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IBM Dynamic Infrastructure *for*
mySAP Business Suite™
and SAP's Adaptive Computing

Course # CB45

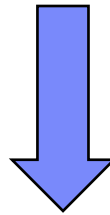
Michael Koerner, IBM Global BDM SAP eServer
Lutz Bieberstein, SAP Global Partner Management



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**IBM Dynamic Infrastructure and
SAP's Adaptive Computing complement each other**



***IBM Can Help to Reduce TCO for
SAP Customers***



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Customer Pain Points

What led to the development of SAP's Adaptive Computing?

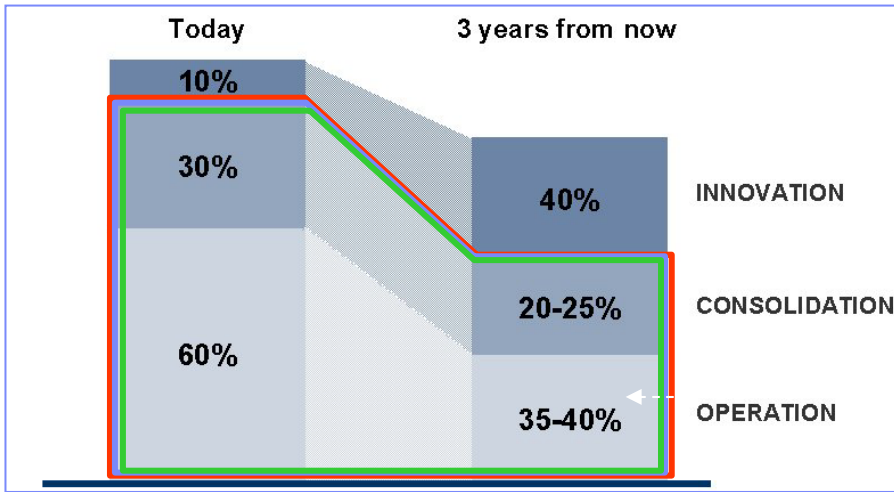


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SAP's Cost Control Vision

SAP Cost Control Vision



SAP's cost control vision will enable customers to achieve up to 30% savings, with Adaptive Computing Infrastructure even more

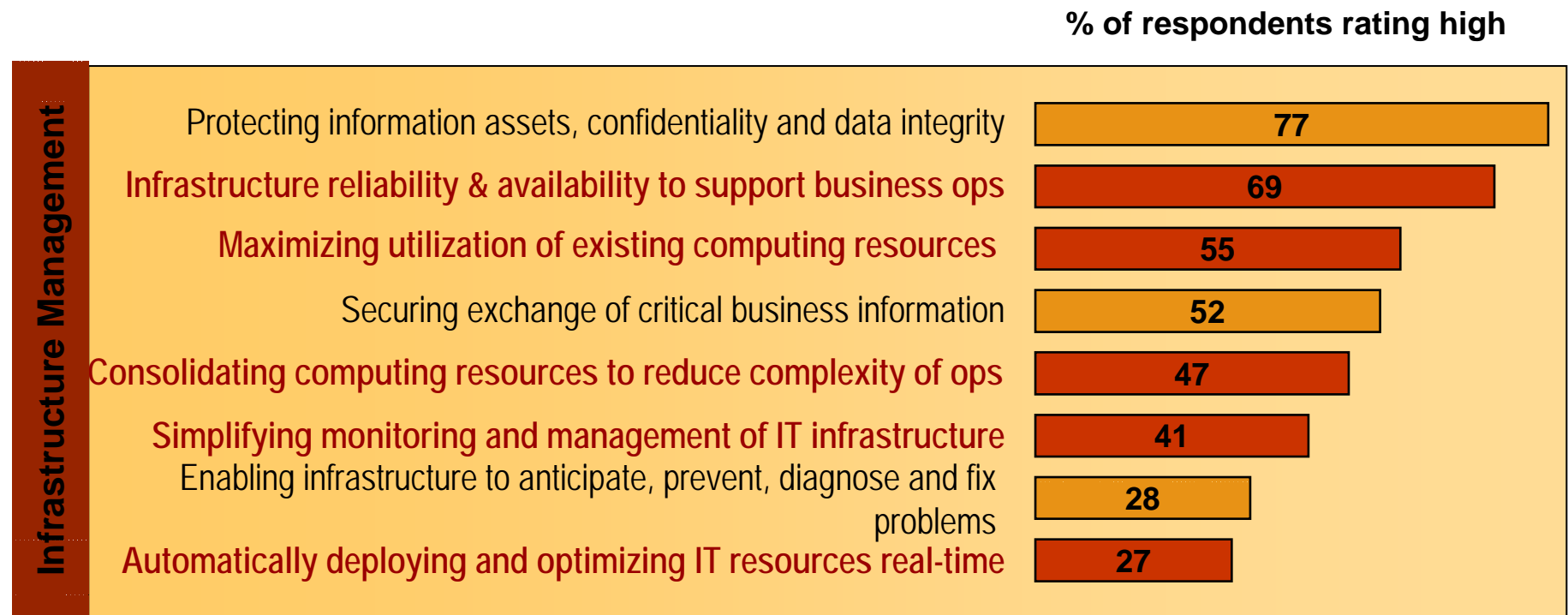
SAP Cost Component Vision

Miscellaneous	5%			
Licenses	7%	→ Business Suite	1%	SAP
Implementation				
Introduction	13%	→ Packaged Solutions	2-4%	+ Partner
Integration	15%			
Operations				
Interfacing	20%	→ SAP NetWeaver	8-12%	+ Partner
Ongoing	20%			
IT Infrastructure	20%	→ Adaptive Computing Infrastructure	9-13%	+ Partner
Total Savings Potential			20-30%	

Source : SAP AG 2003
Henning Kagermann presentation at SAPphire Orlando

Client Priorities for an **ON DEMAND BUSINESS™**

Business Drivers: Reduce Costs, Deliver Better Service Levels, Respond Rapidly to Business Change



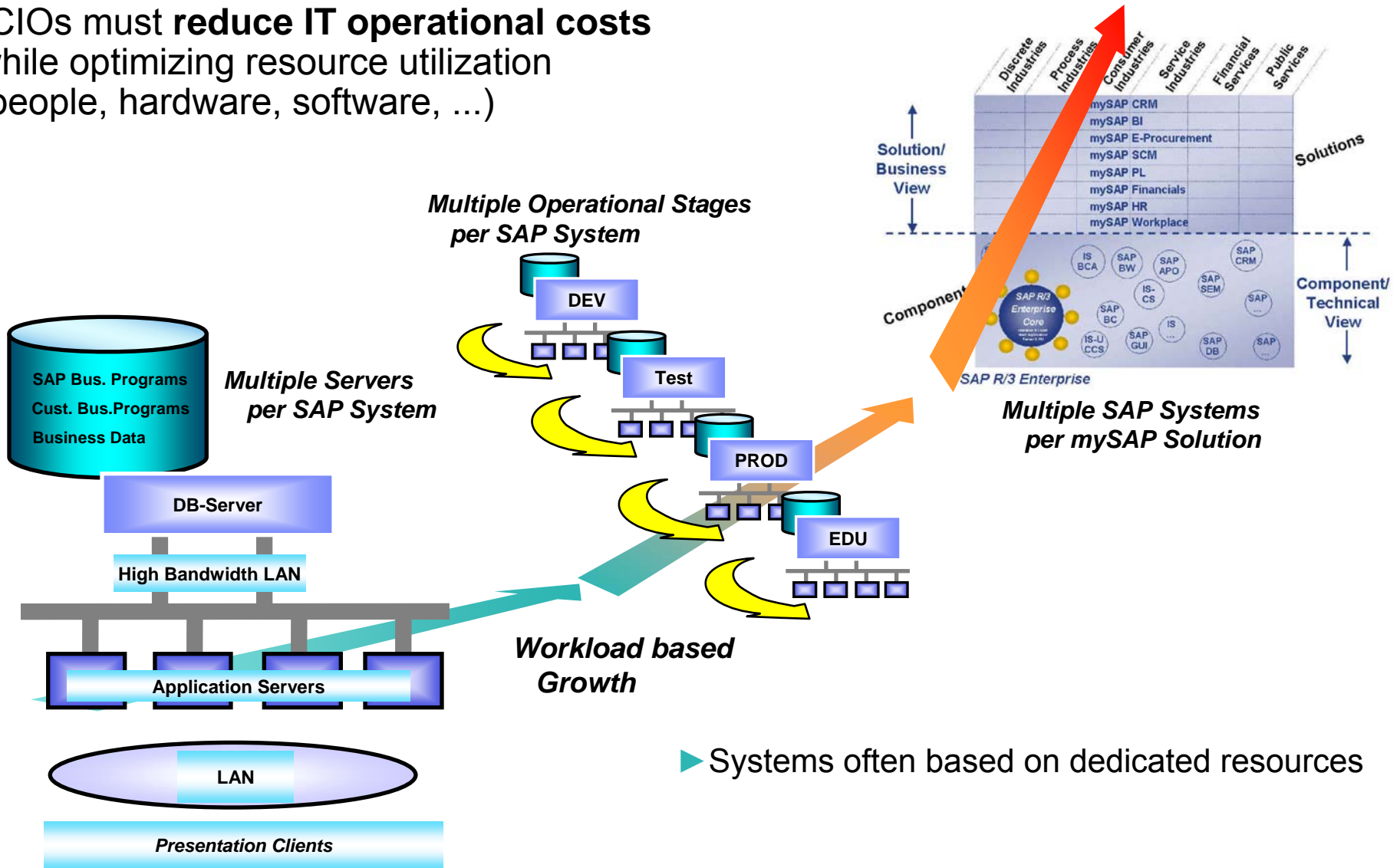
Source: Attributes and Capabilities Study June 2003 by EBOD Corporate Market Intelligence
1350 IT executives and managers surveyed worldwide

To Do: Infrastructure Simplification

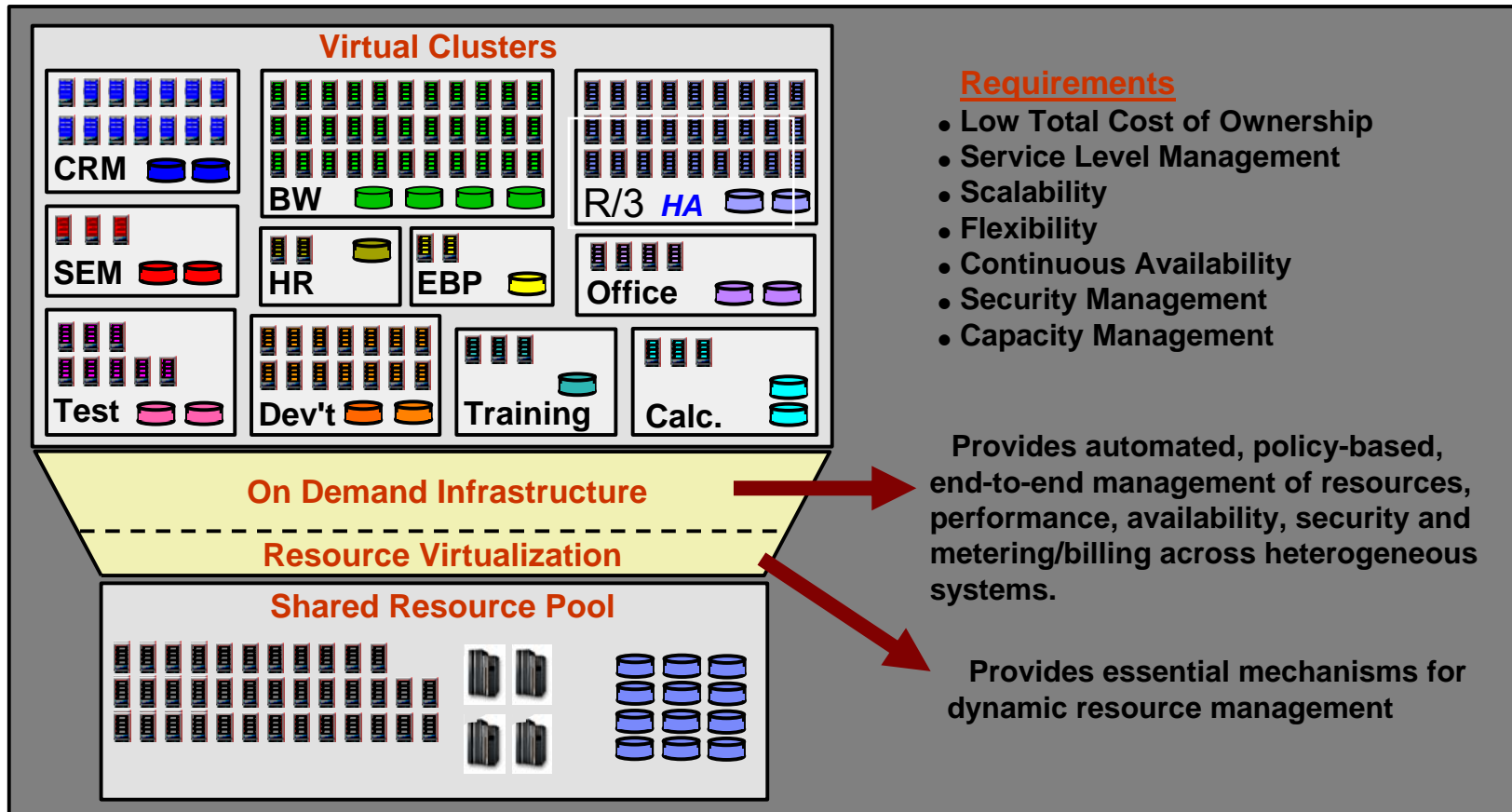
- Increase the utilization of your computing resource
- Make your systems easier to manage
- Speed the implementation of new resources
- Improve the productivity of IT employees
- Reduce the complexity of the IT environment while maintaining its reliability and security

Increased SAP System Landscape Complexity

- ▶ CIOs must **reduce IT operational costs** while optimizing resource utilization (people, hardware, software, ...)



On Demand Computing for SAP - Vision



- IT resources are pooled, virtualized, and allocated dynamically to satisfy changing business needs.
- ➔ Resources are well utilized, workload priorities are used to control consumption, and consumers pay for what they use.



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IBM Dynamic Infrastructure *for* *mySAP Business Suite*

How IBM's Dynamic Infrastructure
complements
SAP's Adaptive Computing



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SAP Adaptive Computing Compliance Test

- **Components:** Computing Node & Storage Technology & ACC Version
- IBM pSeries (AIX and IBM TotalStorage – SANFS), May 2004
- IBM eServer xSeries and BladeCenter (Linux SLES 8 and IBM TotalStorage), July 2004
- IBM eServer xSeries and BladeCenter (Linux SLES 8 and Network Appliance Storage), July 2004
- Details on <http://service.sap.com/adaptive>



CERTIFICATE OF CONFORMITY

SAP AG hereby confirms that

IBM Corporation

has been approved to receive this certificate by providing an

Adaptive Computing Compliant

Concept according to the Adaptive Computing Compliance Test.

Certificate No. 2004002

The test has been performed using the following platform and building block combination:

Computing: IBM eServer pSeries / IBM AIX 5L
Storage: IBM TotalStorage
Control: Adaptive Computing Controller V1.0

Walldorf, May 10, 2004

i.A. Bernd Lohrer
 Vice President
 Adaptive Computing
 SAP AG

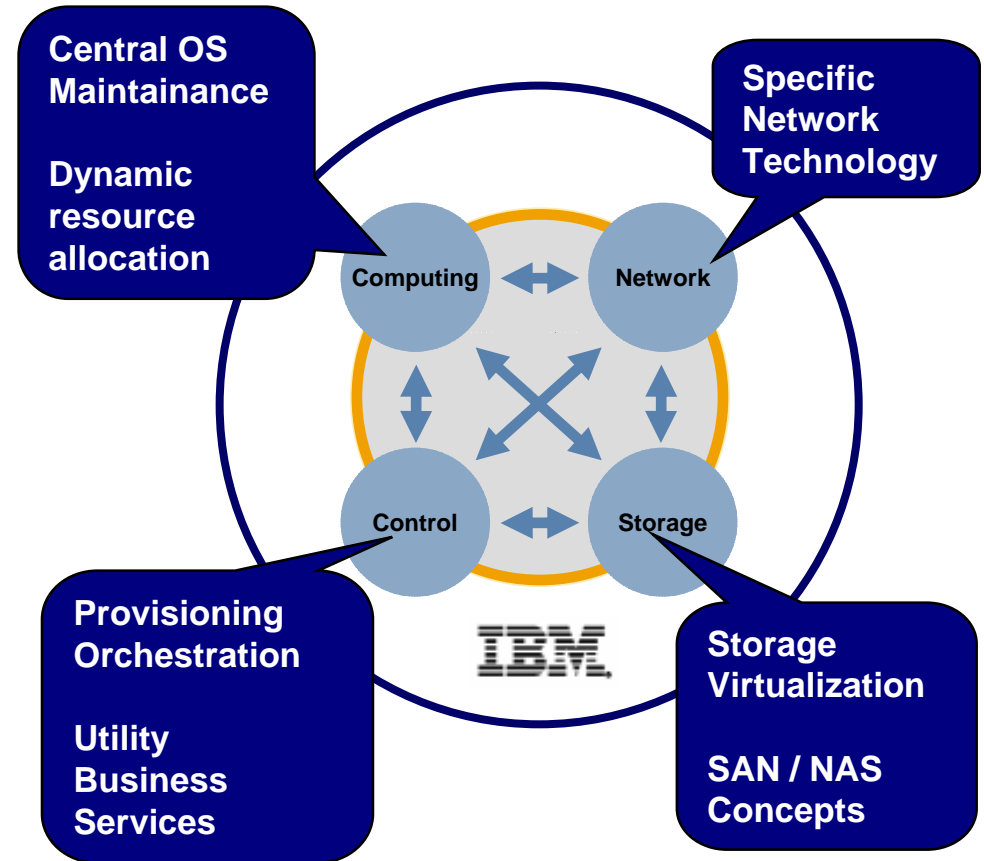
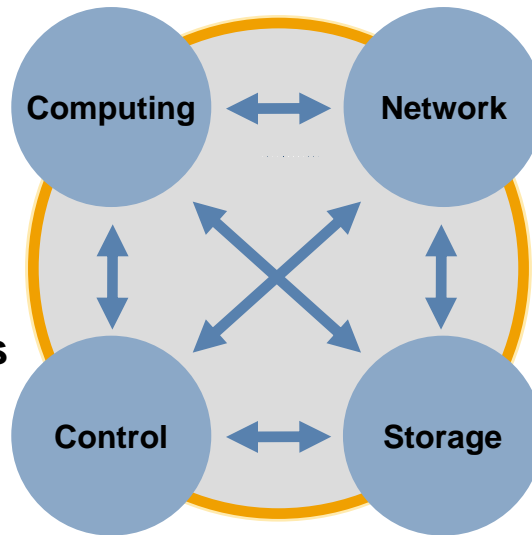
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Central Requirement for SAP Environments: Service Virtualization

- Decouple service (SAP Instance) from a specific server
- Enable a service to run on any server out of a server farm
- OS users and groups centrally managed
- All data installed on a distributed filesystem
- Virtual hostnames
 - helps to ensure that a service is always reachable by the same hostname and IP address
 - is assigned to a service and moves with the service

IBM Dynamic Infrastructure complements SAP's Adaptive computing

- High administration costs
- Limited responsiveness
- Ineffective operation



Customer's Business Issues

SAP's Adaptive Computing requires functionality

IBM complements SAP's concept through technology solutions

Goal: „Be able to start any service on any server at any time ”

Key Features of IBM @server Complementing SAP's Adaptive Computing

- IBM Virtualization Engine™ systems technologies
- Micro-Partitioning™ technology
Optimize processing power
- Virtualized resources
- Capacity on Demand
- “Pay as you grow” modular SMP architecture
- Multiple operating systems can run simultaneously in logical partitioning
- Security features
- Mainframe reliability features



IBM and SAP Share a Common Vision...

- **SAP** - Treat a business application like an application service
- **IBM** - Optimize IT infrastructure through virtualization and automation

- **Technology** - Shared services and service virtualization
- **Add-on** - Automated, policy-based end-to-end management of resources and metering/billing
- **Customer Benefit** - Capacity-on-demand capabilities for SAP business-critical applications

- **Common Value Proposition**
 - Reduce cost of operation
 - Harmonization of IT-Landscape
 - Flexibility and Scalability

➔ Can Reduce TCO

IBM Dynamic Infrastructure – Roadmap to TCO reduction

IBM Dynamic Infrastructure Enterprise Edition for mySAP™ Business Suite **V1.0 – January 2005**

Implements and Complements SAP's Adaptive Computing Concept

Automation of standard provisioning tasks (add/remove application/database servers)

Dynamic Provisioning and Orchestration complement the SAP Adaptive Computing Concept

Delivered as *IBM Dynamic Infrastructure Enterprise Edition* product

ITS provides design and delivery services

Available as shrink-wrap soft-bundles (including HW,SW and Services)

IBM Dynamic Infrastructure Enterprise Edition for mySAP™ Business Suite **V2.0***

Exploitation of LPAR resizing

Adds System Cloning for SAP Systems

Adds SAP ACC Integration

Extends platform coverage

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Summary

IBM Dynamic Infrastructure for mySAP Business Suite

- ✓ **Provides automated, policy-based, end-to-end management of resources, performance, availability, security and metering/billing across heterogeneous systems**
- ✓ **IT resources are pooled, virtualized, and allocated dynamically to satisfy changing business needs**
- ✓ **Customers can potentially lower their TCO and invest in innovation**

Where to Get More Information ?

- **IBM/SAP Portal**

- <http://w3.ncs.ibm.com/sap>

- **IBM Dynamic Infrastructure Sales Guide**

- <http://ncs.ibm.com/cspaper.nsf/HTitle/OBTOS-63CKNX?OpenDocument&Area=SAP>

- **Contact**

- isicc@de.ibm.com

End Of Presentation

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