

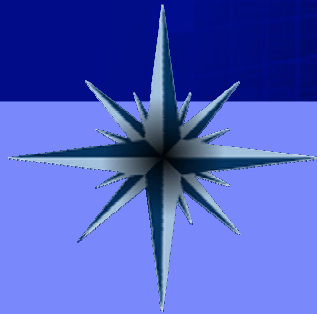


Aligning End to End Management, Security and Costs with Enterprise Business Services

David Caddis

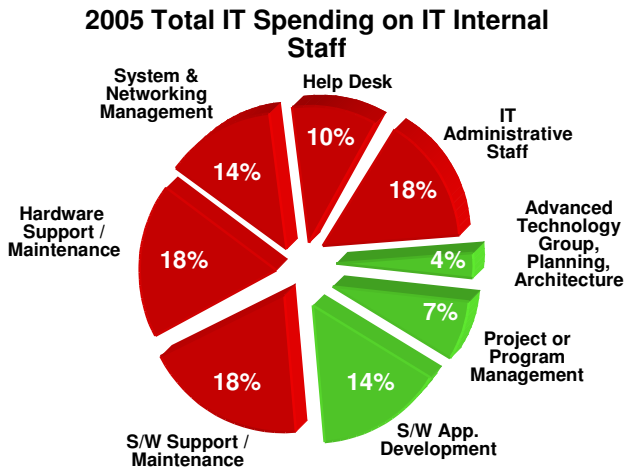
Director, Tivoli System Z Strategy

IBM Tivoli Software



Challenges with IT Effectiveness and Efficiency

Labor continues to comprise over 70% of IT Operations spending:



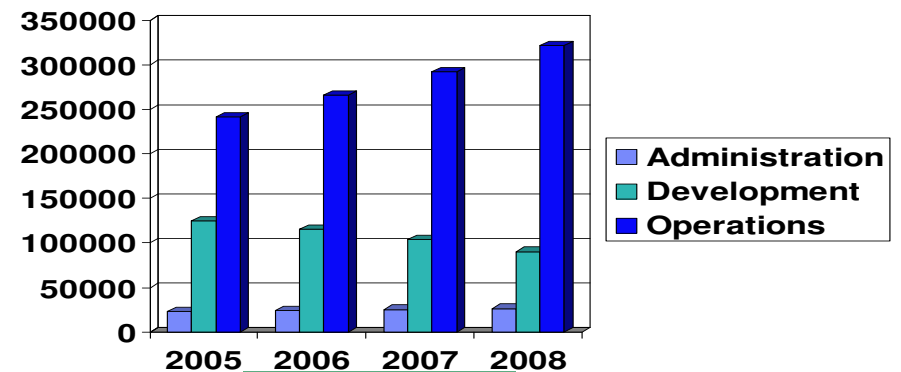
IT Operations spending not aligned with Business Objectives:

- Overall IT budgets grew smaller than corporate revenues in 2006 – requiring improved IT efficiency to meet demand
- 77% of firms rated improving IT efficiency as the most important operational priority in 2006
- IT Operational Labor spend will be \$260B in 2007

IT Organizations cannot keep pace with change and complexity

- 85% of problems are caused by IT making changes to the environment
- SOA, Virtualization and composite applications increase complexity
- Customers become the IT Systems Test Team
- Complexity exposes lack of integration across IT organizations

Increases in operations expenses take away from new innovation



The Business Cost of Poor Service Can be Staggering



FRONT PAGE – COMPANIES AND MARKETS:
Software bug hits electronic trade at LME
 By Kevin Morrison, Commodities Correspondent
 Financial Times, Nov. 07, 2006



Cingular users dropped during system failure in Galveston Co.
 08:28 AM CST on Thursday, February 15, 2007



June 23, 2006

Glitch Locks Ameritrade Users Out of Their Trading Accounts
 By Gaston F. Ceron



CHAOS: Voting Extension Denied Amid Massive Computer Problems in Colorado
 By George Merritt and Jeffrey Leib, Denver Post Staff Writers
 November 07, 2006

Air-traffic system outage grounds flights
Planes nearly came too close together; glitch causes Miami delays
 Associated Press
 Updated: 3:30 p.m. ET Dec. 5, 2006



November 24, 2006

Wal-Mart website shuts down on Black Friday morning
 By CNN's Katy Byron

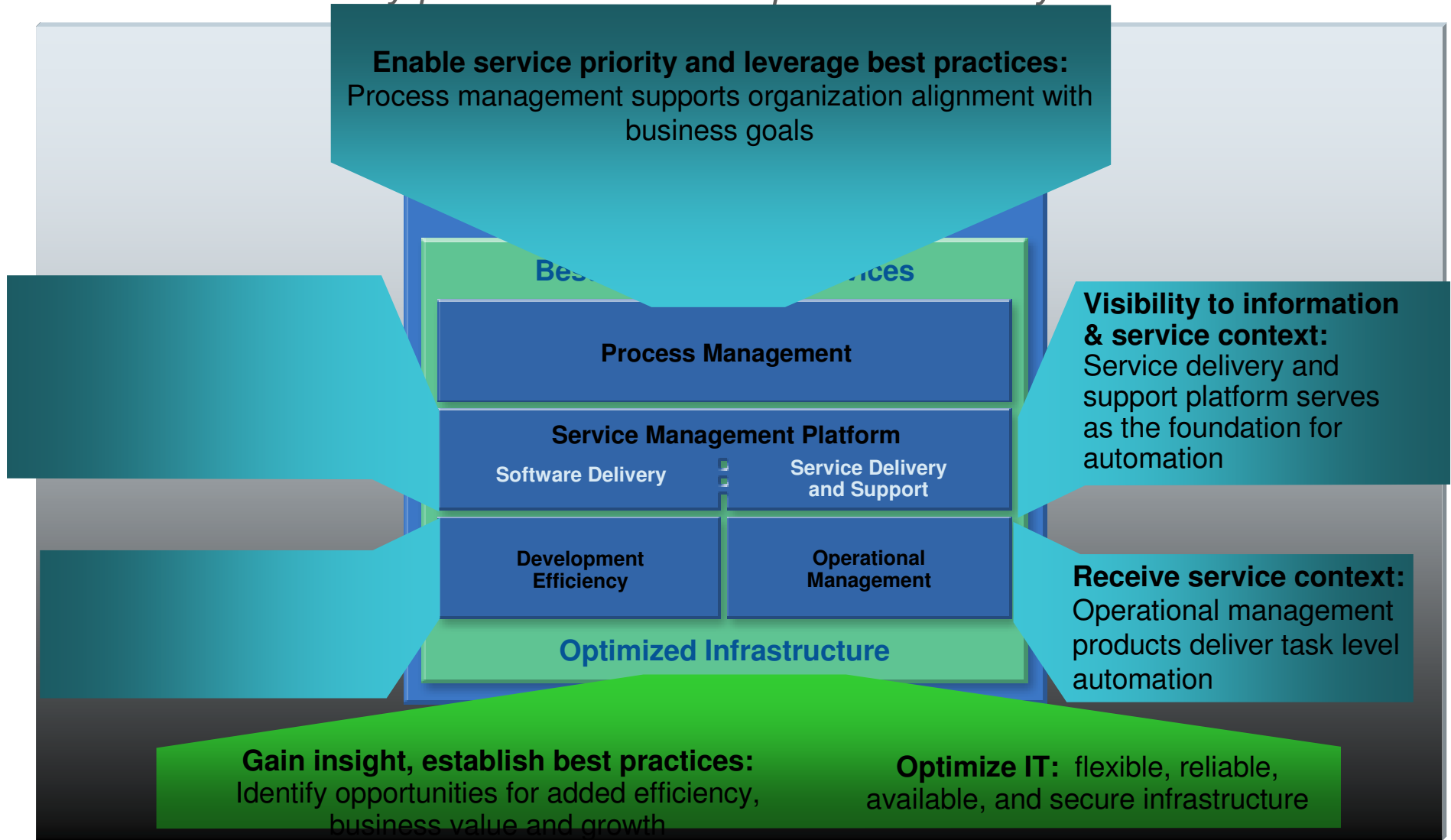


iTunes back to normal after holiday traffic quadruples
 ABC News: December 28, 2006

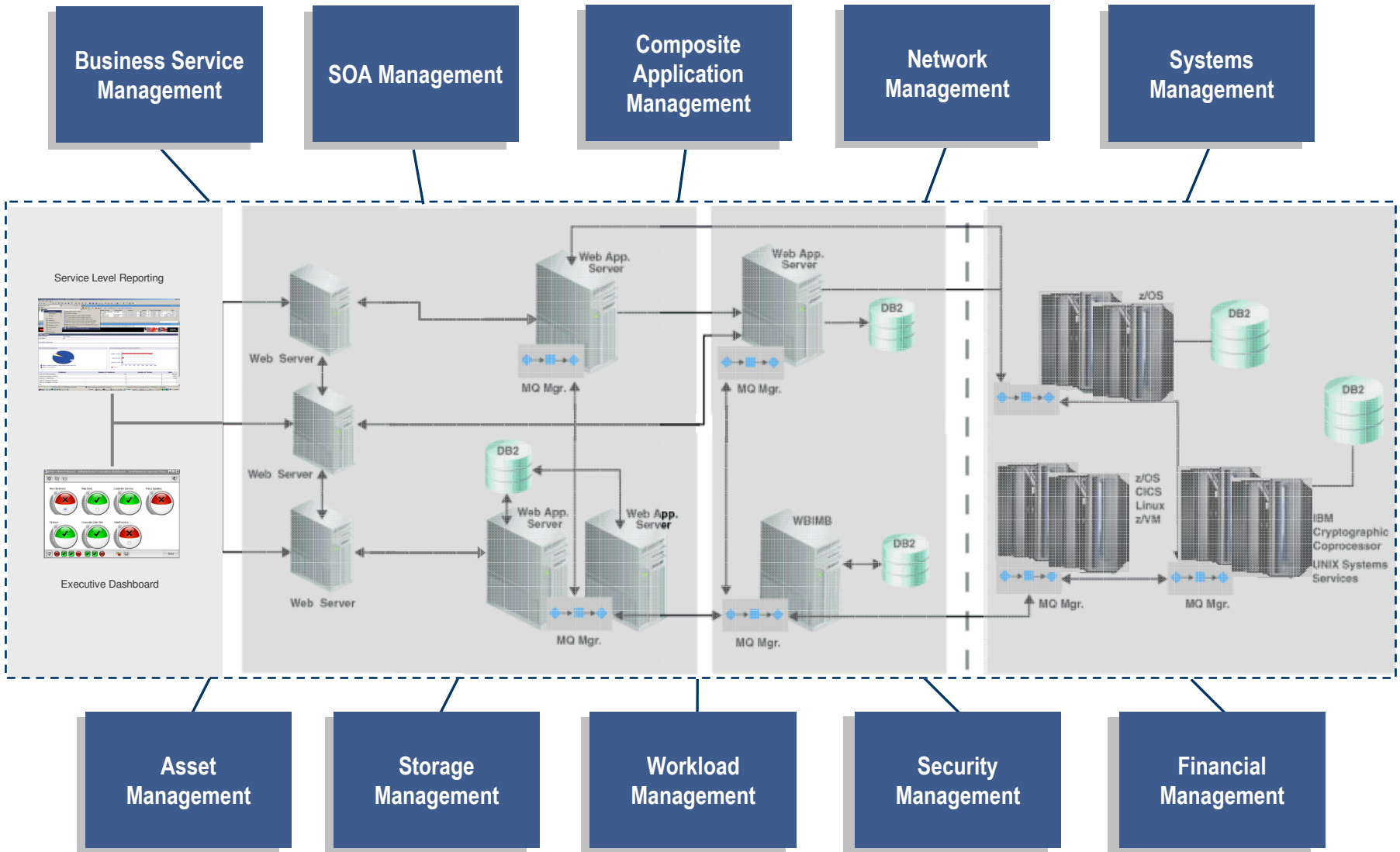


Delivering Value with IBM Service Management

Architected to clarify prioritization and improve efficiency



End to End Enterprise Management from Tivoli



IBM Tivoli System z Business: Strong and Growing

Highlights of key customer deliveries since we last met:

Availability solutions

- Complete upgrade to the OMEGAMON, ITM and ITCAM portfolios featuring:
 - Globalization for the worldwide user community
 - Enhanced infrastructure services and installation experience
 - Comprehensive operations support across the portfolios based on the Enterprise Portal
 - Out of the box cross product integration delivering more seamless navigation experience

Security solutions

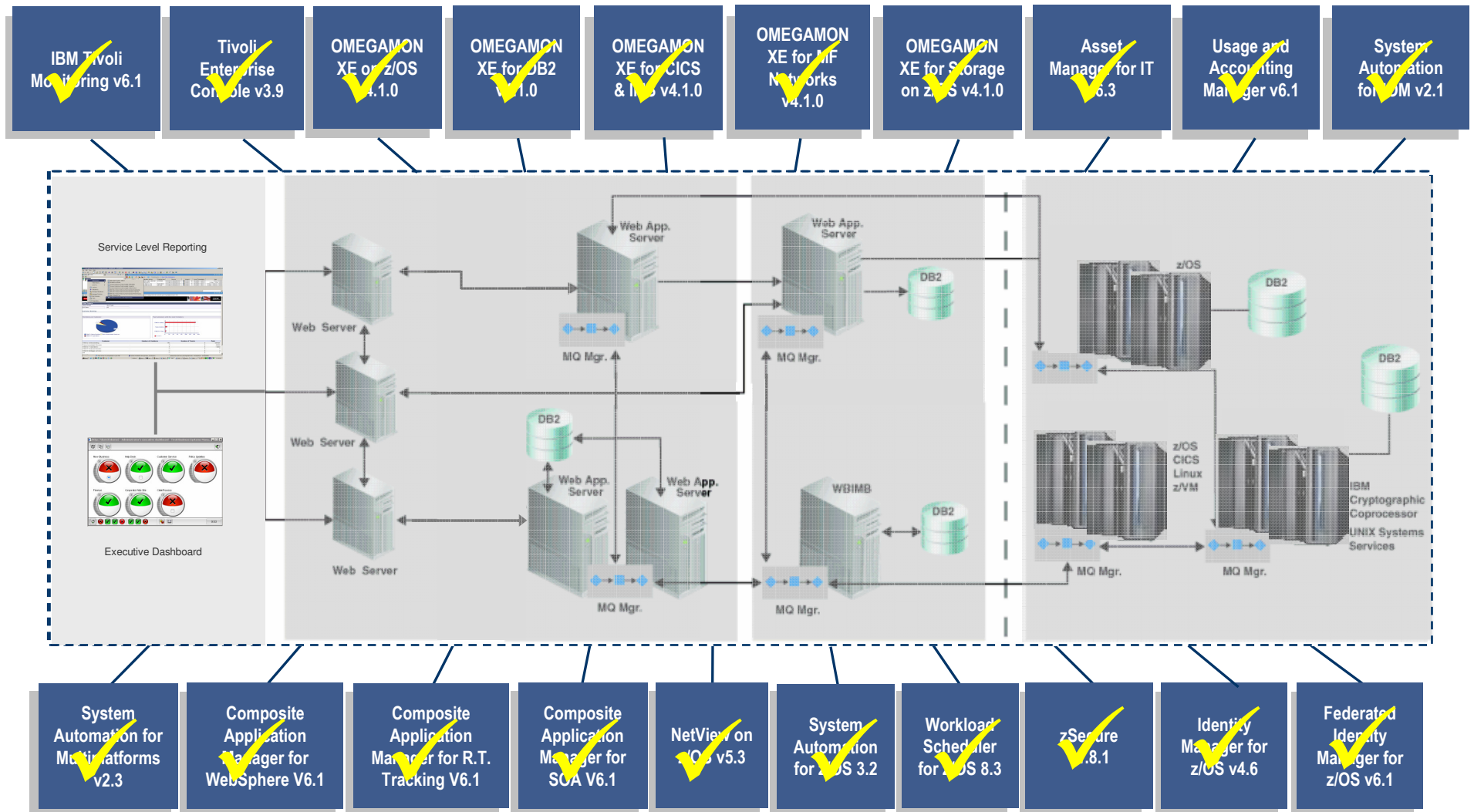
- Brought the Identity Management solution to the z/OS platform
- Enhanced the security configuration and administrative experience
- Provided practical governance and compliance capabilities

Business Service management solutions

- Expanded Asset Management beyond IT
- Revitalized Business Service Management with new technology and more powerful visualization
- Provided the tools and capabilities for identifying and gaining control of the costs of IT

End to End Enterprise Management from Tivoli

System z Inclusive



Customers Succeed with IBM Tivoli



Business Need

Banca March was embarking upon a rapid growth strategy, which included a 30-branch expansion, and its systems would not accommodate such growth

Solution for Growth

Banca March revamped its infrastructure, choosing the powerful IBM DB2 for z/OS V8 data server running on an IBM eServer zSeries 900.

In addition to implementing a suite of IBM DB2 tools, Tivoli OMEGAMON XE for DB2 Performance Expert, Tivoli OMEGAMON XE for CICS, and Tivoli Workload Scheduler for z/OS are used to optimize the performance and help ensure Banca March gets the most out of its IT investment



Business Need

Mayo Clinic's use of disparate software tools to manage its systems resulted in incompatibility with the applications. They were spending valuable time and resources getting them to function properly and realized they needed a solution that would support their growth, reduce costs and help the clinic operate more efficiently.

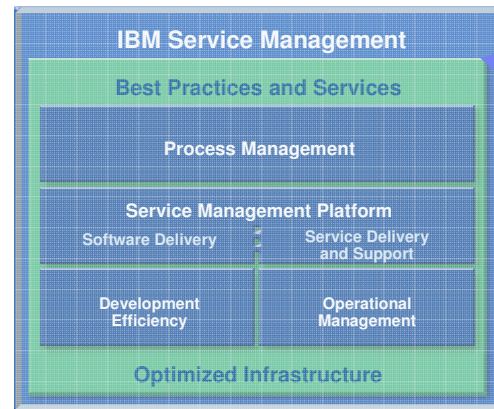
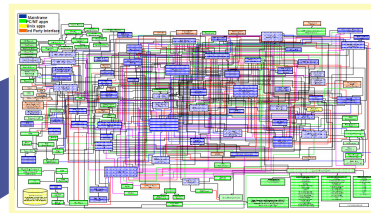
Customer Benefits

Mayo Clinic turned to IBM for their solution. Using IBM System z9 Enterprise Class servers, zIIP technology and Tivoli for their monitoring and management needs, their environment now provides the interoperability and flexibility to meet their business needs.

IBM Service Management: Delivers the ability to help customers answer three critical questions

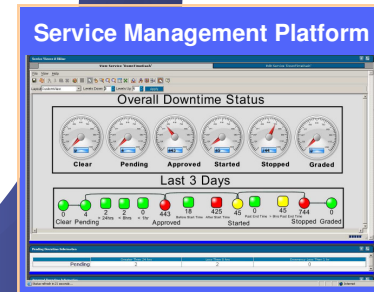
3. What actions do we take?

- System reconfiguration
- Data restore
- User identity provisioning
- System and application restart
- Infrastructure deployment



1. What's happening with the infrastructure?

- Server monitoring
- Storage monitoring
- Network monitoring
- Data monitoring
- Application monitoring



2. How does this relate to the business service?

- Dashboard
- Business service management
- Service level management
- Infrastructure and application discovery and mapping

Business Dashboard: Single Effective Management Interface*

The screenshot displays the Tivoli Business Dashboard interface. At the top, there is a navigation bar with 'Tivoli', 'Service View', 'Desktop', 'Go', and 'Logout' buttons. The main content area is divided into several sections:

- Service Tree:** A tree view on the left lists various service areas like DESERT MOUNTAIN, GREAT LAKES, MOUNTAIN MIDWEST, TEXAS, etc., each with a green status indicator.
- Realtime Business Indicators:** A large table on the right provides a summary of performance metrics for each service area, including Online, Offline, INV. Offline, and various TT (Total Transactions) and ART (Average Response Time) values.
- Realtime Service Health Indicators:** A smaller table below the Service Tree shows the health status of specific AU (Application Units) like AU_01185, AU_05728, and AU_07611.
- Service Details:** A tabbed interface with 'SLA', 'Events', and 'Rules' tabs. The 'SLA' tab is active, showing a detailed table of performance data for a specific region and branch.
- Performance Detail Information:** A table at the bottom provides granular performance data, including Region, Branch, ReportTime, Online/Offline counts, and various performance metrics.

Annotations with arrows point to these key areas: 'Realtime Business Indicators' points to the top table, 'Realtime Service Health Indicators' points to the AU table, 'Service Detail Information' points to the SLA table, and 'Performance Detail Information' points to the bottom table.

* from a Leading North American Retail Bank

Service Visualization – Insight into Business Service Status

Real-time, business-relevant KPIs and metrics

Real-time and historical reports on how the service is impacting business

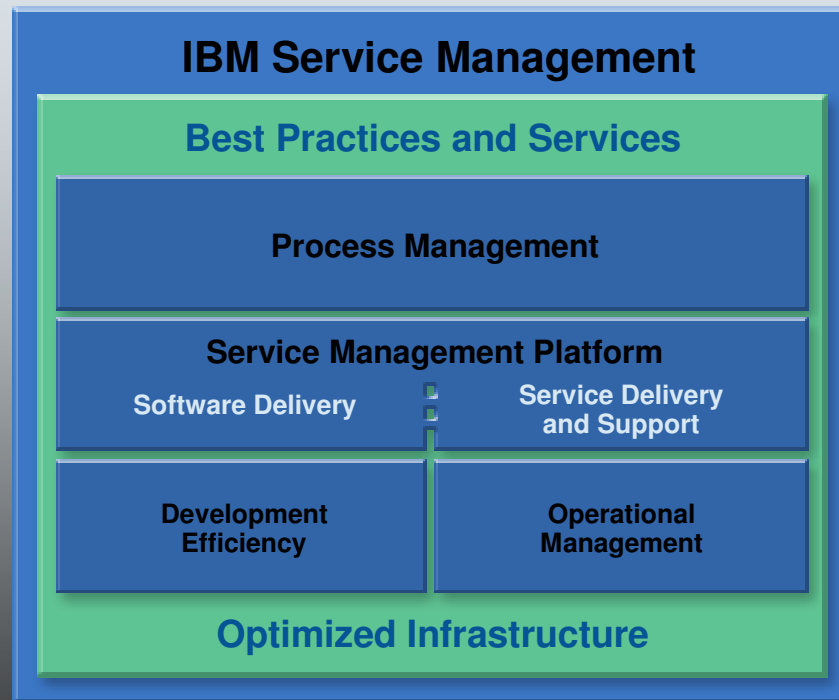
Current status of key services that drive business

Metrics and data integrated from external sources to aid in decision-making



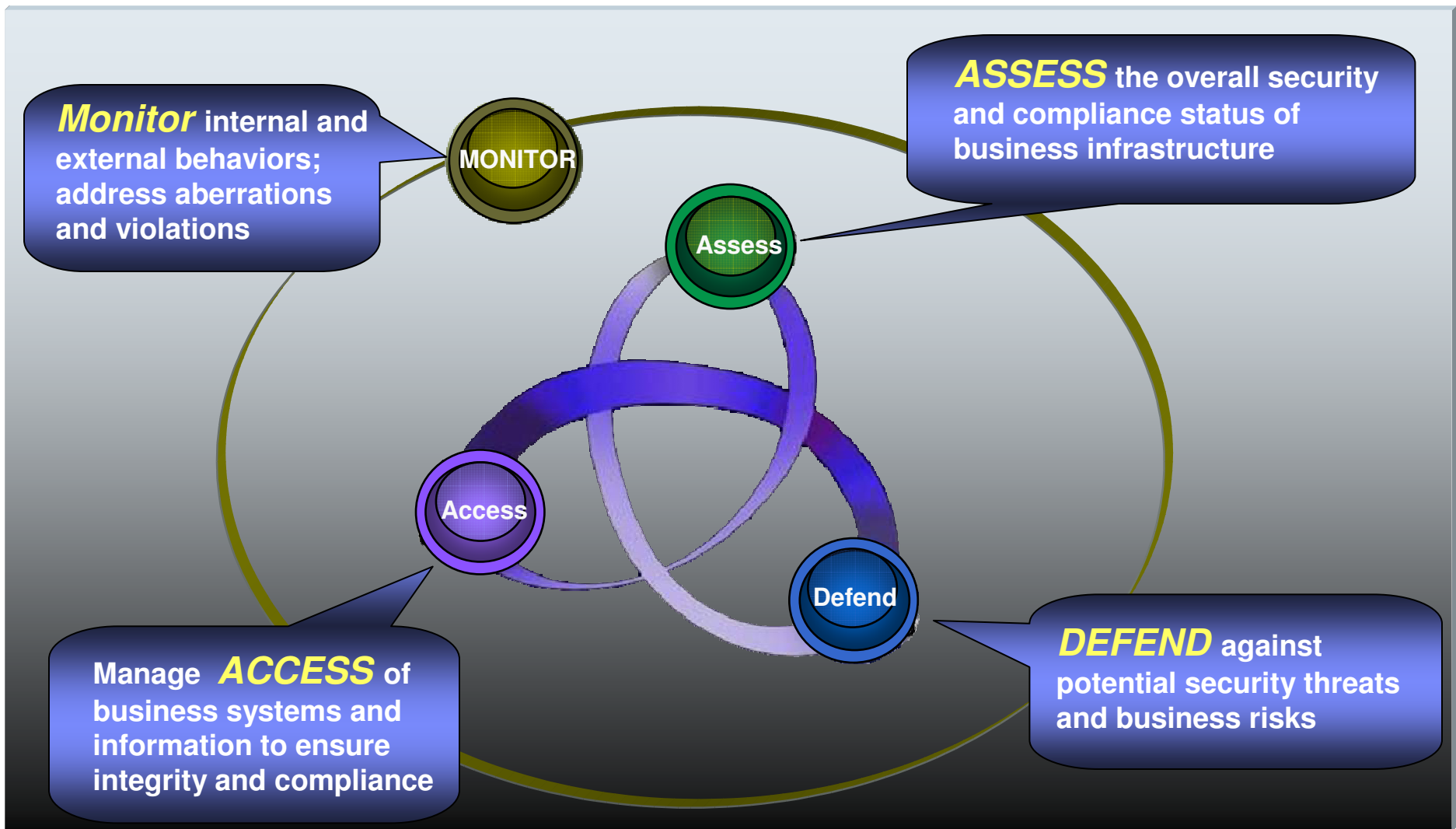
Make better decisions based on the overall status of key business services

Extending Customer Value Across IBM Service Management



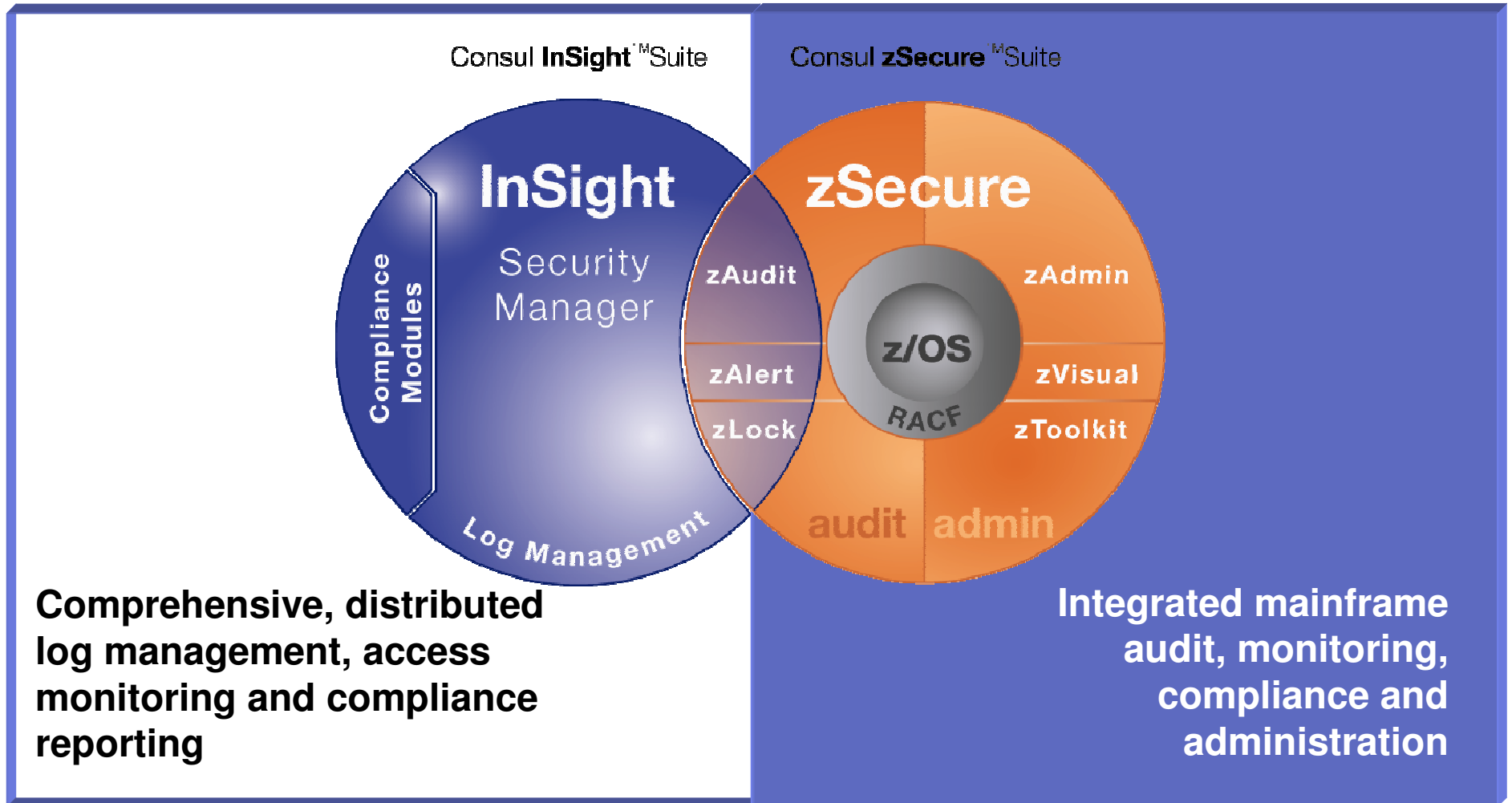
IBM's security management vision and strategy

Preemptive, comprehensive security and compliance offerings



Enterprise compliance and administration

Spanning distributed compliance and mainframe administration



Philadelphia Stock Exchange

Protection, compliance and more with IBM security



“We use security audit and compliance solutions from IBM Consul and we are in full compliance with our regulators.”

“Our administrators have the keys to the kingdom, which is scary. They need to be monitored. PHLX has policies in place, but if we can’t enforce policies, we might as well throw them away. InSight helps us enforce policies”

–Bernie Donnelly, VP of Quality Assurance, The Philadelphia Stock

Business Challenge:

- ✓ Protect a national stock exchange from unwanted electronic intruders and internal threats...
- ✓ ... while automating, monitoring and demonstrating compliance with security regulations

Business Value:

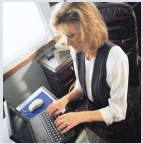
- Enhanced security and visibility;
- Easy auditing and investigations of internal or external malicious or accidental violations;
- Proactive capability to more easily meet future regulations.
- Currently handling 200,000 messages per second inbound and 30,000 messages per second outbound.
- Expected 2007 growth of 500,000 messages per second inbound and 90,000 messages per second outbound

Actions:

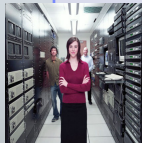
- Deployed automated user monitoring and compliance reporting solution
- Solution is key to data governance and compliance monitoring, auditing and reporting capabilities across mainframe and distributed environments

IT Financial Management

Cost-Effective Stewardship of IT Assets and Resources



Continuously reduce the TCO of IT assets throughout their lifecycle



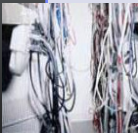
Improve IT service levels to optimize processes and align IT with the business



Reduce the cost of preparing for the inevitable internal and external audits



Optimize software licenses and reduce overbuying



Reduce the cost exposure of unplanned software license compliance payments

Best Practices for Cost Allocation

<i>Poor</i>	<i>Good</i>
All Costs Allocated to the Mainframe	Actual Usage of Each Resource (mainframe or distributed)
Incremental Mainframe Application Costs Calculated on existing per MIP rates	Calculate Actual Incremental Mainframe Costs Considering Specialty Engines, Pricing Curves, On Demand Capacity, Disaster Recovery, Environmentals, and Labor
Incremental Distributed Application Costs Include Only Production Hardware	Calculations Also Include Software, Development, Test, Disaster recovery, Environmentals, and Labor

What is Tivoli Usage & Accounting Manager?

A cross-platform software system that determines the cost of providing information services

Helps manage IT costs by appropriating costs to an organization's products, services and business functions

Tivoli Usage and Accounting Manager (TUAM) software measures, analyzes, reports and bills the utilization and costs of different computing resources – including servers, storage, networks, databases, virtualized environments, messaging and many other shared services

IBM Service Management & Tivoli Usage and Accounting Manager

- **What's happening with the Infrastructure?**
 - TUAM tells you who's using the IT resources
 - This is key in today's shared distributed and virtualized environments

- **How does this relate to the Business Service?**
 - TUAM tells you the cost of providing the shared IT service
 - How much does it cost to support:
 - Banks: Commercial Loans, Credit Card, ATM
 - Insurance: Claims, Policies, Statements
 - Government: Agencies, Departments, Projects

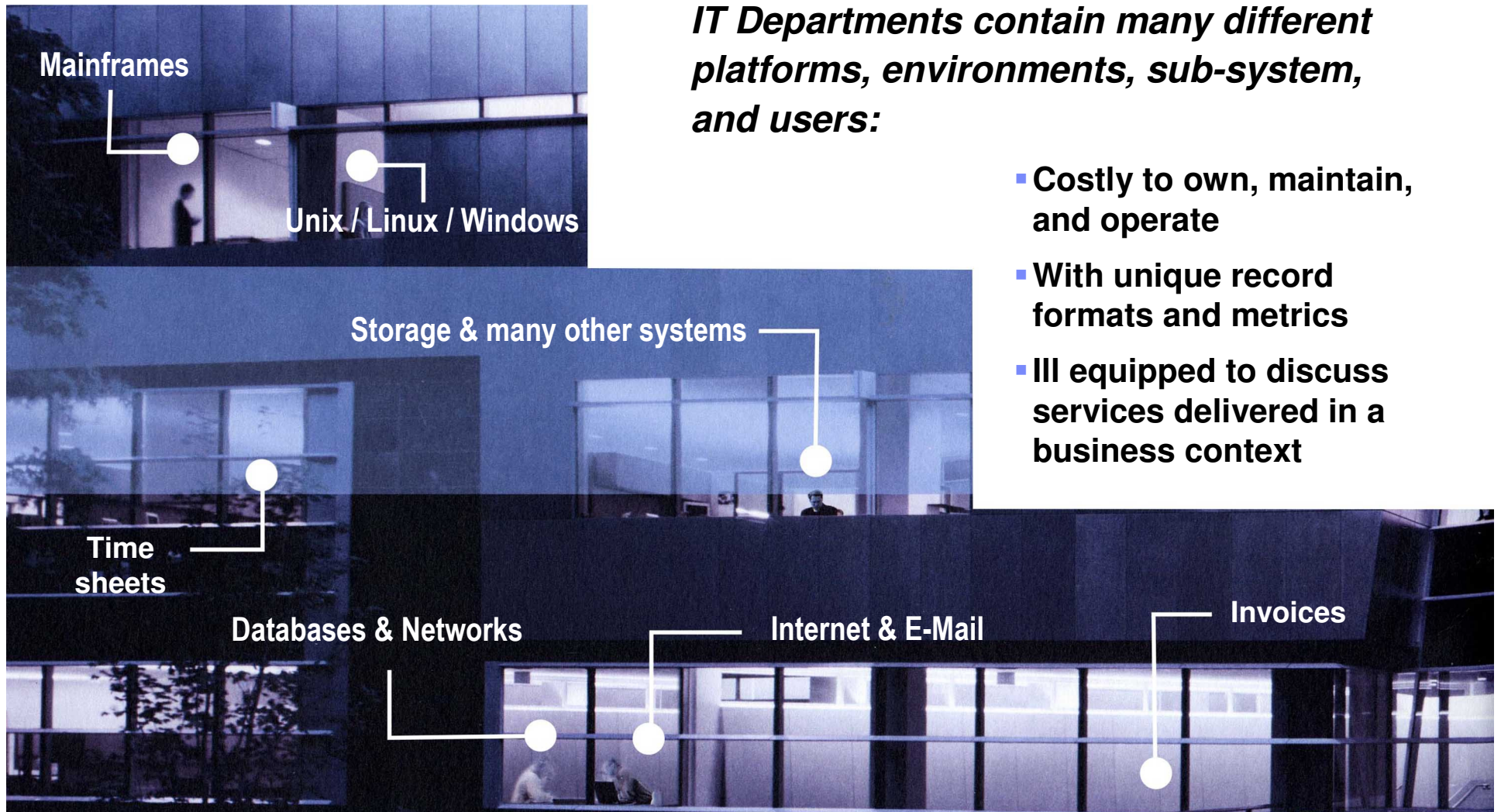
- **What actions do we take?**
 - TUAM's information above may lead to further investment in certain applications or a reduction based on the application's contribution to the business.

What problem does it help solve?

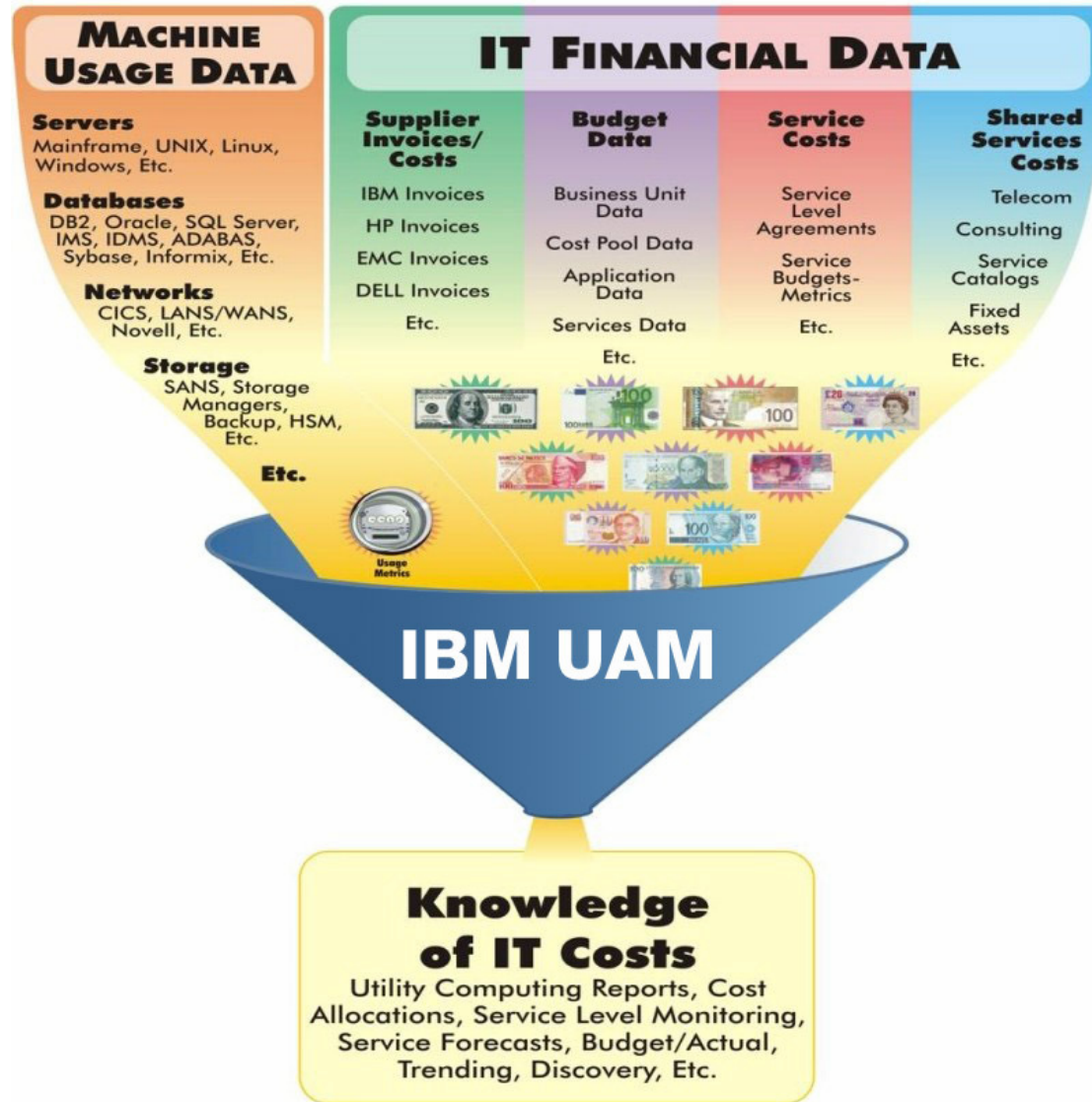
Inability to allocate IT costs, usage, and value

IT Departments contain many different platforms, environments, sub-systems, and users:

- **Costly to own, maintain, and operate**
- **With unique record formats and metrics**
- **Ill equipped to discuss services delivered in a business context**

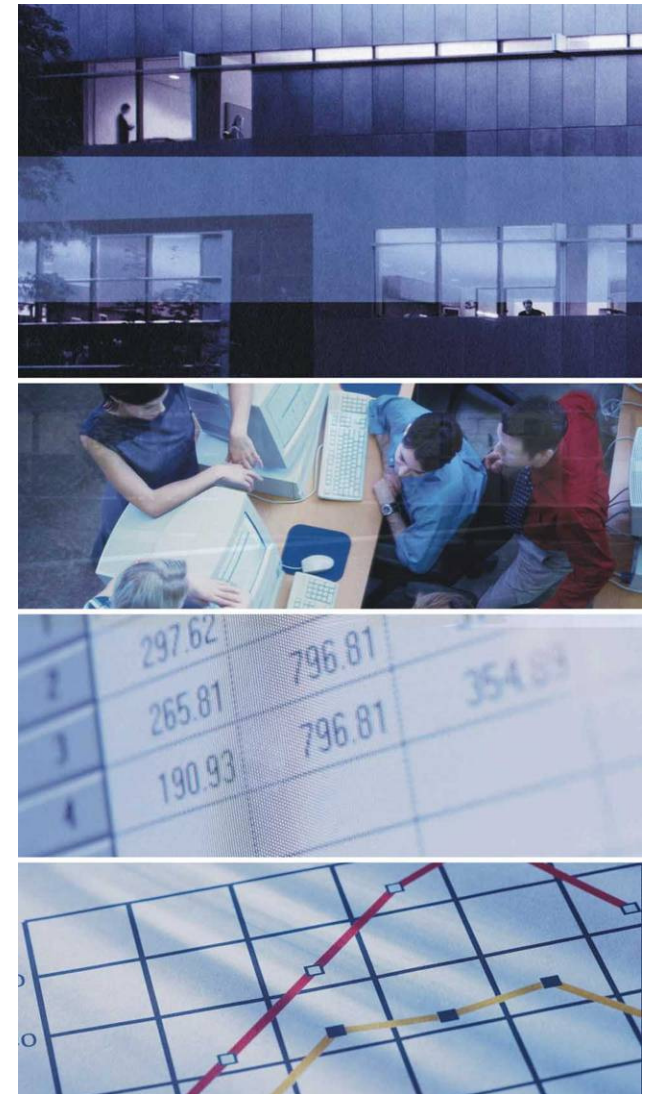


Know what IT costs – The IBM UAM funnel



Tivoli Usage and Accounting Manager is . . .

- **An integral part of an organization's financial reporting systems**
(Shared Services, Invoicing, Product Profitability, ERP Integration, Cost Allocations, Activity Based Costing, Resource & Cost Trending, etc.)
- **Used across multiple platforms**
(Including Mainframe, Unix, Linux, Windows, etc.)
- **Supporting multiple sub-systems**
(DB2, Oracle, SQL Server, CICS, Virtualization, Web, E-Mail, Networks, Storage, Print Servers, etc.)
- **Internet enabled**
(Web-Based Reporting & Drill-Down and multiple outputs)



Tivoli Usage and Accounting Manager Implementations

Health Insurance Company

CICS/DB2/Batch/TSO & normalization between 2 System Z mainframes. Rolling out TUAM to 168 UNIX and 300 Windows Servers.

Replaced 2 homegrown systems after merger. Corporate finance is the user and owner of the system. Needed better answers for federal audits. TUAM only product to meet all RFP requirements

Financial Services Broker

z/OS, Linux for System z & Unix/Novell/Windows. Primavera importing for labor accounting. Inventory information, SAN, and telecom.

Doing memo billing now and will move to chargeback in the future

Aerospace Manufacturer

Both z/OS & distributed. Bill \$18-20M per month across 5,000 cost centers. 40K pieces of hardware. Perform labor tracking, WAN, assessments, and project costs. Feeding SAP GL and using web reporting.

Replaced homegrown system

State Government

z/OS, Telecom, UNIX, Windows, Labor, Oracle, SQL Server, & Exchange

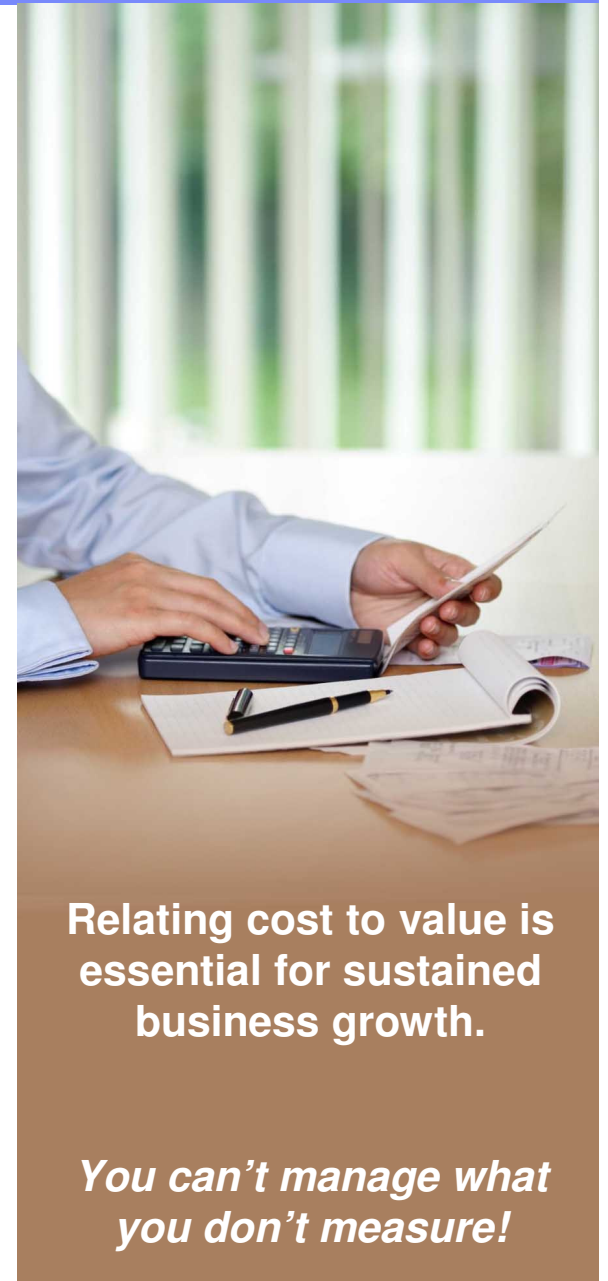
Wanted to replace multiple billing systems with integrated system and meet government audit requirements

Tivoli Usage and Accounting Manager helps align IT costs with business goals

- **Improve business unit alignment with business value**
 - Real Usage = Accurate Billing
 - Accountability = Improved services
 - Alignment between business activity and IT costs

- **Lower Infrastructure Cost**
 - Reduced server sprawl
 - Higher utilization
 - Rationalization of resources

- **Continuous Infrastructure Improvement**
 - Understanding costs leads to managing costs
 - Usage comparisons leads to more effective investments



Relating cost to value is essential for sustained business growth.

You can't manage what you don't measure!

Implementation & Services

- **Client Implementation**

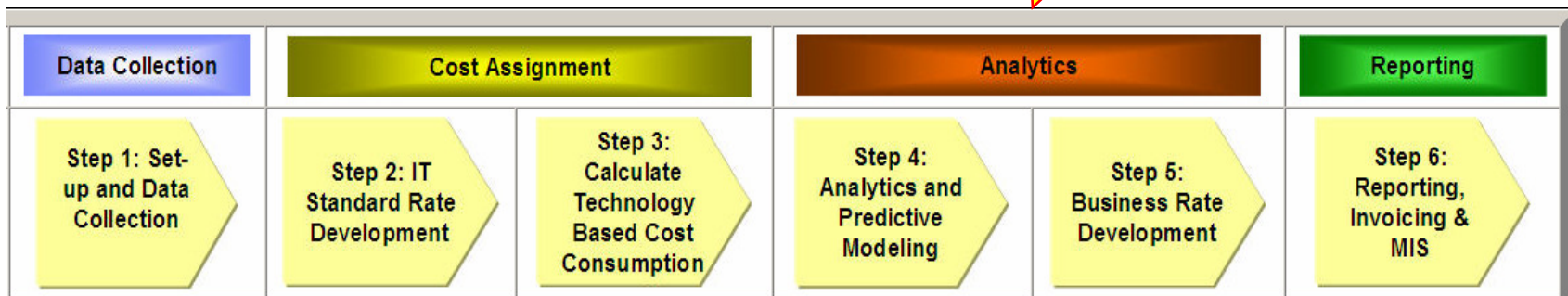
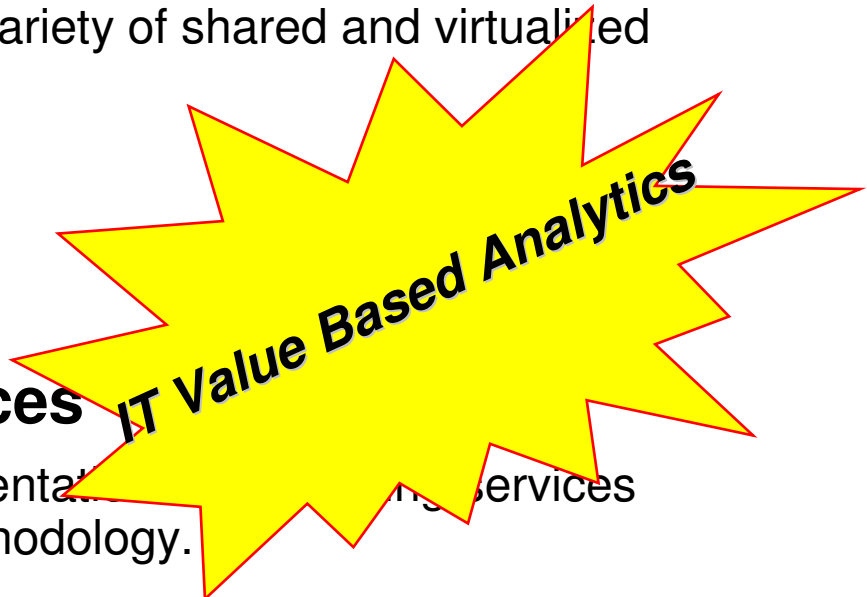
- TUAM is ready to use software that is user installable and can quickly report on usage of a variety of shared and virtualized systems.

- **Tivoli Services**

- TUAM QuickStart:
- Extended Engagements

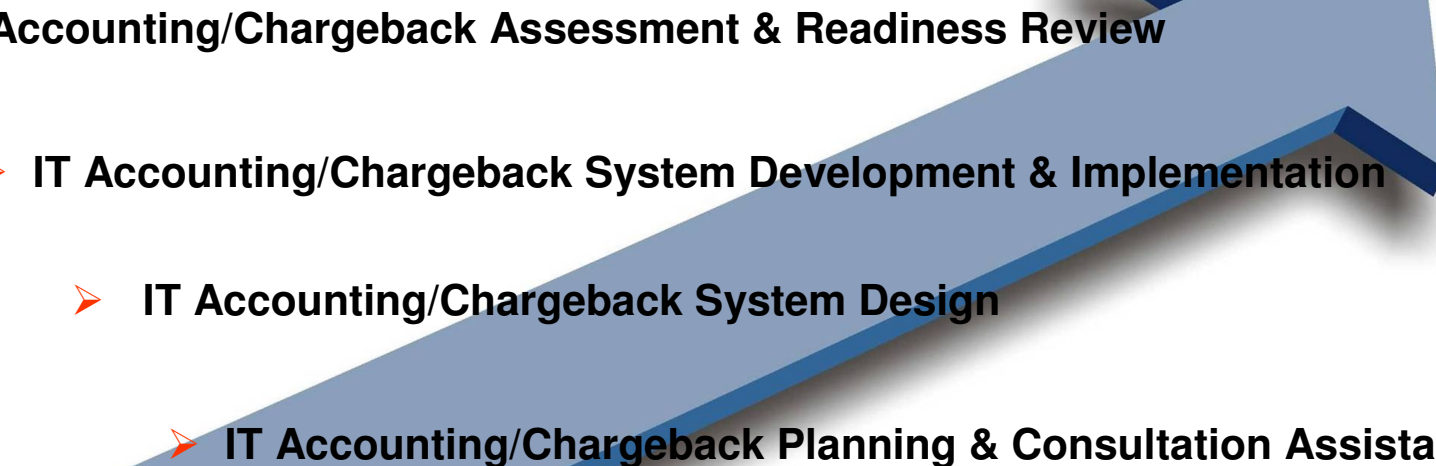
- **IBM Global Business Services**

- Complete end to end implementation and ongoing services using an IBM proprietary methodology.



Tivoli Usage and Accounting Manager Service Offerings

IBM is announcing several service offerings to help customers accelerate planning, designing, piloting, and implementing an IBM Tivoli Usage and Accounting Manager-based accounting and chargeback system

- 
- **IT Accounting/Chargeback Assessment & Readiness Review**
 - **IT Accounting/Chargeback System Development & Implementation**
 - **IT Accounting/Chargeback System Design**
 - **IT Accounting/Chargeback Planning & Consultation Assistance**

Helps customers accelerate while minimizing project risk



Review and Wrap Up



Tivoli IBM System z Road Ahead

4Q 2007

2H 2008

2Q 2007		3Q 2007		4Q 2007		1H 2008		2H 2008			
ISM <ul style="list-style-type: none"> Tivoli Service Level Advisor TADDM v5.1.1 FP2 TADDM v5.1.1 FP3 w/ z/OS DLA 		AVAILABILITY <ul style="list-style-type: none"> IBM Tivoli NetView for z/OS v5.3 IBM OMEGAMON XE for CICS TG on z/OS v4.1 Tivoli Workload Scheduler v8.3 (SPE) – Advanced Reporting & Virtual Workstation TSA for MP v2.3 TSA for Integrated Operations Management v2.1 		ISM <ul style="list-style-type: none"> CCMDB/TADDM v7.1 		AVAILABILITY <ul style="list-style-type: none"> Tivoli OMEGAMON XE for Messaging v6.0.1 Tivoli OMEGAMON XE on z/VM and Linux v4.1.1 OMEGAMON SPEs for z/OS, CICS, IMS, DB2 PE/PM, Mainframe Networks IBM Tivoli Monitoring v6.2 IBM Tivoli Workload Scheduler for z/OS v8.3 (SPE) IPv6 Compliance IBM Tivoli Workload Scheduler v8.4 TSA for z/OS v3.2 		ISM <ul style="list-style-type: none"> Tivoli Business Continuity Process Manager v7.1 IBM CCMDB v7.1.1 Tivoli Service Level Advisor v6.2 		AVAILABILITY <ul style="list-style-type: none"> Tivoli System Automation for Multiplatforms v3.2 OMEGAMON XE for IMS 4.2.0 ITCAM for Web Resources v7.1 ITCAM for Transactions v7.1 ITCAM for Response Time v7.1 	
AVAILABILITY <ul style="list-style-type: none"> ITCAM for Response Time v6.2 ITCAM for Web Resources v6.2 ITCAM for SOA v6.1 Sparkler TSA for z/OS v3.1 (SPE) Sparkler – GDPS Enhancements Tivoli Workload Scheduler v8.3 (SPE) – TCP/IP Support 		SECURITY <ul style="list-style-type: none"> Tivoli zSecure v1.8.1 Tivoli zSecure 1.8.1 Manager for RACF z/VM Tivoli Directory Server for z/OS 1.9 		SECURITY <ul style="list-style-type: none"> Tivoli Identity Manager v5.0 Tivoli zSecure v1.9 		AVAILABILITY <ul style="list-style-type: none"> Tivoli OMEGAMON XE for Messaging v7.1 TSA for Multiplatforms v3.1 Tivoli Output Manager v2.2 ITCAM for SOA v7.1 		SECURITY <ul style="list-style-type: none"> Tivoli Directory Integrator v7.0 Tivoli Identity Manager z/OS v5.0 Tivoli Compliance Insight Manager v8.5 			
SECURITY <ul style="list-style-type: none"> IBM Tivoli Directory Server for z/OS v1.8 IBM Tivoli Directory Integrator for z/OS v6.1.1 		STORAGE <ul style="list-style-type: none"> DFSMS z/OS v1.9 		SECURITY <ul style="list-style-type: none"> Tivoli Access Manager for eBusiness v6.1 Tivoli Federated Identity Manager v6.2 		SECURITY <ul style="list-style-type: none"> Tivoli Federated Identity Manager Business Gateway v6.2 IBM Tivoli Federated Identity Manager for z/OS v6.2 		PROVISIONING <ul style="list-style-type: none"> Tivoli AF/Operator on z/OS v3.4 (SPE) 			
STORAGE <ul style="list-style-type: none"> TotalStorage Productivity Center for Replication v3.3 IBM Tivoli Advanced Reporting for DFSMSHsm v1.1 IBM Backup and Restore Manager for z/VM V1.2.1 		PROVISIONING <ul style="list-style-type: none"> Tivoli Remote Control v5.1 		STORAGE <ul style="list-style-type: none"> IBM Tivoli Advanced Backup & Recovery for z/OS v1.2 IBM Tivoli Advanced Audit for DFSMSHsm v2.1 IBM Tivoli Advanced Catalog Management for z/OS v2.1 Tivoli Allocation Optimizer v2.1 OMEGAMON XE for Storage SPE v4.1 IBM Tape Manager for z/VM 1.3 		STORAGE <ul style="list-style-type: none"> IBM Tivoli Automated Tape Allocation Manager 3.1 IBM Backup and Restore Manager for z/VM 2.1 IBM Tivoli Advanced Reporting for DFSMSHsm v2.1 		STORAGE <ul style="list-style-type: none"> OMEGAMON XE for Storage 4.2.0 Tivoli Allocation Optimizer 3.1 Tivoli Advanced Catalog Management 2.2 Tivoli Advanced Audit 2.2 Tivoli Advanced Reporting 2.2 Tivoli Advanced Backup & Recovery 2.2 DFSMS z/OS v1.10 			
ASSET <ul style="list-style-type: none"> IBM Tivoli Asset Management for IT v6.3 		ASSET <ul style="list-style-type: none"> IBM Tivoli Decision Support for z/OS v1.8 		PROVISIONING <ul style="list-style-type: none"> Tivoli Provisioning Manager v5.1.1 Tivoli Provisioning Manager for Software v5.1.1 Tivoli Intelligent Orchestrator v5.1.1 		ASSET <ul style="list-style-type: none"> IBM Tivoli Asset Management for IT v7.1 		ASSET <ul style="list-style-type: none"> IBM Tivoli License Compliance Manager for z/OS v7.1 			
				ASSET <ul style="list-style-type: none"> IBM Tivoli Usage & Accounting Manager for z/OS v7.1 				LEGEND <ul style="list-style-type: none"> z/OS Support Linux on z and/or z/VM Support 			

IBM Service Management and System z

- **IBM Service Management: The future of systems management is here today**
- **No better foundation for ISM than System z**
- **In an industry bombarded by constant change, System z remains a effective and efficient platform**
- **Many reasons behind System z's enduring success:**
 - Low total cost of ownership
 - High availability ...resiliency....transactional performance and security
- **We're committed to bringing System z solutions that:**
 - Expand System z capabilities while enhancing its proven strengths
 - Continue to reduce the costs associated with operations and systems management



The IBM Service Management Difference



- ✓ **Unparalleled Value** - reduces operational labor cost and time, improves asset productivity and quality of service
- ✓ **Proven Architecture** - delivers service excellence and automation through open standards-based SOA and industry-proven technologies
- ✓ **Rich Relational Value** – provides end-to-end automation through seamless integration across processes and operational tasks
- ✓ **Depth & Breadth in Offerings** – covering network management, asset management, service request management and governance
- ✓ **Flexible Adoption Model** - allow customers to become service-centric regardless of their current level of organizational automation

BACKUP

**Tivoli Product Preview
Announcement
Summary**

Performance Management

New Release Highlights

IBM Tivoli OMEGAMON XE v4.1.0:

- z/OS
- CICS on z/OS
- IMS on z/OS
- DB2 Performance Monitor & Performance Expert on z/OS
- Storage on z/OS
- Messaging V6.0.1
- **New! CICS TG on z/OS**

Support for new z/OS 1.9, CICS TS 3.2, IMS 10

Enhanced problem analysis by OMEGAMON 3270 Classic for key platforms

Enhanced OM DB2 SAP support

Enhanced Performance in very large scale MQ environments for OM Messaging

New CICS TG performance management solution for workload and resource utilization

– Mainframe Networks

IP security network management in OM Networks to help identify network attacks

– Z/VM and Linux

Extended z/VM and Linux performance analysis and support for z/VM 5.3

•All new product releases are planned for GA during 4Q07 except as noted

Performance Management

New Release Highlights

IBM Tivoli Monitoring V6.2

System p AIX management analysis extensions

TEP LDAP User authentication

New Agent Builder to create custom agents

Common Event Viewer integrated into TEP

New! IBM Tivoli Performance Analyzer V6.1

New ITM component can be added for enhanced analysis and predictive capabilities

Performance Analyzer reports on key operational metrics and trending

Highlights emerging problems before they threaten service levels

•All new product releases are planned for GA during 4Q07 except as noted

Application, Workload and Automation Management

Application Management

IBM Tivoli Composite Application Manager:

- SOA V6.1 Fixpack 1 & SOA V7.1
- Internet Service Monitoring

New Release Highlights

SOA support for monitoring service flows through WebSphere Message Broker

Integration of ITCAM for SOA with OMEGAMON XE for Messaging and IBM Tivoli Monitoring

Topology display of service flows

End User experience management via simulated transaction monitoring

Workload and Automation Management

IBM Tivoli Workload Scheduler V8.4 & Application V8.4

IBM Tivoli Workload Scheduler for z/OS V8.3

IBM Tivoli System Automation for z/OS V3.2

Advanced event-based scheduling capabilities

Enhanced SAP event monitoring

Policy-based event filtering for workload automation

Enhanced integration with the TEP for management of z/OS automation data

•All new product releases are planned for GA during 4Q07 except as noted

Network Management and Storage Management

New Release Highlights

Network Management

- Tivoli NetView for z/OS V5.3 (GA 27 July 07)
- IBM Tivoli Network Manager IP Edition V3.7
- IBM Tivoli Network Manager IP Entry Edition V3.7
- IBM Tivoli Network Manager TN Edition V5.6
- IBM Tivoli Netcool/OMNIBus V7.2

Enhanced NetView and OMEGAMON integration via Tivoli Enterprise Portal and System z TCP/IP discovery and load to CCMDDB

Real-time network discovery and monitoring for network operation center personnel in ITNM IP

Enhanced network operator tasks to drill into an individual device's configuration

Event views in TEP from OMNIBus

Storage Management

- IBM Tivoli Advanced Catalog Management for z/OS V2.1
- IBM Tivoli Advanced Audit for DFSMSHsm V2.1
- IBM Tivoli Allocation Optimizer for z/OS V2.1
- IBM Tivoli Storage Manager V5.5

TEP-enabled advanced storage tools and integration with OMEGAMON XE for Storage

Fast and complete auditing of storage and automated corrective actions for errors

TSM Optimized disk backup/restore for improved performance in operations

•All new product releases are planned for GA during 4Q07 except as noted

Service Management and IT Financial Management

Service Management

- **IBM Tivoli Service Request Manager V6.2.1**

New Release Highlights

A fully ITIL-compliant solution for service desk, problem and incident management

Supports both IT and corporate help desk with integration to Maximo Enterprise Management solutions

IT Financial Management

- **IBM Tivoli Usage and Accounting Manager V7.1**
- **IBM Tivoli Decision Support for z/OS V1.8**

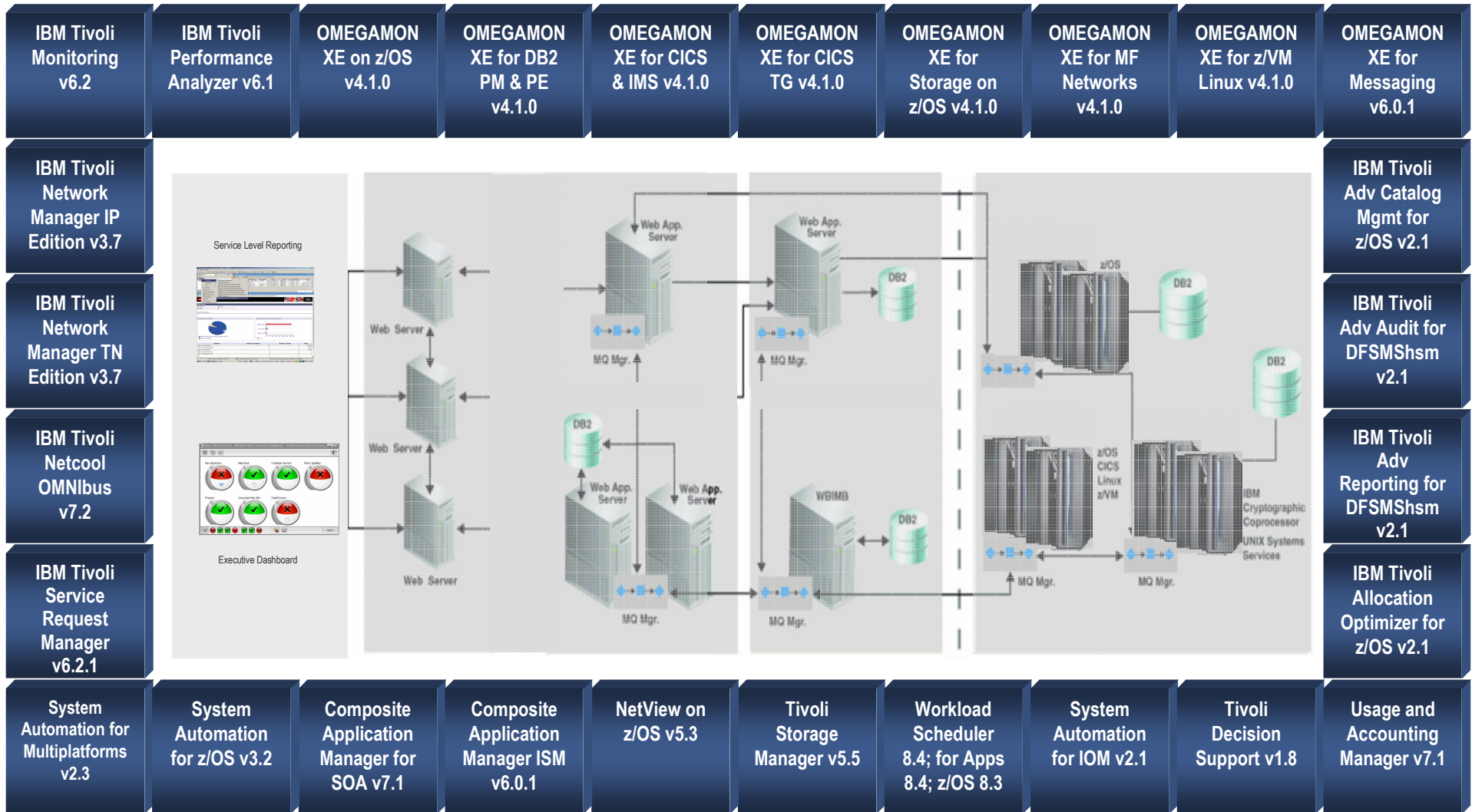
Enterprise IT usage and accounting reporting to optimize IT spending

Extended integration and reporting for IBM Tivoli Usage and Accounting Manager with Tivoli and WebSphere products

Web reporting, publishing and integration with Tivoli Enterprise Portal for IBM Tivoli Decision Support

•All new product releases are planned for GA during 4Q07 except as noted

Result? Superior End-to-End Enterprise Management



IBM Tivoli Monitoring v6.2

IBM Tivoli Performance Analyzer v6.1

OMEGAMON XE on z/OS v4.1.0

OMEGAMON XE for DB2 PM & PE v4.1.0

OMEGAMON XE for CICS & IMS v4.1.0

OMEGAMON XE for CICS TG v4.1.0

OMEGAMON XE for Storage on z/OS v4.1.0

OMEGAMON XE for MF Networks v4.1.0

OMEGAMON XE for z/VM Linux v4.1.0

OMEGAMON XE for Messaging v6.0.1

IBM Tivoli Network Manager IP Edition v3.7

IBM Tivoli Network Manager TN Edition v3.7

IBM Tivoli Netcool OMNibus v7.2

IBM Tivoli Service Request Manager v6.2.1

System Automation for Multipplatforms v2.3

System Automation for z/OS v3.2

Composite Application Manager for SOA v7.1

Composite Application Manager ISM v6.0.1

NetView on z/OS v5.3

Tivoli Storage Manager v5.5

Workload Scheduler 8.4; for Apps 8.4; z/OS 8.3

System Automation for IOM v2.1

Tivoli Decision Support v1.8

Usage and Accounting Manager v7.1

IBM Tivoli Adv Catalog Mgmt for z/OS v2.1

IBM Tivoli Adv Audit for DFSMSHsm v2.1

IBM Tivoli Adv Reporting for DFSMSHsm v2.1

IBM Tivoli Allocation Optimizer for z/OS v2.1