The agenda



Traditional Definition of ERP – Term of 90's Maximizing ERP Where is it headed now? mySAP ERP for Example

What is ERP?







No definition



•1989

– ERP = Standard Business Software (= SAP!)



•1999

- ERP = Old \rightarrow E-Business = New!



Today

- E-Business no longer replacement but extension of ERP
- ERP = ???

Definition of ERP



- (1) ERP is commodity, a product in the form of software;
- (2) ERP is the development objective of mapping all process and data into an infrastructure,
- (3) ERP is the key element of an infrastructure delivering a solution to business

Klaus and Gable (2000)

- SAP, Oracle, PeopleSoft, JD Edwards, Greatplains are world's leading ERP
- SAP is the Market Leader

Typical IT Scenario before ERP





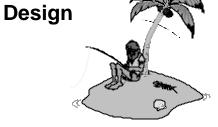












Inventory

MIR

Shop Floor execution

Production Planning









Controlling

Typical Problems



- Focus on Functions
- Applications developed over time in response to differing corporate stimuli
- Interfaced Systems (Reconciliation)
- Hardware Dependent I/T Systems
- Inconsistent, Redundant Data
- Consolidation & Managerial Control Difficult
- Process Productivity Monitoring Difficult
- Reaction to change slow

Characteristics of ERP Software



- Standard software package that needs to be customised
- Rich potential for customising, in comparison to other packages
- Application software, in differentiation to database management software, middleware, or operating systems
- Integrated database for storing both master and transactional data.
- Providing business solutions in support of core processes
- High functionality as it attempts to support a large number of business functions
- Process-oriented view cutting across functions of an enterprise, and this view is often depictured and supported by a 'reference model'

Characteristics of ERP Software



- Targeting multiple industries in various countries
- Frequent and repetitive use is the focus of functionality, and not the irregular activities of product development, management and planning
- Consistent graphical user interface across all application areas.
- Layered architecture, separating the database, the application and the presentation in different layers.
- "Open" regarding choice of software and hardware platforms, with most solutions being offered for a variety of Solaris, Windows NT or Linux.
- Complex administration is nothing entirely unique to ERP but few systems are as mission critical as these are

Business and Technical Benefits



- Automation of business transactions in the back-office. Flexibility in changing the system to cater to newer business processes.
- Coordination across business functions, making it possible to practice concepts as 'available to promise' and 'just in time inventory.
- Coordination across geographical distances, enabling managers to follow what is happening at every point of their organisation around the globe. Easier Corporate Consolidation / Managerial control
- Consolidation of terminology, making sure the same term is not used with different meanings in different systems or functions. Single definition of data.
- Consistent application logic, information and interface, creating an IT environment easier to understand and thus to work in
- Single system, creating an IT infrastructure easier to manage. (For example in conversion issues such as Y2K and the Euro currency)
- Avoiding building your own integrated systems, something involvinglarge costs and risks

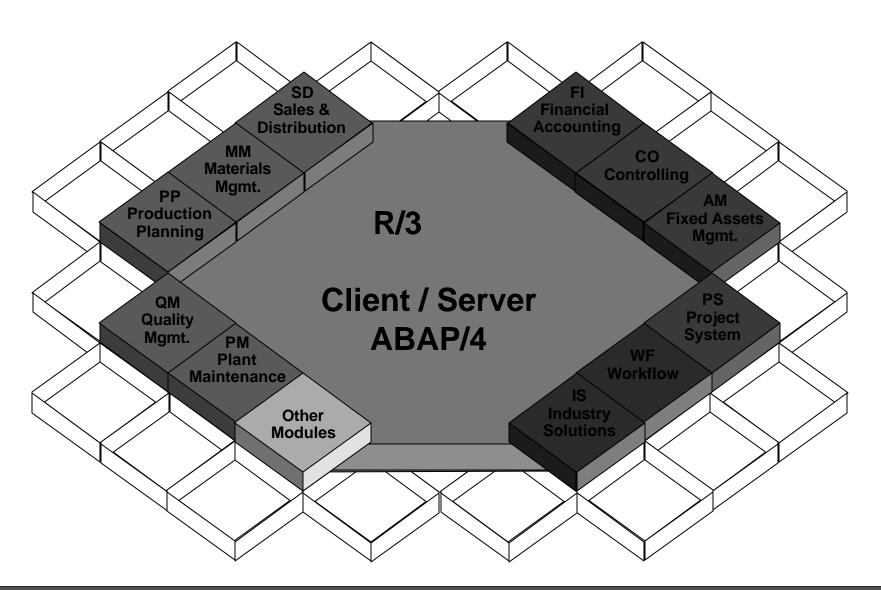
Common Reasons for Implementing ERP



- Need for common platform, with the intent to replace a myriad of legacy systems and some times with the catalyst being to avoid specific issues (Y2K for example)
- Process improvement expected from the implementation.
- Data visibility that could be used to improve operating decisions.
- Operation cost reductions, as evident by the metrics used for measuring the success of the implementation.
- Increased customer responsiveness in operations.
- Improved strategic decision making
- Personal Improvement

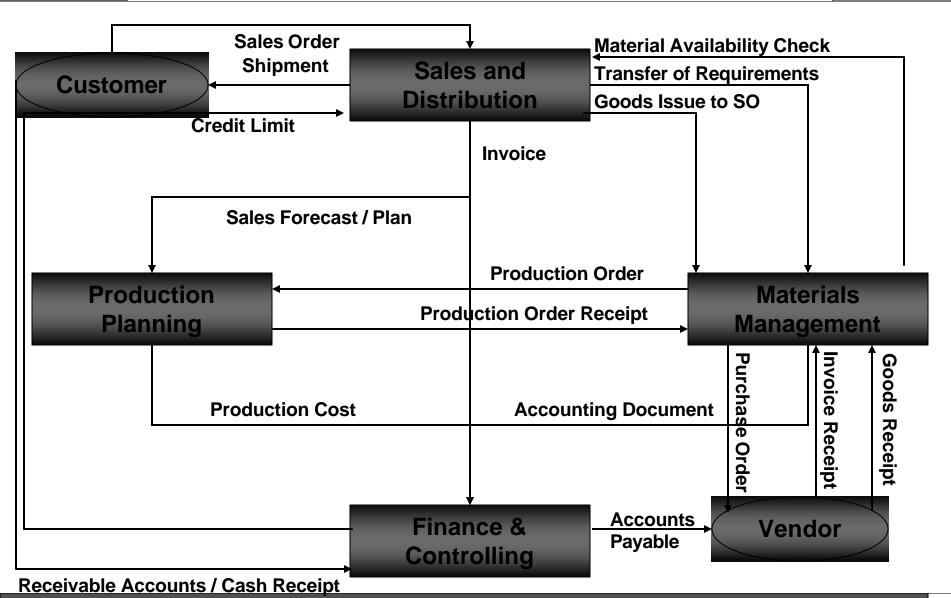
SAP R/3 – Defined the ERP Market – Modular and Integrated





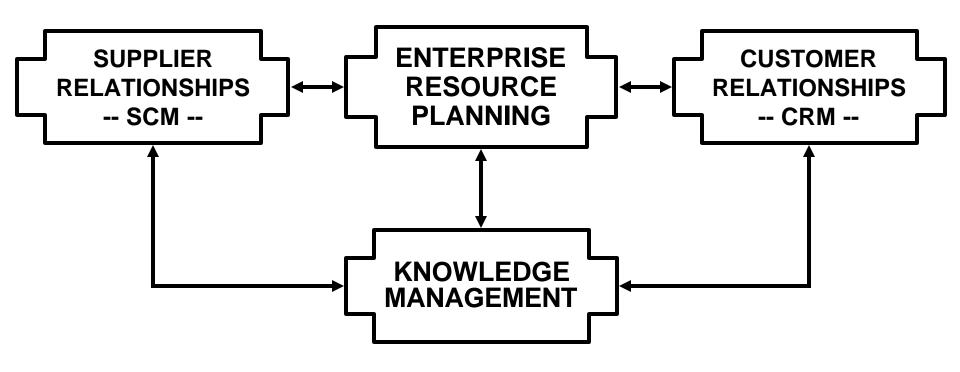
Modular and Integration - An Example





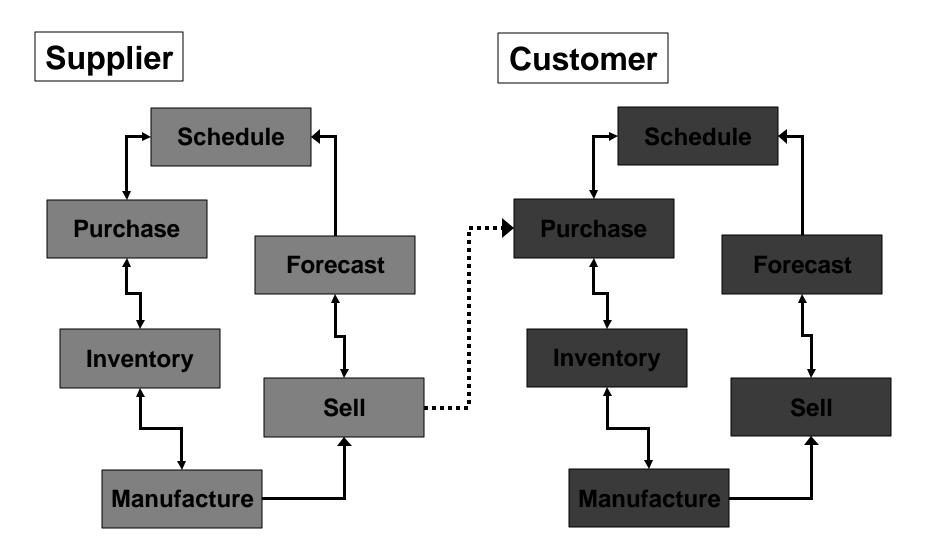
Integration beyond ERP





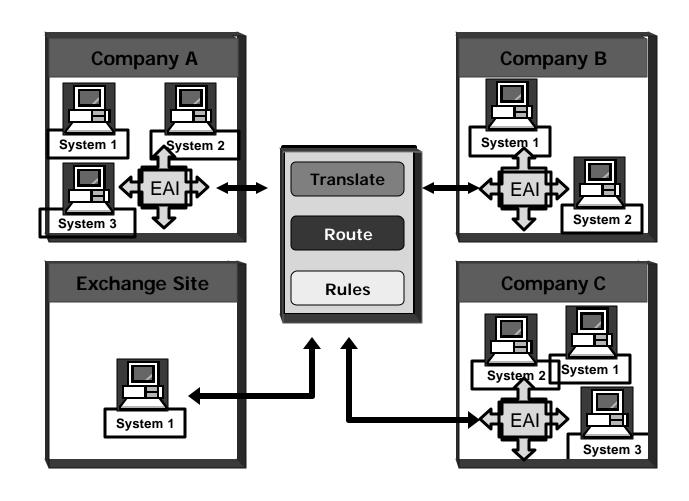
Across Organizations





Enterprise Application Integration



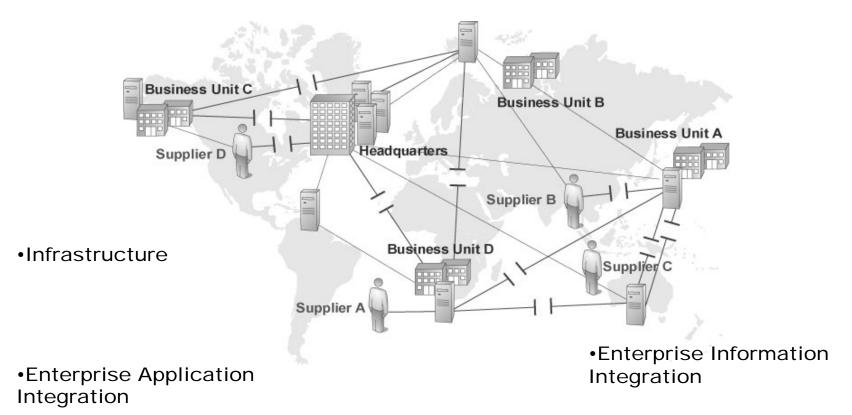


Integration Challenges



Business data

End-User Integration



Integrating Business Partners

What is ERP Today?



Press

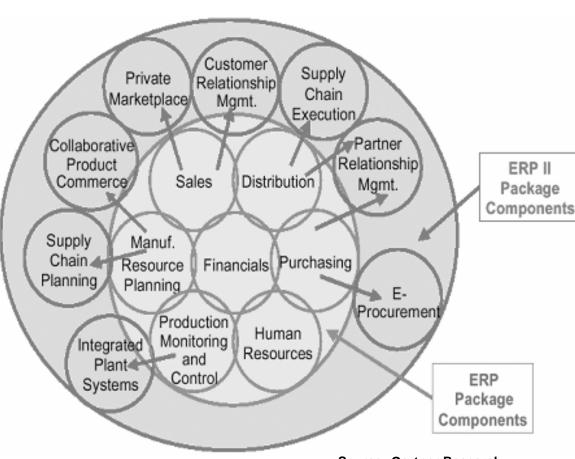
'Backoffice admin & operations applications common to most companies'

Analysts

- 'ERP = HR + Finance +Corporate Functions +Blue Collar Operations'

Competitor

- 'HR + Finance +Purchasing + Distribution+ Portal + Technology'

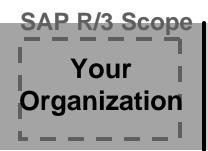


Source: Gartner Research

Footprint of mySAP ERP vs. SAP R/3



Your
Suppliers &
Partners



Your Customers

Scope of mySAP ERP vs. SAP R/3



Extension of Adaptable End-to-End Business Processes

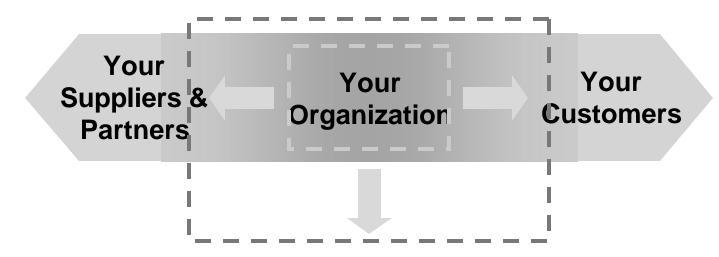


ADAPTABLE business processes

Scope of mySAP ERP vs. SAP R/3



Evolved Technology Platform



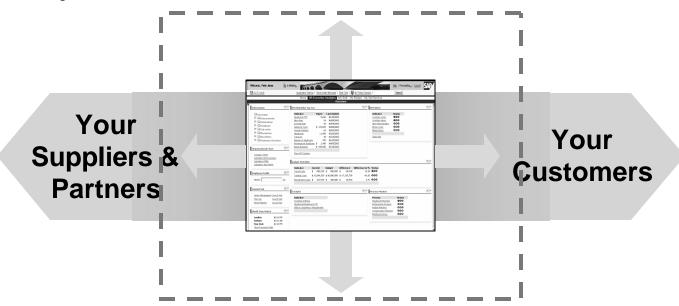
ADAPTABLE business processes supported by FLEXIBLE platform

Scope of mySAP ERP vs. SAP R/3



New Role-based Portal / User Interface

Improved PRODUCTIVITY and increased INSIGHT

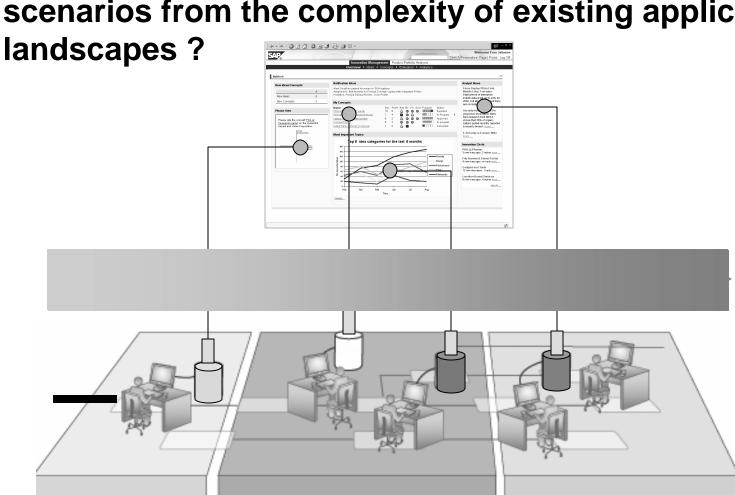


ADAPTABLE business processes supported by FLEXIBLE platform

What If?



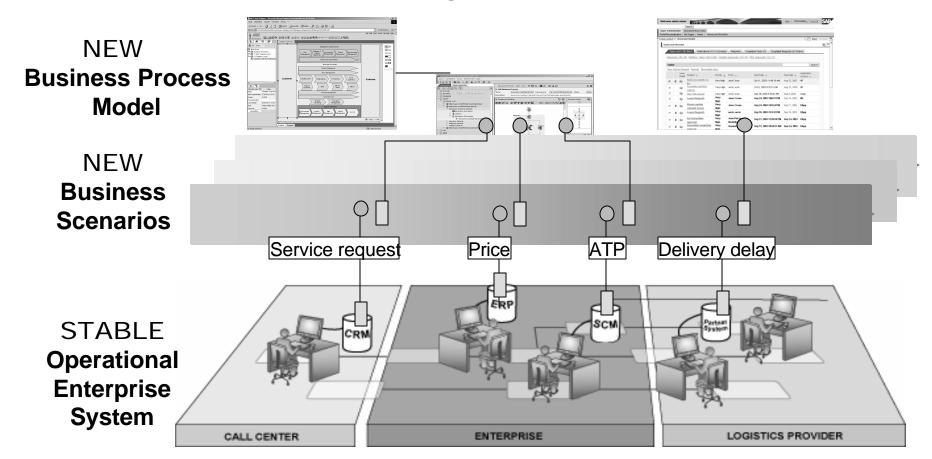
•... we could "extract" the execution of business scenarios from the complexity of existing application



Service-Oriented Architectures Enhance Enterprise Agility

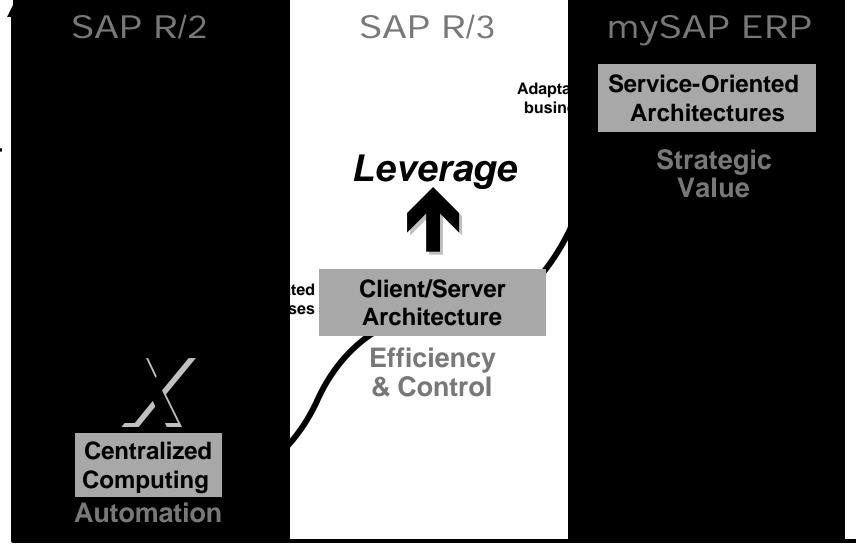


 Model-driven processes based on abstract services delivered through open standards



Next Generation ERP Solution – mySAP ERP





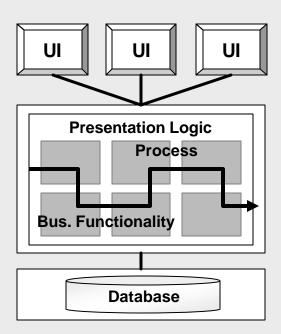
Advancement in Technology

What's New?

From 3-tier C/S to Enterprise Services

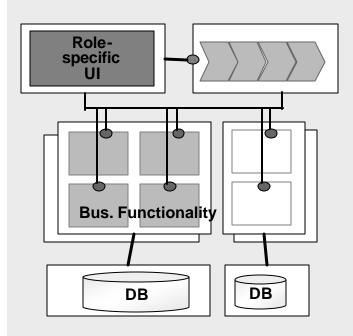


3-tier Client/Server Architecture



- Expose business functionality thru a given UI
- Low level APIs exist, but hard to use

Enterprise Services Architecture

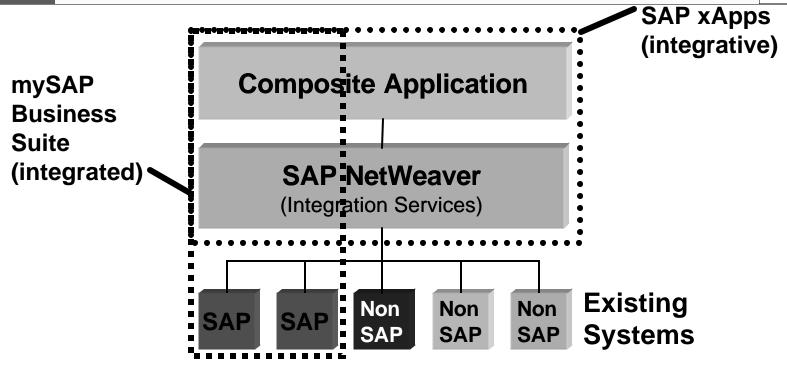


- Role-based UIs built on Enterprise Services
- Process automation within and across organizational boundaries built on Enterprise Services

Enterprise Services Architecture





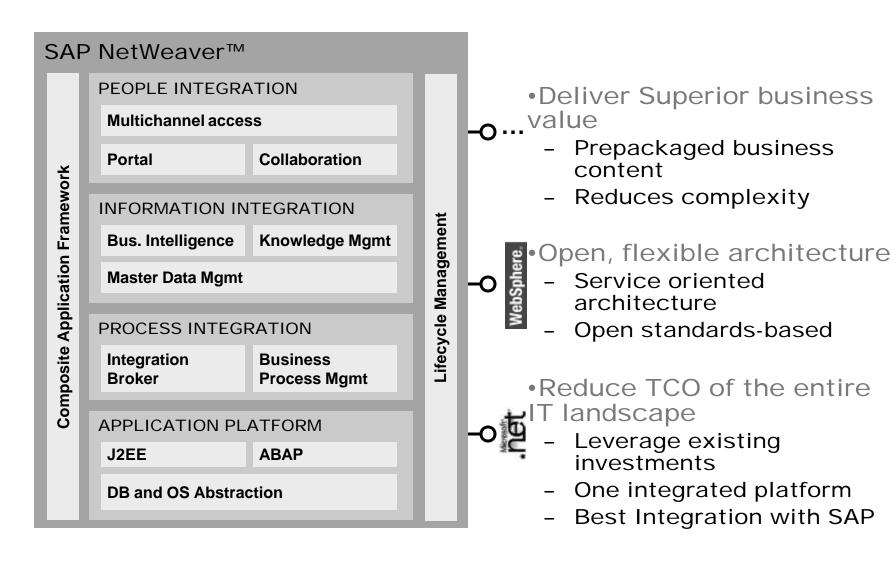


Terminology

- xApps are Packaged Composite Applications (PCAs)
- mySAP consists of Composite Apps and Engines (R/3, APO, ...)
- Packaged Solutions combine specific CAs and Engines and Consulting Services into industry specific solutions to given business pain points.

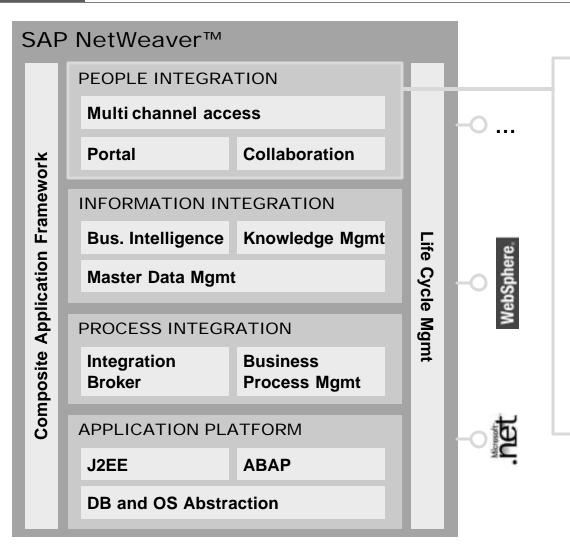
SAP NetWeaver™





People Integration – SAP Enterprise Portal



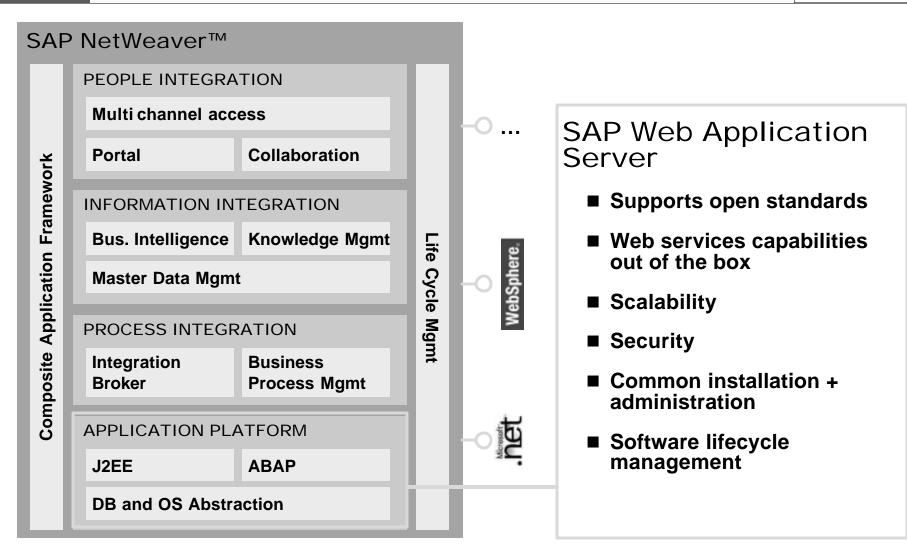


Portal Infrastructure

- Web-based, role-based, secure access
- Integrating any kind of structured information
- Sophisticated navigation possibilities
- Wide platform support, wide language support
- **■** Built on open standards

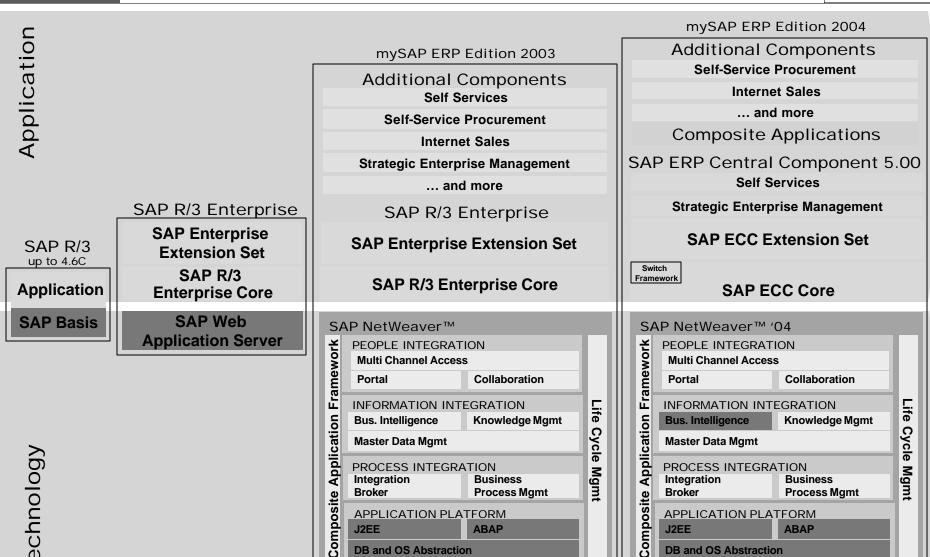
Application Platform – SAP Web Application Server





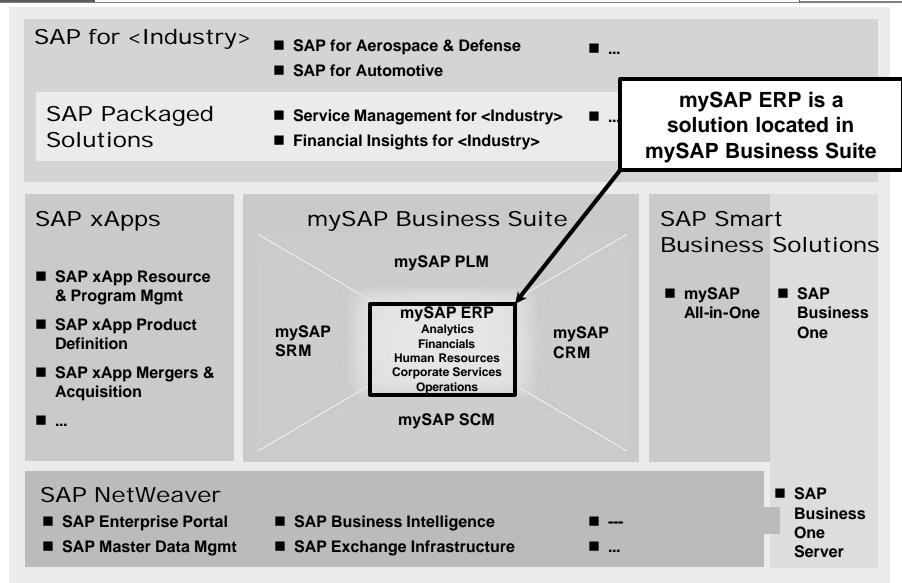
Architecture of mySAP ERP





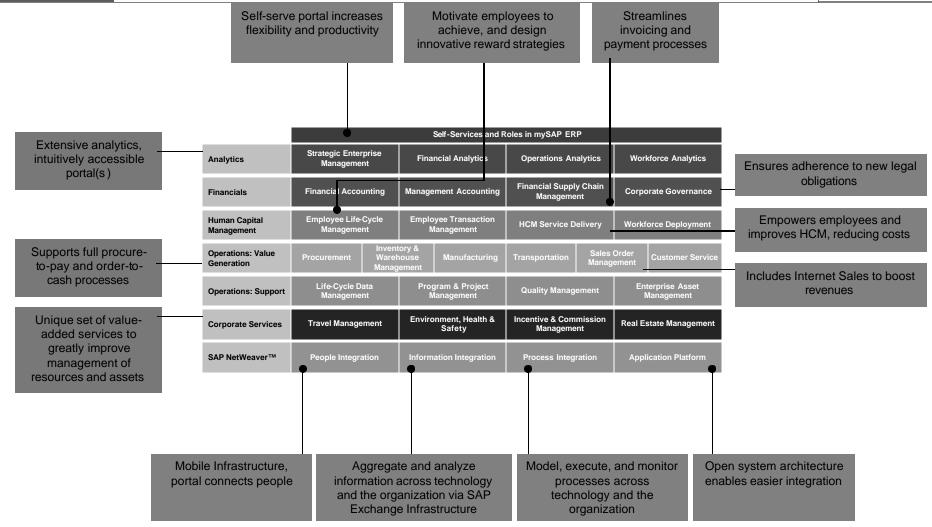
Positioning Within SAP's Product Portfolio





Added Functionality

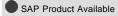






Analytics

Self Services	Strategic Enterprise Management	Financial Analytics	Operations Analytics	Workforce Analytics
 Manager Self-Service (S61, S60, S22) Employee Self-Service (S61) 	 Legal & Management Consolidation (S60, S22) Balanced Scorecard (S60, S22) Risk Management (S60, S22) Management Cockpit (S60, S22) Strategic Planning (S60, S22) Value-Based Management (S60, S22) Financial Statement Planning (S60, S22) Investment Planning (S60, S22) Stakeholder Relationship Management (S60, S22) 	 Financial & Management Reporting (S22, S60) Financial Planning, Budgeting & Forecasting (S22, S60) Profitability Management (S22, S60) Product & Service Cost Management (S22, S60) Overhead Cost Management & ABC/M (S22, S60) Payment Behavior Analytics (S22, S60) Working Capital and Cash Flow Management (S60, S22) 	 Procurement Analytics (S64) Inventory & Warehouse Management Analytics (S64) Manufacturing Analytics (S64) Transportation Analytics (S64) Sales Analytics (S59) Customer Service Analytics (S59) Program & Project Management Analytics (S62) Quality Management Analytics (S62) Enterprise Asset Management Analytics (S62) 	Strategic Alignment (S61)Reporting & Benchmarking (S61)



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Collaborative Business Map Available

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For more information see: http://www.sap.com



_			WIPRO Applying Thought		
Financials					
Financial Accounting	Management Accounting	Financial Supply Chain Management	Corporate Governance		
 General Ledger (S60) Accounts Receivable (S60) Accounts Payable (S60) Fixed Assets Accounting (S60) Bank Accounting (S60) Cash Journal Accounting (S60) Inventory Accounting (S60) Tax Accounting (S60) Accrual Accounting (S60) Fast Close (S60) Financial Statements (S60) 	 Profit Center Accounting (S60) Cost Center & Internal Order Accounting (S60) Project Accounting (S60) Investment Management (S60) Product Cost Accounting (S60) Profitability Accounting (S60) Revenue & Cost Planning (S60) Transfer Pricing (S60) 	 Credit Management (S22, S8) Electronic Presentment & Payment (S22, S8, B10, B23, S60) Collections Management (S22, S8) Dispute Management (S22, S8) In-house Cash (S22, S8) Cash & Liquidity Management (S22, S8) Treasury & Risk Management (S22, S8) 	 Audit Information System (S60) Management of Internal Controls (S60, S55) Business Risk Management (S60) Whistle Blower Complaints (S60) Transparency for Basel II (S60) 		
Parallel Valuation (S60)					



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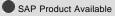
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Human Capital Management

Employee Life-Cycle Management	Employee Transaction Management	HCM Service Delivery	Workforce Deployment
 Recruiting & Talent Management (S5) Enterprise Learning (S24, S66) Performance Management (S61) Compensation Management (S61) Workforce Deployment (S14, S61, 	 HR Administration (S61) Organizational Management (S61) Expatriate Management (S61) Benefits Management (S61) Time & Attendance (S61) 	 Manager Self-Services (S61, S60) Employee Self-Services (S60, S61, S53) Interaction Center (S61, S14) Alternate Delivery Channels (S61, 	 Project Resource Planning (S14, S61) Resource & Program Management (S23, S70) Call Center Staffing (S59, S21) Retail Scheduling (S59, S21)
S23, S70, S59, S21)	Global Payroll (S61, S52)	B26)	3 (,



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Operations: Value Generation

Procurement ©	Inventory & Warehouse Management	Manufacturing	Transportation	Sales Order Management	Customer Service
 Self-Service Requisitioning (S63) Purchase Order Processing (S64) Receipt Confirmation (S64) Invoice Verification (S64) 	 Inbound Processing (S64) Outbound Processing (S64) Cross Docking (S64) Warehousing & Storage (S64) Physical Inventory (S64) 	 Manufacturing Planning (S64) Manufacturing Execution (S64) 	 Transportation Planning (S64) Transportation Execution (S64) Freight Costing (S64) Foreign Trade & Legal Services (S64) 	 Internet Sales (S59) Field Sales (S33, S59) Quotation and Order Management (S59) Contract Management (S59) Billing (S59) 	 Installation & Configuration Management (S59) Service Contract & Entitlement Management (S59) Planned Services (S59) Service Requests and Order Management (S59) Field Service (S62, S33) Warranty Management (S59)



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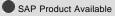
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(S62)



Operations: Support

Life-Cycle Data Management	Program & Project Management	Quality Management	Enterprise Asset Management
Document Management (S62)	Project Planning (S62)	Quality Engineering (S62)	Technical Assets Management (S62)
Product Structure Management (S62)	Project Execution (S62)	Quality Assurance / Control (S62)	Preventative & Predictive Maintenance
Recipe Management (S62)	Interfaces (S62)	Quality Improvement (S62)	(S62)
Integration (S62)	Program Management (S62)		Maintenance Execution (S62)
Change & Configuration Management	_		Work Clearance Management (S62,
(S62)	Collaborative Project Management		S45)



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Corporate Services

Analytics (S60, S61, S22)

Travel Management	Environment, Health & Safety	Incentive & Commission Management	Real Estate Management
Travel Request & Pre-Trip approval	Basic Data & Tools (S38)	Design Incentive Compensation Plans	Property Acquisition and Disposal
(S60, S61, S22)	Product Safety (S38)	(\$9)	(S62, S60, S201)
Travel Planning - Online Booking (S60, S61, S22)	Hazardous Substance Management (S38)	 Calculate Variable Compensation - Direct Sales Commissions & Incentive 	Property Portfolio (S201, S60, S62, B9, P14, P36)
Travel Expense Management (S60,	Dangerous Goods Management (S38)	Compensation (S9)	Commercial Management (S201, S60,
2 S61, P78, S22)	Waste Management (S38)	Effectiveness Analysis (S9)	S64)
Mobile Self-Service - Anytime &	Industrial Hygiene & Safety (S38, S23)	Organizational Management (S9)	Technical Management (S201, S62,
Anywhere (S60, S61, P6, S22)			S64, S63, S14, V42, P75, P14)
Global Travel Policy Compliance (S60,	Occupational Health (S38, S23, S62)		Controlling & Reporting (S201, S60,
S61, S22)	Emissions Management (S67)		B12)



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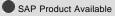
Sxx, Vxx, Bxx Pxx SAP Product & Service Partner Product

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SAP NetWeaver™

People Integration	Information Integration	Process Integration	Application Platform
 Portal Access (B20) Collaboration (B20) Portal Content (B20) Multi Channel Access (B20, B26, B28, B40) 	 Business Intelligence (B12, S14, S51, S34, S22, S23, S47, B20) Knowledge Management (B20, S65, B24) Master Data Management (B25) Content Organization (B12, B20, P18) 	 Business-to-Business (B21) Business Process Management (B28, B7, B21, B20) Connectivity (B21) Integration Content (B21) Message Handling (B21) Infrastructure (B21, B28) 	 Productive Development (B28, B11, B30, B33, B8, B32) Openness and Interoperability (B28) Reliable Operation (B28, B17) Security (B28, B8) Platform Architecture (B28, B20, B26, B33) Life Cycle Management (B4, B8, B30, B33, V152, B32) Composite Application Framework (B10, B20, B28)



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