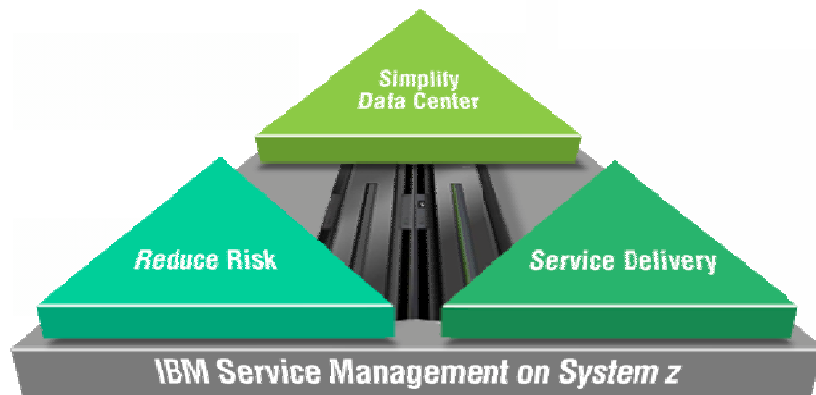


IBM Service Management on System z for zEnterprise

The one system
that will unite the others.



zEnterprise:

A system of systems that unifies IT for optimized service delivery

zEnterprise Unified Resource Manager

- Unifies management of resources, extending IBM System z qualities of service end-to-end across workloads
- zEnterprise firmware that provides platform, hardware and workload-aware resource management

IBM zEnterprise™ 196 (z196)

- Optimized to host large scale database, transaction, and mission critical applications
- The Most efficient platform for Large-scale Linux consolidation
- Capable of massive scale up
- New easy to use z/OS® V1.12

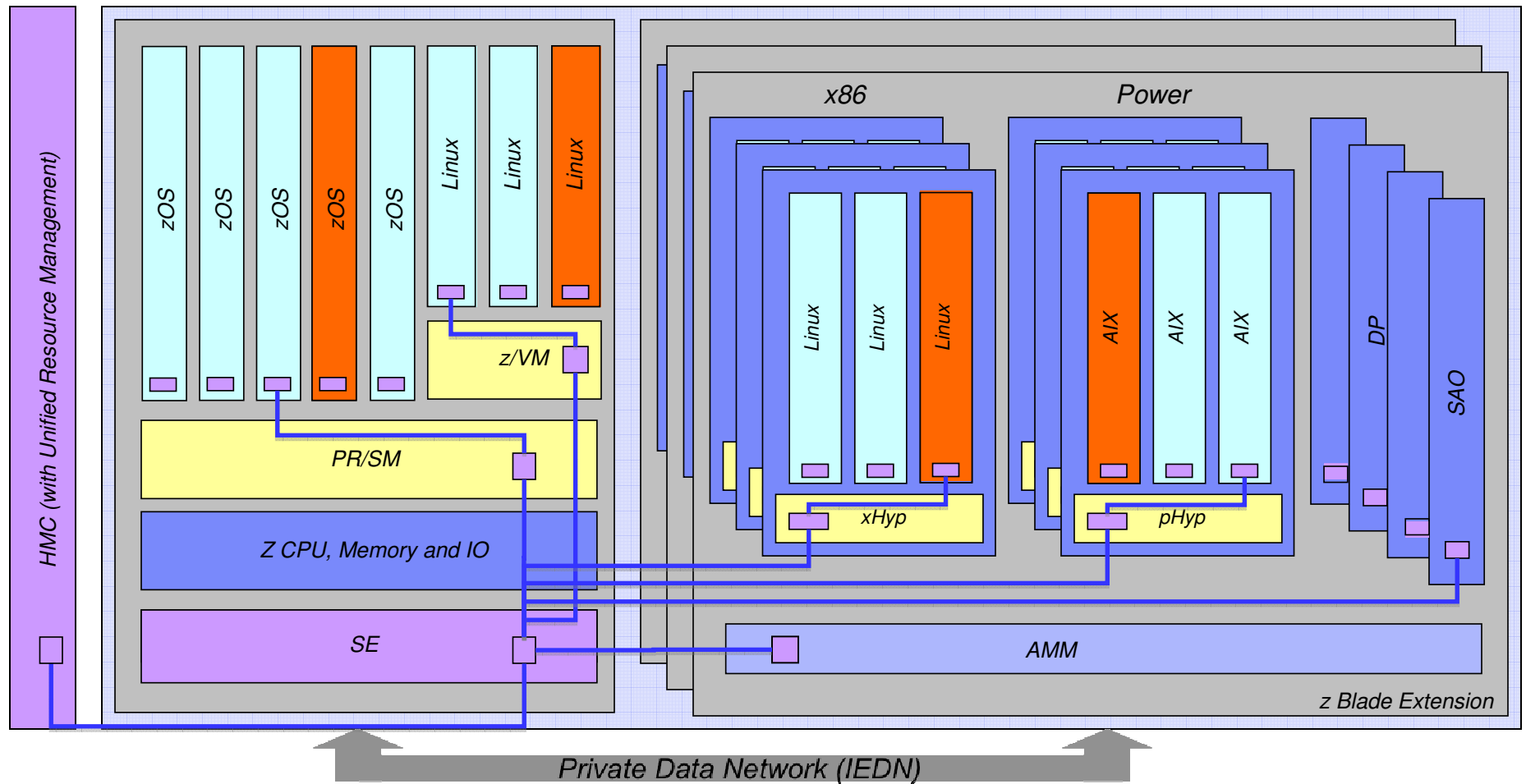


zEnterprise BladeCenter Extension (zBX)

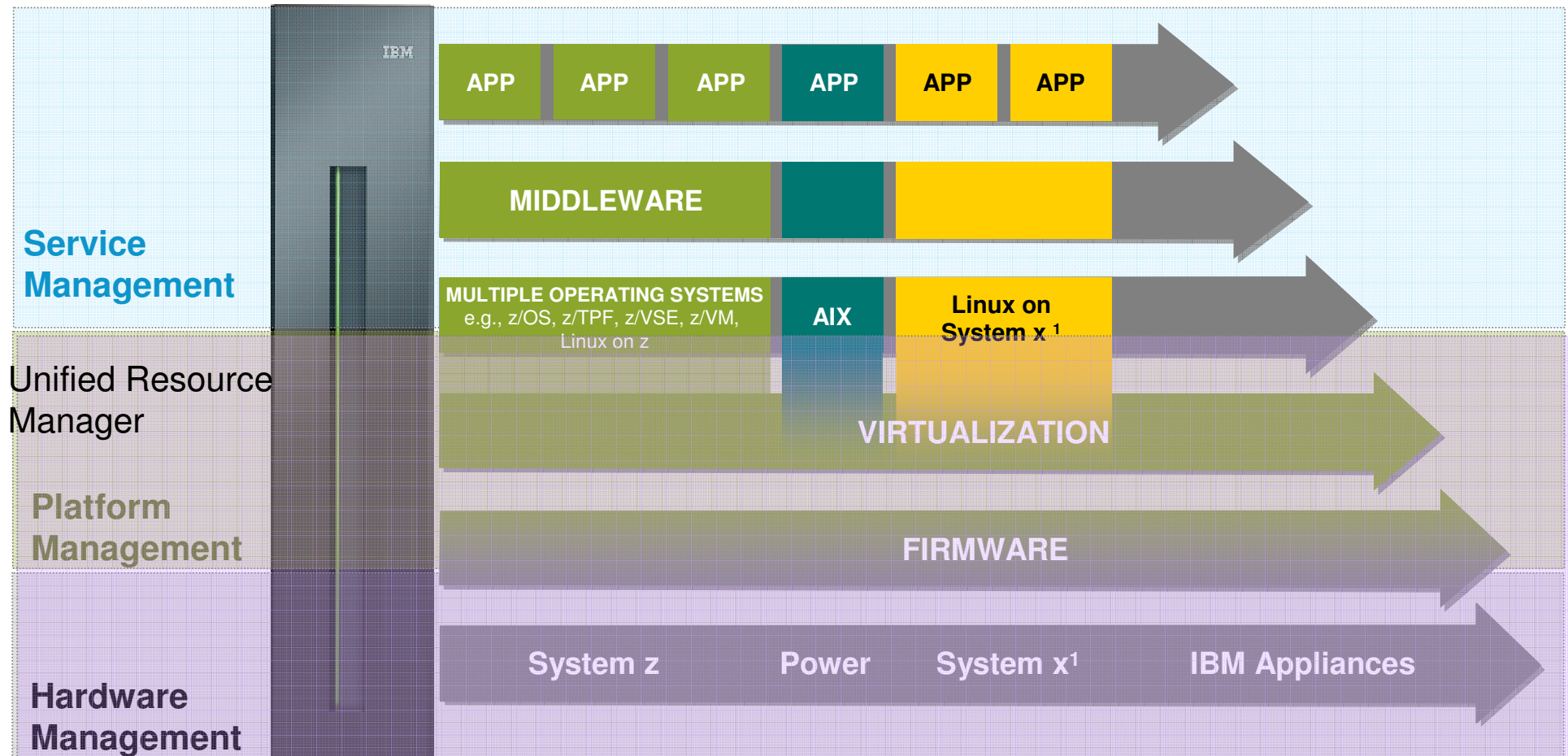
- Selected IBM POWER7™ blades and IBM System x® Blades* for tens of thousands of AIX® and Linux applications
- High performance optimizers and appliances to accelerate time to insight and reduce cost
- Dedicated high performance private network

zEnterprise System

Workload Management and Reporting (Deployment, Performance, Availability, Security, Energy)



zEnterprise: Service Management Stack



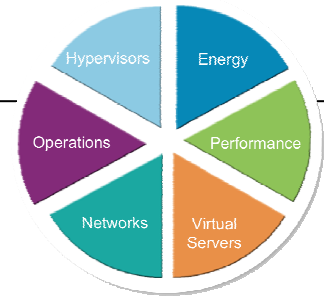
Focused, collaborative innovation

A “complete systems” approach

¹ All statements regarding IBM future direction and intent are subject to change or withdrawal without notice, and represents goals and objectives only.

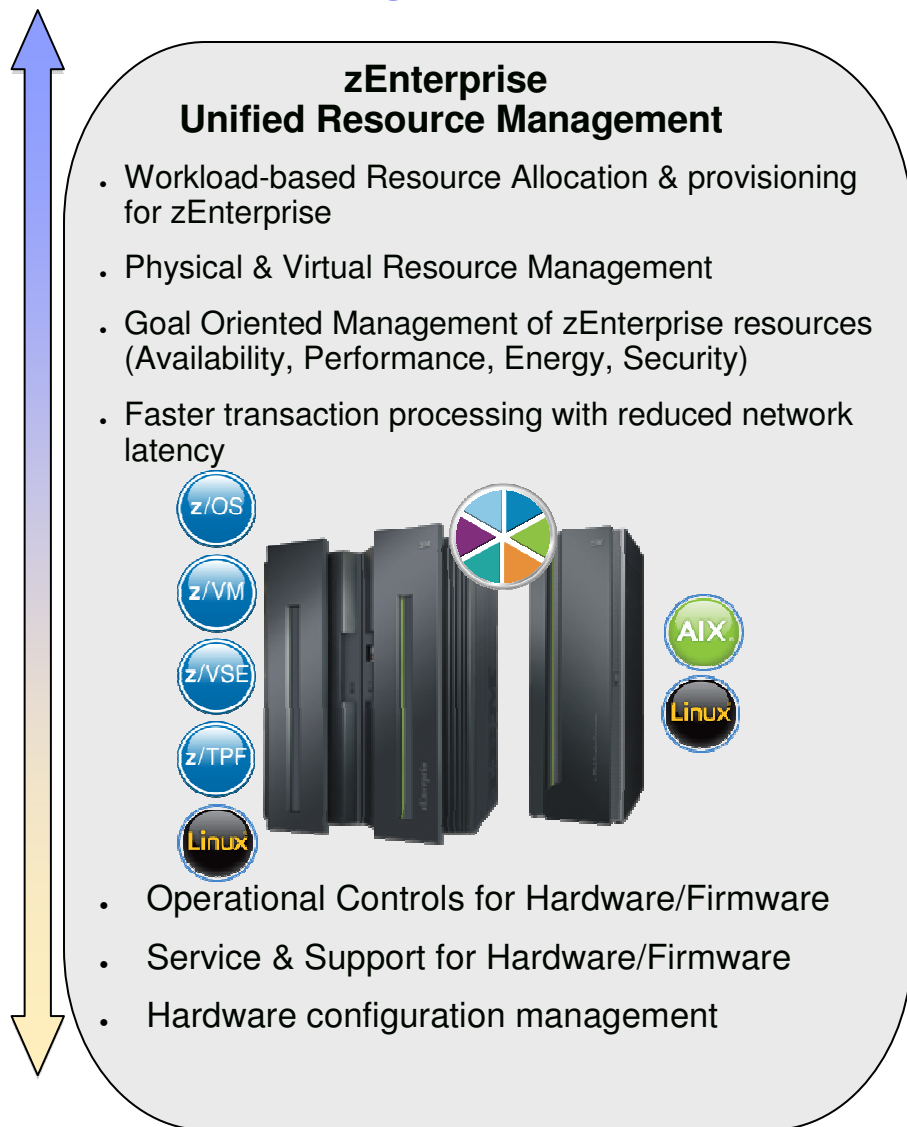
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zEnterprise Unified Resource Manager Features



- Integrated Hardware Management across all elements of the Hybrid
 - Operational Controls
 - Firmware Inventory, Update, and Service
 - Hardware and Firmware Problem Detection, Reporting, and Call Home, Field Guided Repair and Verify
 - Physical Hardware Configuration, Backup, and Restore
 - Secure Internal Management Network
 - Integrated Discovery and Resource Inventory
- Integrated Hypervisors
 - Packaged, Deployed, and Serviced as System z Firmware
 - Integrated Hypervisor Management (Configuration, Monitoring, Problem Management and Reporting, Service)
 - Automated Backup and Recovery of Hypervisor Configuration, Isolated from Hardware Failures
 - Secure Internal Management Network
 - Part of the Trusted Compute Base (Intrusion Prevention, Integrity, Secure Virtual Switches)
- Intra-Node Management Network (INMN)
 - Single private, secure and physically isolated network facilitates management of complex without impact from or to business function running on data networks
- zEnterprise Data Network (IEDN)
 - Simple, Pre-Configured Network Configuration
 - Secure, Access Controlled Virtual LANs with Dynamic VLAN Provisioning
 - Reduced Need for Firewalls and Encryption, Reduced Network Hops
 - Fully Redundant for Availability
- Energy Management
 - Energy consumption reporting across all elements of zEnterprise
 - Integrated Graphical Interface and Integration with Active Energy Manager
- Virtualization Management
 - Dynamic Provisioning of Virtual Servers, Virtual LANs, and Virtual Storage
 - Consistent Interface Across Hypervisor Types
- Workload Awareness
 - Ability to represent physical and virtual resources used in the context of a Deployed Business Function (Workload)
 - Basis for Monitoring, Reporting, Resource Optimization, and Recovery (Service Level Objective Alignment)
- Platform Performance Management
 - Workload Scoped, Goal Oriented Policy
 - Virtual Server Monitoring and Reporting
 - Adjustment of Virtual CPU Capacity across all Hypervisors (Multi-Hypervisor IRD)
 - Goal aligned Balancing Recommendations to Network Routers and DataPower
- IBM Smart Analytics Optimizer
 - Complex Query Accelerator extension to DB2 for z/OS
 - Application Transparent
 - Query Acceleration and Consistency
 - Managed from DB2 for z/OS and zEnterprise zManager
- DataPower Integration
 - Integrated Hardware Management
 - Benefits from performance/simplification/security of zEnterprise Data Network
 - Integrated with Platform Performance Management

Extending zEnterprise Unified Resource Manager with Integrated Service Management



Tivoli & Integrated Service Management

★ Visibility, Control and Automation for Applications, Transactions, Databases, all Datacenter Resources

★ Integrated Operational Dashboards to monitor and manage service impacting events

★ KPIs applied to Business Services for impact analysis

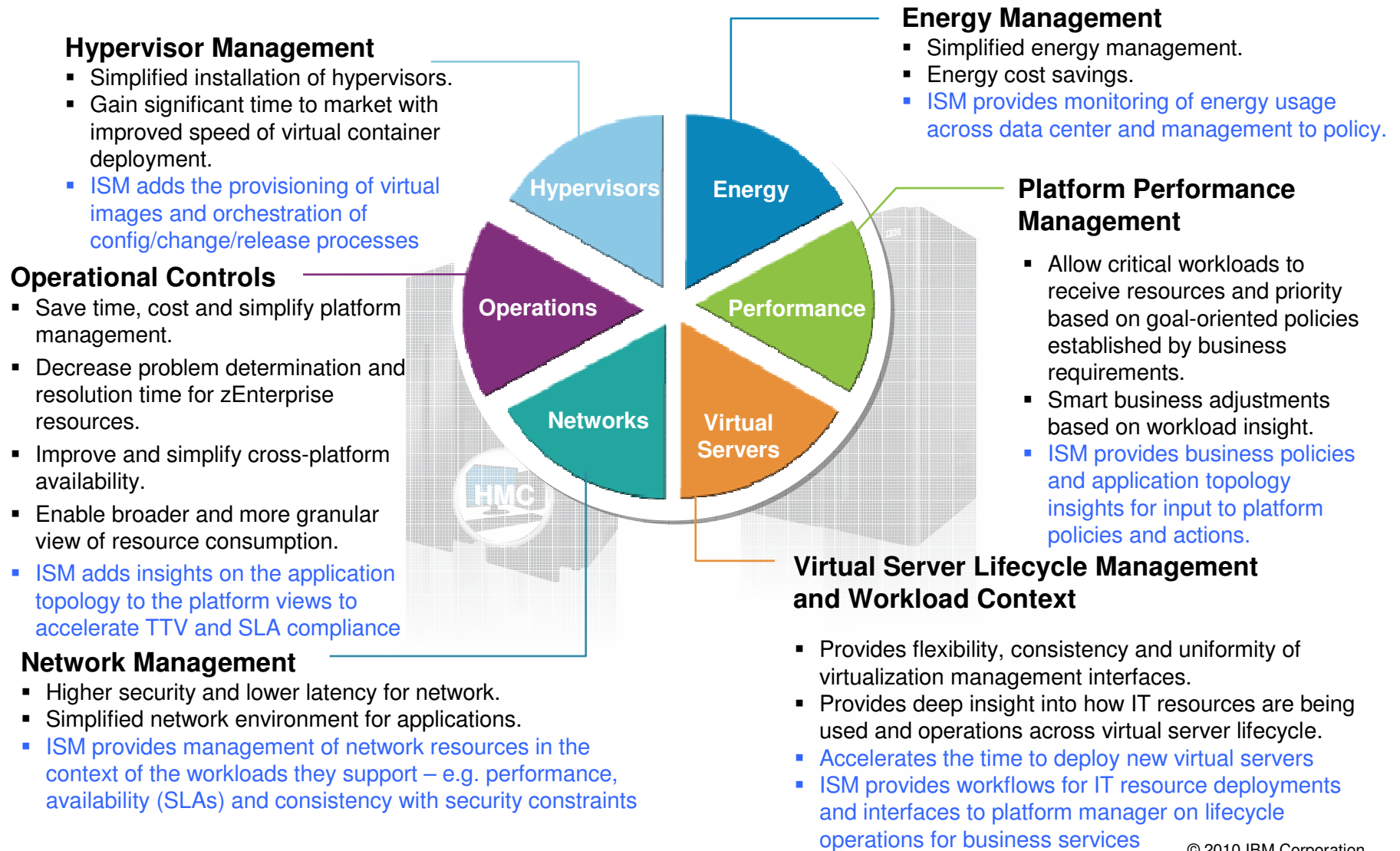
★ Heterogeneous data in ONE

★ Business Service Modeling for planning

★ Contextual Correlation to reduce MTTR

★ Establish and automate SLA tracking

zEnterprise value made possible by the Unified Resource Manager and Integrated Service Management from Tivoli



zEnterprise System

Workload Management and Reporting (Deployment, Performance, Availability, Security, Energy)

