

#### Maximizing the Value of Your Applications and Data

Business Results Powered by SOA on System z

**Yvonne Perkins** Vice President Enterprise Platform SW / SWG The future runs on System z

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#### THE FIANELIS GELLING

Smarte Plane

### Smarter...

4 billion mobile phone subscribers

1 billion people on the Internet 1 billion transistors for each person on the planet

> 30 billion RFID tags by 2010

15 petabytes of new information per day

Over 200 billion emails sent per day

#### no nocu los logicos lo



### Clear





### LOST

Congested US roadways. 4.2 billion hours 2.9 billion gallons

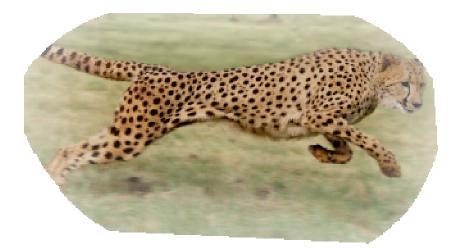


outdated India post-harvest infrastructure

Especially in a Tough Economic Climate!

### Survival

**The Cheetah** Fastest Animal - 113 kph Low genetic variability



# Agility Cost Optimization

Cheetah population has decreased to 76% of their historic range in Africa

#### is rour company right



### Enough?

**98%** Of CEOs plan business model changes

**3X** Increase in gap between expected change and ability to handle change



### In a Time of Turbulent Change

Source: CIO Study conducted in 2008: http://w3.ibm.com/articles/workingknowledge/2008/12/gbs\_ceostudy.html

The area budgets being



### Spent?

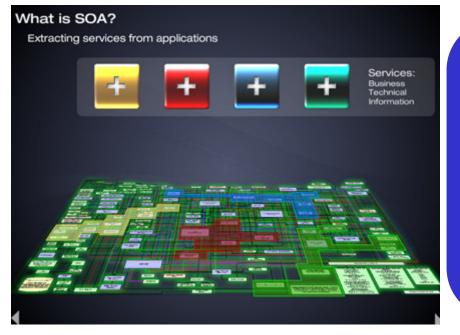
### "76% of I.T budgets are spent on MAINTENANCE, leaving only 24% for NEW INVESTMENTS." --- Forrester Research

**New IT projects** 76% **Maintenance and** 50% management of existing IT apps Time



I.T. Budget 100% \_\_\_\_\_

# Agility and Cost Optimization



- Quickly shift direction to reflect economic realities
- Flexibly connect information and application
- Optimize reuse of existing assets

Unlock the value of your own... ...Business Resources ...Application Resources ...Infrastructure Resources



### **Deliver Value**

#### **Business Needs**

"Ensure applications consistently deliver on

business needs in all situations"



#### **Common Buying Scenarios**

Application Infrastructure

"Adapt & respond to dynamic business situations"



Connectivity & Integration

"Quickly respond to changing customer expectations and business demands"



#### **Dynamic Processes**



### The Power of a Smart



Application Expand revenue opportunities and improve record of the section with Web 2.0

Execute **High Volume** Transactions

Modernize Application



Reduce costly business risks with high availability, secure business applications





Increase utilization, lowering energy and

maintenance costs





Quickly roll out new services and lower operational costs to increase revenue and market share

### **Delivers on Business Objectives** and Reduces Cost





#### lealthcare

- Reduced \$30 million in capital & operating costs
- 150% increase in processing capacity
- 40% reduction in IT infrastructure floor space requirements
- 67% reduction in number of physical servers



#### Government

- 80% reduction in time to build new systems
- Improved ability to coordinate operations amongst multiple organizations



#### Manufacturing

- New level of collaboration via Web 2.0
- Reduced Total Cost of Ownership by 40%



Three years ago, we set out to build a shared enterprise IT infrastructure that would allow MetLife to grow with agility...we now have a solid framework for integrating the systems of the companies we acquire."

Bob Fratangelo, Vice President of Distributed Systems at Metlife

### HUK-COBURG



### Aus Tradition günstig

#### **Industry Pains**

- Need to access more functionality and spread out its data processing load
- Reduce CPU usage to cut operating costs

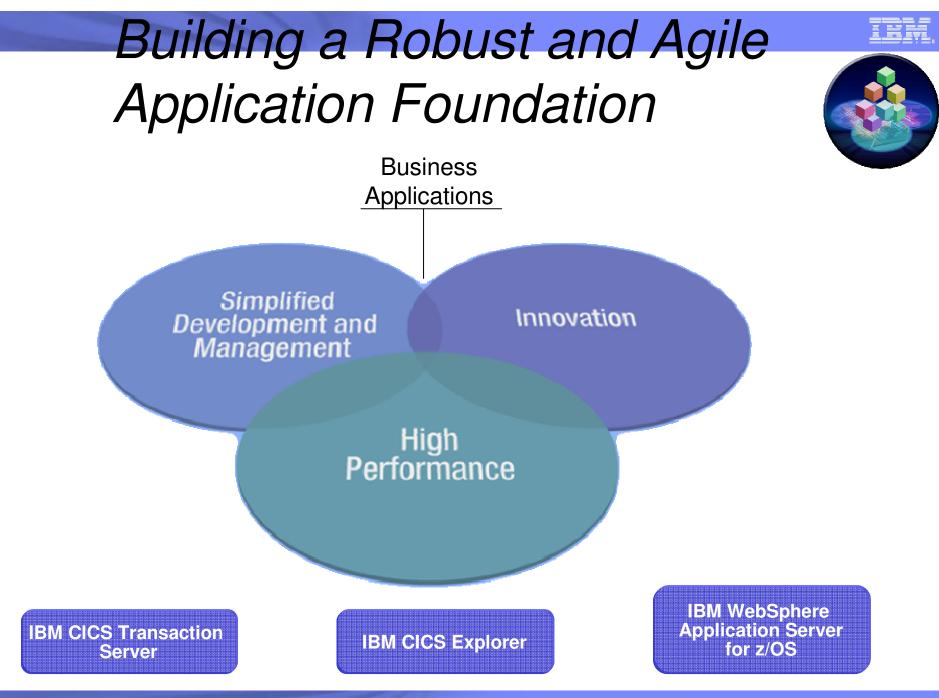
#### **Smarter Business Outcomes:**

- Reduces CPU usage for CICS technology by 400 million instructions per second (MIPS), for savings of \$320,000
- Cuts CPU usage in the internal coupling facility by 40%
- Achieve CPU savings through threadsafe functionality



#### Why Smart SOA Infrastructure?

Deliver on business objectives and reduce operating costs





## Thriving in a Dynamic Marketplace

### Prodetiver, Miggent Managem

 Applications & Computing Environments

- Lower Operational & Energy Costs
- Increase Agility

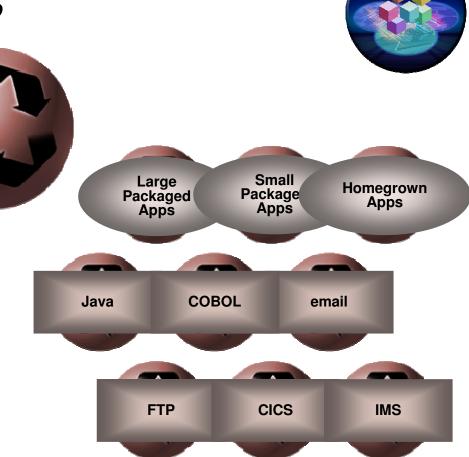
IBM WebSphere Extended Deployment Compute Grid for z/OS



### **Enable Agility Required for Smart** Business Outcomes

#### Get More Value from Applications & Expand Business Opportunities

- Service-enable existing packaged and existing apps
- Create new, reusable services
- Extend reusable services to the web
- Consume external reusable services



#### **Benefits**

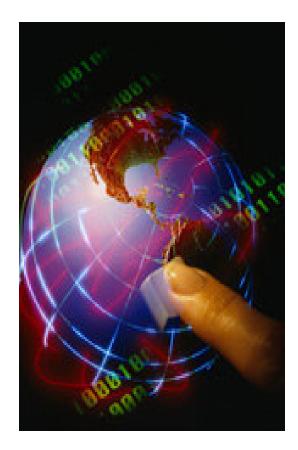
- Extend ROI by reusing prior investments
- Reduce risk and costs by leveraging robust applications
- Speed time to market with faster development cycles

#### © 2009 IBM Corporation

#### Denents of Furthing Application

### on System z

- Integration with Existing Assets
- High performance
- Server consolidation
- Dynamic scalability
- 99.999% Availability
- Exploitation of Java/J2EE
- Uninterrupted support
- ✓ Low TCO of applications





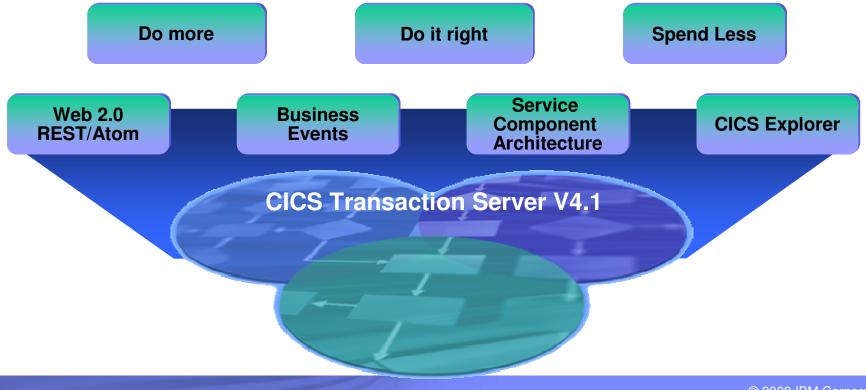


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### Server V4.1



- **Compete** with insight into business processes and modify business applications quickly
- **Comply** with corporate, industry, and government policies to manage business risk
- Control costs by simplifying IT infrastructure and productivity through easier-to-use interfaces & functions





### An Edge in the Market



Confirmed Fliah Booki



Lower process disruptions with reliable data 





Create new revenue-generating services from current core business applications

Routing Bank **Fransactions** 



Adapt business faster by easily connecting services & apps

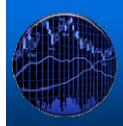
Centralized Information Source



Reduce cost & duplication by leveraging existing assets

### Enrichment





#### Financial Markets

Delivering \$1 trillion transactions per day

Exchanging £400B+ in messages



#### Government

Agency sends 675m messages per day

 ~ 7,500 agency users & 50,000 citizen transactions daily

#### Banking

\$7-\$35 trillion messaging traffic per day

• 213+ million messages daily

## Disability, Oune

#### surance

95% of the top global insurances firms use ESB enrichment Single firm improved transactional elapsed

time by over 39%



"We needed a single integration platform that would allow all our applications to access and share information and enable them to collaboratively process transactions based on common business rules."

> Chief Architect, Health Insurance

### **Ball State University**





#### **Industry Pains**

 The need to streamline administrative systems and ensure integrity

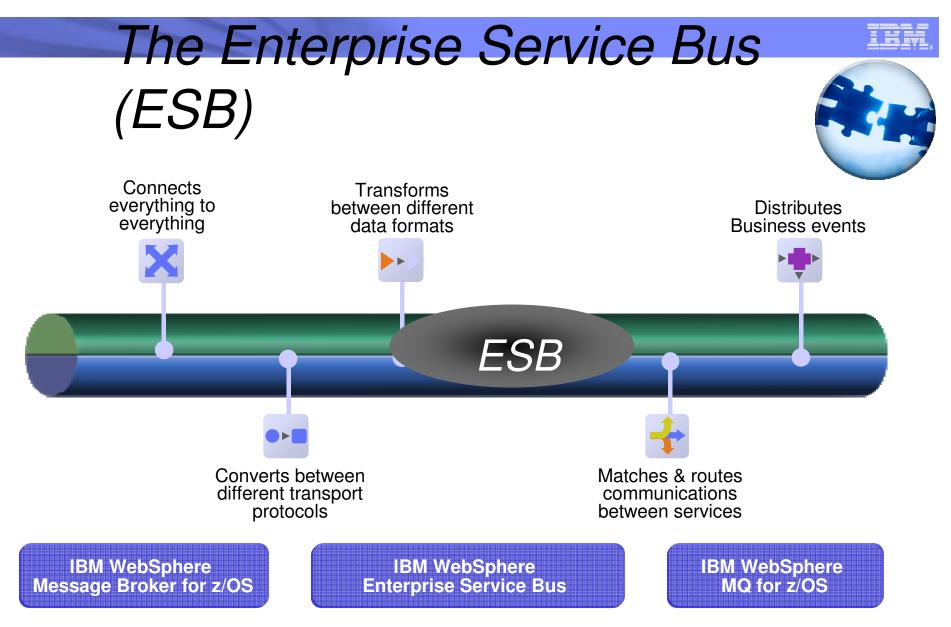
#### Smarter Business Outcomes:

SOA with Enterprise Service Bus to connect siloed applications without hand-coding individual API calls Resolve name and address discrepancies in 10 months, as opposed to several years



#### Why Smart SOA Connectivity & Integration?

Communication between decoupled back and front ends, choosing the destination for a message, and transforming it into the correct format



An ESB enables flexible SOA connectivity for integrating business applications, services and processes



### Service Visibility & Governance



 Publish & find Your Services to extend business applications

- Manage & govern your ESB messaging & services
- Ensure consistent policy enforcement

IBM WebSphere MQ File Transfer Edition for z/OS IBM WebSphere Service Registry & Repository for z/OS

#### 



### **Connectivity & Integration**

WebSphere ESB

#### Virtualization

- High resource utilization
- Massive consolidation and simplification

#### Performance

Improvements when colocating with z/OS data

#### Efficient growth

Pay for what you use

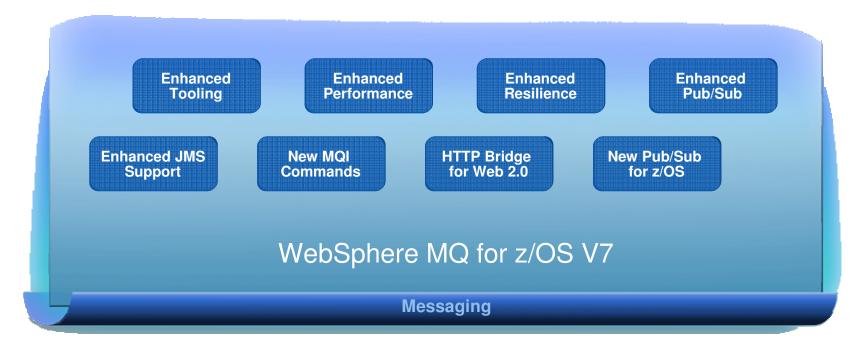
#### Business critical workloads

- Automated recovery from failures
- Dynamic workload balancing

### Messaging

### WebSphere MQ for z/OS V7

- Highly consumable & easy to use for faster time to market
- Turbo-charged performance to do more with less
- More dynamic & scalable Pub/Sub features







## The Power of Dynamic Business



Automatically adjust forecasts and shipments to increase accuracy and reduce costs



Supply Chain Management



Detect and respond to inventory changes in real-time to meet customer demands

Telecom Services



Quickly deliver more compelling and profitable service bundles to increase customer retention

Insurance Claims Processing



Improve productivity and customer satisfaction by automatically routing claims to the right knowledge worker

### Dynamic Business Processes Deliver Real Results





#### Supply Chair

- Reduced costs by 63%
- Reduced staffing requirements for manual tasks by 85%
- Reduced compliance penalties by 75%



#### Governmen

- 80% reduction in tax return exception backlogs
- 80% reduction in average age of work queue, avoiding extra interest costs



#### nsurance

- Decreased costs by 30%
- Increased revenues by 15%



"...in this era, flexibility and the optimal operation is really needed. We are in the recession time, so optimization is something which is a must for all of us...this is something which is not found in other vendors...Fabric (and the Telco Pack)...gives us a possibility to dynamically select the service based on the policy. ...one of the strong points of IBM BPM SOA solution is that it covers the complete lifecycle of the process, so starting from modeling and ending at monitoring and operating."

#### Mitja Stular. CTO for Mobitel

### "European Bank"



#### European Bank

#### **Industry Pains**

- The market for home loans 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 they needed a channel to reach these brokers.

#### **Smarter Business Outcomes:**

Mortgage application processed in just hours compared with 2-3 days taken by competitors; independent mortgage broker channel now accounts for substantial portion of their business after only 6 months, far exceeding expectations; new channel added without significantly increasing staff levels

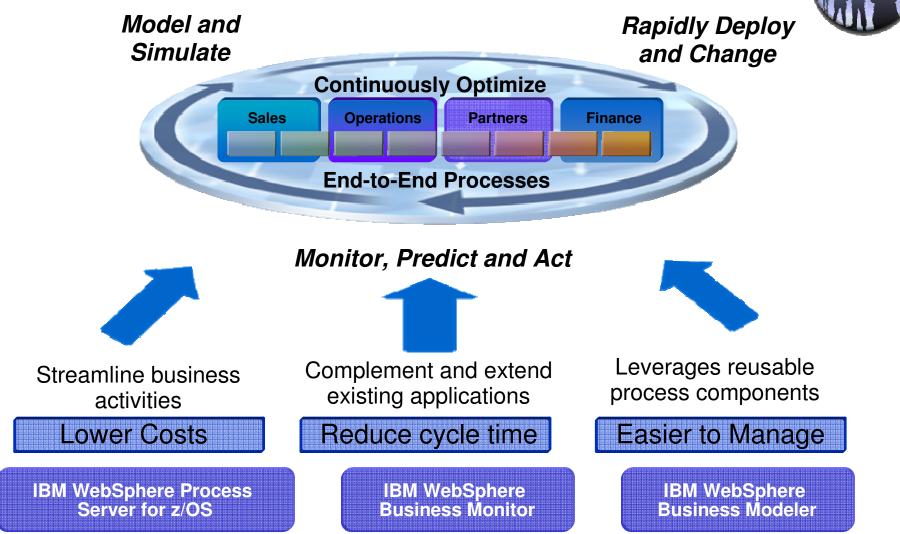


#### Why Smart SOA Business Process Management?

WebSphere Process Server improved the reuse and efficiency of service components to reach the independent mortgage broker market

### Improves Operating Efficiency and Reduce Costs







### Insight contained in business events all around us What is a An action that has occurred, or the abse



An action that has occurred, or the absence of it occurring, which has relevance to the business

Nearly **4 Trillion** RFID events are emitted each day

**Business Event?** 

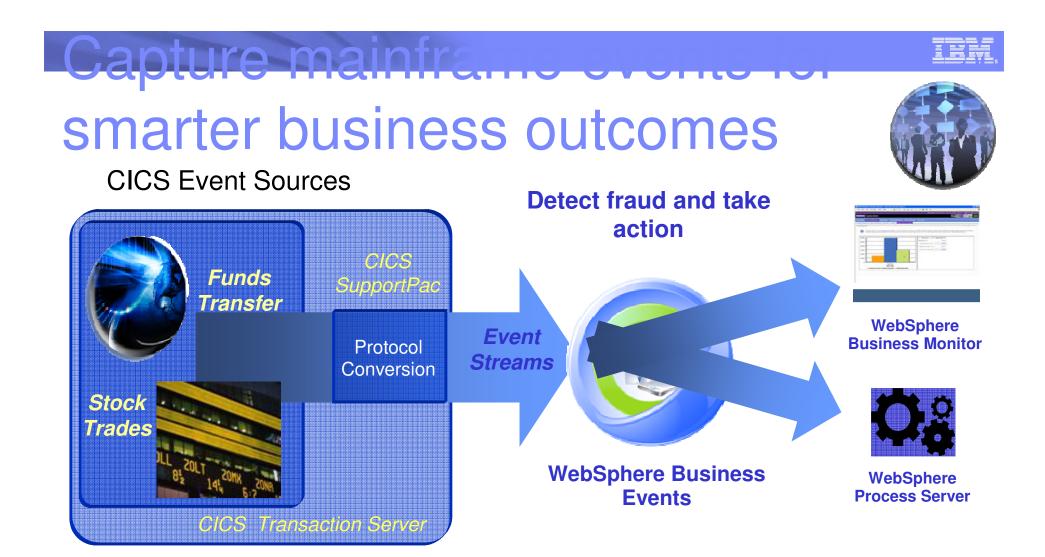


Large companies can experience up to <u>800 Billion</u> business events (shipments, weather, customer contacts, delays) daily



Over **190 Billion** emails are sent daily







WebSphere Business Events integration with WebSphere Business Monitor, Tivoli NetCool and CICS Transaction Server



### ILOG Lines of Laterness Expanded Value for IBM clients

### Powerful Business Rule Management System

Adapt and respond dynamically, automating process-based decisions with business rule management

#### Efficient Supply Chain Management

Optimize supply chains, design & planning tools for improved efficiency and productivity

## 

### Advanced Suite of Optimization Tools

Produce better action plans & schedules, enhancing abilities to explore alternatives, understand trade-offs, and respond to changes in business operations

#### Innovative Visualization Tools

Transform insight into action, enhancing collaboration for smarter role-based business decisions

#### **Success Story**

#### **Hotwire**

Hotwire expands revenue opportunities and improves business response times, with greater scalability and flexibility through rules management





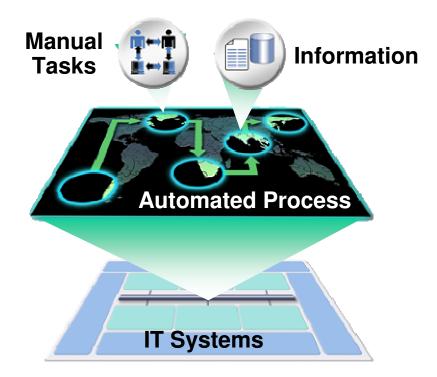
### Process Management

✓Process Efficiency

✓Improve Integration

✓ Reduce Human Processes

Workload Management



# Application Robust platform that is easy to deploy

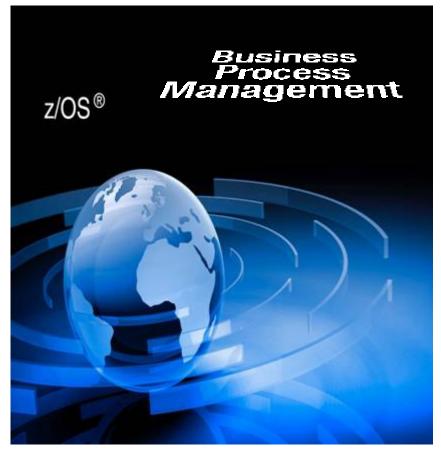
Leveraging a strong SOA foundation on z/OS for process flexibility, responsiveness and access to information assets

#### New with Version 6.2

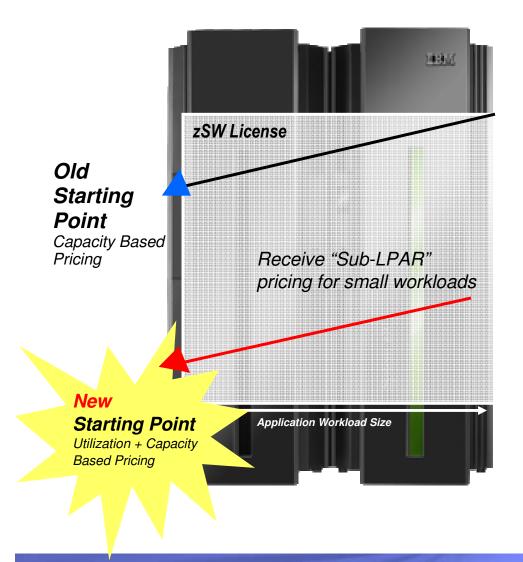
- Web 2.0 business user interface to manage human tasks, timetables & orchestrated processes
- Lotus Forms integration for human tasks
- Greater flexibility and control for business rules, ad-hoc tasks & process execution

#### Integration with CICS

- CICS applications can be part of business processes
- CICS events feeding WebSphere Business Events to identify patterns of interest



### Helping to Make It Easier To Deploy New Projects on z/OS Software



- Help customers start their projects
- Improve alignment between software use and software charges
- Enable greater flexibility with software licensing
- Change LPAR capacity without changing software charges
- ✓ Improve price / performance



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## Smarter Planet on Syste



SMART SOA CONFERENCE MAY 3 - 8 LAS VEGAS

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### **Register NOW**

ibm.com/soa/impact2009

\$200 savings; early bird ends on Jan 31st