



Business Processes Management and the Foundational Tooling



Key Questions:

What is Business Process Management?

What IBM tooling is available to support BPM?

Why deploy on System z?



Business Process Management



The Business Landscape is Changing

Forcing Companies of All Sizes to Respond to a 'Flat World'

Innovation that matters to CEOs:

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



87% expect fundamental change in next 2 years
78% believe innovation requires business and technology

Aligning IT and Business Goals

Top IT Management and Technology Priorities

Top IT Management Priorities for the year ahead



Source: CIO Magazine's "State of the CIO Survey". CXO Media Inc., 2007.

Aligning IT and Business Goals

Top IT Management and Technology Priorities

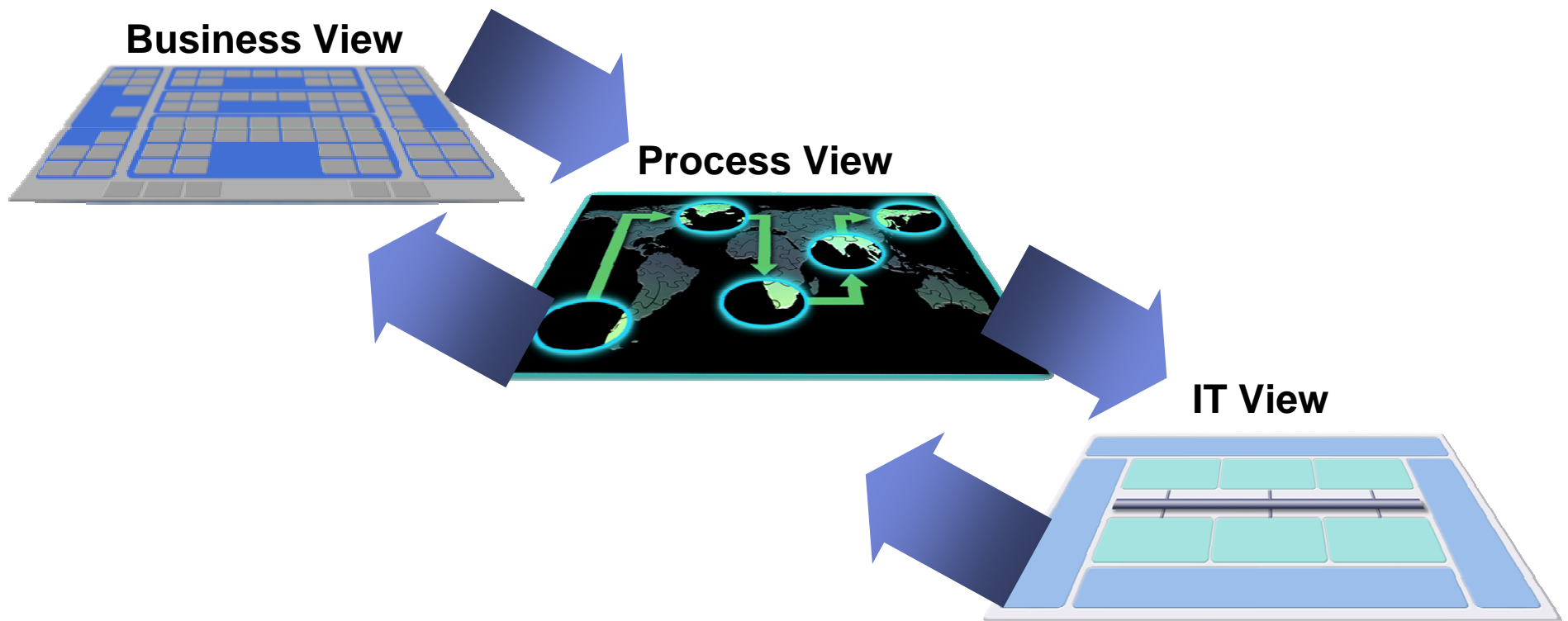
Top IT Technology Priorities for the year ahead



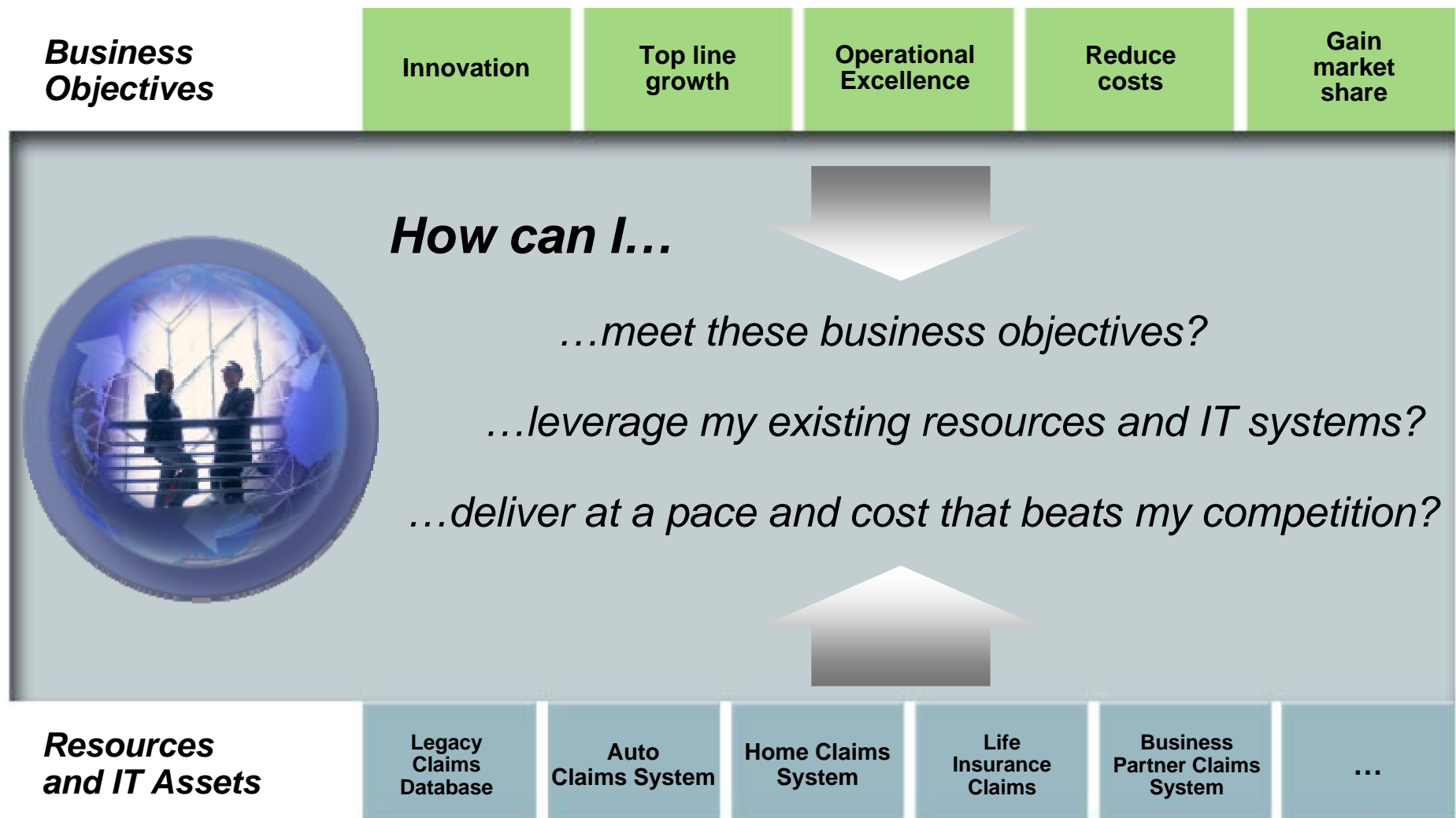
Source: *CIO Magazine's "State of the CIO Survey"*. CXO Media Inc., 2007.

BPM—holistic approach to innovation and optimization

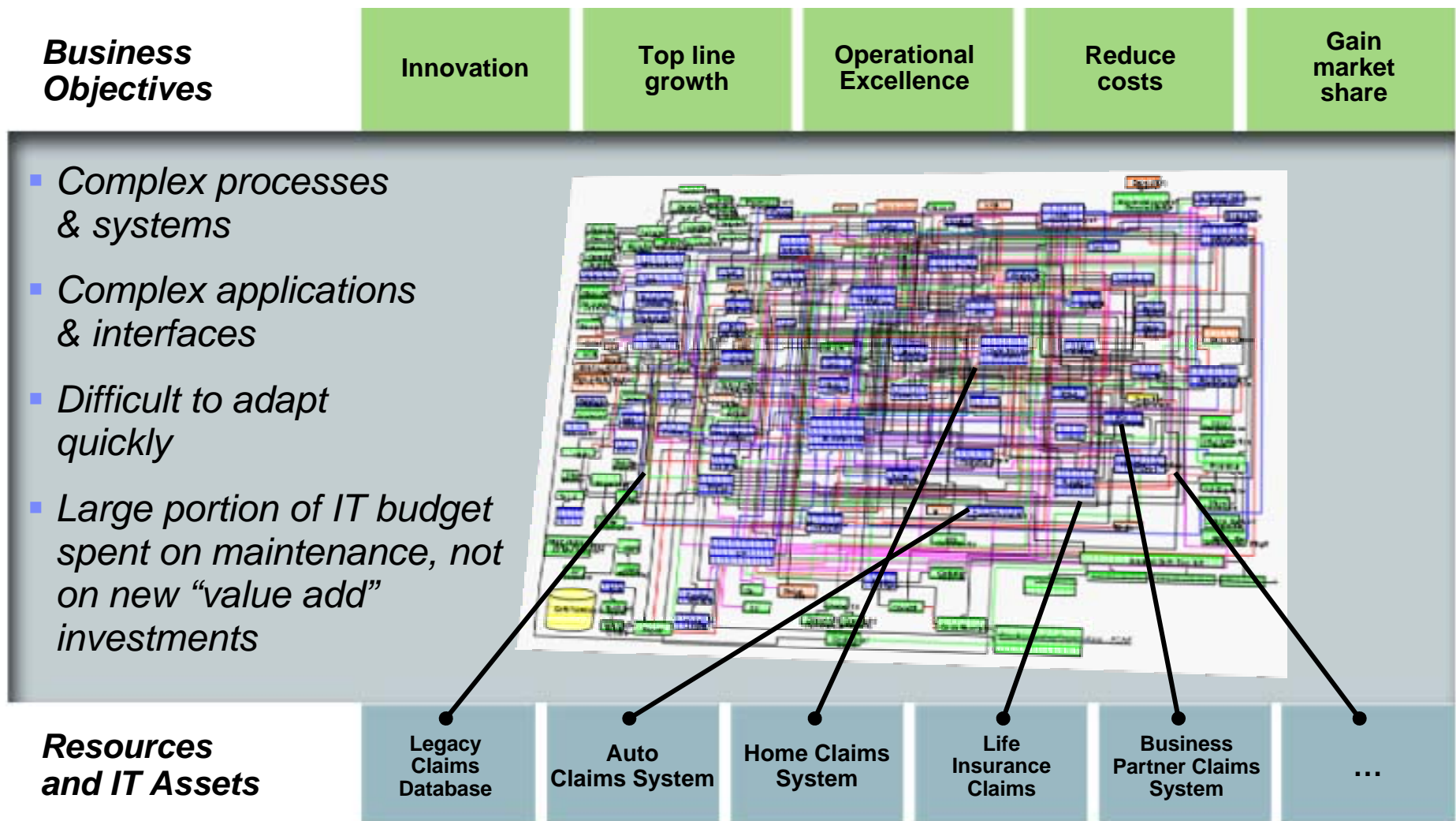
Globally aligning your strategy with business and IT execution



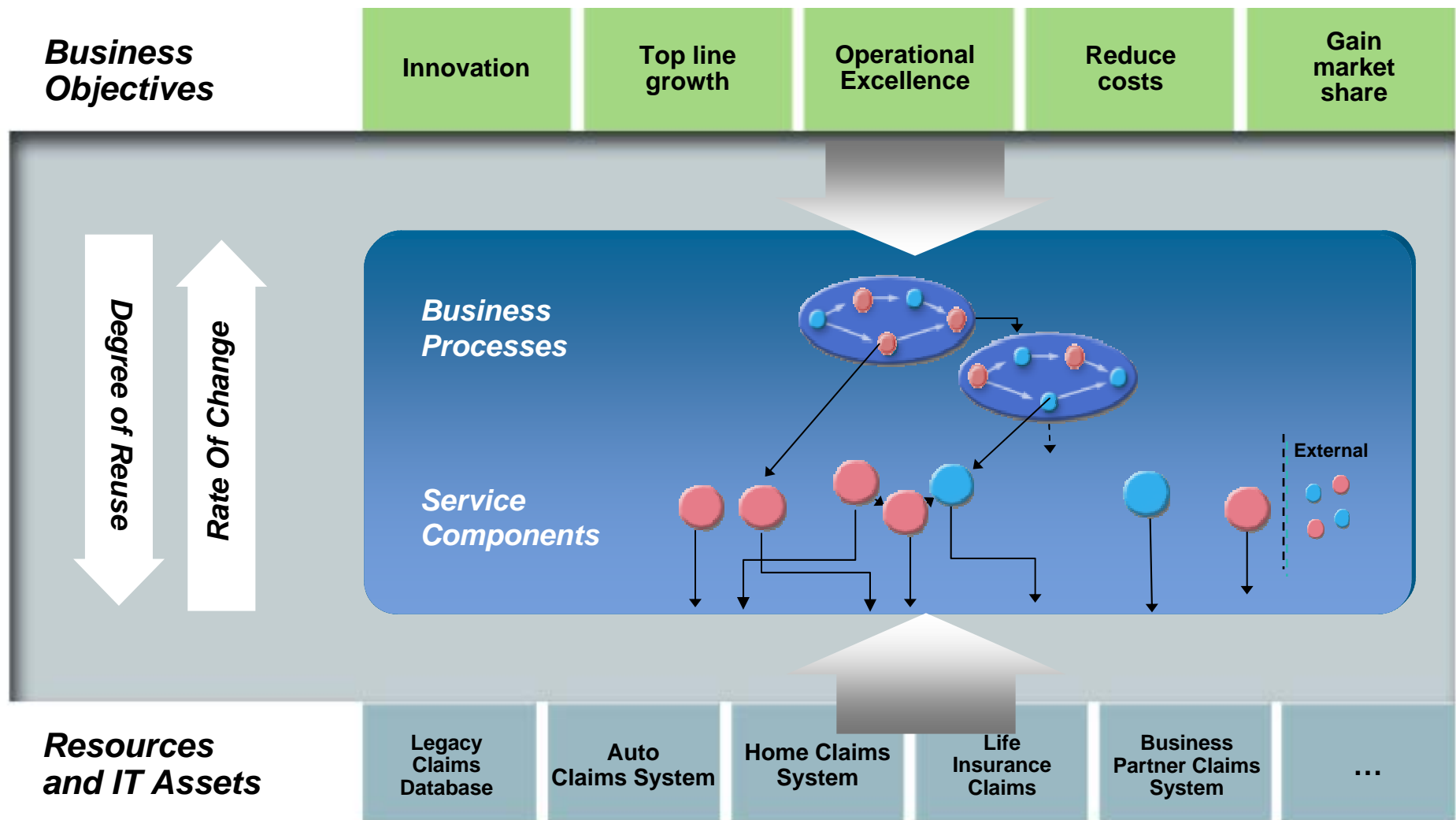
Customer Business Objectives



The Challenge



BPM Enabled by SOA Addresses this Challenge

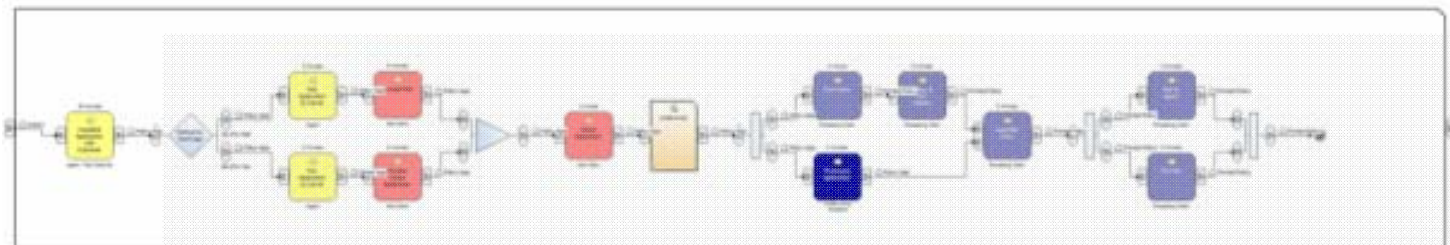


Business Process Management Enabled by SOA

A discipline enhanced by a flexible architecture

What is Business Process Management?

*A discipline combining
business expertise and technology capabilities
to accelerate process improvement and
facilitate business innovation*



Expertise that Delivers BPM

- Process Knowledge
- Industry Methods and Models
- Business consulting expertise

Technology that Enables BPM

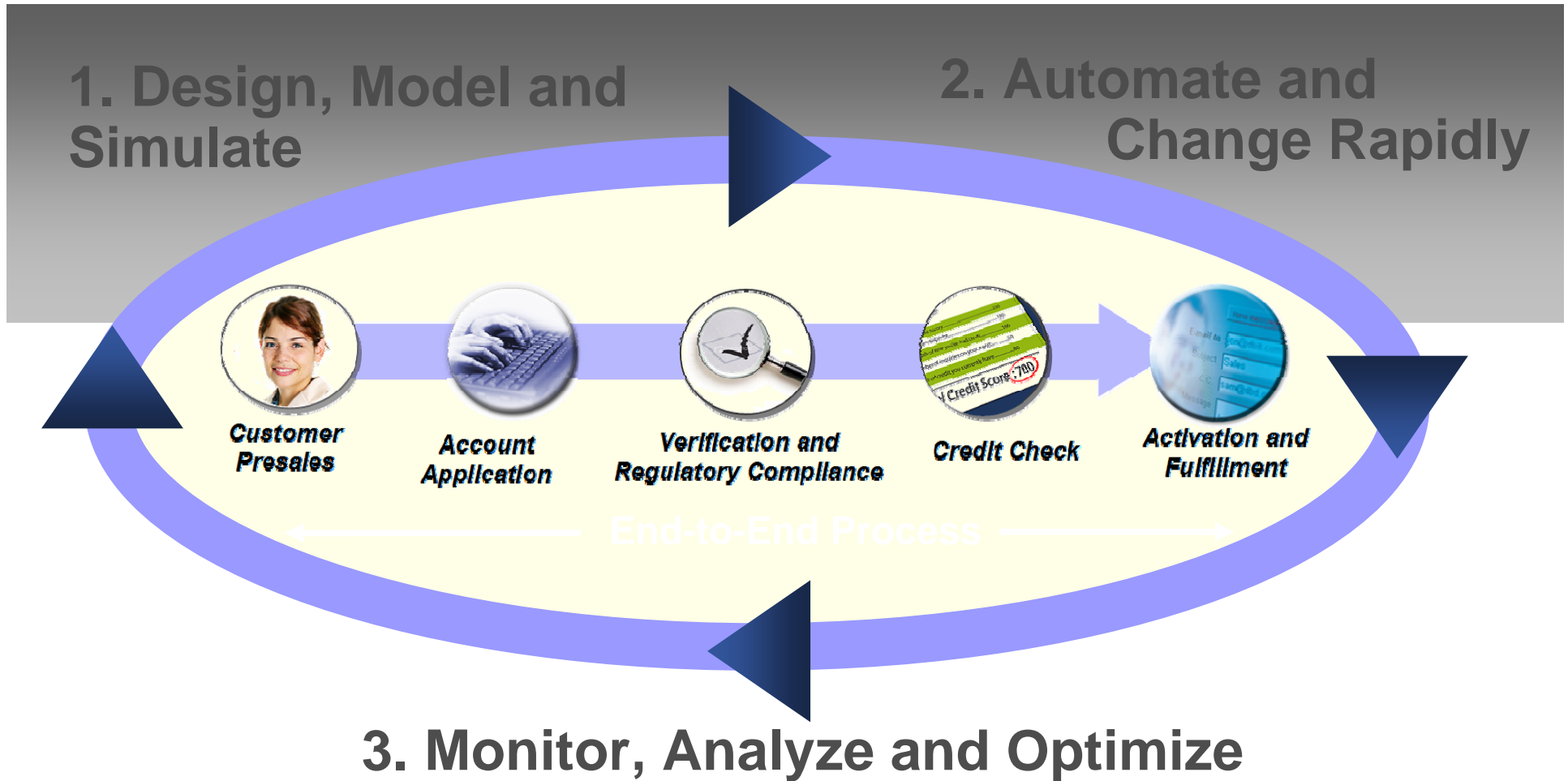
- Business Services
- Tools, Rules, Servers, Repositories
- Business Dashboards, Forms

What Can BPM Do For You?








- **Business Process Management can help you to:**
 - Create new business value and increase operational efficiency
 - Design, improve, manage, and optimize business processes
 - Understand and change operational processes quickly
 - Increase the agility and flexibility of your business
 - Achieve process integrity



BPM covers the entire lifecycle of your business processes



Representative Customer Scenarios

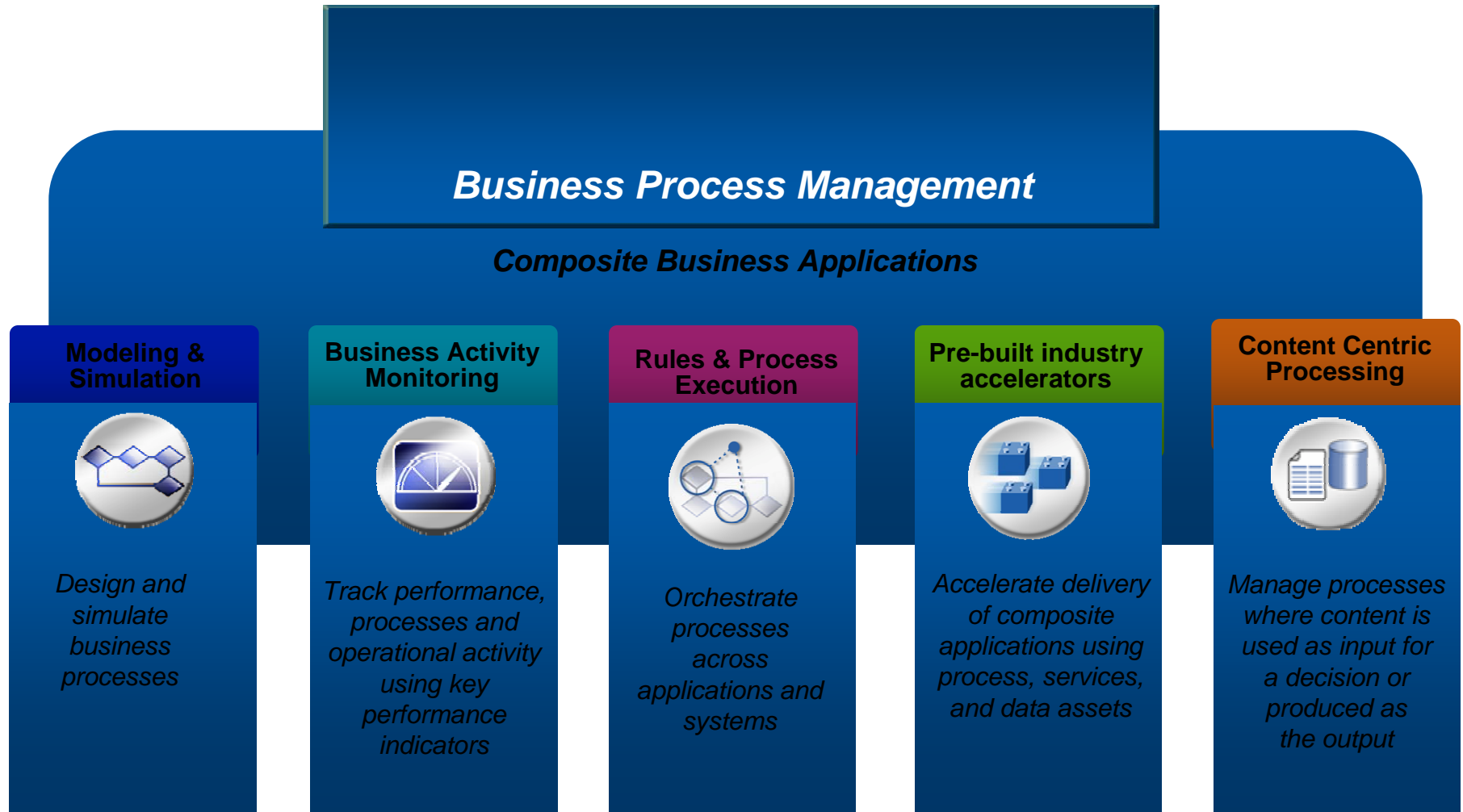
<p>End-to-End</p> <p>Strategic capability for the business - Unifying Large Heterogeneous Environments</p> 	<p>360 business view</p> <p>Enterprise View of Customers, Partners, and Employees and Data</p> 	<p>Regulatory Compliance</p> <p>Documentation and assurance for Compliance</p> 	<p>Self Service Capability</p> <p>e-commerce self service for increased revenue and customer satisfaction</p> 	<p>Business Process Automation</p> <p>Elimination of redundant process.</p> <p>Integrate systems of acquired company into common process.</p> <p>Single sign-on access to operational capabilities while avoiding SW redevelopment costs.</p> <p>Automated choreography of tasks, to replace manual systems</p> 
<p>Visibility BAM</p> <p>Monitor key business events across systems and processes</p> <p>Assurance that business operates as planned under change</p> 	<p>Partner Collaboration</p> <p>Collaborate during and across process activity for consistency, efficiency, and productivity</p> 	<p>Workflow/Human Task</p> <p>Handle exception flows and manage expiring requests without manual intervention</p> 	<p>Business Process Analysis</p> <p>Process model and analysis for documentation & design insight</p> 	



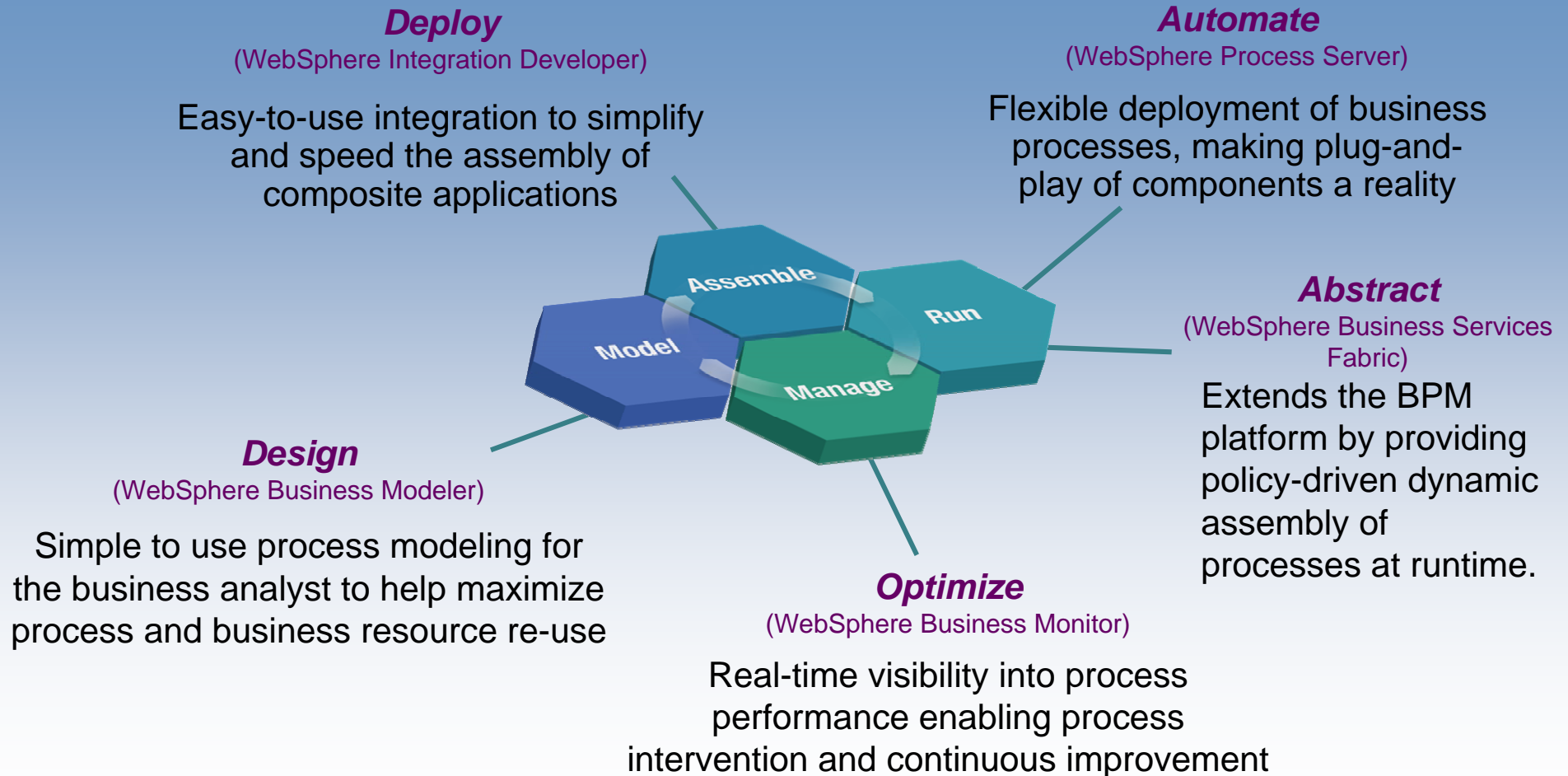
Business Processes Management Tooling



IBM provides a comprehensive BPM platform



End-to-end Process Capabilities for BPM



Three Critical BPM Success Factors

Manage Change
by modeling and
analyzing existing or
new processes.

Design

**e.g. Reduce the
inherent time and
cost of processes**

Respond Quickly
with processes based
on a flexible
infrastructure.

Automate

**e.g. Move compliant
processes into
production fast**

Enhance Efficiency
by analyzing activity to
ensure processes meet
objectives.

Optimize

**e.g. View and
understand real time
business facts for
rapid decision making**

Model: WebSphere Business Modeler 6.1

Business Level Modeling And Simulation

Model for innovation

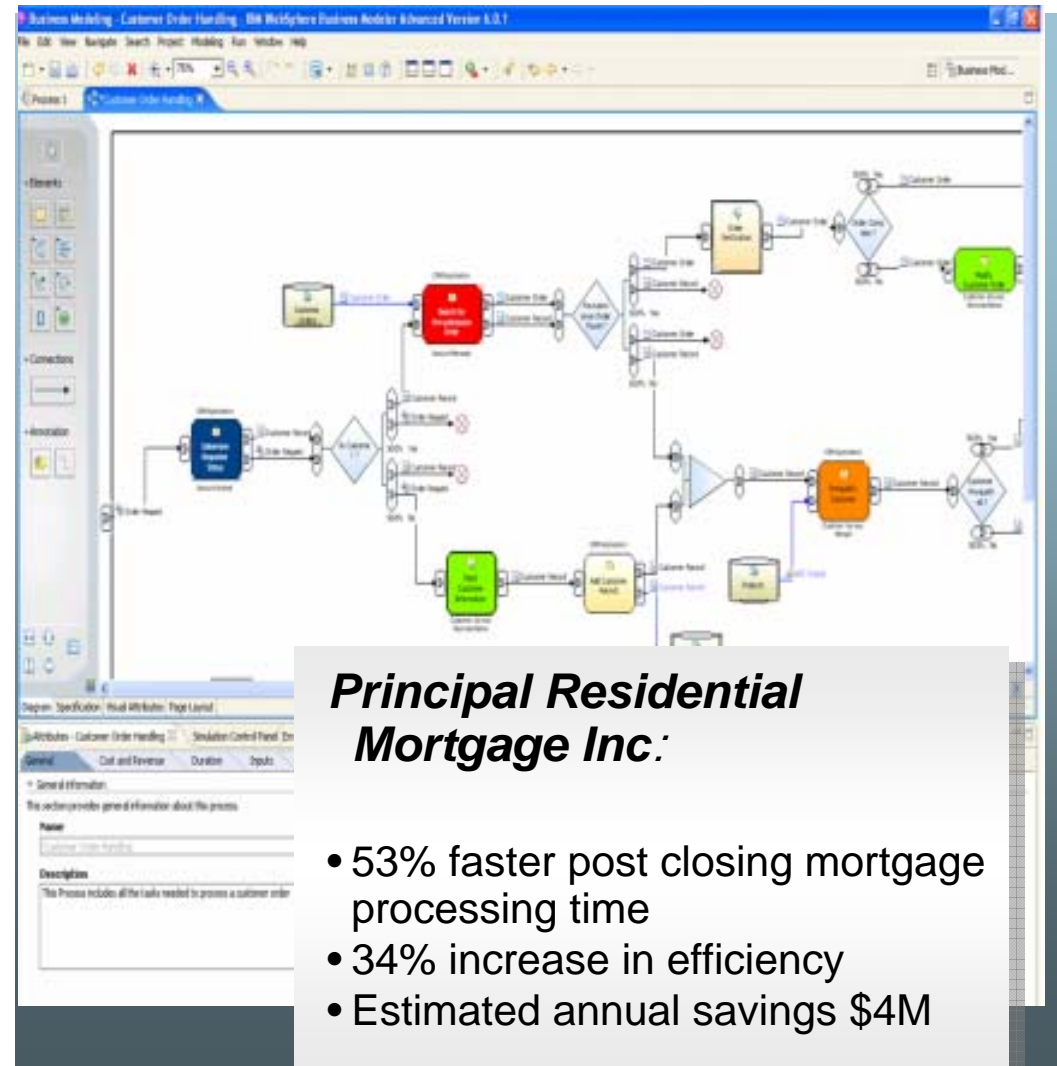
- Import models directly from Visio
- Hundreds of process templates available (IFW, IAA)
- Optimize all aspects of your business – set KPI's and metrics
- Collaborate with subject matter experts through the Publishing Server

Predict results before deployment

- Enhanced analysis and simulation capabilities. Fully understand impacts before deploying.

Clean hand-off to I/T

- Rapid and accurate deployment of your solutions
- Business modeling is the starting point for IT deployment (WID)



Principal Residential Mortgage Inc:

- 53% faster post closing mortgage processing time
- 34% increase in efficiency
- Estimated annual savings \$4M

Three Critical BPM Success Factors

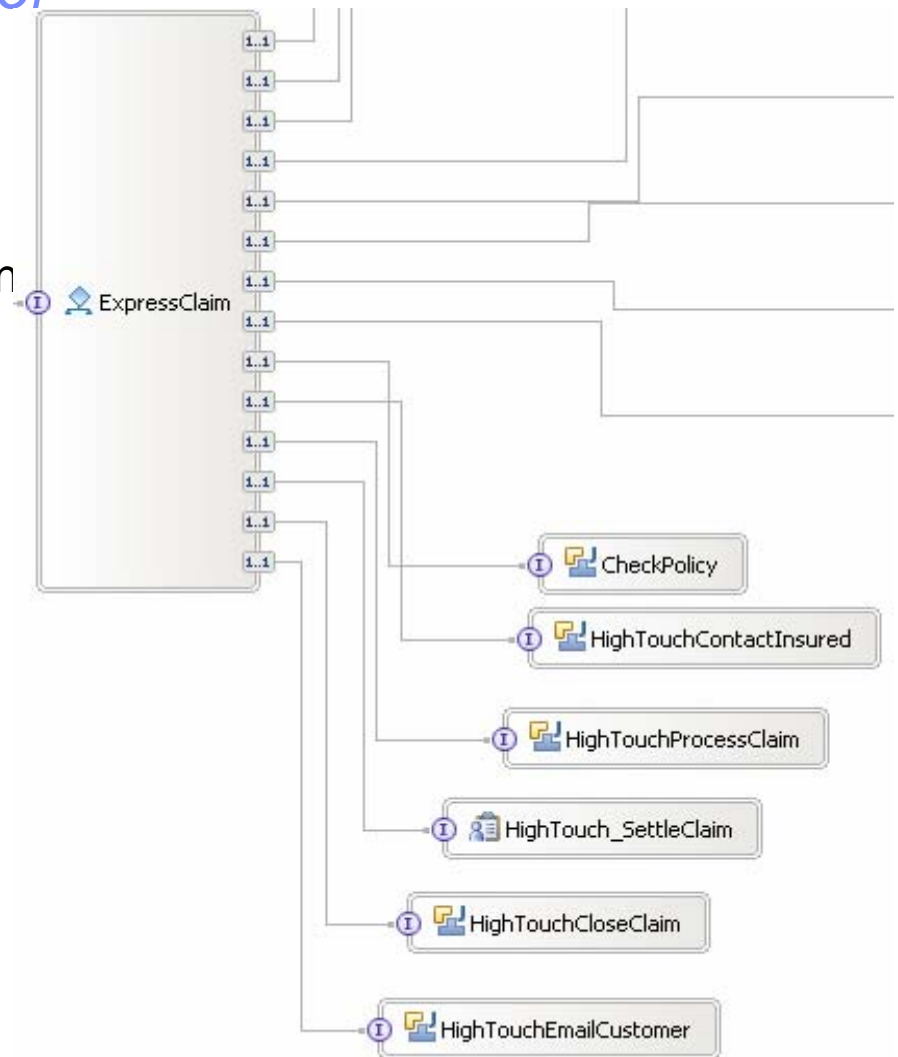
<p>Manage Change by modeling and analyzing existing or new processes.</p>	<p>Design</p>	<p>Business level modeling and simulation</p>
<p>Respond Quickly with processes based on a flexible infrastructure.</p>	<p><i>Automate</i></p>	<p>Robust, high performance, assured execution for the full spectrum of BPM</p>
<p>Enhance Efficiency by analyzing activity to ensure processes meet objectives.</p>	<p>Optimize</p>	<p>Business process monitoring and optimization</p>

Accelerated Solution Assembly

WebSphere Integration Developer

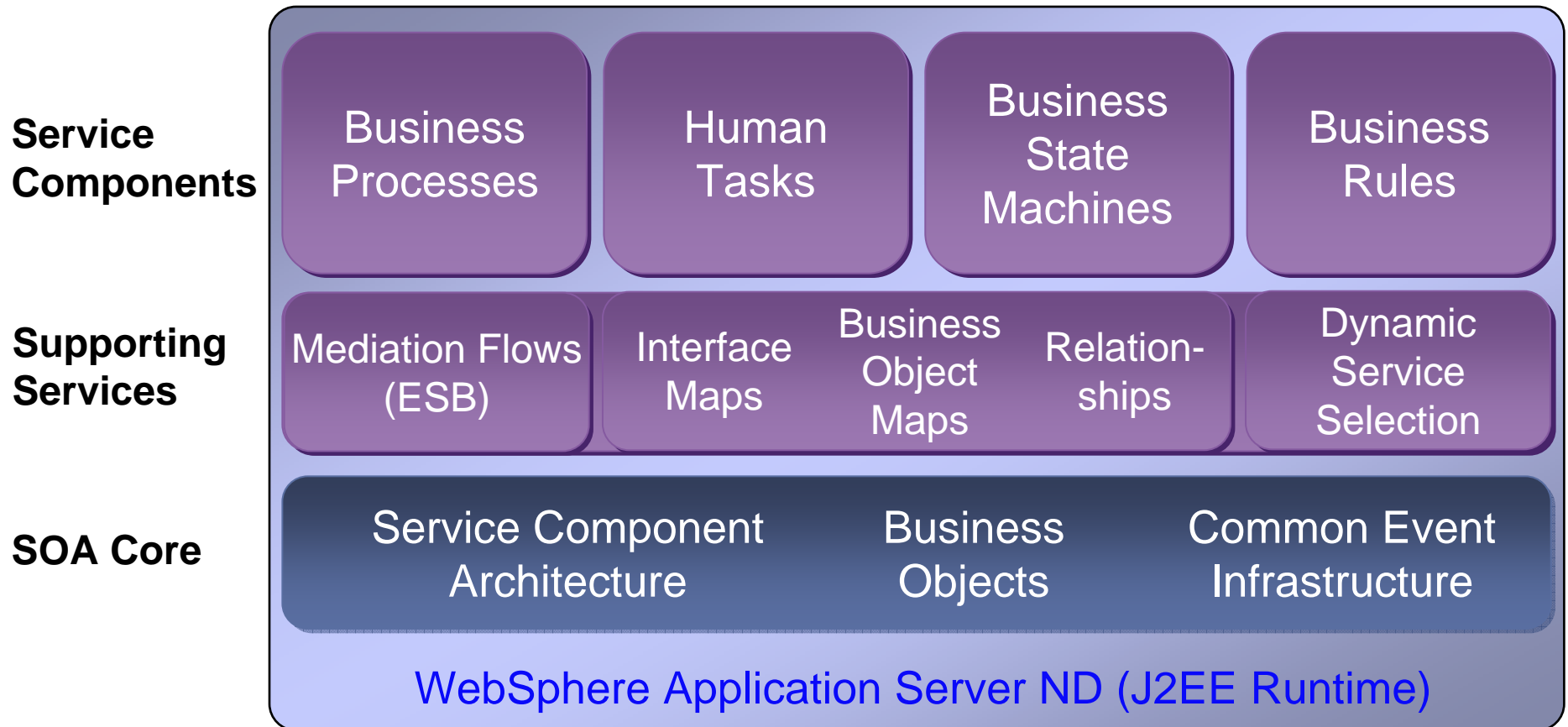
I/T

- **Complete toolbox for process automation**
 - Assembly Editor for solution assembly
 - All the tools you need for building solution components (Editors for BPEL, Business Rules, Mediations...)
 - One, easy to learn end user interface based on Eclipse
- **Architected for reuse, flexibility, agility**
 - Simplified service component interfacing through Service Component Architecture
 - Simplified business data access and mapping through Service Data Objects
 - Clear separation between process and application concerns through Common Business Object Models



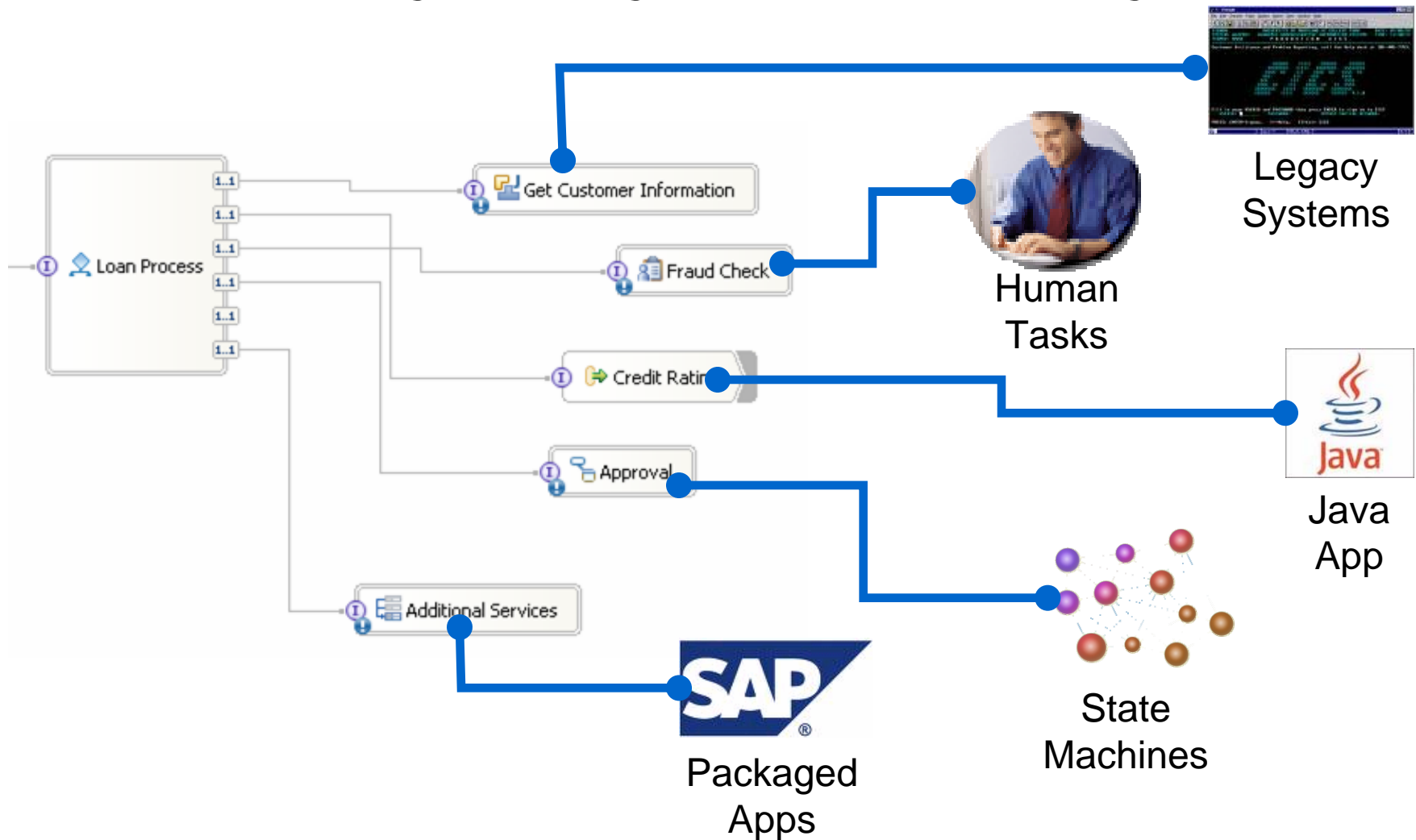
Deploy: WebSphere Process Server 6.1

Component Architecture



Simple integration of processes without coding

With SOA, leverage existing assets and achieve greater flexibility



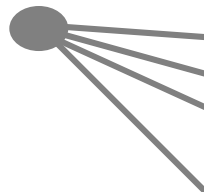
The Construct of a Business Process

Common Choreography enabled by BPEL

Accessible capabilities for fine-tuning business processes to address need for change dynamically

Constructing a dynamic process using WS-BPEL

Choreographed Services



... while service implementation details stay hidden:

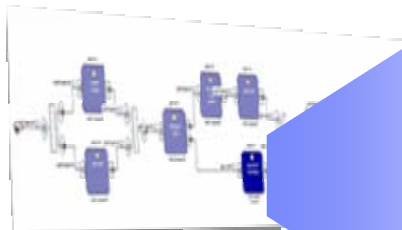
- *Human tasks*
- *Business rules*
- *ESB Mediations*
- *External services*
- *...*



- ✓ **Long-running**
- ✓ **Straight-through**
- ✓ **Compensation**
- ✓ **Transaction handling**
- ✓ **Event handling**
- ✓ **Fault handling**
- ✓ **Parallel paths**

Human Tasks as Service Components

Rapidly define interfaces for human tasks as you model



IBM is positioned in the leaders quadrant: *Gartner, Inc.*, "Magic Quadrant for Forms"

dealmanager
 #Morgan Chase application

Cancel Print
 Save & Close Print All

Go to Page...

ACH SETUP

IR ID Number: Client Name:
 IC Name: Client ID:
 Product Request Type: UCN: Client TIN:
 Client Address:

Primary Business Contact

Title:
 Last Name: Middle Initial(s):
 First Name: Telephone Number:
 Email Address: Fax Number:

Region: Please Select Addendum Target Live Date (mm/dd/yyyy)

Request Type: New ACH Client (Contract Required) Existing ACH
 Company ID
 Origin #

INTERNAL CONTACTS FOR OVER-LIMIT APPROVALS

Escalation Contacts (These individuals are contacted for over-limit approvals if the primary contact listed above is unavailable.)

	Primary Contact	Escalation # 1	Escalation # 2
Name:			
Work Phone:			
After Hours Home Phone:			
After Hours Cell Phone:			

ACH APPLICATIONS

ACH Applications: Direct Send JPMorgan ACCESS* Paysource Cash Manager TOC (Online) Cash Con
 PC Prompt Pay Microlink* Receiver Services CashNet/NDBNET/TMOL TOC (Windows)/BIM
 Insight Service Bureau First Cash/LMITS/SOFTI TONACH
 Integrity Test None First Windows/FW LITE None

TOC (Online)

	Company ID	Account Number	Bank ID
1			Please ▼
2			Please ▼
3			Please ▼
4			Please ▼
5			Please ▼
6			Please ▼
7			Please ▼
8			Please ▼
9			Please ▼



Lotus Forms embedded in WebSphere Business Modeler and deployable in WebSphere Process Server flows.

Business Rules as Service Components

■ Rule Set

- Consists of a set of if/then rule statements
- The developer defines
 - The rules (conditions and actions)
 - Which aspects can be modified at runtime
 - The user interface to modify rules
- Multiple actions can be triggered

▼ Rules

Name	Rule2
Template	Template 1
Presentation	If the assets are greater than <input type="text" value="2000000"/> and the liabilities are less than <input type="text" value="500000"/> , then the rating is <input type="text" value="A"/> .
Name	Rule1
Template	Template 1
Presentation	If the assets are greater than <input type="text" value="2000000"/> and the liabilities are less than <input type="text" value="1000000"/> , then the rating is <input type="text" value="B"/> .

▼ Templates

Name	Template 1			
Presentation	If the assets are greater than {0} and the liabilities are less than {1}, then the rating is {2}.			
Parameters	Index	Name	Type	Constraint
	{0}	var 1	double	None
	{1}	var 2	double	None
If	all of the following are true			
	<ul style="list-style-type: none"> ● info.assets > var1 ● info.liabilities < var2 			
Then	rating = var3			

■ Decision Table

- Rule Set in a table format
- One and only one action is triggered

▼ Decision Table

info.assets	> 500000	<= 500000		
info.liabilities	< 10000	>= 10000	< 10000	>= 10000
rating	"A"	"B"	"C"	"D"

Three Critical Success Factors

<p>Manage Change by modeling and analyzing existing or new processes.</p>	<p>Design</p>	<p>Business level modeling and simulation</p>
<p>Respond Quickly with processes based on a flexible infrastructure.</p>	<p>Automate</p>	<p>Robust, high performance, assured execution for the full spectrum of BPM</p>
<p>Enhance Efficiency by analyzing activity to ensure processes meet objectives.</p>	<p><i>Optimize</i></p>	<p>Business process monitoring and optimization</p>

Monitor: WebSphere Business Monitor 6.1

Achieve Real-time Visibility into Processes and Actionable Insight

Scorecards

Key Performance Indicators for business units

Collaboration

Work with teams to resolve situations

Business Alerts

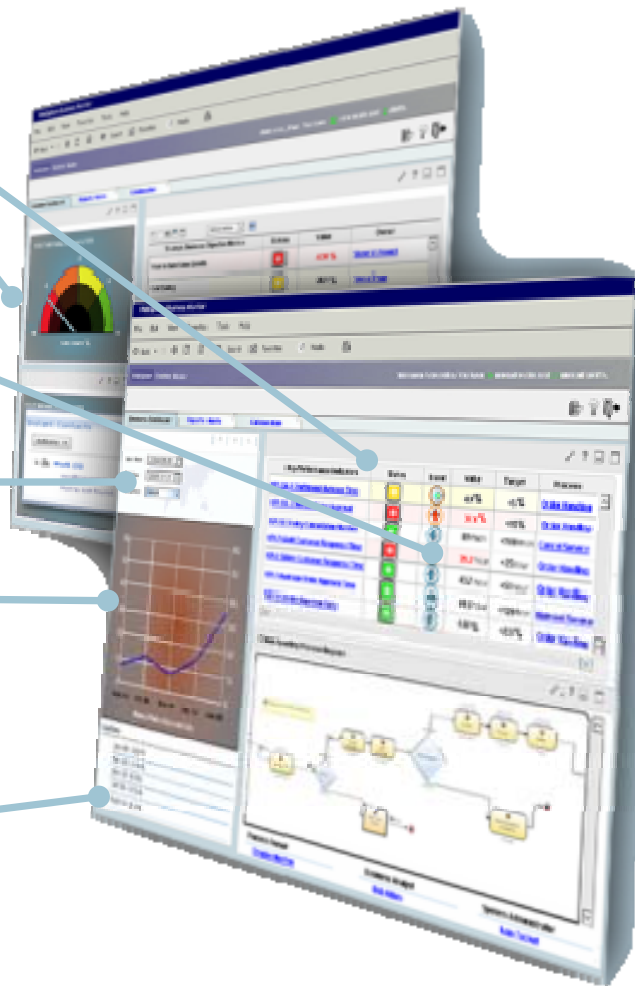
Notification of situations that require response

Reports & Analyses

Understanding trends by combining real-time performance and historical information

External Information

Information affecting performance



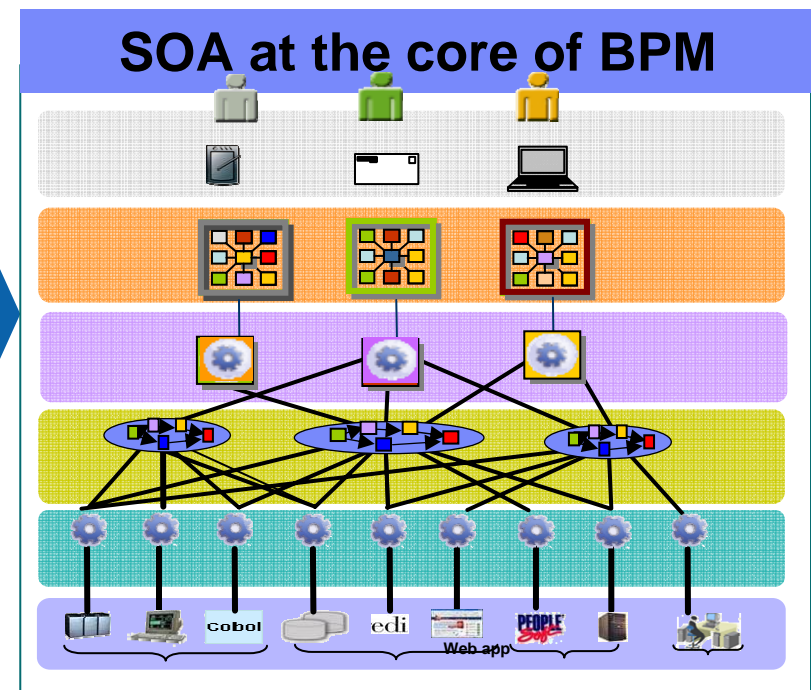
Abstract: Improve Your Agility with WebSphere Business Services Fabric 6.1

Dynamically composes and manages your business processes so they respond to changing business conditions.

Assemble, manage composite business applications with business services

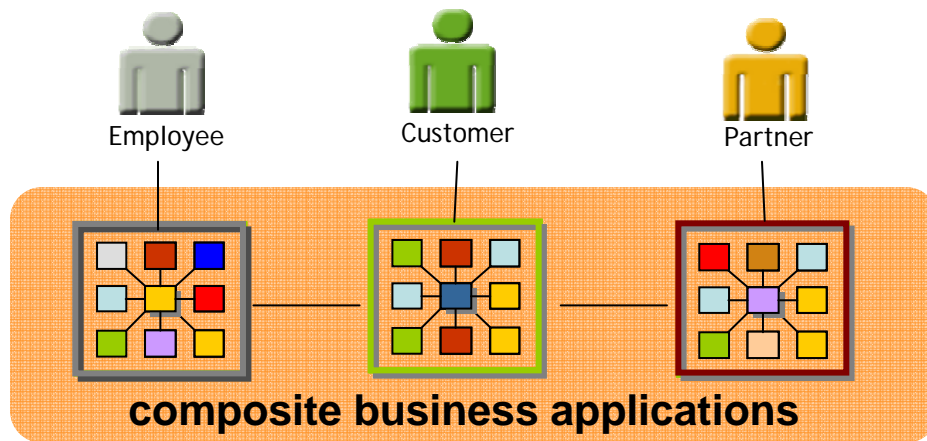
Easily modify, dynamically execute business services through business policies

Abstract from technical infrastructure instead of coding, redeployment



Optional Industry Content Packs

Speed time to deployment for composite business applications



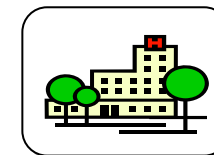
Telecom Operations



Banking Payments



Healthcare Payor US



Insurance Property & Casualty

- Contains pre-built SOA accelerators
- Based on industry & technical standards
- Speeds time to market
- Extensible and configurable
- Increases reuse of services



System z



Deploying on System z provides differentiated value

Enabling intelligent IT that works for your business



The IBM Mainframe.
Building on the past, defining the future.

Server Leadership: 40+ years in the making!

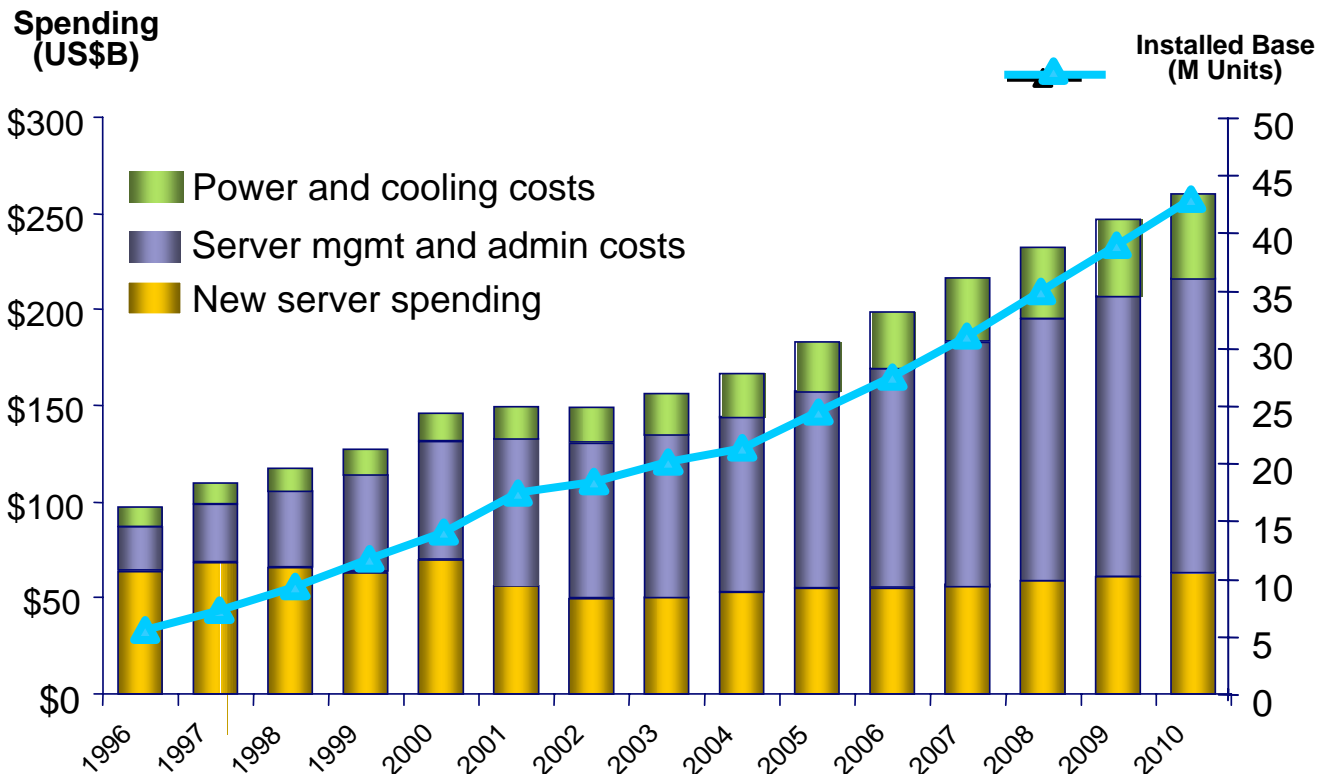
Mainframe utilization rates often exceed 80%, and are designed to handle sustained peak workload utilization of 100% without service level degradation.

- Application and data availability for business resiliency
- Rock solid security and privacy
- Massive scalability for non-disruptive growth
- Higher utilization and balanced system design
- Advanced virtualization
- Responsive, autonomic and intelligent workload management
- Open and industry standards
- Modernization of legacy applications
- Specialty engines lower cost of ownership
- World-class support

Management of a complex server infrastructure

The cost equation is changing

- Server proliferation continues, and costs rise along with the numbers
- The greatest cost item for servers is people management



Source: IDC, Virtualization 2.0:
The Next Phase in Customer Adoption,
Doc #204904, Dec 2006

1995

HW	= 65%
SW	= 14%
People	= 14%
Other	= 7%

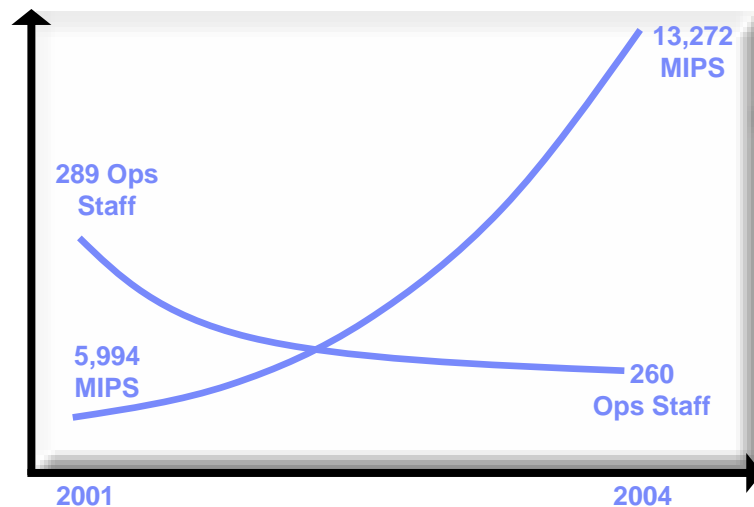
IT budget trends...

2004

HW	= 18%
SW	= 28%
People	= 45%
Other	= 9%

System z management cost decline as capacity grows

Volumes of workload processed have never been larger



Gartner

“Since we published our last high-level perspective of the ratio between MIPS and head count in 2001, the largest z/OS installations have more than doubled their ‘MIPS to head count’ ratio.”

L. Mieritz, M. Willis-Fleming – Gartner, 2004

Mainframe data center staffing levels have not significantly changed despite large increases in workload volumes.

First National Bank of Omaha

Their disparate computing environment was becoming extremely expensive, requiring FNBO to hire more people as more boxes were brought online. “I looked at our infrastructure in 2002 and saw we were growing servers at a rate of 30 percent per year. For every application I had, I needed another one to five servers behind that, for things like development and application and Web serving. And every 20 servers translates to another body to administer them.”

Ken Kucera, senior vice president and division head of FNBO Enterprise Technology Services

SOA and System z: creating value from your z assets while taking advantage of the platform strengths.

- **Designed for integration**
Designed for the consolidation of multiple diverse applications that must interact with one another against a common data source.
- **Flexibility**
SOA is designed for change and System z is a great platform for BPM with robust queue management and high I/O bandwidth for data movement
- **Reuse is 5x less expensive than re-write**
Bulk of enterprise transactions and data reside on System z today as candidates for reuse.
- **Co-location of workloads**
Co-location of applications and data for better response time, integrated security, high performance.
- **Highest Qualities of Service**
Availability, reliability, security, scalability, WLM, systems management, disaster recovery.



The Value of System z for SOA, BPM & Process Integrity

- **Strategic platform for mission-critical business processes, core business applications and data**

- **Proximity:** Fewer physical components and network connections result in less complex infrastructure
- **Integrity:** System-managed resource recovery and transaction coordination

- **Highest possible Qualities of Service**

- **Security:** Most stringent access control and asset protection
- **Availability:** z(ero downtime) /OS brand promise
 - 99.999% availability at the application and data level
 - Managed workload sharing toward achievement of business goals
 - Dynamic application of software changes
- **Efficiency:** Full utilization of system capacity with same class of service
 - Less people to configure, monitor and adjust workload
 - Best Total Cost of Computing
 - System z Application Assist Processors (zAAPs) to execute java workloads under z/OS



Customers turn to IBM for an unmatched breadth of BPM Software and deep BPM and Industry Expertise

#1 in BPMS market share*

Over 2850 BPMS customers in over 30 countries and growing...

Depth of BPM Expertise

- World-class BPM methodologies, process templates, industry best practices, and benchmarks
- BPM Competency Centers
- BPM value assessments and workshops
- 1000+ BPM consultant specialists
- 1,770+ systems integrator and reseller partners
- 4000+ ISV partners
- 10,750+ GBS/GTS practitioners
- 20+ BPM training and education courses

Breadth of BPM Software

- Collaborative business process modeling and simulation
- Best-in-class integration tools, technologies, and adaptors
- Comprehensive asset repositories for BPM-related reuse
- Dynamic, policy-based process customization using composite business application
- High performance, scalable process orchestration and execution engine
- Real-time activity monitoring and response
- Pre-built industry solution accelerators and industry models



“The IBM [BPM] software that we now use has encouraged better business practices throughout our organization, making our company as well as our customers more profitable.”



Why IBM?

Trusted, experienced guidance based on 5700 customers*



of Customers using our SOA offerings

TALKING

PUTS YOU IN A
CONFERENCE ROOM.

DOING

PUTS YOU AT THE SMART SOA
CONFERENCE IN VEGAS.



2008 IMPACT Get ready for the 2nd annual SOA conference. The defining SOA event is getting Smarter.
Get these days covered: April 6 – 11, 2008.

Join IBM and industry leaders at the MGM Grand in Las Vegas. Impact 2008 brings together real customer success stories, industry expertise and WebSphere technical training. Whether your business needs are simple or advanced, it's all the know-how you need to stop talking about enabling business flexibility and start doing it with Smart SOA. This five-day educational conference brings together the most cutting-edge information that you can put to work right away.

Customize your event experience by choosing tracks, technical labs, detailed discussion groups and seriously Vegas-worthy rock performances.

**Register Now
and save \$150. >**

Register online at

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IBM®

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