IBM主机软件最新策略及发展

IBM软件部 主机软件 李辉

Thinking Beyond Today

ZSP03129-USEN-00
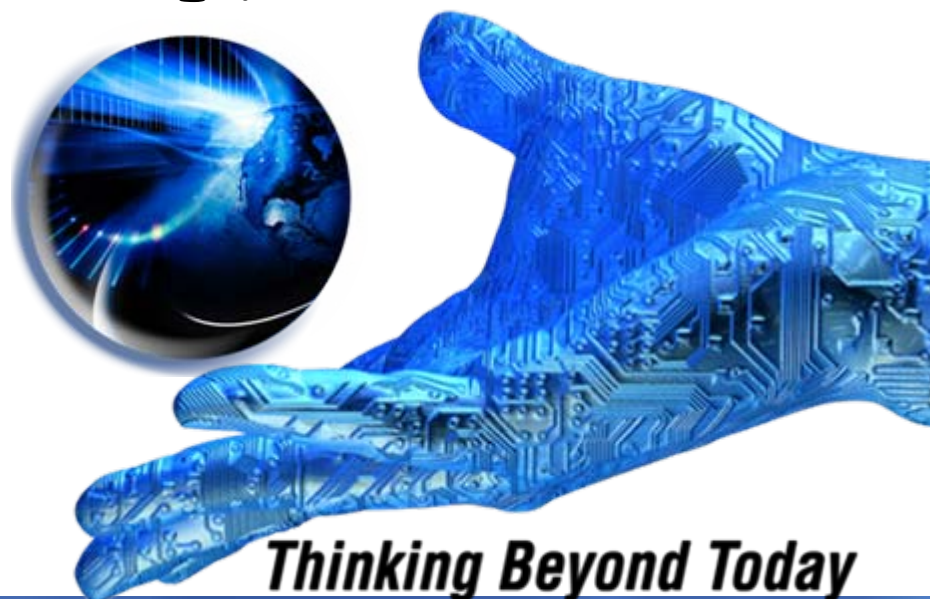
日程

- **IBM System z10™
  Business Class (z10™ BC)** 平台软件发展策略

- 信息随需应变（**Information on Demand**）

- 应用程序的开发和部署

- 应用与集成中间件

- 企业级的服务管理

- 总结

主机软件家族全面增强，更好地发挥z10 BC效能

System z下一代商业智能服务

Cognos® 8 BI for Linux® on System z
InfoSphere™ Warehouse for System z

支持 people, process 以及information 的全面解决方案

Smart SOA on System z
WebSphere® Portal for Linux & z/OS®

加速System z开发技术创新
Rational® Application Development and Delivery

对System z已经整个企业的可视化，自动化的控制管理

Tivoli® Service Management Center for System z
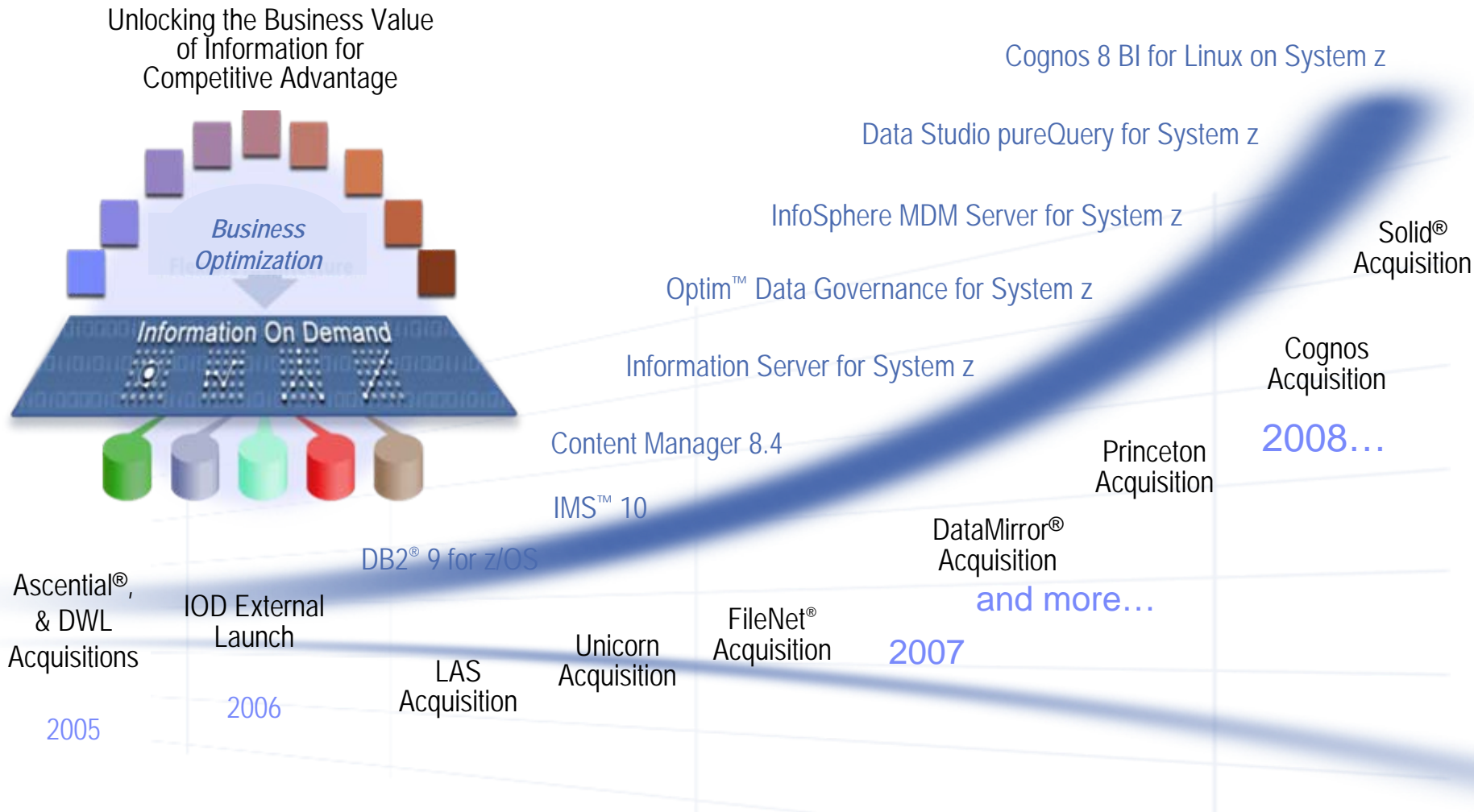
软件为z10 BC全面优化性能，提供更高的服务水平和总体拥有成本

Rational. **WebSphere.** **Information Management** **Lotus.** **Tivoli.**

信息随需应变（**Information On Demand**）
通过不断地投入和创新，提升*System z*的全面处理能力

Unlocking the Business Value
of Information for
Competitive Advantage

Business Optimization

Information On Demand

Cognos 8 BI for Linux on System z

Data Studio pureQuery for System z

InfoSphere MDM Server for System z

Optim™ Data Governance for System z

Information Server for System z

Content Manager 8.4

IMS™ 10

DB2® 9 for z/OS

Solid®
Acquisition

Cognos
Acquisition

2008…

Princeton
Acquisition

DataMirror®
Acquisition

and more…

2007

FileNet®
Acquisition

Unicorn
Acquisition

Ascential®,
& DWL
Acquisitions

IOD External
Launch

LAS
Acquisition

2006

2005

信息随需应变（Information On Demand）
Q4'08将有更多新产品全面增强信息随需应变处理能力

Information Agenda

Financial Risk Insight

Workforce Optimization

Dynamic Supply Chain

Customer & Product Profitability

Multi-channel Marketing

Business Optimization

Better Business Outcomes

2008

Business Intelligence

▶ Planning

▶ Financial Analysis

Updated In Q4

Business Intelligence & Performance Management

Cognos 8 BI for Linux on System z

2008

▶ Information Warehouse

▶ Master Data Management

▶ Information Integration

Coming In Q4

Information Integration, Warehousing & Management

InfoSphere Warehouse on System z
Information Server for System z
InfoSphere MDM Server for System z
IMS SOA Integration Suite

2007

SAP   amdocs   Silicon Plains   PeopleSoft.

Transactional Processes

Content-driven Processes

Data Management   Content Management

Coming In Q4

Data Management
Enterprise Content Management

DB2 9 for z/OS
IMS 11
Content Management for System z
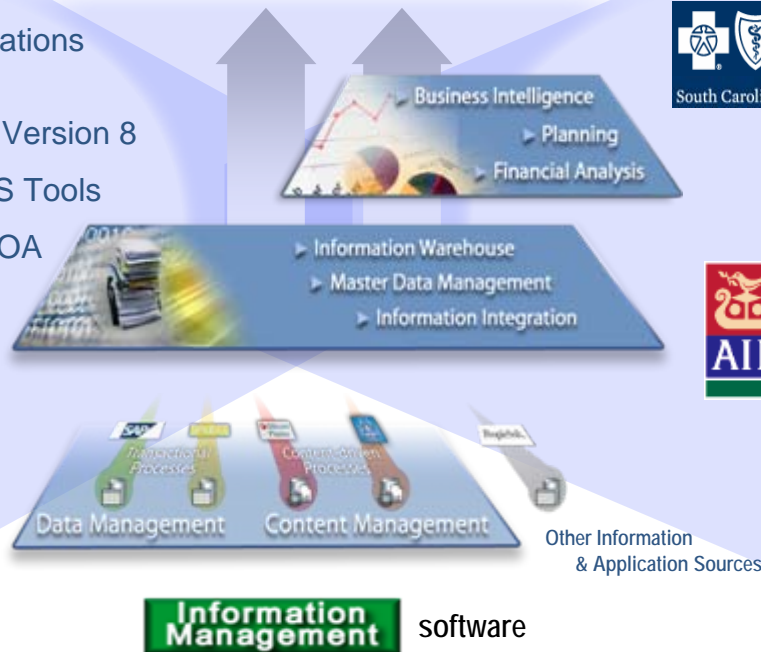*Optim for System z*

Other Information & Application Sources

IBM信息管理软件
充分利用*System z* 的强大优势支持客户成长并成就未来

Workload Consolidation

Winn✓Dixie
Getting better all the time.

- All financial & ERP applications on IBM System z9® with DB2 for z/OS
  - *Decreased IT staff by one-third*

System z 业务驱动力

- 1,000+ DB2 for z/OS SAP installations
- More than 98% of top 200 customers are on DB2 for z/OS, Version 8
- #1 market position for DB2 & IMS Tools
- Nearly 500 IMS participants in SOA workshops in 2008 alone
- Strong IFL Adoption supporting IOD solution deployments

Linux on System z

BlueCross BlueShield
South Carolina

Information On Demand environment delivers improved services, increased information availability and lower overall health care cost

Business Intelligence
- Planning
- Financial Analysis

Information Warehouse
- Master Data Management
- Information Integration

Packaged Applications

AIB

i-flex core banking application ported to System z with a 500% performance increase over Oracle

Data Management   Content Management

Other Information & Application Sources

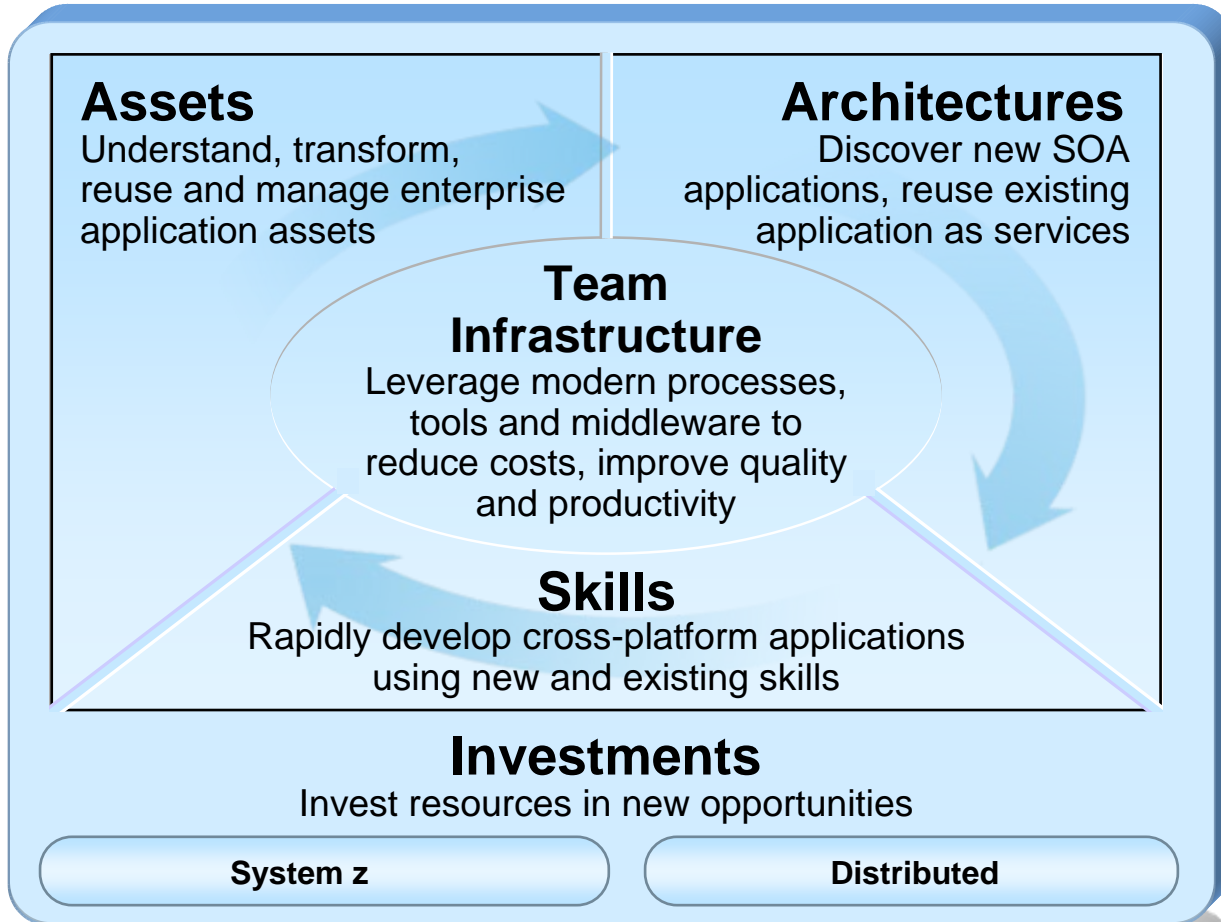**Information Management** software

Warehousing

- Industry first view of patient data drives cancer research
  - *Received TDWI Best Practices Award*

Memorial Sloan-Kettering Cancer Center
The Best Cancer Care. Anywhere.

主机平台加速应用开发创新
提高企业软件资产重用和技能协同

Assets
Understand, transform, reuse and manage enterprise application assets

Architectures
Discover new SOA applications, reuse existing application as services

Team Infrastructure
Leverage modern processes, tools and middleware to reduce costs, improve quality and productivity

Skills
Rapidly develop cross-platform applications using new and existing skills

Investments
Invest resources in new opportunities

System z

Distributed

✓ Leverage existing and new staff on multi-platform projects

✓ Develop in a geographically dispersed environment

✓ Improve quality and flexibility with a consolidated team infrastructure

✓ Leverage value of existing assets

✓ Develop new workloads with SOA and Web technology advancements

✓ Reduce maintenance costs

System z Sandbox: Try our latest products in a virtual online environment
http://www.**ibm.com**/developerworks/downloads/emsandbox/systemz.html

For more information, visit:
www.**ibm.com**/rational/modernization

总结 –
System z 软件加速创新
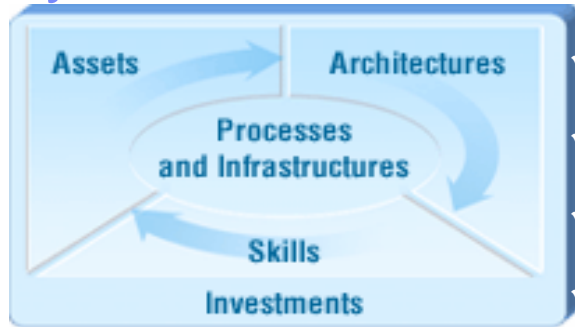
重用企业资产和技能以提供附加价值

通过先机技术以实现创新

改善团队协作与分工合作

提高业务的灵活性和软件生命周期的变更管理

New and Enhanced!

Rational software **New & Enhanced Capabilities**

Rational Asset Analyzer v5.5
Gain business intelligence and technical analysis of application systems

Understand Assets

Rational Business Developer v7.5.1
Rational Developer for System z v7.5
Rational Host Access Transformation Services v7.5
Leverage "EGL" to accelerate Web 2.0 and SOA development on System z; increase productivity and skills flexibility for COBOL and PL/I developers

Drive Innovation

Rational Team Concert for System z v1.0.1
Rational ClearCase®, ClearQuest® & Build Forge® v7.1
Deploy common team infrastructure and tooling to improve collaboration and governance; Increasing productivity and reduced errors per build and release cycle

Enable Flexibility

![IBM]

System z加速软件创新
协助客户取得成功

Rational. software

IT项目 加速软件开发部署

- 整合并集成分布式应用至z/OS平台
- 建立跨平台的业务服务
- 扩展 COBOL 应用实现在线银行服务
- 打破技术隔离，提高生产力
- 建议统一的跨企业的开发团队

System z10

Building cross-platform applications

Fiserv.
- Deploying core banking application to System z with EGL
- Leveraging new and existing skills to build new apps

Deploying new workloads

THOMSON REUTERS
- Deploying new Java workloads with RDz
- Lowered costs by leveraging specialty processors

Unifying development platform

kfw BANKENGRUPPE
- Integrating Java™ and PL/I environments
- Improving productivity, reducing costs and enhancing product quality.

Modernizing mainframe development

HVB Information Services
UniCredit Group
- Integrating COBOL & Web environments
- Estimated 15% increase in development productivity and 10% increase in testing productivity

Unifying change management

kreditwerk
- Streamlined cross-platform development with ClearCase z/OS
- Lower infrastructure cost and better quality applications

Smart SOA: 在System z平台推进全球化经济

最大的 Smart SOA™ 客户群!

- **7022 Customers**

- **512** SOA-focused Customer Success Stories; **113** on ibm.com

财富500强前20名中的18个使用 WebSphere MQ

最强大的 SOA 生态环境

- **7420** SOA community business partners

90%的财富500强用户使用CICS® 最为教育中间件

无与伦比的 SOA 专家经验和投入

- **Trained IBM SOA community** over 100K people
- **13,000+** assets in the SOA business catalog (90% from business partners)
- **Broadest, Deepest** portfolio of SOA offerings

WebSphere: 最佳 SOA 运行平台
创新以成就今日灵活的业务要求

创建 Smart SOA 基础: 应用及服务重用

- Innovative, performance-based SOA Foundation – WebSphere Application Server V7
- Virtualization & consolidation for greater efficiency – Open Source Consolidation Package
- Simplification for faster time to market – CICS Explorer

创建 Smart SOA 基础: 链接SOA应用至更广的商业系统

- Delivering managed file & application integration – WebSphere MQ File Transfer Edition for z/OS
- Greater Empowerment with Web 2.0 & Mashups – CICS ATOM Feeds SupportPac™

流程的管理: 实时监控业务确保做出正确的决策

- CICS applications as a premier event source – CICS Events SupportPac
- Runtime supporting Linux on System z – WebSphere Business Events

新的业务增长，充分发挥主机的优势

WebSphere® software

IT 项目加速新业务创新

- 创建新的商业机会
- 整合业务处理流程
- 建立适应未来的架构发真的业务模型
- 整合各平台的应用以满足快速应变的需求
- 改善客户服务

Web access to data for new revenue opportunities

Land Registry Cymraeg

- Provided access to world's largest OLTP database via Web services
- New services result in £28 million in new fee revenue in one year

Sustainable Architecture for Today

- Application delivery time and costs reduced by half over previous practices
- Significant improvement in efficiency, productivity, business flexibility

SOA Messaging Backbone for the Enterprise

DATEV

"DATEV relies on a robust messaging backbone based on WebSphere MQ to reliably transfer messages between CICS and batch applications on z/OS and applications on distributed platforms such as UNIX® and Microsoft® Windows®."

New Customer Service using z/OS

Zagrebačka banka
UniCredit Group

- Modernizing APIs via Java
- Standard programming language and unified development efforts
- Simplified management and administration

### *Business Processes: Providing Service at a New Level*

BALL STATE UNIVERSITY

- Streamlining and automation of business processes in student registration
- Less involvement from Registration Staff
- Consistent data used for all business processes

全新的 **WebSphere Portal V6.1 for System z**
提供丰富的 *Web 2.0 支持 – 支持 z/OS 及Linux for System z*

- **用户贡献** to portal sites through our Web Content Management

- **简单夸素的开发部署**through Composite Application Templates and through Portlet Factory & Forms Designer

- **用户控制** of their pages through drag & drop portlet pallete and Google Gadget catalog

- 集成**Google Gadgets** 和 **iWidgets** – integrate thousands of additional applications

- **应用程序集成AJAX** 并支持 **REST** for core features - context menus, search menu, administration, drag and drop portlet palette

- **实时内容** – Give users one-click access to information that "pops" on the page
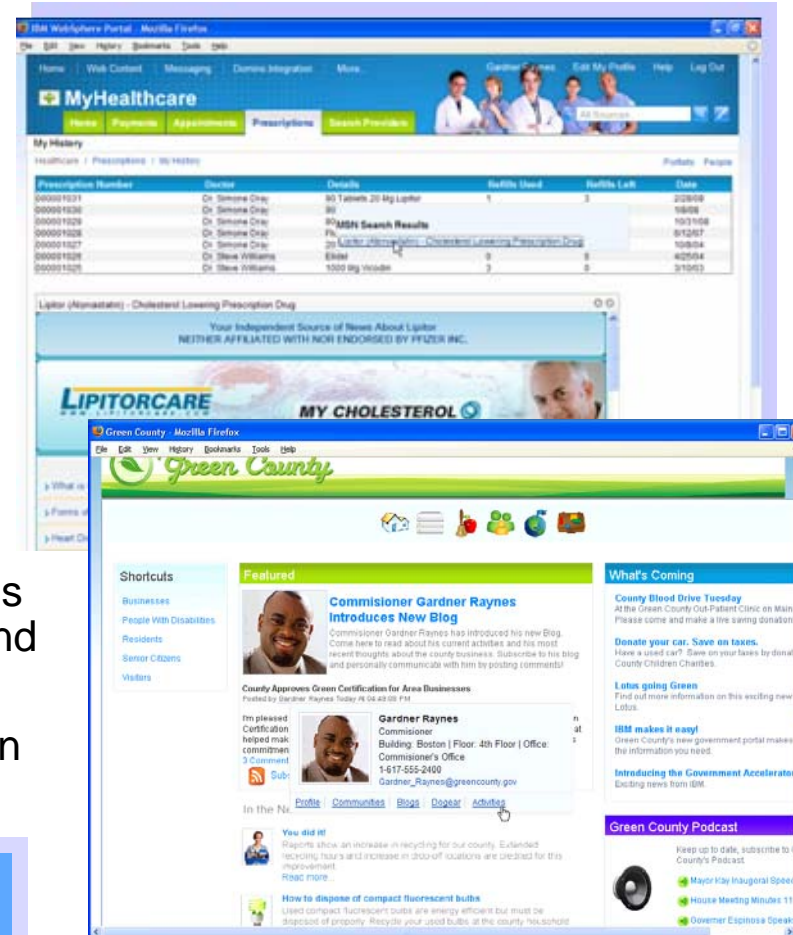
Rich, desktop-like application experiences improve performance and increase end user productivity and satisfaction

客户案例分享

USDA United States Department of Agriculture
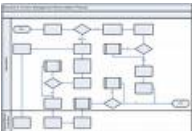

- USDA 提供世界级的，非常高可靠性的服务，为几百万用户和员工提高自主服务

- USDA 选择 **System z** 作为portal的运行平台是由于看中了平台的高扩展能力，最高可靠性以及无安全事故隐患的能力

  – They needed to provide a multi-use, multi-lingual portal based on a **single Web standard.**

  – WebSphere Portal was chosen over 10 competitors including BEA, Microsoft's Sharepoint, Oracle and SAP

- USDA's 积极尝试的一个结果就是为业务增长提供了很好的支持，并且机构提供了运行服务支持

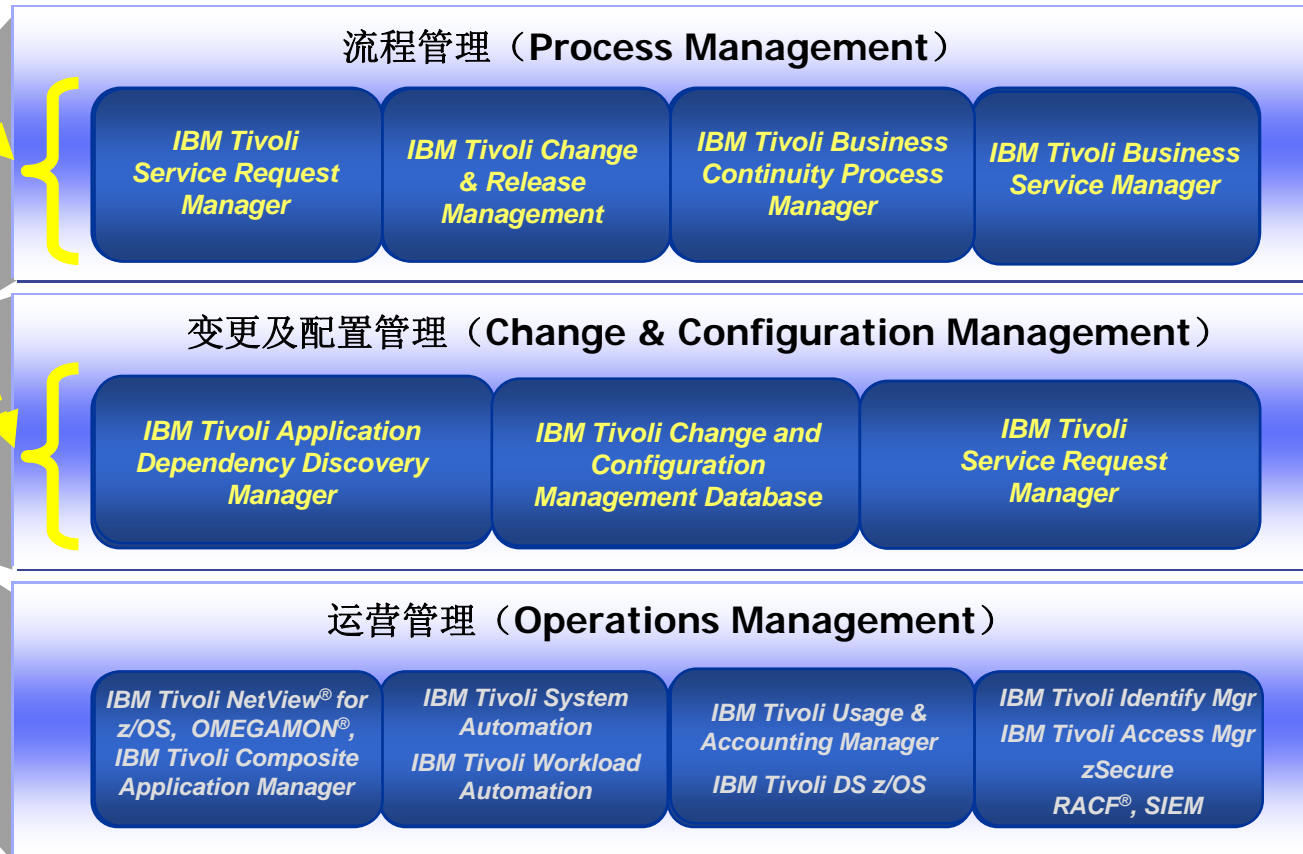# *Tivoli's service management hub on System z –*
实现动态管理的数据中心

AREA	DISCIPLINE	KEY CAPABILITY	ONLY IBM
Operational Management	Performance Monitoring	<u>Consolidated end-to-end</u> business service and IT operations management user interface	✓
	Workload Automation	<u>Workload balancing for virtualized environments</u> and automated critical path management to optimize throughput for critical services	✓
	Availability Management	<u>High availability solutions for Linux on System z</u> and <u>cross-platform high availability and disaster recovery</u> capabilities	✓
	Financial Management	<u>Linux on z and z/OS usage and accounting</u> tracking and reporting	✓
	Enterprise Asset Management	<u>Integrated enterprise and IT asset management</u>	✓
	Security Management	<u>Single point of control</u> for user security access, control, auditing and compliance across the enterprise	✓
Change & Configuration Management	Discovery & Relationship Mapping	<u>Automated System z dependency mapping and discovery</u> of server resources and application relationships to manage change	✓
	Configuration Management	<u>Comprehensive federated database</u> that provides a <u>single topology</u> for the enterprise – both distributed and System z	✓
Process Management	Incident & Problem Management	<u>Service desk integration with enterprise asset management</u>	✓
	Change & Release Management	Visibility into the impact of implementation tasks to <u>identify potential conflicts</u> with the change window across the enterprise	✓
	Business Continuity Management	Ability to <u>plan, design and test for enterprise-wide disaster recovery</u> with integration to the operational management solutions	✓
	Business Service Management	<u>Event management integration</u> with IBM and 3rd party event monitors	✓

IBM Tivoli Service Management Center for System z

集成化地解决方案，实现端到端的管理

New on System z!

IBM Tivoli Service Management for System z

流程管理（Process Management）

IBM Tivoli Service Request Manager	IBM Tivoli Change & Release Management	IBM Tivoli Business Continuity Process Manager	IBM Tivoli Business Service Manager

变更及配置管理（Change & Configuration Management）

IBM Tivoli Application Dependency Discovery Manager	IBM Tivoli Change and Configuration Management Database	IBM Tivoli Service Request Manager

运营管理（Operations Management）

IBM Tivoli NetView® for z/OS, OMEGAMON®, IBM Tivoli Composite Application Manager	IBM Tivoli System Automation IBM Tivoli Workload Automation	IBM Tivoli Usage & Accounting Manager IBM Tivoli DS z/OS	IBM Tivoli Identify Mgr IBM Tivoli Access Mgr zSecure RACF®, SIEM

总结 – Think 'z' First

- 在**System z10** 平台之上，软件性能上取得了全面的提升

- 新软件的一系列发布进一步帮助主机客户取得成功
  - Utilizing System z as information hub
  - Applying modern processes & software lifecycle management tools to the mainframe
  - Foundation for transaction-based workloads, SOA and Portal
  - Visibility, control and automation across the service management, technical support, operations, security and financial management

- **System z** 平台上的新业务（**new workloads**）帮助客户取得以下成功
  - Faster response to demands by business for change
  - Reduced cost of workloads and management
  - Reduced risk associated with changing IT infrastructure
  - Reduced dependency on specialized skill-sets
  - Better alignment of IT with business

谢 谢！