



IBM SOA

SOA Real for YOU. - The Entry Points to Innovation

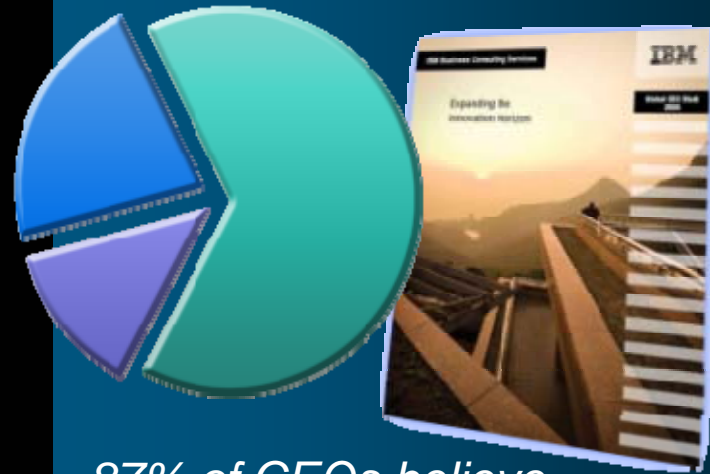
Tom Rosamilia
VP WebSphere



Innovation that Matters To CEOs

Top Innovation Priorities:

- Extend the ability to collaborate inside & outside
- Innovate business models & processes
- Leverage information for business optimization



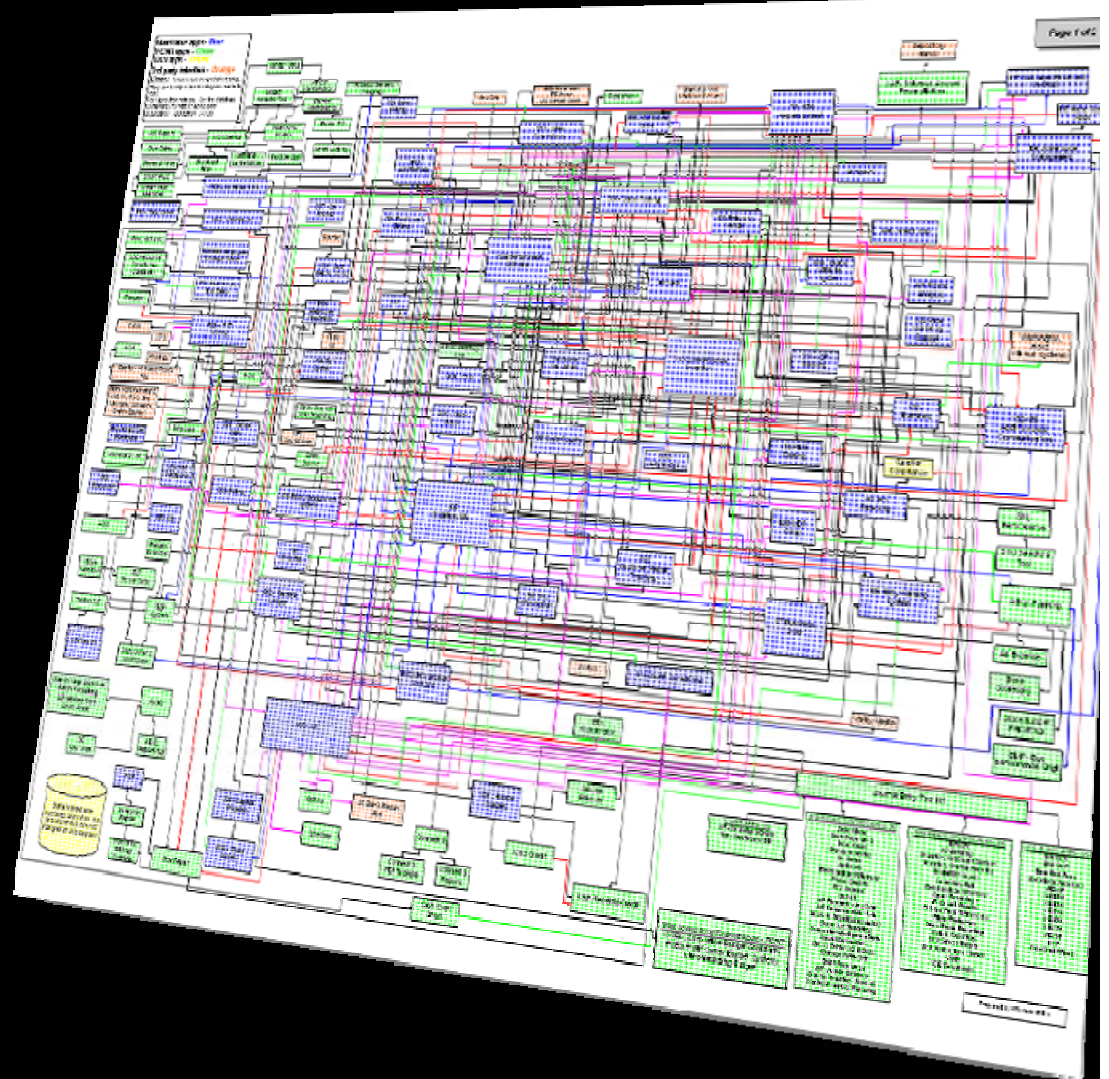
*87% of CEOs believe fundamental **change** is required in next two-years to drive innovation*

Source: 2006 IBM Global CEO Survey

Innovation is all about change. SOA makes it easier to change.

What are the barriers to business flexibility and reuse?

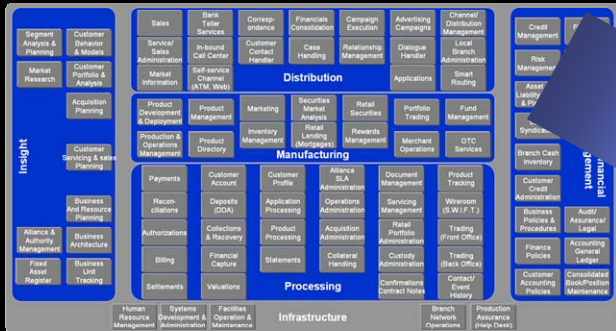
- **Lack of business process and integration standards**
- **Architectural policy limited**
- **Point application buys to support redundant LOB needs**
- **Infrastructure built with no roadmap**



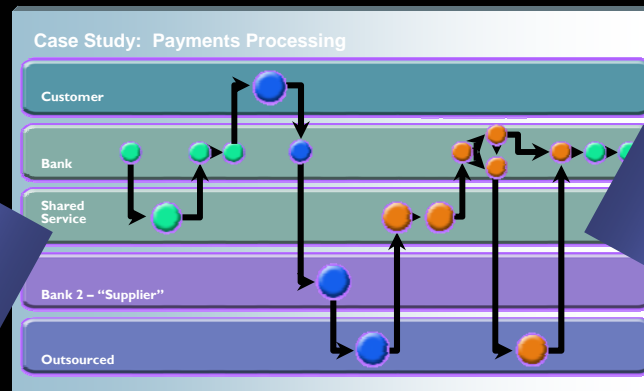


Flexible business requires flexible IT

Full Business view



Process to optimize



Creating IT flexibility

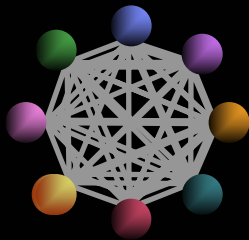
IBM SOA Foundation



SOA builds flexibility on your current investments

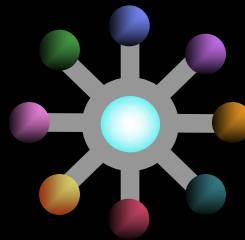
The next stage of integration

Messaging Backbone



- Point-to-Point connection between applications
- Simple, basic connectivity

Enterprise Application Integration (EAI)



- EAI connects applications via a centralized hub
- Easier to manage larger number of connections

Service Oriented Integration



- Integration and choreography of services through an Enterprise Service Bus
- Flexible connections with well defined, standards-based interfaces

Flexibility

As Patterns Have Evolved, So Has IBM

The basics: What is SOA?

... a service?

A **repeatable business task** – e.g.,
check customer credit;
open new account



... **service oriented architecture (SOA)?**

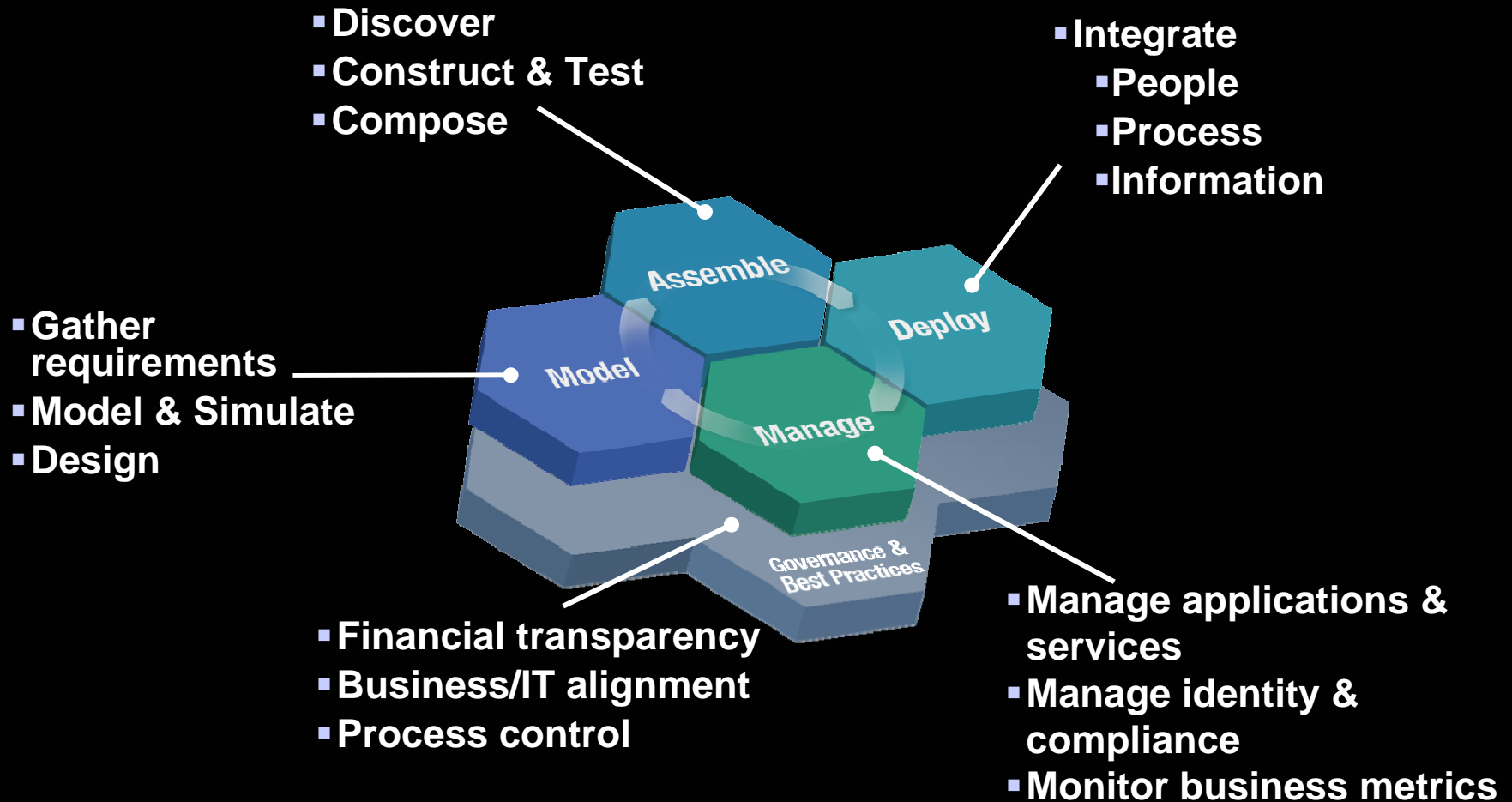
An **IT architectural style** that supports
integrating your
business as linked
services

"SOA impacts every aspect of IT and business."

Gartner

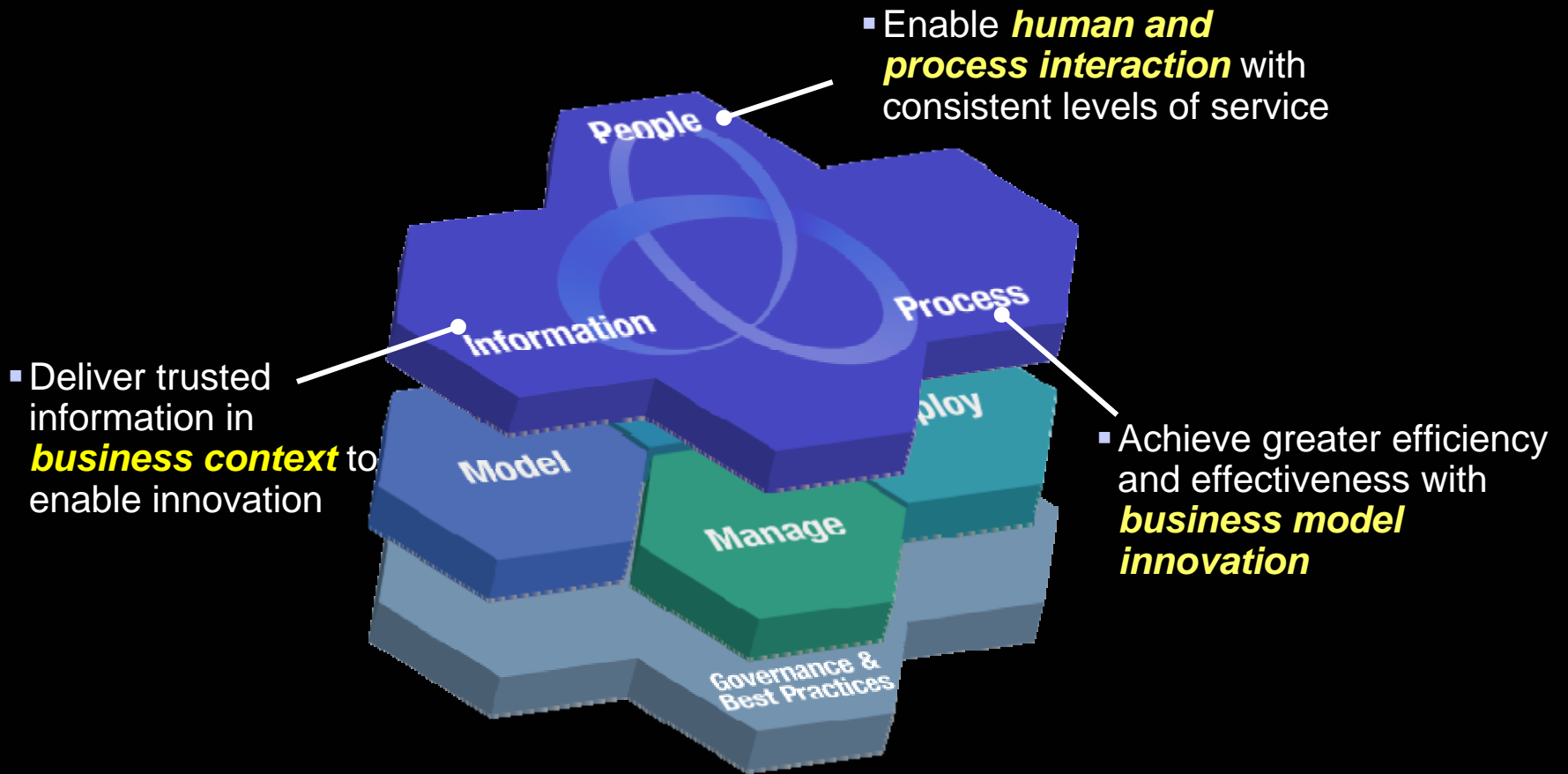
How are customers thinking technically about flexible IT through SOA?

The SOA Lifecycle



IBM's View of SOA: Business Centric.

Built on SOA Lifecycle



A recent study of over 500 customers showed SOA starting points of people, process, information or a combination of all three



SOA Entry Points Help Customers Get Started

Both Business Centric and IT Focused



People Centric Approach - Greater Value through SOA

Intuitive & Adaptive User Experience

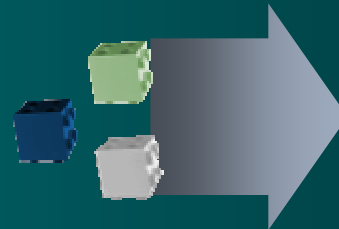


Value

Improve people productivity by aggregating views that deliver information and interaction in the context of a business process

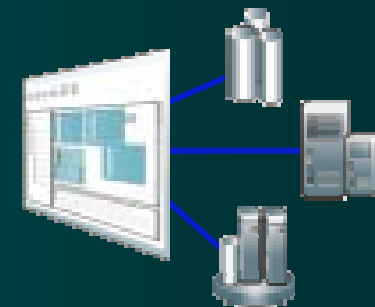
Why SOA?

Composite applications created, deployed, and updated faster with SOA portlets



Start with

Build a view of a key business process by integrating information in front of people to improve decision making



Next steps

Manage performance more tightly with alert-driven dashboards tied to processes

Information Centric Approach – Greater Value through SOA

Delivering Information as a Service to People and Processes

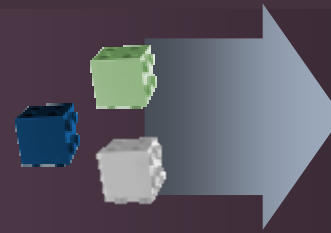


Value

Improve business operations and reduce risk with trusted information services delivered in-line and in-context

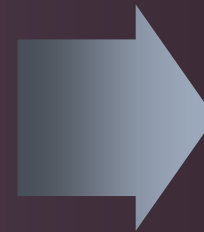
Why SOA?

Trusted information packaged as services are embedded inline within processes or delivered to people



Start with

Discover and understand information sources, relationships & business context– Choose reusable high value data for first services



Next steps

Expand number and scope of services across internal and external processes

Process Centric Approach - Greater Value through SOA

Business Process Management for Continuous Innovation

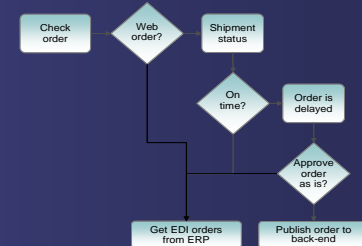
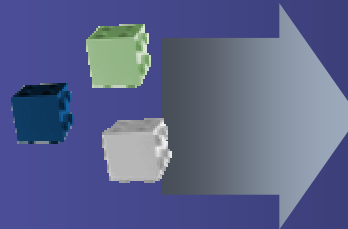


Value

Innovative business models deployed quickly with flexible and optimized processes. Measure performance to drive improvement.

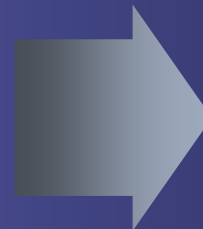
Why SOA?

Modeled processes, converted into services, are re-used, connected and re-deployed more flexibly and quickly with SOA



Start with

A single process – Model an underperforming process. Optimize and deploy as enhanced process.

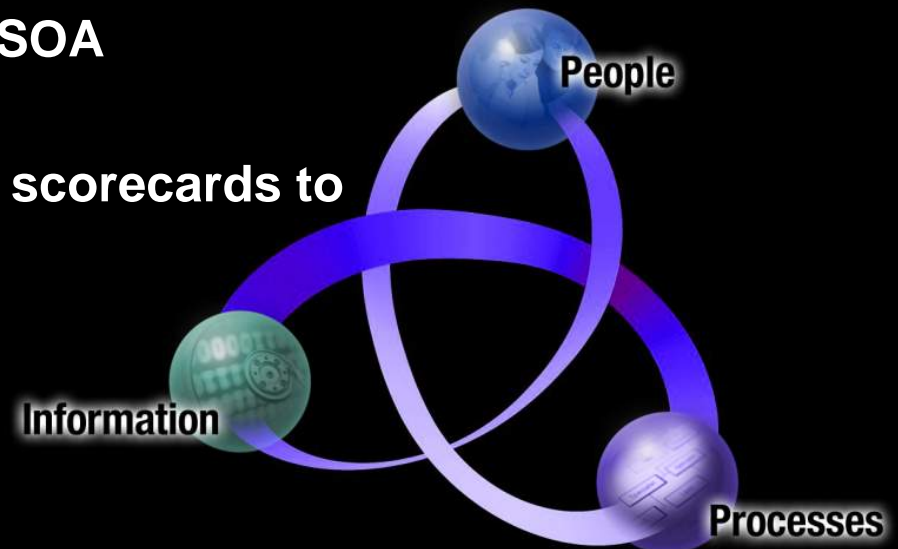


Next steps

Flexibly link multiple processes across the enterprise & to suppliers / partners. Monitor the process to measure & track performance.

Best Practices for a successful BPM with SOA implementation

1. **Capture and modify your business processes to drive improvement**
2. **Bridge the gap between the business and IT**
3. **Build a BPM Framework using SOA**
4. **Use executive dashboards and scorecards to manage your business**

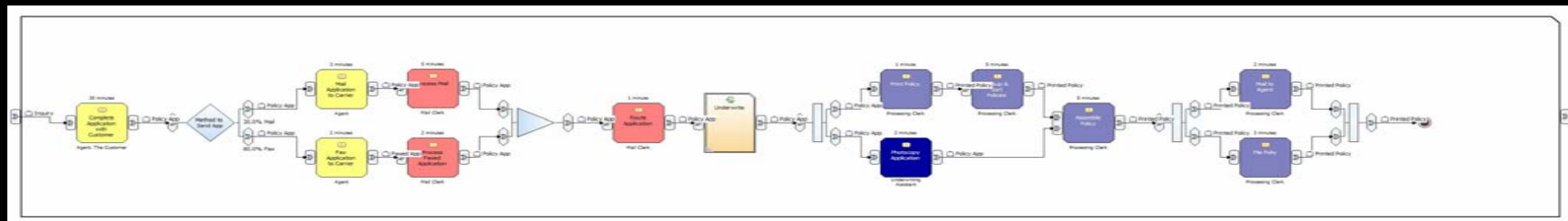


Best Practice #1

Capture and modify your business processes to drive improvement

67% of reengineering projects produced marginal or failed results. because their impact was not known prior to execution --Omar Sawy, *Redesigning Enterprise Processes For e-business*

- **Identify the core processes that differentiate your business**
 - Import your existing process documentation, or
 - Create a new process model
- **Through simulation, Identify the tasks that impact your process performance the most**
- **Modify your process model to create “To-be” scenarios**



Best Practice #1 cont.

- Publish model for collaboration with the process team
 - Enable participation in reviews and modifications

- **Run simulation again to calculate value of improvements**
 - Compare and analyze Results

Current State – Times & Costs

Case Analysis with Unlimited Resources

Probability	Average Process Time (min:sec)	Average Cost
32.91%	10:11	\$5.40
32.10%	3:11	\$1.67
15.01%	14:11	\$7.56
15.20%	3:21	\$1.77
4.78%	11:11	\$5.93

1	Direct mail, Complex
2	Direct Mail, Simple
3	Telemarketing
4	Email, Complex
5	Email, Simple

Future State – Times & Costs

Case Analysis with Unlimited Resources

Probability	Average Process Time (min:sec)	Average Cost
35.57%	8:16	\$4.38
33.03%	1:51	\$0.96
13.51%	7:51	\$4.16
14.50%	1:54	\$0.96
2.39%	8:16	\$4.38

Lower processing time and costs



Best Practice #2

Bridge the gap between the business and IT

- **Create a process design team:**
 - include both business and IT
 - assign owners and roles for processes design and management
- **Tighter alignment assures a seamless handoff from business to IT for assembly and deployment**

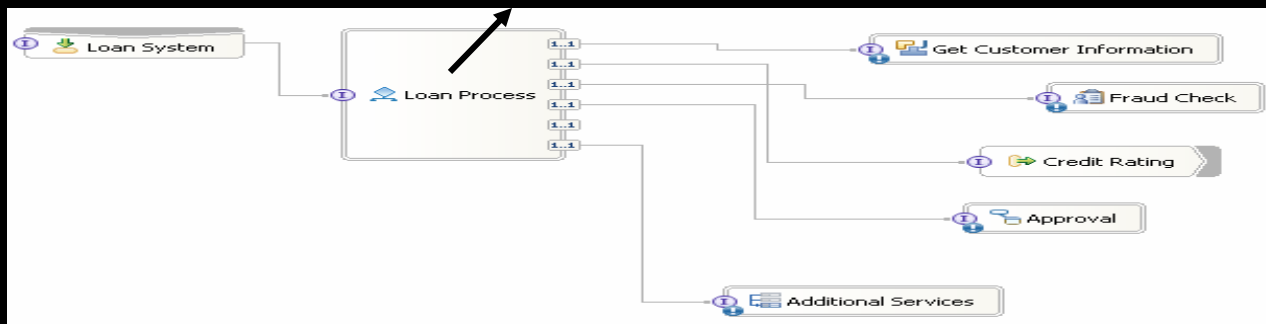


“It is impossible to separate IT and business strategy. IT doesn’t support the business, it is the business.”

Best Practice #3

Build a BPM Framework using SOA

- Simplified hand-offs between business and IT that let developers get started quickly
- Easy to use tools that minimize skill requirements to build composite applications
- Streamlined development with the reuse of existing resources
- Dynamic process assembly
- Utilize a single process server for human workflow, process choreography, and information sharing

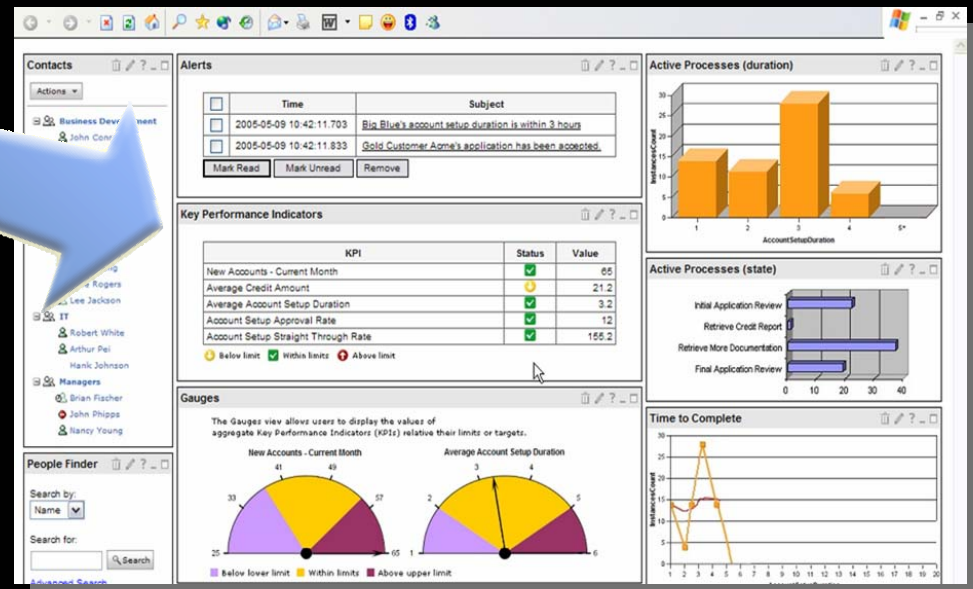
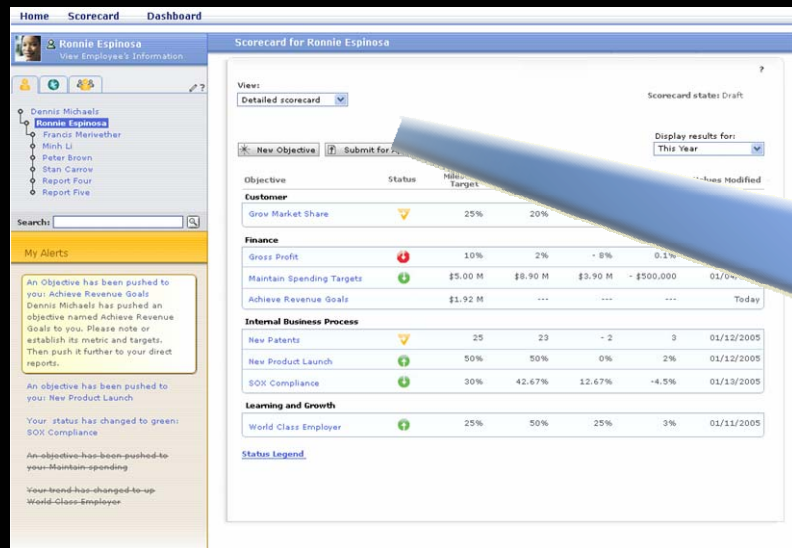




Best Practice #4

Use executive dashboards and scorecards to manage your business

- View performance of processes through Key Performance Indicators
 - Track cost, time and resources
- Intervene in the process to ensure business is running in compliance
- Use data collected for continuous Process Improvement





Enhanced! SOA Announcements for Process SOA Processes with Built-in Flexibility

ENHANCED!

WebSphere Business Modeler

- Hundreds of Process templates
- Enhanced analysis and simulation capabilities
- Process metric definition for Key Performance Indicators
- Interoperability with other modeling tools
- National language support

ENHANCED!

WebSphere Process Server and Integration Developer

- Multiple platforms including System z availability
- National language support for BPM
- Complete toolbox for building composite SOA applications
- Real-time process enhancements; architected for reuse and flexibility



ENHANCED!

WebSphere Business Monitor

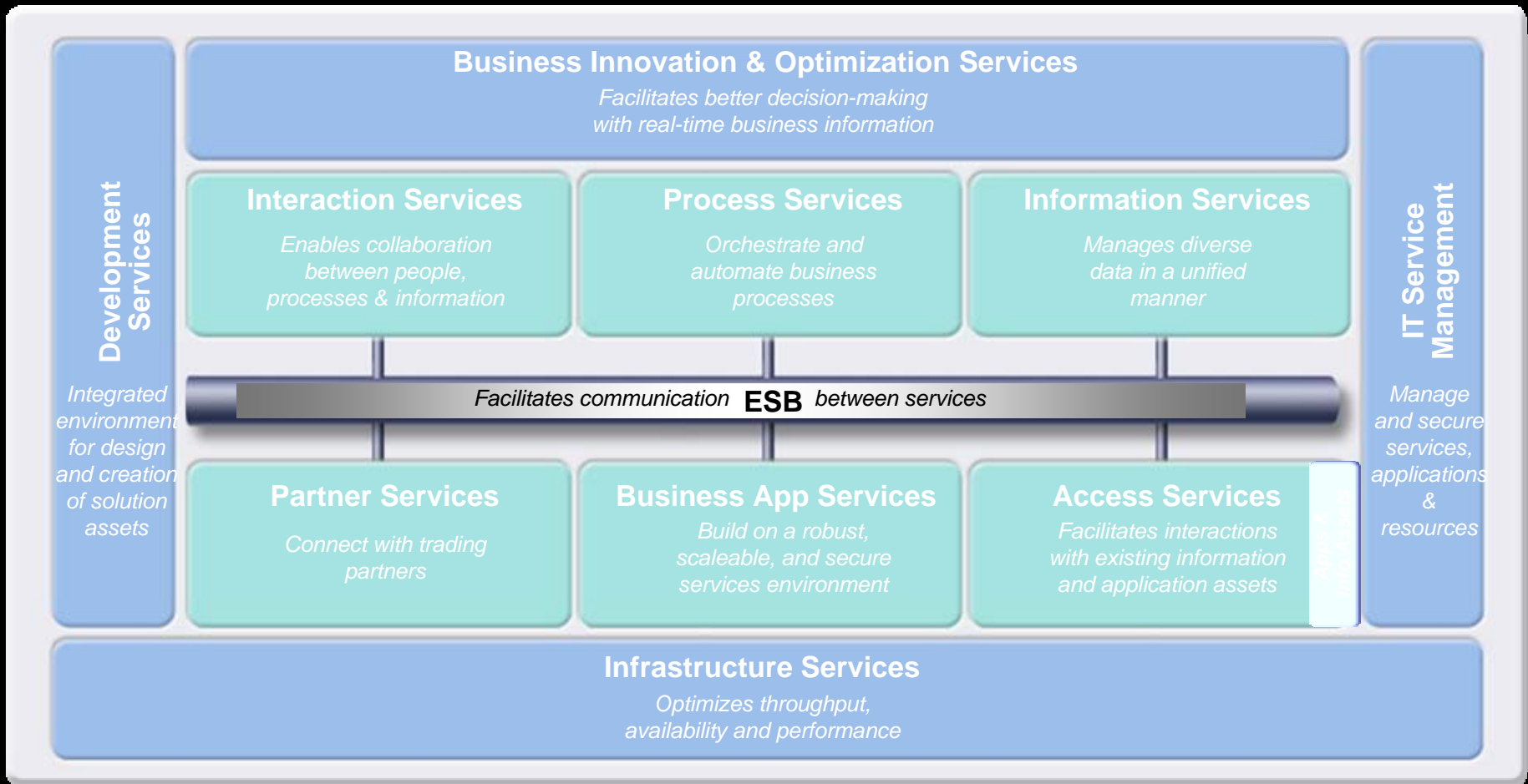
- Real-time process visibility and modification
- Monitor process metrics and Key Performance Indicators
- Event triggers and alerts
- National language support

ENHANCED!

DB2 Content Manager

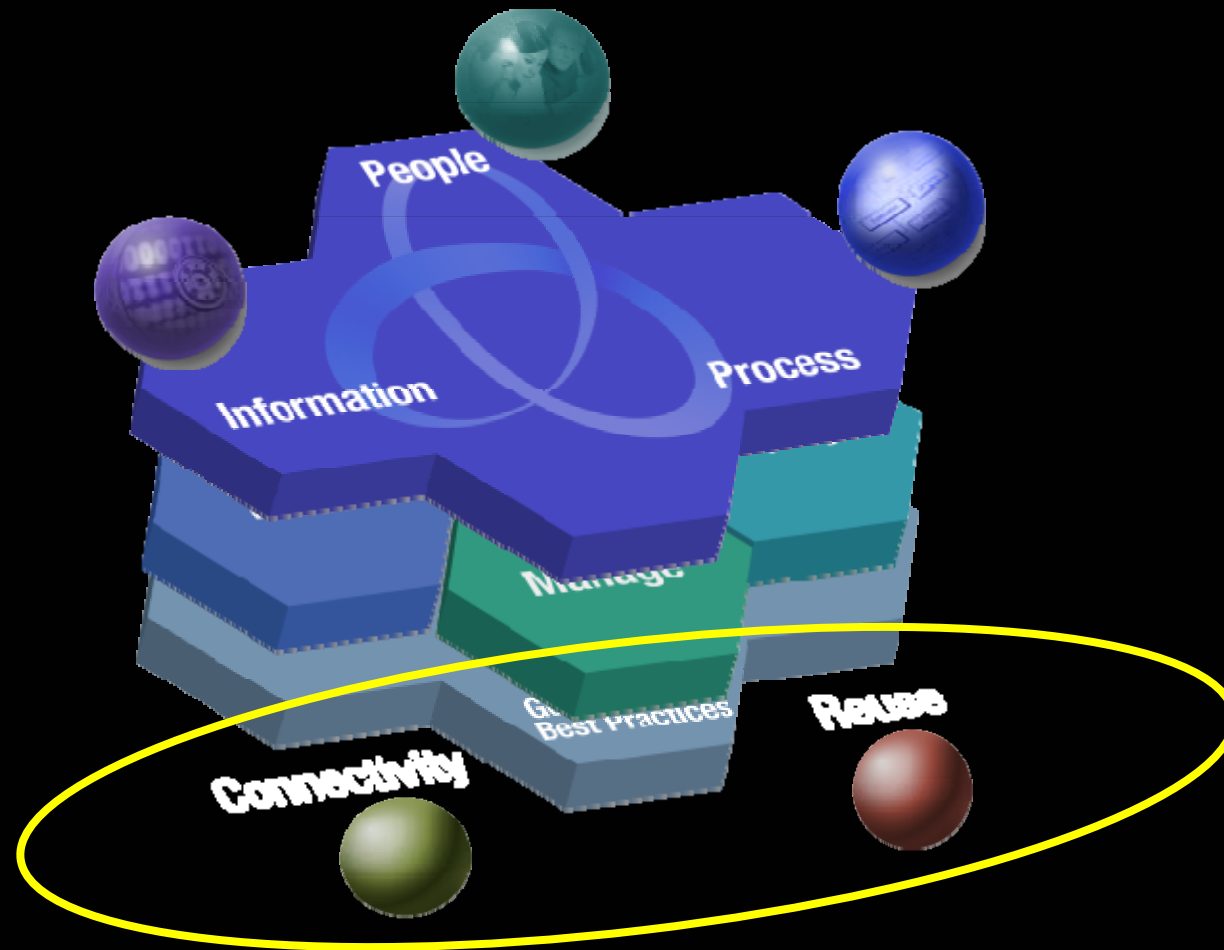
- Formal, consistent, repeatable document processes
- Integration with WebSphere Process Server
 - Quick Start Toolkit - SCA components and objects to implement common interaction patterns
- Repository services for Workplace Forms
- Supports XML APIs

Business process management leverages capabilities from across the SOA Reference Architecture



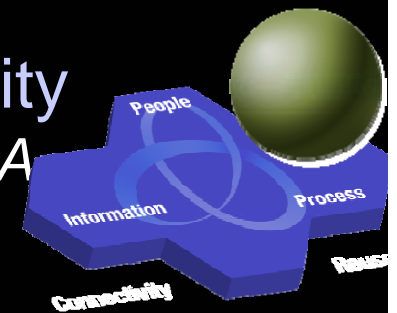
SOA Entry Points Help Customers Get Started

Both Business Centric and IT Focused



Enhanced! SOA Announcements for Connectivity

Underlying Connectivity to Support Business Centric SOA



SOA Connectivity

ENHANCED!

WebSphere ESB and Message Broker

- Support for System z and WAS ND
- Expose non-services applications as services
- DataStage TX plugin for Advanced ESB
- Advanced ESB availability on 64 bit platforms

ENHANCED!

WebSphere DataPower Appliances

- Simplifies SOA with drop-in purpose-built devices
- Helps secure SOA and Web services
- Accelerates & scales SOA with high-performance XML processing



ENHANCED!

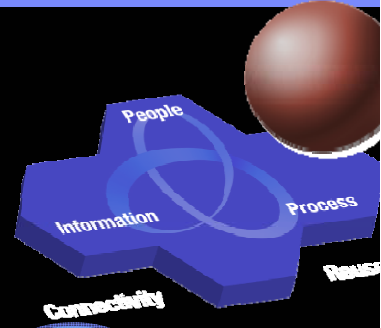
WebSphere MQ & MQ Extended Security Edition

- Enhanced security for your SOA messaging backbone
- Message-based connectivity between applications or files
- Improved developer productivity with XMS

ENHANCED!

WebSphere Adapters


- Rapid connection for hundreds of endpoints into your SOA
 - First class support for SAP and Oracle apps
- Enhanced support for data, messaging, Web services, Linux on System z



New! Creating & Reusing Services for SOA

Create Flexible, Service-based Business Applications

SOA Sharing & Reuse

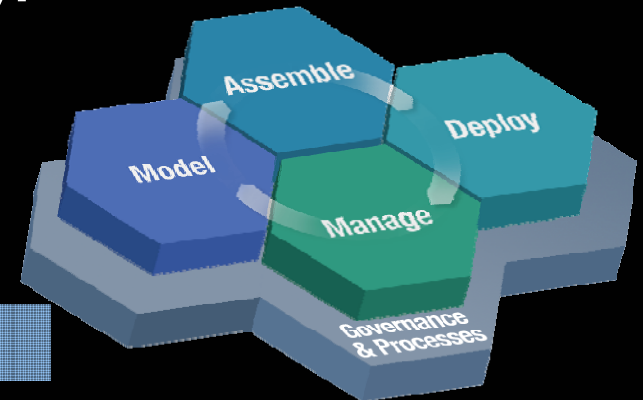
<p>NEW!</p> <h4>WebSphere Service Registry and Repository</h4> <ul style="list-style-type: none"> ▪ Repository for service metadata ▪ Publish & locate services ▪ Capture service dependencies ▪ Policy management ▪ Interoperability across other registries and repositories 	<p>NEW!</p> <h4>SOA Business Central</h4> <ul style="list-style-type: none"> ▪ Comprehensive set of IBM and validated Business Partner developed SOA offerings for BPM ▪ Industry- specific SOA assets and best practices for BPM <p><i>Example: IFW (banking), IAA (insurance) and other industry models</i></p> 	<p>ENHANCED!</p> <h4>WebSphere Application Server</h4> <ul style="list-style-type: none"> ▪ Tooling and JDK 5 innovations for creating and deploying re-usable services ▪ New & Enhanced Web Services Standards <ul style="list-style-type: none"> ▪ Web Services Interoperability Basic Security Profile ▪ Web Services Notification ▪ Web Services Business Activity ▪ Integrated support for real-time multimedia elements 	<p>ENHANCED!</p> <h4>Reuse of System z Assets</h4> <ul style="list-style-type: none"> ▪ CICS Transaction Server <ul style="list-style-type: none"> ▪ Enhanced web services for better access to trusted, high quality applications ▪ WebSphere Developer for zSeries, Studio Asset Analyzer <ul style="list-style-type: none"> ▪ Visually compose services into process flows ▪ Analyze applications for re-use 	<p>ENHANCED!</p> <h4>WebSphere Commerce</h4> <ul style="list-style-type: none"> ▪ Consistent cross-channel experience through reuse of processes and data ▪ Web, Contact Center, Store Kiosks, Gift Registry, Partner Sites and more... ▪ Cross channel order processing through web services
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Why IBM WebSphere software for BPM for SOA?

Nobody has the breadth or depth

- **IBM offers end-to-end BPM based on an SOA infrastructure**
- **IBM's BPM portfolio delivers rich functionality:**
 - Sophisticated Modeling/Simulation
 - Closed loop feedback
 - Extensive tooling
 - Best integration engine in the market

Nobody can get you started faster



**Extensive history and leadership in legacy and application integration—
critical aspects of BPM**

Leading best practices

Unmatched industry expertise

SOA Business Central

-hundreds of pre-existing process models to speed time to value

Let's Go!

Encourage Innovation with a Focused SOA Project

1. Understand the value of SOA
 - Not just doing the same thing a different way
 - SOA is not just about technology, but technology's integration with business insight and thought leadership
2. Select your entry point (People, Process, Information, Reuse, Connectivity)
3. Get Assessed! SOA Self Assessment
4. Conduct an SOA workshop to develop your plan with ROI tied to it
5. Apply governance to your project



Contact your IBM representatives or Business Partner to help prove your ROI !

Thank
You

