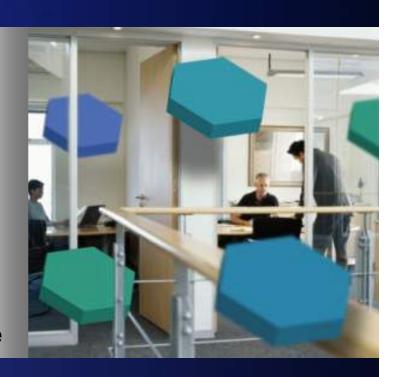


IBM SOA

# Business Process Management Enabled by SOA

Tom Rosamilia General Manager Application and Integration Middleware



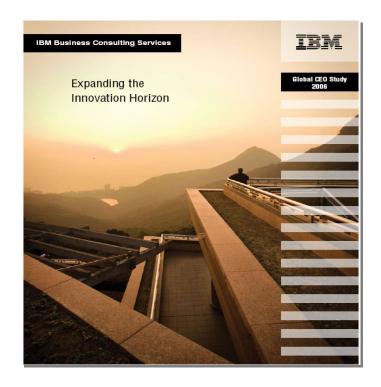


# CEO's Cite Innovation as Top Priority for Business Business Model Innovation delivers the greatest returns

Results of 765 CEO interviews worldwide:

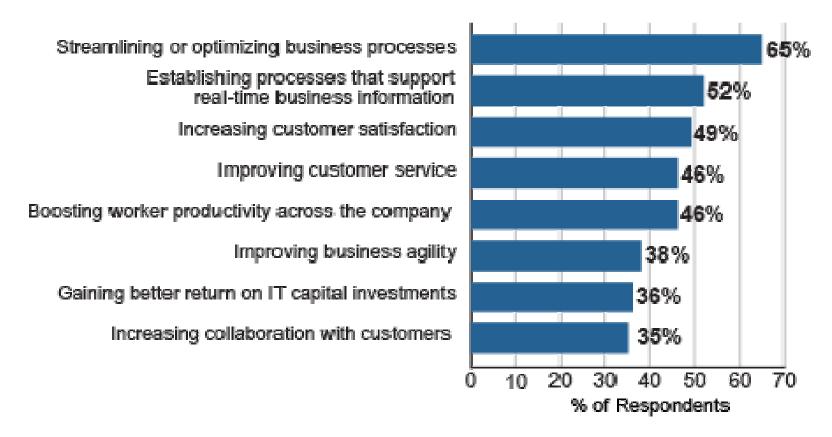
Out Performers place 2X emphasis on **Business Model innovation** than under performers

- CEOs are under intense pressure to innovate
- Corporate culture is critical to sustained innovation
- Business model innovation is the new strategic differentiator





Which key business priorities will your IT organization implement or support in 2007?





Note: Multiple responses allowed.

Data: InformationWeek Research Outlook 2007 study of 300 business technology

professionals



# Inflexible and Outdated Processes Are the Root Cause of Many Corporate Disasters

Major Airline strands passengers on runway for 10 hours – no food, overflowing toilets





Market-leading cell-phone provider exits market after small fire

Why? Inability to modify processes on the fly.



## BPM Projects are *Disguised* in Various Ways

89,678 117,451 74,637 70,400 84,015

Financial
Management
(SOX Compliance)

ycle nt ne

Marketing, sales, and services (Contact Center Optimization)

Supply Chain (Inventory Management)

Product Lifecycle
Management
(Category Line
Extension)

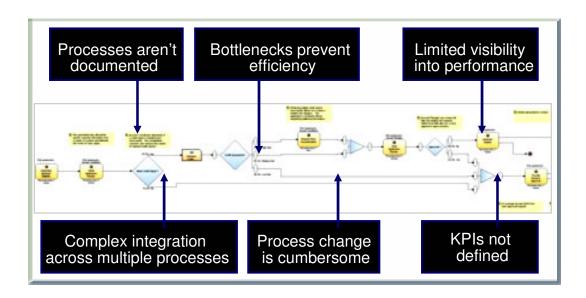
Human Capital Management

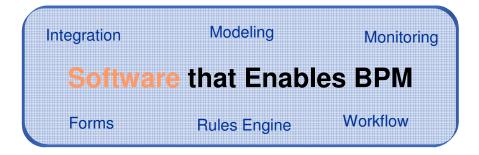
(Employee Self-Service)



#### Business Process Management is a Discipline...

#### **BPM Solves:**



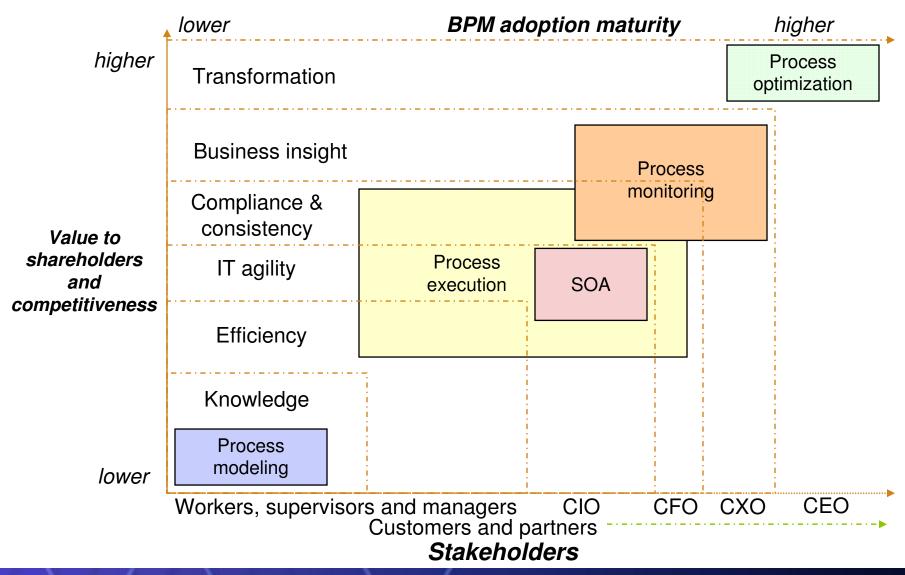




BPM governs organizational and operational activities



## Optimizing the business is the ultimate goal



### BPM and SOA – Better Together

### Gartner

Research

ID Number: G00145586

Publication Date: 9 February 2007

SOA and BPM Are Better Together

"...SOA and BPM initiatives...are more successful and the benefits are compounded when they are united"

"Organizations that align their BPM and SOA initiatives in 2007 will double their likelihood of becoming an industry leader by 2011"

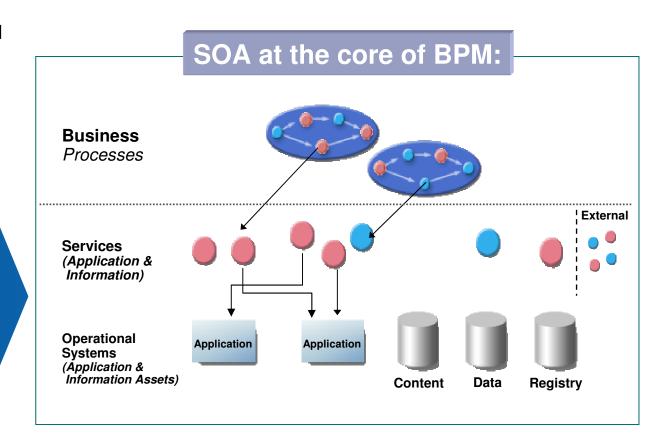
Source: BPM and SOA, Better Together, Paolo Malinverno, Janelle B. Hill, Gartner, Feb 2007.



## ....and here's why

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

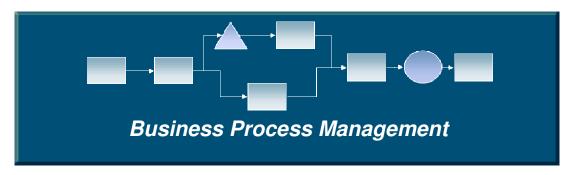
- Solution Building Efficiency
- Reuse of existing assets
- Flexibility in change





# Five Flexible Starting Points for BPM

Customers can start BPM in different ways





Design and simulate business processes





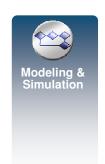








## Business Level Modeling and Simulation









Use simulation capabilities to:

- Assess risk mitigation
- Make investment decisions
- Calculate value of improvements



WebSphere Business Modeler

Iterative and continuous improvement



#### Unigroup Inc.

UniGroup, Inc.

#### Business Challenge:

Leverage emerging wireless communications technology to maximize the effectiveness of their Transportation Processes, leading to continuous cost and time optimization of their shipping resources.

- Solution: Use business process modeling to document and analyze their critical business processes, yielding more effective communications, cost savings, and improved tracking of both their equipment and customer assets.
- Results: 70% reduction in communications cost for van operators. Realtime visibility into shipping resources and location information, and increased customer satisfaction given the ability of letting them know the exact status of their shipments in route.
- ▶ Implementation Details: WebSphere Business Modeler



## **Business Activity Monitoring**



#### **Scorecards**

Key Performance Indicators for business units

#### Collaboration

Work with teams to resolve situations

#### **Business Alerts**

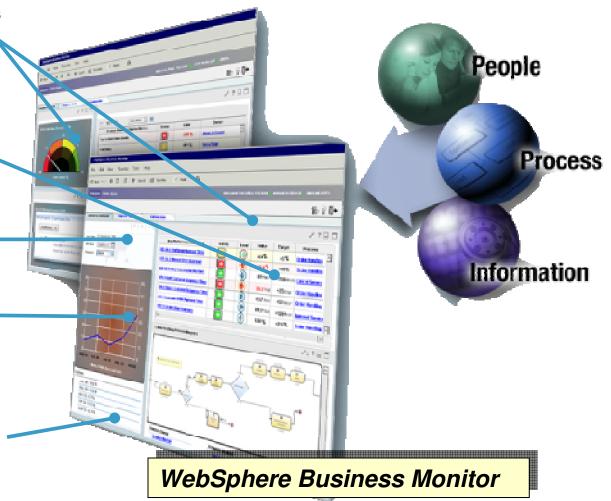
Notification of situations that require response

#### **Reports & Analyses**

Understanding trends by combining real-time performance and historical information

#### **External Information**

Information affecting performance



### NYS Dept of Taxation and Finance



Business Challenge: NY State Dept of Taxation and Finance (NYS DTF) processes 11 million personal and 2 million corporate returns annually using aging technology that can't keep up with the demands of citizens and users. NYS DTF needs systems and tools that are flexible, permit faster change and reduce overall costs.

- **Solution:** Leveraging SOA and BPM, NYS DTF is rapidly transforming their systems, data, people, and business processes to be more functional, flexible and responsive to citizens, users and legislation. Traditional mainframe batch processing is shifting to transactional. Manual processes are transforming to automated business processes. Real-time business activity monitoring is replacing daily printed run reports.
- Results: Rapid modernization of legacy batch systems to transactional. More channels to enhance voluntary compliance. Web services and XML linkage to IRS for corporate taxes. High component reuse, lowered costs. Reduced errors and business exceptions. Higher value business metrics.
- Implementation Details: WebSphere Business Modeler, Business Monitor, Process Server, Integration Developer, Application Server, Flat File Adapter, Commerce, DB2 V9 pureXML, DataStage, Workplace Forms, CICS Transaction Gateway, Rational Suite, Tivoli Composite Application Monitor.



## Process Choreography and Automation

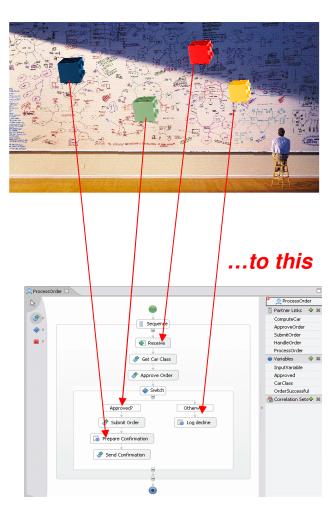


- Runtime for end-to-end SOA-based process automation
  - Flexible, reliable, scaleable, secure
- Integrated ESB for Range and Reach
  - Seamless access to all available services
- Robust Human and System-centric BPM Capabilities:
  - Human to Human; Human to System;
     System to System



**BPM for the Mainframe** 

# Transform your business from this...





#### WebSphere Process Server 6.0.2 Component Architecture



Service Components

Supporting Services

**SOA Core** 

Business Processes

**Mediation Flows** 

(ESB)

Human Tasks

Interface

Maps

Business State Machines

> Relationships

Business Rules

Dynamic Service Selection

Service Component Architecture Business Objects Common Event Infrastructure

WebSphere Application Server ND (J2EE Runtime)

**Business** 

Object

Maps





#### Business Challenge:

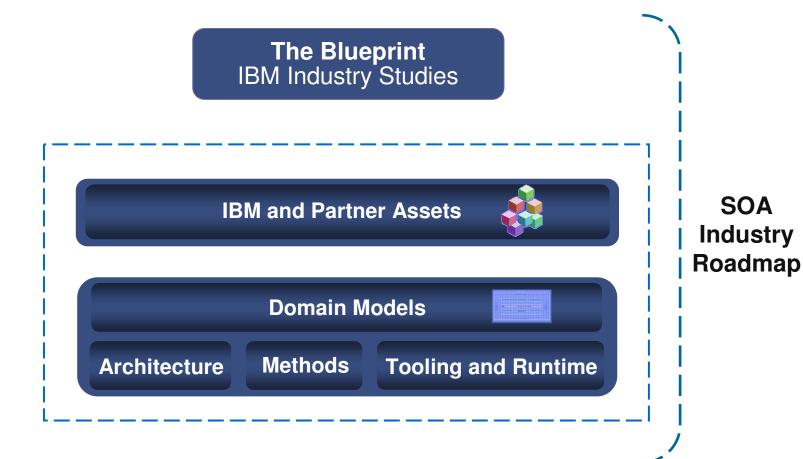
The market for home loans in Ireland has been transformed by a new breed of independent mortgage brokers who now account for 40 percent of the market. To respond to this marketplace change, EBS needed a channel to reach these brokers.

- Solution: EBS rewrote some of the back-end aspects of our mortgage origination environment using WebSphere Process Server to improve the reuse and efficiency of our IT service components to deliver the new channel to reach the independent mortgage broker market with a compelling offering.
- Results: Mortgage application processed in just hours compared with 2-3 days taken by competitors; independent mortgage broker channel now accounts for substantial portion of EBS's business after only 6 months, far exceeding expectations; new channel added without significantly increasing staff levels
- Implementation Details: Software: CICS® Transaction Server, Rational Application Developer, Rational Unified Process®, WebSphere Process Server, WebSphere Business Integration Server Foundation Server: IBM System z<sup>™</sup> 890



# IBM Industry Frameworks accelerate your ability to leverage SOA







- Business Challenges:
  - Make it easy for Independent Agents to do business with FFIC in a highly competitive landscape
  - Improve Agent experience with ease of use and effective business processes to enhance brand loyalty
- Solution: Service-oriented Business Solution enabled Straight-throughprocessing of personal property quotes and billing inquiries via web and Agency Management systems with self-service tools for Agents to deliver real-time quote functionality.
- Results: Personal Property Quote (PPQ) achieved a multi-fold increase in quote volumes. PPQ rolled out to 32 states in 7 months with a 52% reuse of business services between inquiry and quote.
- Implementation Details: WebSphere Business Services Fabric was implemented as the SOA solution platform during the initial Billing Inquiry project.



## **Content Centric Processing**



#### Content

Imaging/Capture
Doc Mgmt
Web Content Mgt.

Process
Dev Framework
Doc Routing
Workflow

# Compliance

Records Mgt. Email Mgt. Discovery





Business Challenges:

- Improve quality and speed of service at reduced cost
- Decrease employee time spent on tedious back-end processes
- Eliminate the manual review of forms
- Solution: Implemented an IBM FileNet BPM solution for dynamic design, monitoring and automating of business processes
- ▶ Results: Reduced loan processing cycle times from 7 days to 3 days. Realized an ROI of \$18 million from process optimization and headcount reduction. Provided quicker turnaround times that boost business by \$23 million. Increased time spent on customer facing activities from 30% to 70%.
- ▶ Implementation Details: IBM FileNet BPM



### Summary of BPM Announcements

#### **Expertise**

- Enhanced BPM Methodology
- GBS Offering: "BPM Enabled by SOA"
- Standards Based Process Models
- Academic Initiative

- Expanded BAM
- New Industry Dashboards

- WebSphere / FileNet BPM Roadmap
- FileNet P8 4.0

- Industry Content Packs, Industry Frameworks,
- WebSphere Bus Services Fabric
- BPM on Mainframe

### IBM has a complete BPMS

"IBM is the first and so far the only infrastructure software supplier to offer a complete BPMS supporting the end-to-end lifecycle from analytical modeling to performance management and optimization — based entirely on service oriented architecture."

Bruce Silver, Bruce Silver Associates - The 2006 BPMS Report



### IBM Leads in BPM Enabled by SOA

#### Bus ness Expertise:

- BPM Enabled by SOA Readiness Assessment
- 1000+ consultants trained in BPM Methodology and BPM Enabled by SOA Engagement
- 20 BPM Training and Education classes available



#### Technical Leadership:

- Breadth of Offerings from Tooling to Runtime; From Dashboards to BAM; Modeling, Simulation, Choreography, Frameworks, and ECM
- All supported by SOA

#### Market Recognition:

- Leader in Gartner BPA MQ
- Leader in Forrester Integration, Human, and Content centric BPM WAVES

#### Vibrant Ecosystem:

- 300+ BPM Business Partners
- 4000+ pre-built assets in the SOA Business Catalog



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