

Leveraging Service Oriented Architecture to Thrive in a Dynamic Market Place

Yvonne Perkins Vice President Enterprise Platform SW / SWG



© 2009 IBM Corporation



© 2009 IBM Corporation

We are living in a new landscape

Smarter Planet

instrumented interconnected intelligent

people companies, institutions, industries man-made systems nature's systems

The need for change is clear – We must work Smarter

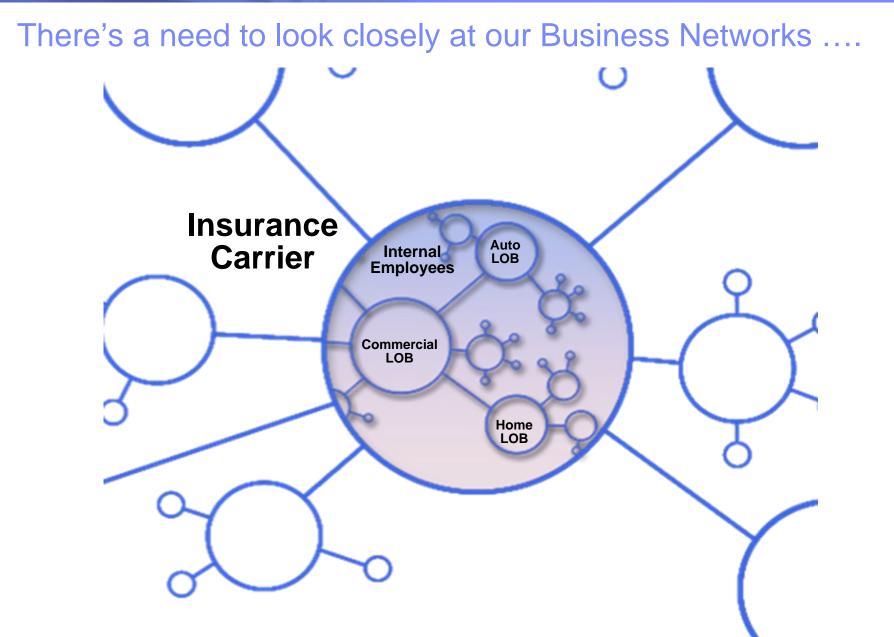


The U.S. healthcare system loses more than \$100 billion a year to fraud.

> \$11.5B worth of produce is wasted in India because of outdated post-harvest infrastructure

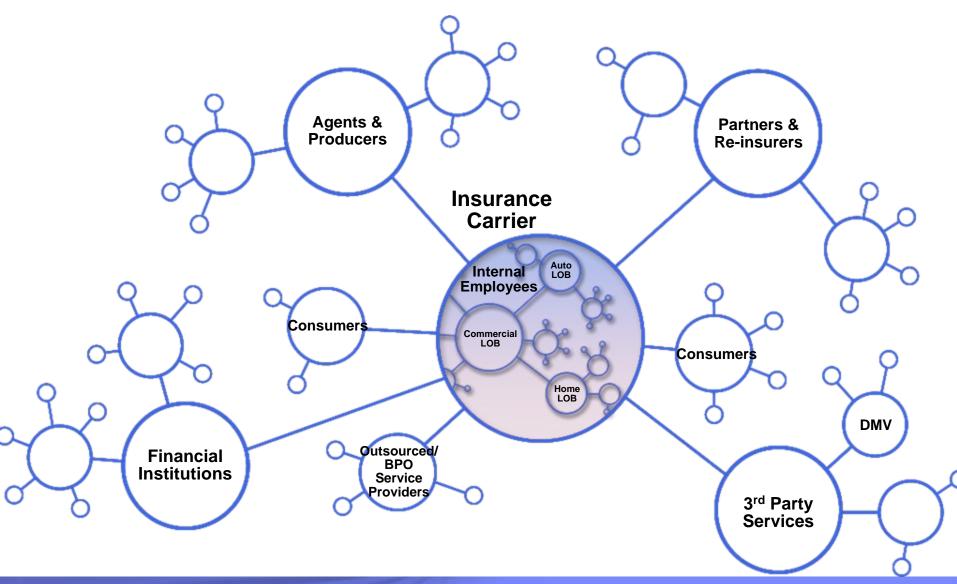
> > In North America, up to 22 percent of total port volume is empty containers.







...which are becoming broader...and much more dynamic



© 2009 IBM Corporation



Achieving a dynamic business network presents challenges

3%

of companies report they have achieved process excellence" 68%

of executives report that integration challenges impede collaborative relationships with partners

85%

of CEOs require more visibility into their businesses

Businesses are restrained by organizational silos



...and tremendous opportunities

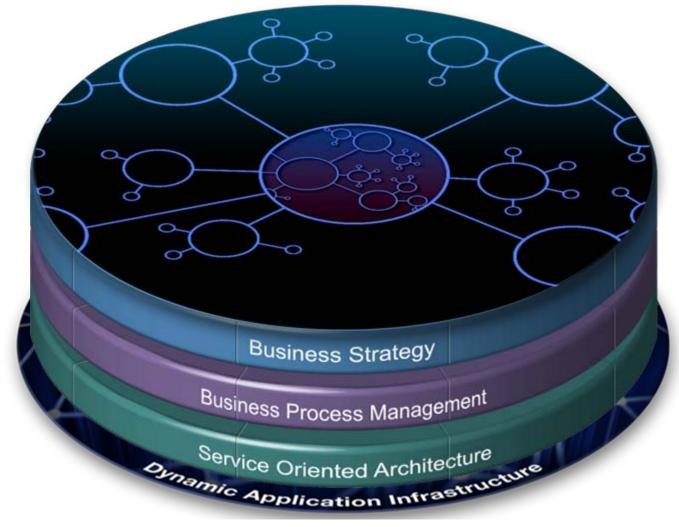
A large bank reduced redundant process activities by

60%

An air freight company reduced partner integration time by A retailer gained real-time inventory visibility across 500+ outlets and reduced data integration costs by

Break down silos to increase business agility and embrace the dynamic network

A dynamic network requires business agility...



... supported by a Dynamic Application Infrastructure



But you must also be sensitive to costs

Business Agility

to take advantage of new revenue opportunities and address competitive threats



Cost Optimization

to slash operational and maintenance expense and maximize efficiency necessary for all economic climates

To Survive... To Succeed!



Is your company ready to work smarter?

98% Of CEOs plan business model changes

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



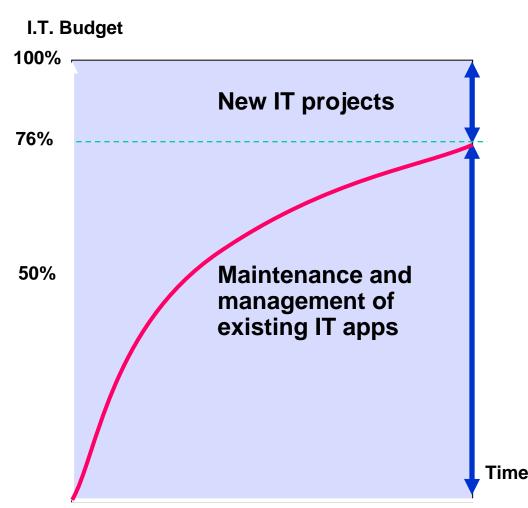
In a Time of Turbulent Change

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

How IT Budgets are being spent are an inhibitor?

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

--- Forrester Research





Three ways to drive Agility while Optimizing Costs

Business Needs

"Ensure applications consistently deliver on business needs in all situations"



Common Buying Scenarios

Dynamic Application Infrastructure

"Adapt & respond to dynamic business situations"



SOA Connectivity & Integration

"Quickly respond to changing customer expectations and business demands"



Business Process Management The power of a Dynamic Application Infrastructure







Expand client offerings using existing business data with Web 2.0

Execute High Volume Transactions



Reduce business risks with highly available, secure applications

Capitalize on dynamic situations



Timely insight with low cost situational applications

Manage worldwide operations



Rapidly introduce new capabilities throughout the business with centralized administration

Dynamic Application Infrastructure Delivers on Business Objectives and Reduces Cost

Healthcare

- 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

"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



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%





HUK-COBURG



HUK-COBURG

Industry Pains

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

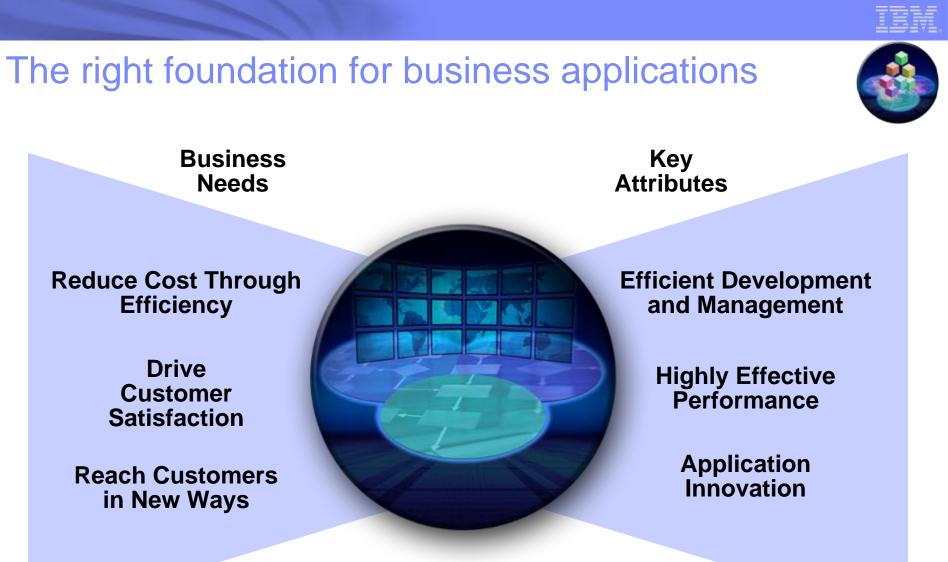
Smarter Business Outcomes:

- 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

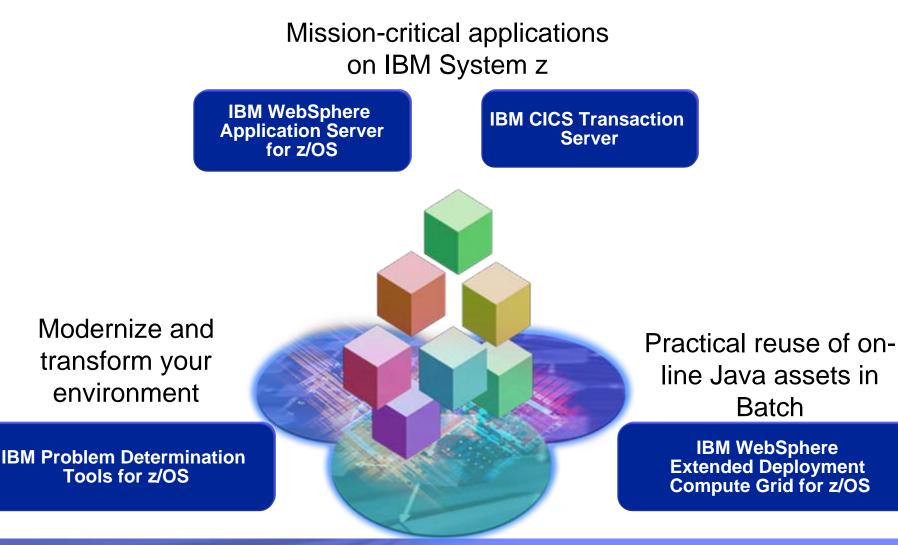


Why Dynamic Application Infrastructure?

Deliver on business objectives and reduce operating costs



The right platform for any situation WebSphere Application Foundation



© 2009 IBM Corporation

17

Thriving in a Dynamic Marketplace Intelligent Management of Applications

Understanding, Optimization and Control

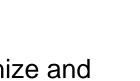
IBM CICS Tools

Modernize and transform your environment

IBM Problem Determination Tools for z/OS

Improve visibility, control and automation

IBM Tivoli Integrated Service Management





CICS is at the heart of smart business



Revitalize Business

Revitalize Infrastructure



Revitalize Applications

"CICS is probably the most successful piece of software of all time . . . It is the mainstay of business computing throughout the world . . . Millions of users unknowingly activate CICS every day, and if it were to disappear the world economy would grind to a halt." *Phil Manchester, Personal Computer Magazine*

Efficiently Develop Innovative Applications Application Foundation

IBM Problem Determination Tools V10

- Additional integration with IBM Rational Developer for System z, particularly with the File Manager Base
- Currency support for IBM CICS Transaction Server V4.1 and IBM IMS[™] V11
- Further support for service oriented architecture (SOA) and Web service applications







- Easily add communication features with new Communications Enabled Application (CEA) Feature Pack V1
- More efficient development of apps that use XML with new XML Feature Pack V1
- Simplified composite application development with enhanced Service Component Architecture (SCA) Feature Pack V1.0.1



Reuse Business Applications 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



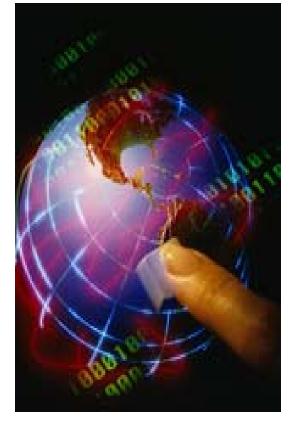
Smal Large Homearowr Packaged Packaged Apps Apps Apps COBOL email Java z/TPF CICS IMS



Benefits of a Dynamic Infrastructure 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
- Performance Optimization through collocation







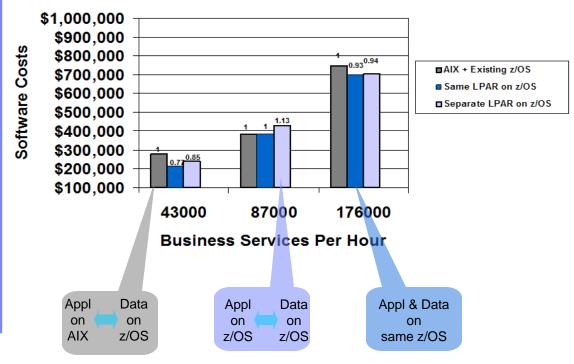


When location matters, why not z/OS? *Performance Optimization through collocation*



- Up to 34% overall CPU savings with WebSphere Application Server and DB2 on the same LPAR
- 52% more throughput when WAS for z/OS is collocated with DB2 in the same LPAR
- 3-year TCO shows WAS and WPS are price neutral when compared to running equivalent workload on distributed servers

3-Year Total Software Cost Comparison Summary



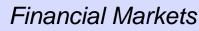
Deploying application servers, data sub systems and application sub systems



An edge in the market – SOA Connectivity & Integration



Proven and trusted messaging and enrichment



- Delivering \$1 trillion transactions per day
- Exchanging £400B+ in messages

Government

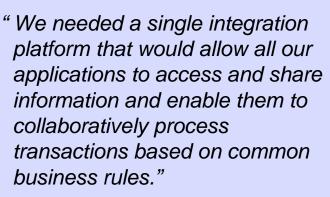
- Agency sends 675m messages per day
- ~ 7,500 agency users & 50,000 citizen transactions daily

Banking

- \$7-\$35 trillion messaging traffic per day
- 213+ million messages daily

Insurance

- 95% of the top global insurances firms use ESB enrichment
- Single firm improved transactional elapsed time by over 39%



Chief Architect, Health Insurance





Ball State University





Industry Pains

 The need to streamline administrative systems and ensure integrity

Smarter Business Outcomes:

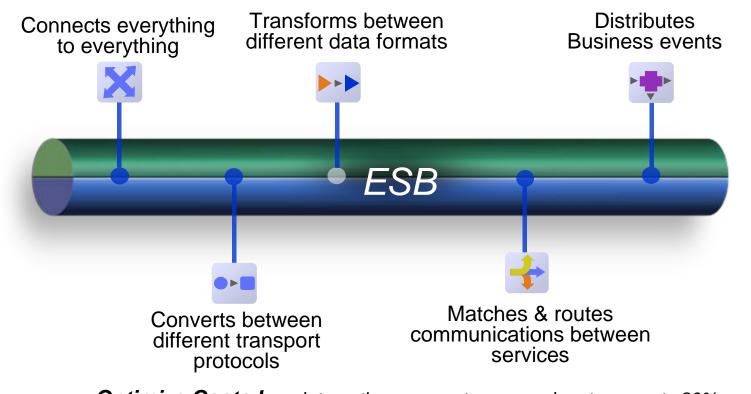
- SOA with Enterprise Service Bus to connect siloed applications without hand-coding individual API calls
- Resolve name and address discrepancies in 10 months, as opposed to several years



Why SOA Connectivity & Integration?

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

Agility and savings begin with Integration The Enterprise Service Bus (ESB)



Optimize Costs by: Integrating new customers and partners up to 80% faster, Improving performance more than 10x - with lower costs, and Achieving full ROI within as few as 6 months

IBM WebSphere Message Broker for z/OS IBM WebSphere Enterprise Service Bus IBM WebSphere MQ for z/OS

© 2009 IBM Corporation

Service Visibility & Governance





- Trust: Publish & find Your Services to extend business applications
- Manage & govern your
 ESB messaging & services
- Secure: Ensure consistent policy enforcement

IBM WebSphere MQ File Transfer Edition for z/OS

IBM WebSphere Service Registry & Repository for z/OS

Access rich information and applications

WebSphere MQ for z/OS V7.0.1

- Increase availability
- Increased ROI of z/OS with 64-bit storage and increased performance
- Reduced TCO and accelerate ROI with new options for high availability messaging



WebSphere MQ File Transfer Edition for z/OS V7.0.2

- Reliable, managed file transfer solution for moving files - regardless of size
- Enhanced security features
- Able to take control of managed file transfers with SOA governance





WebSphere Message Broker for z/OS V7.0

- Easier to install and configure
- Universal connectivity for SOA
- Dynamic operational management



© 2009 IBM Corporation

When to use System z for SOA Connectivity & Integration?



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

The power of Business Process Management



Supply Chain Management



Automatically adjust forecasts and shipments to increase accuracy and reduce costs

Retail Inventory



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

Business Process Management Deliver real results





Supply Chain

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



Government

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



Insurance

- 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

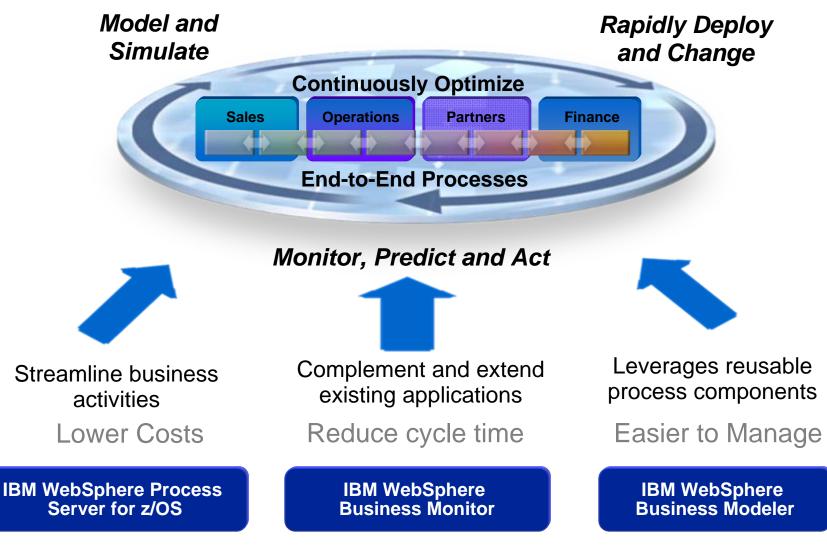


Why Dynamic Business Processes?

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

Process Automation Improves operating efficiency and reduce costs





IBM.

Insight contained in business events all around us



What is a Business Event?

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

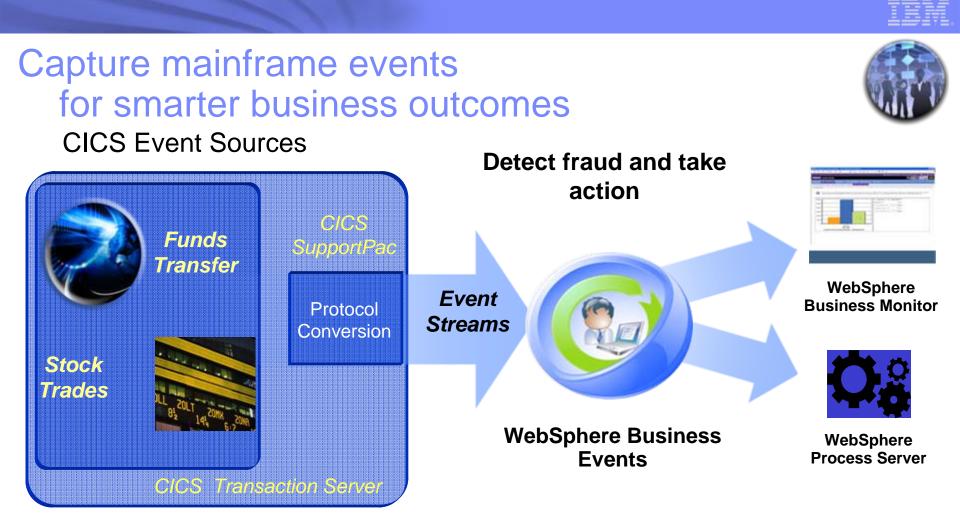


Large companies can experience up to <u>800 Billion</u> business events (shipments, weather, customer contacts, delays) daily



Over **190 Billion** emails are sent daily

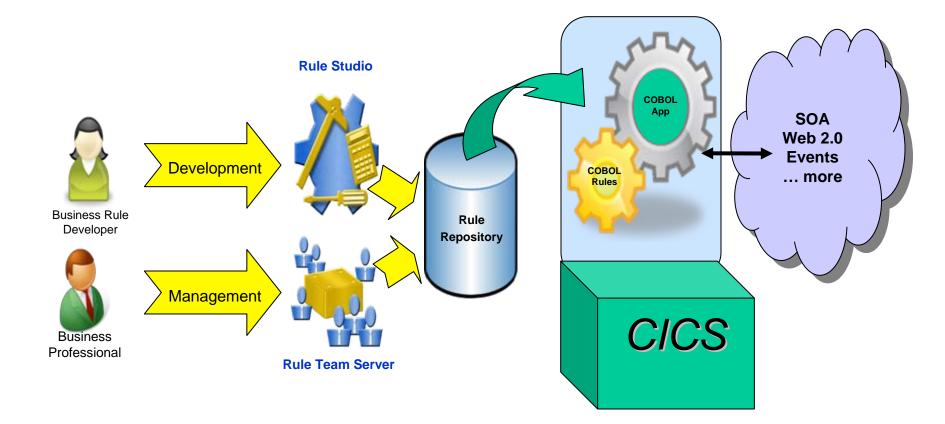




WebSphere Business Events integration with WebSphere Business Monitor, Tivoli NetCool and CICS Transaction Server

CICS with ILOG Rules for COBOL





© 2009 IBM Corporation

Automate and govern processes

WebSphere Process Server for z/OS V7.0

- Empowers users and accelerates productivity
- Accelerate Time to Value
- Enhanced capabilities for creating, working with and administering human workflow



Events V7

- Manage events from a wide variety of sources
- Detect, evaluate, and respond to real time events and patterns
- Provide business user authoring tools

WebSphere Business WebSphere ILOG Business Rule Management Systems

- V7 Rapidly deploy changes and extend rule authoring
 - Improved integration with System z applications supporting CICS
 - Provides Rule management and governance



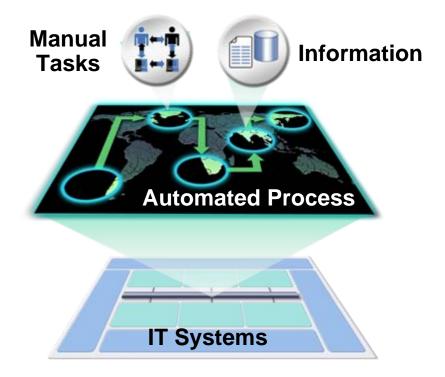




When to use System z for Business Process Management?

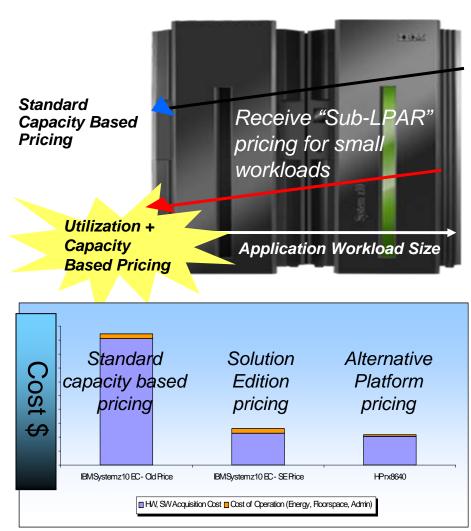


- Process Efficiency
- Improve Integration
- Reduce Human Processes
- Workload Management



IBM

WebSphere Application Server on z/OS New options to lower the cost for emerging workloads



- Getting Started Sub-capacity Pricing
 - Start and grow your projects on z/OS
 - Improve alignment of software use & charges
 - Change LPAR capacity without changing software charges

- System z Solution Editions for WebSphere and Application Development
 - Modern platform for mission critical workloads
 - Designed to be affordable
 - Secure, reliable, scalable



Impact 2010 The Premier Conference for Business and IT Leaders Discover. Interact. Optimize.

Sign up now, get \$300 off registration! Plus..

(2) Free Certifications & Hotel & Travel Savings

5 Reasons you can't afford to miss...

- 1 Make an Impact Now learn how to work smarter and optimize your business performance get the latest in WebSphere, BPM and Smart SOA technologies
- 2 Save Money up to \$15,000 value in training, education and development savings and pay less than \$3,000!! (including registration and hotel)
- **3** Get a year's worth of World Class education & a lifetime of contacts in 1 week!
- 4 Network with the Best in the Industry: Peers, IBM execs, SME's & Thought leaders.
- **5** Take advantage of this **exclusive Offer TODAY at ibm.com/impact**

Offer expires February 28th, 2010

Let's Build a Smarter Planet on System z

