Innovate2012

The Premier Event for Software and Systems Innovation
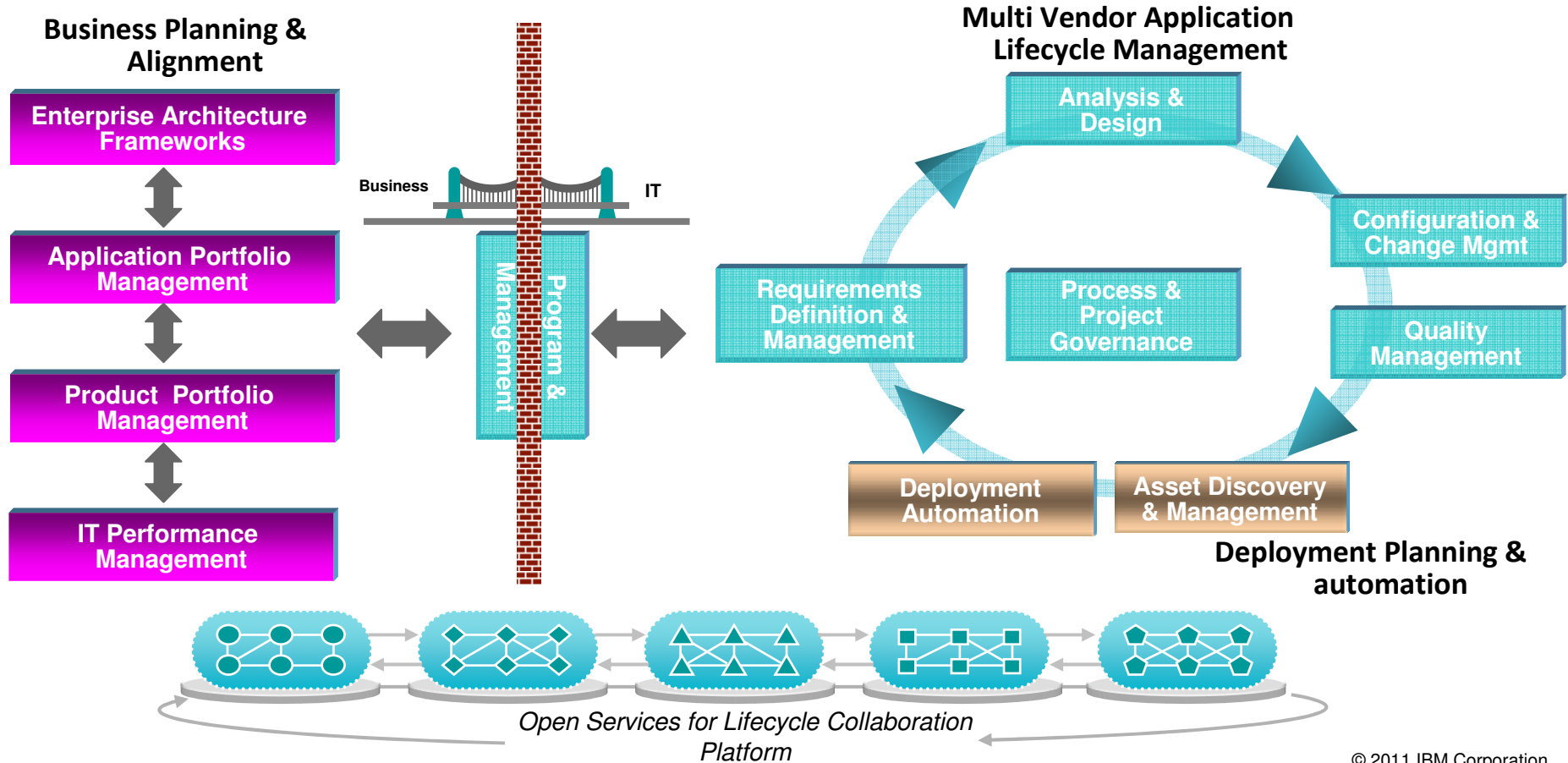
Next NOW!

Smarter Software Delivery

Kedar Walimbe
Client Technical Professional Leader
IBM Rational ASEAN.

Smarter Software Delivery

Business Planning & Alignment

Enterprise Architecture Frameworks

Application Portfolio Management

Product Portfolio Management

IT Performance Management

Business

IT

Program & Management

Multi Vendor Application Lifecycle Management

Analysis & Design

Requirements Definition & Management

Process & Project Governance

Configuration & Change Mgmt

Quality Management

Deployment Automation

Asset Discovery & Management

Deployment Planning & automation

Open Services for Lifecycle Collaboration Platform
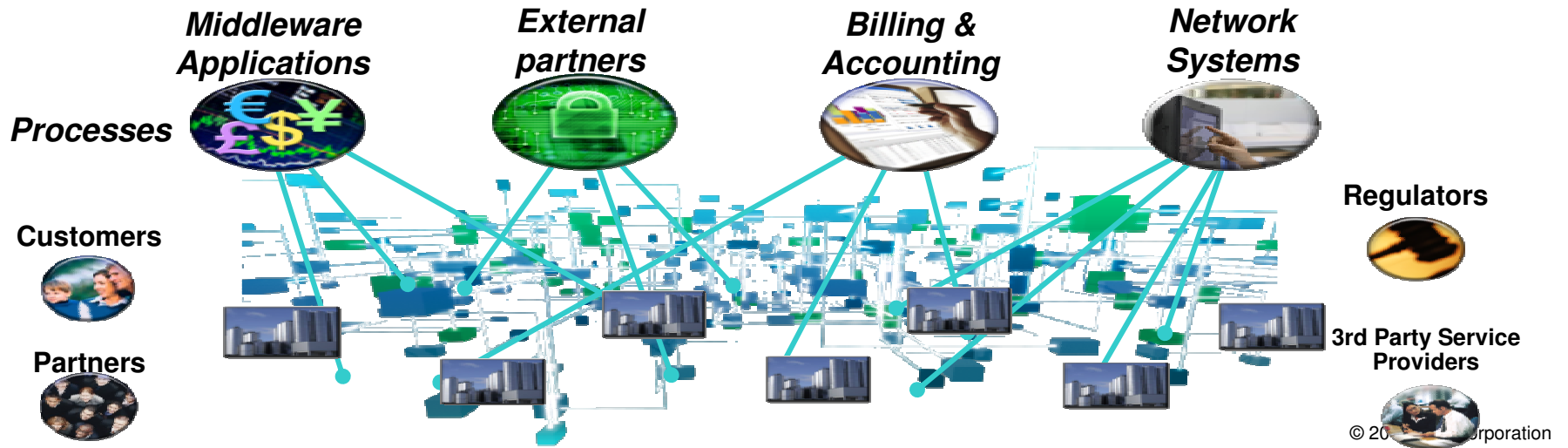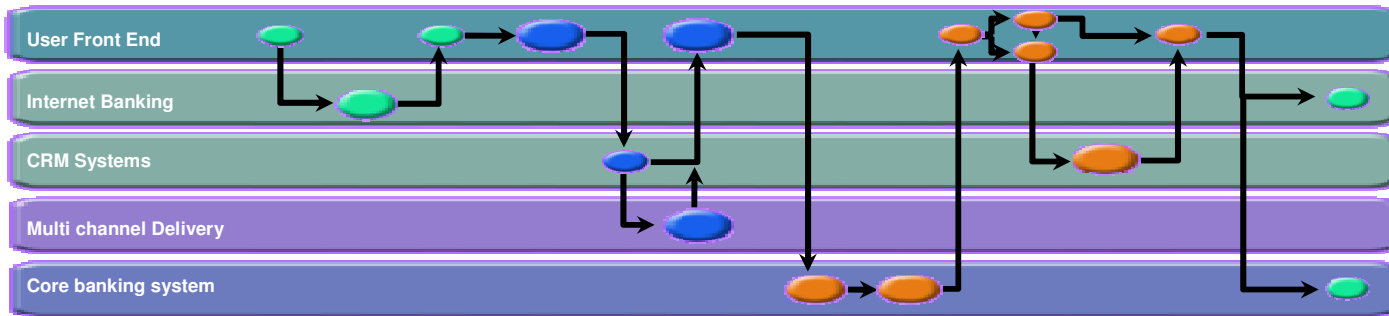
Use Case 1: Managing "Systems of Systems"

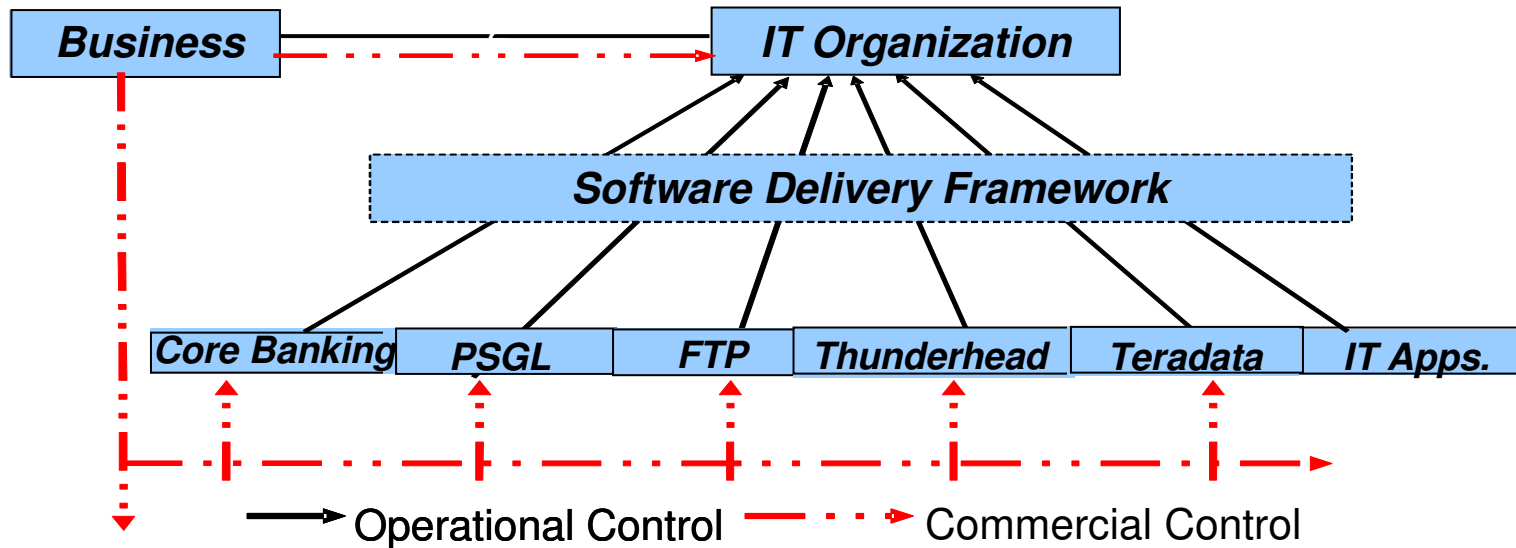*From back-end software to customer facing portals, systems of systems drive your relationships with customers, suppliers and business partners*

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Use Case 2: Increased Focus *Service Innovation*

Single Business Service has many touch points

| User Front End |
| Internet Banking |
| CRM Systems |
| Multi channel Delivery |
| Core banking system |

Middleware Applications

External partners

Billing & Accounting

Network Systems

Processes

Customers

Partners

Regulators
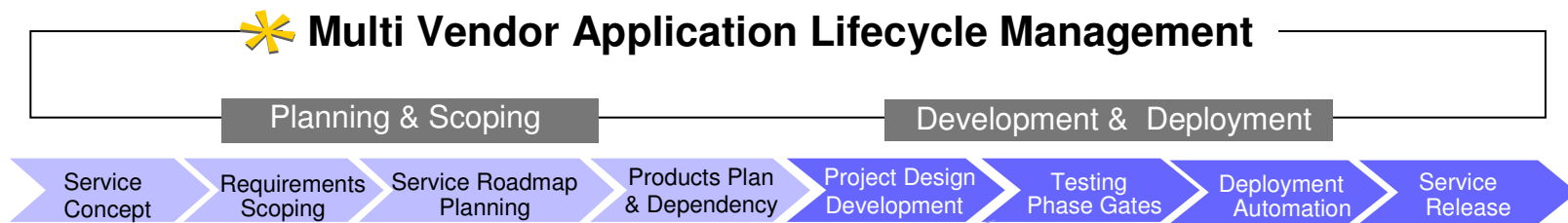
3rd Party Service Providers

Use Case 3: Establish *Software Delivery Governance*

- S**RACI**, roles and responsibilities defined between the bank, SI and the application vendors**LA's** - To ensure strict adherence to the delivery quality and schedule
- **RACI** - Roles & responsibilities defined between the bank IT, SI & application vendors
- **Delivery Process -** Framework including delivery processes, change management
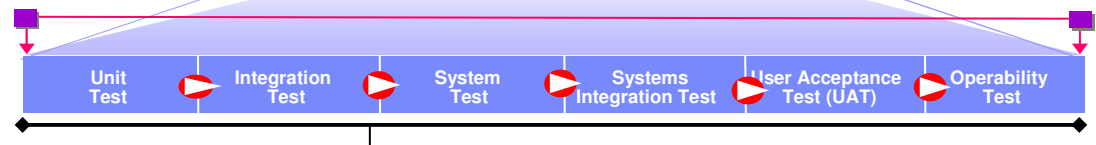- **Deliverables & Acceptance criteria** for each of the deliverables clearly laid out

5

Smarter Software Delivery
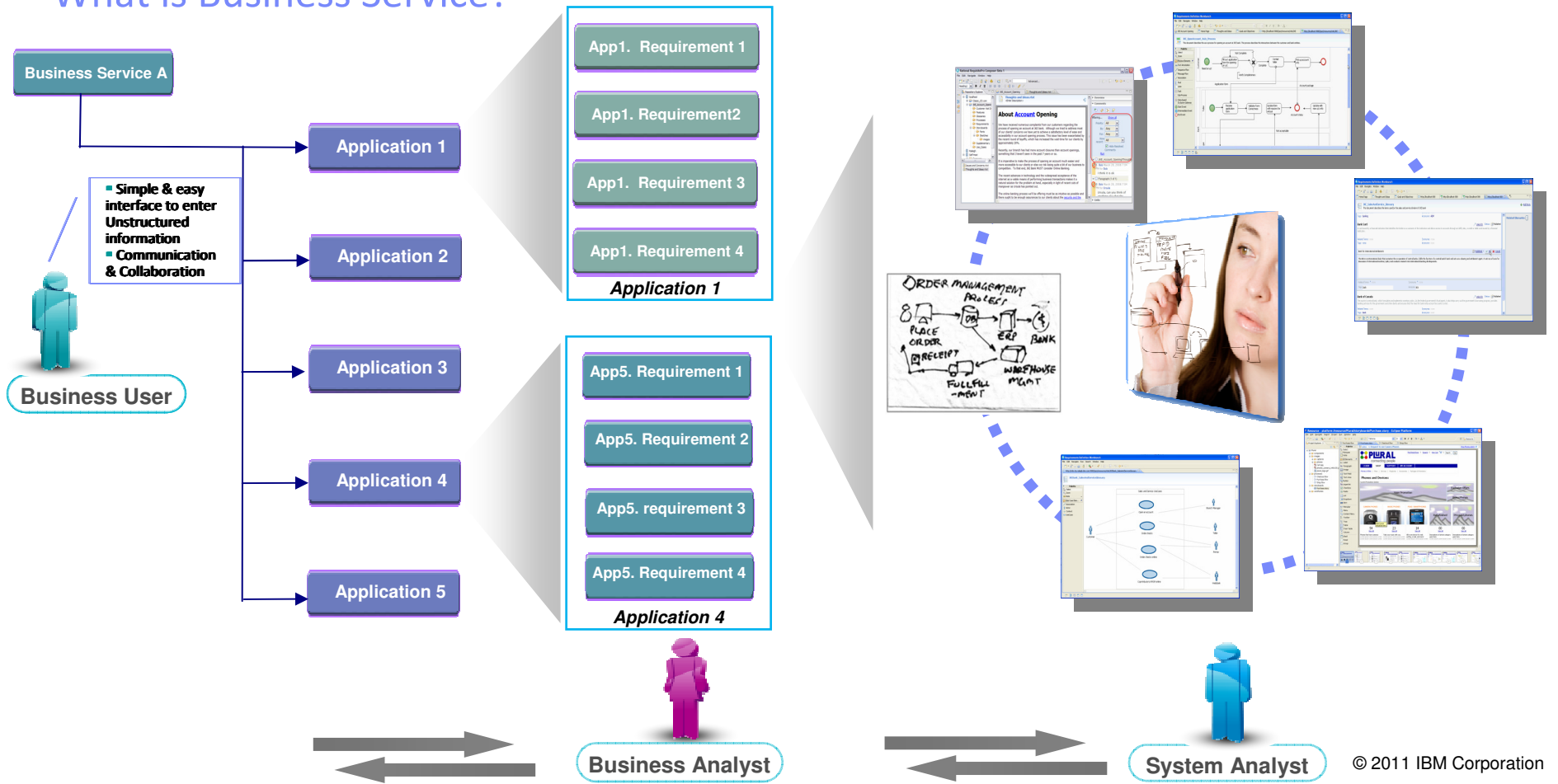
◀ *Improving Performance of IT Software Delivery*

✳ **Multi Vendor Application Lifecycle Management**

Planning & Scoping	Development & Deployment

Service Concept	Requirements Scoping	Service Roadmap Planning	Products Plan & Dependency	Project Design Development	Testing Phase Gates	Deployment Automation	Service Release

✳ **Program & Release Planning**

- Business Requirements Management
- Product Roadmap Planning
- Realistic Release Plans

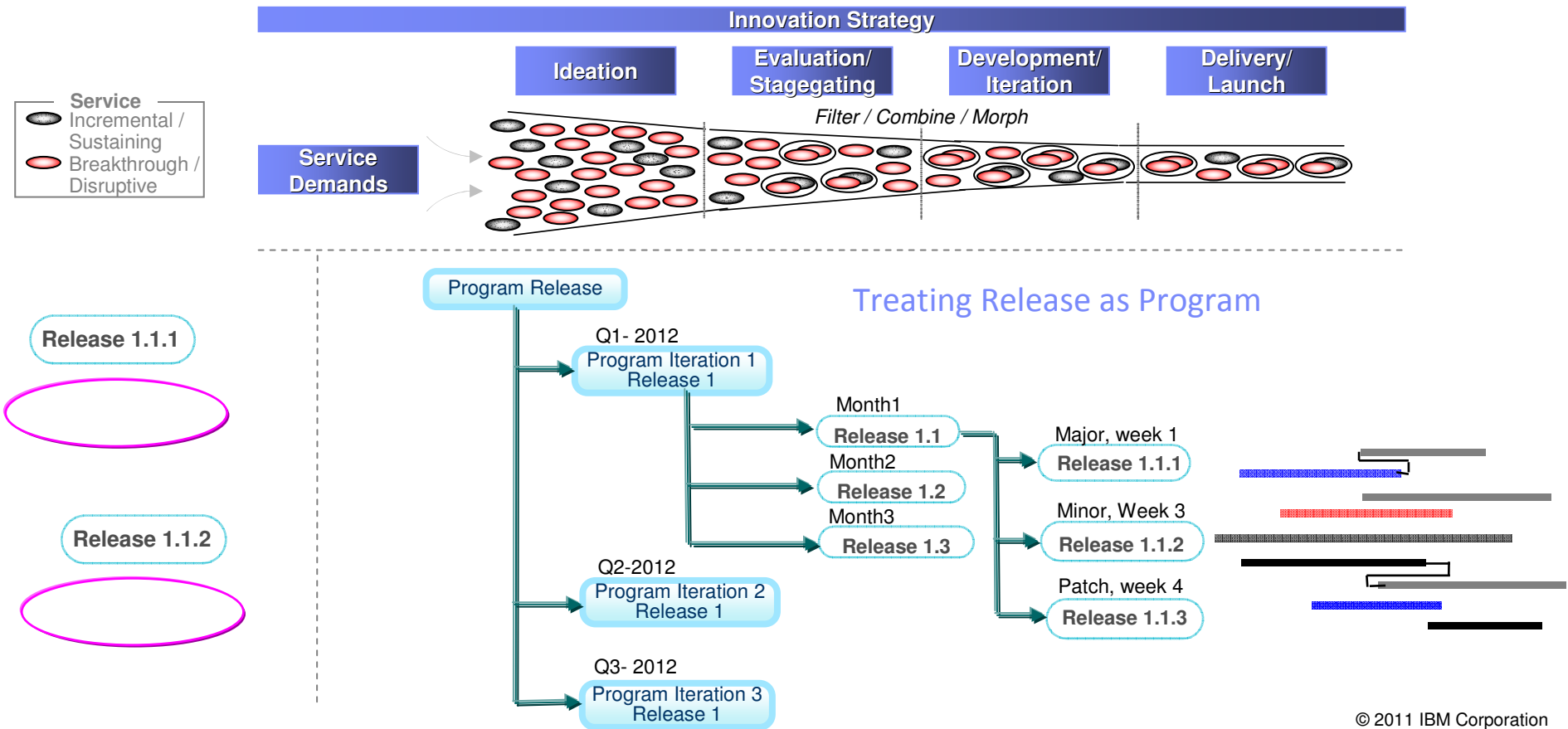| Unit Test	Integration Test	System Test	Systems Integration Test	User Acceptance Test (UAT)	Operability Test

✳ **Design, Development & Deployment Framework**

- Single framework managing in-house, outsource, packaged ALM on various technologies and platforms.

- Automated deployment of multiple Applications across multiple environments with improved control & predictability.

What is Business Service?

Business Service A

Business User

- Simple & easy interface to enter Unstructured information
- Communication & Collaboration

Application 1

Application 2

Application 3

Application 4

Application 5

App1. Requirement 1

App1. Requirement2

App1. Requirement 3

App1. Requirement 4

Application 1

App5. Requirement 1

App5. Requirement 2

App5. requirement 3

App5. Requirement 4

Application 4

Business Analyst

ORDER MANAGEMENT PROJECT

PLACE ORDER

RECEIPT

FULLFILL -MENT

DB

ERP

BANK

WAREHOUSE MGMT

System Analyst

Continuous pipeline of Innovative Services

Innovation Strategy

| Ideation | Evaluation/ Stagegating | Development/ Iteration | Delivery/ Launch |

Service
Incremental /
Sustaining
Breakthrough /
Disruptive

Service Demands

Filter / Combine / Morph

Release 1.1.1

Release 1.1.2

Program Release

Treating Release as Program

Q1- 2012
Program Iteration 1
Release 1

Month1
Release 1.1

Month2
Release 1.2

Month3
Release 1.3

Major, week 1
Release 1.1.1

Minor, Week 3
Release 1.1.2

Q2-2012
Program Iteration 2
Release 1

Patch, week 4
Release 1.1.3

Q3- 2012
Program Iteration 3
Release 1

Release & Program Planning with Requirements Management

Program Management & Release Planning Benefits

Release Planning — Business Requirements Management — Program Planning

Program Director

Business Analyst

LOB Heads

Application Heads

IT Project Managers
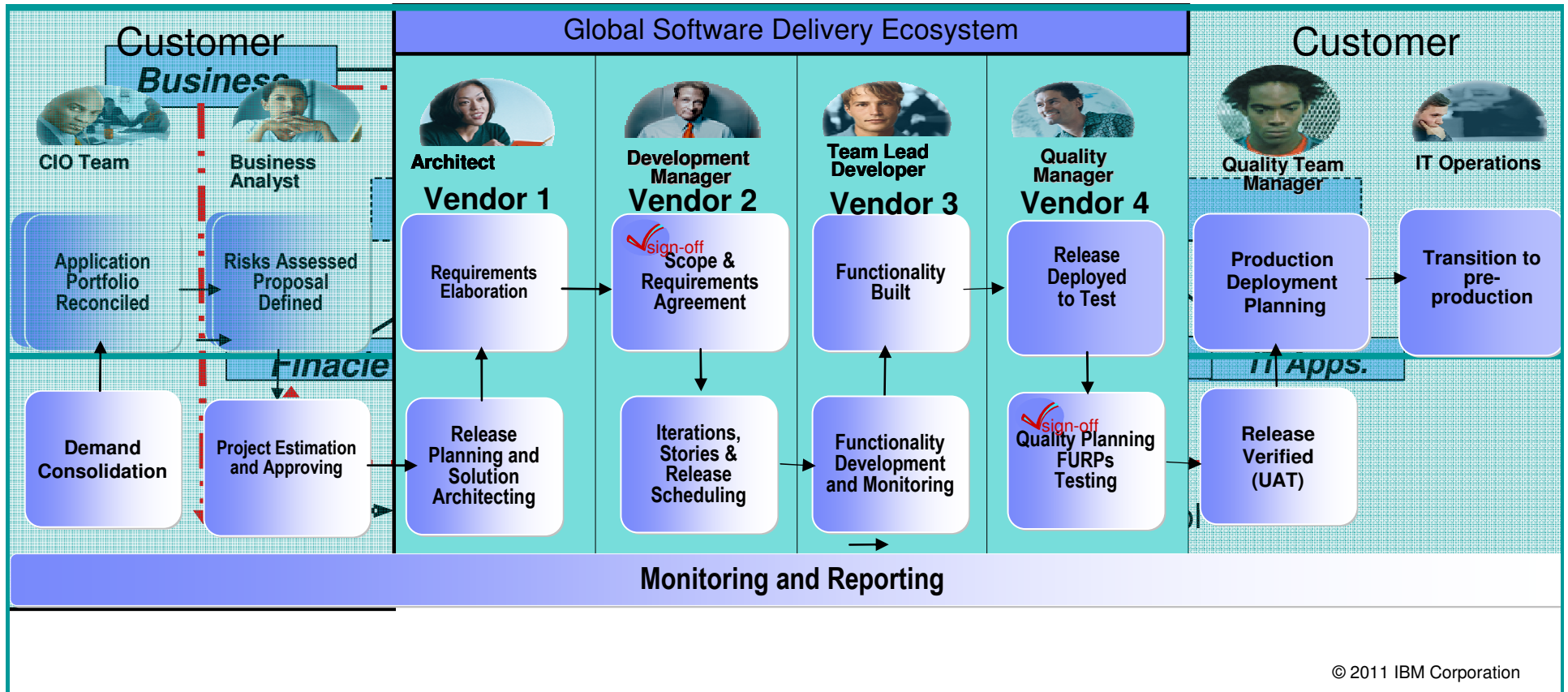
Transformation Head
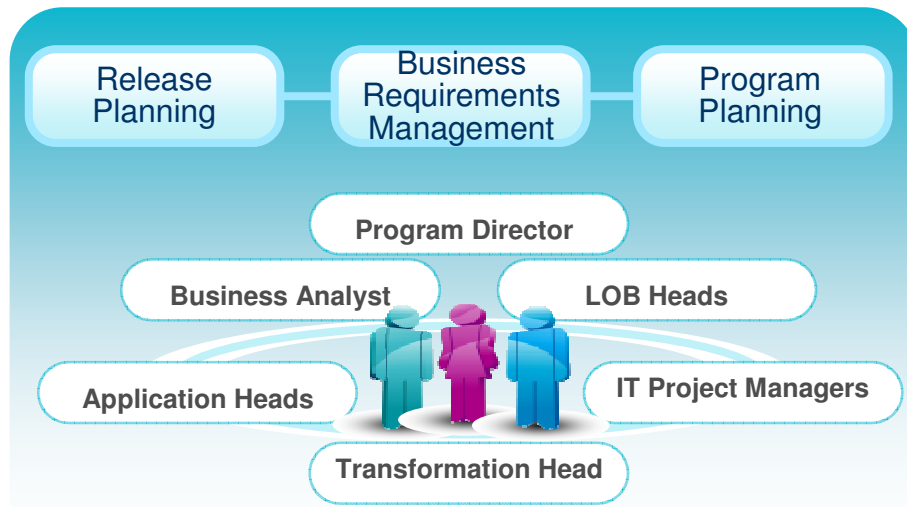
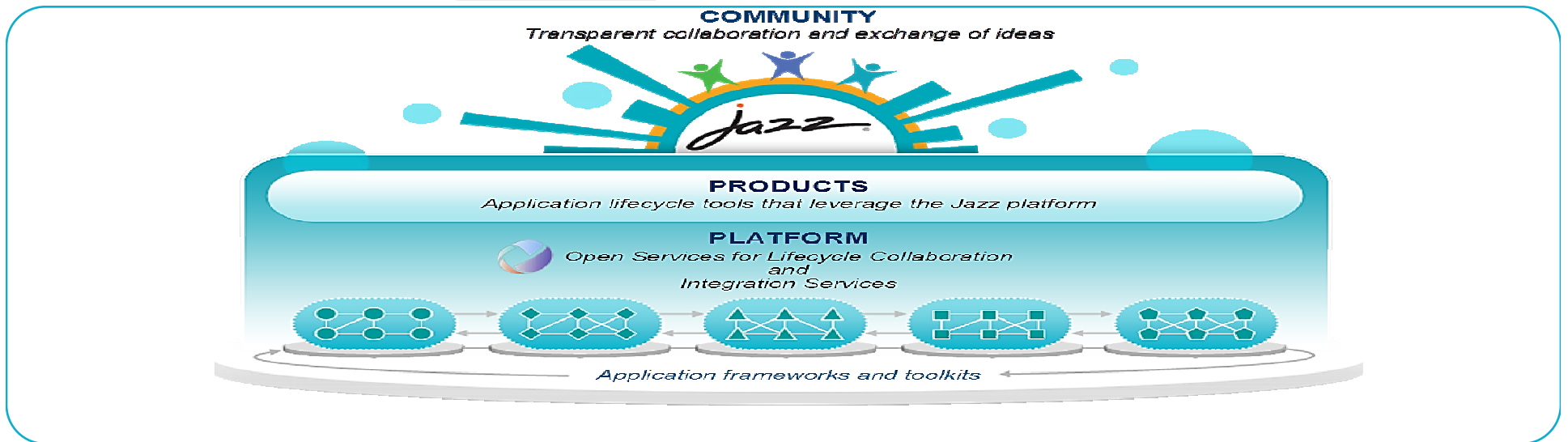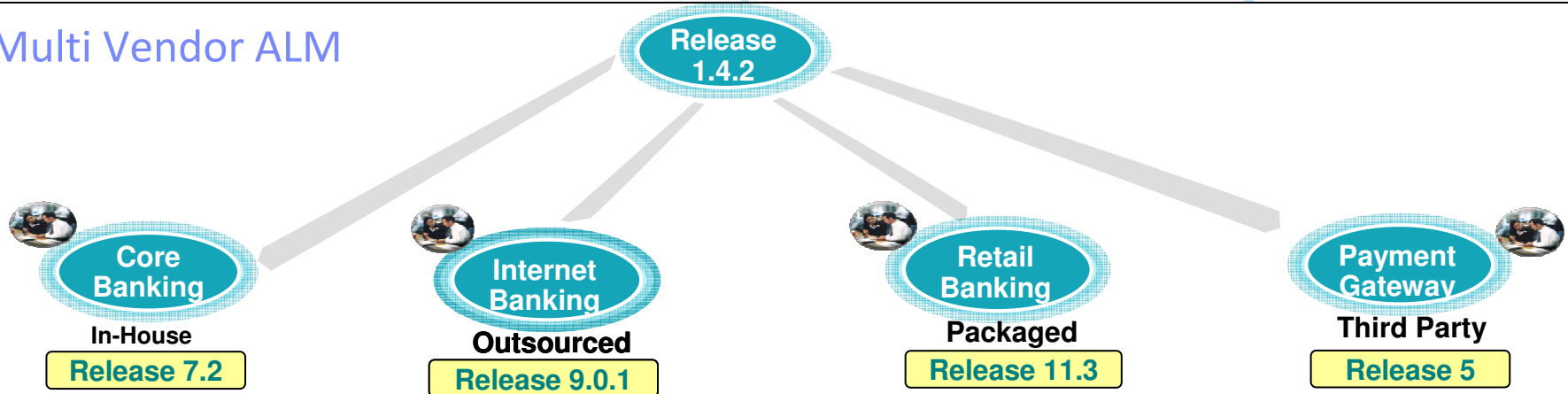### Mitigate Risks in Software Delivery Lifecycle

- **Manage & Balance Software Delivery Risks** Capture resource, Schedule & dependency constraints to identify potential risks

- **Build the Right Things** Integrated Business & IT Requirements Management

- **Create Realistic Delivery Plans** Define initiatives based on resources & Schedule.

- **Visibility into Project & Process Outcomes** Get Real-time visibility into key performance indicators

- **Linking Business Plans with IT delivery** Delegate delivery Plans to development teams using integrated platform

Multi Vendor Software Delivery Governance

Software Delivery Model

Nearly any slice in the SDLC can be outsourced today.

Customer

Business

CIO Team

Business Analyst

Application Portfolio Reconciled	Risks Assessed Proposal Defined
Demand Consolidation	Project Estimation and Approving

Finacle

Global Software Delivery Ecosystem

Architect
Vendor 1

Development Manager
Vendor 2

Team Lead Developer
Vendor 3

Quality Manager
Vendor 4

Requirements Elaboration	✓ sign-off Scope & Requirements Agreement	Functionality Built	Release Deployed to Test
Release Planning and Solution Architecting	Iterations, Stories & Release Scheduling	Functionality Development and Monitoring	✓ sign-off Quality Planning FURPs Testing

Customer

Quality Team Manager

IT Operations

Production Deployment Planning	Transition to pre-production
Release Verified (UAT)	

IT Apps.

Monitoring and Reporting

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Multi Vendor ALM

Release 1.4.2

Core Banking

In-House

Release 7.2

Internet Banking

Outsourced

Release 9.0.1

Retail Banking

Packaged

Release 11.3

Payment Gateway

Third Party

Release 5

COMMUNITY

Transparent collaboration and exchange of ideas

Jazz

PRODUCTS

Application lifecycle tools that leverage the Jazz platform

PLATFORM

Open Services for Lifecycle Collaboration and Integration Services

Application frameworks and toolkits

Multi Vendor Application
Lifecycle Management

Multi Vendor Application Lifecycle Management

Integrated Project Management

Requirements Management

Change & Configuration Management

Quality Management

Project Manager

Analyst

Developer

Team Leads

Quality Professionals

IT Operations

Deliver High Value & Low Risks Projects

- **Better Project Management Approach** Lean Development methodology for software delivery Projects with real-time planning.

- **Connecting Strategy to Delivery** Effectively connecting business needs to application requirements with test cases.

- **Getting it Right for the first time** Improved requirements definition, elicitation and Management.

- **Visibility into Project & Releases** Performance measurement & Development Intelligence

- **Efficient Process Governance** Quick-start process templates integrating to project execution

Rational Collaborative Lifecycle Management

Open Services for Lifecycle Collaboration

REQUIREMENTS MANAGEMENT
Manage all requirements
with full traceability across the lifecycle
Rational Requirements Composer

QUALITY MANAGEMENT
Achieve "quality by design" with an
integrated, automated testing process
Rational Quality Manager

ARCHITECTURE & DESIGN
Use modeling to validate requirements, architecture
and design throughout the development process
Rational Design Manager
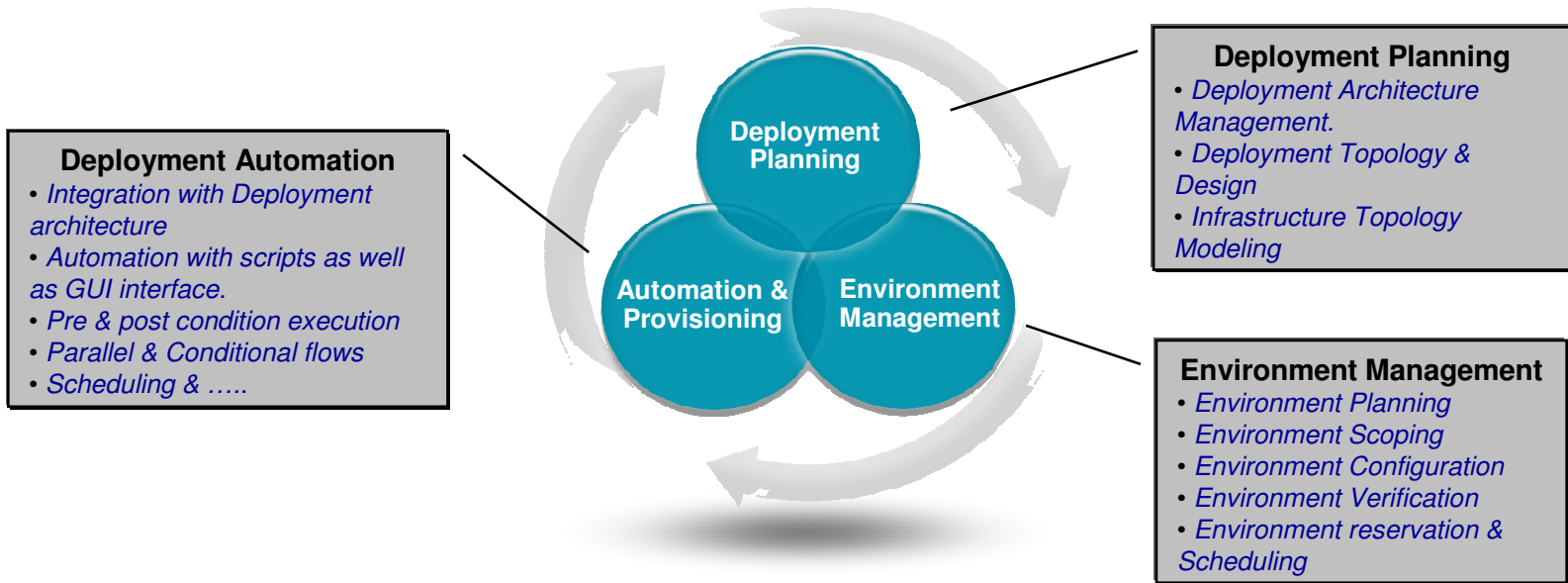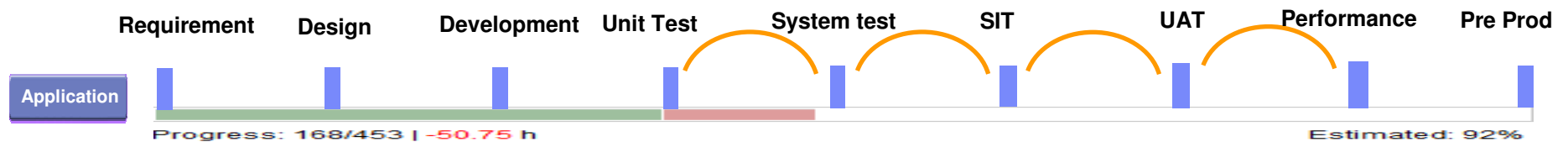
COLLABORATION, PLANNING & CHANGE MANAGEMENT
Collaborate across diverse engineering disciplines and development teams
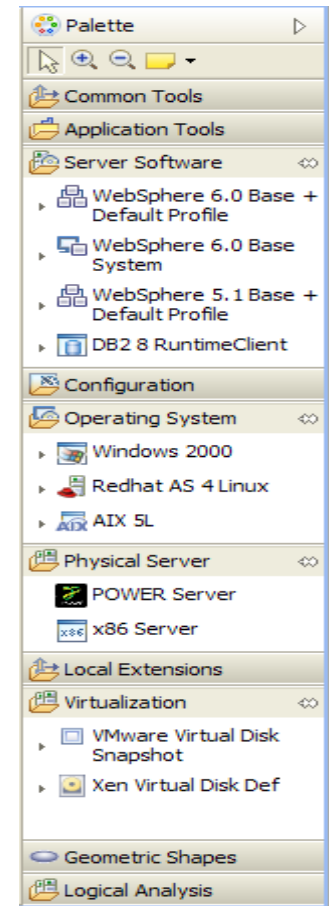**Rational Team Concert**

Deployment management & Environment Management

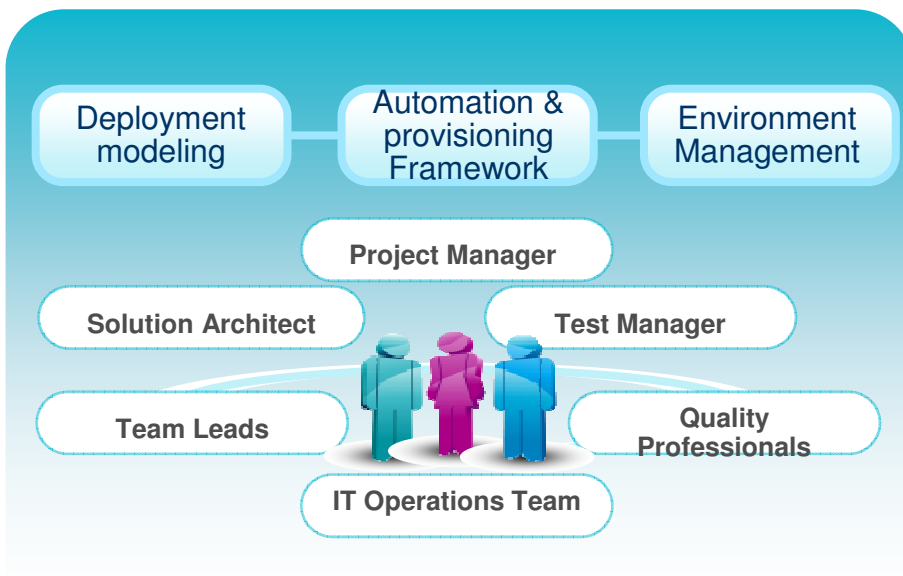*key components for Accelerating Software Delivery*

| Requirement | Design | Development | Unit Test | System test | SIT | UAT | Performance | Pre Prod |

Application

Progress: 168/453 | -50.75 h   Estimated: 92%

Deployment Planning
- *Deployment Architecture Management.*
- *Deployment Topology & Design*
- *Infrastructure Topology Modeling*

Deployment Planning

Automation & Provisioning

Environment Management

Deployment Automation
- *Integration with Deployment architecture*
- *Automation with scripts as well as GUI interface.*
- *Pre & post condition execution*
- *Parallel & Conditional flows*
- *Scheduling & …..*

Environment Management
- *Environment Planning*
- *Environment Scoping*
- *Environment Configuration*
- *Environment Verification*
- *Environment reservation & Scheduling*

Infrastructure Topology Modeling

Deployment Planning & Test Lab
Management

Deployment & Environment Management

Deployment modeling	Automation & provisioning Framework	Environment Management

Project Manager

Solution Architect

Test Manager

Team Leads

Quality Professionals

IT Operations Team

Improve Predictability & Speed of Delivery

- **Achieve Consistency in deployments**
  Design & dictate accurate deployment models

- **Communicate efficiently across teams**
  Leverage standard configurations, templates and artifacts

- **Leverage highest level of Automation**
  Automate all manual & repetitive tasks increasing frequency of deployments

- **Establish governance for deployments**
  Utilize deployment plans & workflows to provide automated application deployment

- **Single Source of truth** Central repository of assets for auditing & compliance requirements.

Summary