



Thriving Amidst Change

Four Smart Ways to Reduce Costs and Deliver High Quality Service

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Some results from IBM's 2009 CIO Study

1. More than the private sector, Governments face tremendous transformation and service delivery challenges – information, communications and technology are crucial to both
2. Government CIOs are confronted with growing constraints – budgets, business models, security concerns, skills; many structural aspects of those constraints are unique to government
3. Government CIOs are expected to
 - Make innovation real
 - Raise the ROI of information and technology
 - Expand business (mission) impact

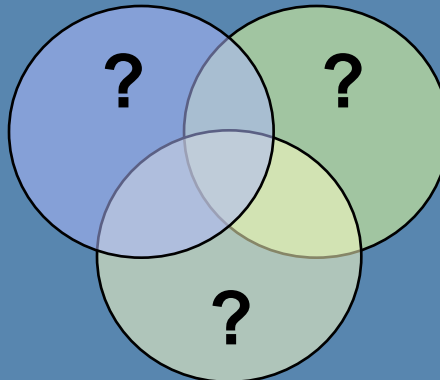
Dynamic Infrastructure:

Supporting multiple workload approaches.....

Transaction/data processing

- Scale
- Flexible workload management
- Fast transaction, I/O speeds
- High quality of service
- Security

Platforms



Basic web and collaboration

- Scale
- High throughput
- Varying quality of service
- Varying levels of security

Business applications (including web)

- Scale
- High quality of service
- High memory requirements
- Flexible infrastructure
- Security

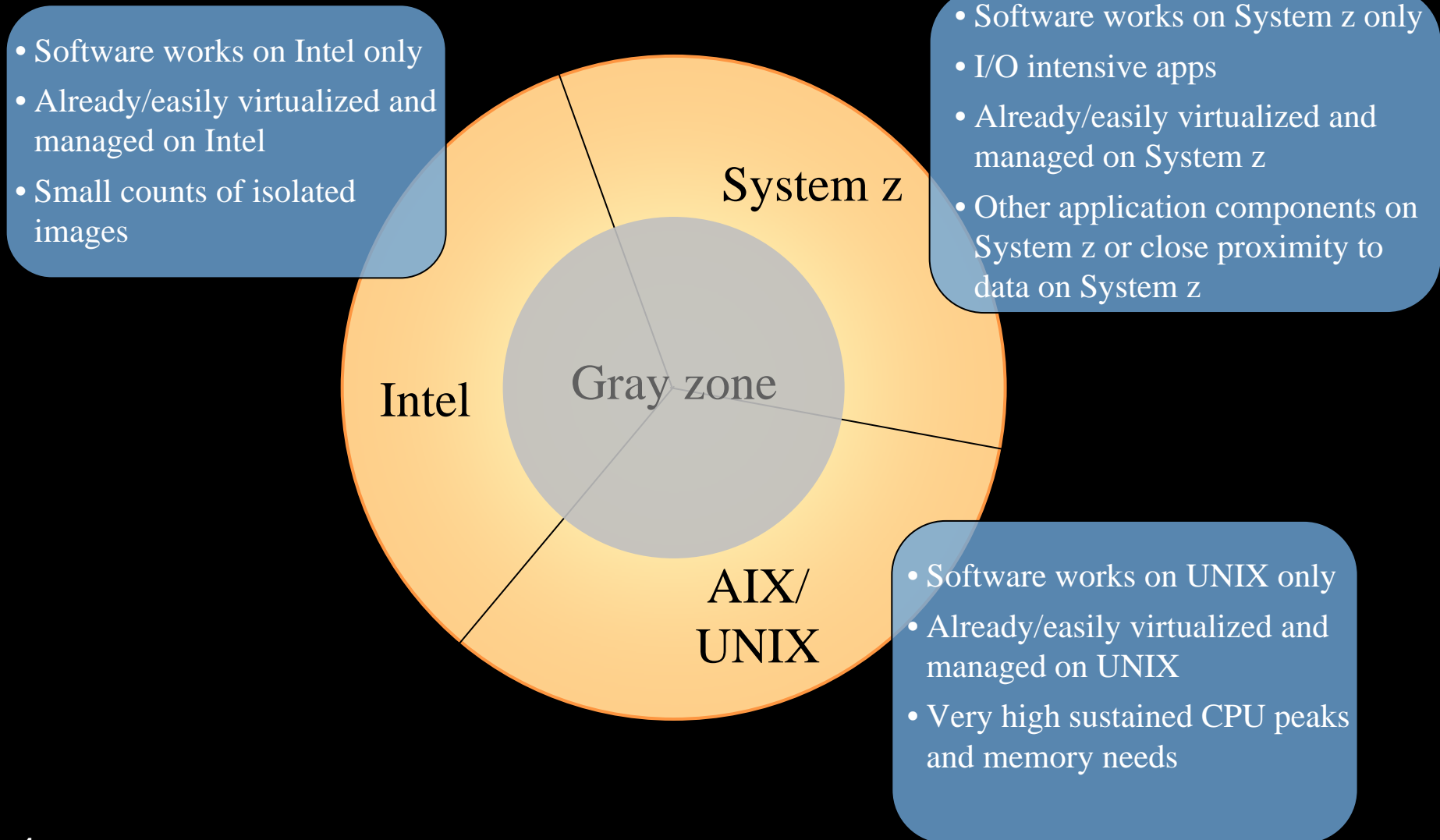
Business Analytics

- Scale
- Compute intensive
- High I/O bandwidth
- High memory requirements
- Varying levels of security

Static simulation/modeling

- Compute intensive
- High memory requirements
- Lower QoS

Platform: Fit for purpose for today's applications & data



Based on insights from working with hundreds of customers, here are four smart ways to quickly manage costs and gain efficiencies

- 1 Consolidate applications and data
- 2 Optimize deployment of applications and data
- 3 Reuse applications and data
- 4 Properly account for your costs

To achieve efficiencies quickly

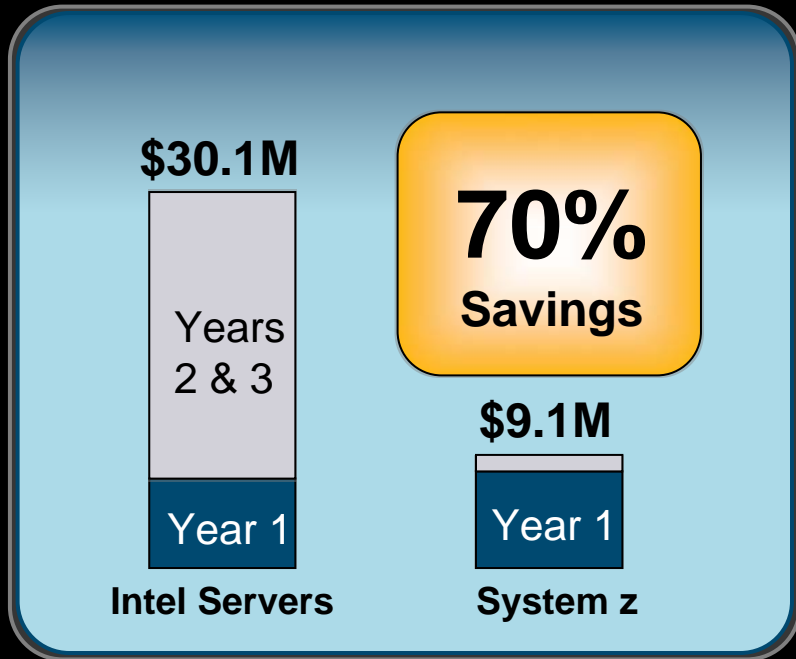
Customer Findings

- Strategic platform selection key to faster success
- Platform strengths vary; one size does not fit all
- Leverage existing infrastructure
- Take advantage of recent technology advancements

In the right circumstances, System z has helped clients gain significant efficiencies, while improving service, all at very low risk.

1. Consolidate applications and data

Drive down costs of hardware, software and management while simplifying infrastructure



Top three reasons for savings

- Consolidated 292 Oracle servers to one System z
- System administration costs 90% less on System z
- Subscription and support licenses were over 95% less on System z

A regional North American government organization

Additional benefits

Increased administrator productivity

Faster provisioning speed

Simpler Infrastructure

1. Consolidation

Datacenter on a truck

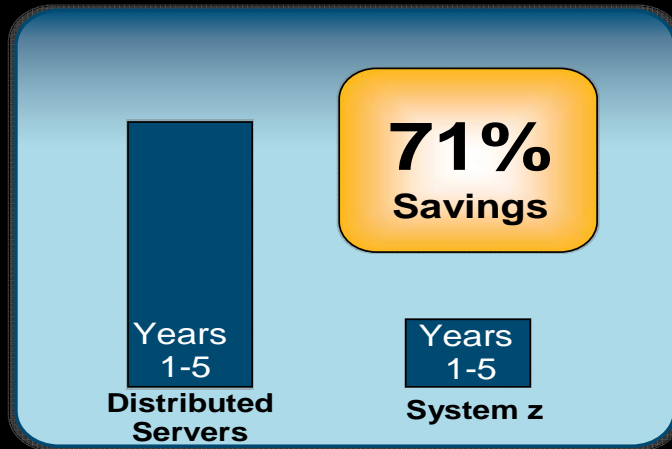


OR



2. Optimize deployment of applications and data

Deploying a portal application



A large technology organization

Top three reasons for savings



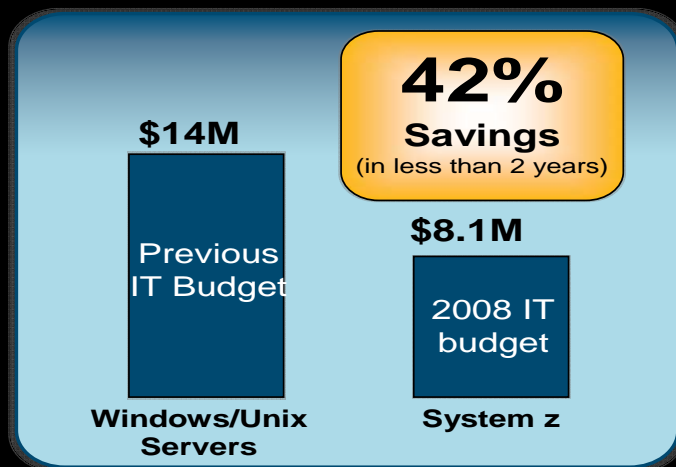
93% reduction in software licenses:
26,700 down to 1,800



Greatly reduced labor costs due to less administration



Hardware costs are dramatically less



Top three reasons for savings



Software and hardware licensing costs dramatically reduced



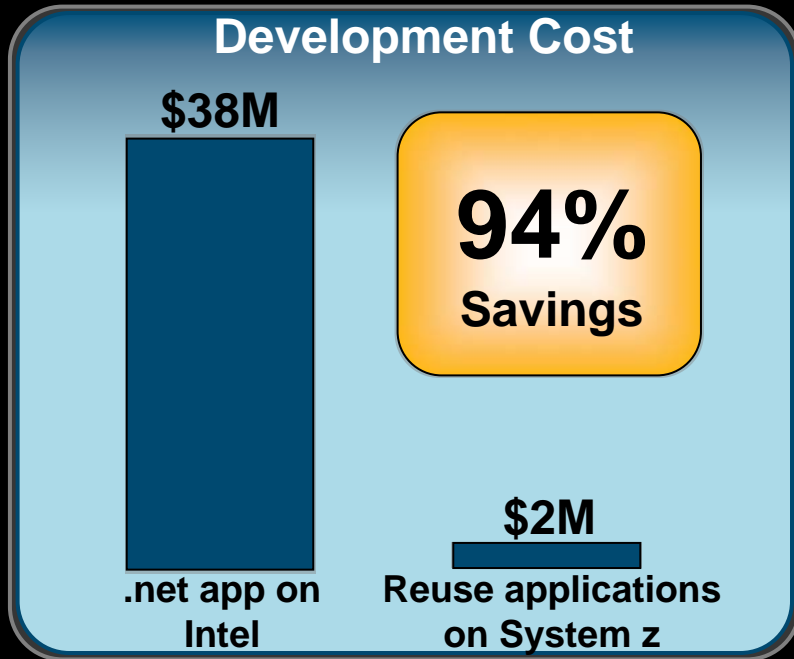
Software and hardware maintenance costs are significantly down



Networking costs plunged, while infrastructure was drastically simplified

3. Reuse applications and data

Replacing existing legacy application with web-based customer facing application



Top three reasons for savings

- ✓ Complexity of recoding from scratch all the business processes into .net framework
- ✓ Speed of implementing System z solution was less than 29 days
- ✓ Additional employees to test and maintain .net application versus none for System z

A medium-sized financial services vendor

Additional benefits

Improved application
functionality





Faster time to market

Quick implementation and
reduced risk

4. Properly account for your costs

**“False Economics”:
Over-allocation of Costs to System z**

Getting to “True Economics”

	Intel/UNIX Servers 	Mainframes 
Direct Costs Hardware, Software, Admin	\$ Correct allocation	\$ Correct allocation
Shared Costs Power, Facilities, Network, Mgmt overhead, etc.	 Incorrect, zero allocated	\$ Correct allocation
All of Intel/UNIX incurred costs are moved to mainframe		

Core problem

- Difficult to assign shared costs to platforms
- Shared costs lumped in with mainframe costs
- Thus, mainframe costs tend to be overstated
- Platform decisions are made that waste cash

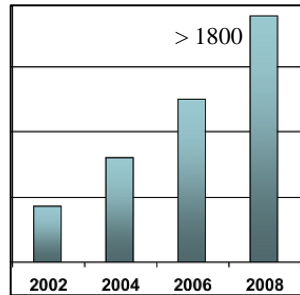
Pragmatic quick-return remedy

- Meter basic usage
- Identify largest cost distortions
- Incorporate information in decision making

System z – Thriving environment for today’s and traditional applications

System z Linux: fastest growing server platform

- 77% increase in System z Linux MIPS in 2008
- Approximately 1,300 System z customers are now using Linux on z
- Linux is ~15% of the customer System z install base (MIPS)
- Linux engines sold per year →



Thousands of ISVs investing in System z platform

- Over 1,000 new applications, 150+ new ISVs in 2008
- Over 2,800 LINUX applications are supported on System z; 18% growth in 2008
- Over 1,500 ISVs building applications for System z
- Recent ISV investment includes:



90% growth in mainframe education

Students educated:

- Over 50,000 worldwide, 5,000 more students in China by 2010

University adoption:

- 600 schools enrolled globally as of May 2009
- 90% growth in 2 years; 2,000% since 2003; continued flow of schools adding curricula
- 50%+ outside of US

Schools participating across North America, Latin America, Europe, Middle East, Africa, and Asia



System z – Thriving environment for today's and traditional applications

IBM key announcements: increasing benefits to today's and traditional applications

Drive down costs and boost performance of data warehouses:

InfoSphere Warehouse Accelerator (tech preview)

Lowest cost, highest performing database in the industry:

DB2 X for z/OS (tech preview)

Simplify the integration of mainframe apps and data into modern applications:

CICS v4.1

Simplify cross-platform development and deployment:

Multiple product releases from Rational



System z: Complimentary Offers to help you to reduce costs



Cost and risk analysis: use of mainframe vs. alternatives

- Off-site preparation and on-site information gathering
- Analysis developed over two weeks, concluding with a findings summary



Portfolio Review & Analysis

- Reviews existing software portfolio under various growth scenarios
- Makes specific recommendations on ways to optimize software costs



True economics cost allocation assessment

- Analysis of IT infrastructure costs and current cost associations
- Recommended steps for improvement provided within 10 business days



Summary




Typical Utilization for Servers

Windows: 5-10% Unix: 10-20% **System z: 85-100%**

System z can help **reduce** your floor space
up to **75%-85%** in the data center



Thank You



System z can lower your total cost of ownership, requiring **as little as 30%**
of the power of a distributed server farm running equivalent workloads

The cost of storage is typically **three times more** in
distributed environments

