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ORACLE® SOA Success Methodology

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Agenda

- Customer Needs
- Ingredients to Successful SOA
- The Role of Enterprise Architecture
- SOA Methodology Key tasks
- Role of Applications and AIA
- Summary

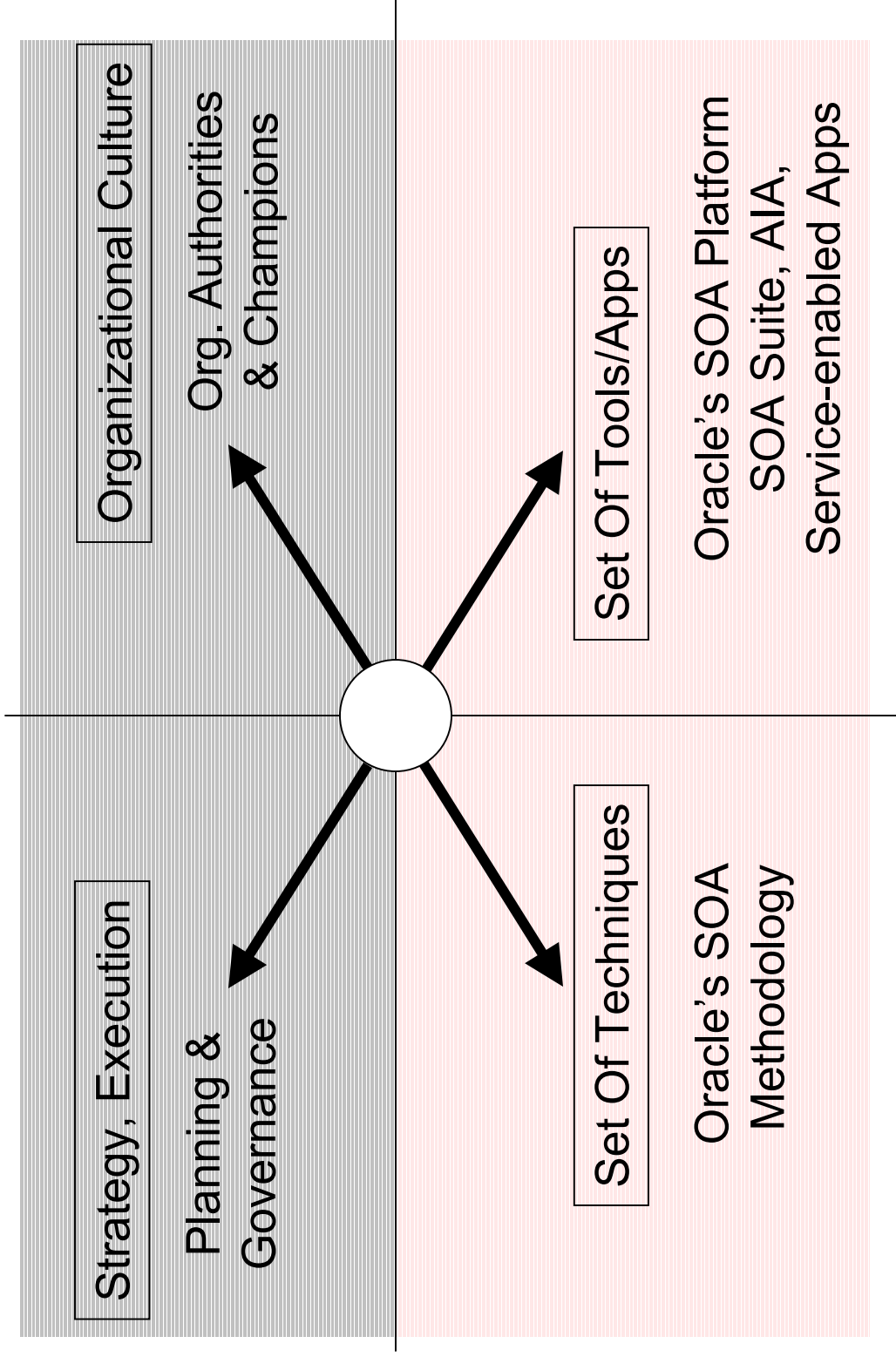


Customer Needs

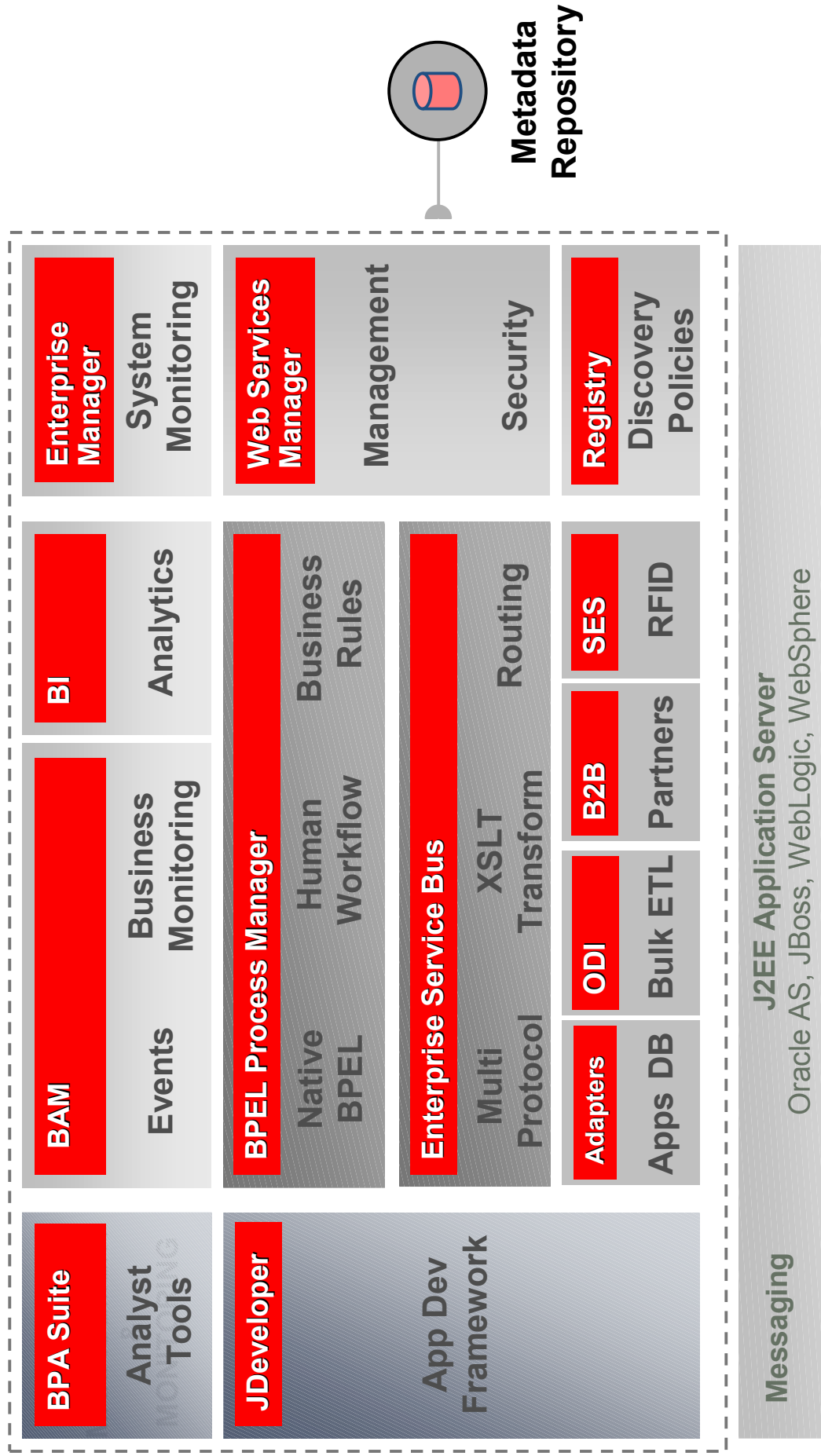
- Show ROI from SOA
 - Most companies have at most done proprietary EAI
- Leverage Experience for Wider Adoption
 - Most companies have completed isolated projects
- Start Driving SOA at Enterprise Level
 - Most companies are asking for help planning adoption at a “pace” and “style” customized for their requirements
- Apply Suitable Methodology For SOA
 - Most companies realize that they have to do things differently to be successful with SOA, but don’t know what!
- Oracle SOA Success Methodology Addresses These



Key Ingredients to SOA Success



The Oracle SOA Technologies





Oracle SOA Success Strategy



SOA PROJECT METHODOLOGY

Maturity Model	Project Methodology	Business Value Analysis	Readiness Assessment	Reference Architectures	Discovery Questionnaire
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SOA IMPLEMENTATION SERVICES

SOA TECHNOLOGY PLATFORM | APPLICATION BUILT TO SOA

Ensuring Customer Success With SOA

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How Customers/ Partners are Benefiting

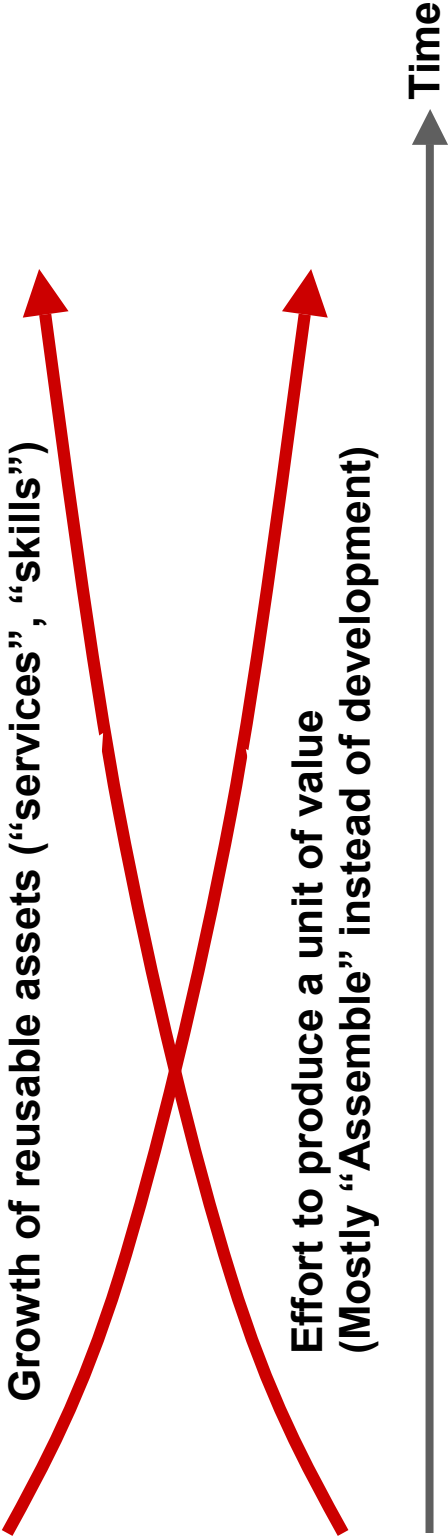
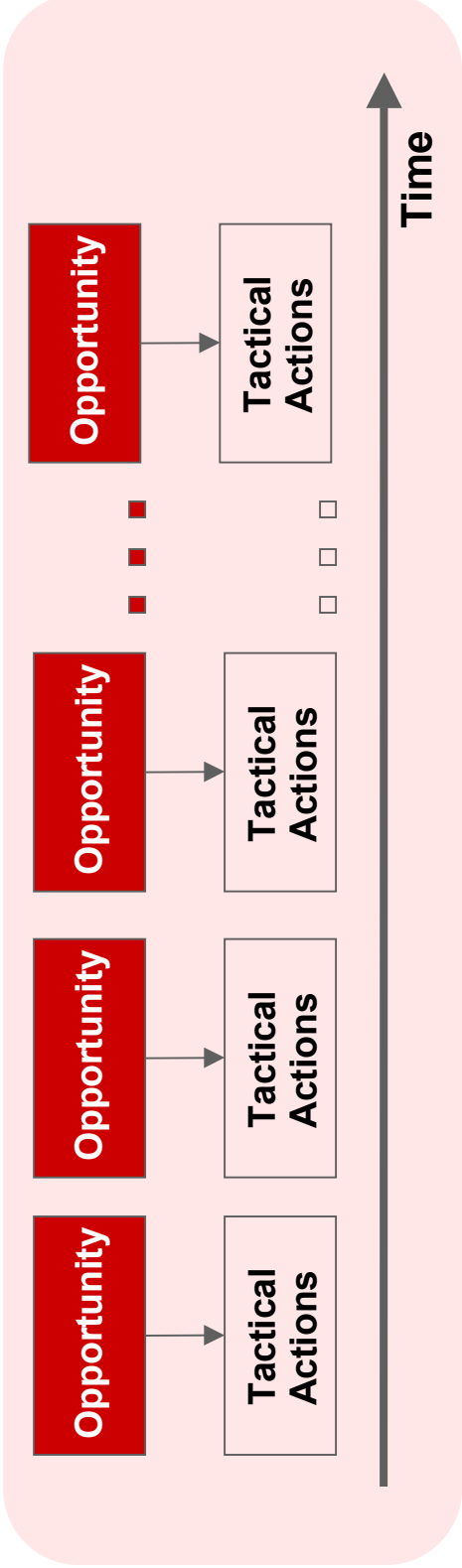
- Department in the US Government
 - Leverage SOA for information exchange between groups
 - Planning enterprise-wide SOA application of the Methodology
- A Multi-National European Bank
 - Started with service-oriented EAI (CRM and few back-end apps)
 - Using SOA Methodology techniques to plan enterprise-level SOA adoption (2-3 year roll-out plan)
- One of the Largest SIs in APAC
 - Goal is to develop a SOA Competency Center
 - Adopting Oracle's SOA Methodology techniques into their SOA practice

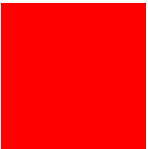


To EA or not to EA – That is *The Question*



Plan Strategically, Act Tactically With SOA



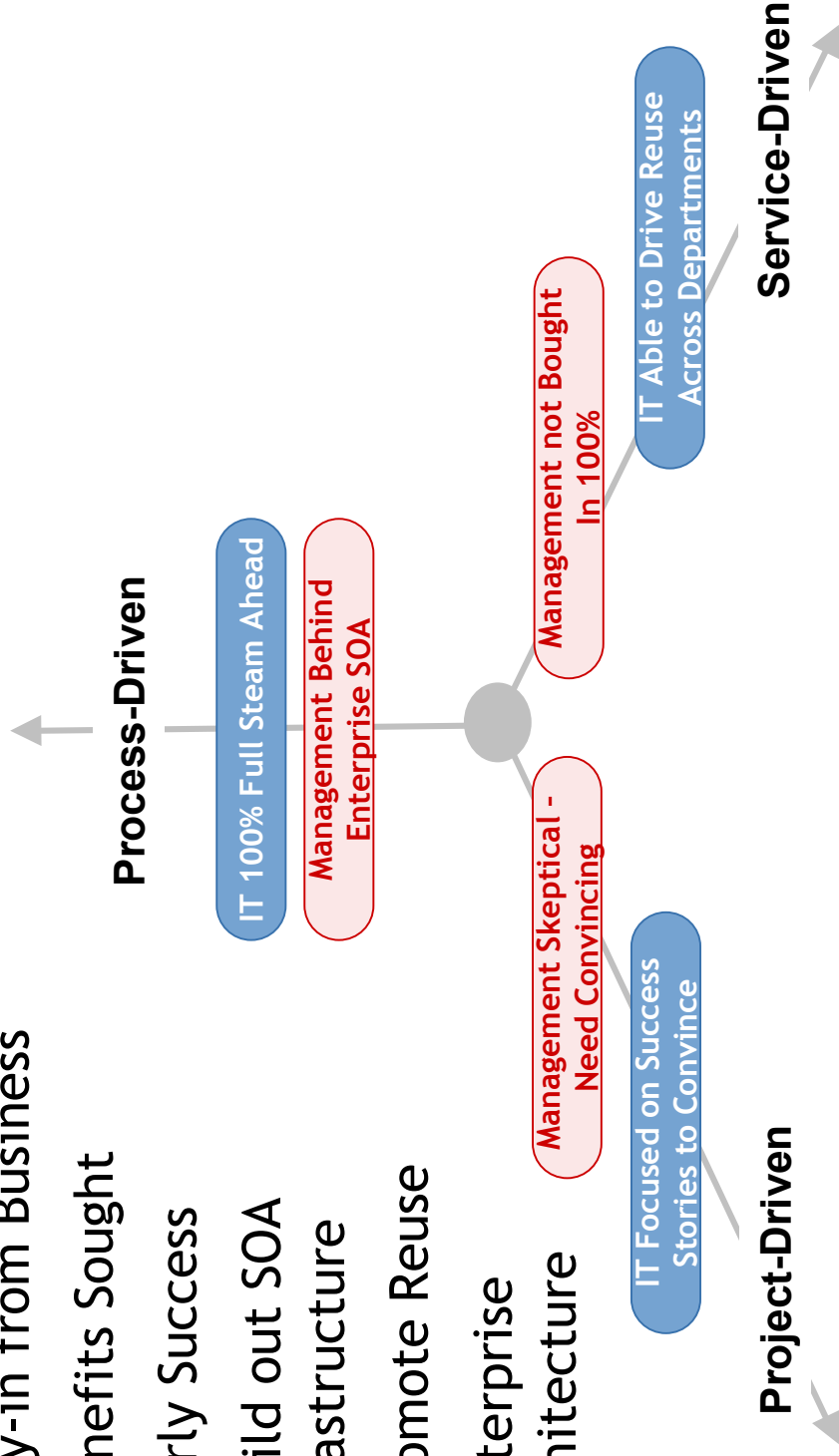


Planning for SOA



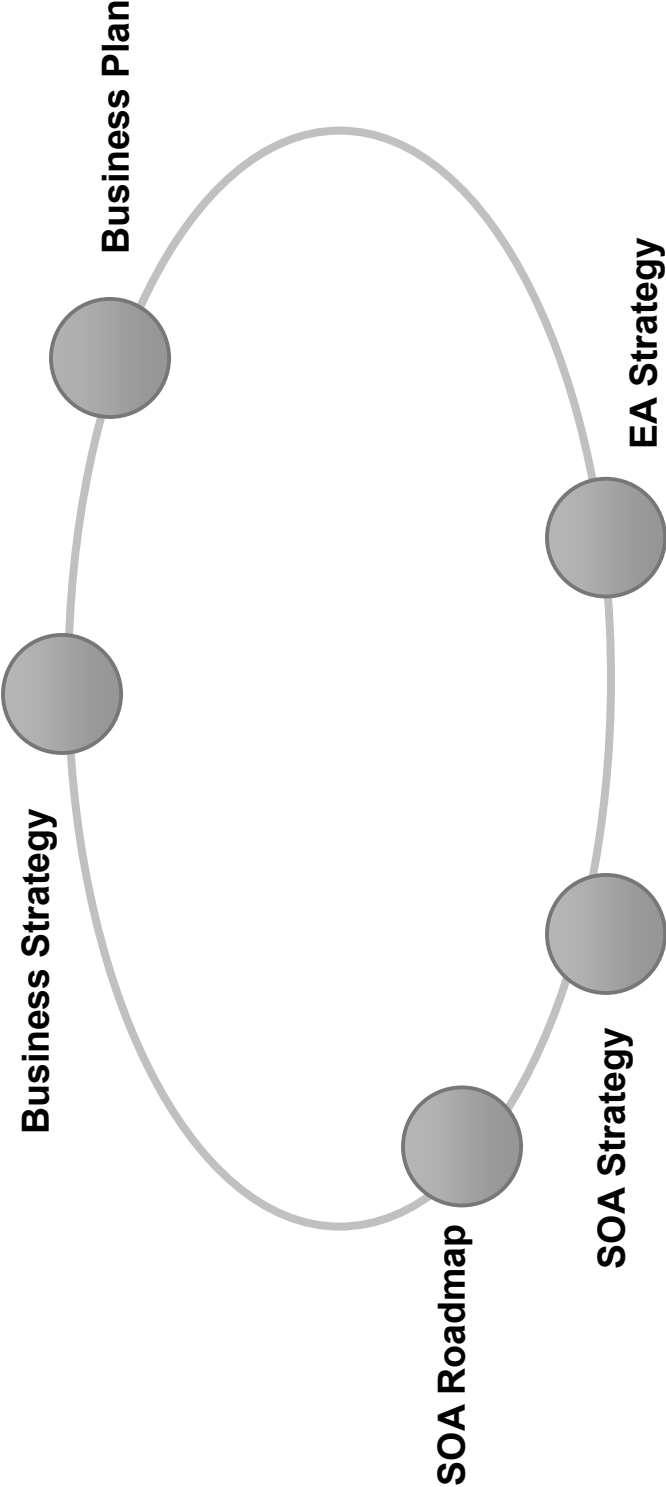
Formulate A SOA Strategy

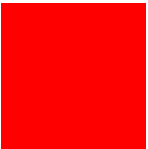
- Buy-in from Business
- Benefits Sought
- Early Success
- Build out SOA Infrastructure
- Promote Reuse
- Enterprise Architecture



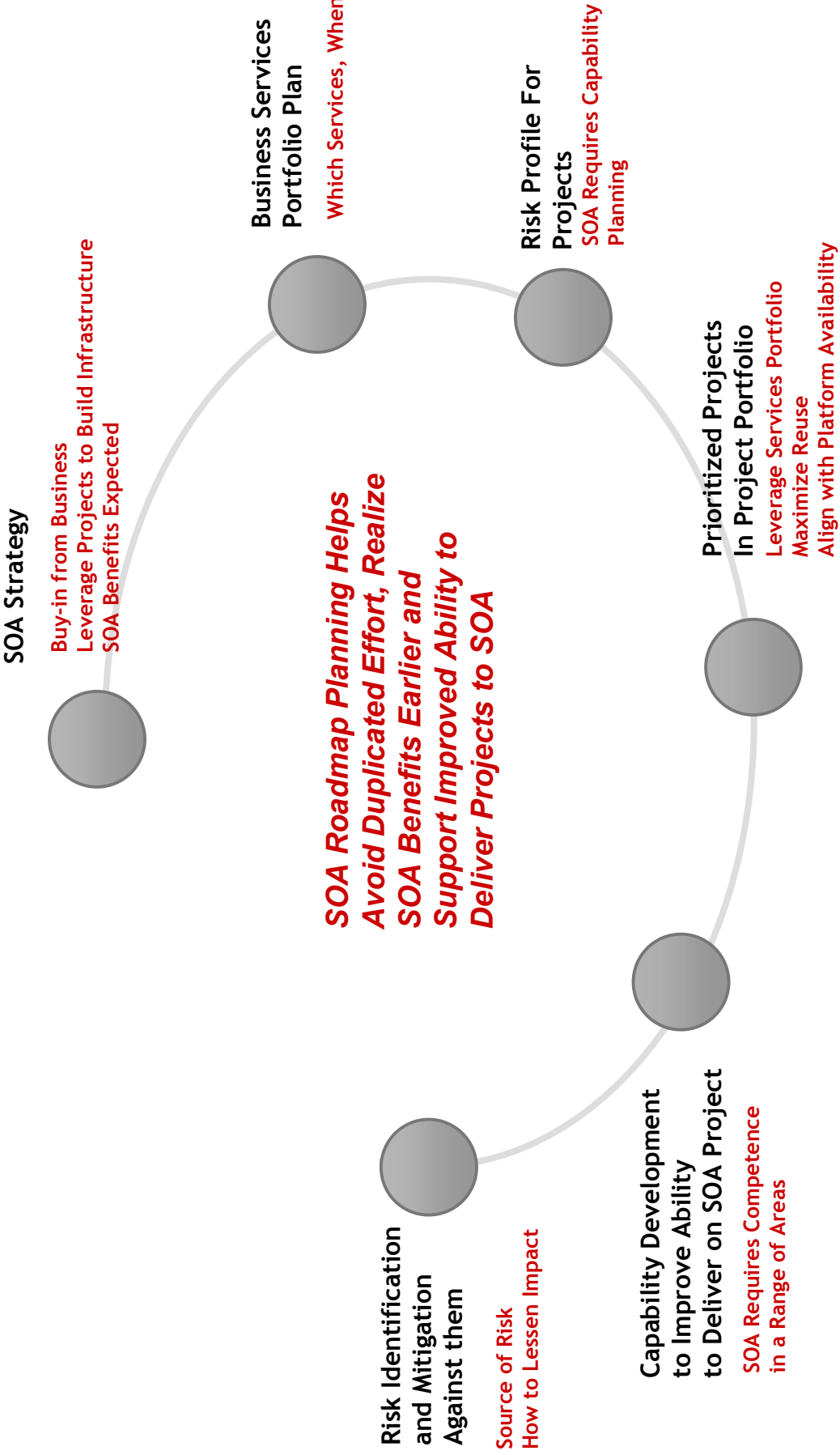


SOA Planning | SOA Roadmap



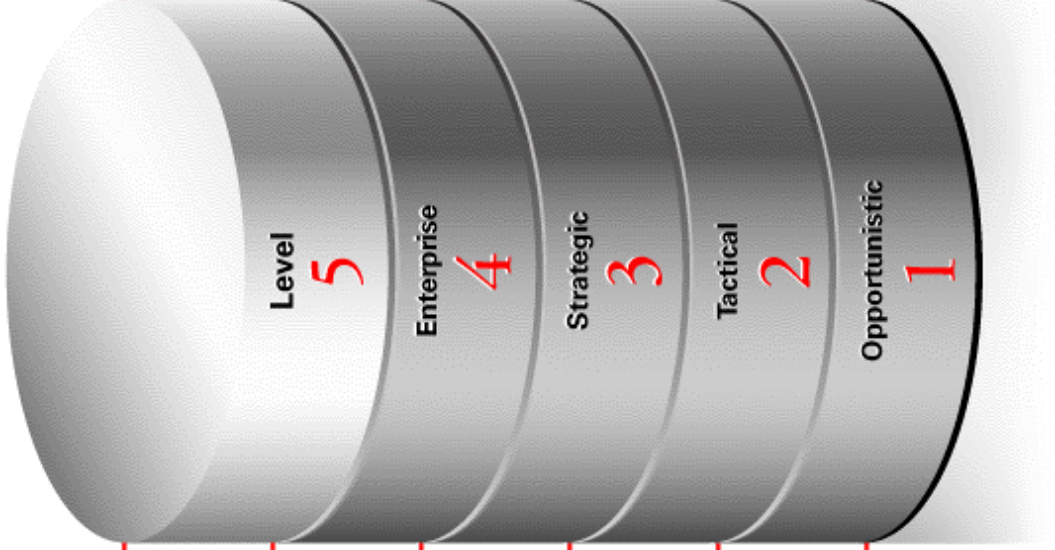


Constituents of a SOA Roadmap





LEVEL 5 SOA



STRATEGIC GOALS

SOA Industrialized - Able to Support Business Initiatives in a Timely and Cost-Effective Manner

SOA Quantitatively Managed
Monitoring Business Processes for Business Process Optimization

SOA Focused on Business Process Automation and Improvement

SOA Applied to Existing Projects Portfolio

SOA Focused on Simple Quick Win Projects

TACTICAL PLANS

- Deploy Event-Driven Technologies, such as CEP, to Enable Automated Self-Optimizing Applications

- Deploy BAM, BPEL and BPM to Baseline, Improve, Measure and Report on Processes
- Process Owners Driving Business Process Optimization
- Measure and Improve Service Reuse

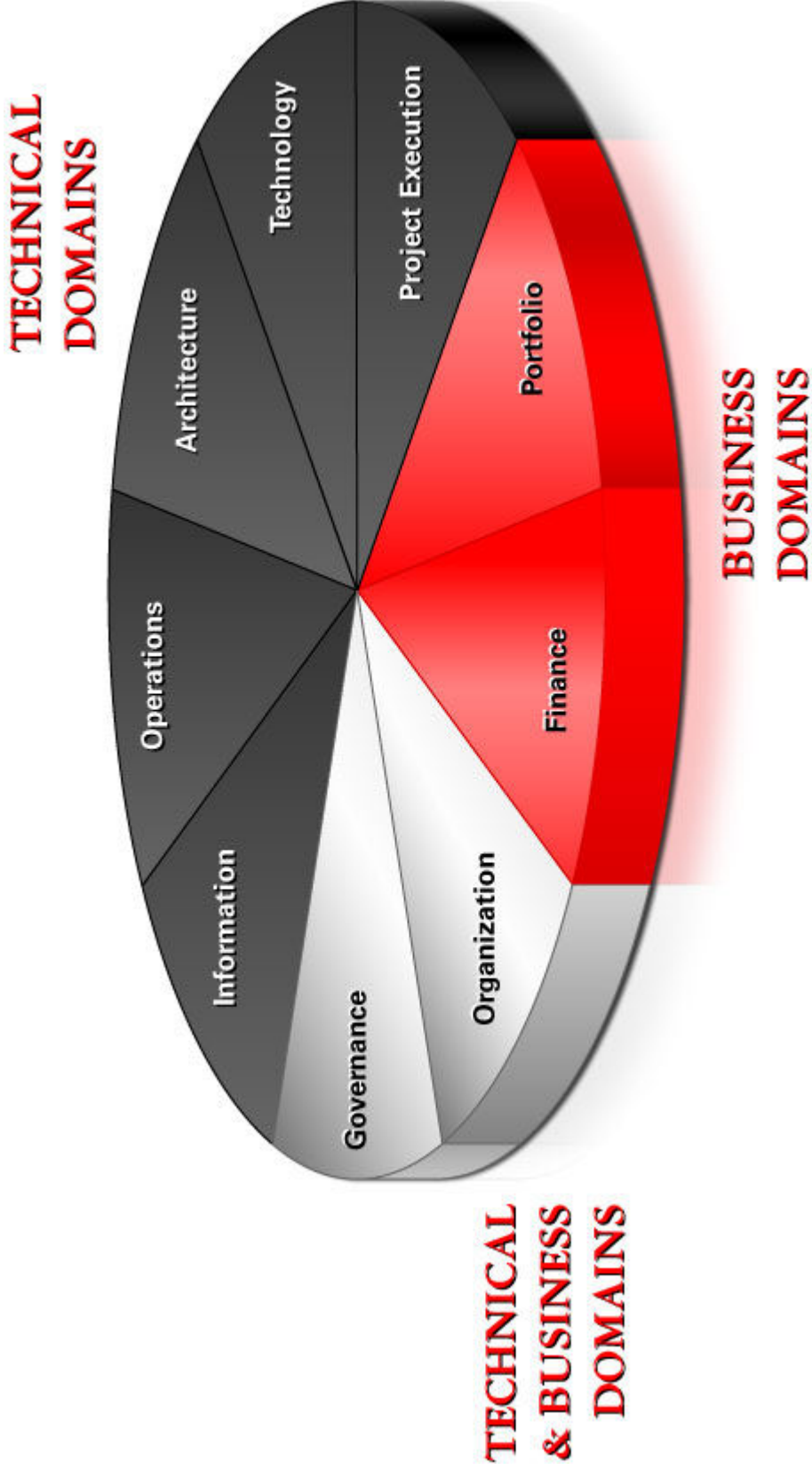
- Layer Orchestration and BPM onto Services
- Enterprise Architecture Group Starts Driving Enterprise SOA Adoption
- Initial SOA Planning

- Apply SOA to Simple Integration Projects
- Deploy Service Management
- Focus on Standards

- Get Experience Building, Deploying and Consuming Service



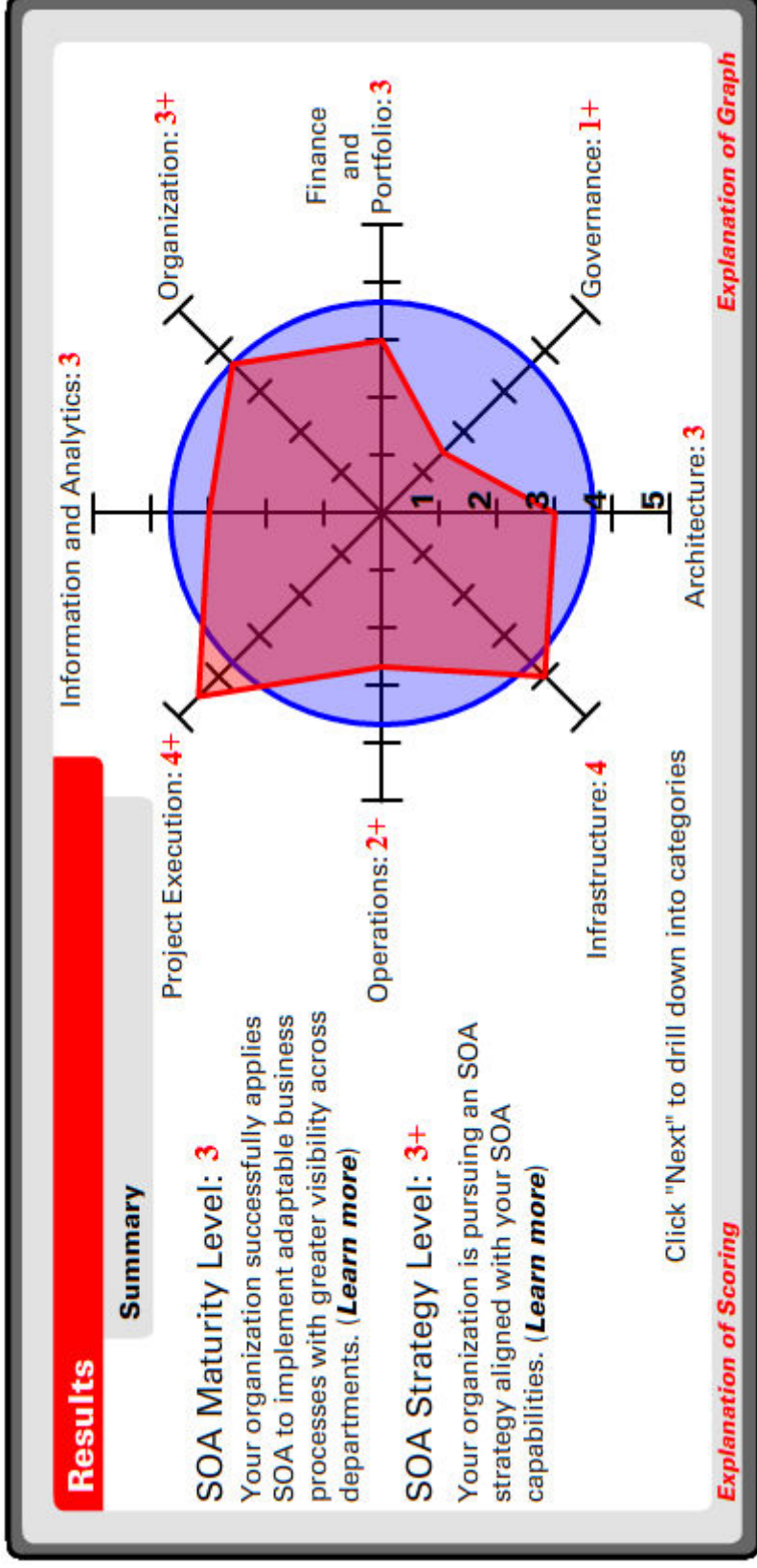
SOA Maturity Domains (Dimensions)



Cross-section through a typical slice of the Level-5 SOA maturity stack

Free Online SOA Assessment

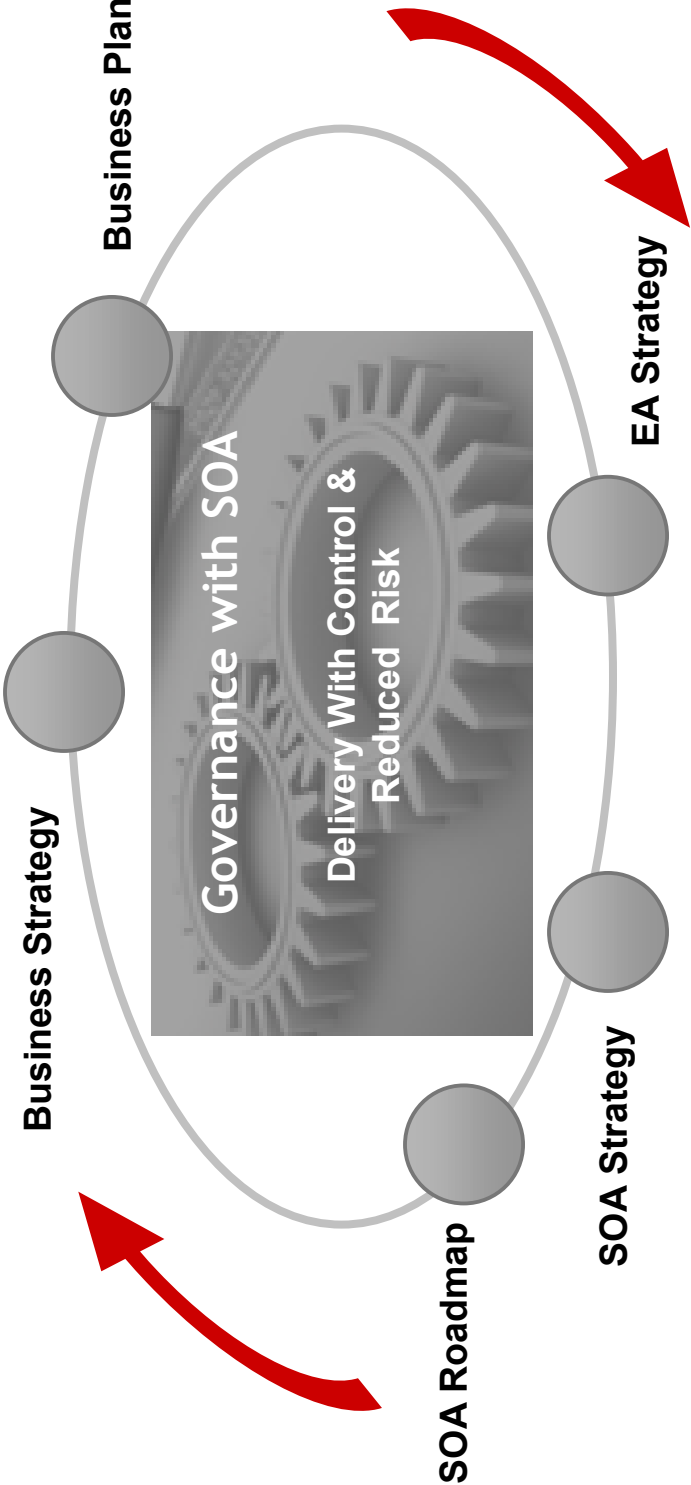
www.oracle.com/soa

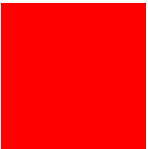


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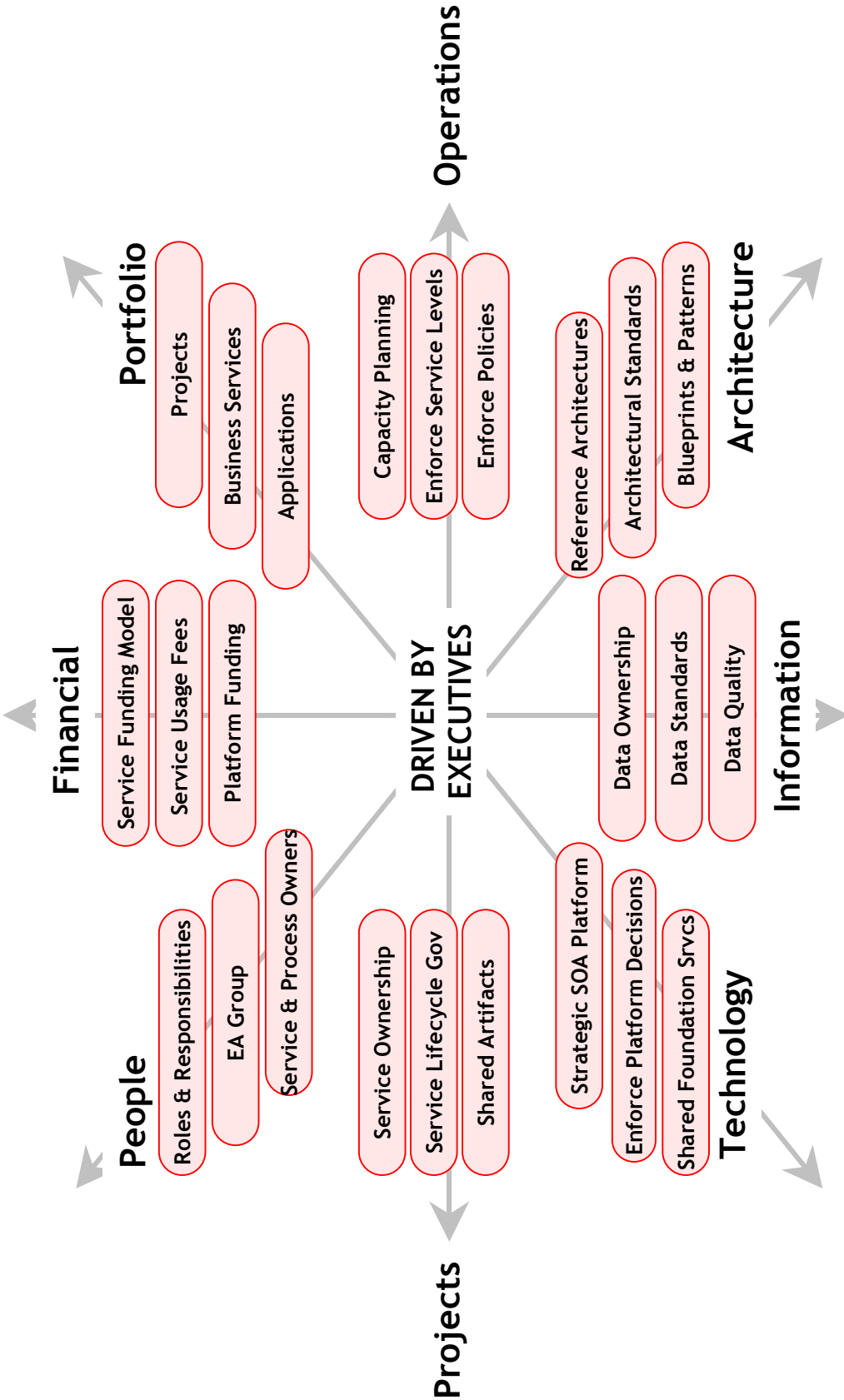


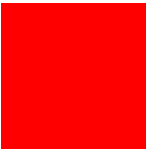
Governing the Roadmap



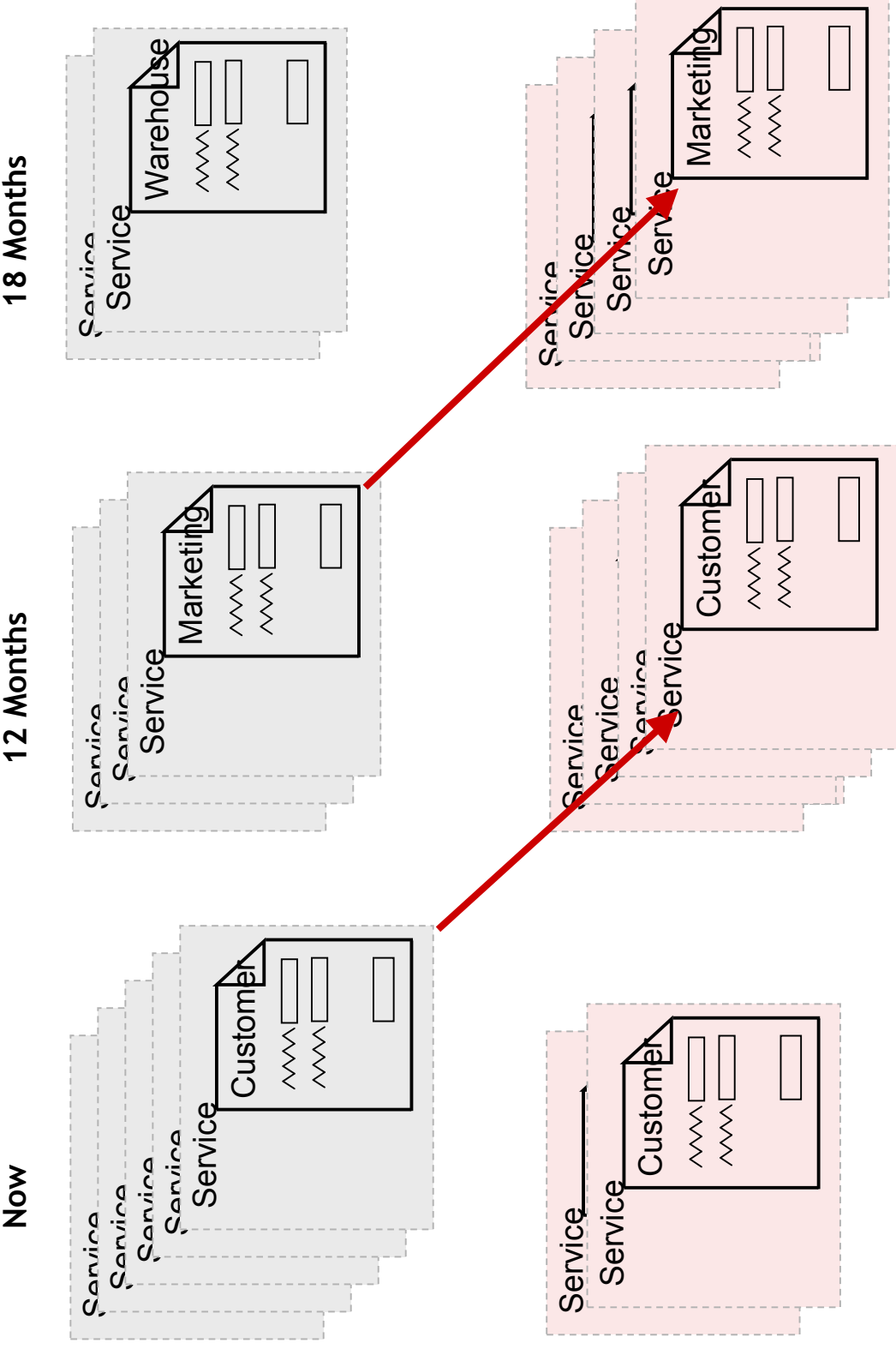


Key Leverage Points for SOA Governance



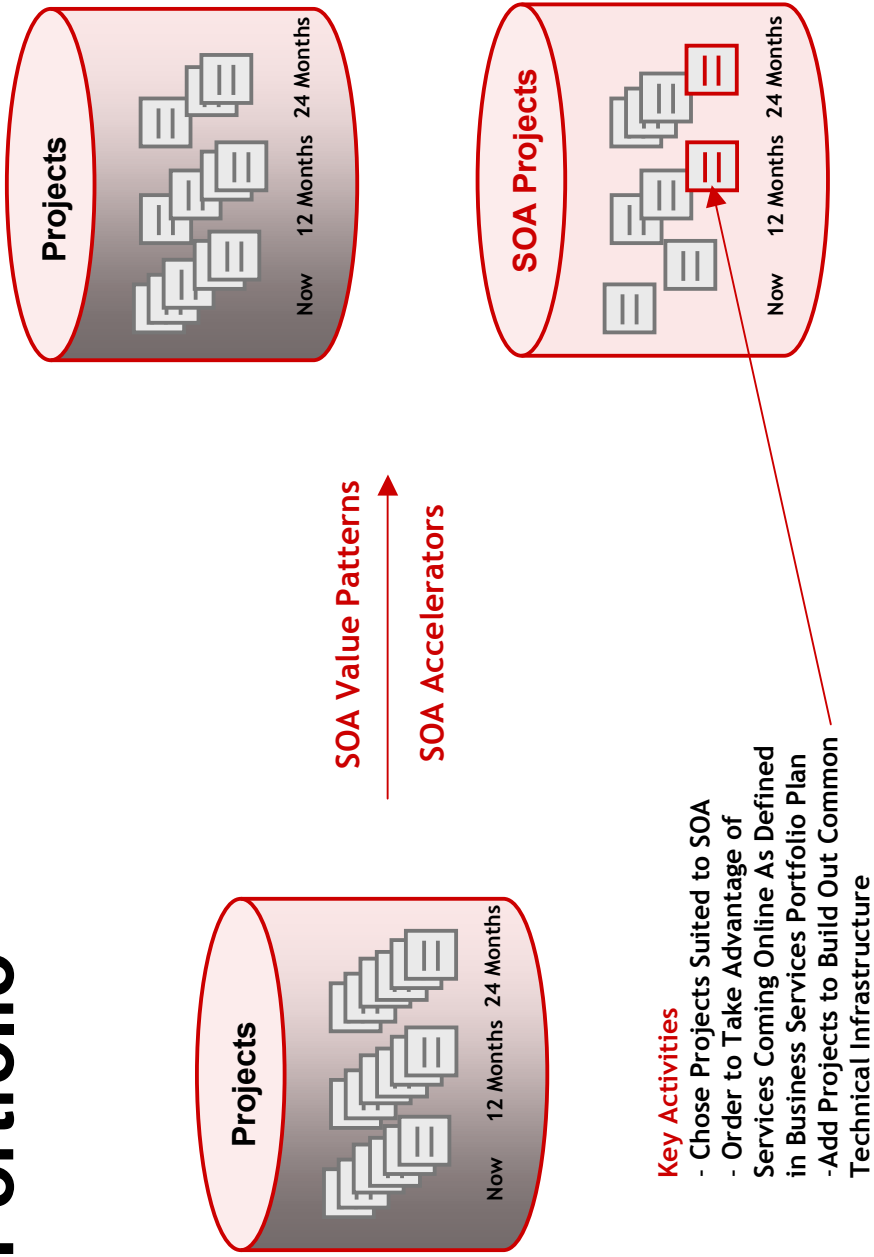


Build a Business Service Portfolio Plan





Identify Projects Suitable for SOA and Align Portfolio

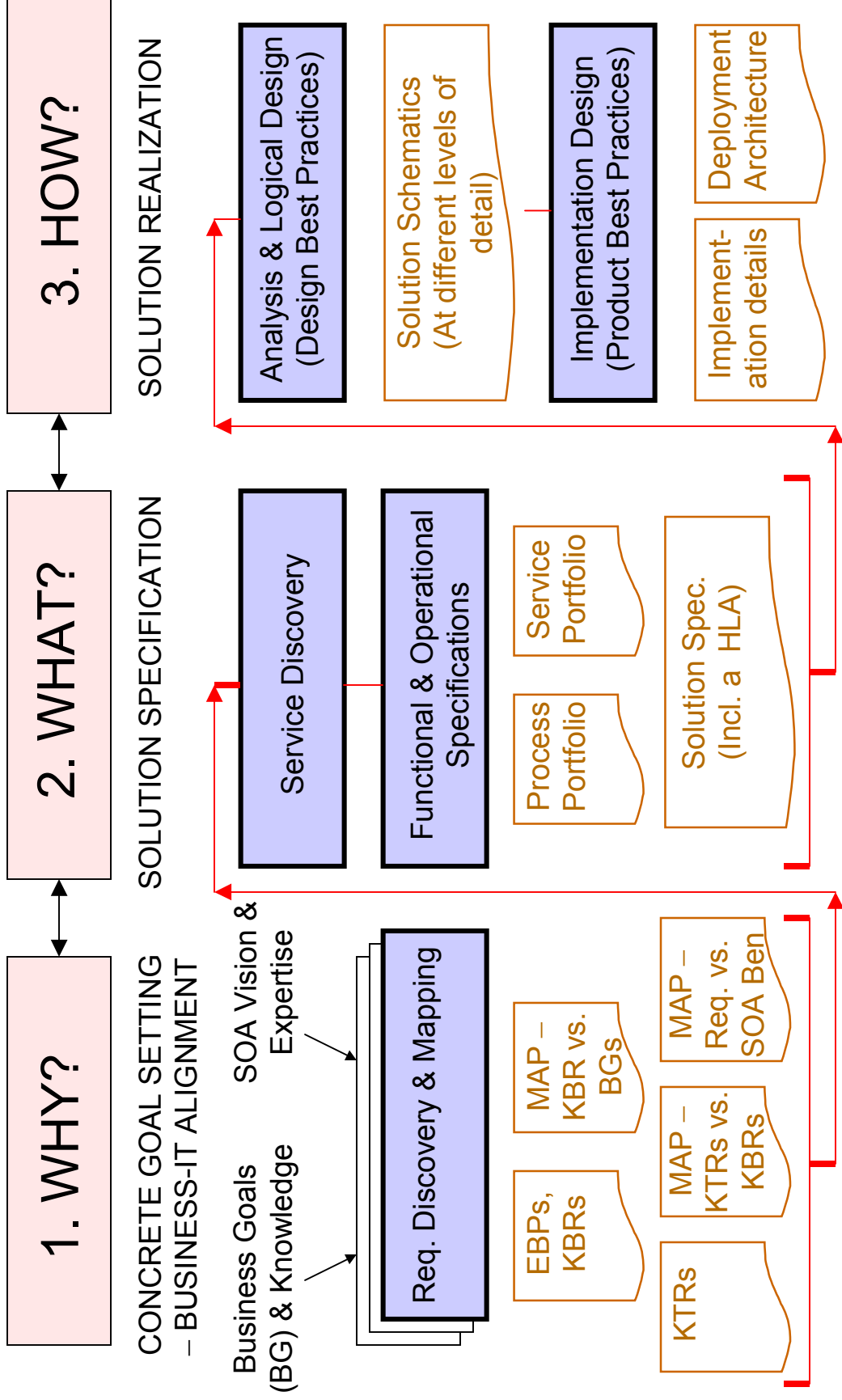





Executing SOA Project Execution



SOA Project Methodology





Analysis & Design

- Use-Case Analysis Of Business Process/Application
 - UI, Events, Activities, State-Transitions, Logic, End-points
- Service Identification and Specification
 - Contract-Based Development
- Service Classification
- Operational Requirements
 - Performance, Availability, Security, Monitoring
- Service Acquisition Strategies
- Service Composition/Orchestration
- Logical and Physical Design
 - Blue-prints For Service-Oriented Application Building
 - Design Patterns (Product Agnostic)
 - Product Mapping To Solution Components
 - Implementation Patterns (Product Best Practices)



Implementation

- Product Usage Best Practices
- Testing (Unit/System/Integration) Guidance
- Deployment Patterns Best Practices Capturing:
 - HA
 - Scalability
 - Security
- Design-Time and Run-Time Versioning
- Run-Time Governance/ Operations
- Run-time Application Management Best Practices
- Solution Life-Cycle Management
 - Upgrades
 - Retirements

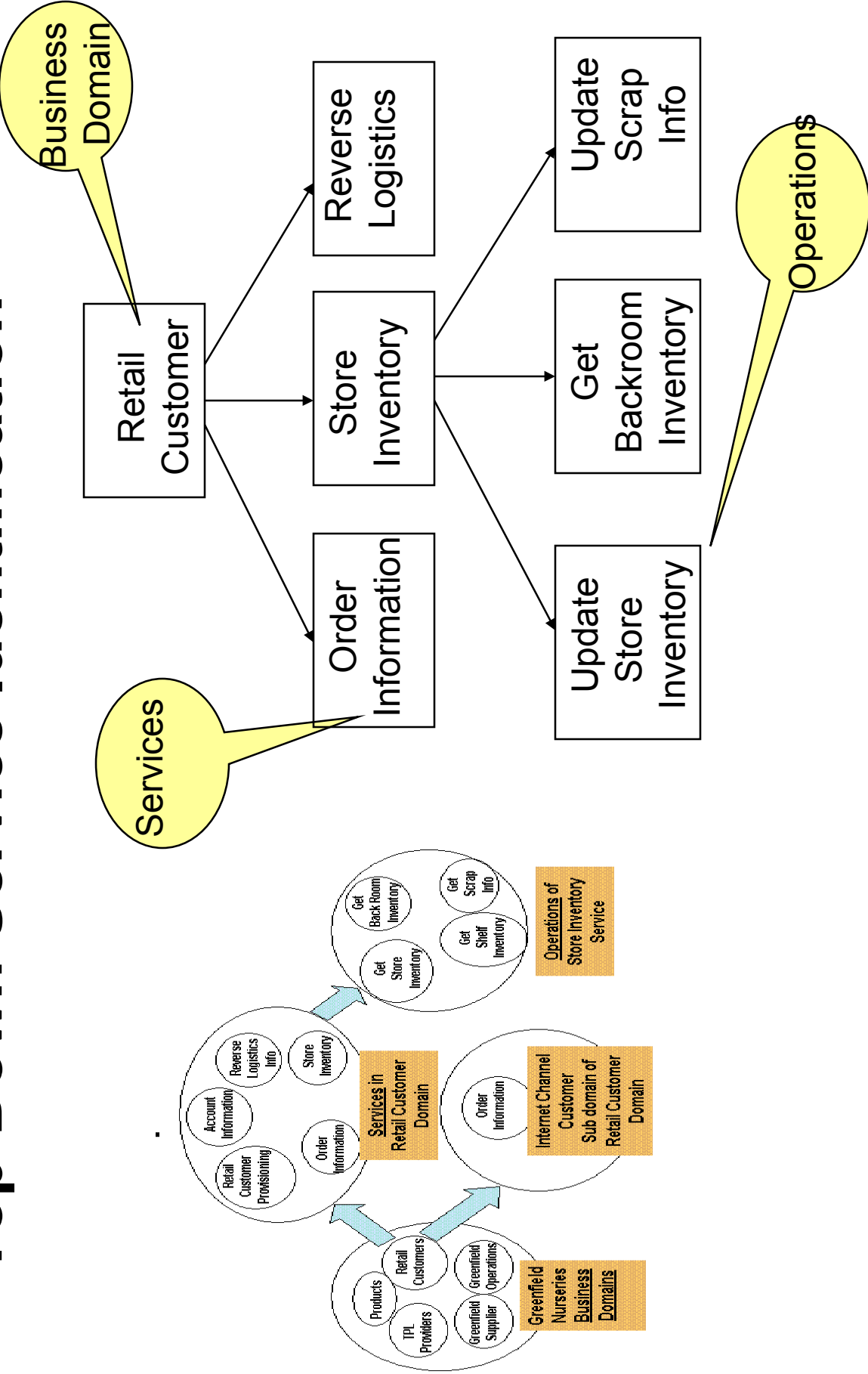


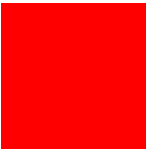
Service Identification & Realization



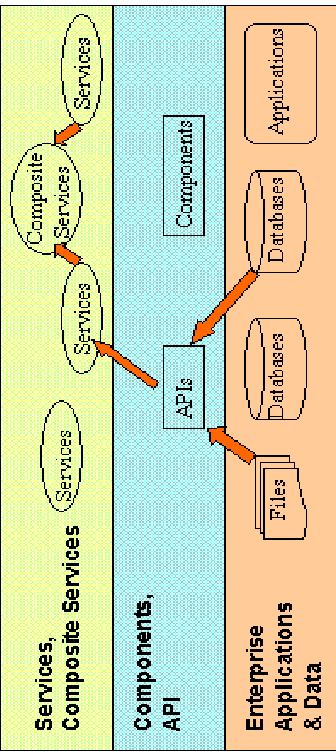
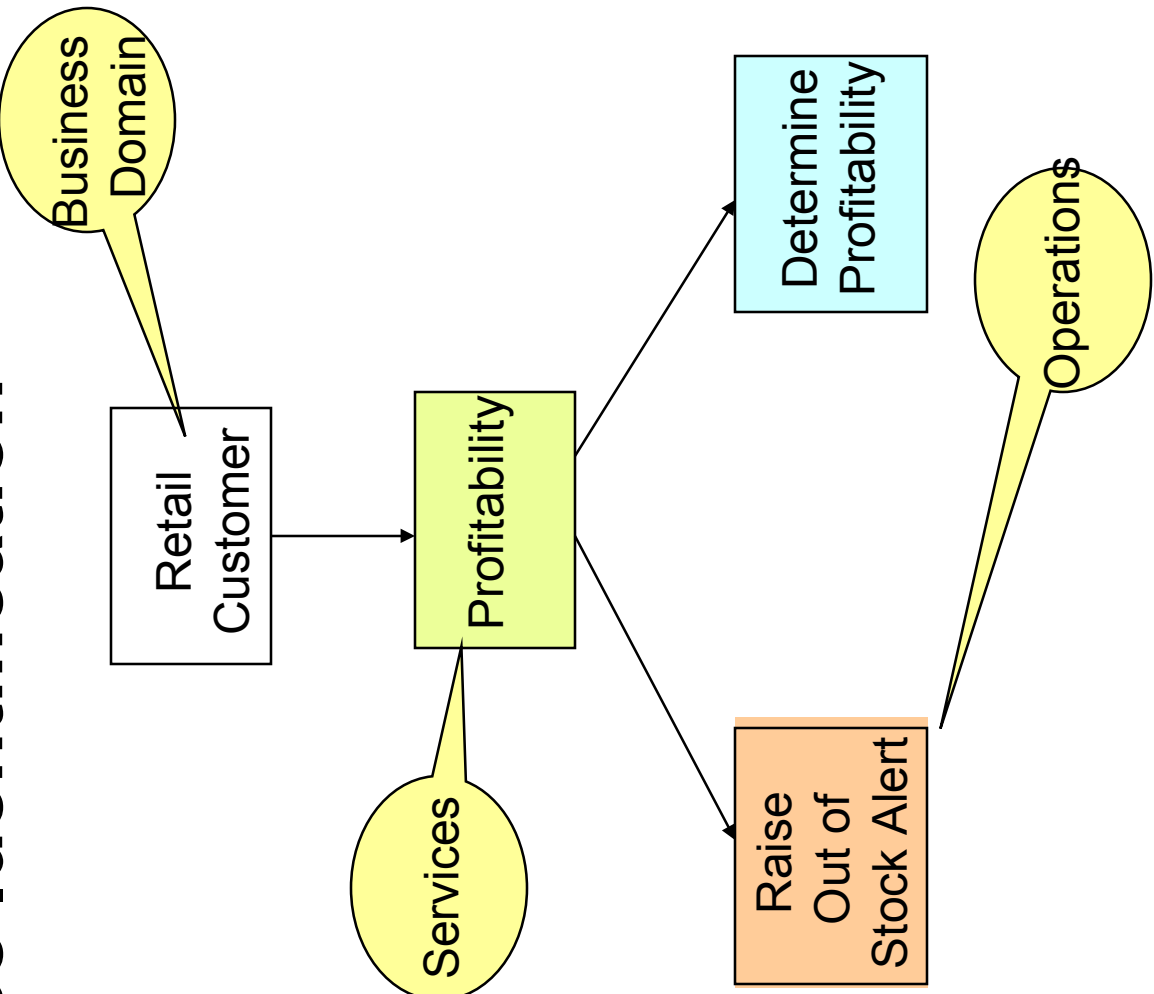


Top-Down Service Identification



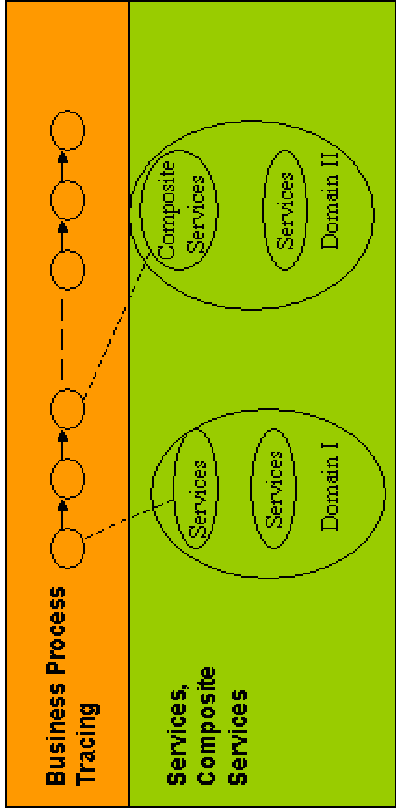
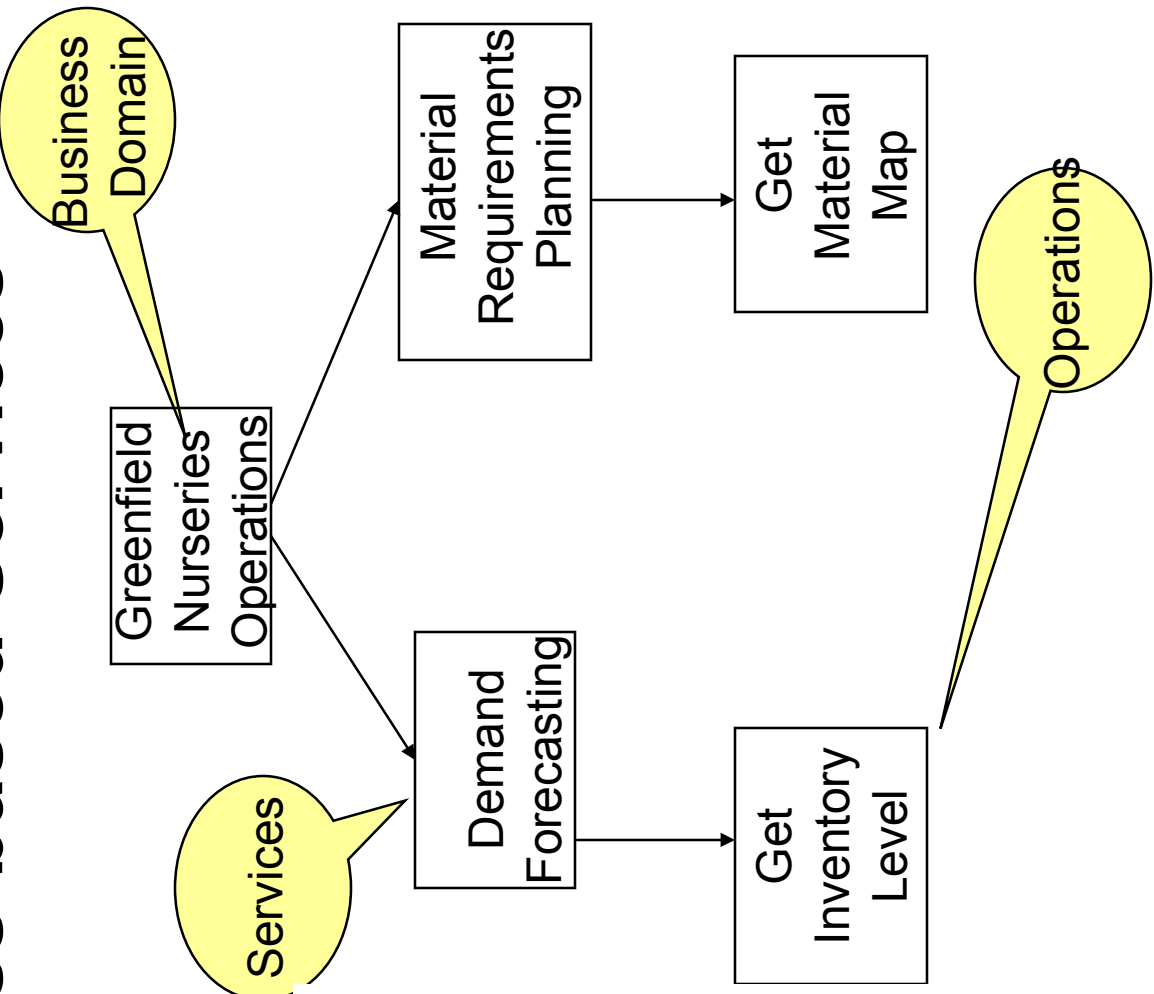


Bottom Up Service Identification



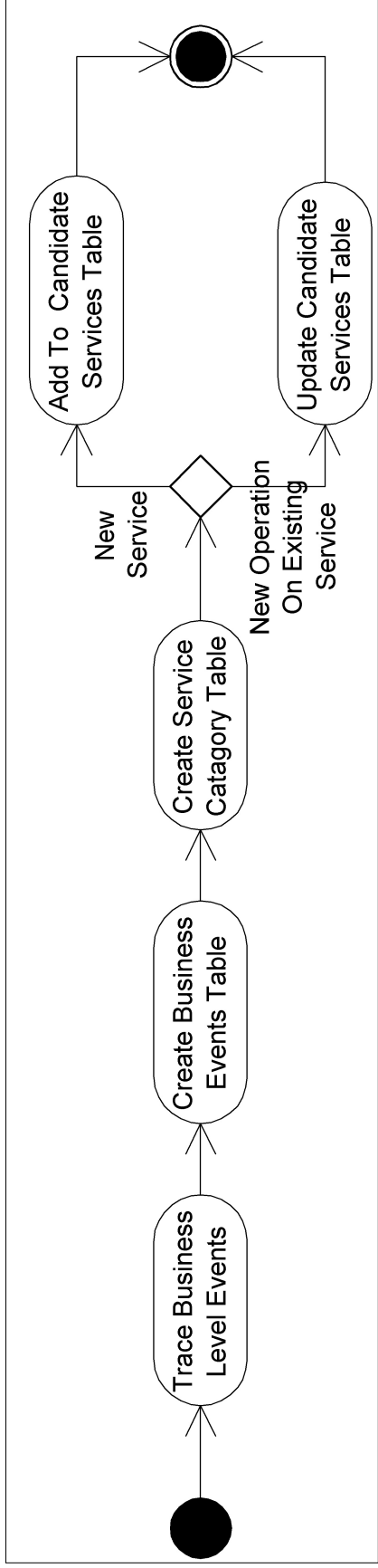


Identifying process-based Services





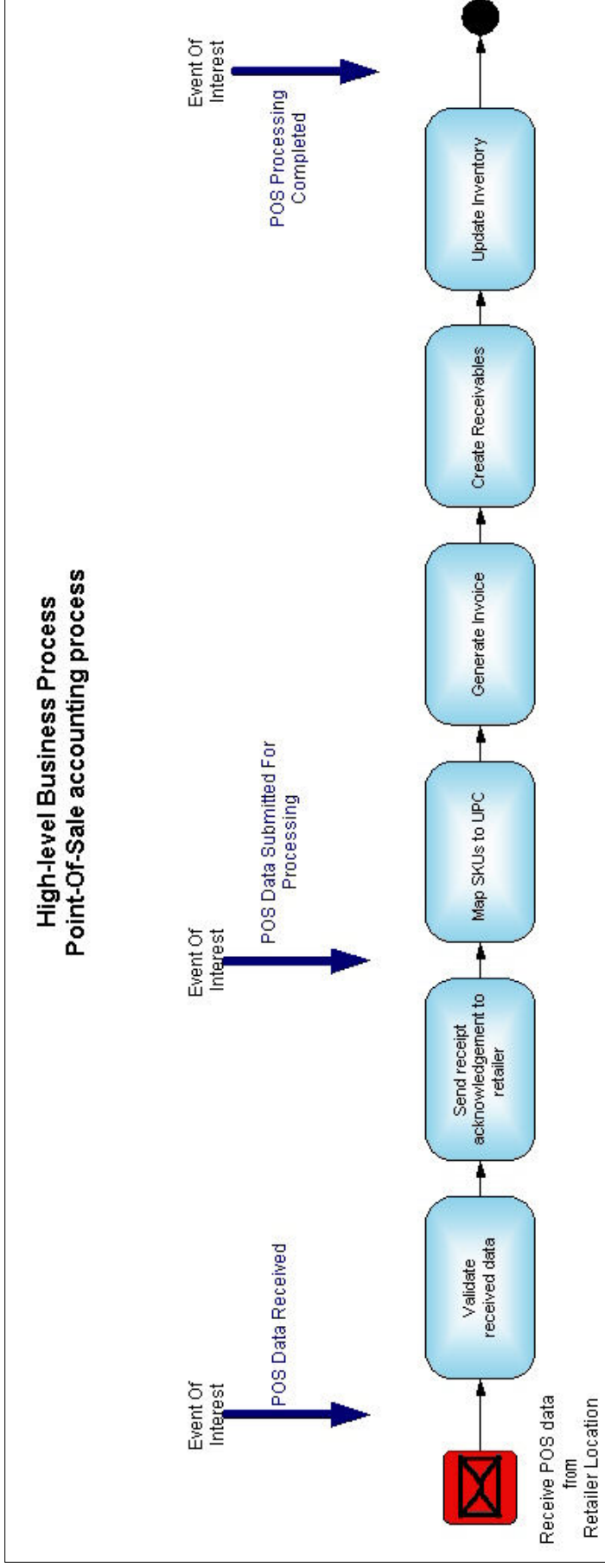
Identifying Process-based Services with Business Process Tracing





Business Process Tracing

Point-of-Sale Process Example



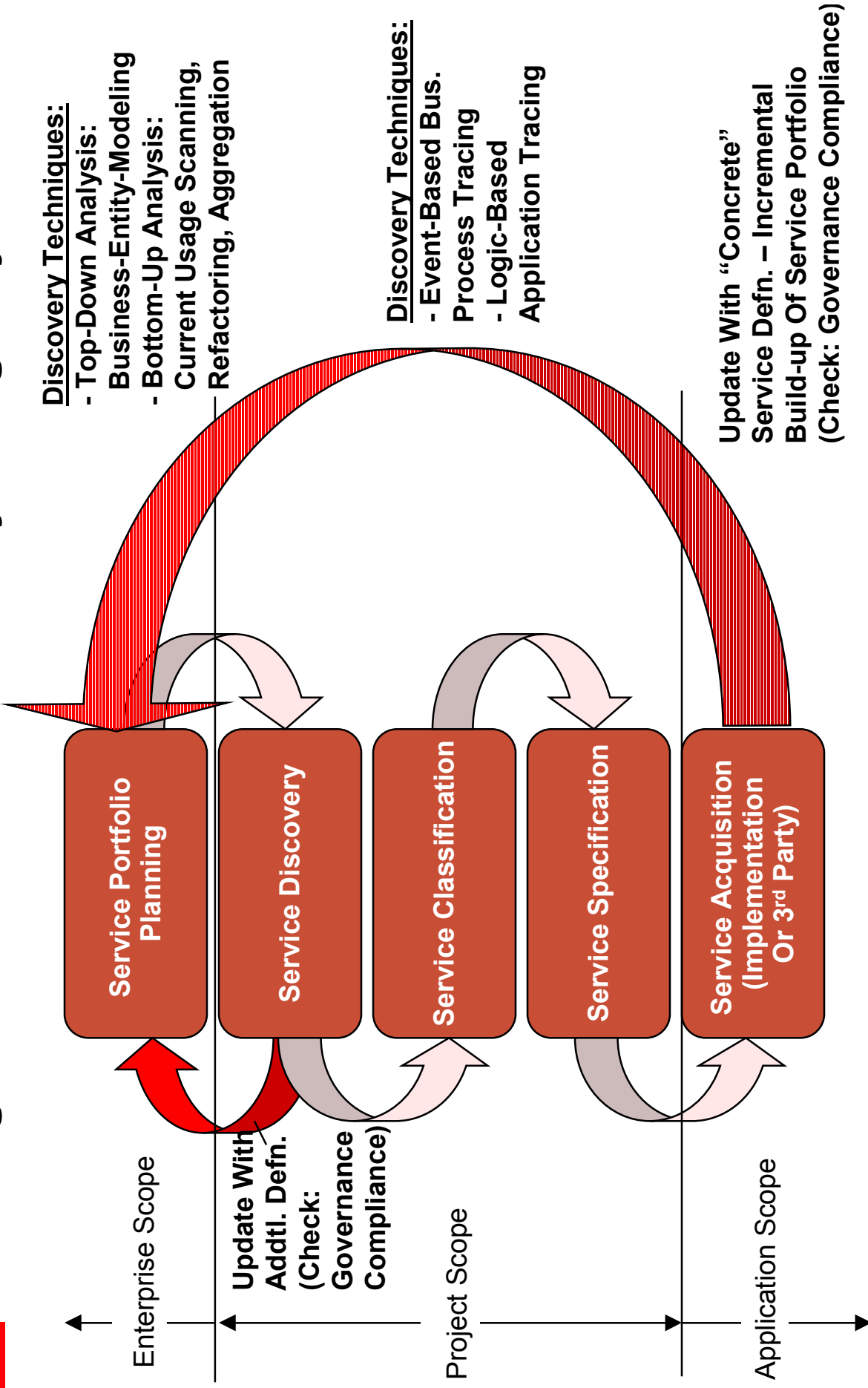
Business Process Tracing

Candidate Services Table

Candidate Services Table For SBT Project

Service	Operations	Description
Accounts Receivables	1. Create new Receivables	Accounts receivables service
Transformation	1. Transform PO	Transformation Service
EDI Data Validation	1. Validate EDI data	EDI validation service
Inventory Management	1. Inventory update 2. Create location	Inventory service
Invoice Calculation	1. Generate invoice	Invoice calculation service
B2B Processing	1. Acknowledge Receipt	B2B services
Store Location Management	1. Create registration request	Store location management service
Workflow	1. Notify request denial 2. Notify completion	Workflow services
Customer Management	1. Register new location	Customer management services
B2B Profile Management	1. Add new profile	B2B trading partner profile management services
Warehouse	1. Check for available inventory 2. Determine optimal warehouse location 3. Ship to store location	Warehouse services
Supplier	1. Initiate procurement	

Building Shareable SOA Assets By Doing Projects

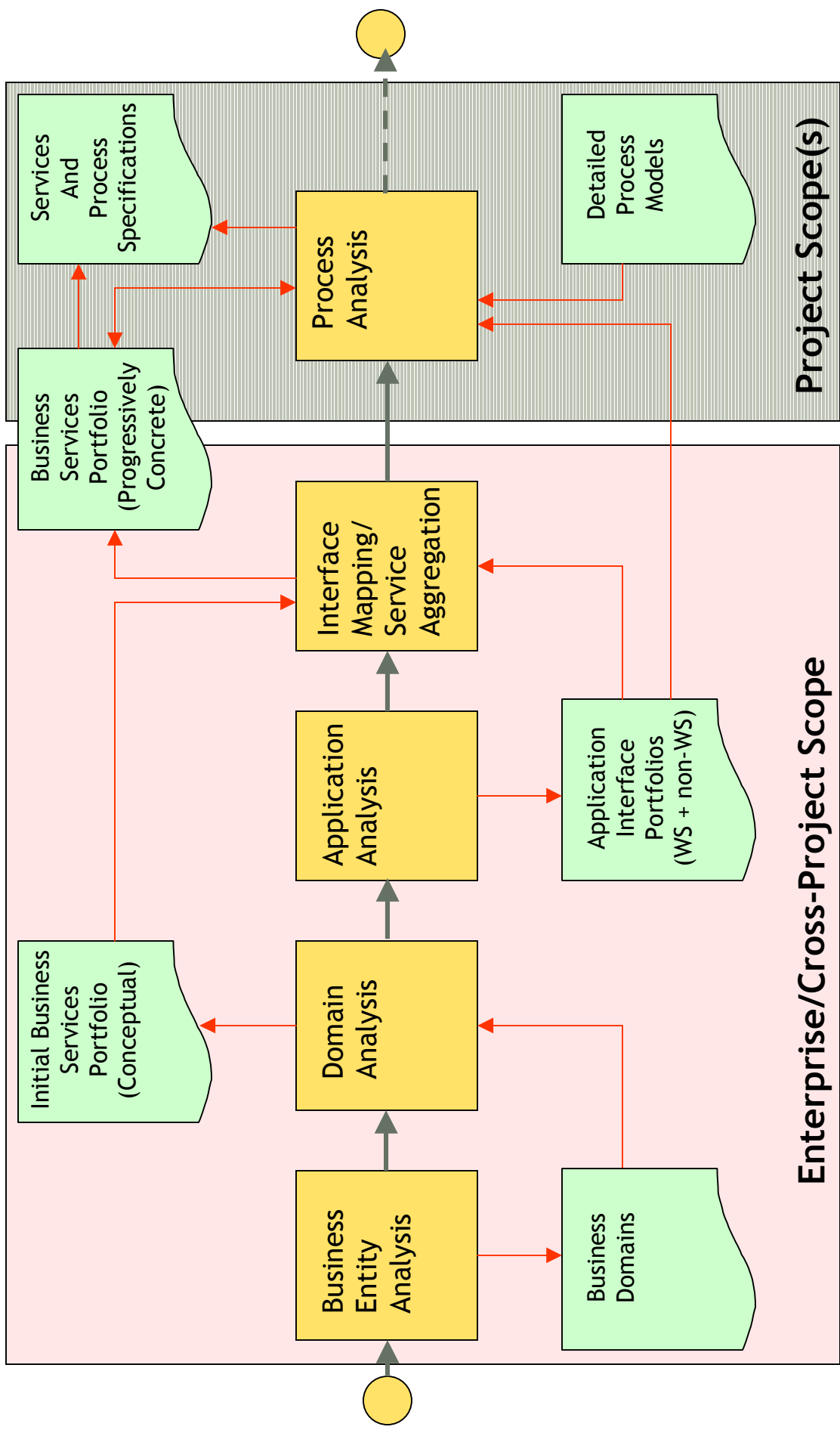


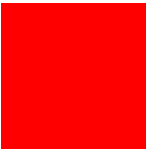


SOA With Apps and AIA

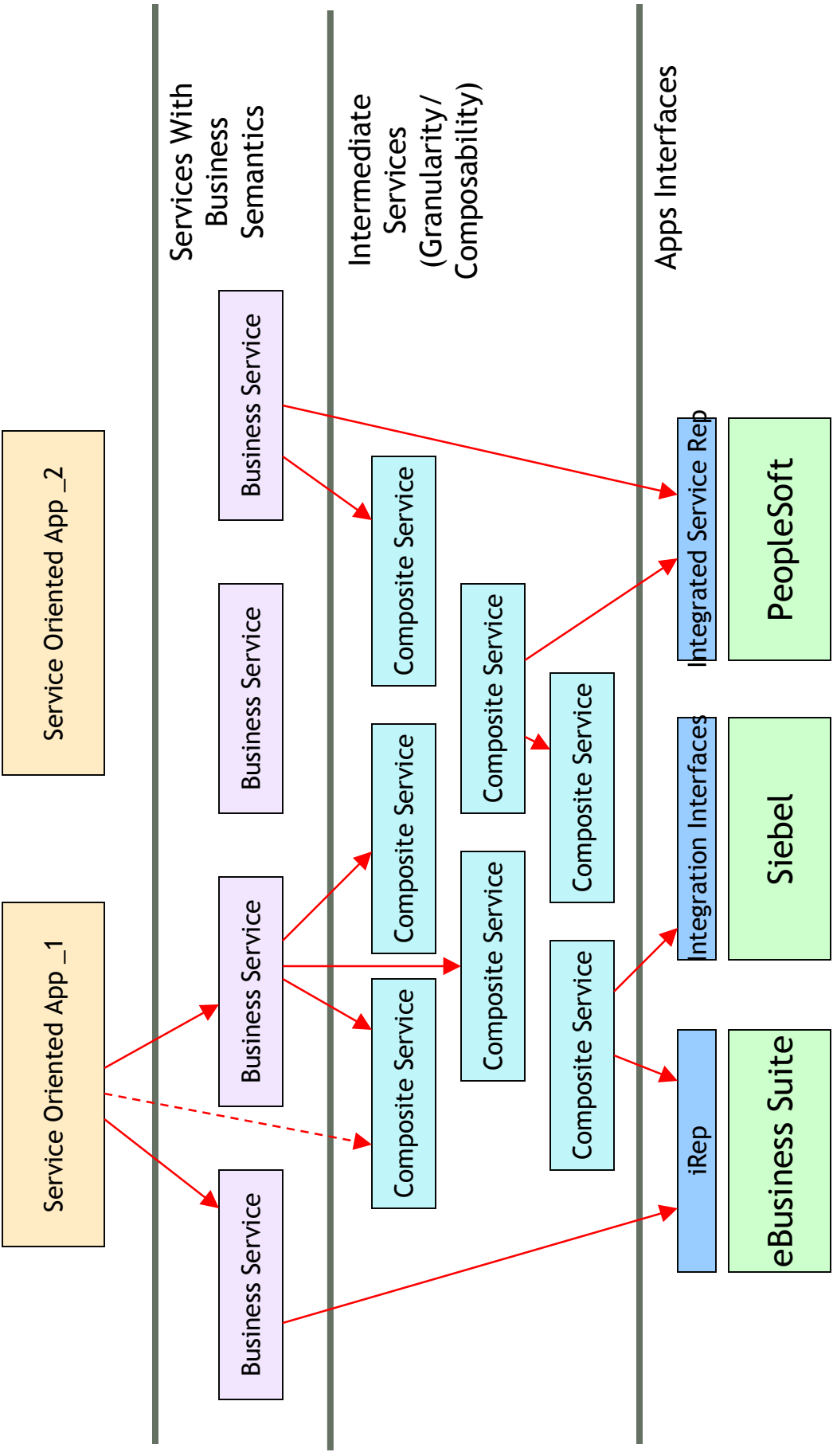


Service Portfolio Building With Apps

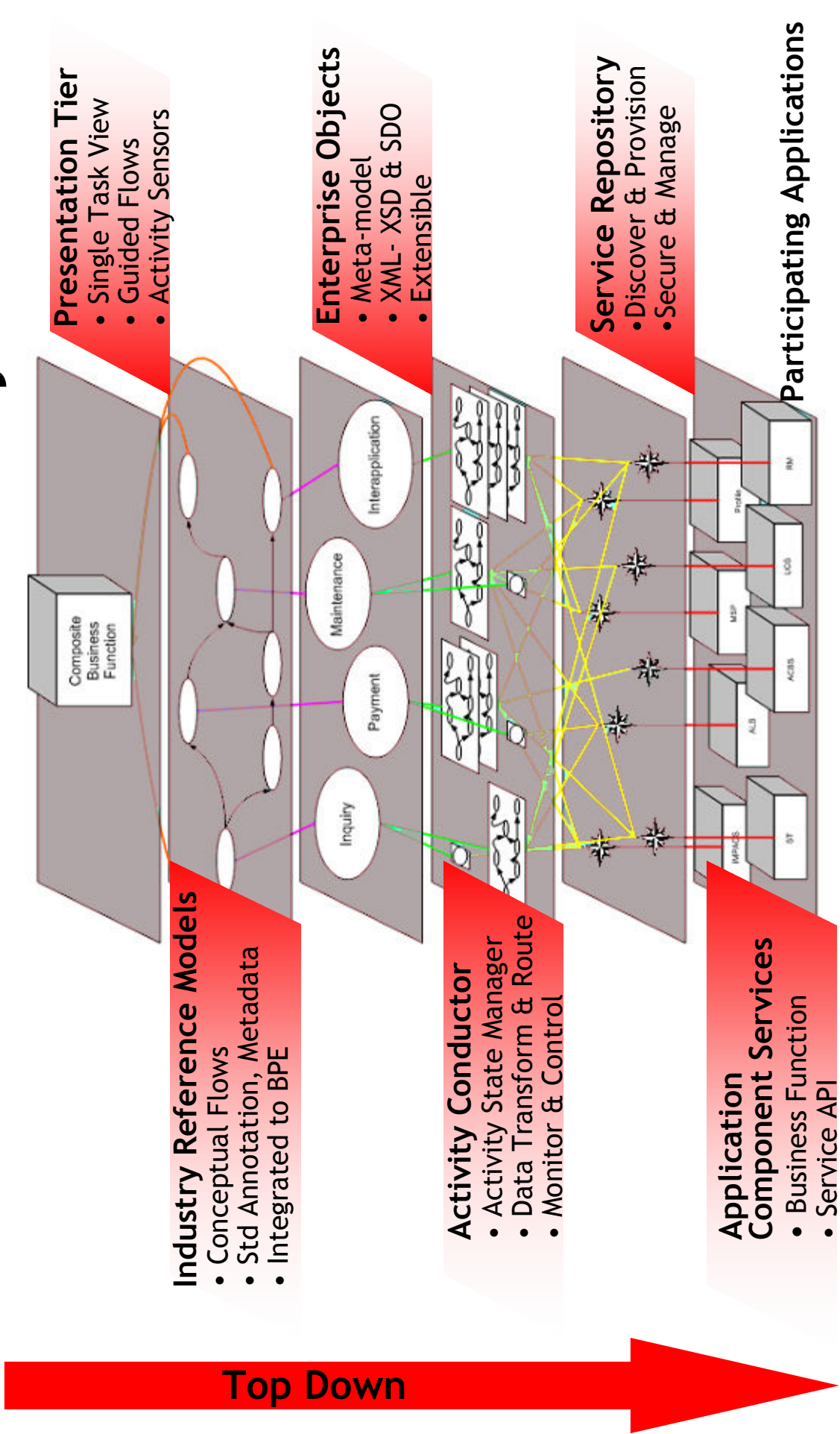




Business Services From Apps Interfaces

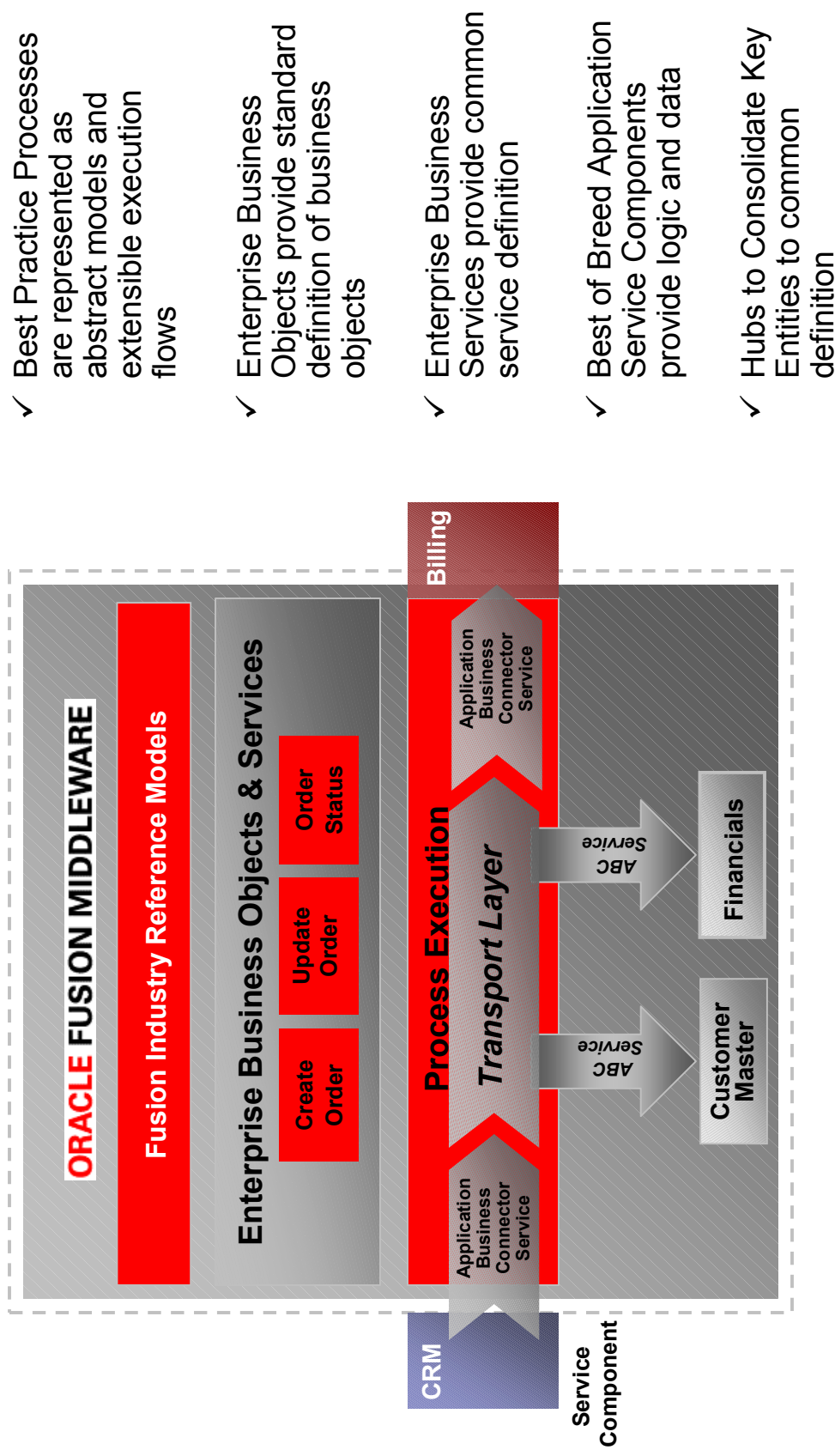


Service Oriented Functional Layers



Oracle Application Integration Architecture

An Adaptive Integration Approach



- ✓ Best Practice Processes are represented as abstract models and extensible execution flows

- ✓ Enterprise Business Objects provide standard definition of business objects

- ✓ Enterprise Business Services provide common service definition

- ✓ Best of Breed Application Service Components provide logic and data

- ✓ Hubs to Consolidate Key Entities to common definition



Summary





Summary

- Oracle has a product-agnostic methodology to drive customer success with SOA
- Oracle's SOA methodology is focused at simplifying SOA adoption at project and enterprise levels
- Oracle's methodology is aligned with SOA adoption of its Apps-family customers
- It's applicable for project planning and during project execution
- It promotes an incremental SOA adoption

ORACLE SOA PROJECT METHODOLOGY WORKSHOP

Justification	Assessment	Planning	Design	Implementation
<ul style="list-style-type: none"> - Building SOA Business Case - Business Alignment Matrix - SOA Savings Calculator Funding Model 	<ul style="list-style-type: none"> - Assessing Enterprise with Respect to SOA Success Criteria using Level 5 SOA Maturity Model - Measure & Monitor Progress with Enterprise- 	<ul style="list-style-type: none"> - Selecting Suitable Projects for SOA - Using an ROI Calculator for Planning - Service Funding Model - Operational Model for 	<ul style="list-style-type: none"> - Service Identification - Service Specification - Service Classification - Service Acquisition - Capturing Operational Requirements 	<ul style="list-style-type: none"> - Blueprints - Best Practices - Reference Architectures - Architectural Patterns - Deployment Patterns - Capturing Best Practices

SOA PROJECT METHODOLOGY WORKSHOP (1 or 2 DAYS)

Ask your Oracle Rep for Details

- Planning for Governance with SOA



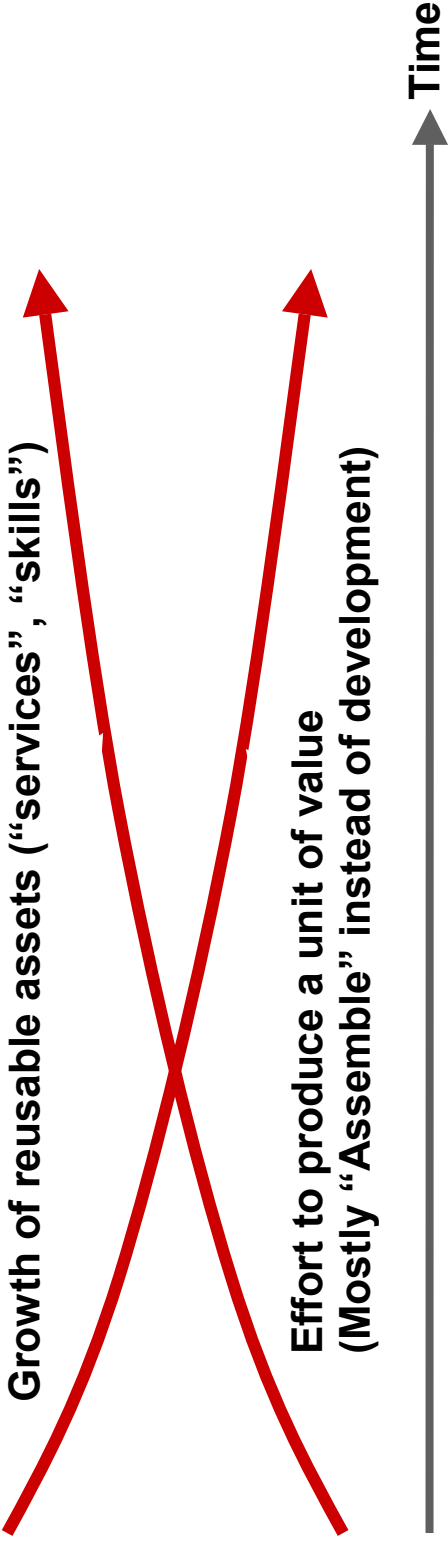
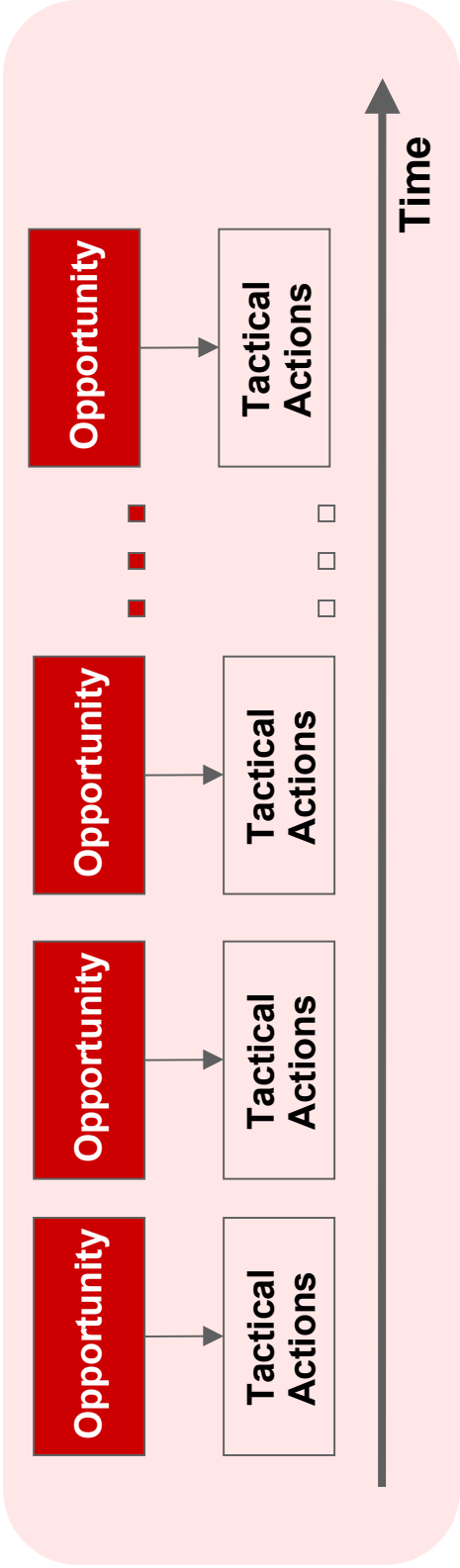
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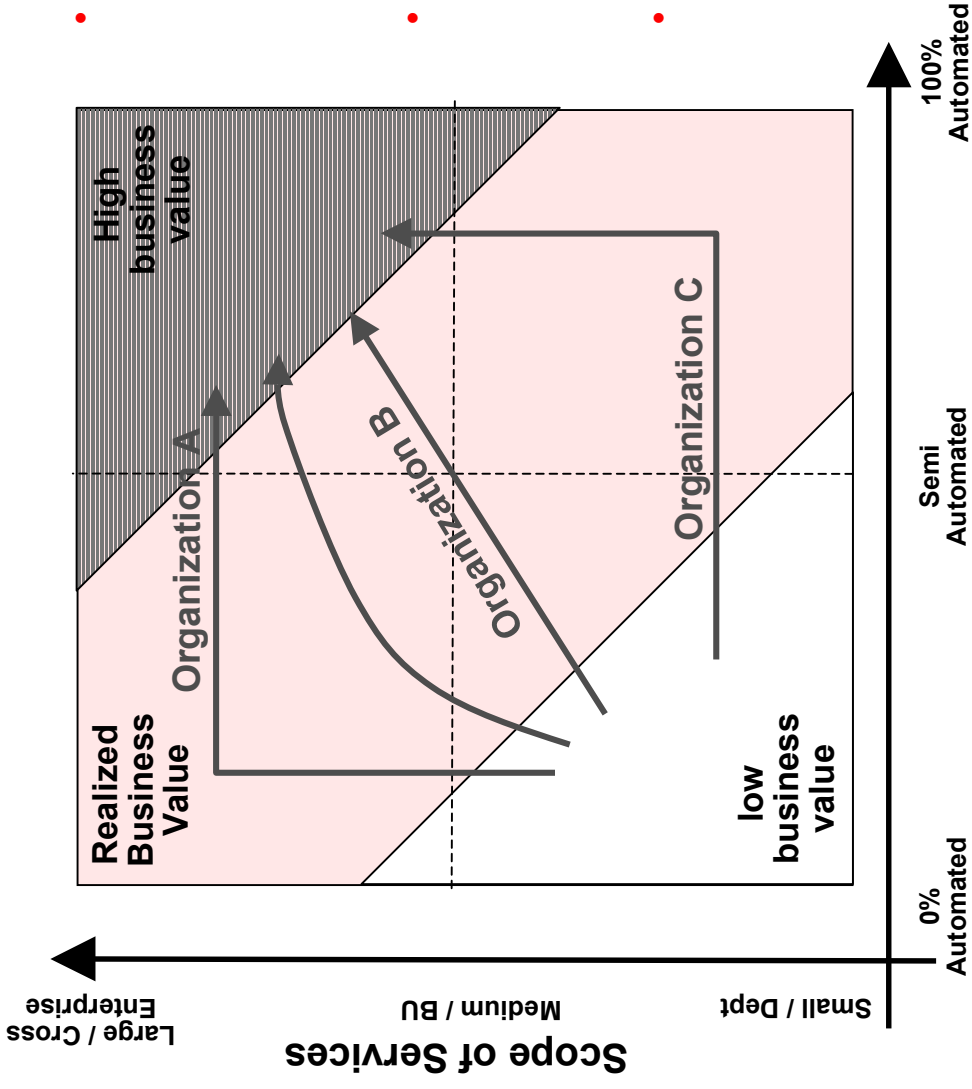
Backup Slides



Plan Strategically And Act Tactically With SOA

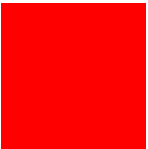


Starting down the path...



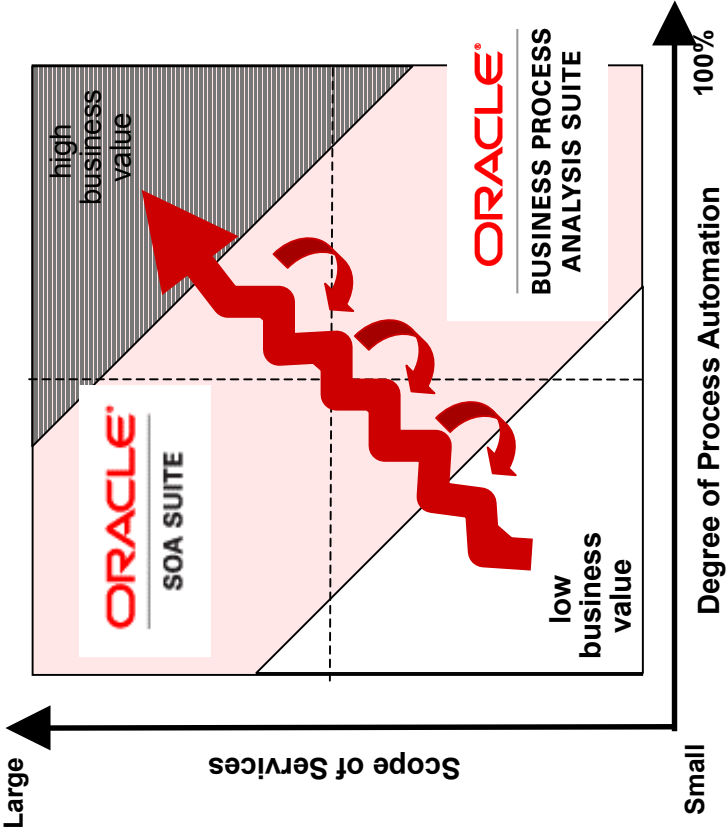
- Organization A (“Services Focus”):**
 Focused on establishing a comprehensive services foundation expanding from a department to the entire enterprise architecture
- Organization B (“Iterative Processes/Services Focus”):**
 Focused on a mix of business process focus and services focus
- Organization C (“Processes Focus”):**
 Focused on purely on creating business processes that may span from a department to the entire enterprise with a small services footprint

Degree of process automation



Recommended approach: The “Iterative Processes/Services Focus”

The “iterative processes/services focus”



- Early focus will be on a core process. SOA is driven by one or many core business processes with high ROI (example order to cash)
- Simple processes may be chosen first so that underlying services layer will also remain simple
- Evolution of the services layer will be “in concert” with the evolution of the processes layer. As processes become more complex, external and/or requires more reliability, the service layer will likewise evolve
- Lessons learned on each increment of the business processes and services enablement will be used to improve the next iteration

Source: Oracle and Accenture

Modeling \leftrightarrow Implementation

Seamless collaboration while using best tools for respective
Business Analyst **Integration Developer**

