Oracle database on AIX operating system, IBM WebSphere Application Server webMethods Enterprise Service Bus

461 Branches **851** ATMs **300** Locations

Results:

ZERO Post go-live defects

80+ Issues identified and resolved

50+ performance improvements in database level

Performance benchmarks for forecasted growth for 3 years without any additional hardware

The big-bang migration approach meant that any missteps, even minor ones, could result in huge ripples in such a critical transition. The disruptions could impact business and brand image, as a consequence result in significant financial losses for the institution.

Avekshaa's Solution :

Avekshaa had to navigate multiple challenges and layers of complexity. Both the legacy system and the new technology stack involved multiple vendors and inevitable technical silos. The team had to understand the stringent SLAs (Service Level Agreements) the bank had to maintain to avoid attracting penalties and loss of customer satisfaction, and render these into technical parameters that could be analysed and tested. Avekshaa deployed its P-A-S-S™ Assurance methodology to scope out and analyse the risks and vulnerabilities in performance, high availability and scalability. Comprehensive reviews of software interfaces, code and customisation were conducted at various levels of the technology stack.

The database, a common performance bottleneck, was scrutinized at both the architectural query levels and more than 50 performance improvements were identified and implemented. The other common choke point in high transaction systems, is the communication between the web server (IBM) and the application server (Finacle). This was reviewed for thread and memory management issues and tuned for high volume transactions. Load simulations and testing identified performance issues across the stack. Vulnerabilities and bottlenecks were identified at all critical layers of the stack (network, database, storage), and resolutions or effective workarounds were put into place to fortify the systems.

Results :

No performance or availability issues were reported by any of the branches or channels and it was business as usual. The migration had been executed smoothly with zero post go-live defects and the system was firing on all cylinders, as predicted by the Avekshaa team who was monitoring the system closely in production. They worked with multiple internal teams across multiple products seamlessly to help make this transition a smooth and silent success

Testimonial :

❝ Thanks. it was quite a smooth switch over and no issue on performance. Your guys did an excellent job" - CTO

avekshaa