

# Business Integration in the Manufacturing Industry

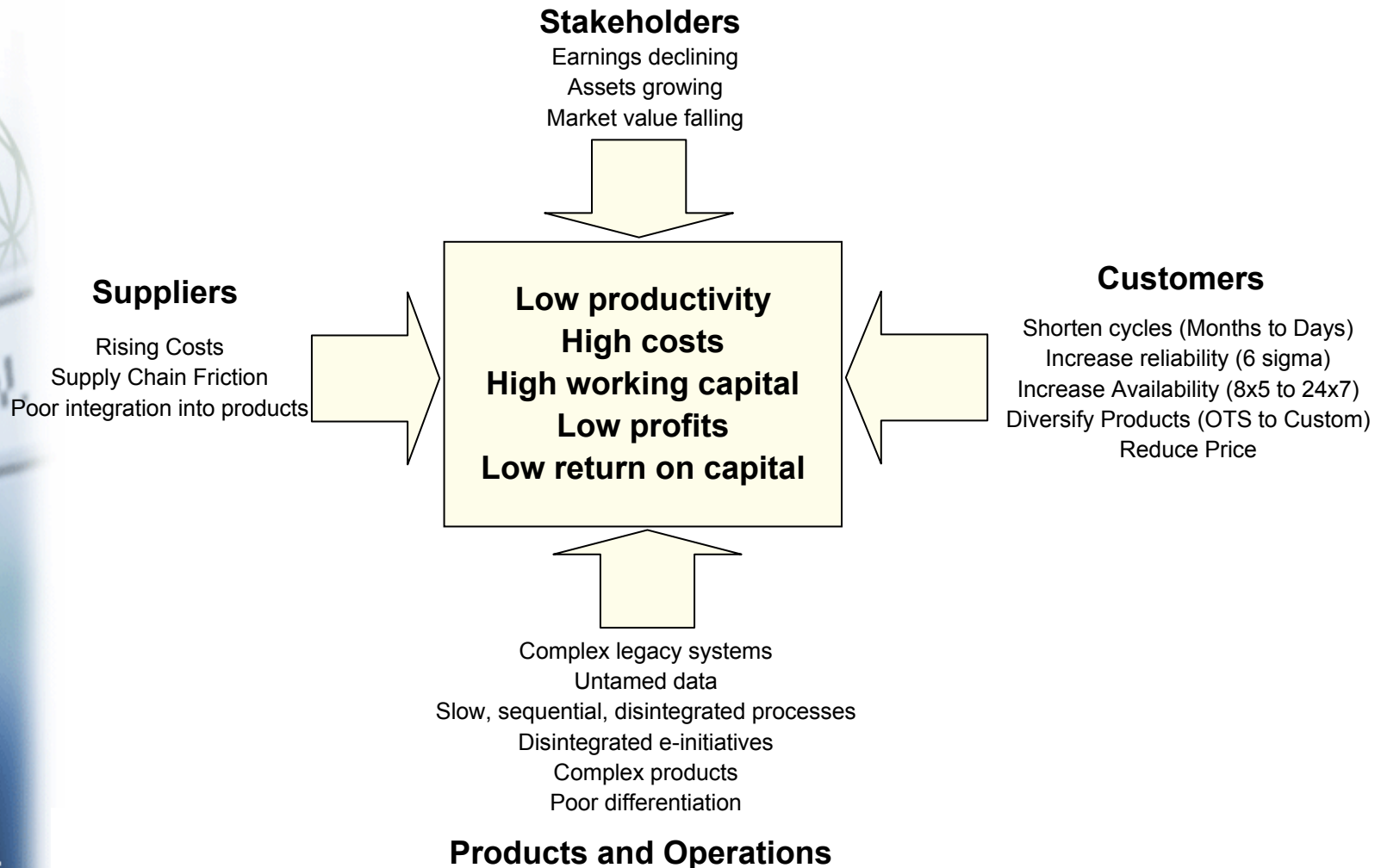
Samin Sarkar  
BI Industry Sales Leader  
IBM SWG EMEA

# Objectives for this session

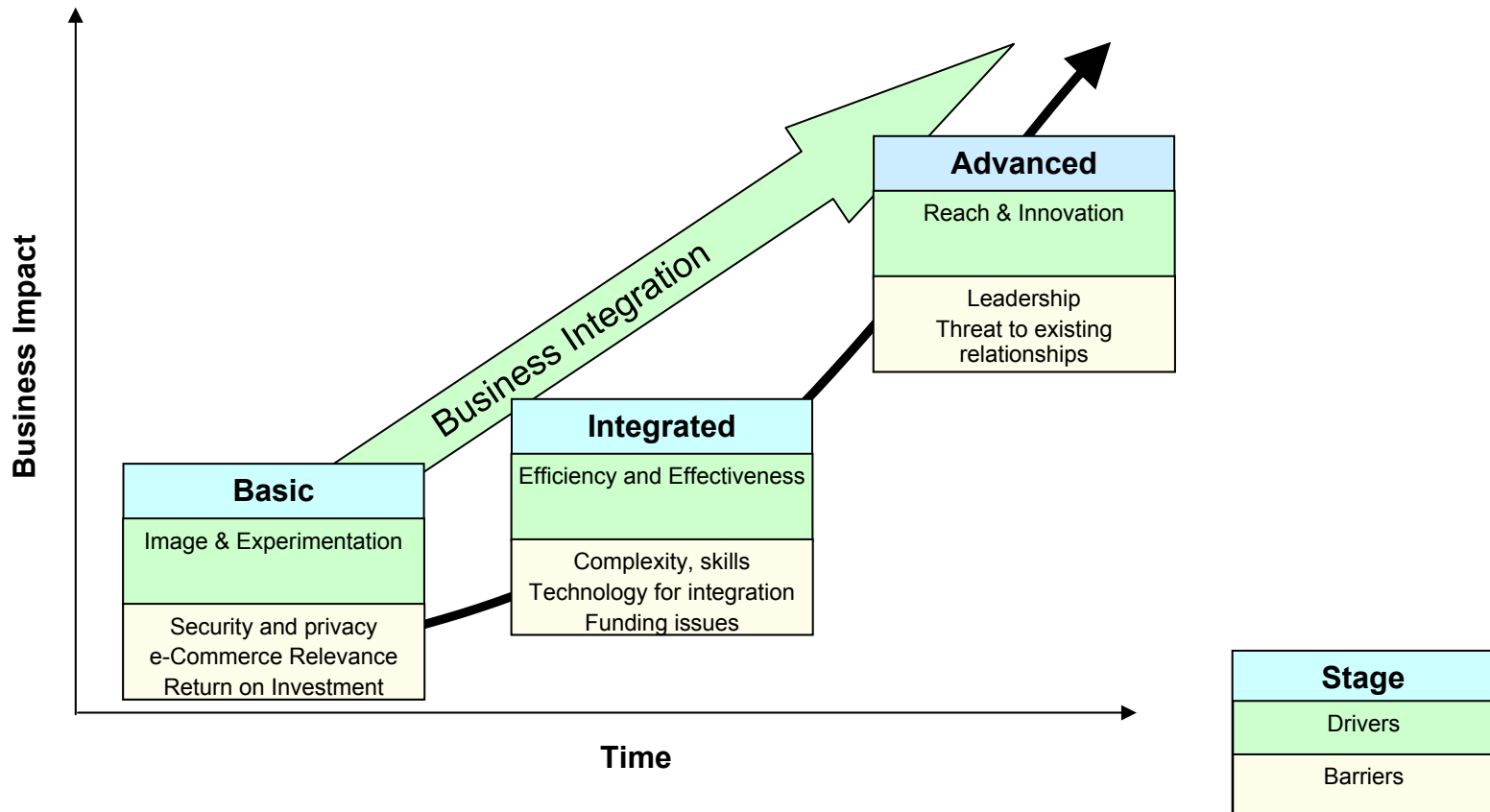
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- When you leave this session you will be able to:
  - Identify key drivers for business integration in the manufacturing sector
  - Understand the Websphere Business Integrator value proposition
  - Spot opportunities for business integration within your accounts

# Increasing economic pressure is forcing companies to seek new levels of operational performance



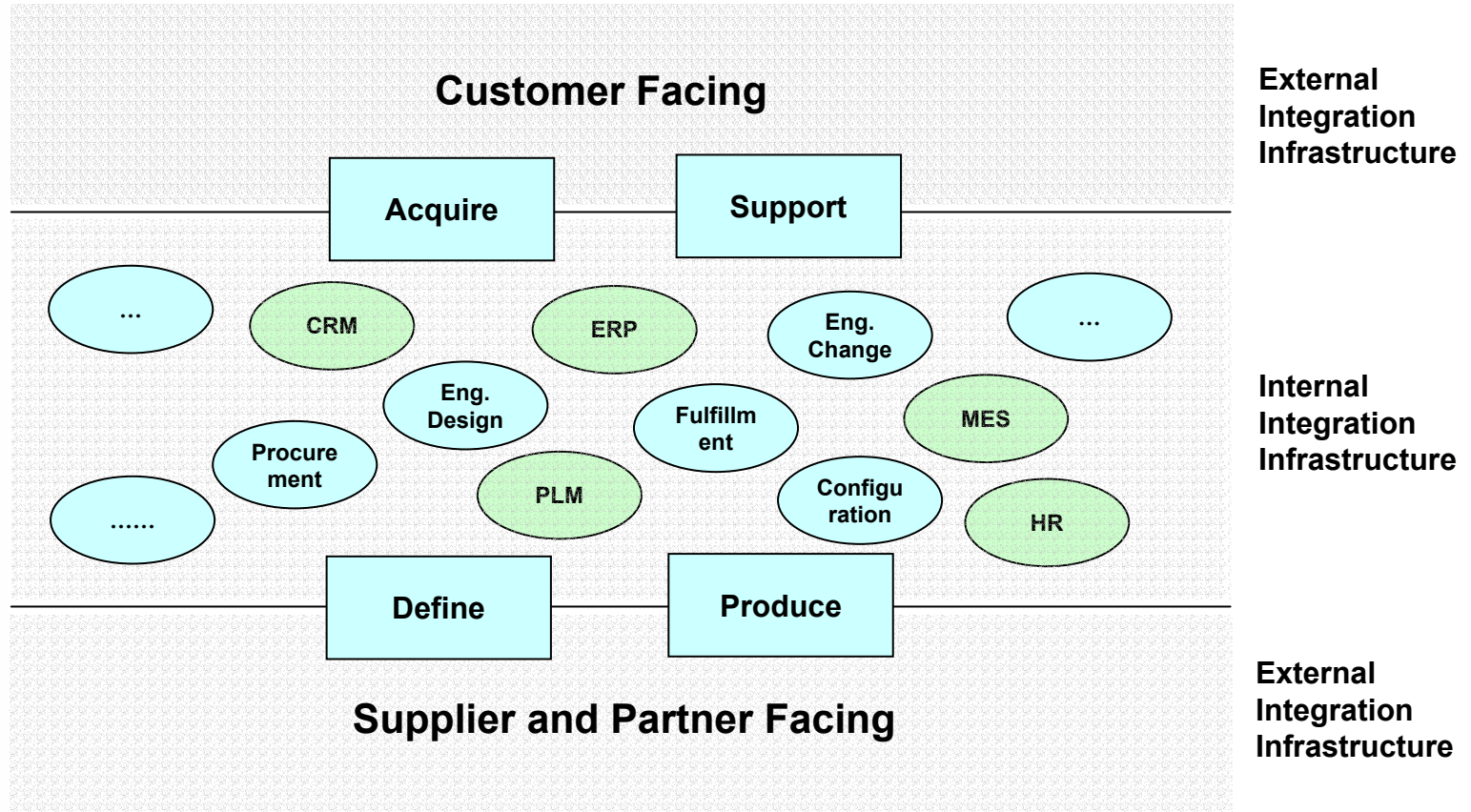
# Business Integration is the single most important enabler of increased inter and intra enterprise performance





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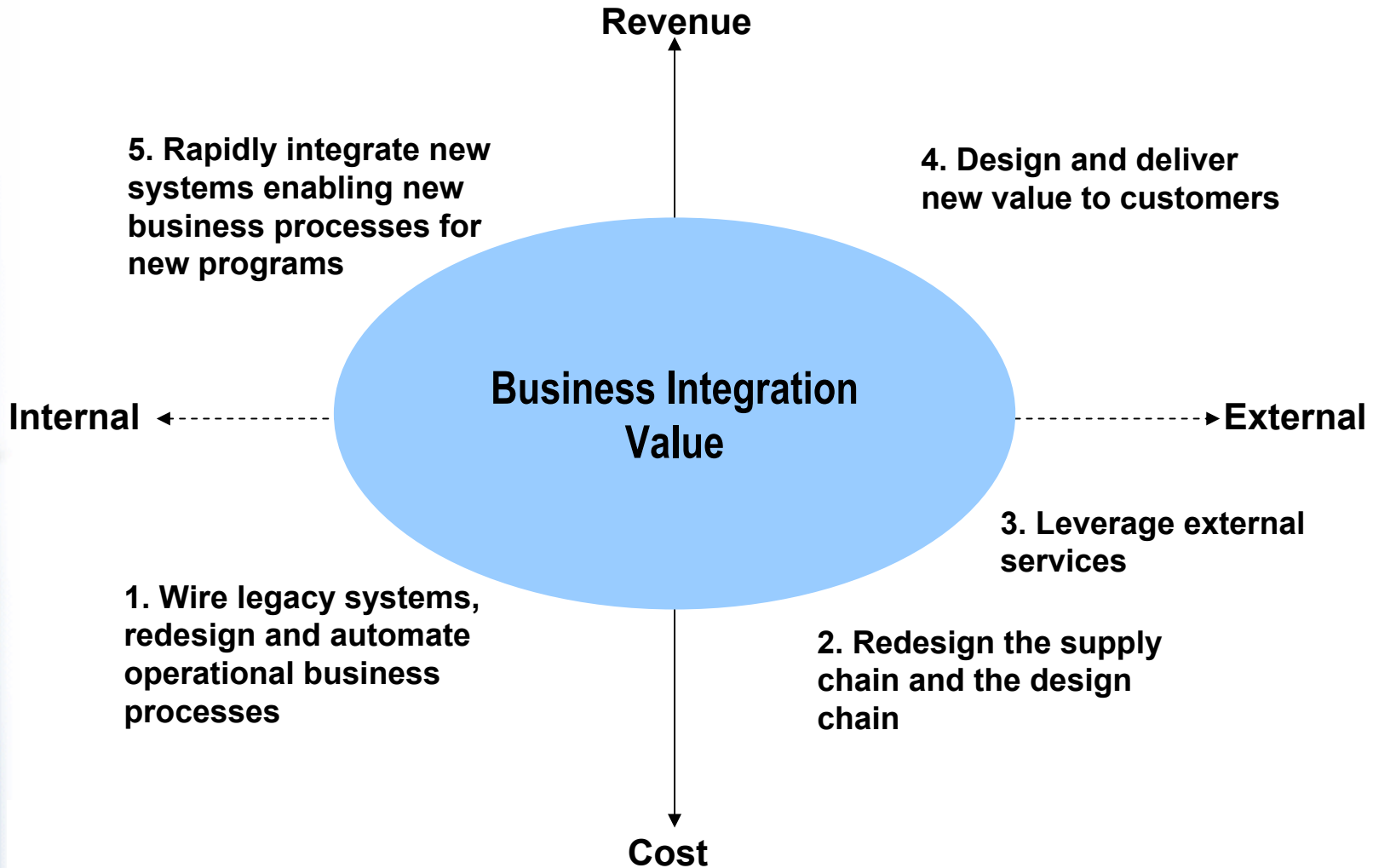
# Business Integration for Manufacturing Operations





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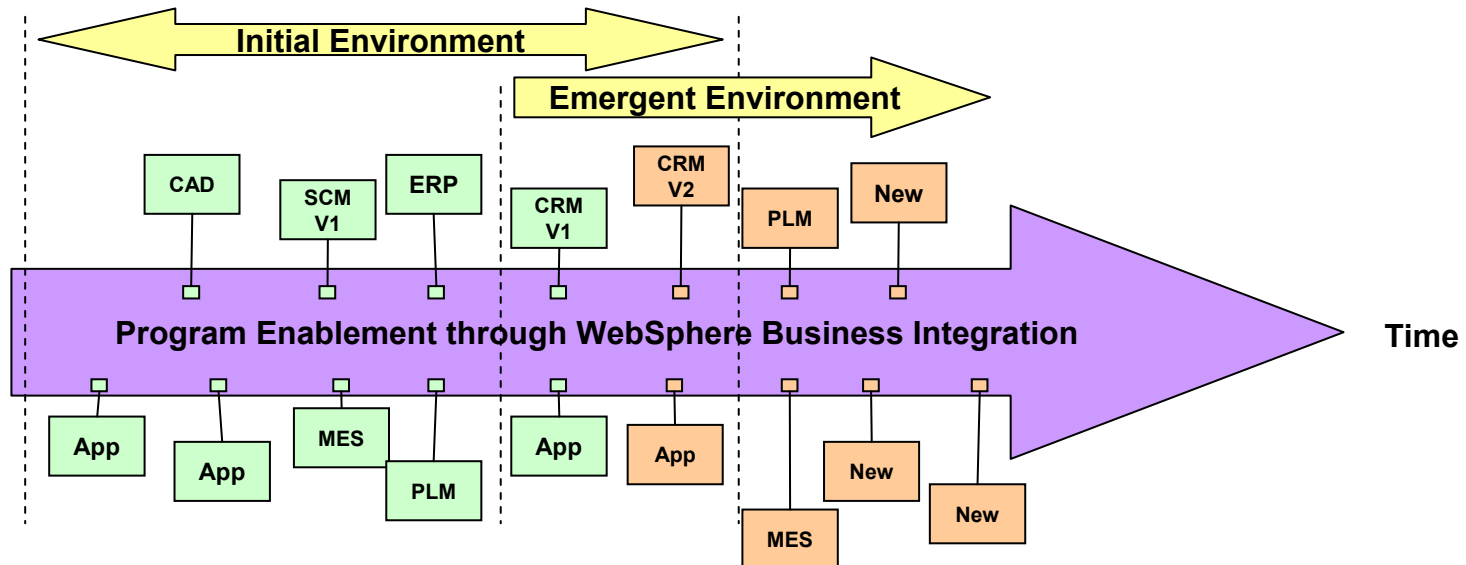
# Manufacturing - Business Integration Priorities





# Application and Systems Migration and Evolution

- Long duration Programs demand an evolving system of systems
- The tools supporting lifecycle business functions must be changed as new, applicable, best of breed tools emerge and as strategic tools age and move to new versions
- WebSphere Business Integration provides the framework for ongoing system and data migrations through phases of the Program lifecycle
- Primary Value = IT Cost Savings + Strategic Capability





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# WebSphere Business Integration Industry Collaborations

<u>Chemical</u>	<u>Manufacturing</u>	<u>Manufacturing (Electronics, Automotive, &amp; Industrial)</u>		
Order Create Order Response	RosettaNet Partner Interface Processes (PIP)	Trading Partner Order Management Vendor Manager Regen Process Mgr Supply Plan Input Regen Supply Plan Deployment Regen	Supply Plan Input Net Change Shipments to Date Return Status Return Delivery Status Return Billing Status	Price List Manager Available to Promise ATP to Sales Order Order Billing Status Order Delivery Status .....
<u>Financial Services</u>	<u>Retail</u>	<u>Insurance</u>	<u>Telco</u>	
Customer Mgmt. Portfolio Mgmt. Underwriting Claims Trading Distribution Agreement Admin	UCCNet Item Synchronization UCCNet Message Manager New Item Manager Workflow Manager	Homeowner First Loss: eClaim Traditional Life Policy Addition Personal Articles Coverage Quote Partial Withdrawal Surrender Quote - Life	Billing Inquiry Billing Management Customer Account Manager Product Catalog Order Handling Service Order Management Problem Handling	Customer Service Configuration and Activation Product Development and Retirement Resource Provisioning and Allocation





## Using Websphere Business Integrator to Sell Business Integration



# Today's Business Environment: Unifying Enterprise Data

- Overcome corporate organizational barriers to information by gaining a unified view of data, company-wide:
  - Customers, Products, Vendors, Employees
- Improve data integrity: updates or changes in one application are automatically reflected in all applications

## Benefits:

- Deliver to customer expectations for service, responsiveness
- Gain competitiveness with better decision making





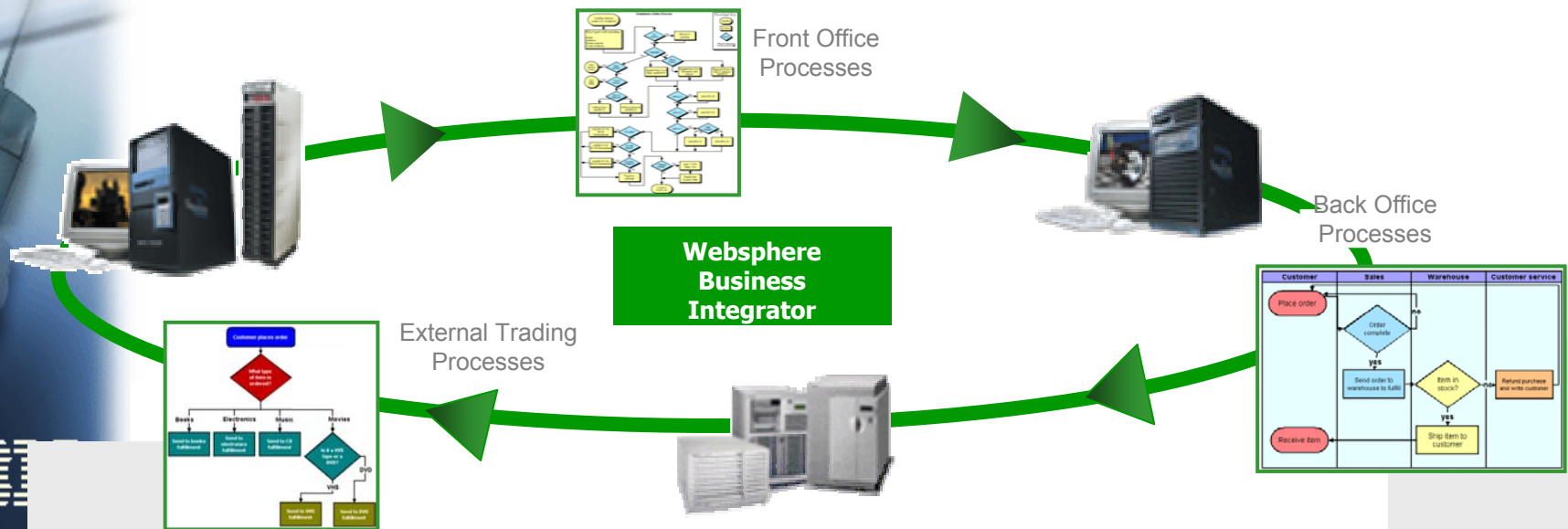
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# Today's Business Environment: Integrating Enterprise Processes

- Overcome barriers of 'stovepipe' operations by integrating business processes across the company:
  - Gain an enterprise-wide view of processes
- Achieve meaningful insight to process performance:
  - Optimize operations for efficiency and responsiveness

## Benefits:

- Diminish costs of operational inefficiencies
- Gain competitive edge with agile processes





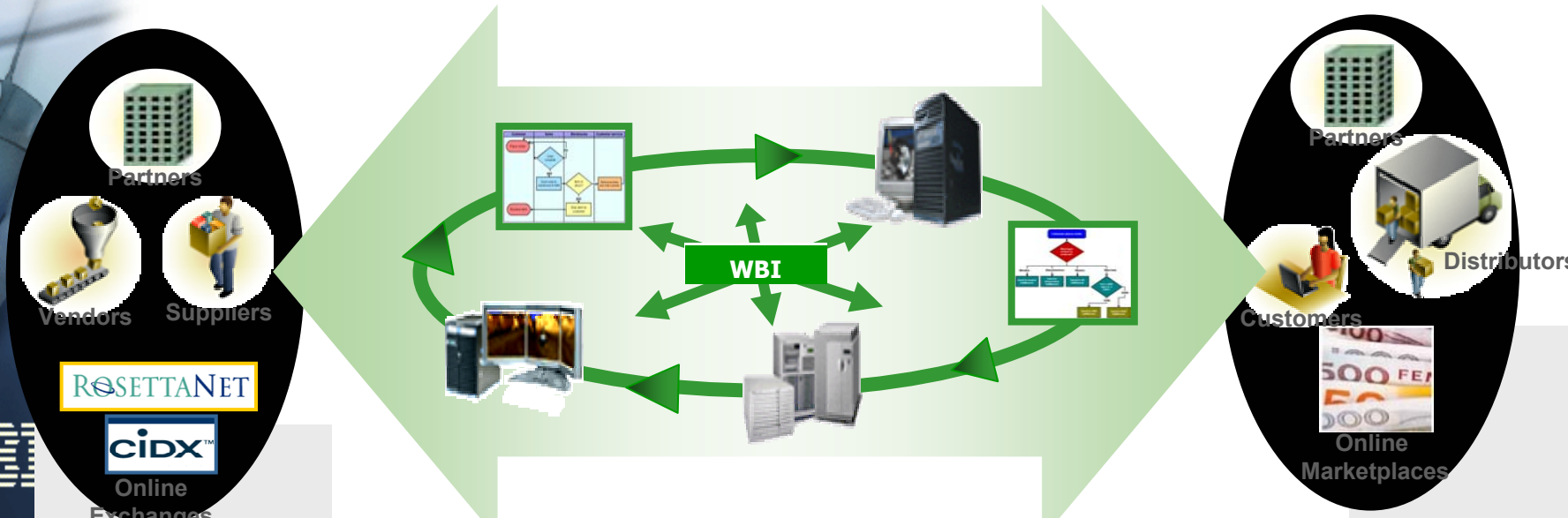
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# Today's Business Environment: Extending Business Beyond the Firewall E-Business & Collaborative Commerce

- Support external relationships by presenting a coherent and consistent face of your company
- Optimize processes between internal and external transactions:
  - eliminate costs, improve efficiency
- Establish more effective ways of doing business with trading partners and customers electronically

**Benefits:**

- Leverage benefits of Online Exchanges
- Cut costs in B2B Transactions
- Find new business opportunities





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# WBI Saves Time and Money - IT

- IT side of the story: IBM WBI benefits customer implementation and ongoing system management

Source: Gartner Group

	<b>Customer Savings (vs. Do-It-Yourself Integration)</b>	<b>Customer Savings (vs. IBM WBI Competitors)</b>
<b>Time to Implement Integration Software</b>	45% fewer hours	9% fewer hours than competitors
<b>Cost of Implementing Enterprise Software</b>	55% less cost	18% less cost than competitors
<b>Cost of Upgrading Enterprise Software</b>	79% less cost per year	6% less cost per year than competitors
<b>Cost of Maintaining Integration Software</b>	33% less cost per year	4% less cost per year than competitors



Source: Ross Altman, Gartner Research



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# WBI Saves Time and Money - Process

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- Process side of the story: IBM WBI delivers significant business value
  - improving efficiency,
  - eliminating costs,
  - supporting revenue-generating activities
  
- Examples:
  - Integrated Nortel Networks' 19 complex order processes of parent and subsidiary companies into one
  
  - Shortened Whirlpool's new product development and rollout process by 66% from 30 to 10 days
  
  - Reduced the time Ingersoll Rand needed to process orders by 90%

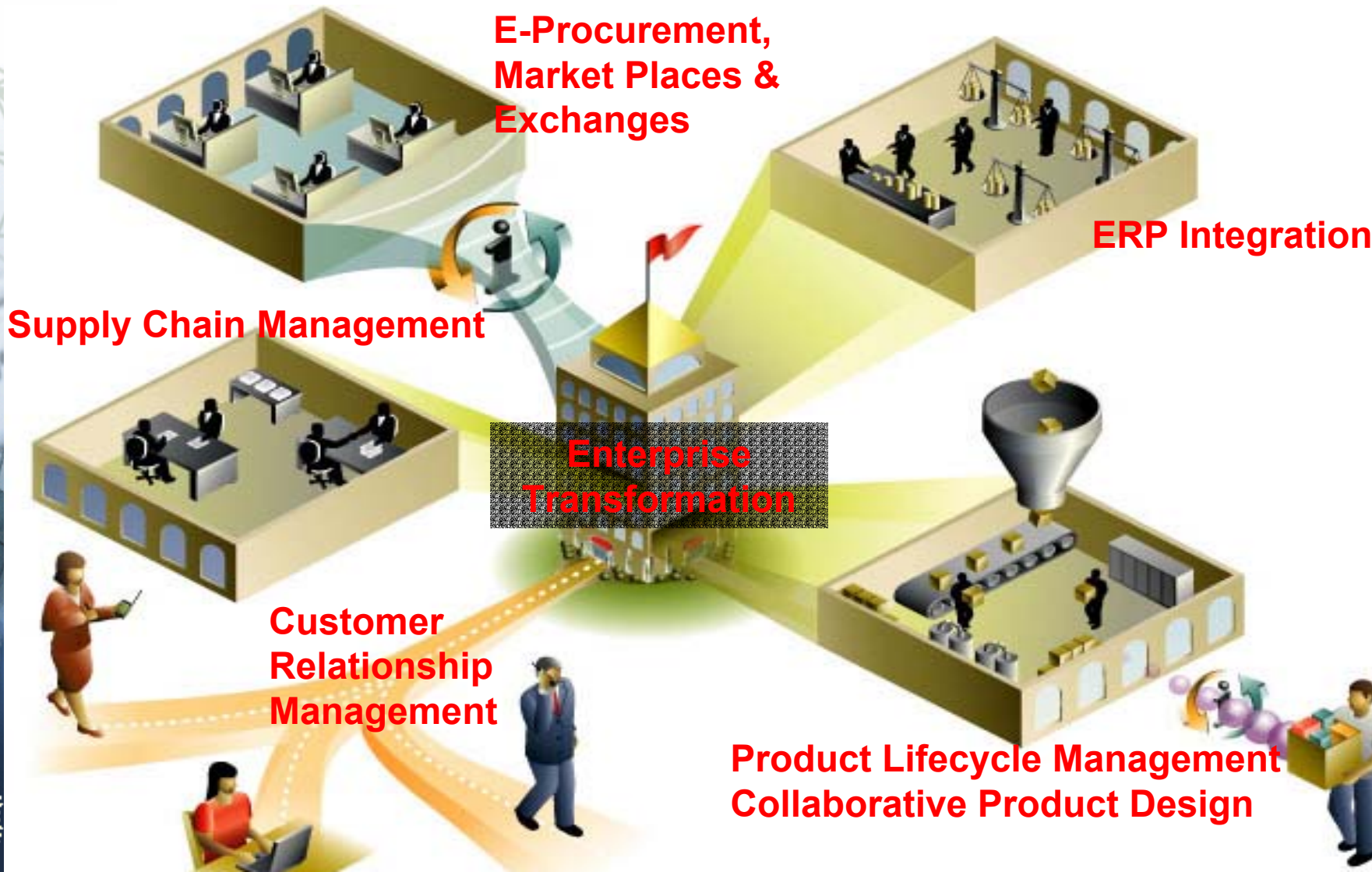


## What Customers Want From Business Integration



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# Business Process Management Landscape







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# The Market For Business Integration in Industry

Process  
Integration

**OSS / BSS integration**  
**Flow-through Provisioning**  
**Supply Chain Management**  
**Marketplaces & Exchanges**  
**e-Procurement**  
**Straight Through Processing / T+1**  
**On-Line Wealth Management**

**Process  
Integration**

Application  
Integration

**Application  
Integration**



# Major Play – Product Lifecycle Management

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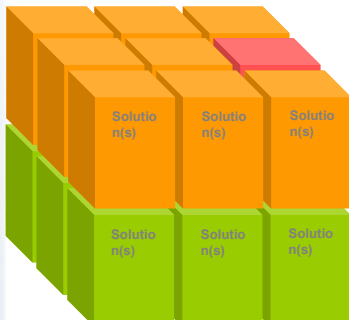
- Initiatives: Product Lifecycle Management, Collaborative Product Design
- Focus Industries: Industrial, High Tech, Automotive, Aerospace
- Customer Pains
  - Un-coordinated and fragmented design processes
  - No enterprise visibility into parts, assembly and logistics
  - Disparate IT environments
  - Manual steps for interfacing with partner processes yield errors, waste
- Integration Challenges:
  - Driving costs out of cross-functional processes
  - Streamlining design-through-manufacture processes
  - Coordinating structured and unstructured data





# Major Play – Product Lifecycle Management (Con'td)

- IBM WBI Solution solves pains by providing:
  - Single view of available parts across enterprise
  - Elimination of errors from manual reconciliation of design documents, manufacturing plans, bills of materials;
  - Automation of communication between design, inventory, manufacturing, logistics and partners
- Power Sponsors:
  - VP of Integration
  - VP Product Development and Design Management
  - VP Customer Services / Distribution / Logistics
  - COO, CFO





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# Success Story



# THERMO KING

## Business Challenge

- Reduce costs of maintaining interfaces between product design (Windchill), manufacture (Oracle), order, and maintenance (SAP, mainframe) systems
- Create single view of items for use across enterprise— eliminating costs of errors from inconsistent information
- Build flexible infrastructure: demonstrate ability to accommodate future process improvements as pilot for parent Ingersoll Rand

## Solution

- Replaced prior integration that increased technical complexity, cost
- Employed application and technology connectors, and Item Manager collaboration to unify item data for use by all systems

## Business Value

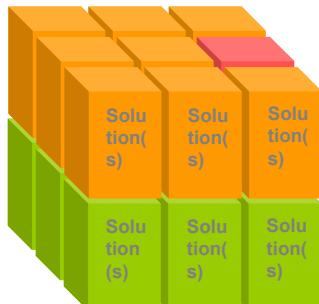
- Provided consistent, single view of item information across all systems
- Improved productivity of design-through-delivery processes
- Eliminated costs of maintaining interfaces and enterprise systems



# Major Play – Buy and Supply

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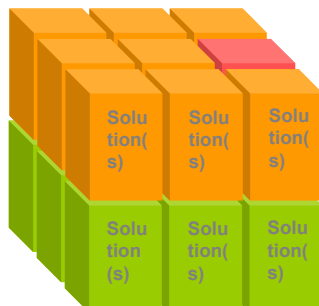
- Initiatives: e-Procurement, Collaborative Procurement
- Focus Industries: Chemical, Petroleum, Pharmaceutical, Consumer Packaged Goods
- Customer Pains
  - Eroding bottom line due to procurement costs, detracting from competitive advantages in R&D
  - Managing procurement processes and demand forecasts challenged by disconnected IT environments, heterogeneous customer data
  - Connecting to Online Exchanges is imperative, but requires conformance to industry standard processes and data
- Integration Challenges:
  - Bridging EDI migration from VAN to IP-based connections
  - Gaining access to Exchanges: On Ramping
  - Conforming to industry process and data standards



# Major Play – Buy and Supply Cont'd

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- IBM WBI Solution solves pains by providing ways to:
  - Help buyers and sellers integrate processes with each other easily, affordably, quickly, replace EDI
  - Integrate procurement and distribution systems and processes in conformance with industry standards
  - Enable networks of trading partners, and on-ramps to online Exchanges and Marketplaces
- Power Sponsors:
  - VP of Integration
  - VP of Procurement
  - VP Strategic Alliances
  - COO, CFO





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# Success Story

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## Business Challenge

Required access to Online Chemicals Exchange Elemica and development of e-commerce

Wanted flexibility to adopt new business processes with better agility & speed

Needed interface with strategic and legacy systems

Had to Improve internal I/S productivity and extend existing application life cycles



## Solution

Pre-built functionality to packaged applications

Common business object model

Easy-to-build legacy system connectors

Architecture to support future business direction

## Business Value

Strong business process management

No surprises along the way

Adherence to industry standard data formats





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# Success Story

## Business Challenge

- Respond better to increasing competitive pressures in the home appliance market
- Improve flexibility of operational processes and of IT infrastructure to accommodate evolving business strategy
- Reduce the product development and rollout cycle to more quickly meet distributor and customer demand



## Solution

- Integrated Trilogy's product development system with SAP to link demand information with production processes
- Replaced point-to-point integration infrastructure with a flexible, inclusive integration platform

## Business Value

- Reduced product rollout cycle 66% from 30 to 10 days
- Minimized IT costs of maintaining integration infrastructure
- Provided groundwork for future e-business initiatives to build an appliances exchange



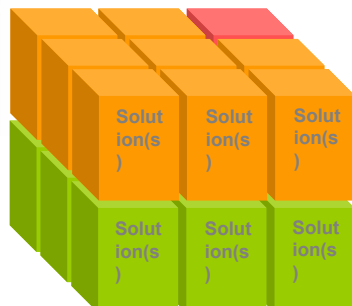




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# Major Play – Service After Sale

- Initiatives: Product/Service Maintenance, Flow Through Provisioning, Integrated Service Delivery
- Focus Industries: Industrial, Communications
- Customer Pains:
  - Managing customer satisfaction, maintenance contracts, service level agreements
  - Increasing market share within consumer and business segments; minimizing churn with tailored service offerings to meet specific customer needs
  - Seamless integration of upstream and downstream partner processes in the maintenance of products and services to customer base
- Integration Challenge:
  - Tying operational systems to business systems to unify customer account and service information
  - Improving customer service consistency across all customer touch points
  - Collecting relevant customer data



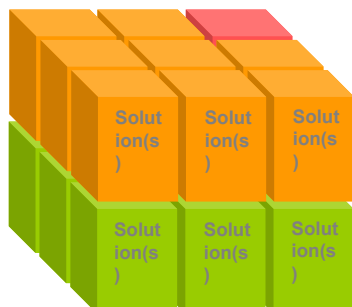
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# Major Play - Service After Sale (Con'td)

- Pain that IBM WBI Solution solves:
  - Presenting consistent customer information from back end systems to all customer touch points...
  - maintaining product and service records consistently over time, to meet contractual or service agreements...
  - enabling real-time customer transactions with lower operational costs and greater customer satisfaction...
- Power Sponsors:
  - VP of Integration
  - VP of Customer Operations
  - VP of Sales & Marketing
  - CFO, CEO



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# Success Story

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## Business Challenge

- Increase number of customers while maintaining customer service levels
- Develop new services in advance of competition in newly deregulated German market



SIEMENS

## Solution

- Integrated customer service systems Mannesmann and Scopus with back office systems
- Enabled distributed call centers to share customer data in real-time, to quickly address customer requests
- Integration infrastructure enabled online service billing for improved customer service

## Business Value

- Increased customer service productivity, responsiveness
- Improved ability to proactively develop and sell additional services
- Better information access improved competitive advantage

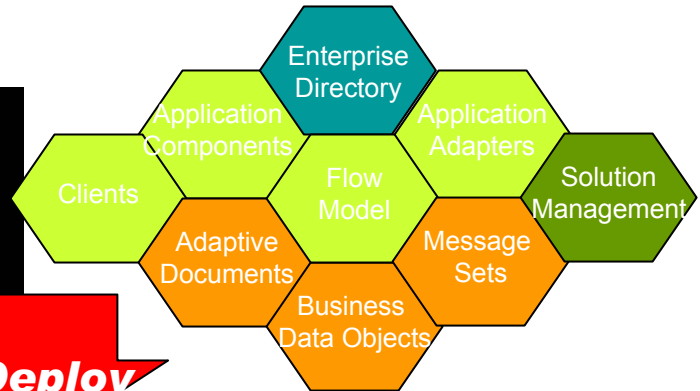


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# Industry Focus - Plans 2002

- Worldwide Business Integration Industry Team: Industrial, Distribution, Financial Services, Communications
- 40 Industry experts with specialized business process knowledge
- Direct sales support

- **Industry-specific solutions**
- **Design partnership**
- **Industry technical standardization**
- **Reusable collateral**
- **Market leadership positioning**
- **Innovative initiatives**



**WebSphere Business  
Integration**

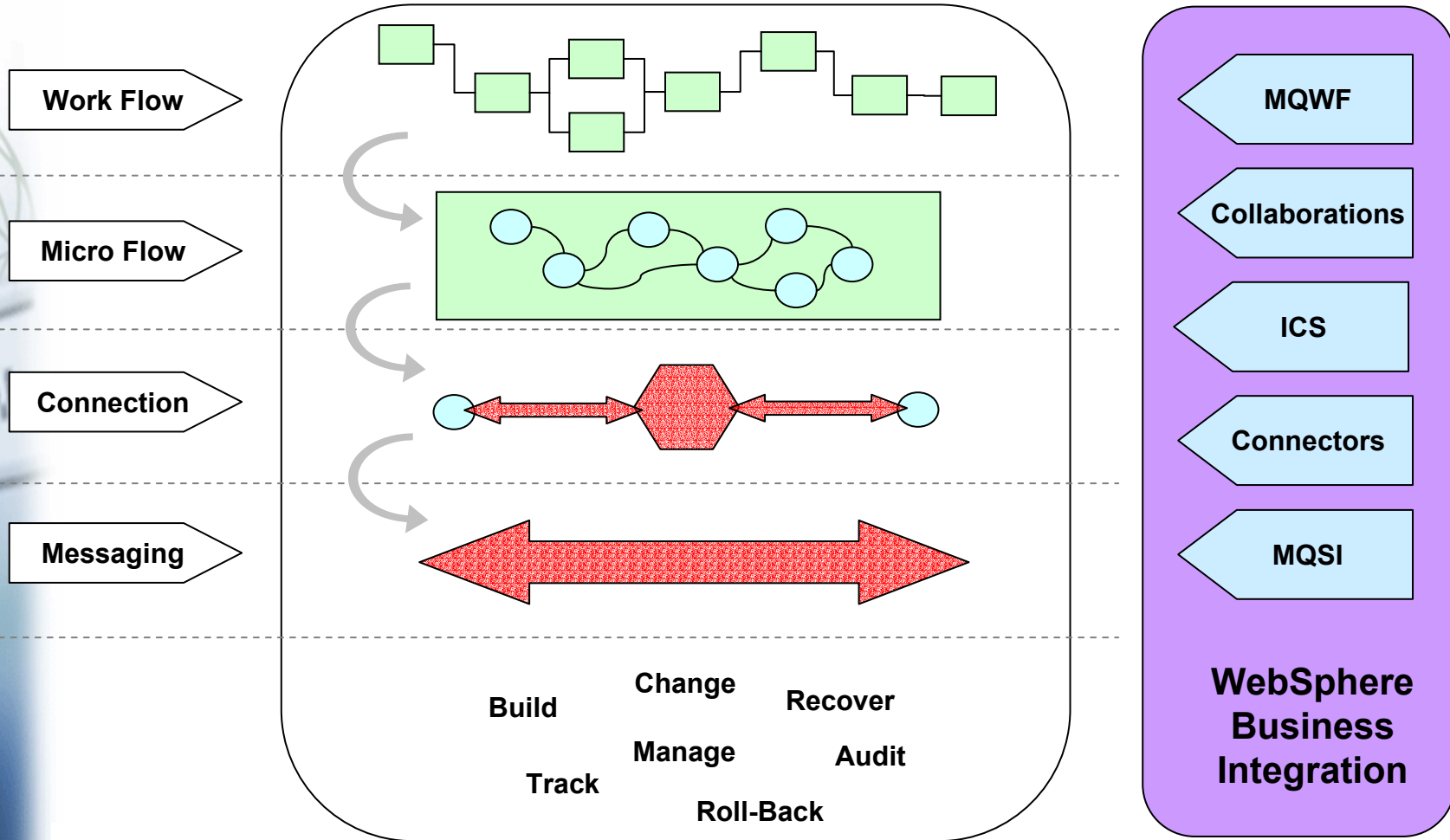


Any Questions?



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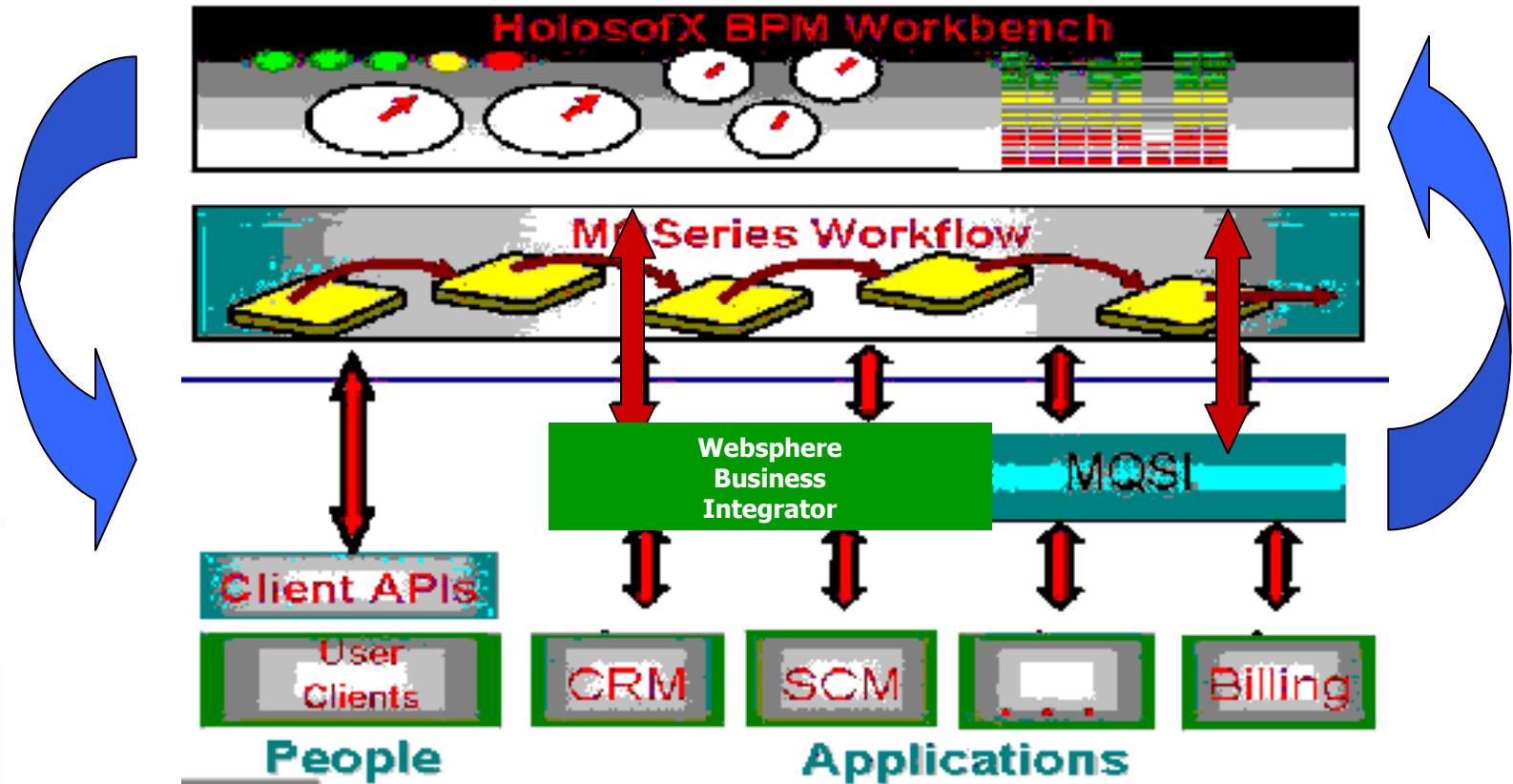
# Layers of Integration





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# WBI - Total Business Process Solution



- Top-Down Modeling
- Simulation
- Instrumentation
- Feedback

