



| IBM SOA

“You're not going to break it,  
you're going to enhance it”  
Removing the apprehension of  
touching your existing business  
processes to prepare for the  
future with BPM

Smart  
SOA



## ***Key Questions:***

What is Business Process Management and why do I need it?

What IBM tooling is available to support BPM?

Will I break anything?

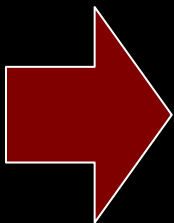
Why deploy on System z?

# 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**

Business Leaders know what's needed from their Business Processes to achieve their Objectives

- Support **innovative business models** and new **differentiated products and services**
- **Change rapidly** and continuously **optimize operational capabilities**
- Provide a **real-time operational view** with the ability to **intervene fast**





# Customer Business Objectives

Innovation

Top line growth

Operational Excellence

Reduce costs

Gain market share

**How can I...**



*...meet these business objectives?*

*...leverage my existing resources and IT systems?*

*...deliver at a pace and cost that beats my competition?*



Legacy Claims Database

Auto Claims System

Home Claims System

Life Insurance Claims

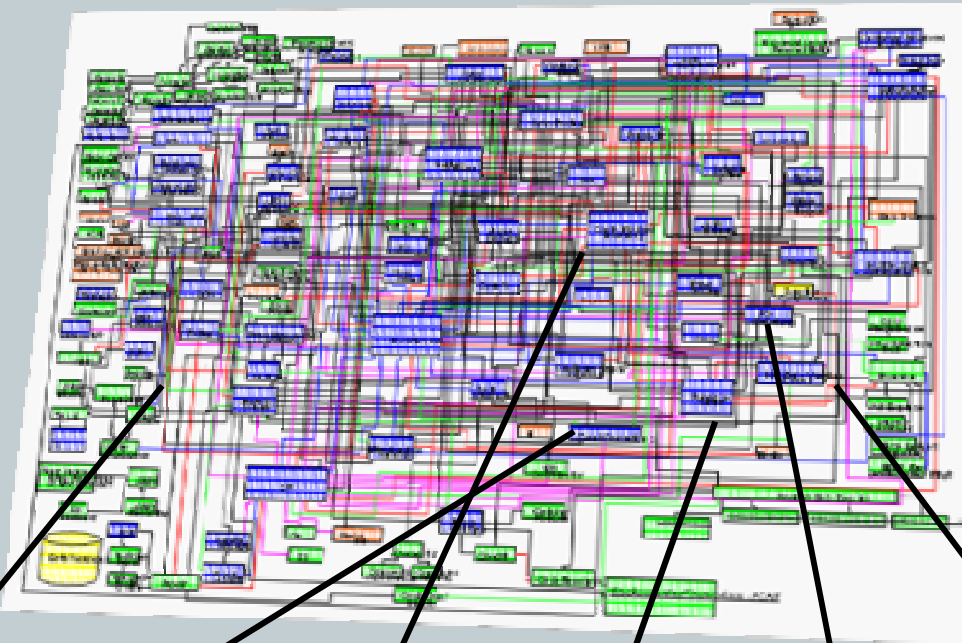
Business Partner Claims System

...

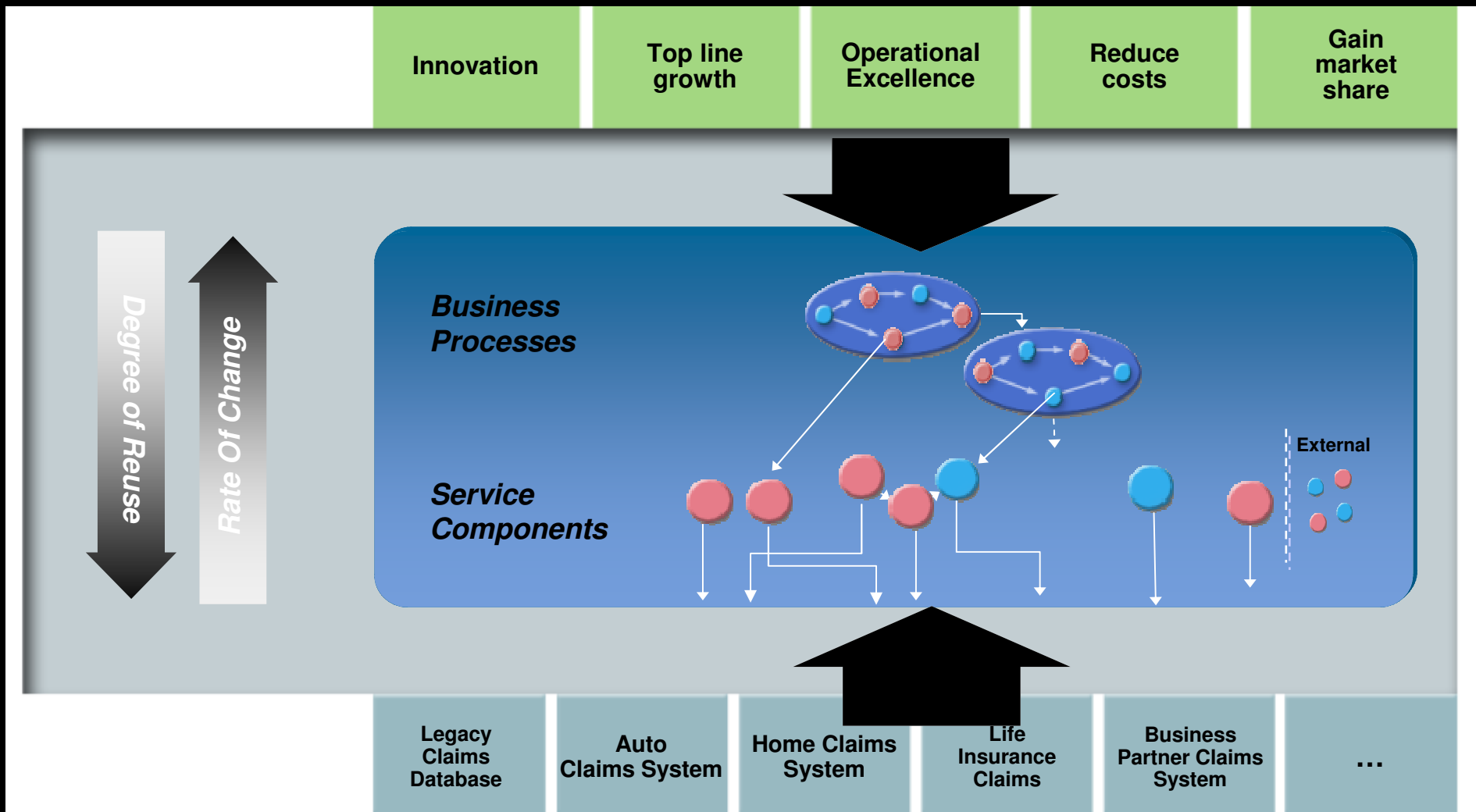
# The Challenge



- *Complex processes & systems*
- *Complex applications & interfaces*
- *Difficult to adapt quickly*
- *Large portion of IT budget spent on maintenance, not on new “value add” investments*

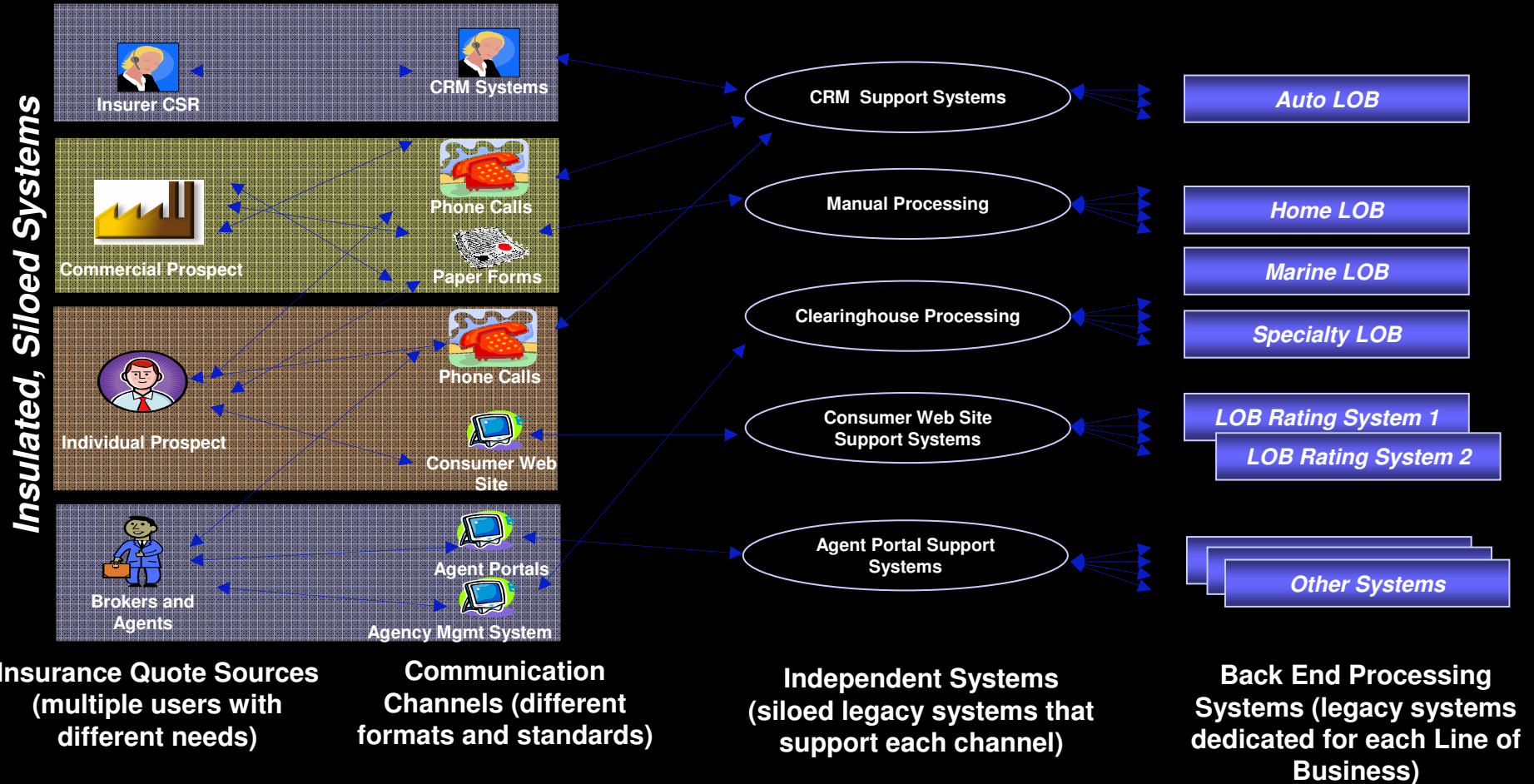


# BPM Enabled by SOA Addresses this Challenge



# BEFORE Composite Business Applications

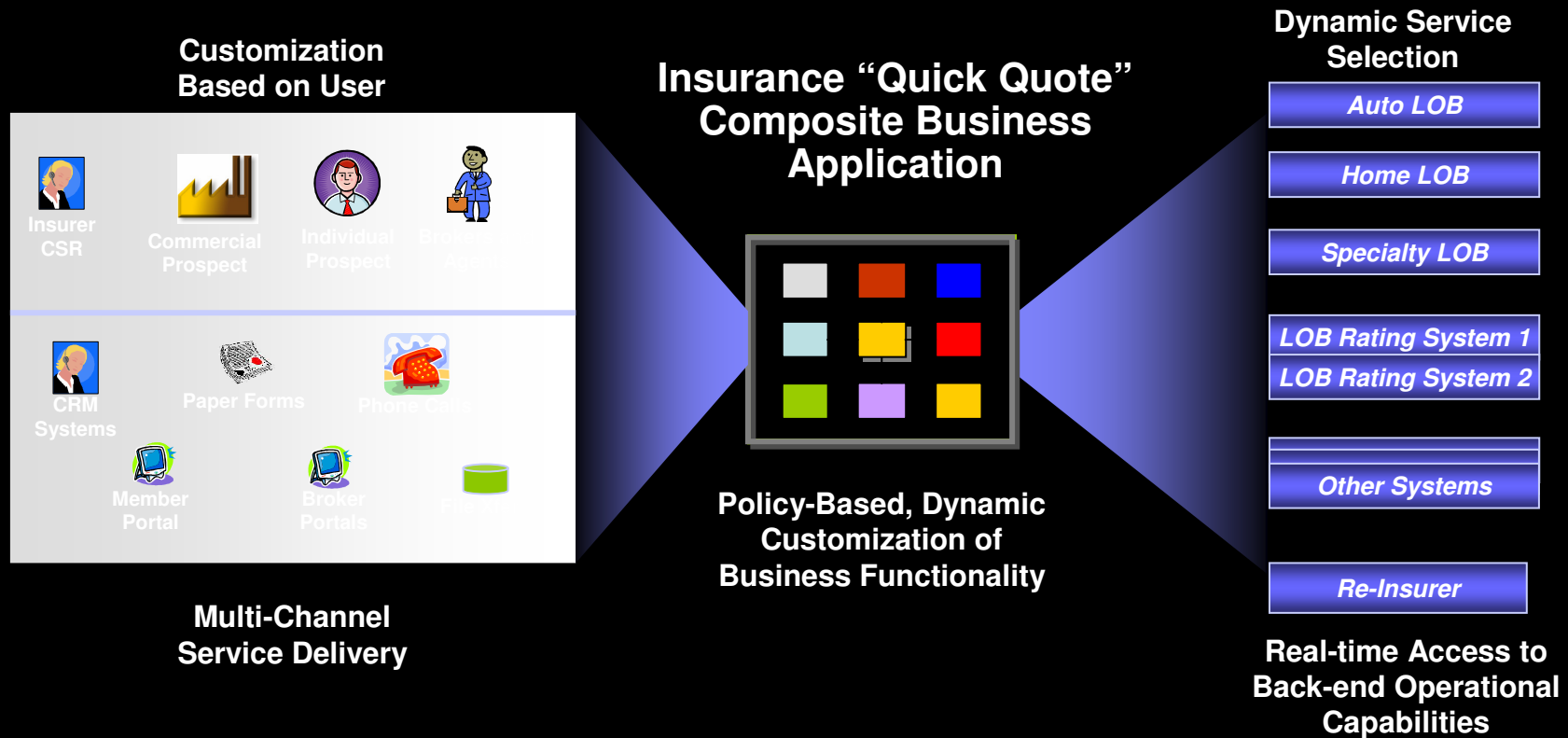
## Insurance Company's "as-is" Quote Process





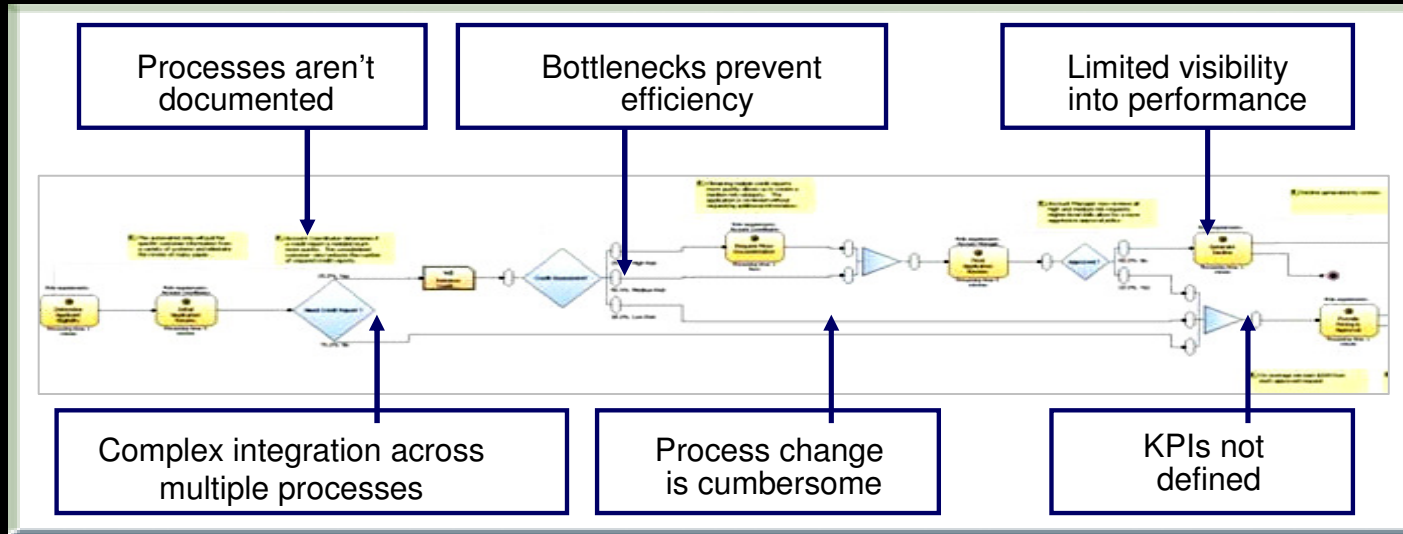
# AFTER Composite Business Services

## *Insurance Company's enhanced Quote Process*



# Business Process Management is a Discipline...

BPM solves common business challenges . . .



## BPM Includes

Integration	Modeling	Monitoring
Forms	<b>Software</b>	Workflow
	Rules Engine	

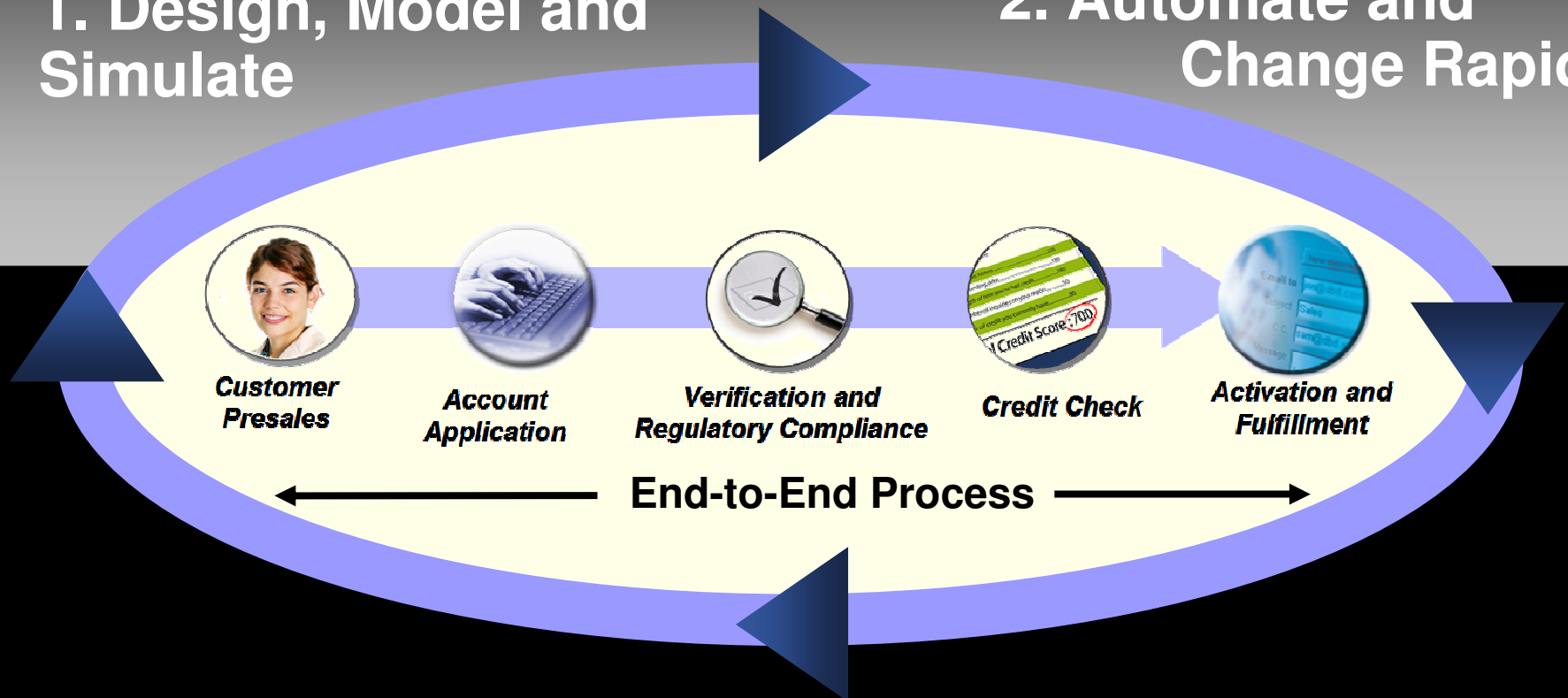
Models	Process Knowledge	Metrics
	<b>Expertise and Assets</b>	
Policies	Business Logic	Methodology

*BPM governs organizational and operational activities*

BPM covers the entire lifecycle of your business processes

1. Design, Model and Simulate

2. Automate and Change Rapidly



3. Monitor, Analyze and Optimize

# Common Business Problems Identified Across Industries

1. **Duplication of data entry**
  - From separate, unconnected legacy applications
  - Introduces human error
  - Results in loss of employee productivity and additional time to process info
2. **Using paper-based, sequential manual processes**
  - Requires additional time to process
3. **Human interaction required**
  - Sometimes necessary
  - Requires an escalation process
4. **Use of phone, fax or email**
  - Again requires human interaction
5. **Having to access unconnected multiple legacy applications for data**
  - Sequential process, requires additional time when data from one application is needed for the next

# Common I/T Problems Identified Across Industries

## 1. Unconnected legacy applications

- May result in duplication of data or inconsistent data
  - May require synchronization
  - May require human intervention
- Slows down business processes

## 2. Maintenance

- Numerous multiplatform servers
- Increased I/T expenses for:
  - OS or application upgrades
  - new application installations
  - licensing fees or purchasing expenditures
  - system down time, application availability & customer satisfaction



# What are the solutions?

Each of these business (B) and I/T (I/T) problems can be resolved. Reviewing customer activities, we observe the following:

Problem	Solution
(B, I/T) Sequential data processing & human input, using phone, fax or email (B) Takes a long time to process a customer application	Use a business rules engine to make decision instead of requiring human intervention . Create a portal application eliminating the need for companies to retrieve information over the phone or through the mail
(B) Paper-based processing	Use web-based forms processing for electronic data processing
(B, I/T) Accessing multiple applications to obtain all the necessary data	Use a front-end web or portal application to obtain data from integrated back-end systems
(I/T) Duplicate business logic	New solution design implementing reusable components
(I/T) Numerous legacy servers & applications from acquisitions & mergers	New front-end application which obtains all necessary data from legacy systems
(I/T) Servers at regional offices – maintenance issue	Use a front-end web or portal application at the regional office which connects to the company mainframe
(B) Inefficient use of company employees	Automate and reduce human intervention with applications and computer systems
(B, I/T) Inflexibility of current system	Using IBM WebSphere middleware, a new application which allows the customer to continuously update and add to its services and offerings quickly and efficiently.

## Banca Carige (Italy)

**Challenge:** Outdated IT foundation (OS/2, TCP/IP) needed to be transformed into a multi-channel, internet-enabled and services-ready integration technology platform.



**Solution:** Introducing BPM and SOA handling all incoming requests from various channels, integrating and managing IBM CICS and DB2 to perform full business processes.



**Company benefit:** Implementing a flexible and secure IT infrastructure to support the bank's branch transformation initiative.



**Employee benefit:** Same infrastructure for bank employees as well as customers. Now, every user has a clear view depending on his role and profile, to better perform all appropriate business transactions quicker.



**IT benefit:** Reuse of components, reducing time for enlargements and more integration by better design.

## Impol (European based enterprise)

- **Manufacturing Industry (aluminium)**
- **Transformed existing applications into reusable services**
- **Deployed WebSphere Process Server as the runtime engine**
- **Used WebSphere Business Modeler to create KPIs, alerts and business rules**



Business led BPM helps property and casualty insurer grow revenues

*Policies used to customize support services for a diverse independent agent community*

## With IBM BPM

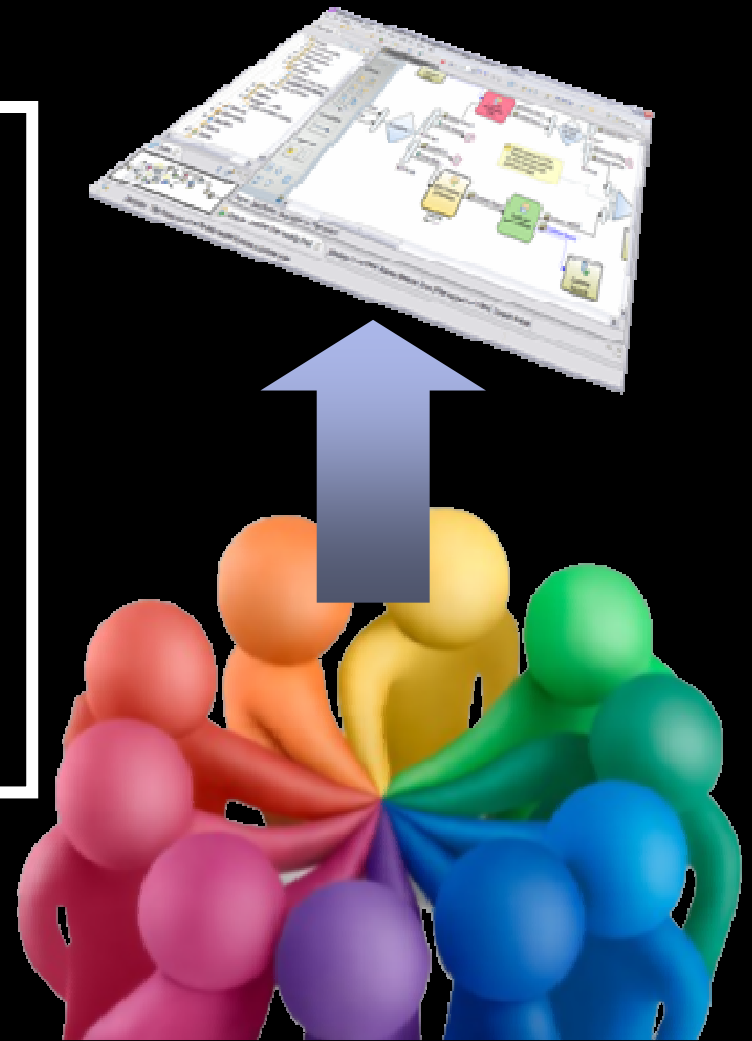
- New quote system launched in 7 mo. to 32 states
- Delivered 100X quotes per month target
- Expected revenue (GPW) increase from 3 to 4%
- New billing solution launched in 3 months
- 40% reduction in call center volume



# Getting Started: The Collaborative Change Imperative

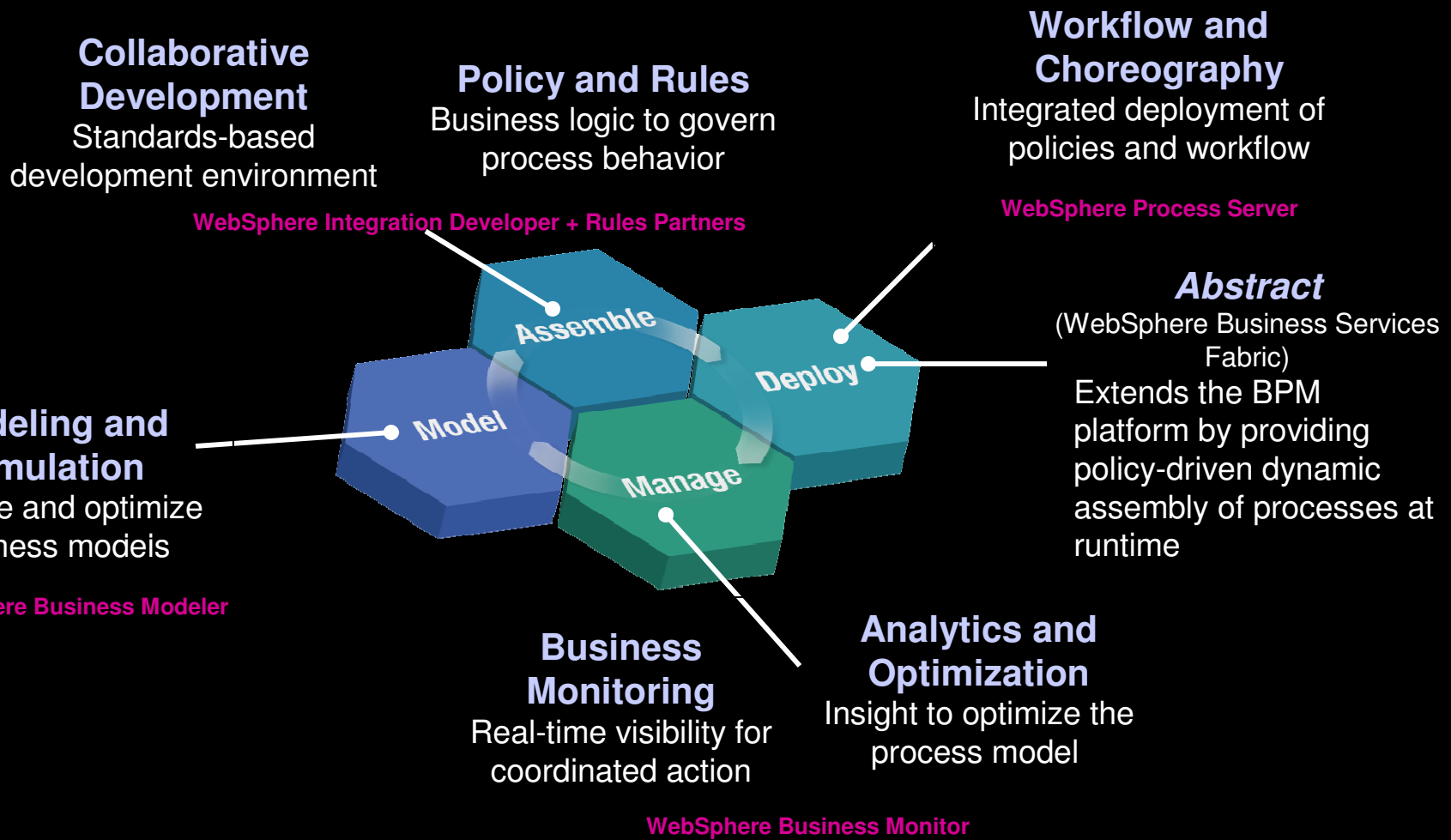
- Collaborate with Subject Matter Experts
- Support diverse design tools
- Predict and optimize outcomes
- Leverage best practices, metrics and real-time process performance data
- Maintain consistency of process models

Business process modeling, simulation, analysis  
Industry business process models, KPIs, KAIs



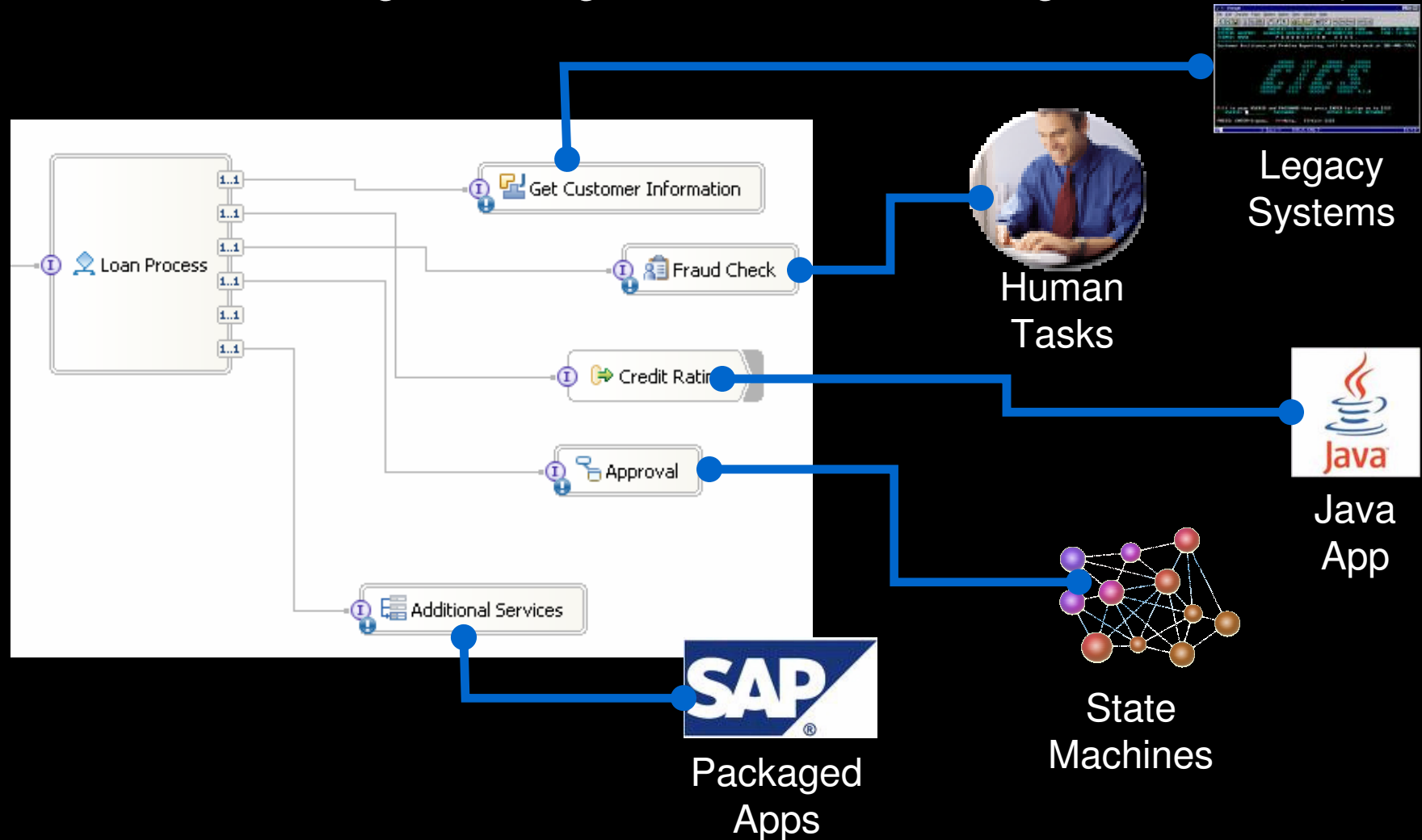


# IBM's BPM Features and Associated Toolset



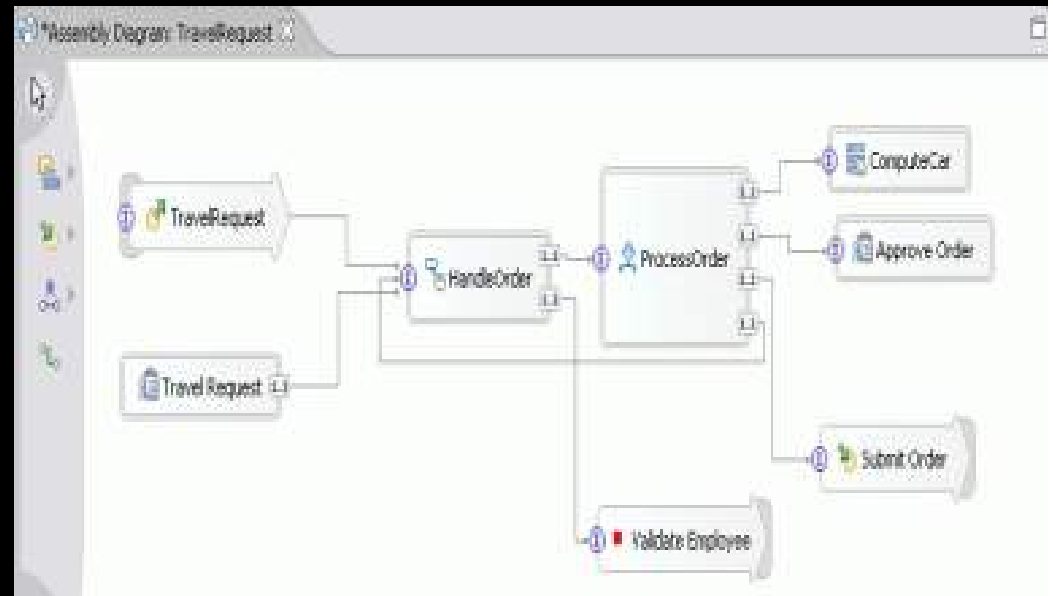
# Simple integration of processes without coding

*With SOA, leverage existing assets and achieve greater flexibility*



## Integrate: WebSphere Integration Developer *Accelerated Solution Assembly*

- The complete toolbox for building composite applications
  - An Assembly Editor for wiring solutions together
  - All the tools you need for building solution components (Editors for BPEL, Business Rules....)
  - One, easy to learn user interface based on Eclipse
- Architected for reuse and flexibility
  - Simplified component interfaces
  - Plug-and-play solution components



***One Tool, One set of skills, Many uses***

*Integrating services across the enterprise: Processes, Mediations, Adapters, Components*

## Deploy: WebSphere Process Server

### *The Engine Room of Business Process Management*

- **Robust execution of business processes**

- Reliable, scalable, secure, open standards
- Single integrated runtime for all SOA based process automation

- **Supports all aspects of process integration**

- Process flows
- Business rules
- Human steps
- Forms
- State machines

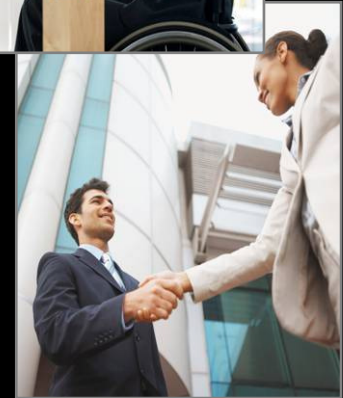
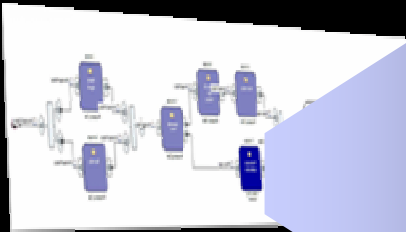


- **Rapid process change ensuring business agility**

- Reuse existing services that you already have and create new services for future use.
- Build process flows without knowing where the information is coming from (late binding of services)
- Business rules control the execution sequence of the process and can change dynamically

# Human Tasks as Service Components

## Rapidly define interfaces for human tasks as you model, interact with them during process execution



dealmanager  
IBM Manager Client application

Go to Page... [Cancel] [Print] [Save & Close] [Print All]

Page 1

### 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
- PC Prompt Pay
- Insight
- Integrity Test

JPMorgan ACCESS\*  Paysource  Receiver Services  Service Bureau  None

\* Application ID

9000002198 9000006332-GH 9000007344-TX  
 9000002198 9000006331-GH 9000004736-WI  
 Cash Cos - 0016580644 9000007347-TX Same Day  
 LMTS - 9000002932 9000006792-WV 9000004540-IN  
 Firstcash/SOFTI - 9000004738-WI 9000006334-GH  
 9000002933 Next Day 9000007348-TX  
 Balance File - 9000002796 9000008366-AZ 9000004739-WI  
 Unbalance File - 9000002797 9000008346-AZ/UT/CO  
 9000004897-IL 9000004894-IL 9000006293-OH/KY/WV  
 9000004895-IL 9000004537-IN 9000007069-TX/OK/LA  
 9000004839-IN 9000006743-KY 9000004938-WI/IN/IL

h81 Channel Products

- Cash Manager
- CashNet/NDNET/TMOL
- First Cash/LMTS/SOFTI
- First Windows/FW LITE
- TOC (Online) Cash Con
- TOC (Windows)/BIM
- TONACH
- 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

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

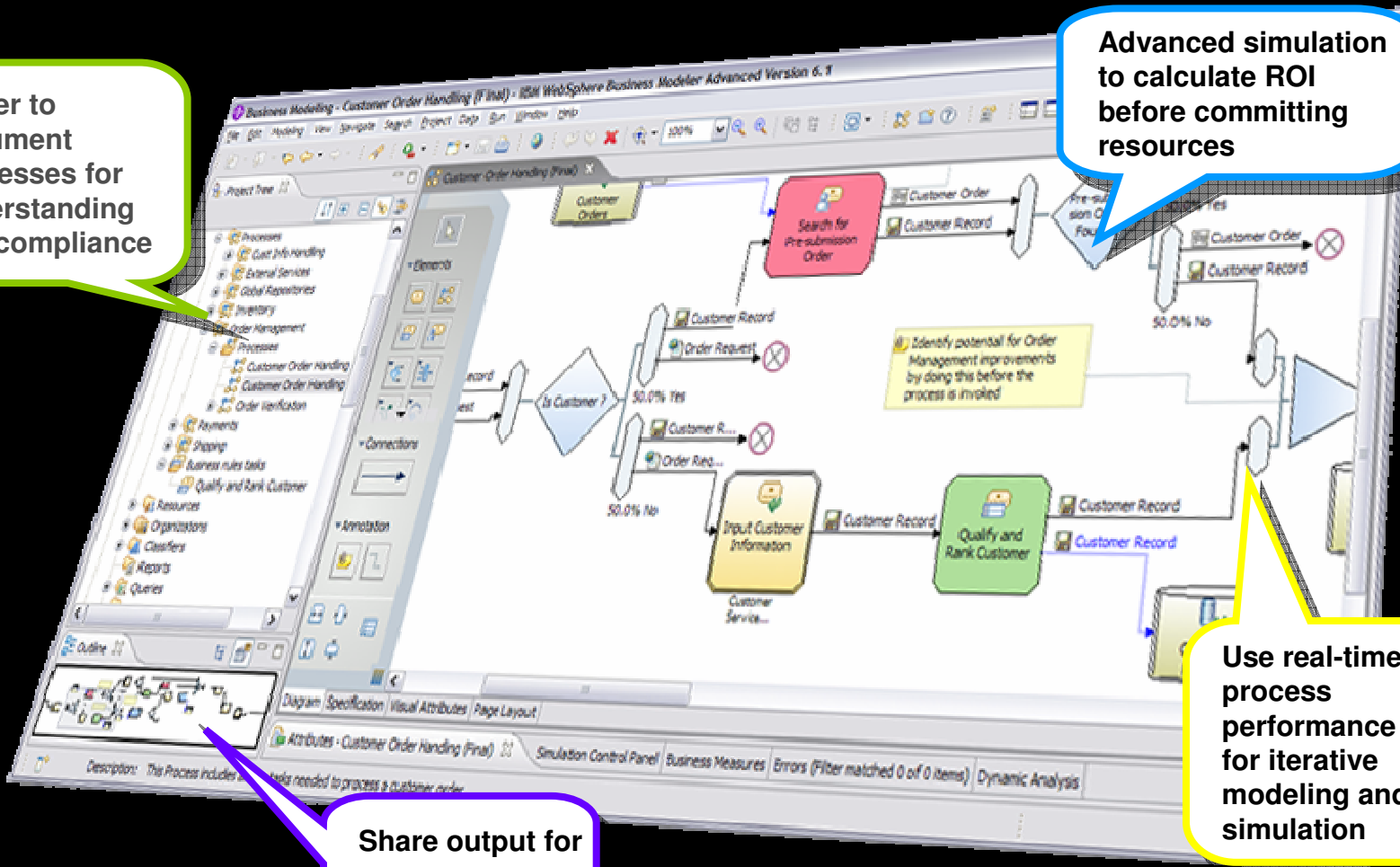
Lotus Forms embedded in WebSphere Business Modeler and deployable in WebSphere Process Server flows.



# Collaborative design and simulation for strong execution

Easier to document processes for understanding and compliance

Advanced simulation to calculate ROI before committing resources



Share output for training and collaboration

Use real-time process performance data for iterative modeling and simulation

## Model: WebSphere Business Modeler *Business Level Modeling And Simulation*

### Designed for business users

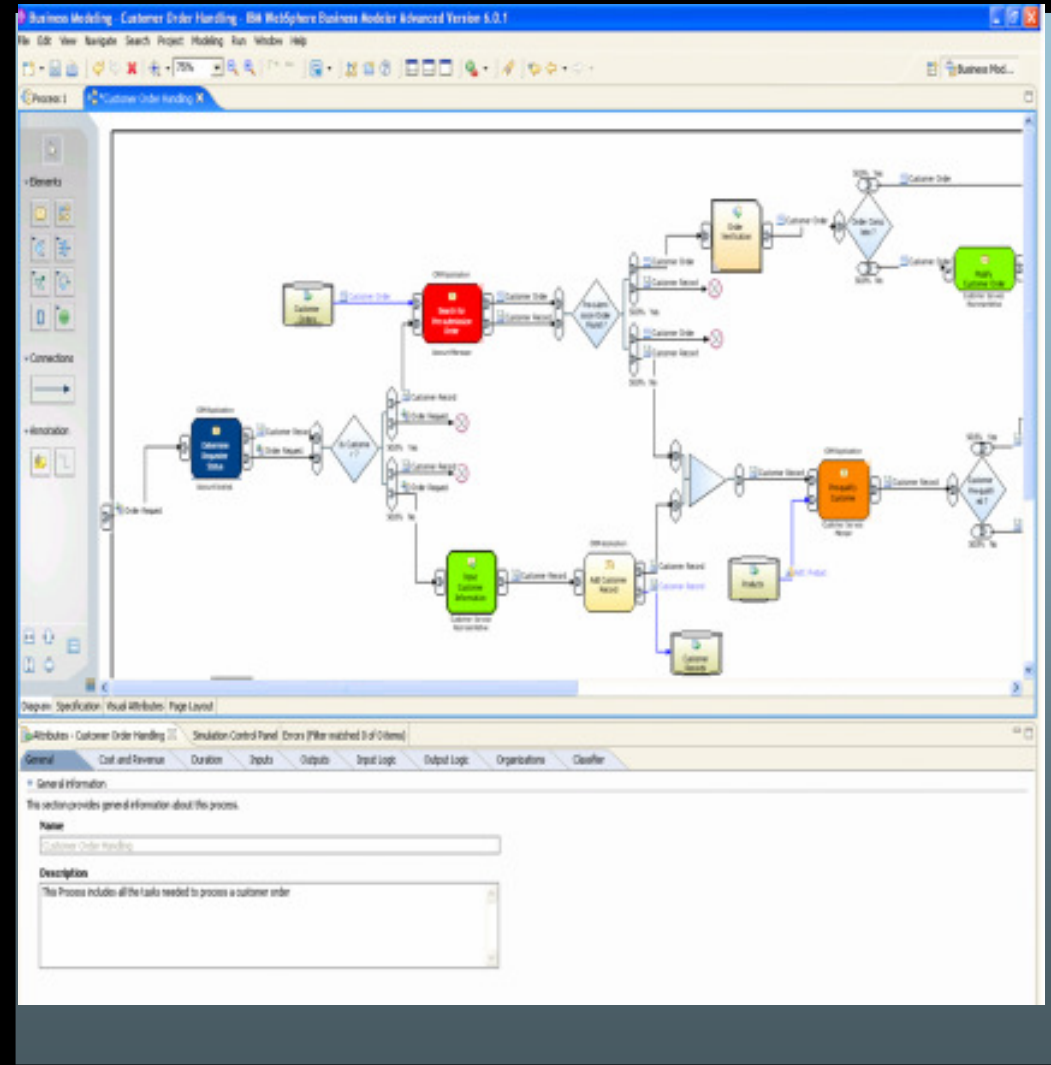
- Import models directly from Visio, MS Word, FileNet P8
- Hundreds of process templates available (IFW, IAA)
- Optimize all aspects of your business – set KPI's and metrics
- Collaborate with subject matter experts through the Publishing Server

### Model, simulate, and analyze

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

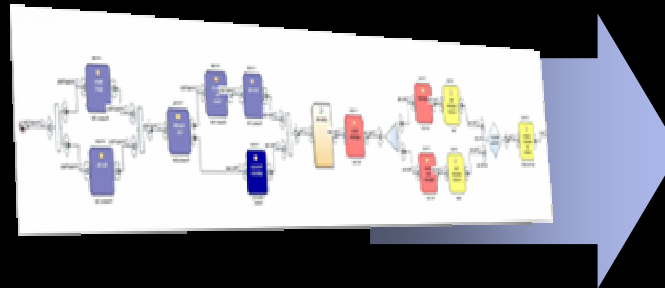
### Clean hand-off to I/T

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

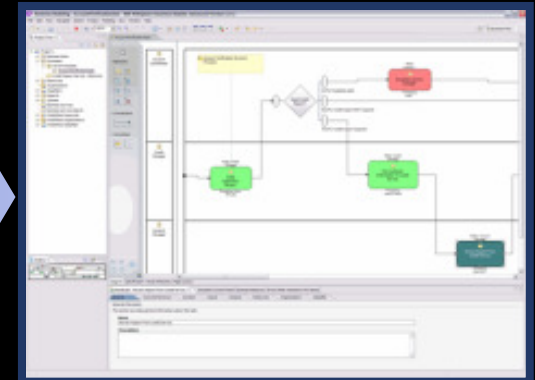


# Model, analyze and simulate business processes

*A better way to understand how your business operates*



**Model for innovation**



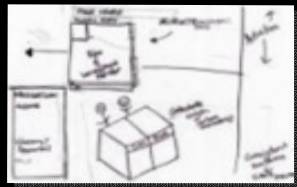
**Predict results before deployment**

- Advanced Simulation Capabilities
- New Interoperability – FileNet P8, MS-Word
- Traceability to easily maintain model consistency

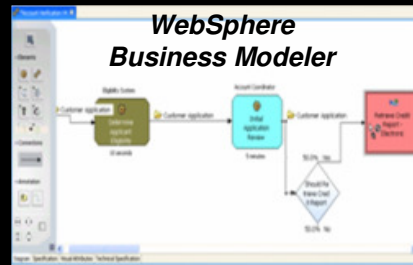
IBM is positioned in the leaders quadrant: *Gartner, Inc.*, “*Magic Quadrant for Business Process Analysis Tools, 2H07-1H08*”

**WebSphere Business Modeler 6.1**

# Use Simulation to Identify High Impact Process Changes



Existing Processes



Run simulation to estimate savings and support the business case for the process change

- Define and optimize processes thru simulation
- Justify process changes through ROI calculations
- Understand impact of process changes to the business
- Example: Simulation results showing areas of greatest opportunity

## 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

## 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



# Monitor: WebSphere Business Monitor

*Achieve Real-time Visibility into Processes through customized dashboards*

## Scorecards

Key Performance Indicators for business units

## Collaboration

Work with teams to resolve situations

## Business Alerts

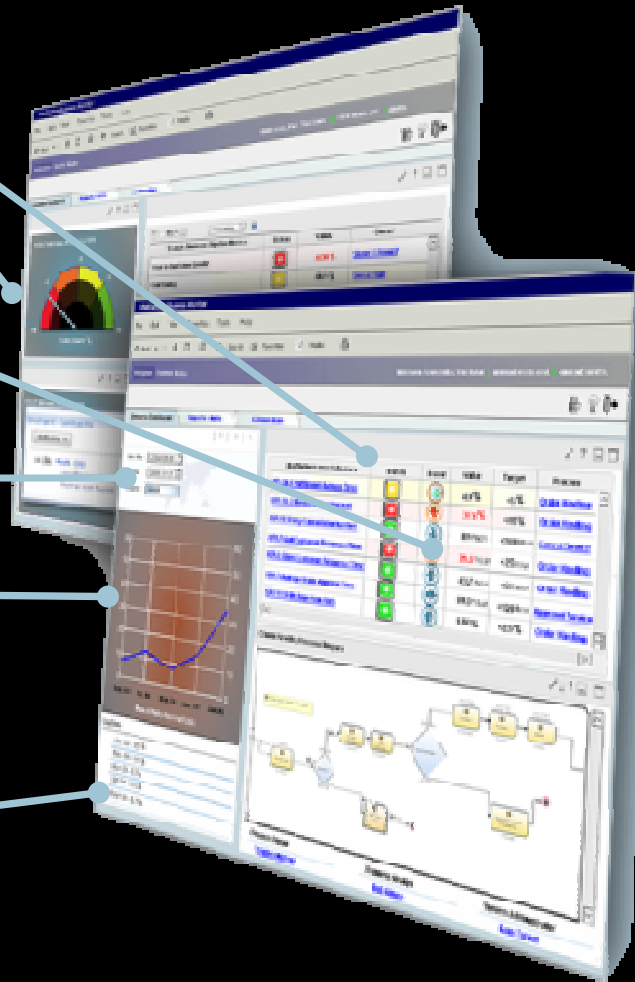
Notification of situations that require response

## Reports & Analyses

Understanding trends by combining real-time performance and historical information

## External Information

Information affecting performance





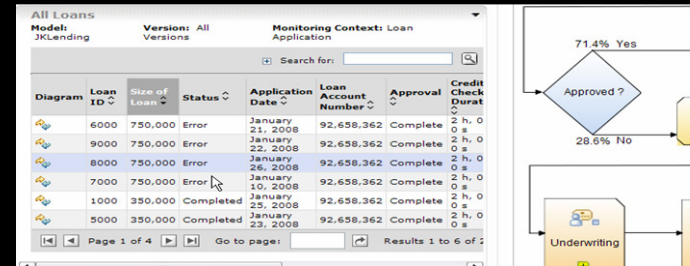
# Role-driven Dashboards

*Monitor the Information that's important to you*

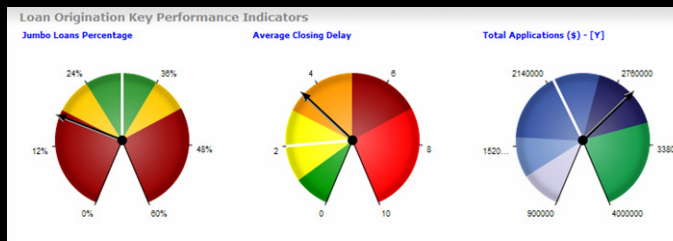
- Personalized to show desired mix of:
  - KPIs
  - Alerts
  - Human Tasks
  - Reports
  - Dimensions
  - Instances
  - Diagrams
  - Organizations



Business Leader



IT Leader



Business Professional

# Receive Business Activity Information from multiple Sources Provide a more complete View of Business Performance



Business Leader

Process Activity

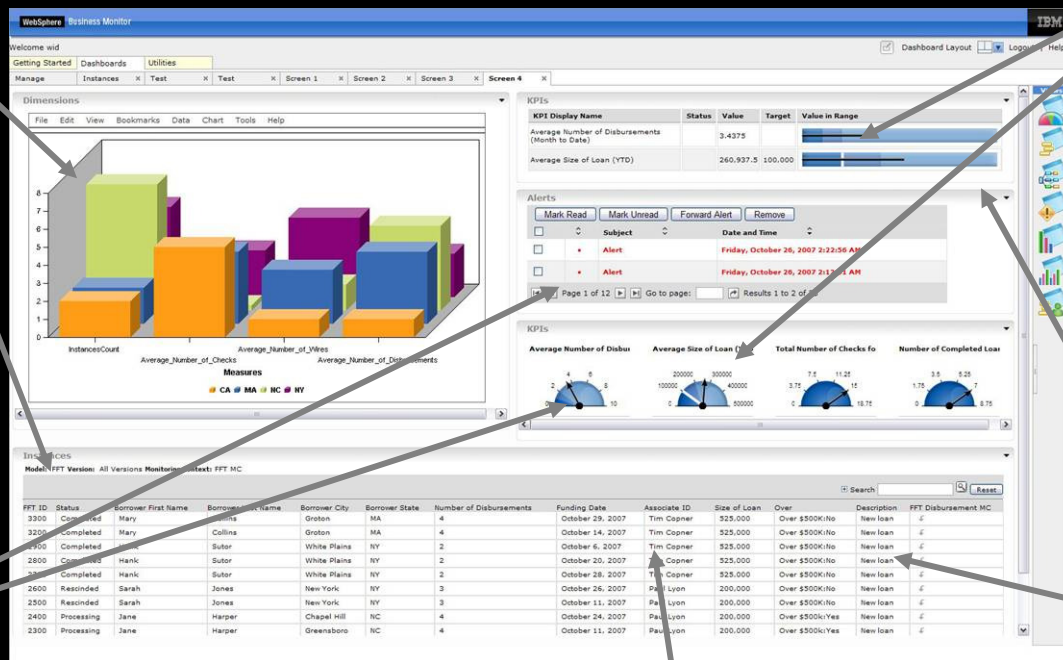
SAP or Other ERP



IT Leader



Business Professional



Legacy Systems

Databases

External Systems

# Learn From Your Data

## Modeler and Monitor Together:

- Feed your real data back into your modeling tool for real life simulations
- Using real business facts as the basis for analysis

**Executive Insight**

Alerts

Priority	Status	Alert
High	New	YTD Operating Profit is at least 2% above target
Medium	New	YTD ROE on track

Financials (View all)

Sales (View all)

News (View all)

Top Opportunities

#	Account	Rep	Amount	Product
1	Les Chapeaux	Paul Roget	99,650	Network Monitor
2	R & S Insurance	Simon Wilshire	99,250	Network Monitor
3	Le Monde	Bertrand Dutrand	99,250	Network Monitor
4	Iberica.com	Luis Desoto	99,250	Network Monitor
5	Enterprise	Jane Louis	98,434	Server

EBITDA

EBITDA in Millions of Dollars

Key Performance Indicators

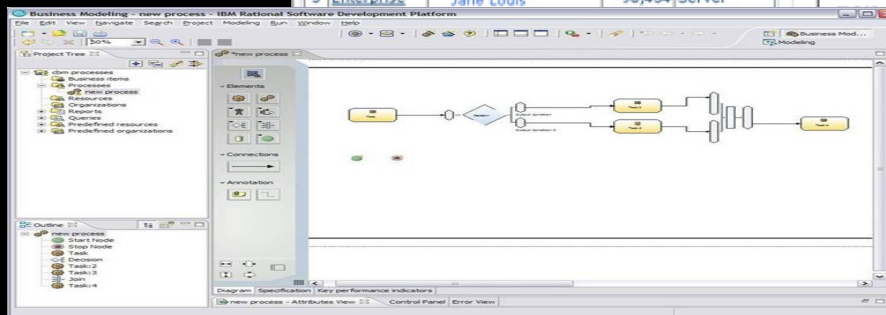
Objectives	2004	2005 YTD	Target	Change
<b>Financials</b>				
Operating Profit	\$4,155,500	\$4,652,000	10.0%	11.95%
Gross Margin	\$2,200,800	\$2,805,000	12.0%	27.45%
Return on Equity	1.03%	1.87%	1.0%	0.84%
<b>Sales</b>				
Revenue	\$6,032,401	\$6,394,345	5.0%	6.01%
Number of New Customers	320	345	9.0%	7.99%
Average Deal Size	\$75,454	\$76,209	2.0%	1.01%
<b>Organizational</b>				
Headcount	4,504	4,639	5.0%	3.00%
Turnover	2.3%	2.5%	1.0%	0.20%

Headcount

Headcount by Department

My Team

Name
Miles Montgomery
Jennifer Santos
Earl Dutton
Wallace Stokely
Maria Vasquez





# Deploying on System z provides differentiated value

*Enabling intelligent IT that works for your business*

## *The New IBM System z10 Enterprise Class*

The power of  
many . . .



. . . the simplicity  
of ONE

## *Server Leadership: 40+ years in the making!*

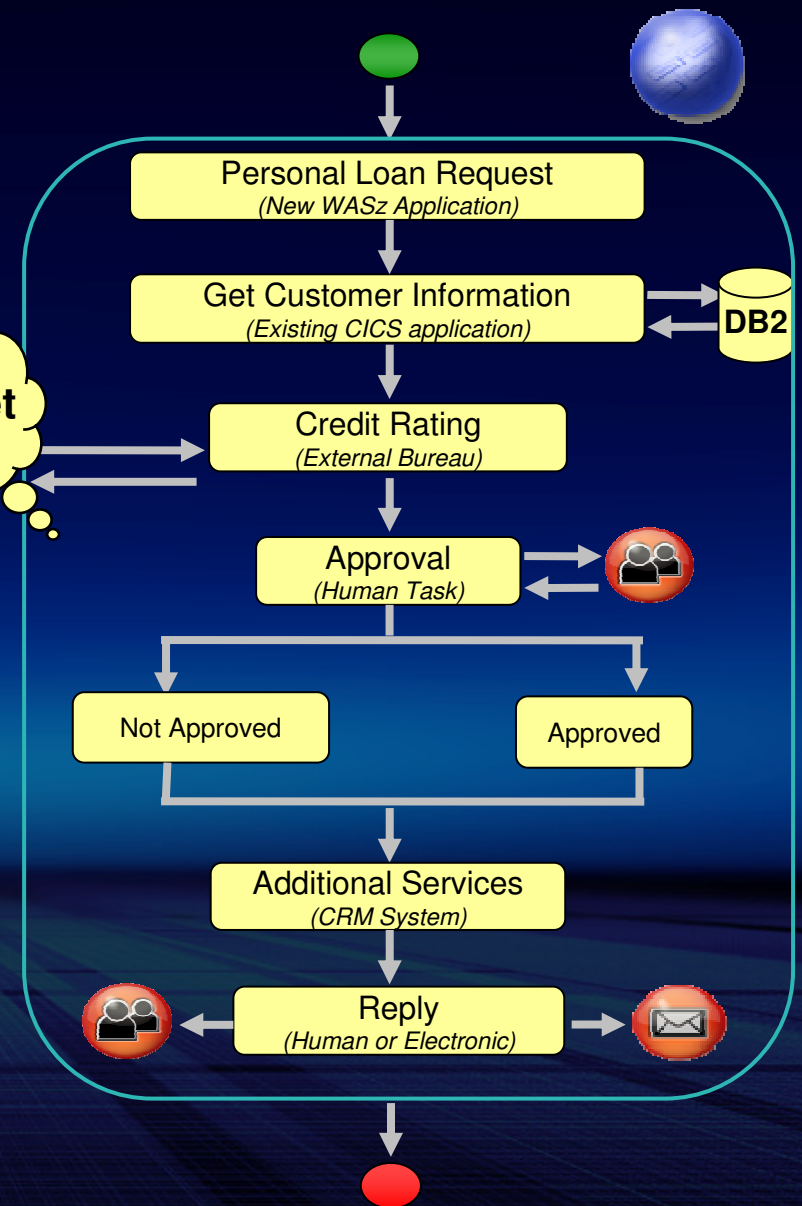
Mainframe utilization rates often exceed 80%, and are designed to handle sustained peak workload utilization of 100% without service level degradation.

- Processors, CPU speed, memory, network I/O
  - Growth of traditional workloads
  - Consolidation of hundreds of applications
  - Granularity of WebSphere deployments
  - Access to corporate data
  - Messaging speeds to support SOA
- Price / performance improvement of specialty engines
- Just in Time capacity and management
  - Adapt faster to workload variations such as dynamic SOA
  - Respond automatically to demand from CICS, IMS, DB2, WebSphere, ...
  - Deploy new WebSphere workloads in minutes

# When to Use System z for Process Serving

## System z—The choreographer for an SOA

- **Efficiency:** Control processes where they run
- **Integration:** Improve the flow of an existing process
- **Automation:** Remove the human enter keys
- **Reliability:** Guaranteed connections deliver automated processes
- **Workload Management:** Integration with workload manager / intelligence resource director
- **Security:** built into all system layers
- **Availability:** (zero downtime)/OS brand promise
- **Performance:** Full utilization of system capacity with same class of service

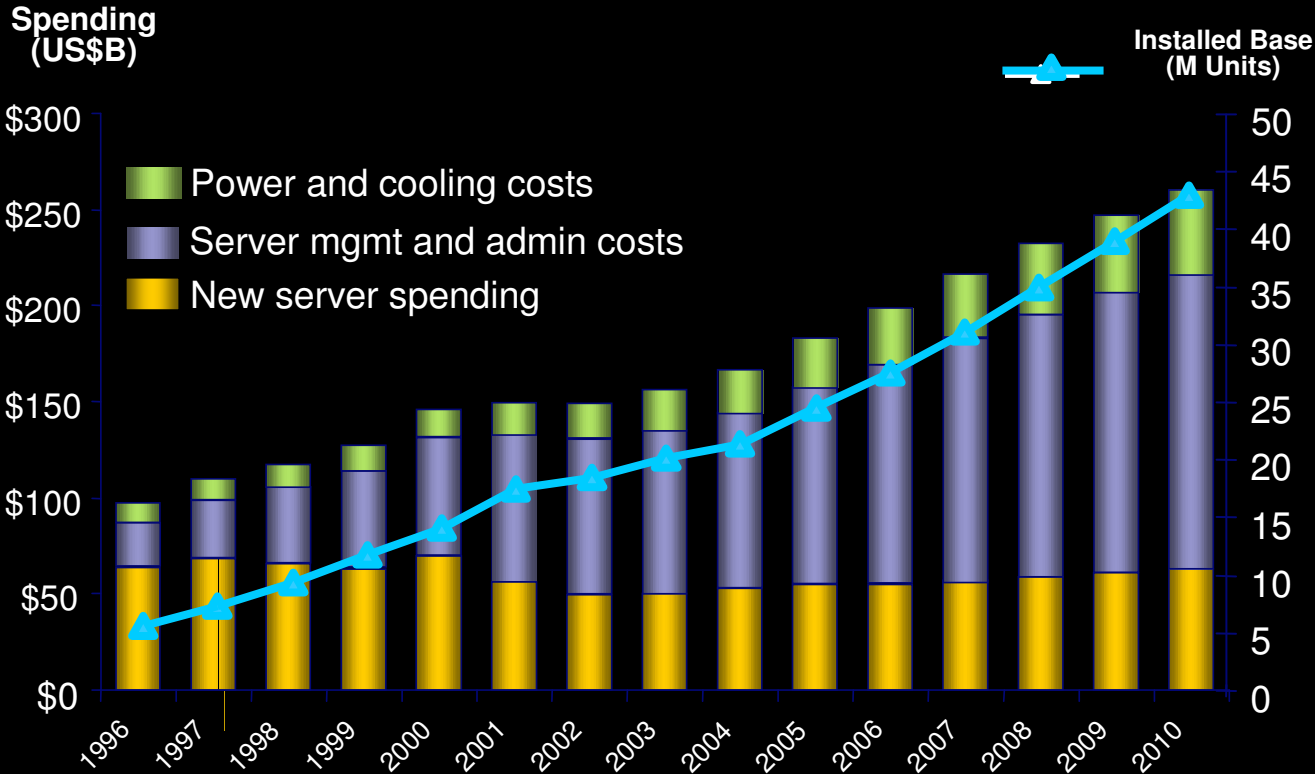




# Management of a complex server infrastructure

*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%

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

- Designed for integration
  - Designed for 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 xfer
- 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 & performance.
- Highest Qualities of Service
  - Availability, reliability, security, scalability, WLM,



**Recent data indicates that 41% of mainframe customers are building or deploying new applications on System z - up from 31% a year ago.**

## The Value of System z for SOA and BPM

- 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 needed to configure, monitor and adjust workload
    - Best Total Cost of Computing
    - System z Application Assist Processors (zAAPs) to execute z/OS java workloads

### IBM System z™



z/OS

## Why Select BPM Enabled by SOA from IBM?

- “IBM has a leading position in key vertical markets including its traditional markets for financial services, insurance, banking and government”
  - Magic Quadrant for Enterprise Content Management (Sept 2007)
- **Only** Vendor listed as a Leader by Forrester in **both** Integration-Centric BPMS and Human-Centric BPMS Waves
  - Integration-Centric BPM Suites Wave (4Q 2006), Human-Centric BPM Suites for Insurance (3Q 2006)
- Process Knowledge leader through BPM Methodology
- Most expertise to deliver BPM with more than 400 customers using IBM Industry Models to accelerate the deployment of strategic business initiatives
- BPM Software that spans every BPM capability
- Over 5 years of continuous market share growth
- Runs natively on z/OS or z/Linux

# Customers Turn to IBM

## *Unmatched Breadth of BPM Capabilities and Expertise*

**#1 in BPMS market share\***

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

### Depth of BPM Expertise

- 10,750+ IBM GBS/GTS practitioners
- 1,770+ systems integrator and reseller partners
- World-class BPM methodologies, process templates, industry best practices, and benchmarks
- BPM Competency Centers
- BPM value assessments and workshops
- 1000+ BPM consultant specialists
- 4000+ ISV partners
- 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 personalization with composite business application
- High performance, scalable process 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.”



\* Gartner, Inc., “Market Share: Portal, Process and Middleware Software, Worldwide, 2004-2006” by Michele Cantara et al, June 27, 2007



# Why IBM?

Trusted, experienced guidance based on 5700 customers\*

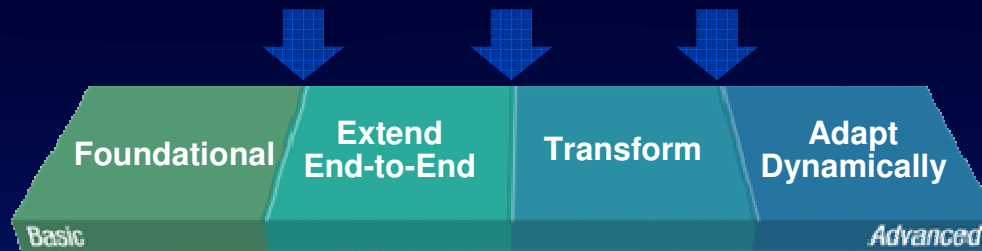


# of Customers using our SOA offerings

# Helping Customers Access Their SOA Health

*Are you IT fit enough to handle your SOA needs?*

*Whether you are here or here or here*



**Applications and Services Healthcheck Workshop for SOA** *\* New!*

**Infrastructure Healthcheck Workshop for SOA** *\* New!*

- Treatment Areas
- Application Reuse
  - Service Use
  - Service Security

- Treatment Areas
- Infrastructure Flexibility
  - Service Management
  - Middleware Support

*Critical for maximizing SOA success and value on the path toward becoming a Globally Integrated Enterprise*

# How You Can Get Started with BPM

## *Steps to Help You Prepare for Success*

### Explore

- Work with your local WebSphere sales representative to arrange a **Business Process Management Workshop** at your facility
- Conduct a detailed **BPM Business Value Assessment** to identify and score specific BPM opportunities within your organization

### Learn

- Attend a **local industry or technology event** with IBM's BPM team (contact your WebSphere sales representative for the latest event calendar)
- Download additional information from the **IBM BPM web site** including demos and whitepapers



[ibm.com/software/innovate](http://ibm.com/software/innovate)

# 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

**[ibm.com/soa/impact2008](http://ibm.com/soa/impact2008)**

**STOP TALKING START DOING**

**IBM®**

# Thank You for Joining Us today!

Go to [www.ibm.com/software/systemz](http://www.ibm.com/software/systemz) to:

- ▶ Replay this teleconference
- ▶ Replay previously broadcast teleconferences
- ▶ Register for upcoming events