



Service Oriented Architecture

SOA in Action

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SOA on your terms and our expertise

ON DEMAND BUSINESS™

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On the Minds of Top Executives Worldwide

Key Focus:

Revenue Growth, Profitability, Asset Utilization with Cost Containment

Key Challenges:

Process Efficiency, Meeting Customer Expectations, Employee Productivity, Security & Privacy



CIO Challenges

- Aligning IT & business goals to grow revenue and contain costs
- Building responsiveness and agility into the organization through IT
- How can IT help enable *people & teams* be more effective?

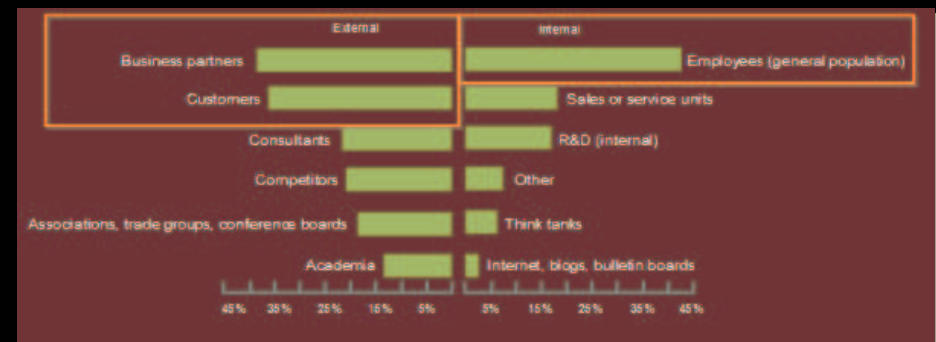


Source: IBM Corporation - July 2005 (Over 1400 Surveys Worldwide)

Innovation that Matters To CEOs

Top Innovation Priorities:

- Extend the ability to collaborate inside & outside
- **Innovative, distinct, differentiated** business models & processes
- Leverage information for business optimization



Value to IT and Line of Business

Flexibility & Responsiveness

Innovation

Open Application Development

Rapid Time to Benefit

Better Decision Making

Operational Efficiency

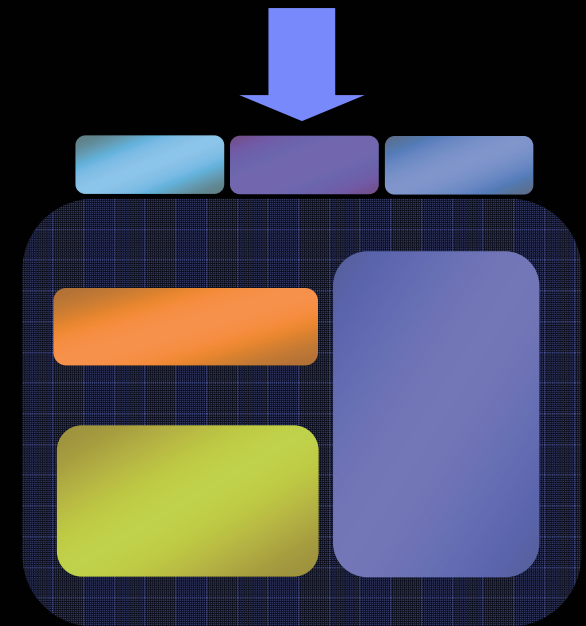
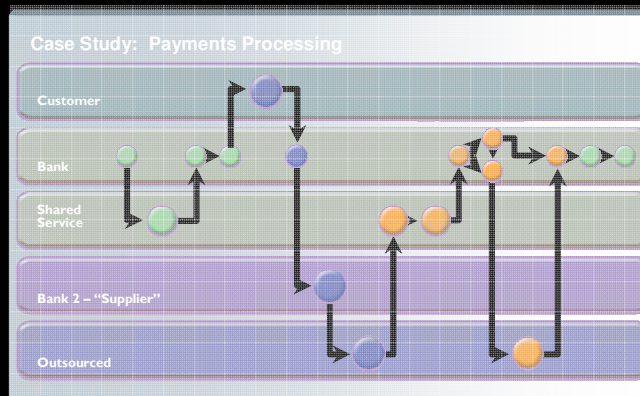
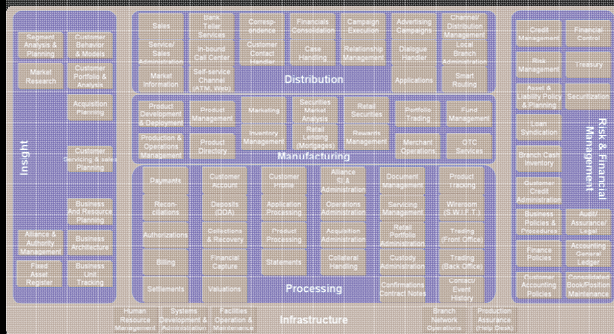
From Architecture to Action

Rapidly applying SOA to Business

Portals and work environments provide security-rich and managed **interaction** between **people**, **process**, and **information** - driving

- Innovation
- Operational efficiency
- Organizational productivity

and helping deliver results

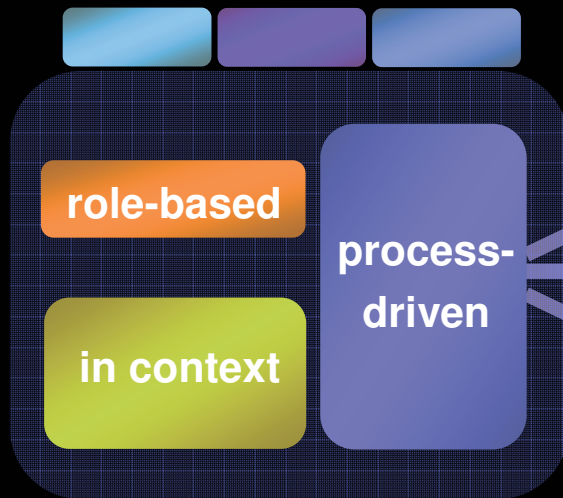


SOA Defines the **Architecture** for an **On-Demand Business**

Architecture provides **foundation** for creating **Portals and work environments**

Dynamically Delivered Portal and Work Environment Based on Choice, Openness, Flexibility

**Natural, Intuitive,
Adaptive User Experience**



Rich Clients



Browser



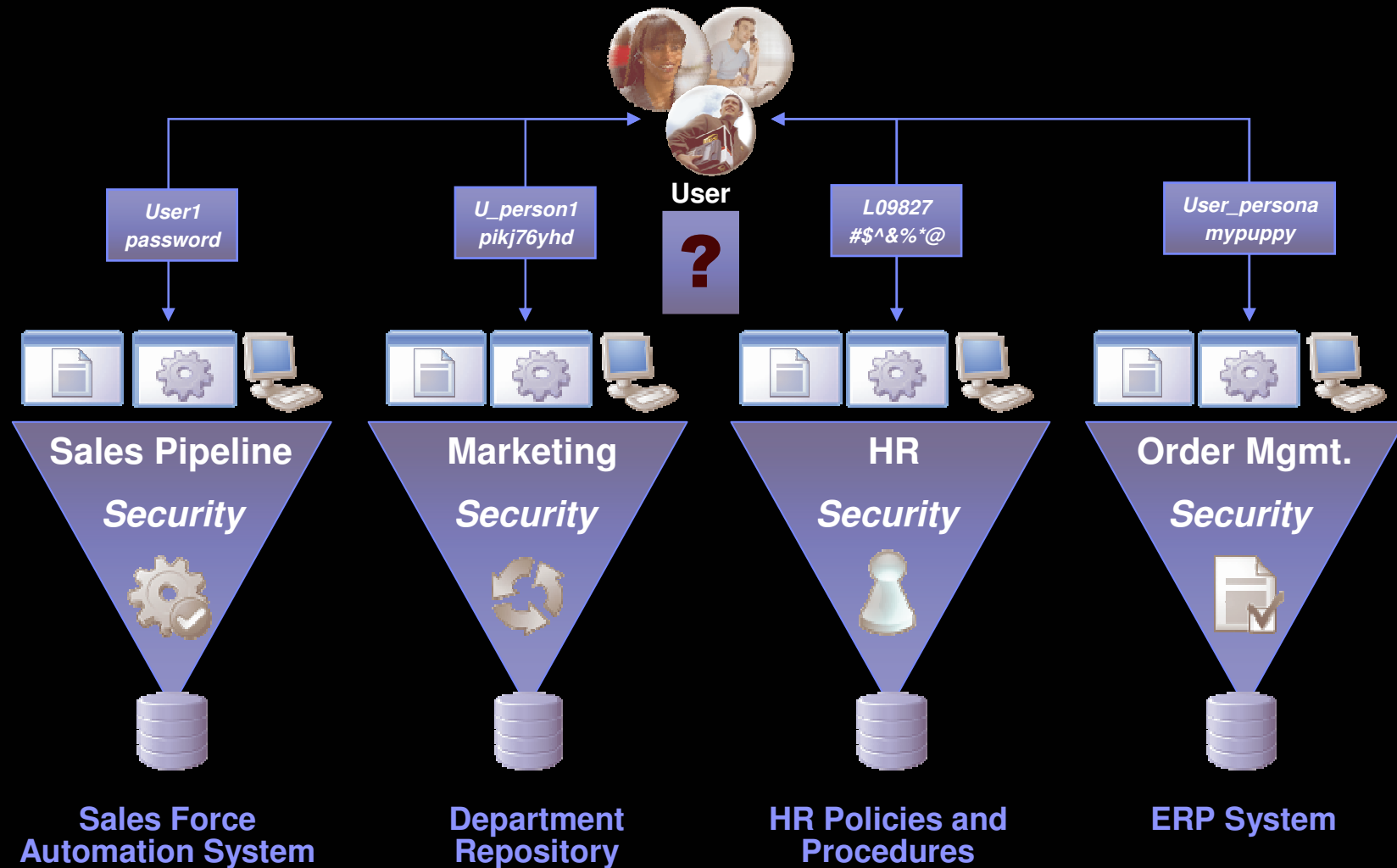
Mobile Clients

A vertical stack of three circular images representing user groups. The top group is labeled "Customers" and shows people using devices. The middle group is labeled "Employees" and shows people in a professional setting. The bottom group is labeled "Partners/Suppliers" and shows people in a meeting.

Security-Rich Composite application or view, that assembles and delivers services in the form of portlets in the context of a business process

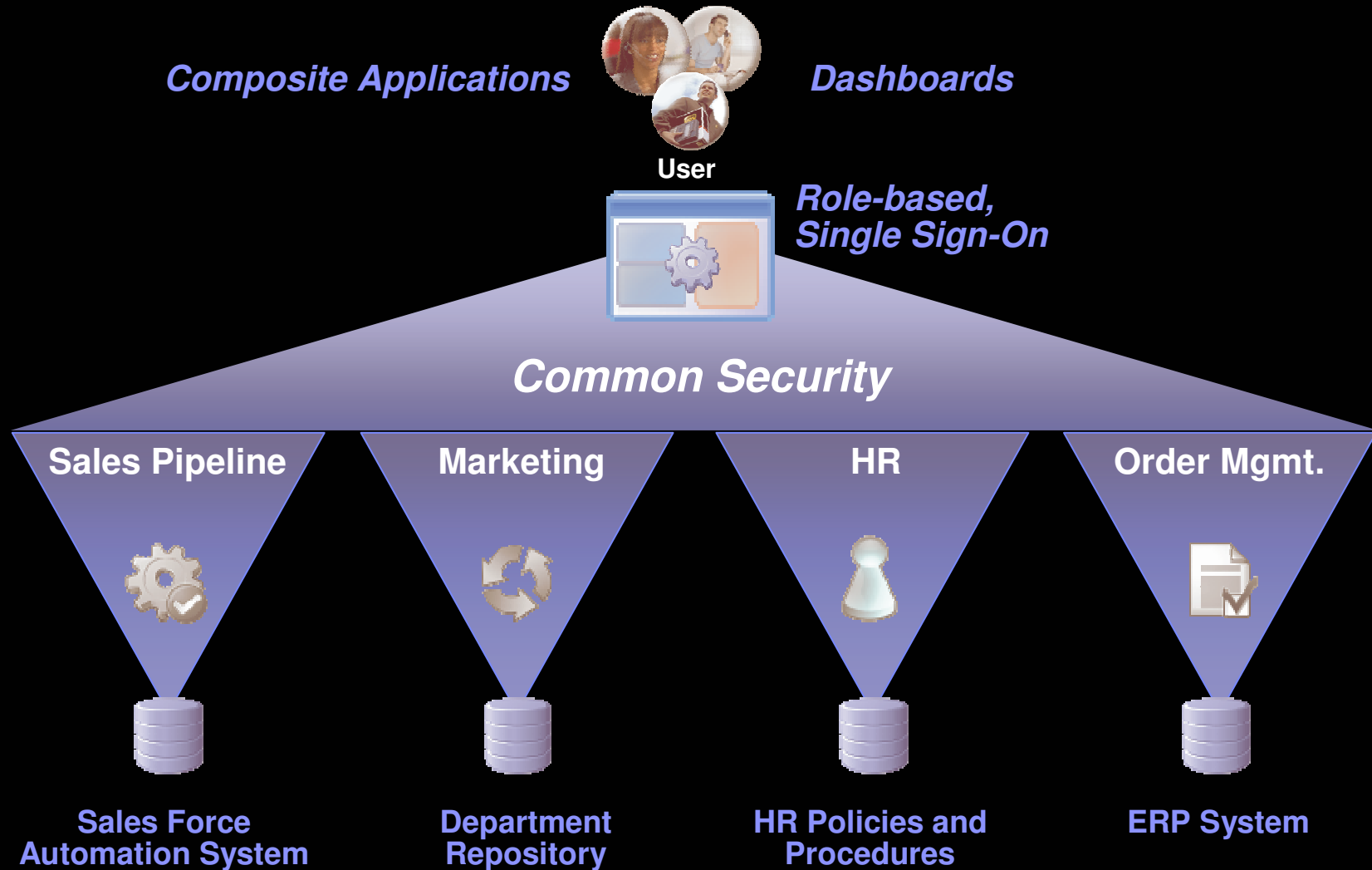
The Usability Challenge

Applications and information are delivered in silos



The Answer to the Problem

An environment that easily adapts to the needs of each user, in their role



Transit New Zealand: Value of People, Process, and Information



Business Challenge: Minimize complexities of managing siloed information and provide faster, better access to various communities



Streamline and optimize **business process** with DB2 Content Manager



A single portal improve productive **user interactivity** using WebSphere® Portal



Centralized **information** database for better business inside



Support better, more timely decisions; Greater ability to control costs and manage the growth in information management

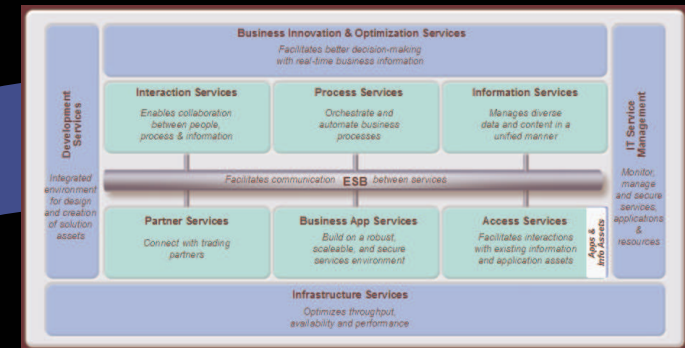


*"Our **service oriented architecture** is based on a single development paradigm that leverages reusable parts of the existing solution. We can add new functionality very easily and present data in a number of ways, **adding value** to the services we provide to our constituents."*

Geoff Yeats, CIO, Transit New Zealand

Interaction Services within SOA Reference Architecture

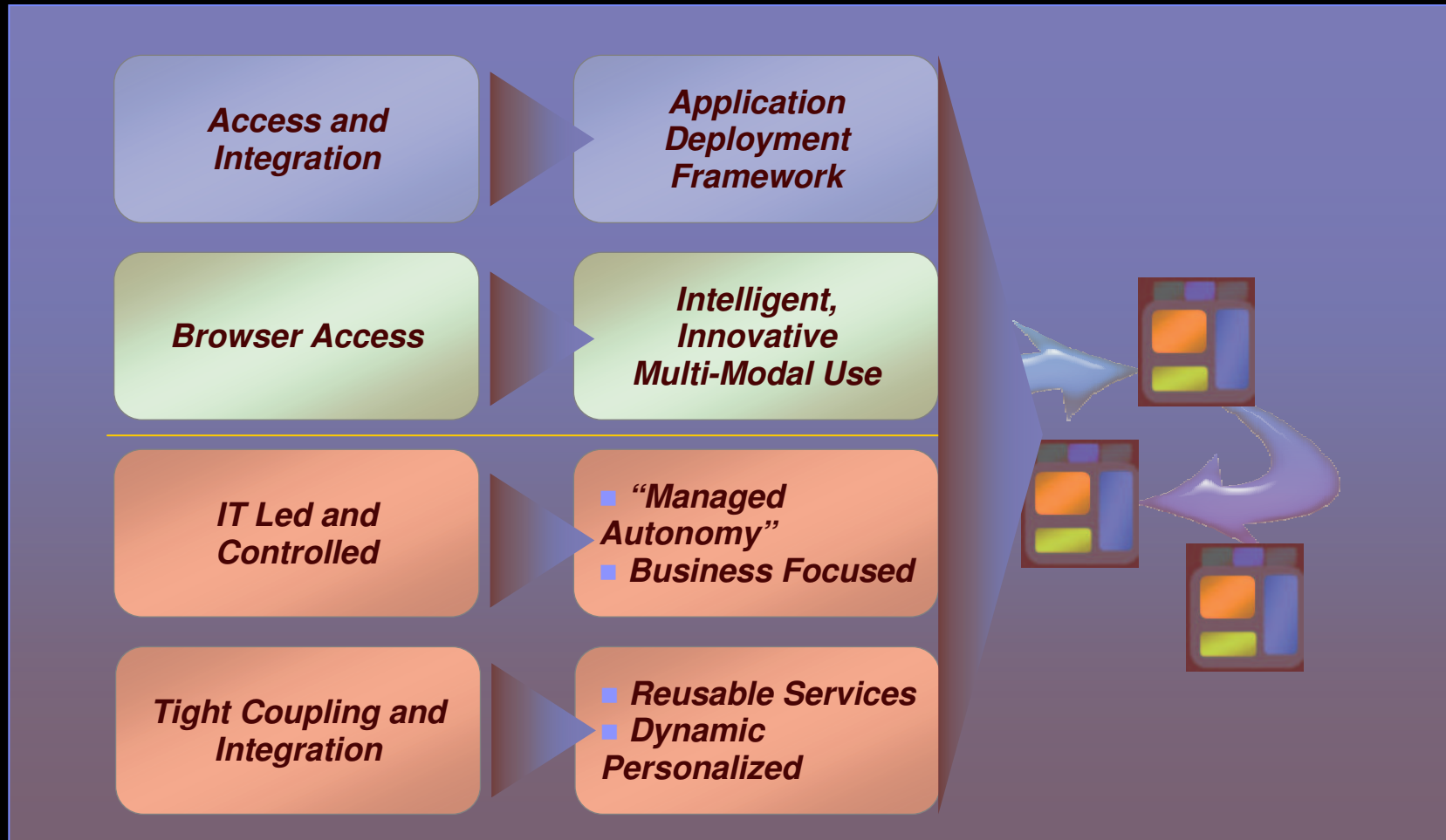
- Delivering a vital component of overall reference architecture
- Standards-Based integration with all other services
- Provides composite applications and views
- Portal framework provides the platform flexibility and responsiveness that businesses require to respond quickly to change



Interaction Services

Enables collaboration between, people, process & information

Evolution of a Portal

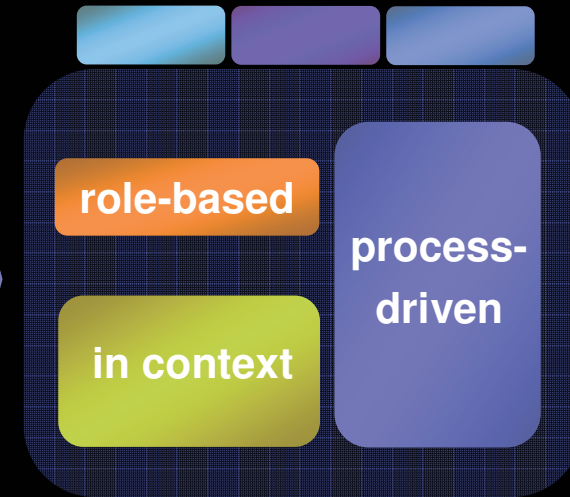


Dynamic Delivery of Vital Interaction Services

Services

Presence Awareness	Management Dashboards
Instant Messaging	Sales Force Automation
Business Alerts	Customer Relation Management
Communication	E-Forms
e-Mail	Content Management
Document Management	Collaboration
E-Learning	eHR
ERP Information	Composite products
Workflows	Syndicated Rates

**Natural, Intuitive,
Adaptive User Experience**

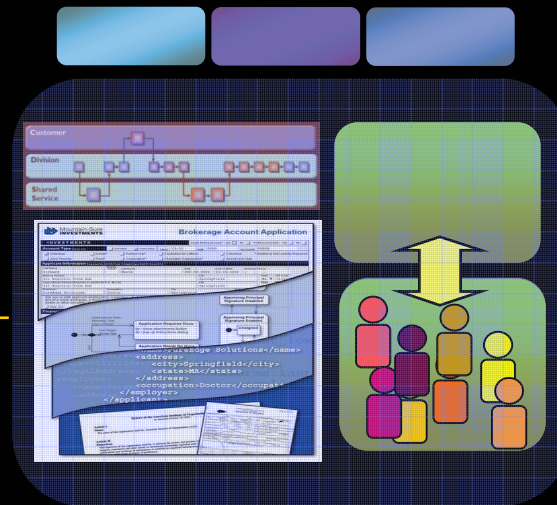


Security-Rich Composite application or view, that assembles and delivers services in the form of portlets in the context of a business process

Integrating Process and Flow into Portal and Work Environments

Name	Current Task	Assigned To	Status	Last Date Modified
Hisa Muller	Allocate Office Space	Site Ferrer	In Progress	Sept 10, 2008
Edy Rob Johnson	Purchase Equipment	Amadeu Alan	In Progress	Sept 8, 2008
Javie Smith	Receive Laptop Purchase	Lucille Suarez	In Progress	Sept 12, 2008

**Process
Orchestrating
within Portal
Form Driven
Workflows**



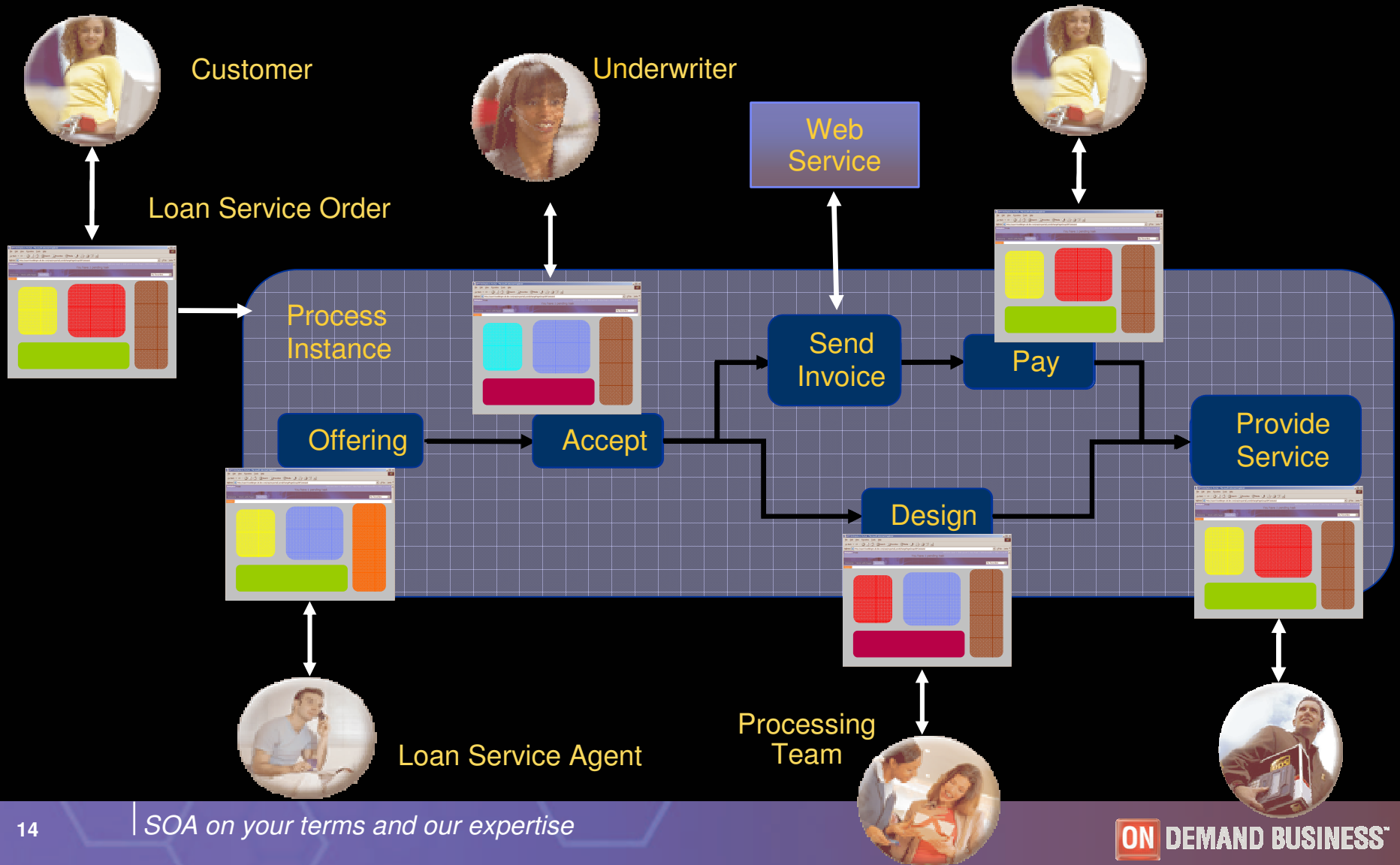
**Portlet to Portlet
Interaction**

**Ad-Hoc Person to Person
Exception Handling and
Problem Resolution**

*Dynamically Presented Based on
Role & Security*

Interface Provides Process Interaction

Delivers rich composite applications with orchestrated workflow



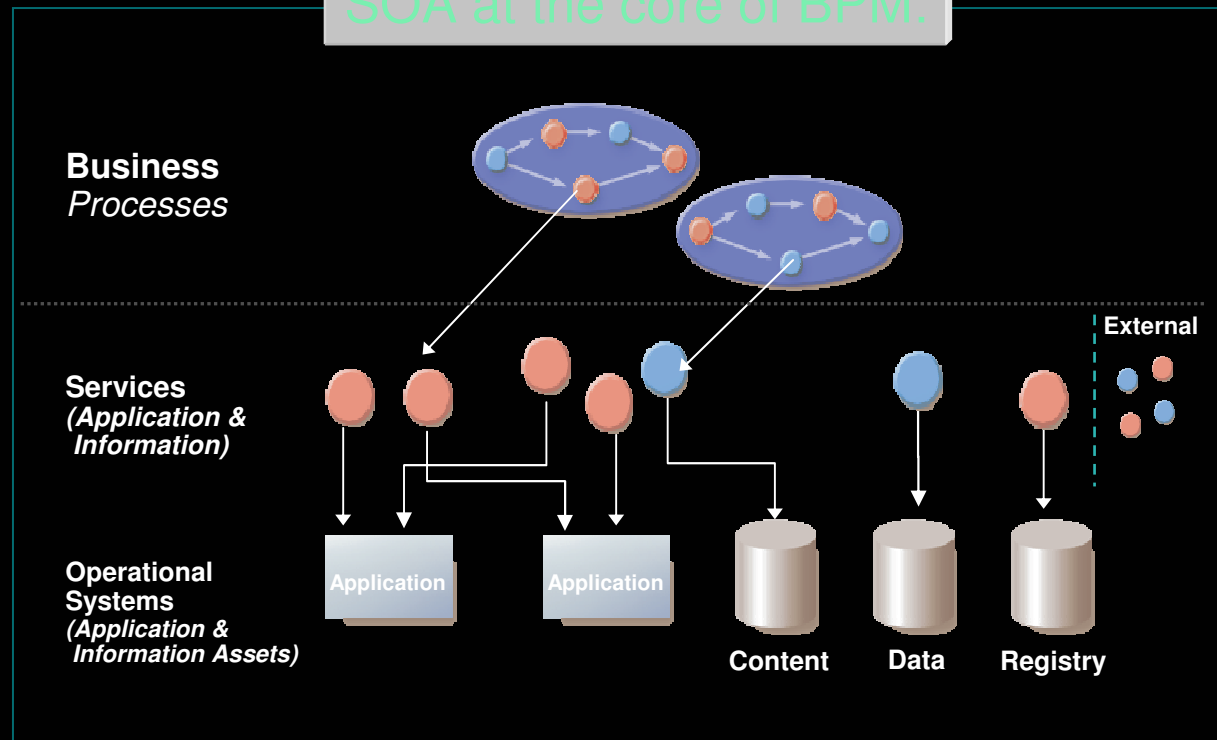
Business Process Management is Better with SOA

Services are the "building blocks" for business processes

SOA improves how you design, manage, and optimize your business processes by enabling:

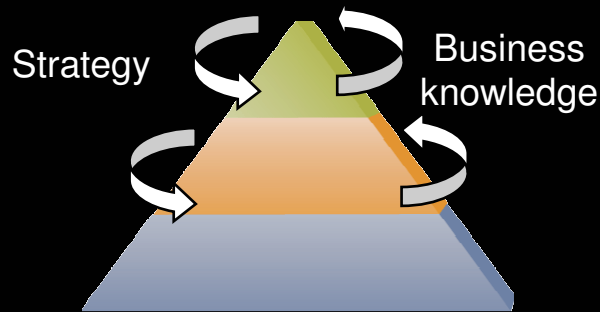
- Solution Building Efficiency
- Reuse of existing assets
- Flexibility in change

SOA at the core of BPM:

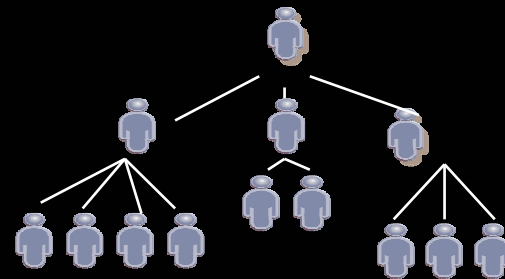


Helping Companies Better Align Employees, Strategy, and Execution

Cascade strategy down, and roll insight up, with clear ownership and tracking



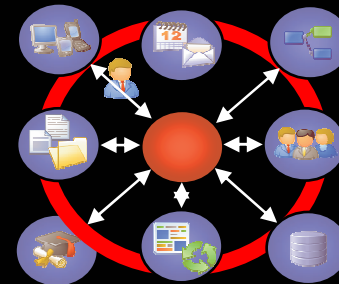
Achieve a clear line of sight and buy-in from every level of an organization



Role-out targets that are measurable at many levels

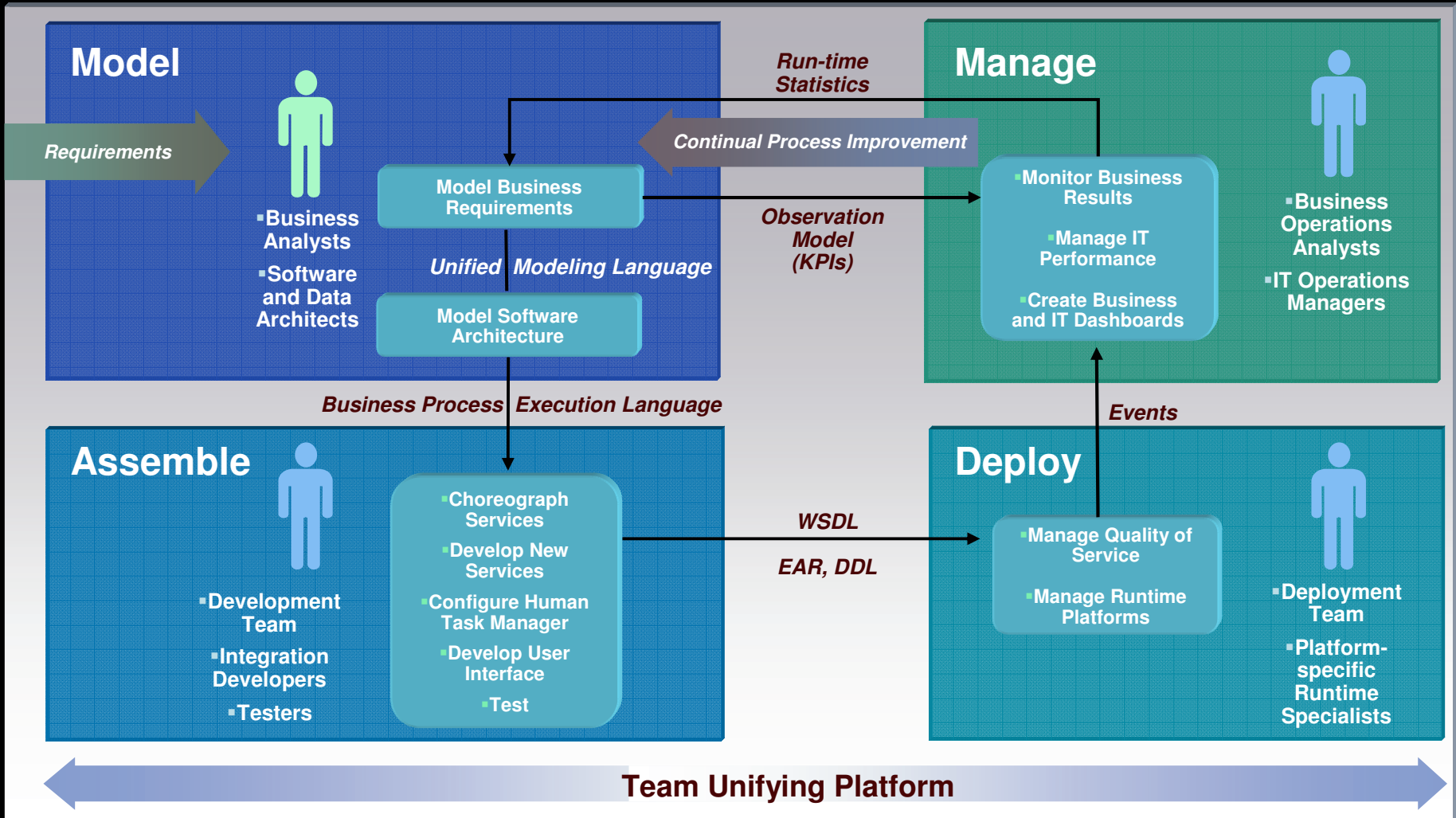


Understand all the areas, internal or external, that impact results



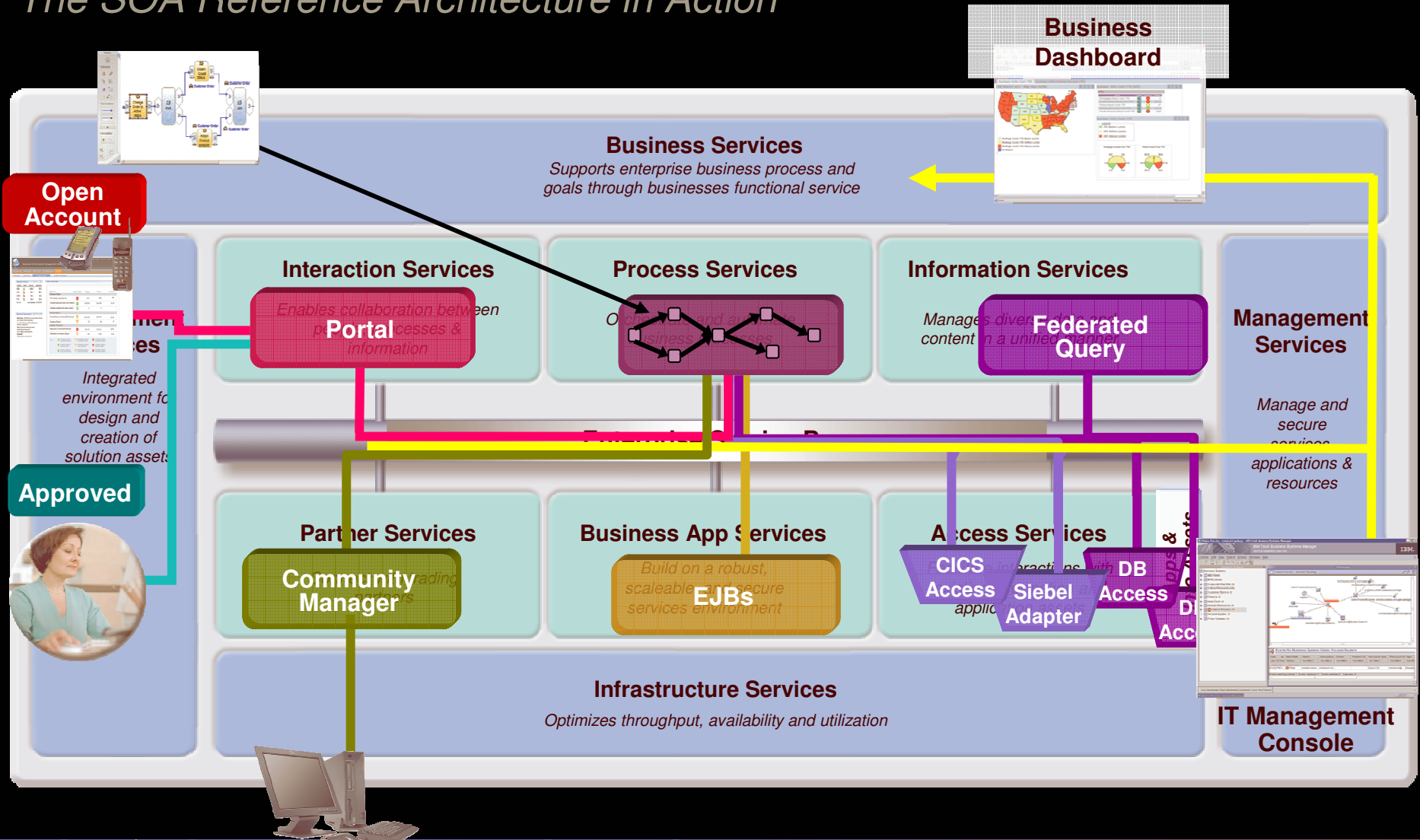
Business Driven Development

An Iterative, Business-focused Development Process

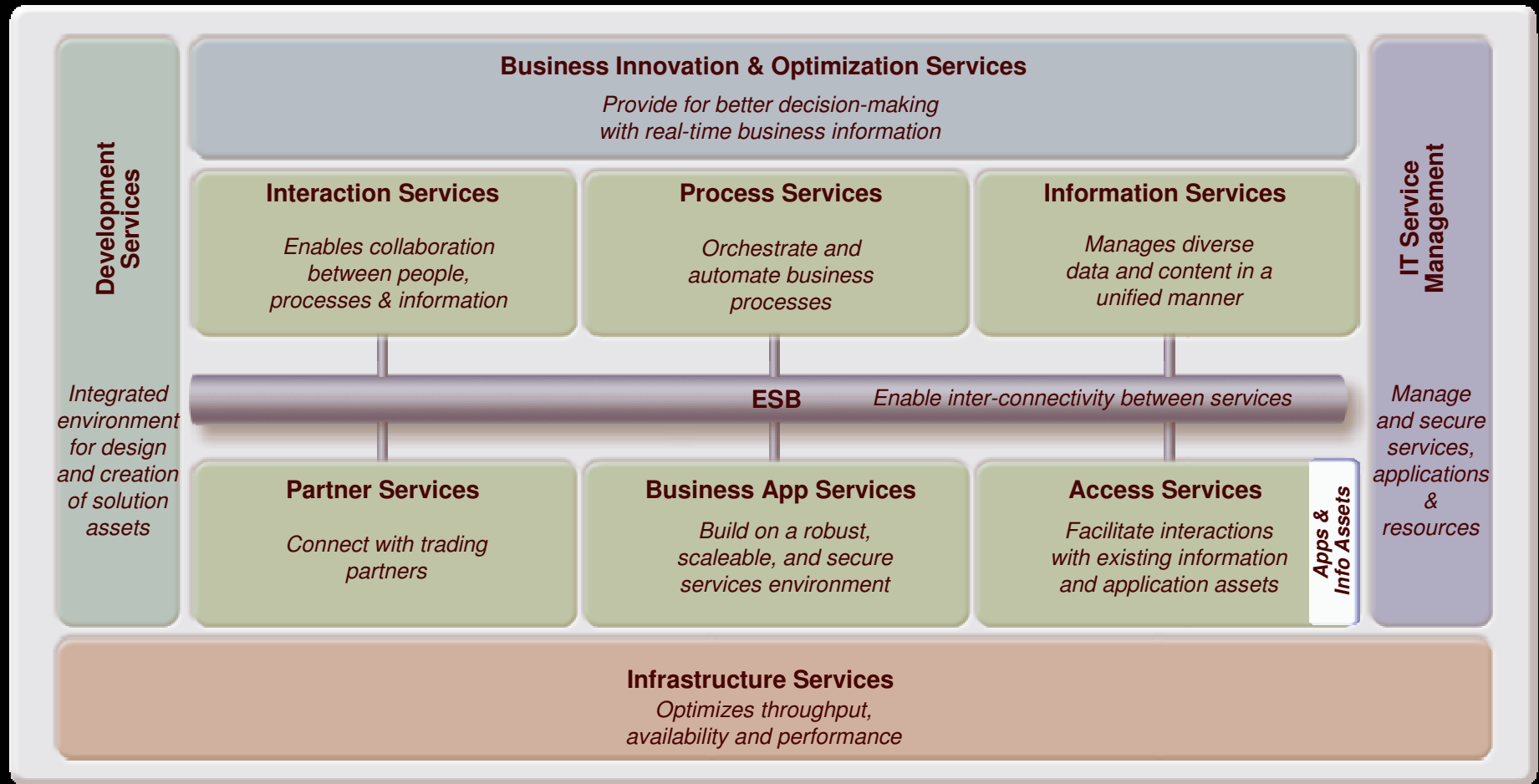


Separation of Concerns

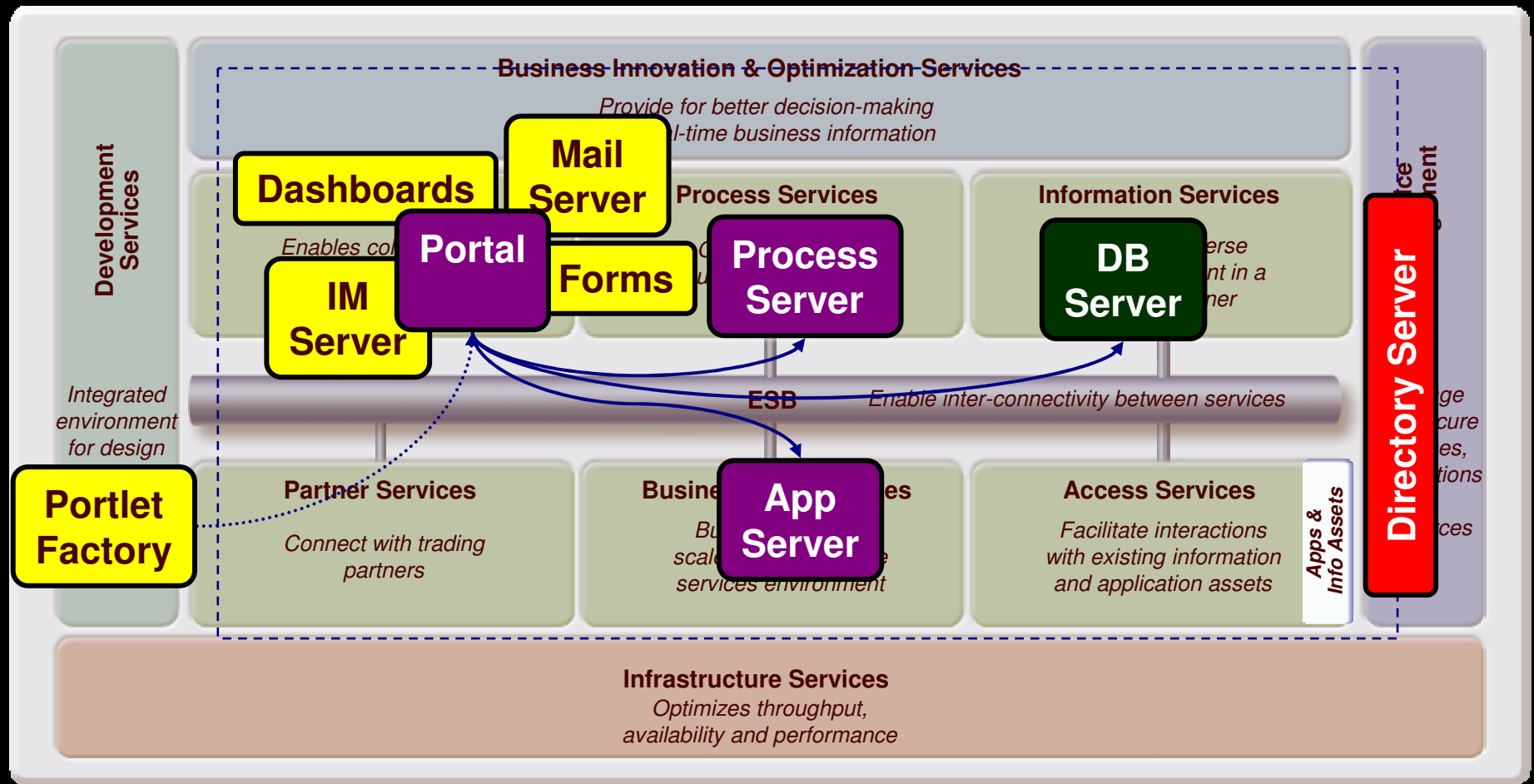
The SOA Reference Architecture in Action



SOA Reference Architecture: Separation of Concerns



Demo





Service Oriented Architecture

Thank You

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SOA on your terms and our expertise

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