

IT transformation roadmap for a leading stock exchange

Case study on enterprise architecture consulting



Background

Client was one of the leading stock exchange in India and wanted to assess their current architecture landscape and maturity, define the target architecture blueprint, recommend the IT transformation roadmap to realise the future state vision and setup the enterprise architecture office to monitor the programme and drive innovation



Pain points

Technology plays a very significant role to deliver robust, high performing exchange's capabilities to the wider investment community. The current fragmented IT architecture and technology stack was nearly a decade old and needed re-assessment to align with new cutting edge and emerging technology landscape.

The key issues faced -

- Siloed and fragmented IT landscape limits maintainable and extensible capabilities
- Limited seamless real-time information sharing and availability
- Lack of single version of truth for master data
- Limited operational flexibility and process efficiency to introduce new products
- Exponential growth of data volumes per trading session limits high performance trading execution

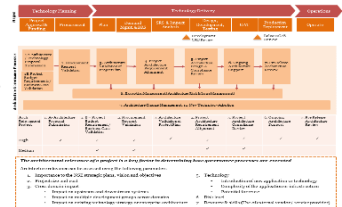
Our solution

Phase 1: Define architecture vision, blueprint and roadmap

- Define enterprise architecture vision
- Define target architecture blueprint and implementation roadmap

Phase 2: Operationalise enterprise architecture office and governance processes

- Define architecture governance structure, setup of the architecture review board structure, define the roles and responsibilities of each board members
- Define architecture governance processes, identifying touch points within client's current SDLC and budgeting and procurement processes
- Finalise architecture repository, governance artefacts, templates, questionnaires, RACI matrix
- Conduct Enterprise architecture awareness sessions with client stakeholders



Architecture governance process model

Client benefits

Improved agility and responsiveness to business needs

Reduced IT complexity and improved cost effectiveness with consolidation and simplification of IT landscape

Reduced data duplication, improved data quality for faster decision making

Streamlined operational processes through process automation and effective data sharing

Better investment decisions through architectural governance

Fulfilling the PwC Purpose of building trust in society and solving complex problems

This engagement enabled client to manage its technology complexity, improve agility and responsiveness to customer needs, and enabled a disciplined technical implementation with reduced delivery time and costs.

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