



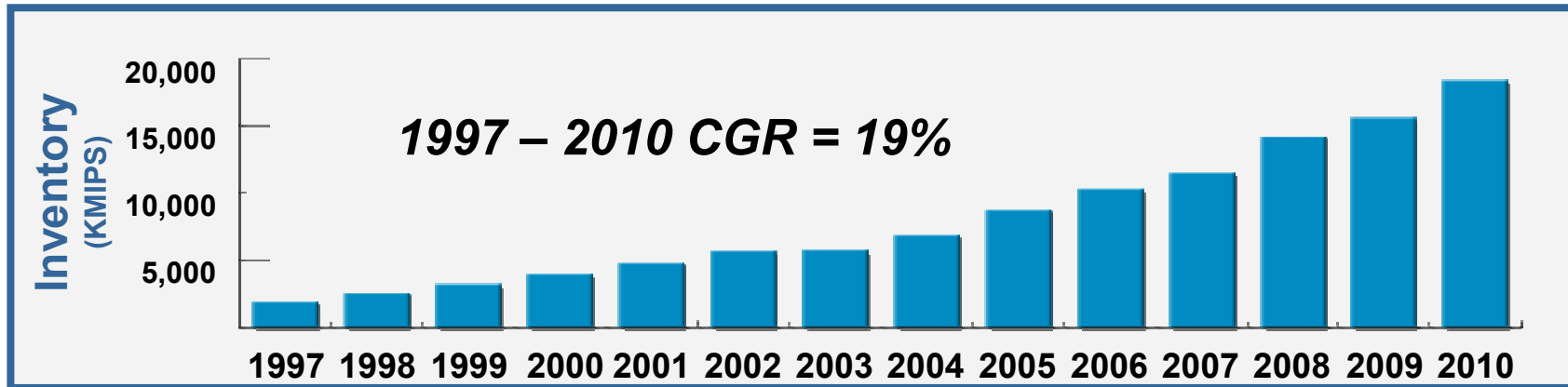
# Welcome to DB2 for z/OS Modernisation

*The future runs on System z*

John Eagles  
System z IM BUE  
IBM Asia Pacific



# System z – Dramatic growth with modern workloads



## Strategic workloads

- ▶ Transaction Processing
- ▶ Virtualization
- ▶ Risk Management
- ▶ Business Intelligence and Analytics
- ▶ BPM
- ▶ Cloud computing

*Developed an open development environment for modern architectures. Deployment which can be done both in Cobol and in Java, depending on the requirement and use.*

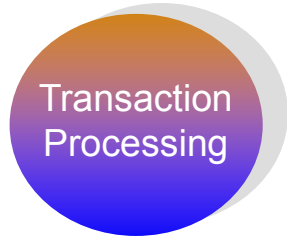
**– Atos Origin**

**37%** New workloads YTY growth – the highest growth in decades

New customers since 4Q 2010 that implemented new workloads on System

**105**

# Clients are moving strategic workloads to System z



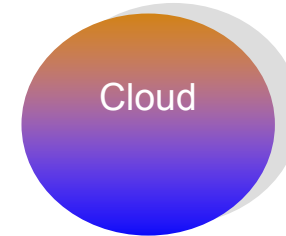
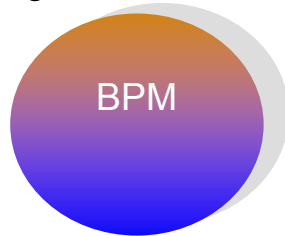
Moved from HP to System z for a highly reliable processing of thousands transactions/second



Consolidated intel servers to System z to guarantee high availability to their SaaS customers and support high business growth.



Used superior System z security to run a new operational risk management solution



Used System z for direct access to operational data as it happens and as the data is created



Built a WebSphere based solution on System z for Internet banking and ATMs connected to core banking application



Built a cloud-based solution by providing computing services to local community, enabling fishermen, wine growers, etc to contract for services

## System z – the heart of Smarter Computing

### **Big Data:** Designed for data

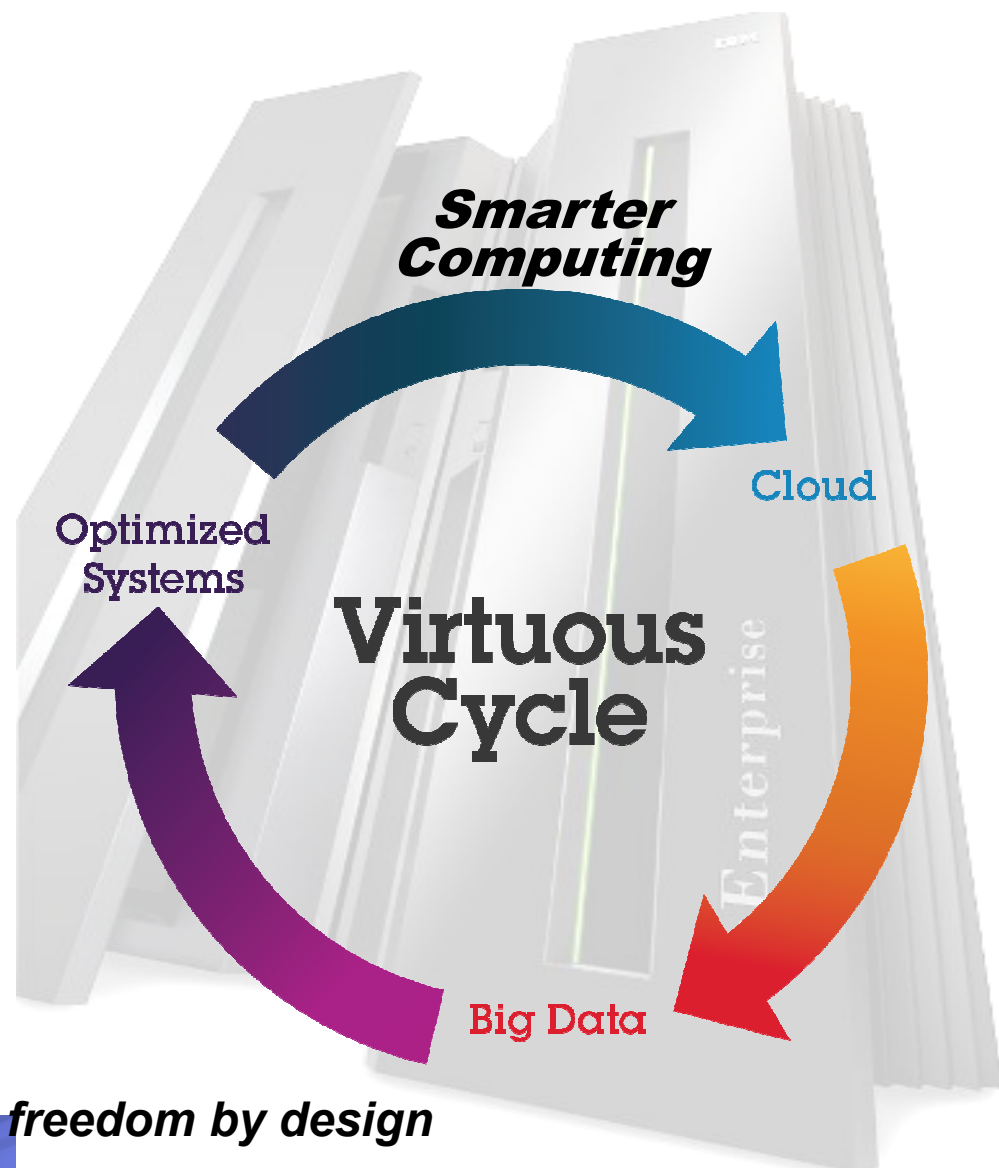
**System z** removes barriers to harnessing all available information and unlock insights to make informed choices.

### **Optimized Systems:** Tuned to the task

**System z** removes financial barriers by driving greater efficiency and performance for each workload.

### **Cloud:** Managed as a cloud

**System z** removes barriers to rapid delivery of new services and realize IT without boundaries to reinvent business processes and drive innovation.



**System z - freedom by design**

## The Explosion of Data is Creates New Challenges

**91%**

of CIO's believe that existing reporting processes do not meet future requirements for timely information.

**\$40 billion**

Consumer product and retail industries lose about \$40 billion annually, or 3.5 percent of their sales, due to supply chain inefficiencies.

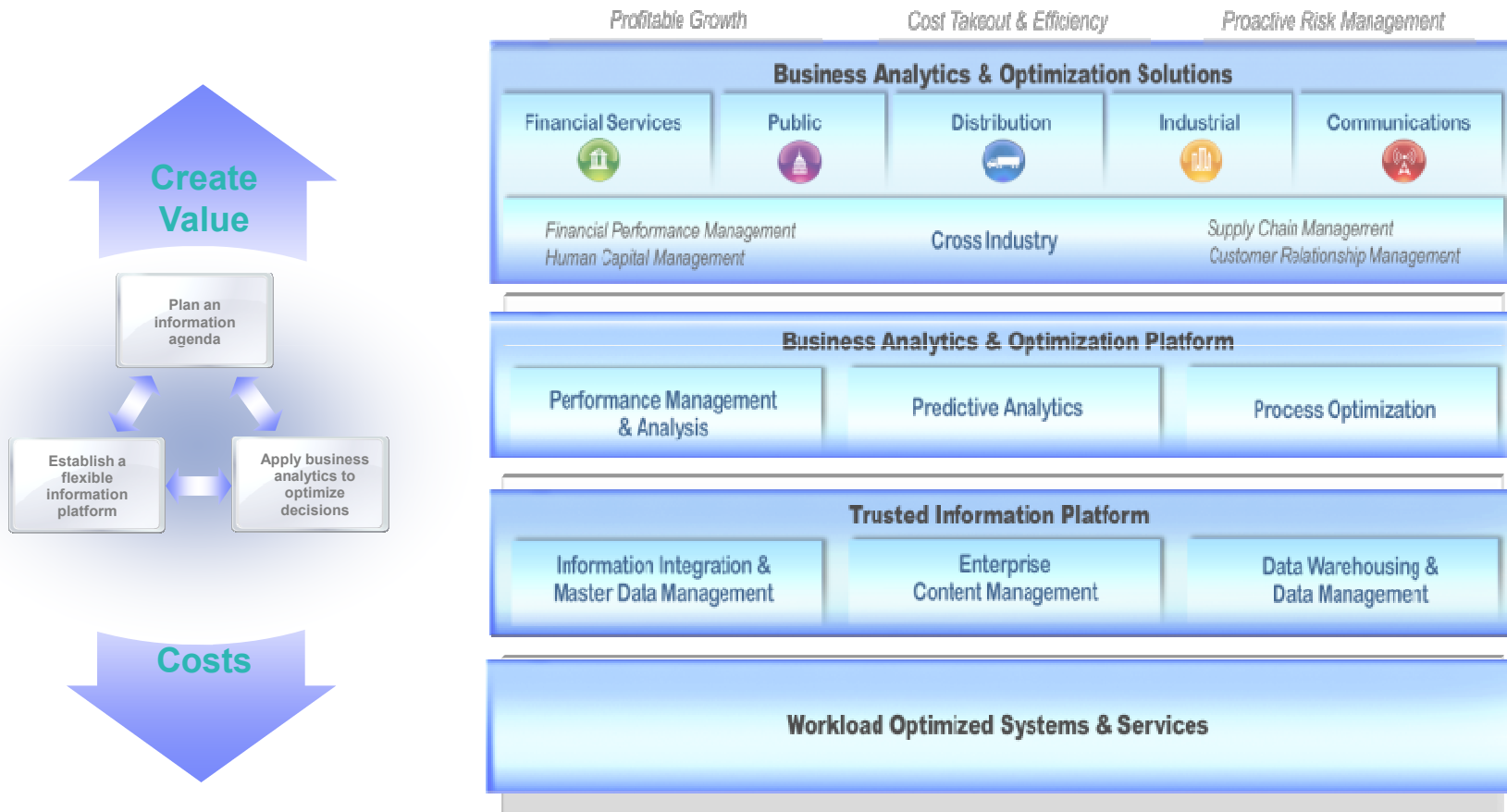
**33%**

33% of consumers notified of a security breach will terminate their relationship with the company they perceive as responsible.

**75%**

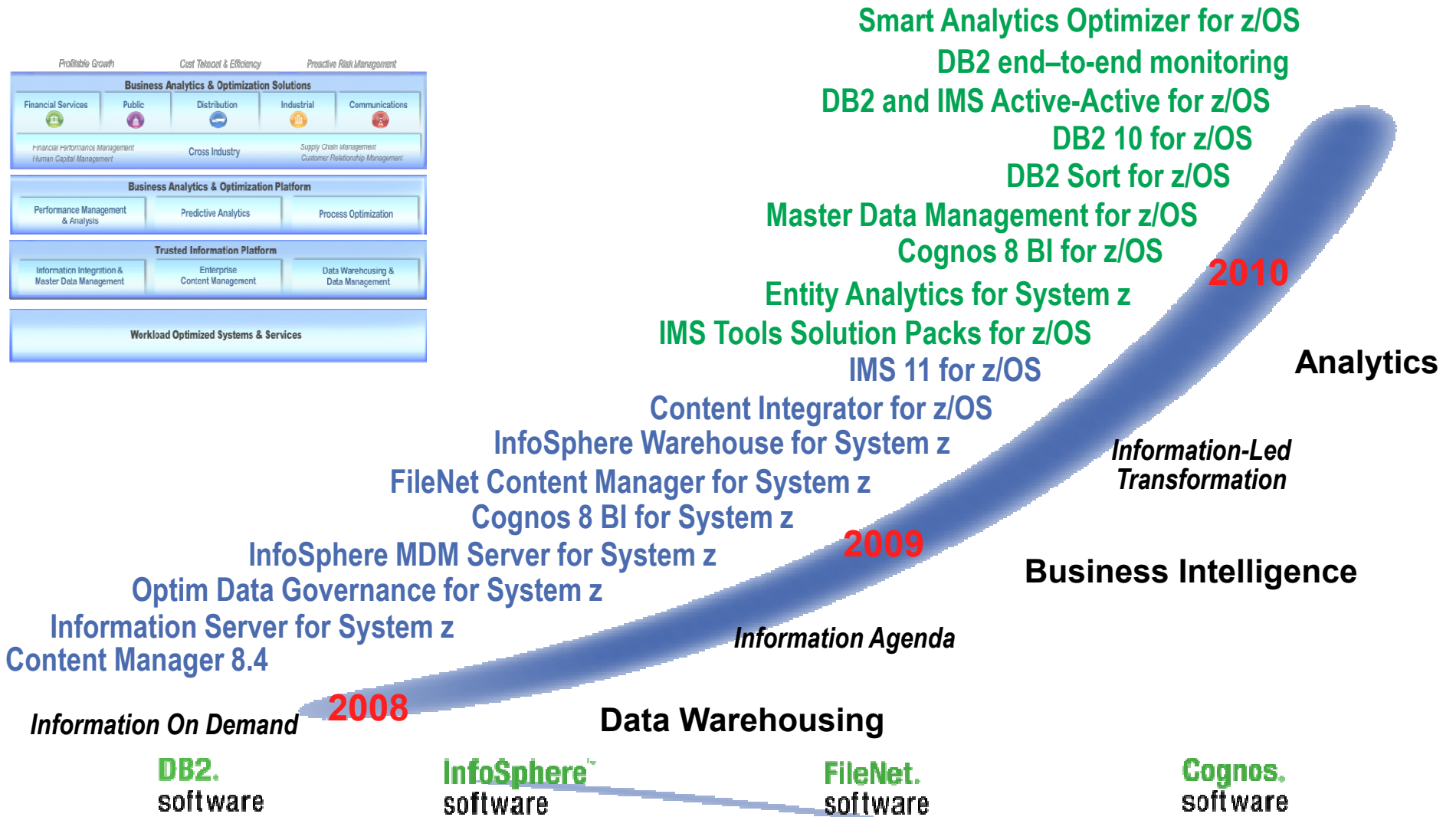
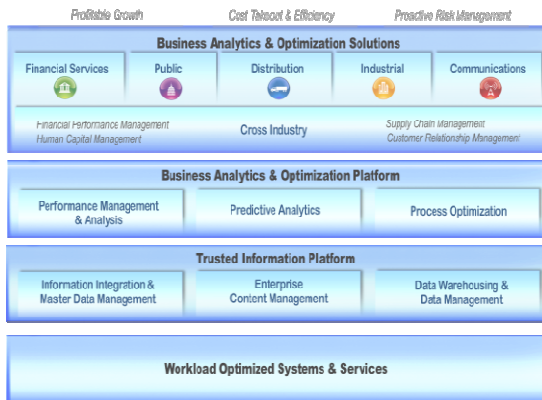
of data is replicated – over 50% of the time to more than one system.

# Getting started with an information-led transformation



# Information-Led Transformation for System z

More new capabilities delivered in the past 3 years than at any point in the mainframe's history



## DB2 10 for z/OS – An Incredible Release

- CPU reductions for transactions, queries, & batch
- Ten times more users by avoiding memory constraints
- More concurrency for catalog and utilities
- Additional online changes for data definitions, utilities and subsystems
- Improved security with improved granularity for administrative privileges, data masking and audit capabilities
- Temporal or versioned data
- pureXML and SQL enhancements improve portability
- Productivity improved for database administrators, application programmers, & systems administrators



## Why Migrate to Current DB2 for z/OS?

### ■ Business needs to save money

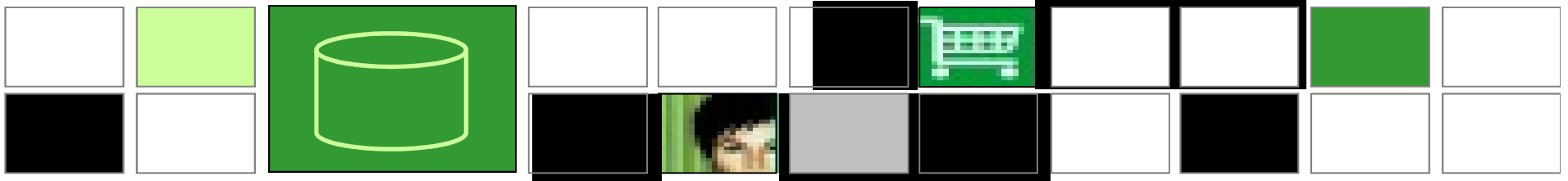
- Reduce CPU time
- Service Oriented Architecture

### ■ Application developers need improved productivity and integration

- pureXML for a faster, more capable interface to XML data
- Powerful new SQL temporal enhancements & portability

### ■ Database Administrators need

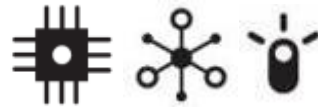
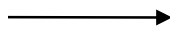
- Improved performance
- Availability, scalability & memory management
- Simpler security and regulatory compliance
- More productive database administration



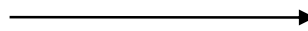
# Business Analytics Software Conversation



The world is changing.



It's becoming increasingly instrumented, interconnected and intelligent, creating an explosion of information.



## Business Analytics

That exposition of information holds the potential to deliver actionable insights for decision makers at all levels of your organization so they can optimize performance.

Optimizing performance is the ability to line up resources, opportunities and execution for optimized outcomes. It's the ability for every decision maker to have up-to-the minute information to understand how their business is doing and why. Predictive modelling and "What if" analysis provides them with the ability to predict opportunities and threats and confidently take action. Financial and operational planning, budgeting and forecasting puts resources in the right place and sets targets for those allocations.

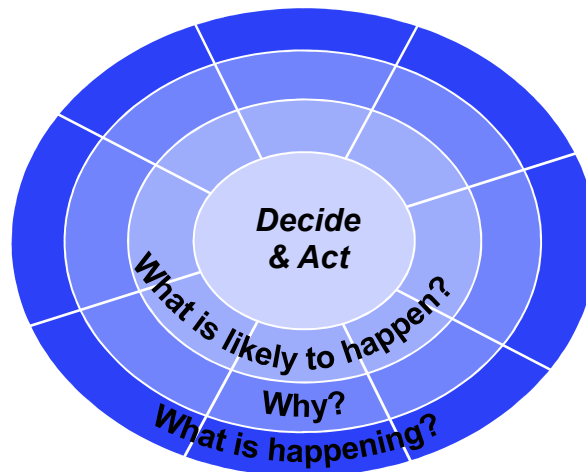
CIO/IT



CFO/Finance



LOB / EXEC



IBM Software Categories:

- ✓ Business Intelligence
- ✓ Financial PM and Strategy Mgmt
- ✓ Analytic Applications
- ✓ Advanced Analytics

**Cognos.**  
**software**

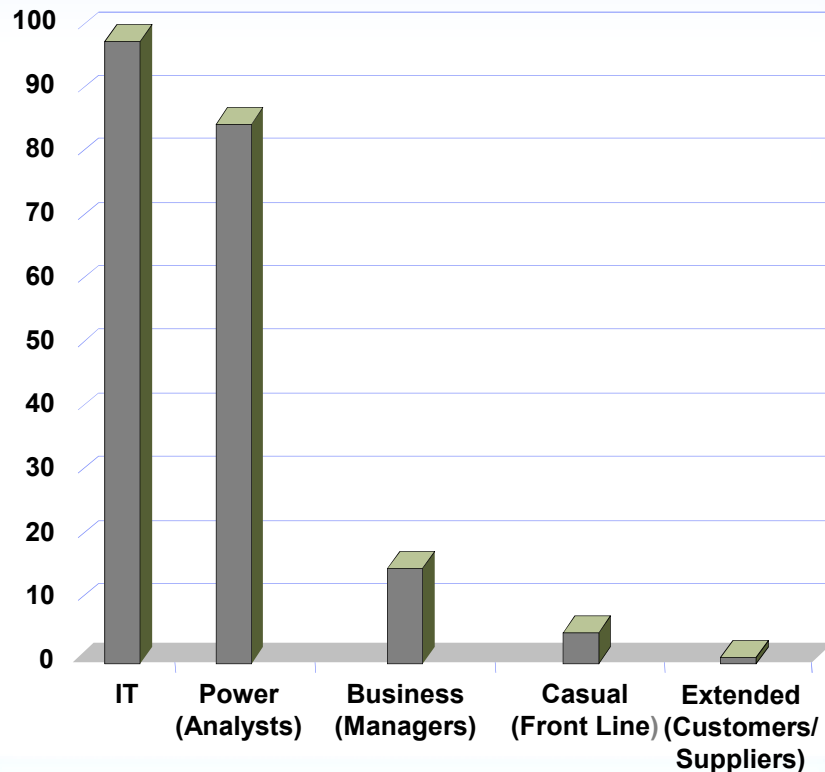
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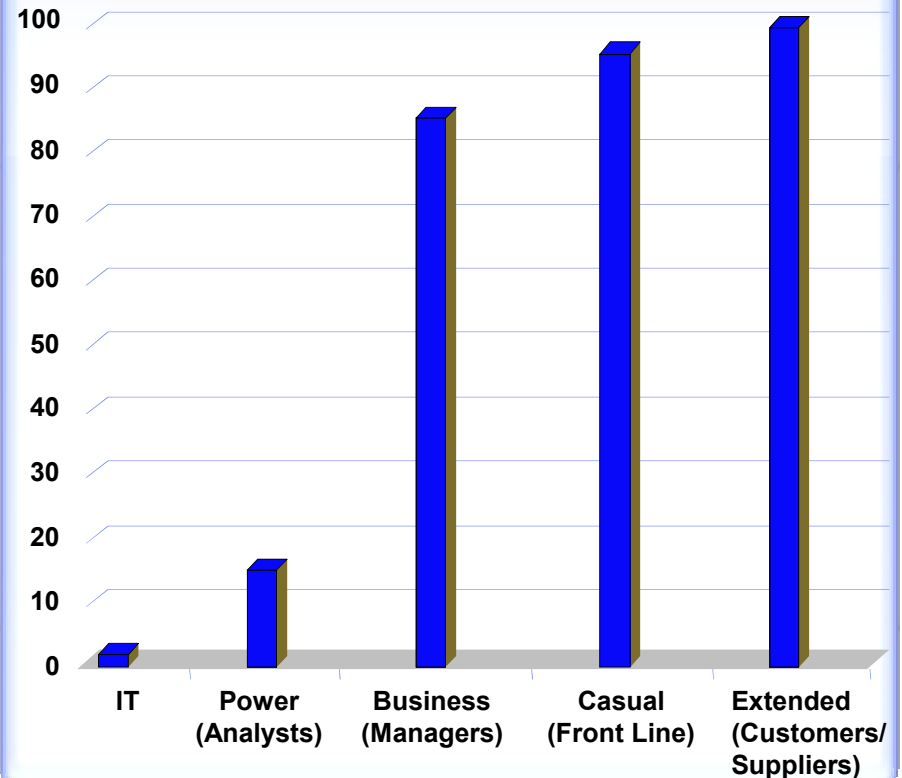
# Usage Patterns for Business Intelligence are Shifting

*Business intelligence is needed across and beyond the enterprise*

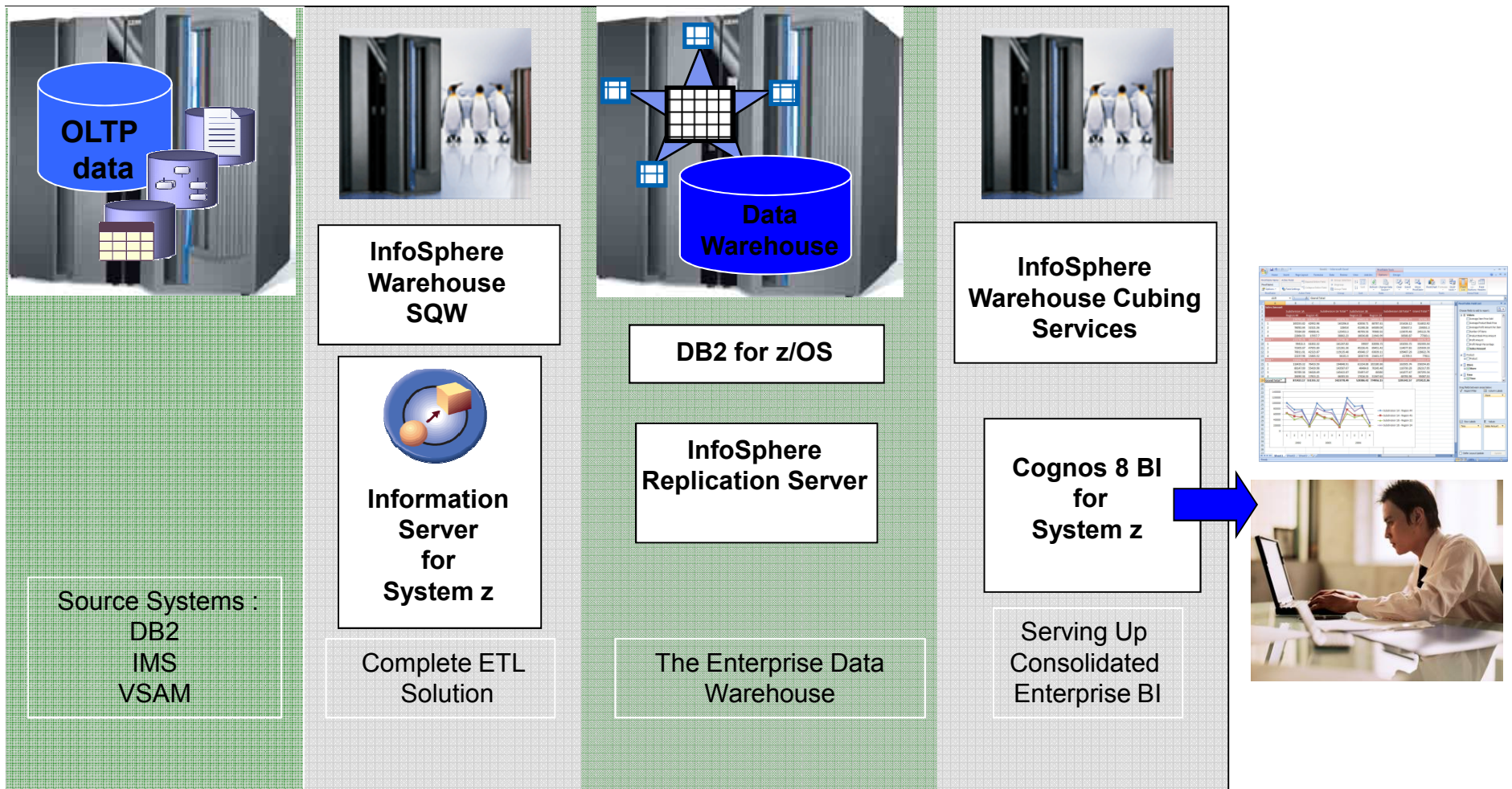
**Who is using business intelligence tools today?**



**Who can get most value out of business insights?**



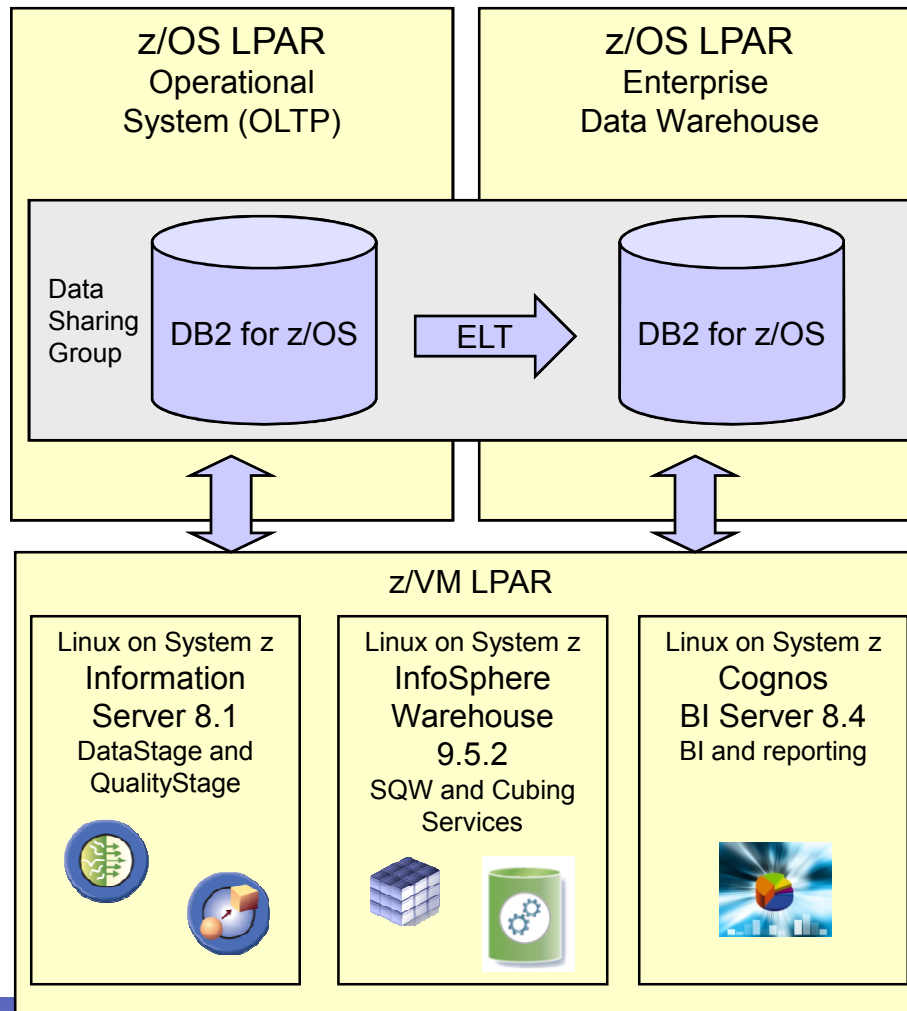
# Data Warehouse and BI System z Solution



Combining the Reliability and Availability of DB2 for z/OS with Cost Effective Applications running on Linux for System z

# The IBM Data Warehouse Solution on System z

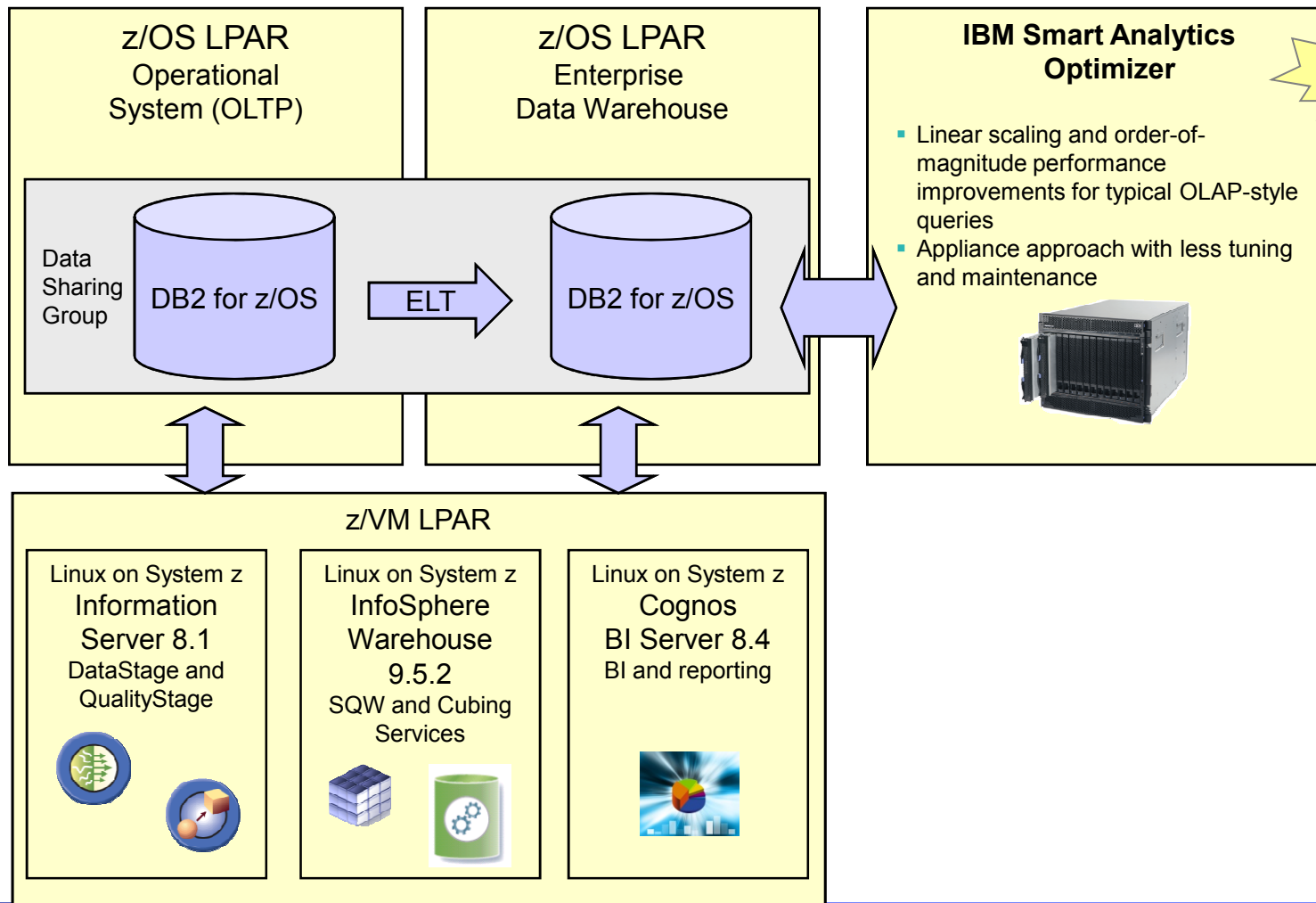
## *Ultimate Consolidation Opportunity*



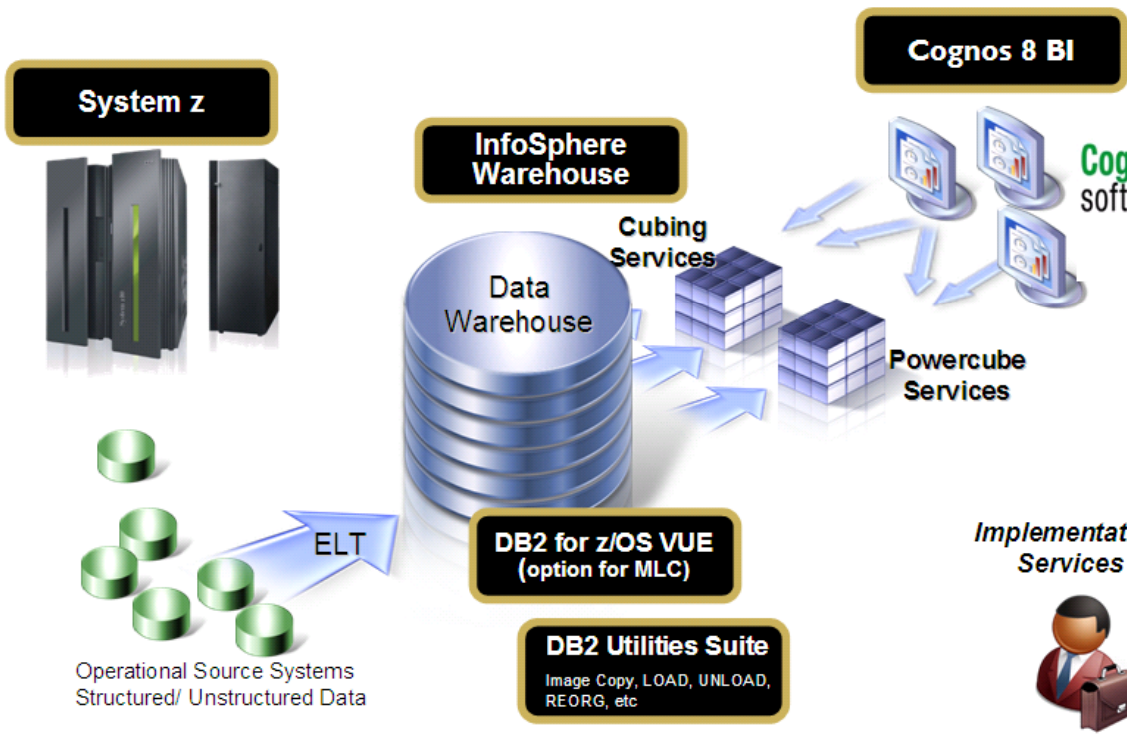
- Consolidation of mission-critical data on System z
- Ability to leverage existing environment, high availability, backup and governance procedures as well as skills
- Efficient data movement within a data sharing group (no network)
- Performance and TCO improvements through cubing services (data marts) and DB2 enhancements
- Complex transformations and data quality driven from Linux on System z with Information Server

# IBM Smart Analytics Optimizer

## Adding Industry Leading Performance



# IBM Smart Analytics System 9600



- DB2 for z/OS and Utilities**
- Range Partitioned Data
  - CPU Parallelism
  - Data and Index Compression
  - DB2 Data Sharing

- InfoSphere Warehouse**
- SQW and Cubing Services

- Cognos 8 BI for Linux on System z**
- Consolidated and high server utilization rates

- z/OS**
- Workload Management
  - Storage Management System
  - Hardware-Assisted compression, I/O and availability

- Implementation Services**
- System z10**
- Hardware gold standard
  - Reduced costs via specialty processors
  - Single-Server reduced complexity, failure points, and latency
  - Enterprise Class Storage

- Implementation Services**
- Rapid deployment and time to value
  - Ensure customer success

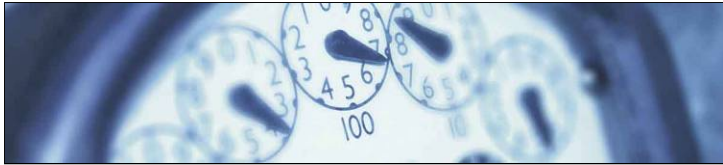
## System z: The platform for the future

**“You cannot think seriously about your longer-term IT architecture without thinking equally seriously about what today's mainframe environment has to offer”**



**CIO Magazine: Mainframe computing is set for a rebirth – September 29, 2009**





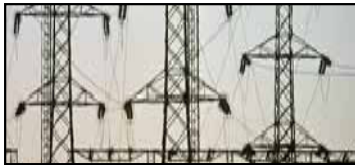
### Typical Utilization for Servers

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

