2012 IBM System z Technology Summit

Welcome and Introduction
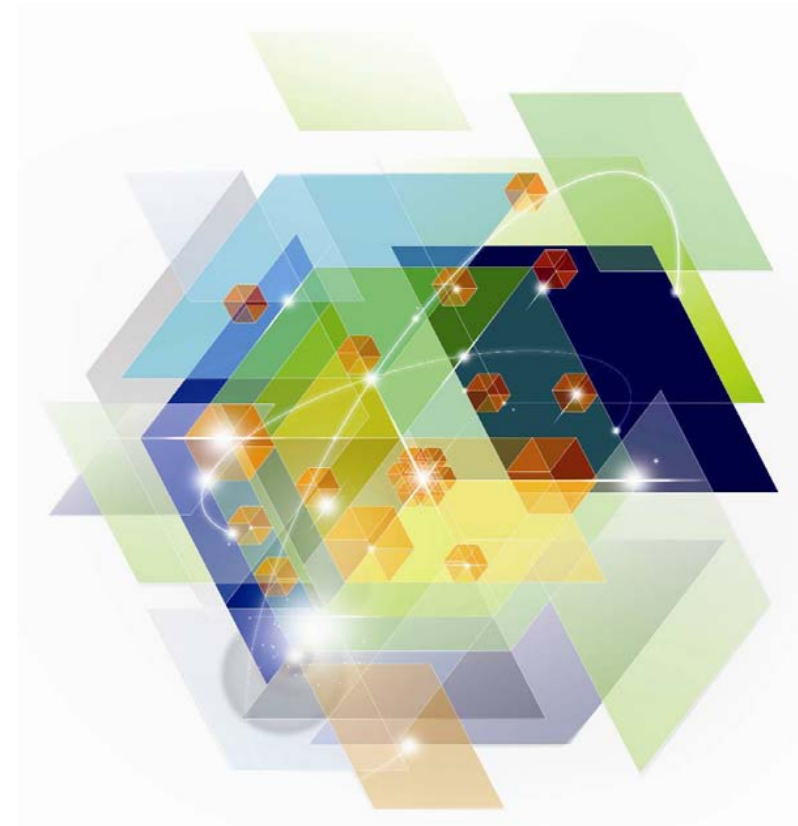
2012 IBM System z Technology Summit

Gain insight into running a smarter business with the latest innovation in mainframe Technology

Today's Program designed to provide:

– Practical tips on best practices when implementing new technology

– Guidance on where to focus your efforts for the greatest returns

– How to reduce the burden of managing complexity

- **Grouped into five unique tracks**

  – aligned by job responsibility

  – focused on associated topics of interest.

System z Strategy and Insight

As the world becomes more instrumented, interconnected and intelligent, the CIO role holds even more importance

Business needs and expectations drive the CIO's mandate to use technology

58% ▶

CIOs report their organizations have largely integrated business and technology to innovate
CIOs have a seat at the executive table to help infuse technology into products, services and processes

68% ▶

Senior management would rank technology as totally critical to the success of the business
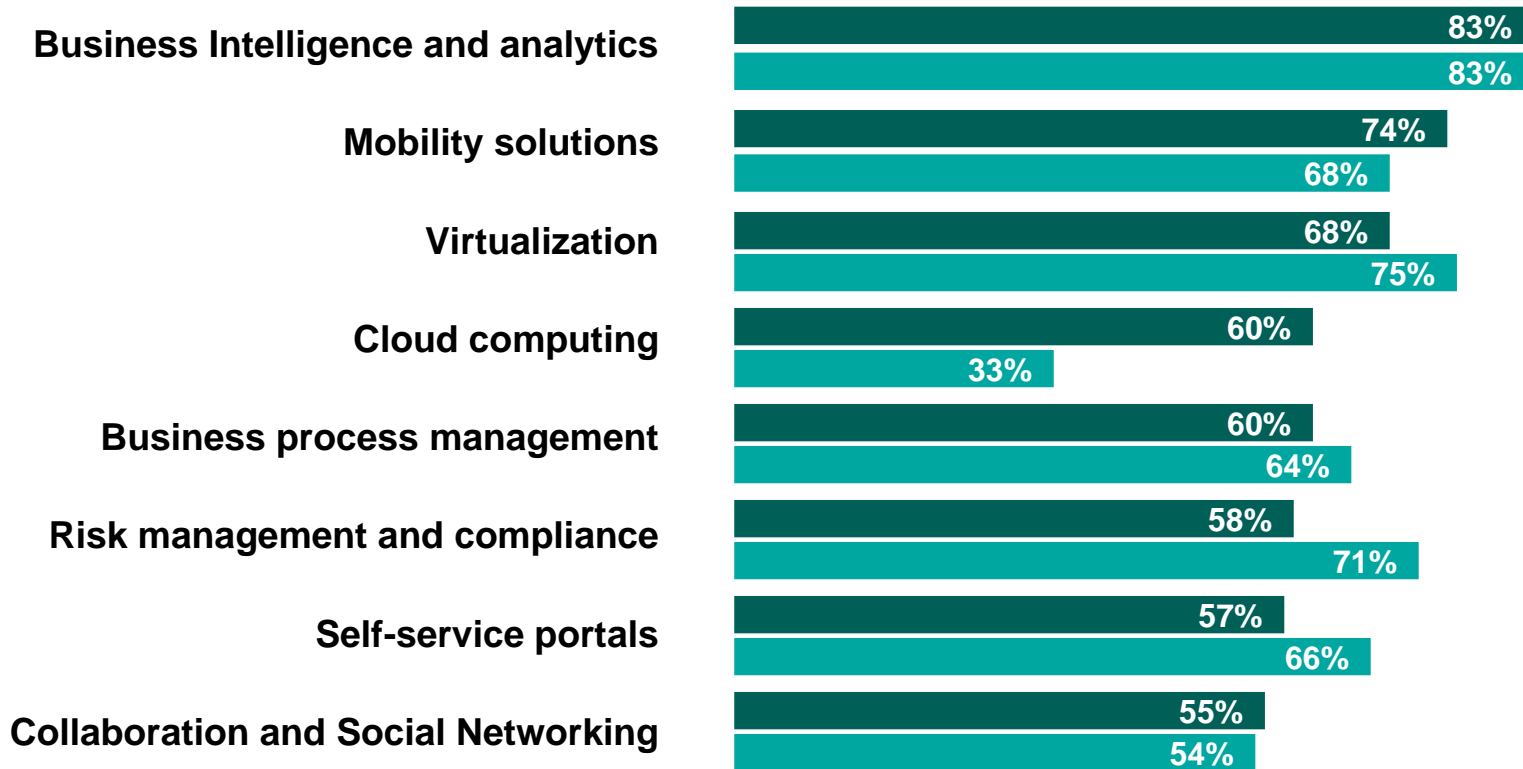*A clear mandate empowers CIOs to help the business get the most out of technology*

"We will provide the appropriate technology for the continuously changing business environment and more accurate information to the business."

Zsolt Rasztovits, CIO MKB Bank Zrt.

Source: 2011 CIO Study, Questions D.C: "To what extent has your organization integrated business and technology to innovate?"; D.E: "What score would the entire senior management team give technology for its contribution to the business?" (n=3,018)

CIO visionary plans are evolving: business intelligence and analytics remain at the top, with cloud computing moving into the top four

Most important visionary plan elements
(Interviewed CIOs could select as many as they wanted)

Element	2009	2011
Business Intelligence and analytics	83%	83%
Mobility solutions	68%	74%
Virtualization	75%	68%
Cloud computing	33%	60%
Business process management	64%	60%
Risk management and compliance	71%	58%
Self-service portals	66%	57%
Collaboration and Social Networking	54%	55%

2009   2011

Source: 2011 CIO Study, Q12: "Which visionary plans do you have to increase competitiveness over the next 3 to 5 years?"(n=3,018)

The inefficiencies of traditional computing get in the way

At its current pace,

IT complexity is doubling every two years.[1]

More than 70% of budgets on average is **spent on ops and maintenance** – and this percentage is growing[2]

2/3 of companies go over schedule on their project/ solution deployments[3]

"**Our IT systems have become complex and difficult to manage**, and as a consequence IT is increasingly finding itself in the position of being a barrier to innovation rather than an enabler of it"

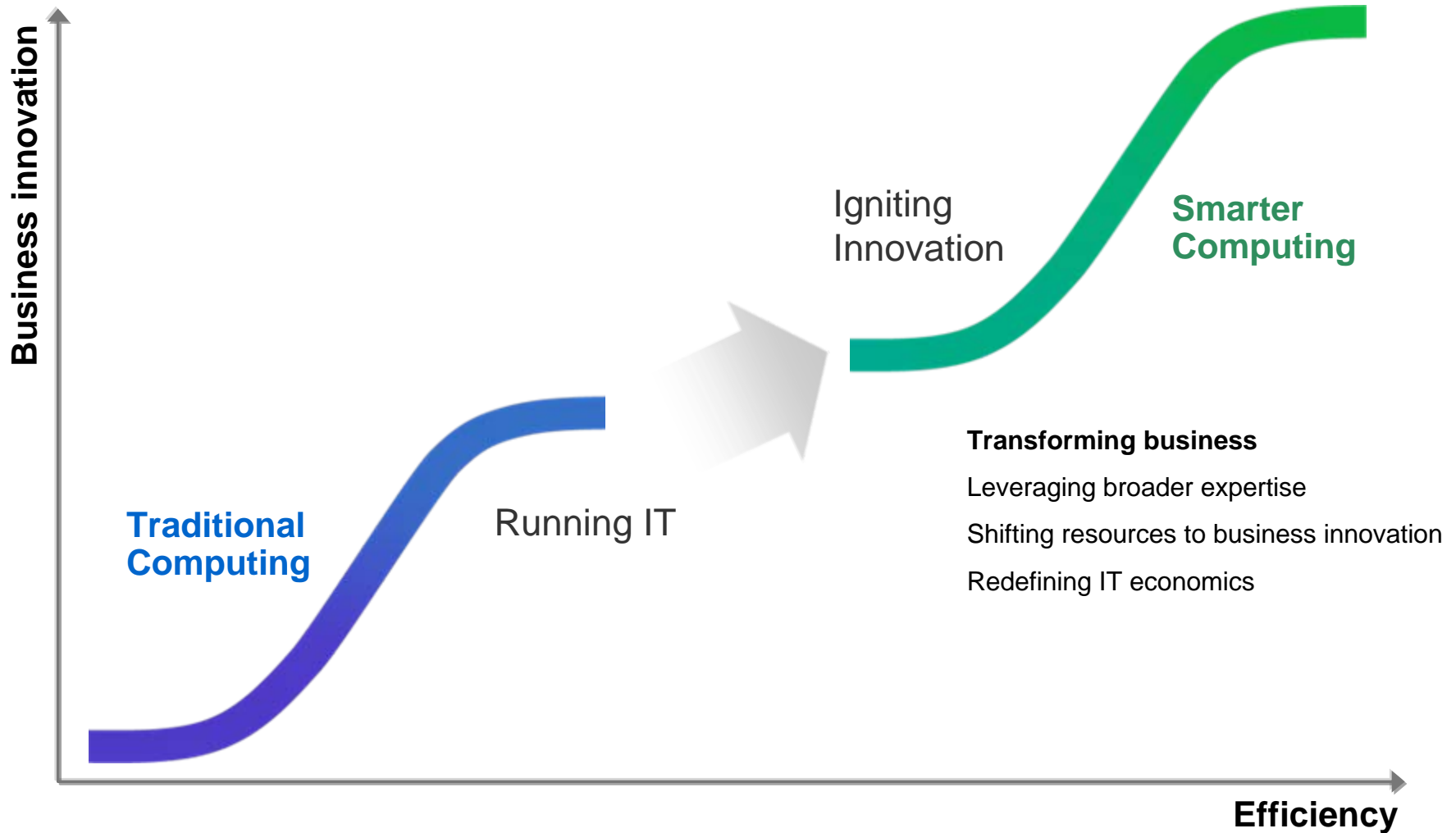**The Bathwick Group**, The road to Smarter Computing

[1] Enterprise Systems Journal, "5 Best Practices for Reducing IT Complexity")
[2] IDC,Analyst Matt Eastwood, IDC Directions Presentation, 2011
[3] IBM Market Intelligence Time-To-Value Study, National Analysts, November 2011

The model must shift to Smarter Computing
The IT infrastructure that enables a Smarter Planet

Business innovation (y-axis)

Traditional Computing

Running IT

Igniting Innovation

Smarter Computing

Transforming business

Leveraging broader expertise

Shifting resources to business innovation

Redefining IT economics

Efficiency (x-axis)

7

System z solving key CIO initiatives

Cloud Computing
Advanced virtualization with support for thousands of workloads on a single system with central management of resources

Business Intelligence and analytics
High performance analytics enabling real-time intelligent interactions during the lifecycle of business transactions. Extreme fast query times

Enterprise Modernization
Unified modern development tools that can be used and reused for any platform.

Service Management
Central point of control for enterprise computing with integrated service management tools encompassing multiple technologies

Business Process Management
Enable organizational policies and the operational decisions associated with those policies for mainframe applications

Consolidation
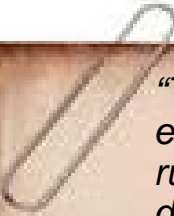Huge economies of scale through consolidation of workloads from distributed to Linux on System z
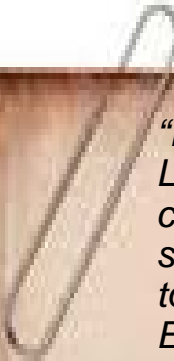
Customers are seeing value with zEnterprise system
Smart Computing for Smart Businesses

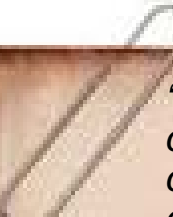| Scalability	Availability	Reliability	Flexibility
embasa	Servimàtica	renfe	Phoenics
Avoided introducing additional server platforms by implementing new SAP applications and consolidating to the zEnterprise. They *reduced administration workload and saved one full-time employee equivalent.*	**The zEnterprise system helped Servimatica to meet agreed service levels with clients and boost IT department productivity,** *contributing to IT savings of 10 percent and overall increased profitability.*	**Deploying the IBM zEnterprise 196 has provided RENFE with the capacity to** *sell up to six online tickets per second, enabling a daily turnover of more than 6 million Euros in online ticket sales.*	**zEnterprise matched the** *BG-Phoenics IT strategy of selecting different platforms based on different application needs.* **BG Phoenics moved its infrastructure servers from standalone Power servers to zBX**

What are analysts saying about System z?

"The new zEnterprise hybrid environment (z196, zBX, x-blades) running 100 Linux instances, delivers more than a 20% cost advantage." − Radding Group

"If you are running more than 50 Linux servers, or have an Oracle cluster with more than 10 nodes you should at the very least, be prepared to consider System z or the Enterprise Linux server as a "scale out within" alternative to deploying cabinets crammed with blades.− The Bathwick Group

"if a private cloud infrastructure is on your horizon, the zEnterprise hybrid architecture should be high on your list for serious consideration."− Clipper Group

"By enabling Windows to run under the control of IBM zEnterprise, IT executives can now truly unite their entire enterprise computing environment under one, very advanced management environment."− Clabby Analytics

System z – the platform of choice for scalability, flexibility, reliability and security

Scalability

- The zEnterprise system delivers the world's most efficient virtualization designed to support over 13,000 Virtual Machines per Server and over 100,000 Virtual Machines in a cluster

Flexibility

- 7,000+ are applications supported on z/OS & Linux for System z

Reliability

- Continuous operations designed to prevent scheduled and unscheduled outages and deliver 99.999% availability

Security

- Cryptographic coprocessors built in to provide the highest security rating (EAL5) for any commercially available server

- z/OS and z/VM are the only operating systems that offer a System Integrity statement

System z is the platform of choice for 96 out of the Top 100 Banks in the World

System z: Free Offer to help you optimize infrastructure

zRight fit for purpose Infrastructure Architecture Workshop

- Tailored to individual customer needs

- Day 1: Presentations for level setting and platform education, if needed.

- Review conducted of the client's Architectural Diagram of the targeted workload, identifying any missing components in the solution architecture. Requirements prioritized and weighted for importance

- IBM architects will evaluate the platforms over the next 2-3 weeks for their ability to meet the requirements.

- Day 2: Begins with the IBM facilitator presenting the findings and discussing the results.

Program Overview - Tracks- Breakout Sessions begin at 9:15 AM

Track #	Session Topics
1 - zEnterprise - The Ideal basis for Smarter Computing **Designed for IT Managers, IT Enterprise Architects**	• **zEnterprise - An ideal platform for workload optimization** • **Simplify and compress your hardware footprint with zEnterprise** • **System z - Still the best place for data** • **Improving service delivery with private cloud computing** • **The reality of rehosting** • **Tales from the Eagle TCO team**
2 – DB2 for z/OS Technical Update **Designed for Database Administrators and Database Managers**	• **Introduction and DB2 business value assessment** • **Leveraging DB2 for z/OS for your warehouse and business analytics requirements** • **DB2 10 overview and migration planning** • **Migration best practices and customer experiences with DB2 10** • **DB2: Secrets of scalability** • **Migrating to DB2 10? Get maximum CPU benefit with minimum impact** • **A proactive approach to security, audit and compliance with DB2 for z/OS** • **Beyond Migration: Reduce CPU in DB2 10 using DB2 Utilities and Tools**
3 – Smarter Development and Deployment **Designed for Application Developers and Application Architects**	• **Enterprise Modernization and smarter development: Strategy and overview** • **Quickly identify, research and fix abends in a critical System z® production application - Part I** • **Quickly identify, research and fix abends in a critical System z production application - Part II** • **Research and fix a performance problem in a critical CICS® production environment - Part I** • **Research and fix a performance problem in a critical CICS production environment - Part II** • **Getting started with smarter development for modernizing the enterprise**
4 – Application Infrastructure Modernization for Business Agility **Designed for System Analysts, IT Architects, CICS Developers**	• **System z Business Process Management- High-performance process agility for business growth** • **System z Decision Management - Where business rules and events are transformed** • **What's new in WebSphere® MQ and Message Broker - Creating an interconnected enterprise** • **CICS - Architecting for your future and why CICS matters to you** • **CICS - Minimize costs and maximize your CICS investments** • **CICS - Strength throughout the ecosystem. Are you tooled up?**
5- Data Center Operations and Systems Management Update **Designed for IT Operations Management and Systems Programmers**	• **Getting started with private clouds on System z** • **Successful System z clouds need good visibility, control and automation from Tivoli®** • **Solving the server sprawl problem with effective IT optimization** • **Increasing availability and productivity with redesigned Tivoli OMEGAMON® monitoring & analytics** • **Creating an infrastructure tuned to the task with z/VM®** • **Maximize availability and performance with Tivoli System Automation solutions**

Thank you