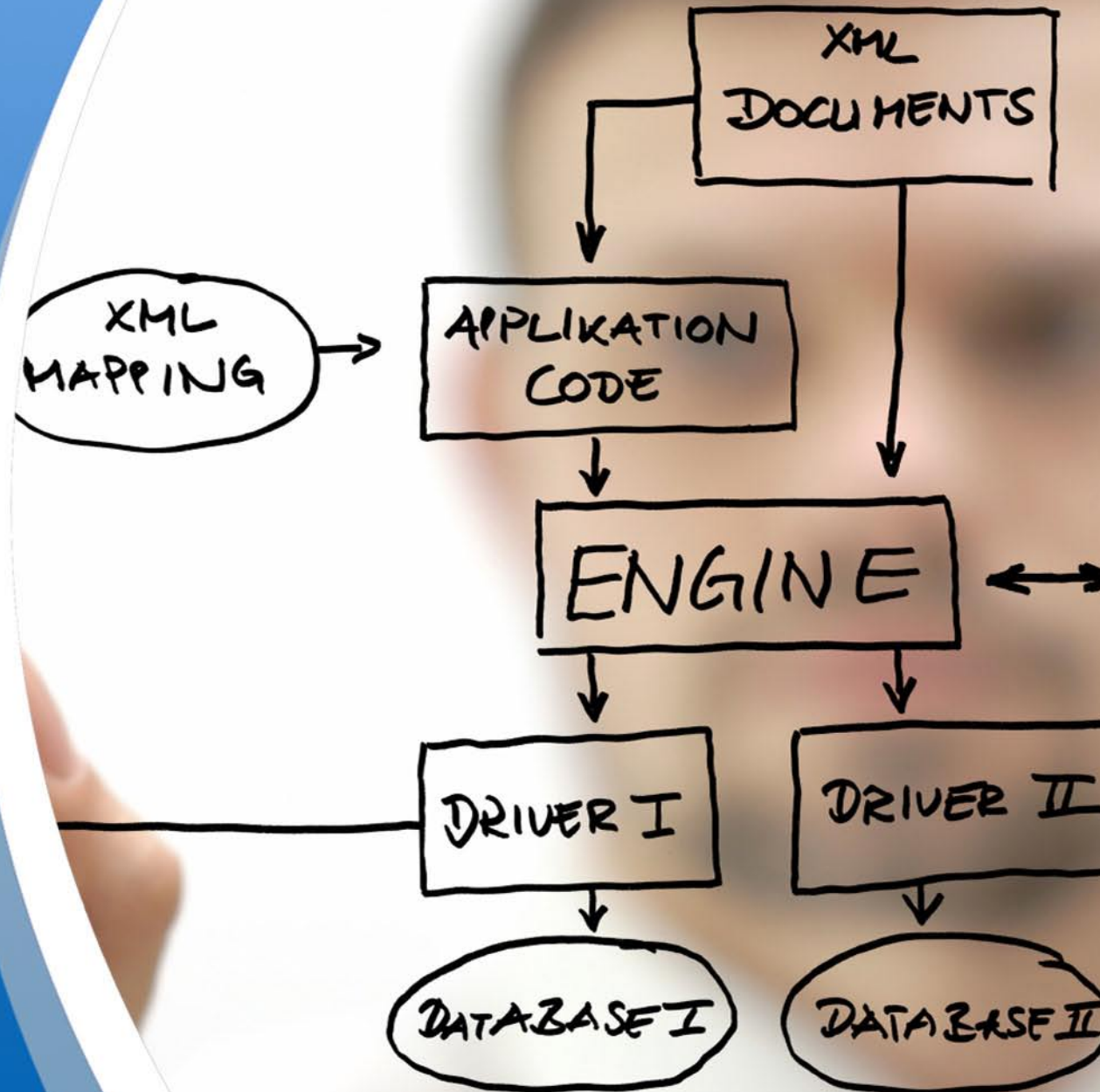


# Case Study

Offshore Development  
Migration from  
PowerBuilder to JAVA  
Struts



# Offshore Development Migration from PowerBuilder to JAVA Struts



## Summary of project

- The legacy application is an in-house development, widely used across the organization
- 'AS IS' migration of the application business functionalities
- Technical redesign of the application: shift from client/server to thin client based n-tier architecture
- GUI migration from PowerBuilder to Java, J2EE, Struts framework

## Scope of Work

- Requirement analysis of the existing PowerBuilder application and documenting the use cases.
- R & D related to understanding of Customer's Struts-derived development framework
- High level and Low level design
- Coding, Unit testing, System Testing, Performance Testing, UAT defect fixing
- User documentation, Post go-live support
- End-to-end project management

## Organizational model

- The project execution follows an onsite-offshore model where in the design, development and Pre-IST system testing are carried out offshore
- One onsite technical coordinator and architect
- Agile/RUP development methodology is adopted to reduce the development cycle and allow intermediate validation
- Deliveries are divided into sets of Use cases

- **415K€ / 2 165 mandays**
- **Commitment on fixed price – No change**
- **Agile-based delivery model**
- **Stringent quality management – No rework**

## Challenges

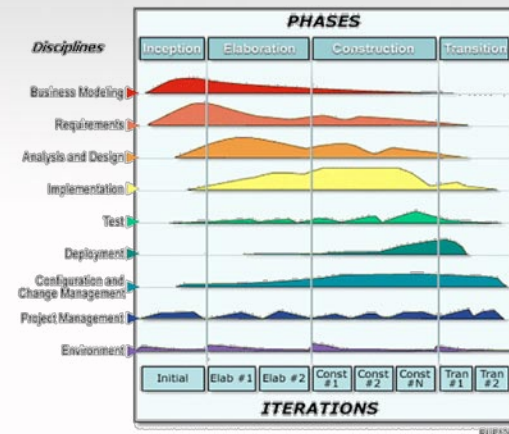
- Readiness and availability of the framework during the development phase
- Version control and synchronization of the framework with the application being developed offshore
- Delays due to unavailability of the business users to provide clarity on the business process re-engineering requirements
- Dependency on the customer team to configure /assemble /build /deploy the application

## Project Keys

### Facts

140 screens 75 reports	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5 Change Requests
Mandays offshore	200	670	415	600	280
Nb of Use Cases	18	21	43	21	-
Nb of Change Requests	7	13	7	45	-
Nb of Test Cases	200	210	430	780	-
Nb of Iterations	11	8	7	41	-
Iteration feedbacks	All iterations accepted / All criteria passed / No rework				

### Iterative development approach with early risk mitigation



### Why it works

- Onsite coordinator for good communication
- Detailed technical reviews, "How-to" with onsite architect
- Preparation, anticipation of changes
- Fixed price mode keeps everyone on tracks

