IBM's System z Forum

Make the most of your mainframe.

System z Software Update – Q3 2012

Steve Talbot-Walsh

Senior System zSW Client Architect (zCA), zEvangelist and zChampion

System z Software 2012 Q3 Announcements
Making the mainframe even more scalable, available and secure

Steve Talbot-Walsh,
Senior System zSW Client Architect (zCA), zEvangelist and zChampion

August 2012

The New "Normal"
The CIO's Balancing Act — Optimize, Grow, Comply

Cost 'Take-Out'

- Datacenter Consolidation
- Standardization
- Virtualization
- Cloud?
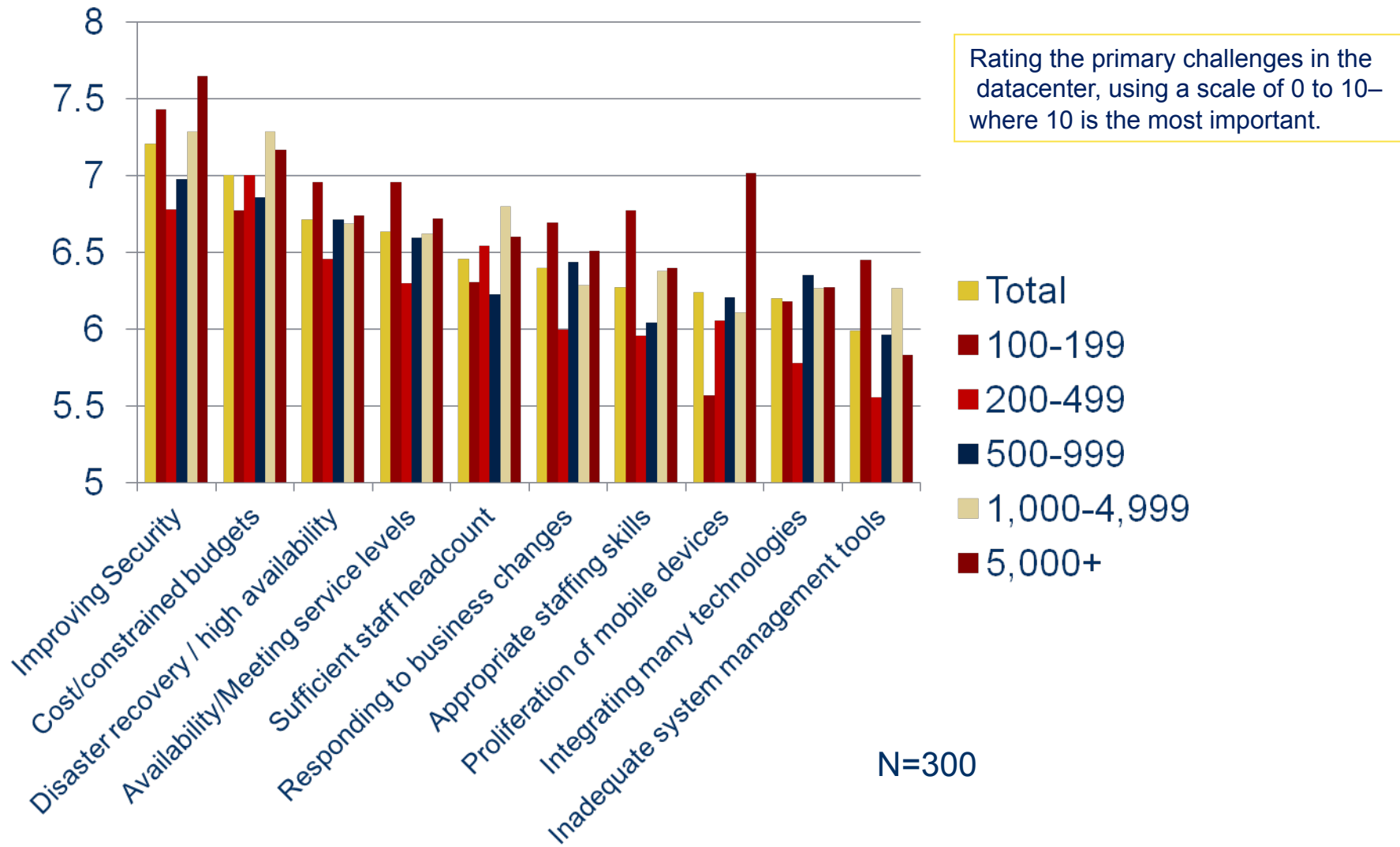- Outsourcing?

Business Alignment

- Metrics (Measurement)
- Collaboration
- LoB Application Modernization
- Business Analytics

Risk Management

- IT Governance
- Business Continuity
- Disaster Recovery
- Security
- Compliance

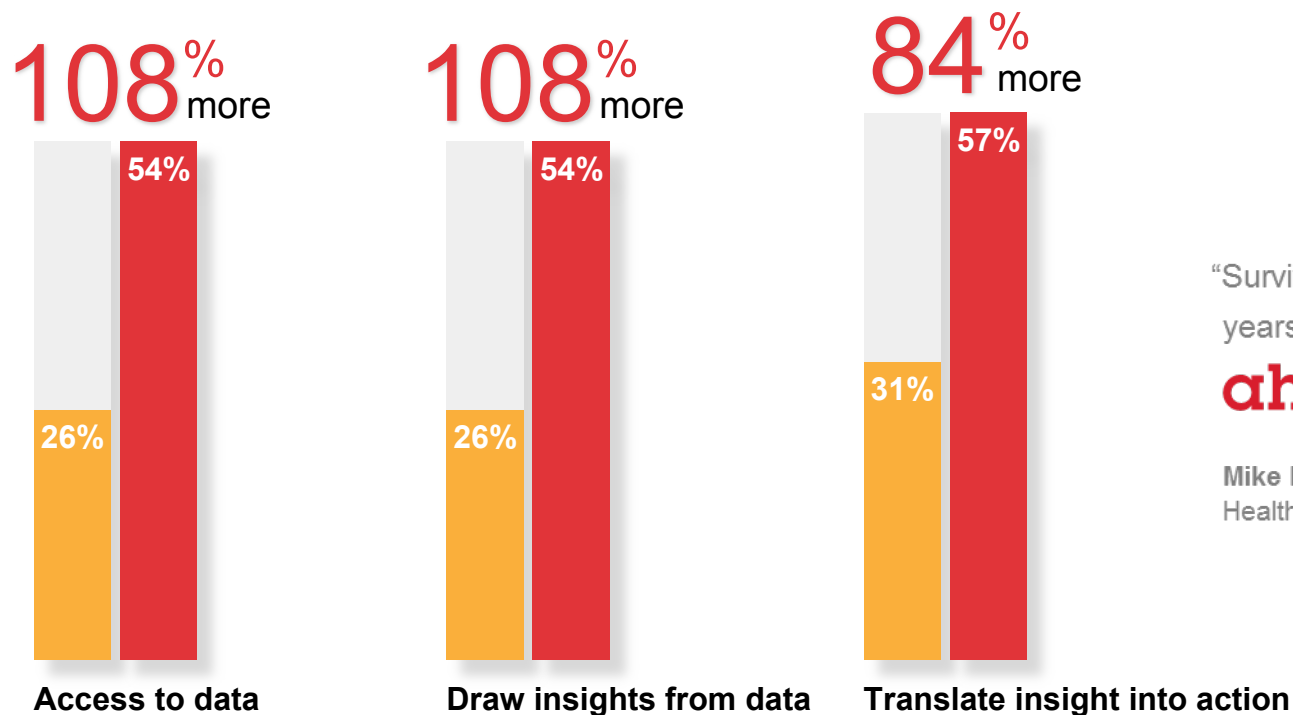# Mapping to Top Concerns for IT Managers: IDC Server Group Study, 2011

Rating the primary challenges in the datacenter, using a scale of 0 to 10– where 10 is the most important.

Legend:
- Total
- 100-199
- 200-499
- 500-999
- 1,000-4,999
- 5,000+

Categories:
- Improving Security
- Cost/constrained budgets
- Disaster recovery / high availability
- Availability/Meeting service levels
- Sufficient staff headcount
- Responding to business changes
- Appropriate staffing skills
- Proliferation of mobile devices
- Integrating many technologies
- Inadequate system management tools

N=300

IBM Global 2012 CEO Study - Outperformers are twice as good at deriving value from data – key to engaging customers as individuals

Outperformers strongly differentiate their organizations in three key areas

■ Outperformers
■ Underperformers

108%more

54%

26%

Access to data

108%more

54%

26%

Draw insights from data

84%more
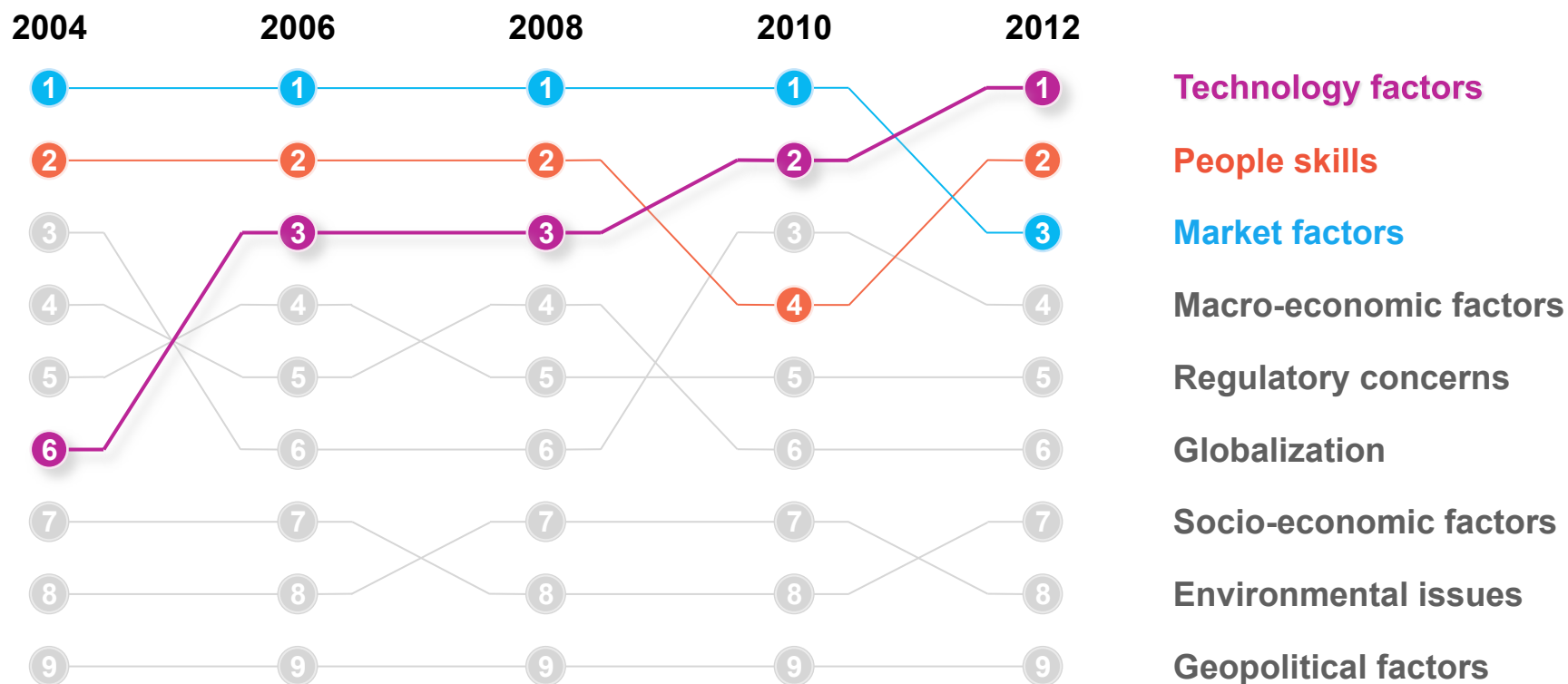
57%

31%

Translate insight into action

"Survival skill 101 for the next five years will be **deriving insight ahead of peers.**"

Mike Rillstone, CEO,
Health Support Services NSW

Source: Q22 "How good is your organization at driving value from data? [Today]" (n=631 to 636)

For the first time, CEOs identify technology as the most important external force impacting their organizations

External forces that will impact the organization

2004	2006	2008	2010	2012	
1	1	1	1	1	**Technology factors**
2	2	2	2	2	**People skills**
3	3	3	3	3	**Market factors**
4	4	4	4	4	**Macro-economic factors**
5	5	5	5	5	**Regulatory concerns**
6	6	6	6	6	**Globalization**
7	7	7	7	7	**Socio-economic factors**
8	8	8	8	8	**Environmental issues**
9	9	9	9	9	**Geopolitical factors**

Source: Q1 "What are the most important external forces that will impact your organization over the next 3 to 5 years?" (n=1709)

System z software announcements accelerate key CEO initiatives

New!

Analytics and Data Management	Security	Mobility	Innovation
▪ SPSS Statistics for Linux on System z ▪ DB2 for z/OS Tools	▪ IBM Security zSecure Administration ▪ IBM Security zSecure Compliance and Auditing ▪ IBM Security zSecure Compliance and Administration ▪ IBM Security zSecure Manager for RACF z/VM	▪ Worklight on Linux on z ▪ IBM Intranet Experience Suite	▪ Rational Developer for System z ▪ Continuous Integration Solution for System z

Gain value from Predictive Analytics
IBM SPSS Statistics v21 for Linux on System z

- **IBM SPSS Statistics v21 for Linux on System z**
  identifies trends to produce more accurate forecasts and
  solves business and research problems with ad hoc analysis,
  hypothesis testing and predictive analytics

  - ✓ Simulation: Runs "what if" scenarios" to build better models
    and assess risk when inputs and outcomes are uncertain

  - ✓ Big Data: Includes enhancements to client/server
    technology to improve performance and gives organizations
    more flexibility when dealing with large scales of data

  - ✓ Compatibility: Integrate better with Cognos and Java plug-
    ins among other technologies and tools

  - ✓ Productivity: Offers improvements to existing technology
    through usability and visualization enhancements

*Blue Insight offers analytic solutions to more than 390 teams
and nearly 200,000 end users saving ~$250K for every new project*

# Optimizing data performance and management of DB2 for z/OS
DB2 for z/OS Tools

- **DB2 Sort for z/OS V1.3** delivers **_GREATER_** CPU and elapsed time reductions and zIIP offload as well as support for additional DB2 Tools, including Change Accumulation Tool for z/OS V3.1.

- **DB2 High Performance Unload for z/OS V4.2** provides CPU and elapsed time improvements for key z/OS workloads.

- **DB2 Utilities Solution Pack V1.1** - an integrated option of utility management products to super charge your DB2 Utilities!

- **DB2 Administration Tool for z/OS V10.2 and DB2 Object Comparison Tool V10.2** provide many new enhancements to change management functionality as well as integration with the IBM Tools Customizer (TCz) for z/OS

- **DB2 Table Editor V4.4** now supports the IBM Tools Customizer (TCz) for z/OS to simplify the install and configuration process

- **DB2 Performance Toolkit for z/OS the SAP Edition V2.3 includes** Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS V5.1.1 and DB2 Query Monitor for z/OS V3.1 with enhanced Stored Procedure Monitoring This feature extends End-to-End SQL monitoring (the Extended Insight feature) with support for distributed SQL accessing DB2 for z/OS.

Automate audit and compliance reporting and simplify administration
IBM Security zSecure Suite

New!

- **Security zSecure suite** provides cost-effective security administration, improves service by detecting threats, and reduces risk with automated audit and compliance reporting.

  - ✓ Pass audits more easily

  - ✓ Improved security incident handling

  - ✓ Increase operational effectiveness

  - ✓ Reduce administration time, effort and cost

  - ✓ Suite includes
    - IBM Security zSecure Compliance and Auditing
    - IBM Security zSecure Administration
    - IBM Security zSecure Compliance and Administration
    - IBM Security zSecure Manager for RACF z/VM
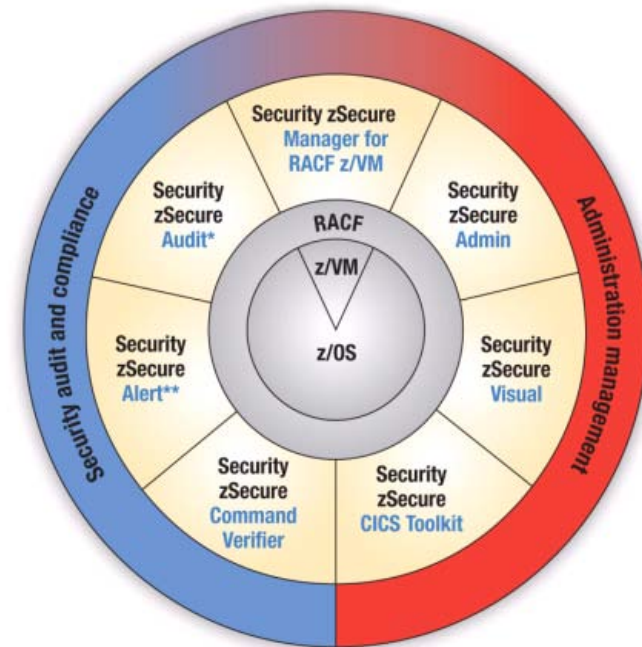
Up to **70%** *of audit and compliance overhead*

Up to **52%** *lower security administration efforts on mainframe security*

Automate audit and compliance reporting and simplify administration

## IBM Security zSecure Suite Bundles

- **Security zSecure Compliance and Auditing –** Allows you to aggregate, analyze and monitor for threats by auditing security changes that affect security information from z/OS, RACF, CICS, IMS, DB2, Unix System Services (USS), Linux under System and other mainframe components:

  - zSecure **Audit**, **Alert** and **Command Verifier**

- **Security zSecure Administration –** Simplifies mainframe security management with enhanced user-friendly interfaces and simplified User, Group and Resource management:

  - zSecure **Admin** and zSecure **Visual**

- **Security zSecure Compliance and Administration –** Provides simplified security management along with security event monitoring, threat analysis and audit reporting to comply with regulations:

  - Combines the IBM Security zSecure Compliance and Auditing and Administration for a more comprehensive offering.

Standard monitoring across z/OS, Networking and Storage
Tivoli OMEGAMON for z/OS Management Suite v4.2.0 New!

- **Visibility for z/OS** provides a complete z/OS platform management and monitoring capability for the operating system, networks and storage

- **Integrates …**

  - Management of z/OS operating system, network and storage management for greater visibility, control and automation of your z/OS environment

  - z/OS management functions and alerts facilitating a more efficient mainframe operation

- **Included components:**

  - OMEGAMON XE on z/OS

  - OMEGAMON XE for Storage on z/OS

  - OMEGAMON XE for Mainframe Networks

  - OMEGAMON DE on z/OS
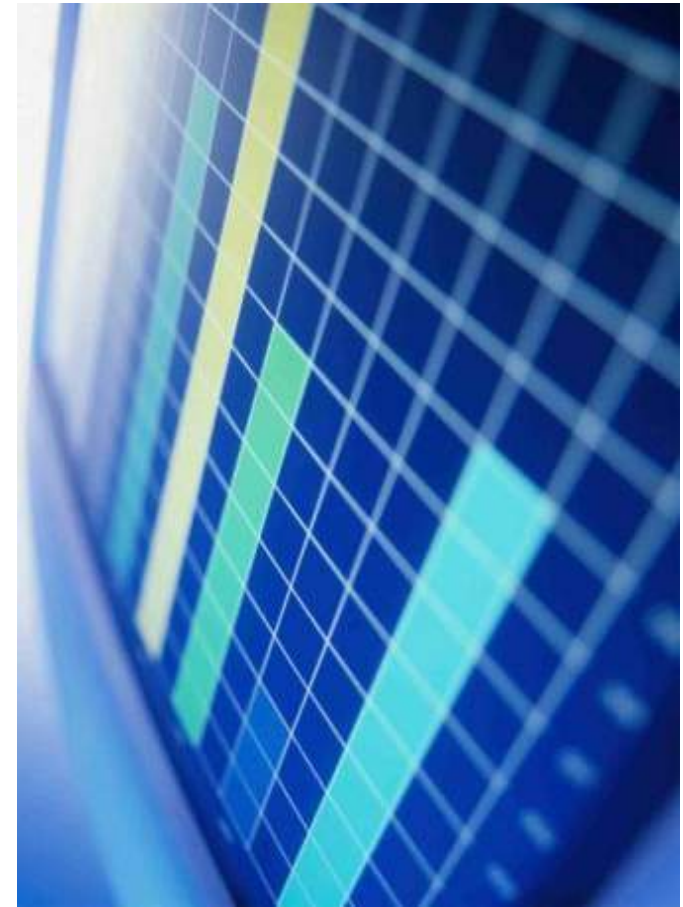
Native, web or hybrid mobile-app development
IBM Mobile Foundation V5.0 including Worklight V5.0 on Linux on z

- **IBM Mobile Foundation V5.0 including Worklight V5.0** helps manage HTML5, hybrid, and native applications using a powerful and flexible mobile IDE. Next-generation mobile middleware, end-to-end security, and integrated management and analytics capabilities are built in.

  - ✓ Uses a standards-based technologies and tools, mobile-optimized middleware, a variety of security mechanisms and integrated management and analytics capabilities.

  - ✓ Enables the creation of rich, cross-platform apps without the use of code translation, proprietary interpreters or unpopular scripting languages

FREE 30 day download trial here - http://www.ibm.com/developerworks/mobile/worklight.html

New!

Coming soon….

NEW! *Redguide*

"Transaction Processing: Past, Present and Future"

Delivering exception web experiences on Linux on z
IBM Intranet Experience Suite V8.0

- **IBM Intranet Experience Suite V8.0** on Linux on z delivers employee web experiences that are integrated, engaging, social, and consistent allowing employees to collaborate effectively, improve business productivity, and deliver better business results.

  - ✓ Delivers infused social content and services for portal or web content management

  - ✓ Develop and render content and applications that display perfectly on smart phones, desktops, or just about any device

  - ✓ Delivers content relevant to each user, in a way that is compelling to each user

  - ✓ Enables site designers to create web portal pages using HTML and web content, feeds, portlets, iWidgets, and more.

The global mobile worker population will represent nearly 35% of the worldwide workforce in 2013*

Source: The Top Ten Intranet and Digital Workplace Predictions for 2011 December 2010

Innovate more, maintain less
Rational Developer for System z Family V8.5

- **Rational Developer for System z Family v8.5** uses industry standards to simplify the development of rich client interfaces, web user interfaces, traditional terminal interfaces, and back-end, business logic deployable to System z

  - ✓ Improved & better Integrated CLM Solutions

  - ✓ Enhanced application quality and structure analysis capabilities

  - ✓ Packaging simplification

IT ERGO *has over* ***200 developers*** *developing mainframe applications using Rational Developer tools with significant gain in productivity*

IBM

Expedite mainframe application delivery
IBM Continuous integration for System z (CIz)

New!

- **IBM Continuous integration for System z** provides a complete solution for planning, automating, and monitoring application quality and testing, as well as linking testing to build and provisioning of application environments as a seamless process

  - ✓ Automate mainframe and multiplatform application interface testing

  - ✓ Determine status of cross-platform application testing progress and quality in real-time

  - ✓ Lower cost of testing via automated deployment to a low-cost System z test environment, while reducing mainframe test MIPS consumption

caceis
INVESTOR SERVICES *uses Rational Team Concert to help reduce inconsistencies*

between open platform and mainframe components reducing costs

IBM CICS Development team switches to agile development methods

The Current: IBM Rational Team Concert and IBM Rational Developer for System z

Development team issues

- *Using waterfall method, integration testing was late, complex defects weren't identified in time, and customer feedback hard to incorporate*

- *Number of different development tools in use, source code in separate systems*

Solution

- *Transition to agile development one month iterations for coding, testing and documentation*

- *Single non-proprietary environment for delivery of software*

Benefits:
- ✓ Greater visibility if work items are changed, emails sent to relevant parties.
- ✓ Dashboards for instant status reporting reducing the amount of preparation required for status meetings by **75%** and number of meetings by one third
- ✓ Increased flexibility in resource pool because development and service teams working in an identical environment.
- ✓ Rewritten build is much easier to maintain with **only two shared people** vs. three shared people.

THANK YOU