



IBM Software Group

IBM Application Lifecycle Solutions

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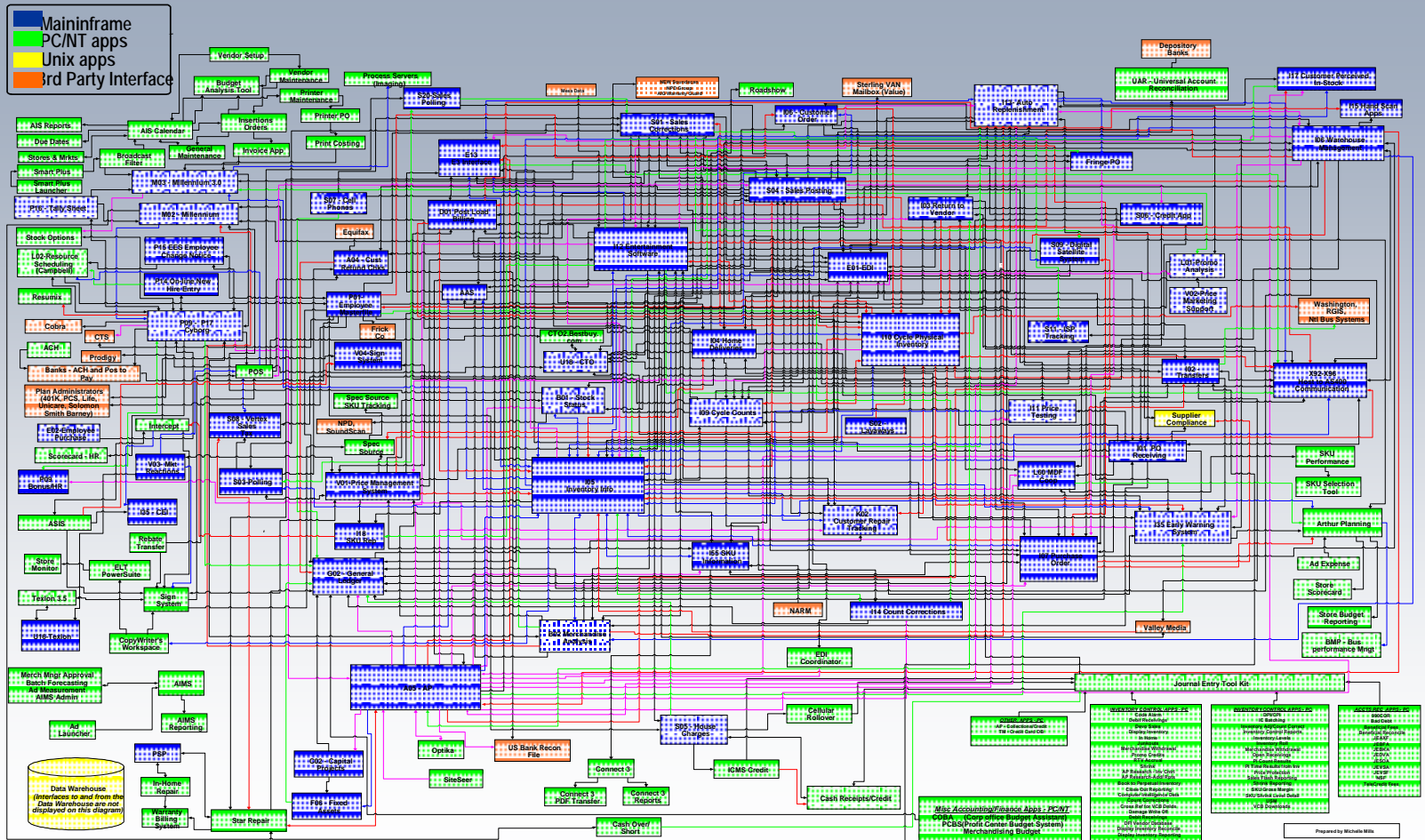
ON DEMAND BUSINESS™

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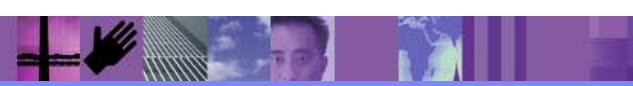
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Quality Challenges

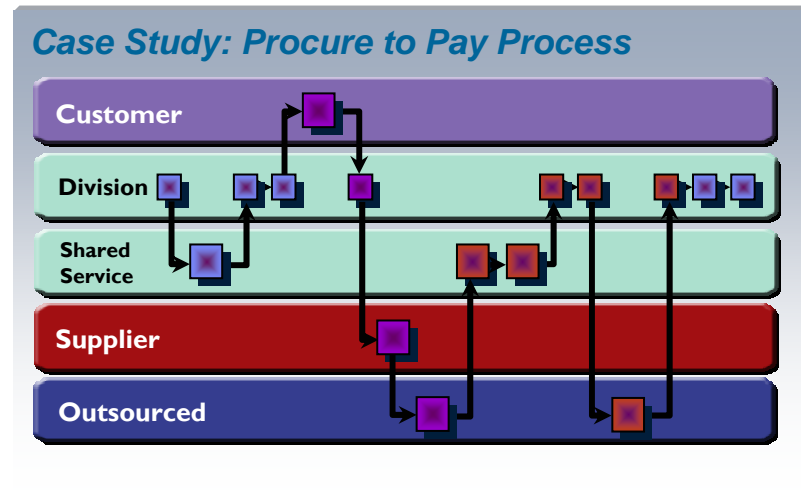


Actual Application Architecture for Consumer Electronics Company

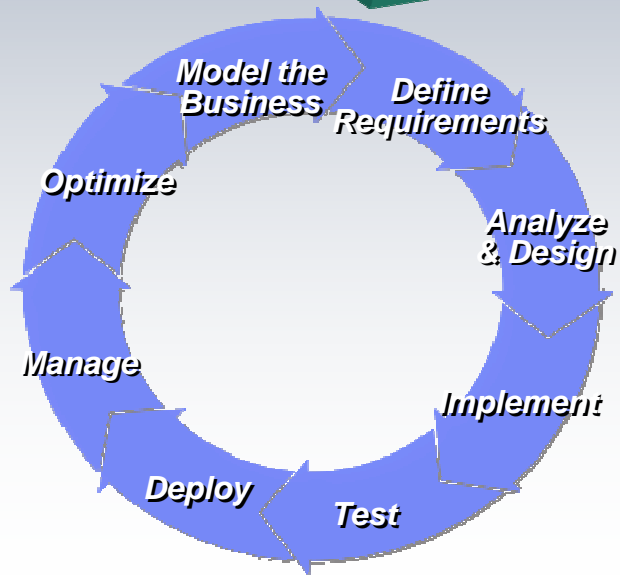
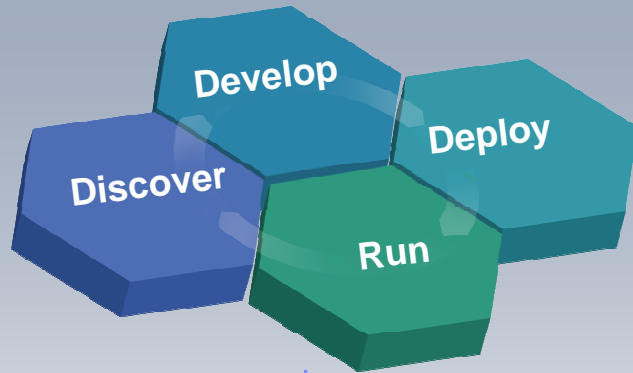


But ... Tools & Technology Applied Correctly *Can Pave the Way for Successful Business Innovation*

- Standards (including open source) for interoperability
- Self-defined, loosely coupled interfaces
- Tools to visualize and integrate existing assets
- Model Driven Architecture (MDA)
- **Architecture is the key to successful business innovation**



Enterprise Platform

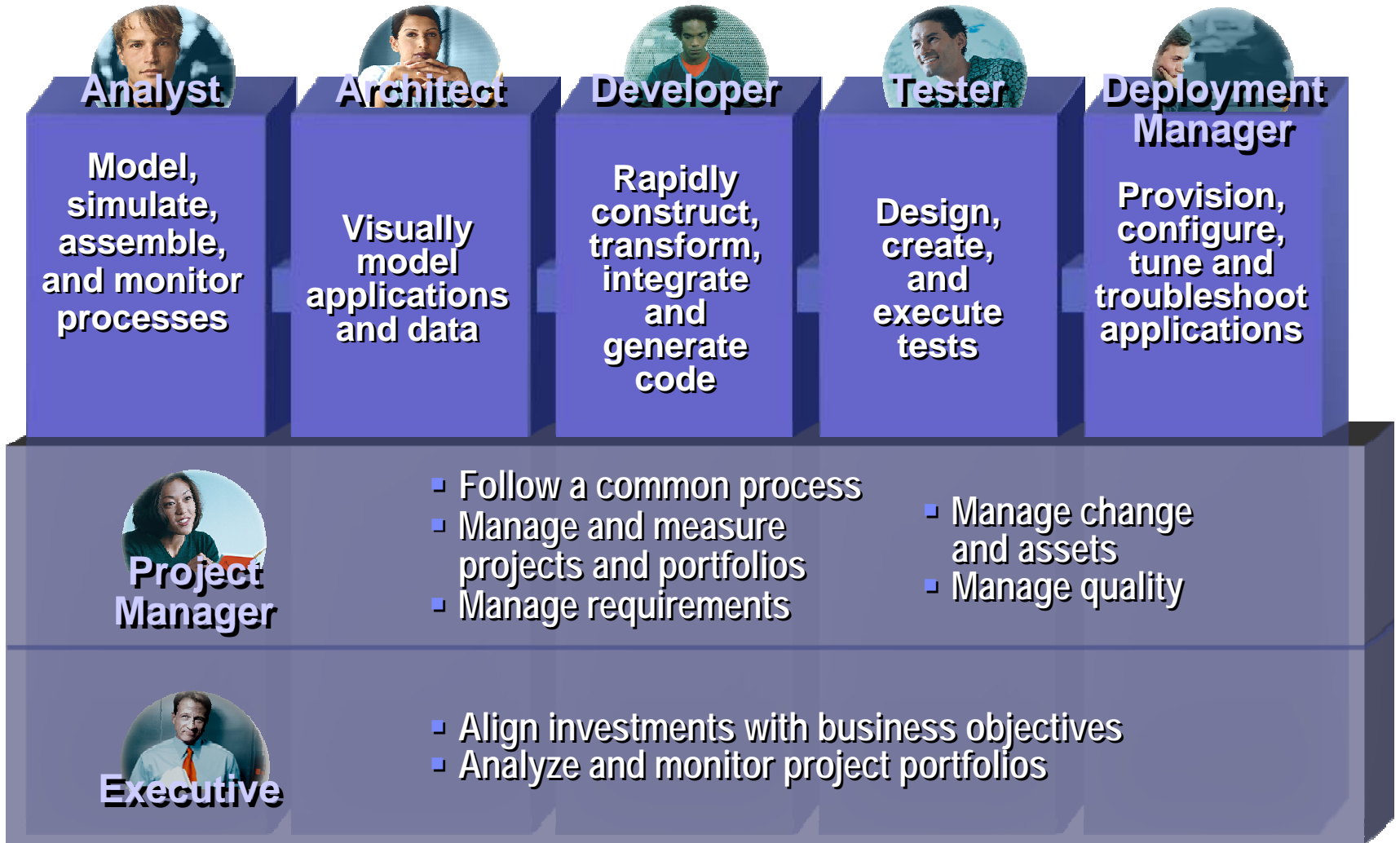


- **Discover business & technology assets**
 - ▶ Business priorities
 - ▶ Requirements
 - ▶ Middleware and software assets
- **Develop at the speed of business**
 - ▶ Rapid application development
 - ▶ Model-driven architecture
 - ▶ Asset-based development
 - ▶ Direct-to-middleware productivity
- **Deploy to closed-loop environments**
 - ▶ Automated applications deployment
 - ▶ Streamlined composite application management
 - ▶ Direct-to-operations productivity
- **Run**
 - ▶ Highest Qualities of service
 - ▶ Broadest ROI's
 - ▶ Utilization of standards/process



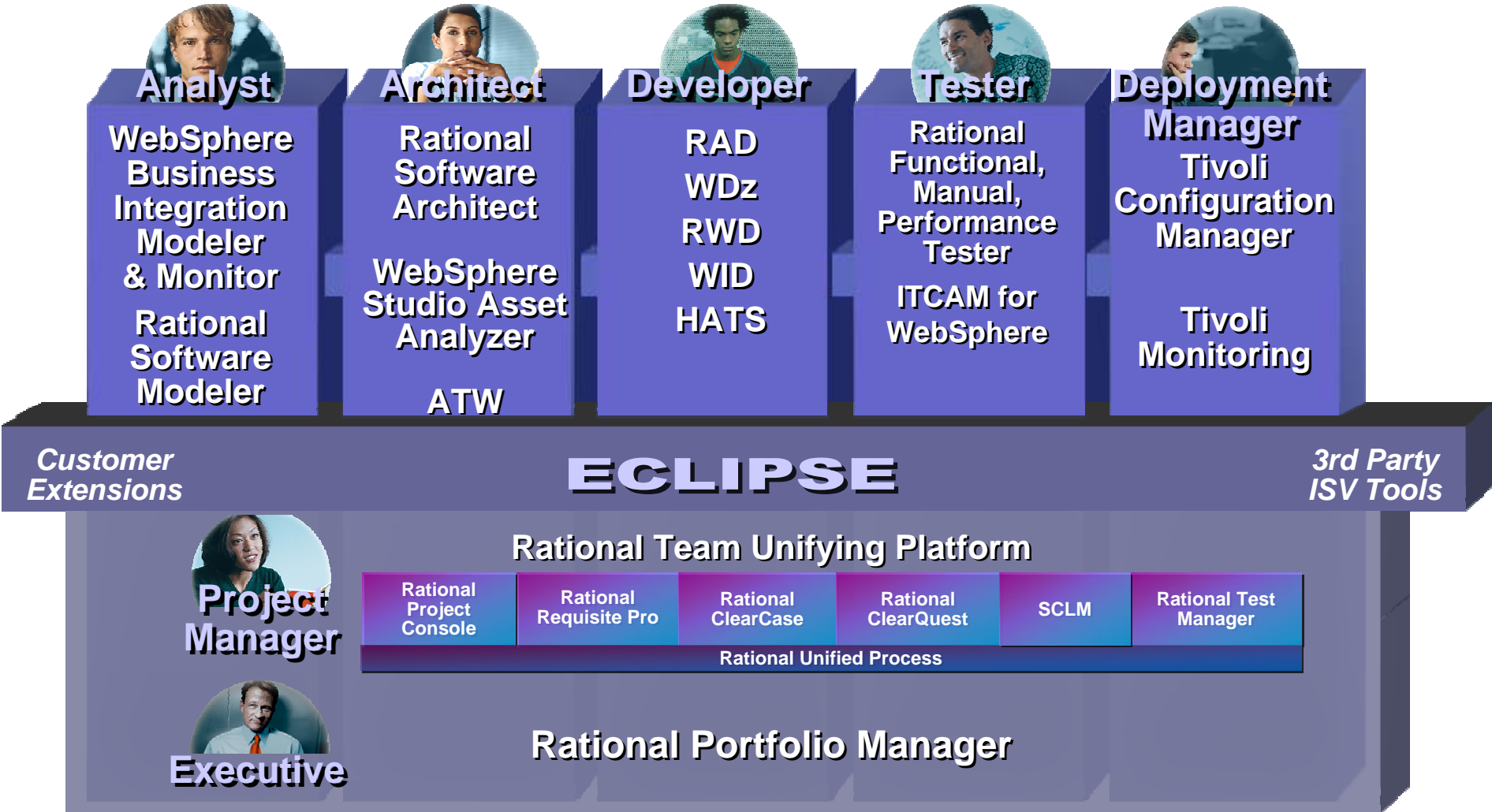
The IBM Software Development Platform

A complete, open, modular, and proven solution

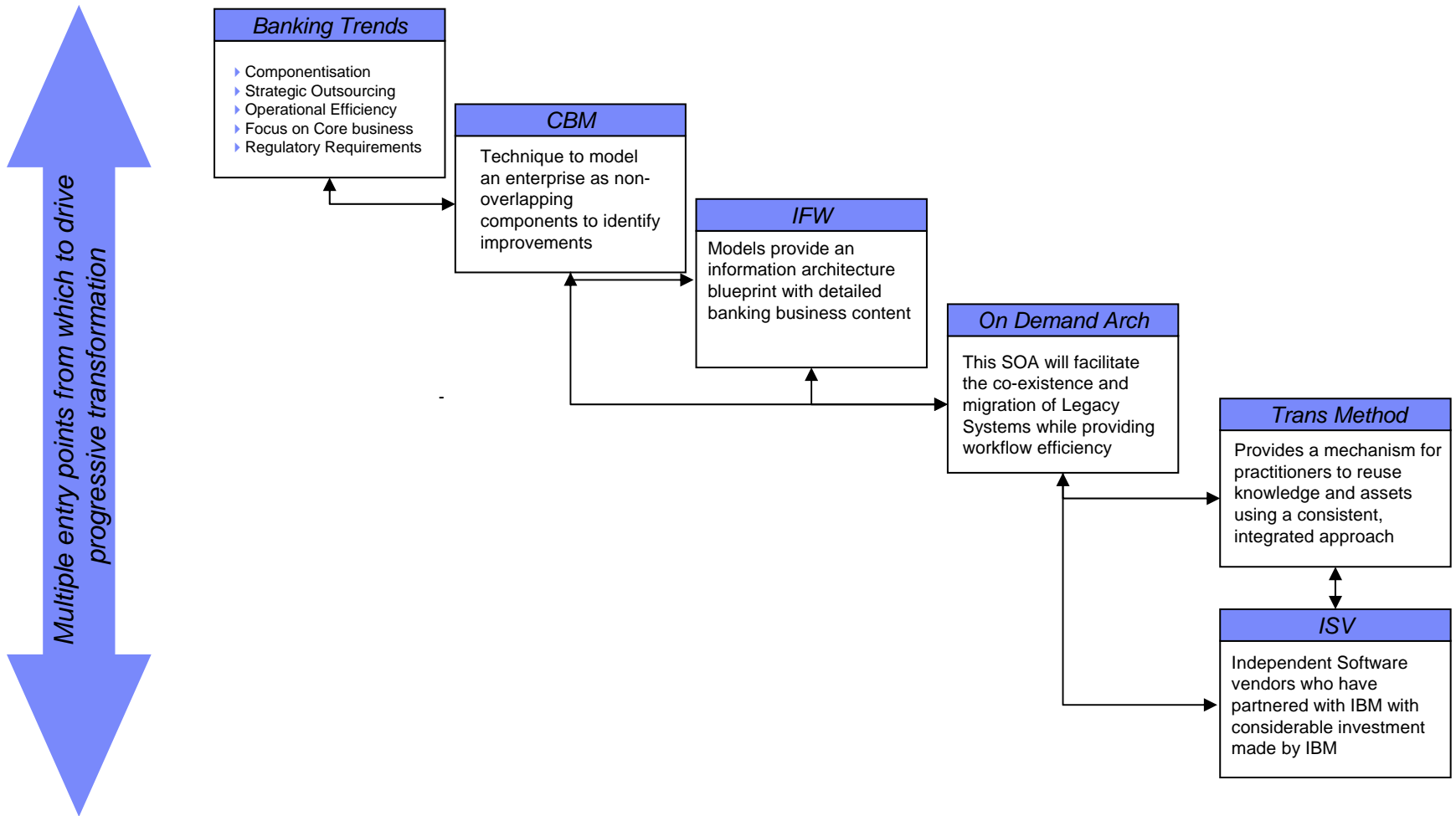


The IBM Software Development Platform

A complete, open, modular, and proven solution



IBM transformation tools and resources span enterprise functions

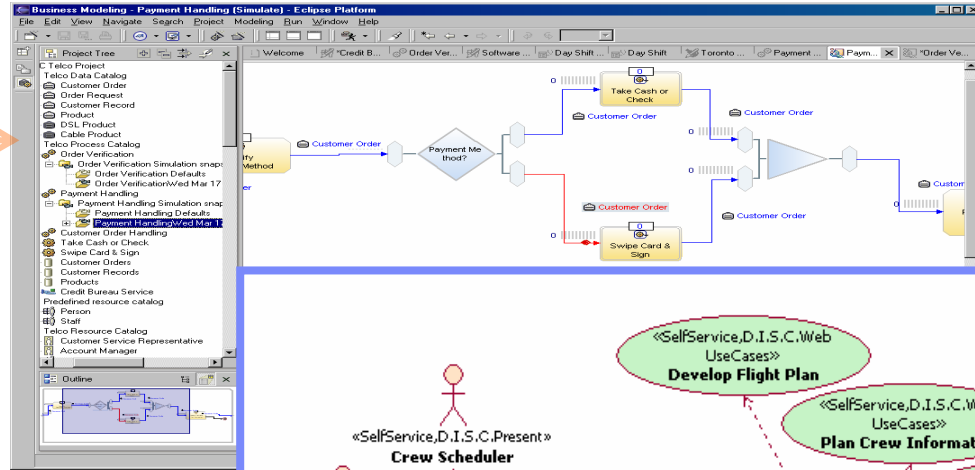


Step one: Model the business

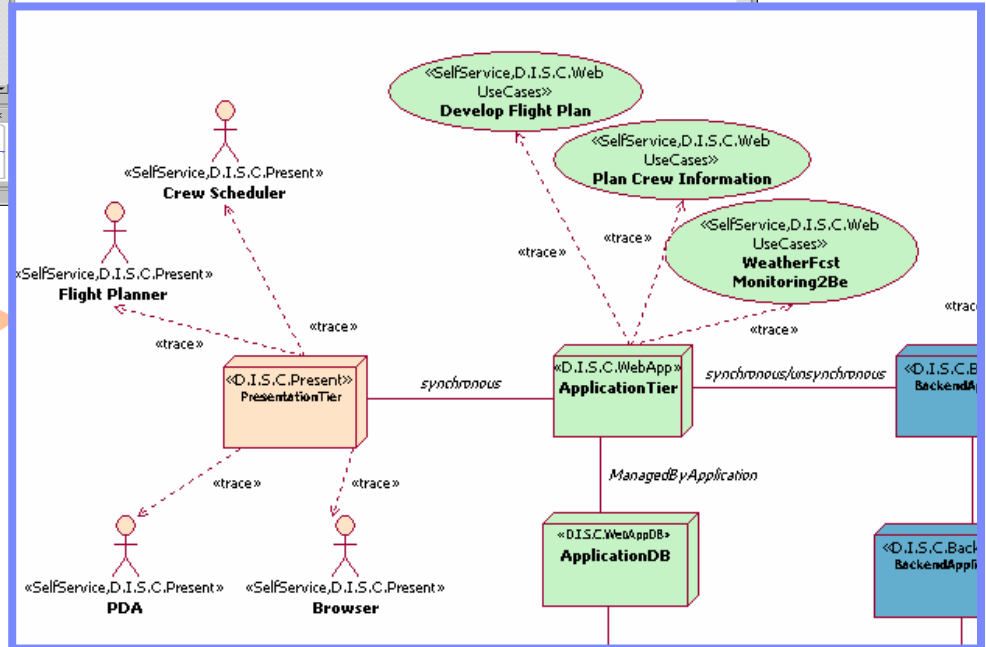
Document business processes and user interactions



Analyst models “as is” business process and explores alternative “to be” business processes



Analyst models “as is” and “to be” user interactions through use cases

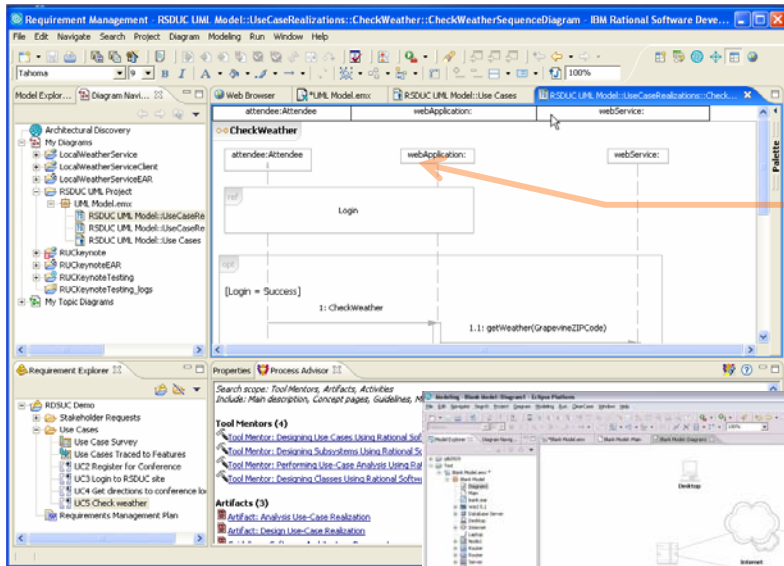


IBM WebSphere Business Integration Modeler
 IBM Rational Software Architect
 IBM WebSphere Developer for zSeries: Service Flow Modeler

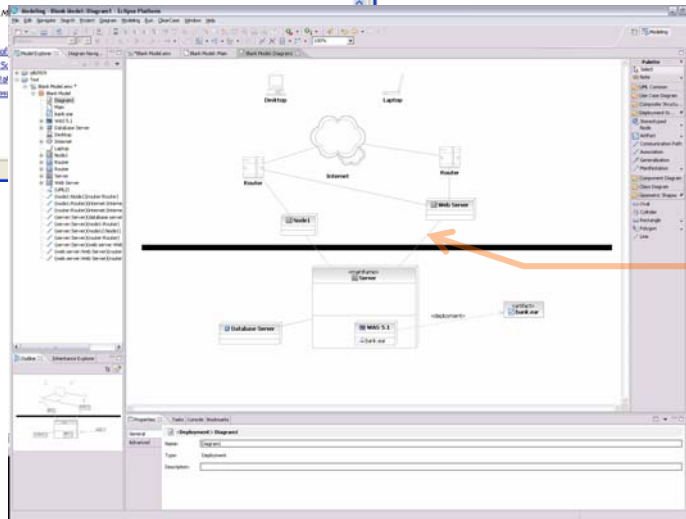


Step three: Discover existing assets, analyze and design application

Minimize risks by understanding architectural dependencies



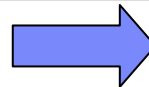
Architect imports business processes and refines application design, based on best practices, and existing assets



Architect models operational model

*IBM Rational Software Architect
IBM WebSphere Asset Analyzer*

IBM Asset Transformation Workbench



IBM WebSphere Business Modeler



Step three: Styles of transformation for zSeries environments

Transform User Experience

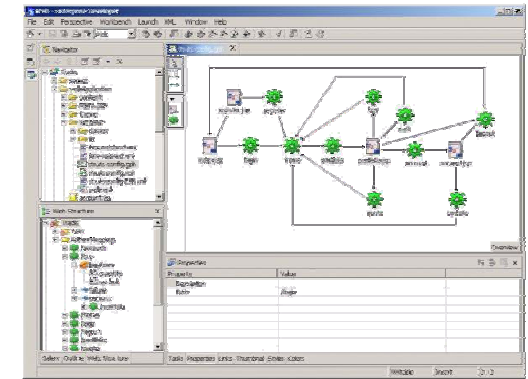
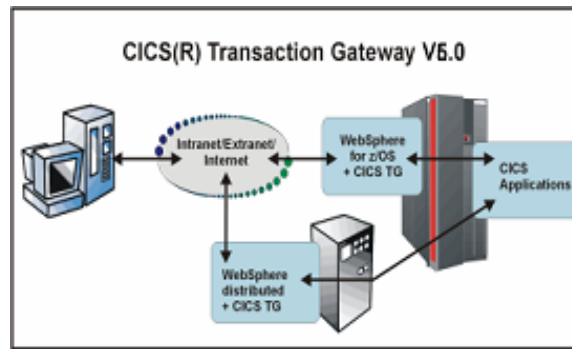
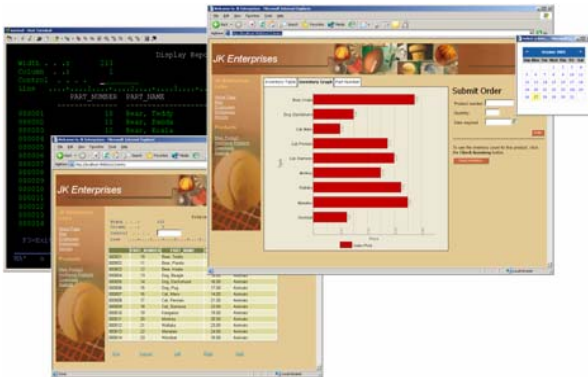
Enhance user interface and workflow for quick return on investment

Transform Application Connectivity

Improve business processes and develop customer, partner and supplier relationships using Web services and Java connectors

Transform Application Architecture

Update and extend mission-critical applications as services, leveraging their core value in new ways

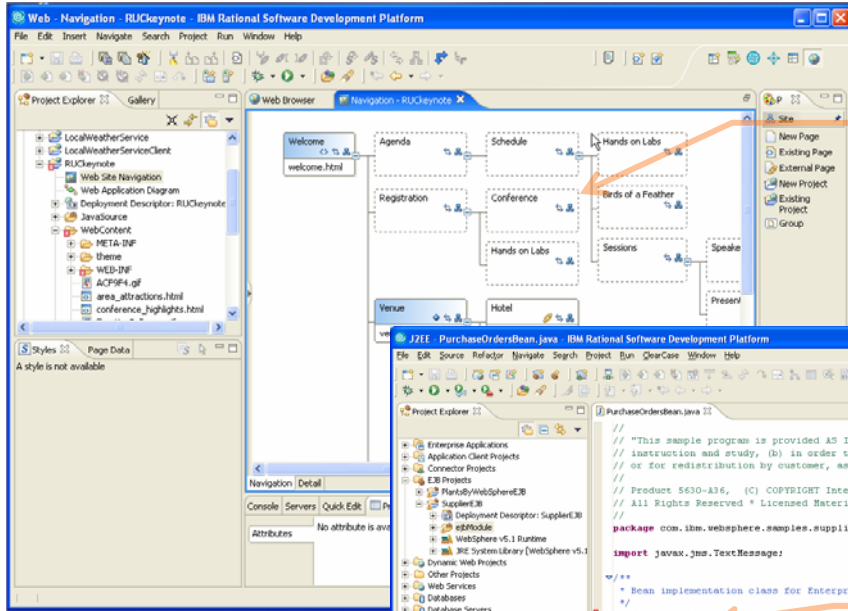


Single integrated delivery vehicle across application transformation styles



Step four: Implement application

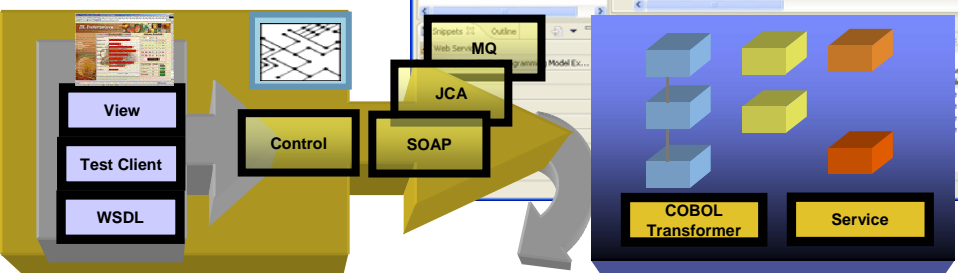
Build higher quality applications in less time



Developer implements application leveraging highly productive J2EE, Java, CICS, IMS, COBOL, PL/I capabilities (JSF, SDO, patterns)



Developer leverages code analysis & unit testing to fix functional, performance, and security problems at the component level

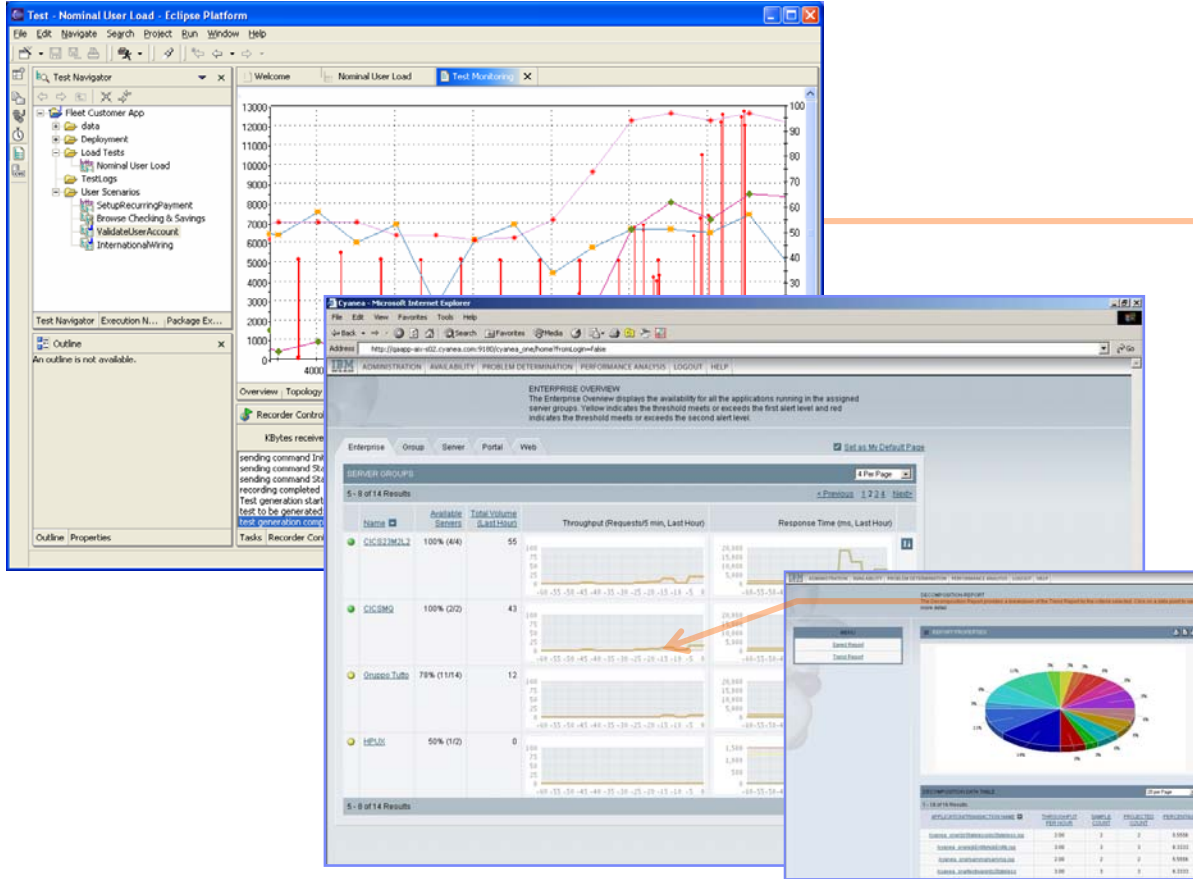


IBM Rational Software Architect
IBM Debug Tool

IBM Rational Application Developer
IBM WebSphere Developer for z/Series

Step ten: Deploy

Plan capacity and ensure compliance with Service Level Agreements



Tester evaluates the scalability of the new application based on Service Level Agreements captured in business model



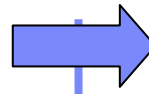
Deployment team builds capacity plans based on performance tests

ITCAM for WebSphere

IBM Fault Analyzer

IBM Candle

IBM Application Performance Analyzer



IBM Rational Performance Tester
IBM Workload Simulator



Step end: Manage

Monitor service levels with a centralized view into your network, systems, middleware, and application performance



The screenshot displays the IBM Tivoli Enterprise Console interface. The top window shows a list of events with columns for Time Received, Class, Hostname, Severity, Status, and Message. A critical event is highlighted: 'TMV_LowAvailCausingManyProble...' with a severity of 'Critical' and status 'Open'. Below this, a performance graph for 'Transaction: STI_FBW_thru_QoS' is shown, with a Y-axis labeled 'Seconds' ranging from 0.0 to 93.75. The graph shows a series of bars representing transaction response times over time. The bottom window shows the 'My Work' section with various configuration and reports options.



Operations Manager monitors application performance and is automatically notified of problems, enabling fast triage to the right stakeholders (application, DB, network, etc.)

IBM Tivoli Enterprise Console
ITCAM for Response Time Tracking

IBM zSeries Software Solutions

Platform Readiness is Key

Platform Readiness

(Technology, Sub-capacity pricing (WLC))

Integrated Tool Set / Enterprise COBOL and PL/I V3

WebSphere
v6

IMS
v9

DB2
v8

CICS
v3

NetView
v5.2

WebSphere
MQ v6

Operating System z/OS 1.6 (1.7 in 1H)

zSeries Hardware & zAAP

Creating SOA composite applications with existing assets



Model



Model a new business process that builds on your current capabilities

WebSphere Business Modeler



...and discover program units and business rules you can reuse in the new process.

WebSphere Studio Asset Analyzer
CICS Interdependency Analyzer
Asset Transformation Workbench



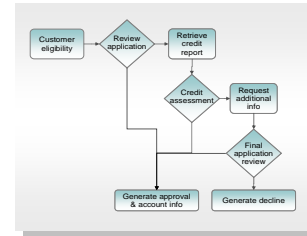
Assemble



Wrap programs as services, creating composite appl'ns from core assets....

WebSphere Developer for zSeries, plus Service Flow Modeler

Rational Application Developer



... and assemble the services across multiple platforms

WebSphere Integration Developer



Deploy



Choreograph and deploy your new composite applications

WebSphere Process Server



... using an advanced ESB to power your SOA

WebSphere Message Broker



Manage



Monitor the processes across your SOA, and intervene if necessary

WebSphere Business Monitor
Tivoli Composite Application Manager for WebSphere



.... and export data for analysis and process improvement, back to

WebSphere Business Modeler



Thank
YOU

