

# Strategic Considerations for SAP Users

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# Agenda

- **Application Strategies and Innovation**
- **What is SOA?**
- **How can SOA be leveraged to the customer's advantage?**
- **What are the risks involved?**
- **SAP's motivation and strategies pursued with SOA**
- **Strengths and weaknesses of SAP's NetWeaver**
- **What determines the right strategy?**

# Common Myths and Deceptions

ชื่อวาน พะตะปะ

สรรพคุณ กันคุณไสย ป้องกันภูติผีปีศาจ

- **Switching to an integrated apps suite eliminates application issues**
- **Integrated apps will be deployed everywhere with all their functions**
- **Integrated apps vendors adopt new technology just in time**
- **It is easy and cheap to constantly upgrade integrated apps**
- **Homogeneous platforms can be implemented durably**
- **Application strategy and architecture can be safely once and for all times outsourced to (one single) (apps) vendor(s).**

## A different look

- **Example: city planning**
- **No chance to upgrade technology across the board**
- **Planning horizon: decades to centuries**
- **Optimum not feasible – criteria change (post war: quick reconstruction, housing, now: ecology, preservation of style, traffic; tomorrow: address the elderly, revive deserted cities, avoid boredom and crime...)**
- **Architectural paradigm: evolution, “urbanisation”, fusion (recitals from many sources, modest structural changes, leveraging past investments, strong focus on maintenance and increasing labor and energy costs, understanding long-term impacts)**

# SOA Requirements (or promises/hype?)

- **Leveraging of existing solutions** !
- Usage of common “standard” infrastructure
- Lower costs
- Higher agility as base for faster adaptation (go to market, process improvements)
- Lower risk
- Process oriented architecture
- Base for NBT (GRID-computing, on demand/software as a service...)

## Infrastructure and Applications

Have a different lifecycle

Infrastructure must link diverse applications

Infrastructure must be more robust, more scalable and more “technology elastic”

# Web Services, SOA, ESA – What is it?

- **Web Services and the associated standards define the basics of an infrastructure**
- **However, in contrast to the name, they do not automatically form an interconnect of SERVICES. It is up to the programmer to assure a suitable program structure**
- **SOA helps with additional constructs and methods to structure services**
- **E-SOA adds the notion of business objects and integration repositories. E-SOA is aimed at building an SOA in an ERP environment.**
- **E-SOA is also the base for migrating SAP's own applications into an SOA PRODUCTIVELY. Hence, it provides functions vital for this task. As this part of the E-SOA objectives is proprietary, E-SOA itself is and will be proprietary.**

# Is E-SOA more than just a transitory step?

- **Web Services evolve around a broad standards movement. The idea is:**
  - **If it works for everybody (like a phone), it will work for you, too**
- **E-SOA evolves around finding a solution out of SAP's architectural permafrost leveraging Web Services. The idea is:**
  - **If it works for SAP, it will work for you, too. If not, buy the rest from SAP**

# Web Services and SOA



	Subject	Name						
			BEA	IBM	Oracle	Open Source	Microsoft	SAP
Portal	Portlet	JSR-168	x	x	x	x	-	-
	Web Services Remote Portlet	WSRP	x	x	x	x	x	-
	Content Management Repository	JSR-170	x	x	x	x	-	-
Dev. Environment	Java Server Faces	JSR-127	x	x	x	x	-	-
	Service Data Objects	JSR-235	x	x	x	x	-	-
	BPEL-J	JSR-207	x	x	x	x	x	-

- Standards

- SOAP

- XML

- WSDL (Web Services Description Language)

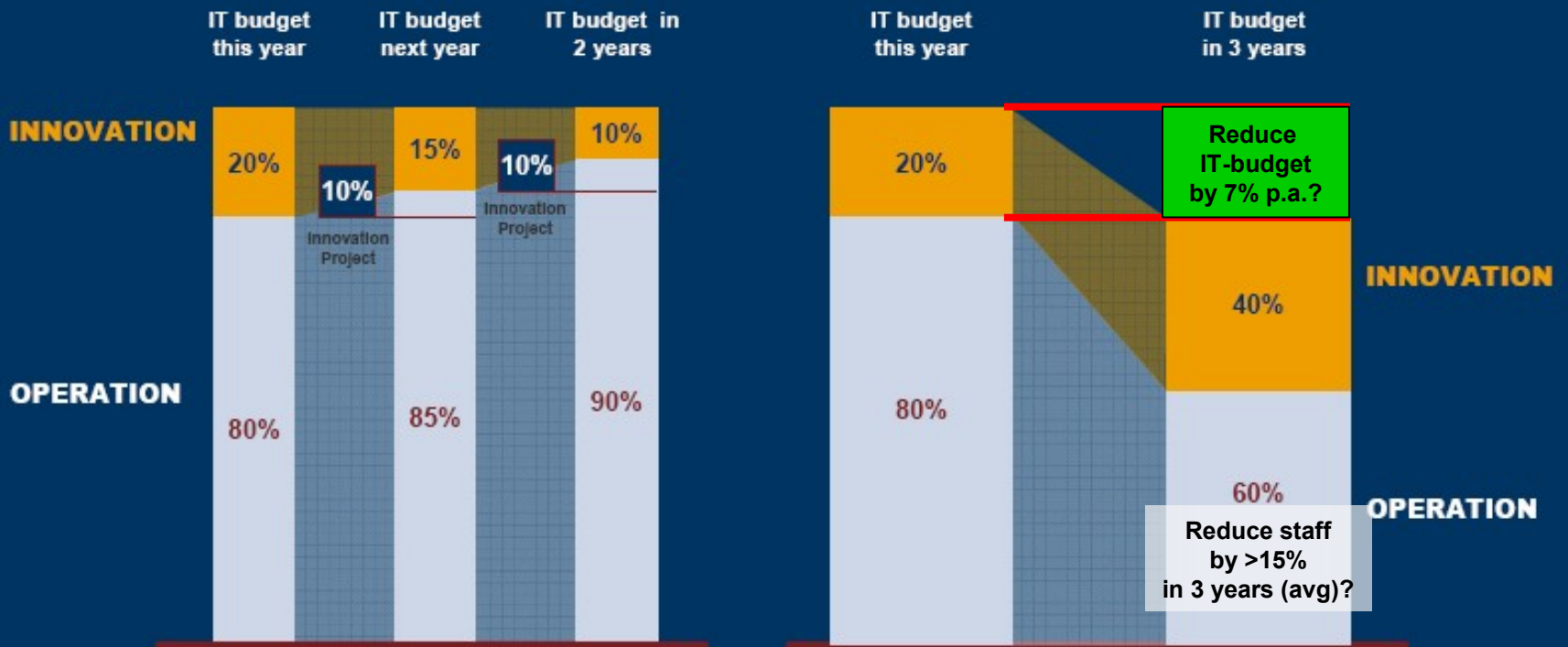
- UDDI (Universal Description, Discover, Integration)

- These standards help to create Web Services. Using them, however, does not automatically create an SOA

- Vendors need to COMPLY with standards – not only participate in the process...



# HOW TO GET TO A SUSTAINABLE COST STRUCTURE?



# Boundary Conditions for Application Strategies for SAP-Users

- **Cost of operation is eating up budget – room for innovation is limited**
- **No positive impact on bottom line – no budget**
- **No “big bang” any more**
- **Increasing demand for “non-disruptive” innovation**
- **Goal: amortization in 18-24 months – sometimes even much shorter**
- **Minimum lifecycle 5 years – 10 years expected average**

→ **“Organic” innovation**

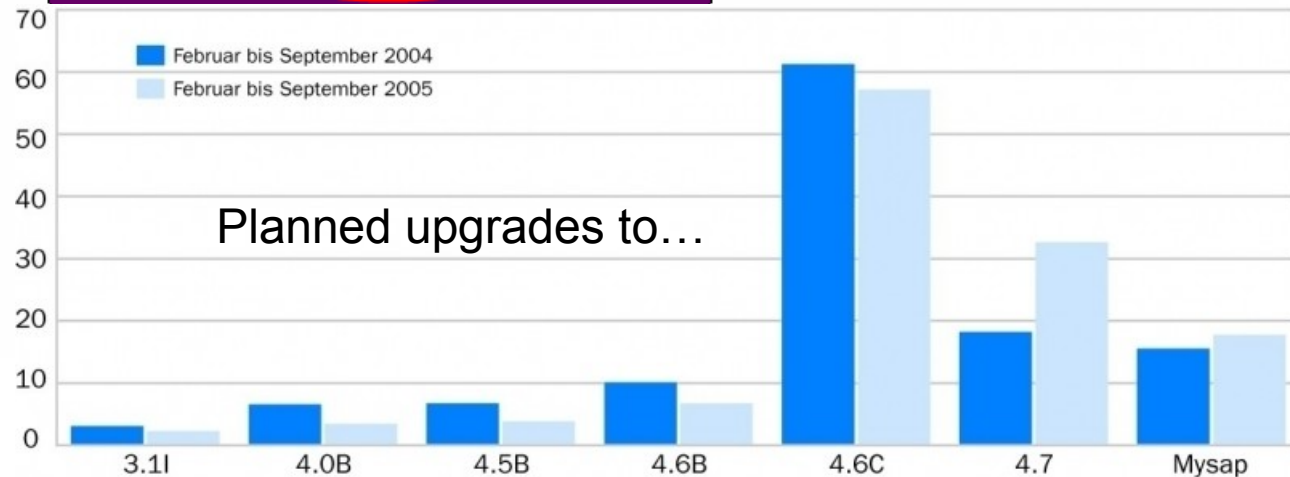
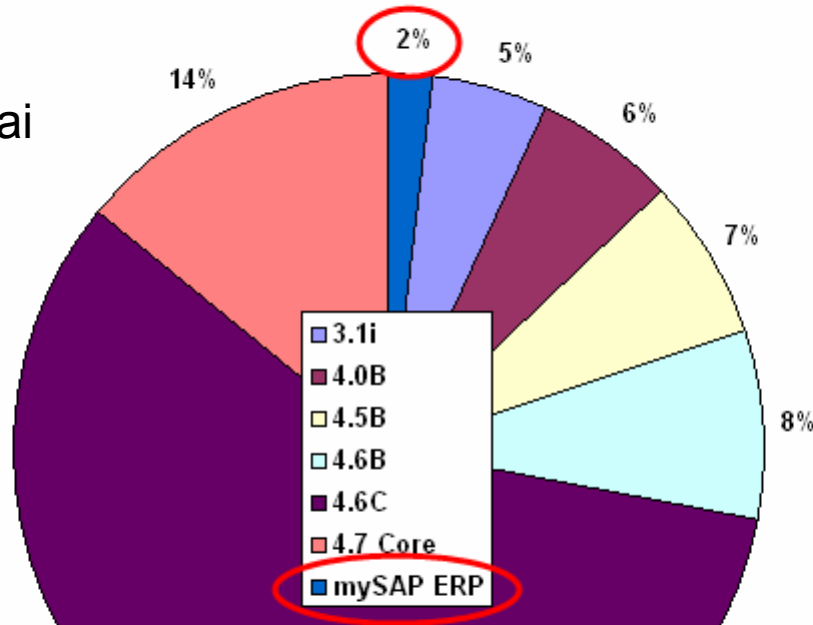
# Customers have changed their view

- **Focus on core business**
  - IT investments must be related to core business (function)
  - ROI – impact on core business
  - Keeping current with IT-technology is NOT a core business function – it is not the role of an enterprise to serve as an IT-technology show case in its own right.
- **If customers take a risk, than they prefer to see it related to their core business**
- **The trend towards IT-outsourcing has pushed application stability – changing SLAs is a sizeable effort and service providers CHARGE.**

Estimate 8/2006: no more than 15% of all SAP customers use mySAP exclusively in production.

### SAP Versions installed 5/2005

“Over 70% of all customers have mySAP-contracts” (Shai Agassi, Sapphire 2006)

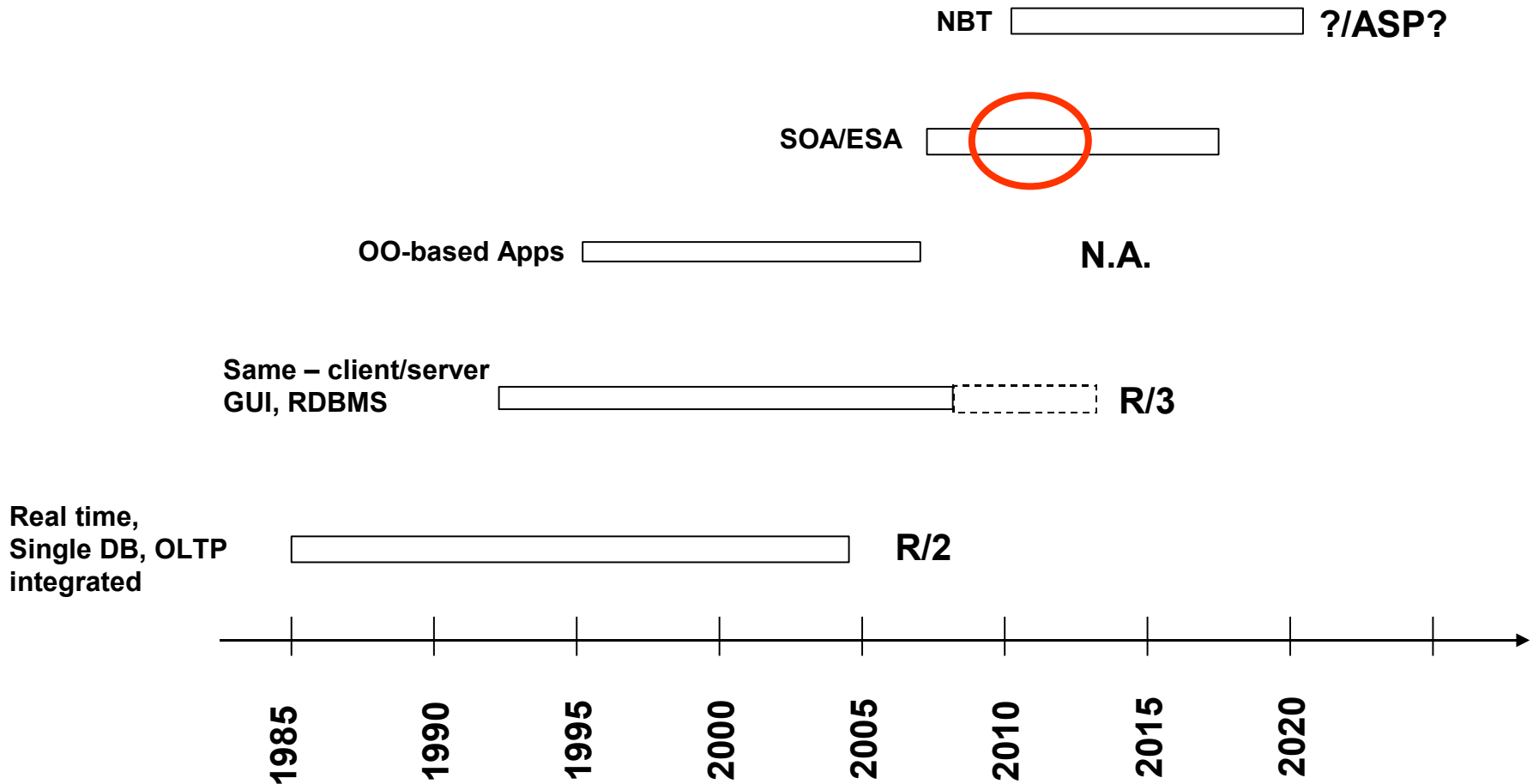


# Application vendors' nightmare

- **Customers remain on old versions**
- **Customers become technology averse**
- **Outsourcing changes balance of powers – customers are not gullible and malleable**
- **The ERP-market will shrink to a market for marginal upgrades that have to be implemented in vintage structures.**
- **The sheer volume of their own product substance infects vendors with the same application “spastics” that they tried to resolve before when they sold their apps**
- **Hence, vendors (SAP clearly leading here) are trying to break out of this calamity**
- **It is not clear, though, if they succeed – the risk is VERY high.**

2 8:19

# ESA/SOA: A Historical Perspective



# New Application Strategy SAP

- **Vehicle for BPP**
- **Kayak**
- **SAP Solutions – new pricing**
- **ESA → Enterprise SOA**

**Main purpose of SAP E-SOA:**

**SAP's primary goal is to make sure that their applications are supported and their partners are supported.**

R. "Ray" Wang

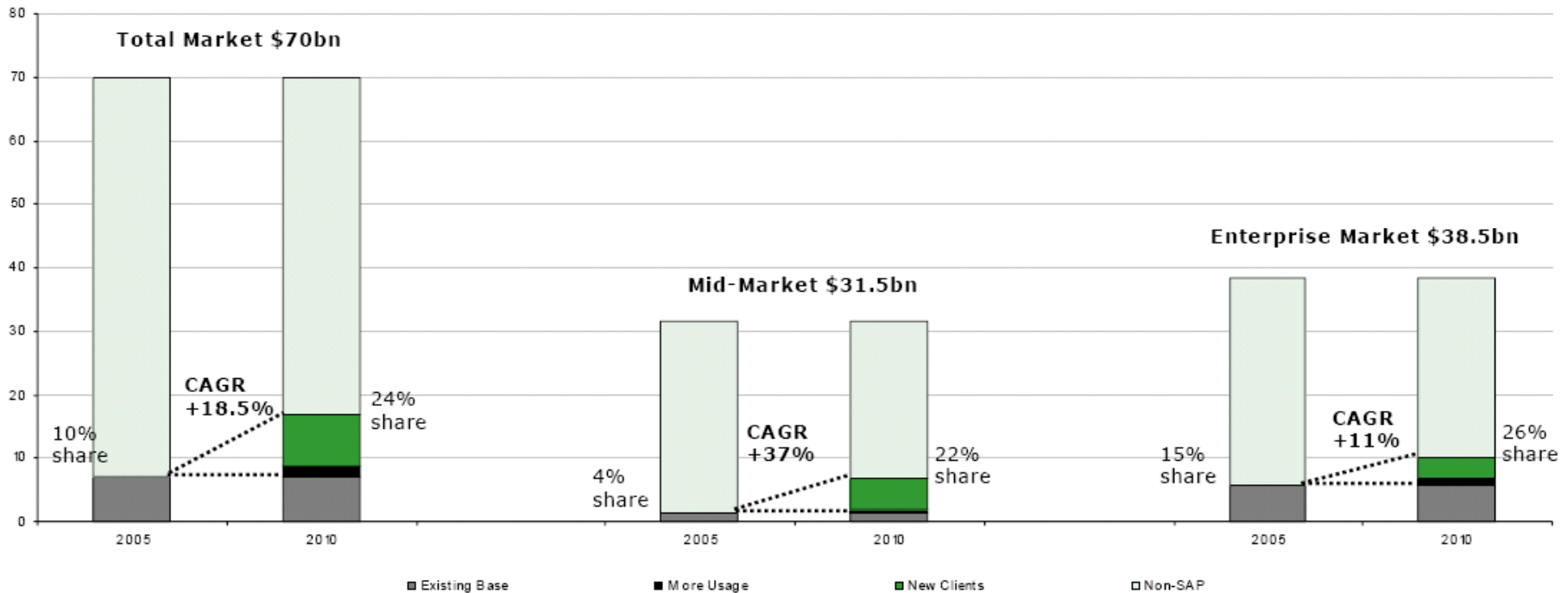
Principal Analyst, Forrester Research Inc.

([http://searchsap.techtarget.com/originalContent/0,289142,sid21\\_gci1212980,00.html](http://searchsap.techtarget.com/originalContent/0,289142,sid21_gci1212980,00.html))

✂ → **High risk, not stable**

# SAP wants to double its revenue by 2010 – but how?

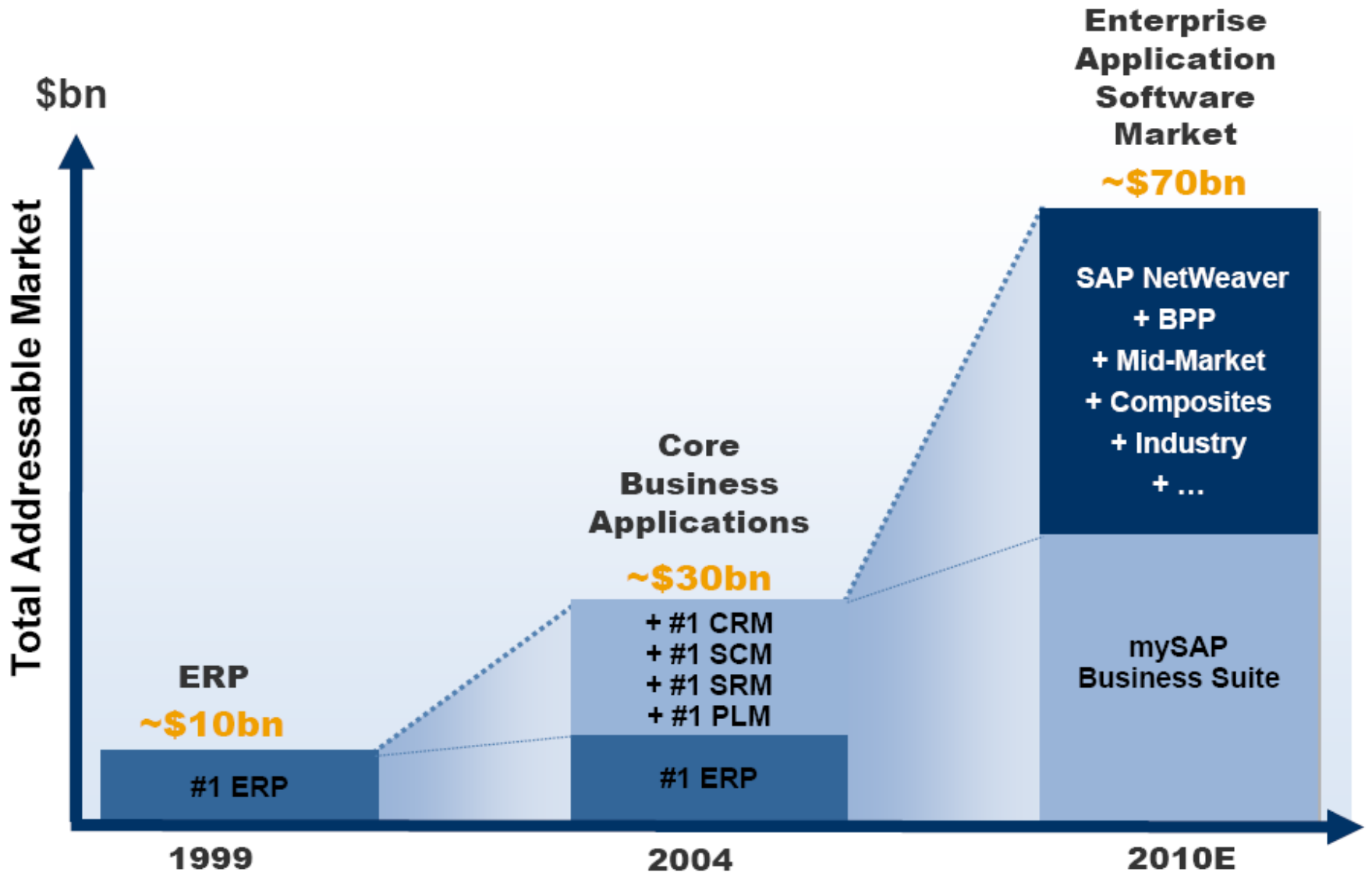
## SAP's product revenue growth – 2005 to 2010F



Source: ABN AMRO forecasts, company estimates and IDC

- Higher growth than the market
- Higher growth than most of SAP's customers
- Not enough new products to fuel growth
- Difficulties with installed base migration
- Resorting to changes in price structure and maintenance increases (by 30%!)





Source: SAP 2005

# Characteristics of Key Stack Vendors

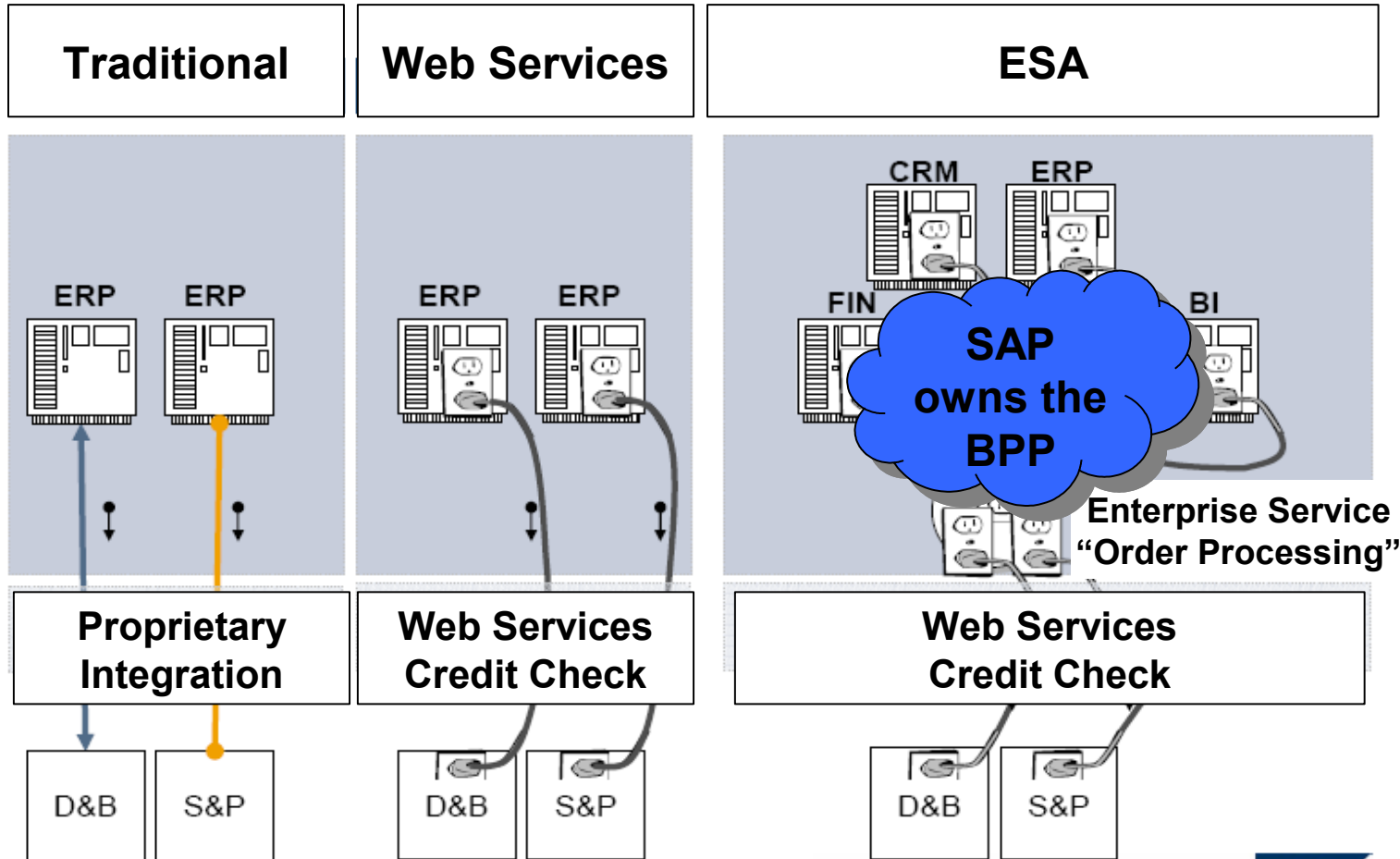
Vendor	Strong Middleware Experience in Open Market	Application Business	Stack used by Competing ISVs
IBM	+++	---	N.A.
BEA	+++	---	N.A.
MSFT	+++	+	+++
ORCL	+++	++	++
SAP	---	+++	---

# SAP: The Business Model for Middleware has changed and will continue to change



- With the acquisition of TopTier: SAP presents SAP Portals as an independent MW vendor
- Baan (as an existing TopTier customer) is the only external customer
- Today: Baan (SSA) uses WebSphere, SAP Portals is history
- No visible attempt on SAP's side to OEM NetWeaver again

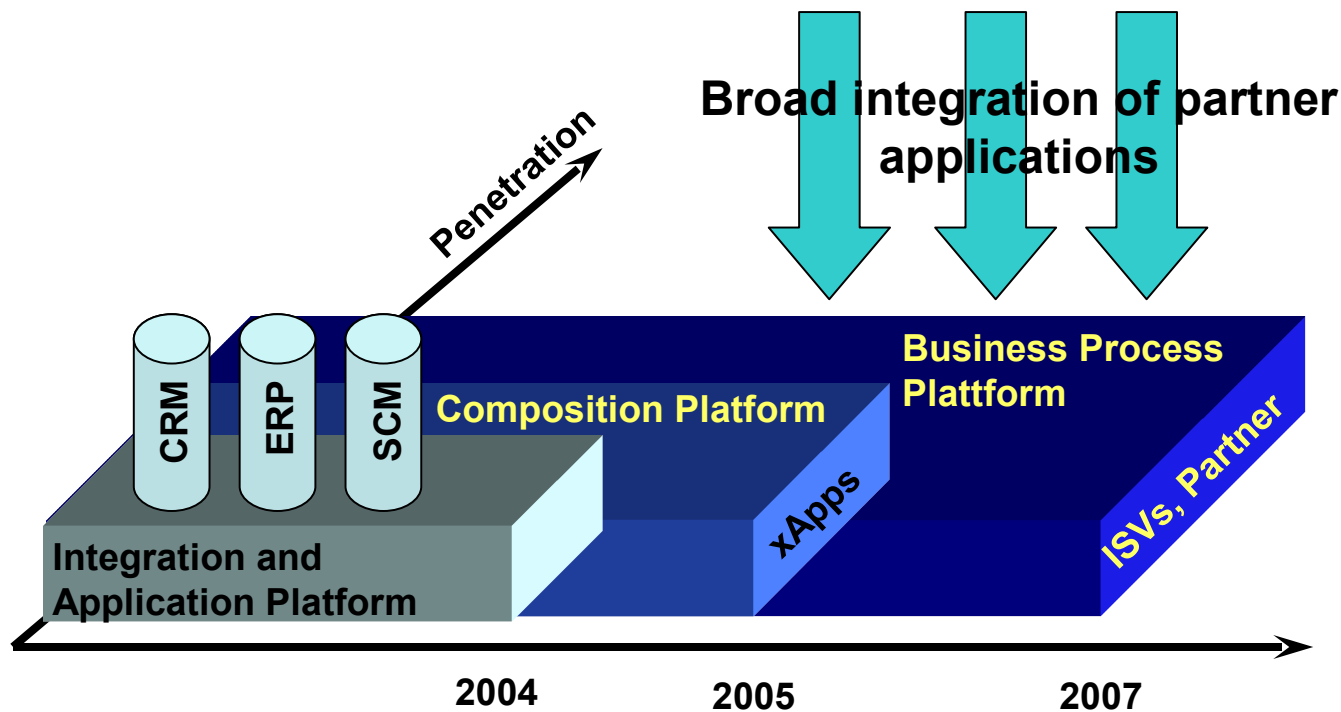
# From Point Integration to ESA – the SAP View



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THE BEST-RUN BUSINESSES RUN SAP 

# BPP – the Base for a New ISV Strategy



## BPP: The Business Application Operating System

Standard for SAP Applications

Standard for SAP custom application landscape

Standard for Application market

Source: SPI

# NetWeaver Maturity Deficits

- **High availability concepts (hot standby, failover)**
- **Load levelling**
- **Easy installation features for smaller customers**
- **Groupware**
- **Natural language support**
- **Instant messaging**

# NetWeaver Proprietary Elements

- **ABAP and its development environment**
- **iViews**
- **WebDynpro**
- **Java Development Infrastructure**
- **Business Server Pages, HTMLB for Web**

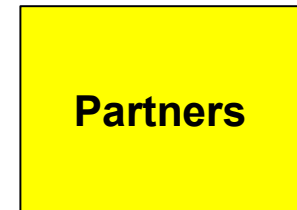
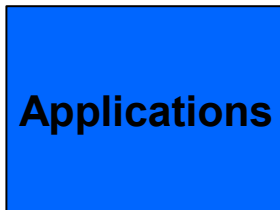
# SAP

SAP's own Applications, Partner applications Together <5000 applications

WAS first released in 2003

SAP has >9000 consultants

SAP has about 500 NetWeaver partners



# IBM

87000 WebSphere customers  
3150 active ISV solutions

WAS first released in 1998

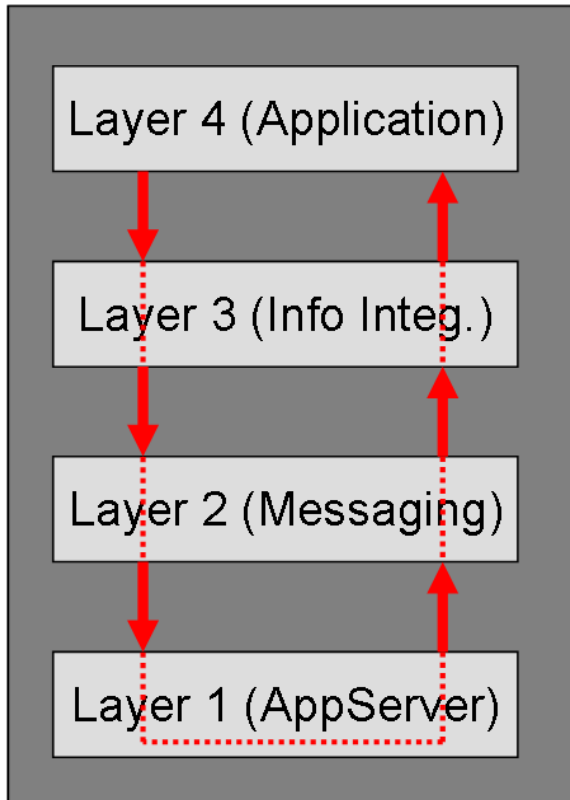
IBM Global Services has > 60000 consultants

IBM has > 4000 ISV partners

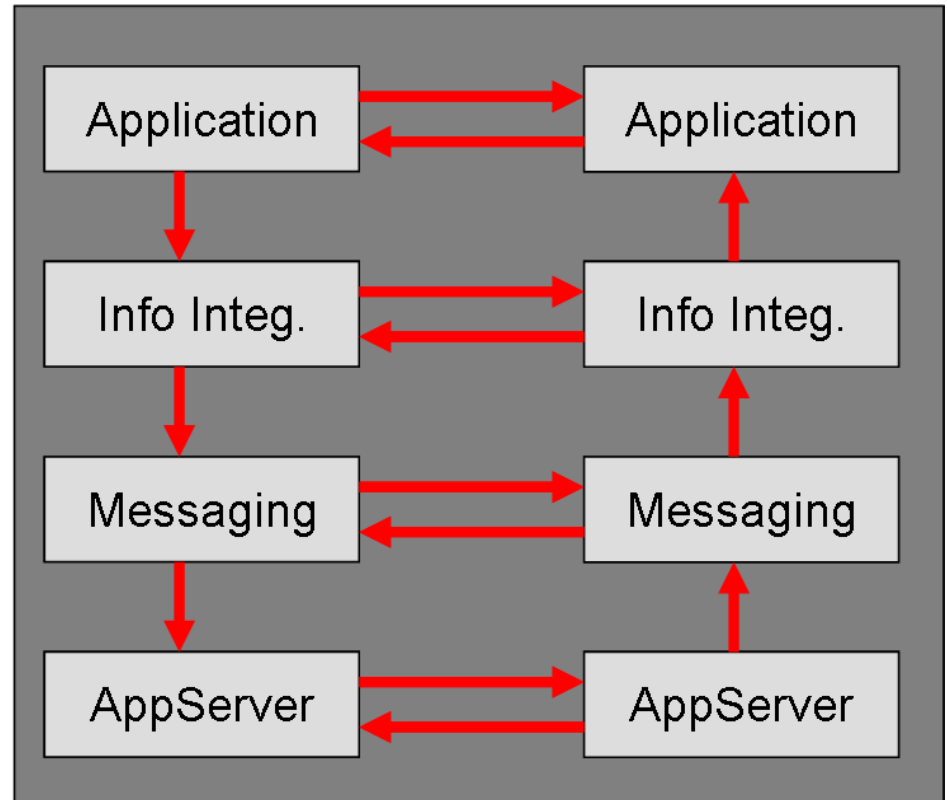
Sources: IBM: IBM and 10K SAP: SAP Annual Report 2004, p. 21 and p. 64, SDN

# Middleware Experience: The Details Matter

SAP NetWeaver:  
Strict Layering



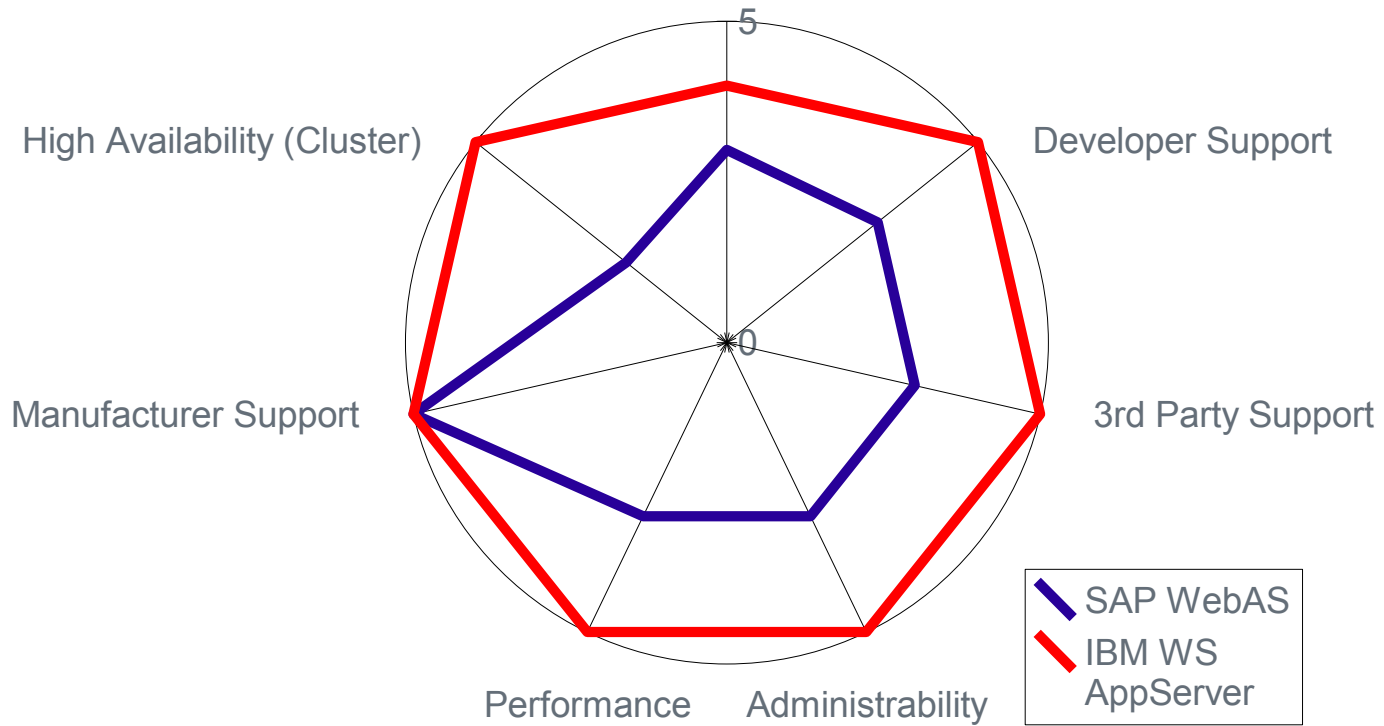
IBM WebSphere:  
Loose Coupling



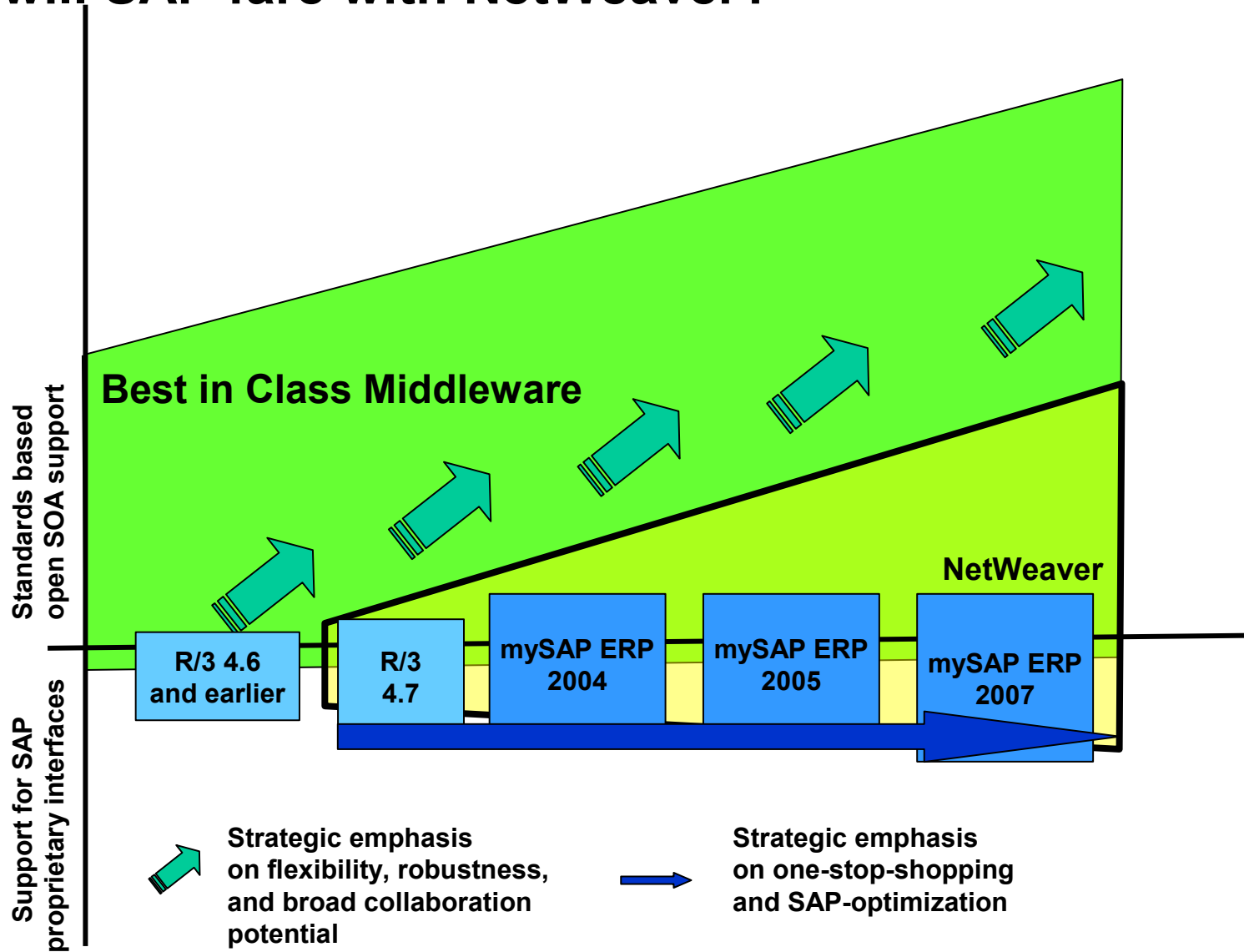


# Application Server

J2EE-Compliance



# How will SAP fare with NetWeaver?



# SOA and E-SOA – lock-in on a higher level?

- **ERP vendors like SAP want to give you just enough openness to integrate, but not to freely select**
- **Middleware specialists want to provide a neutral platform for SOA**
- **Both attempt some form of lock-in:**
  - **Middleware specialists on the level of system management and implementation methodology**
  - **Application vendors on the level of process structures, data models, and applications PLUS license models**
- **It requires careful and conscious architectural work to avoid unpleasant surprises**
- **There will be always some level of lock-in – you must keep it on an acceptable level by determining your requirements**

# Summary

- **IT has become sufficiently complex and costly to inhibit innovation. SOA can help to overcome this impediment.**
- **Innovation must have a direct impact on business**
- **IT landscapes can only evolve – no chance for revolution**
- **SOA is a key enabler to innovate selectively**
- **SOA is not an end in itself. It is not about proprietary software integration from a single vendor!**
- **Beware of lock-in, watch standards and compliance and changes in business models of vendors**
- **SOA is not plug and play. Start with a few intranet services**
- **Architecture is vital. You cannot rely on ONE application vendor for certain.**
- **There is no substitute to vendor experience**
- **Process knowledge and management on all levels is required**