Management Information Systems: Managing the Digital Firm Seventeenth Edition



Achieving Operational Excellence and Customer Intimacy: Enterprise Applications

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Learning Objectives

- **9.1** How do enterprise systems help businesses achieve operational excellence?
- **9.2** How do supply chain management systems coordinate planning, production, and logistics with suppliers?
- **9.3** How do customer relationship management systems help firms achieve customer intimacy?
- **9.4** What are the challenges that enterprise applications pose, and how are enterprise applications taking advantage of new technologies?

9.5 How will MIS help my career?

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Video Cases

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 Case 1: Maersk Develops a Global Shipping Management System

Lenzing Sustainably Balances Supply and Demand (1 of 2) • Problem

- High environmental standards
- Global operations
- Inefficient supply chain
- Manual processes

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- Solutions
 - Establish sustainability goals
 - Promote innovation
 - Select new technology
 - Revise supply chain processes
- Deploy JDA Sales & Operations Planning Pearson Copyright © 2022, 2020, 2018 Pearson Education, Inc. All Rights Reserved

Lenzing Sustainably Balances Supply and Demand (2 of 2)

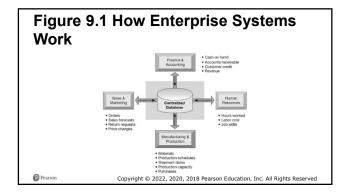
- Lenzing implemented JDA's Sales & Operations Planning software to gain better visibility into its supply chain, leading to greater forecast accuracy, better decisions, and higher operational efficiency across the global enterprise
- Helped Lenzing minimize waste and made its entire supply chain "leaner"
- Illustrates the critical nature of supply chain management systems in business

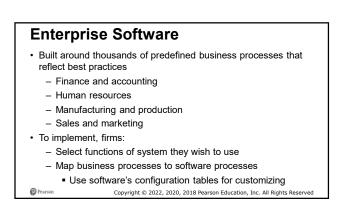
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What Are Enterprise Systems

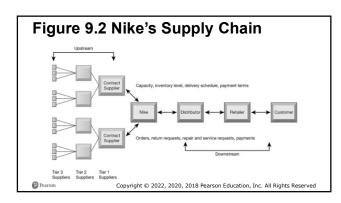
- Also known as enterprise resource planning (ERP) systems
- Based on a suite of integrated software modules and a common central database
- Collects data from many divisions of firm for use in nearly all of firm's internal business activities
- Information entered in one process is immediately available for other processes

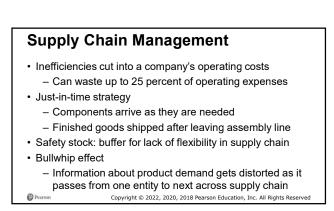
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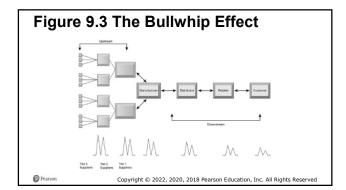




Business Value of Enterprise The Supply Chain **Systems** · Network of organizations and processes for: - Procuring materials · Increase operational efficiency - Transforming materials into products · Provide firm-wide information to support decision making - Distributing the products · Enable rapid responses to customer requests for · Upstream supply chain information or products · Downstream supply chain • Include analytical tools to evaluate overall organizational performance and improve decision-making · Internal supply chain Pearson Copyright © 2022, 2020, 2018 Pearson Education, Inc. All Rights Reserved Pearson Copyright © 2022, 2020, 2018 Pearson Education, Inc. All Rights Reserved









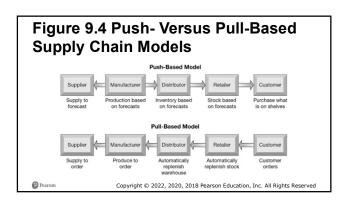
- · Supply chain planning systems
 - Model existing supply chain
 - Enable demand planning
 - Optimize sourcing, manufacturing plans
 - Establish inventory levels
- Identify transportation modes
- Supply chain execution systems
 - Manage flow of products through distribution centers and warehouses
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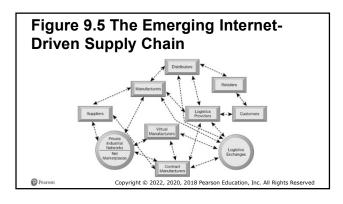
Global Supply Chains and the Internet

- · Global supply chain issues
 - Greater geographical distances, time differences
 - Participants from different countries
 - Different performance standards
 - Different legal requirements
- · Internet helps manage global complexities
 - Warehouse management
 - Transportation management
 - Logistics
 - Outsourcing
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- Schedules based on best guesses (
- Pull-based model (demand-driven)
 - Web-based
 - Customer orders trigger events in supply chain
- Internet enables move from sequential supply chains to concurrent supply chains
- Complex networks of suppliers can adjust immediately
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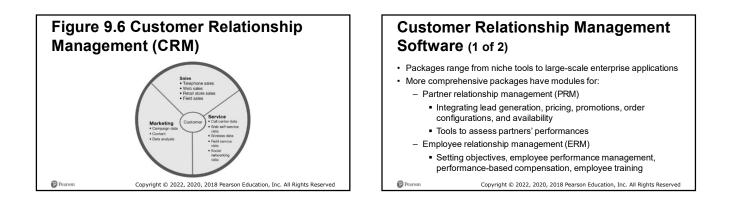


Business Value of Supply Chain Management Systems

- · Match supply to demand
- · Reduce inventory levels
- · Improve delivery service
- · Speed product time to market
- · Use assets more effectively
 - Total supply chain costs can be 75 percent of operating budget
- · Increase sales
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Customer Relationship Management

- · Knowing the customer
- · In large businesses, too many customers and too many ways customers interact with firm
- · CRM systems
 - Capture and integrate customer data from all over the organization
 - Consolidate and analyze customer data
 - Distribute customer information to various systems and customer touch points across enterprise
 - Provide single enterprise view of customers
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Customer Relationship Management Software (2 of 2)

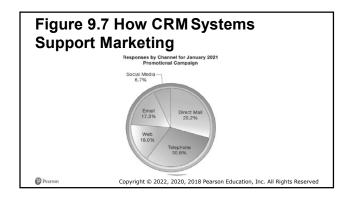


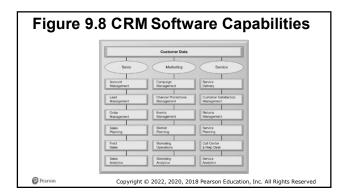
- Sales force automation (SFA)
 - Sales prospect and contact information
 - Sales quote generation capabilities
- Customer service
 - Assigning and managing customer service requests Web-based self-service capabilities
- Marketing

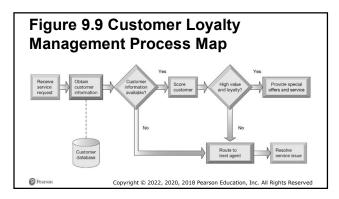
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- · Capturing prospect and customer data, scheduling and tracking direct-marketing mailings or e-mail
- Cross-sellina

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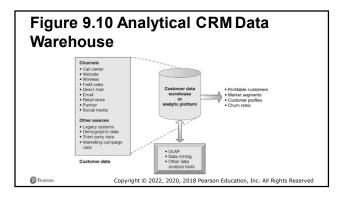






Operational and Analytical CRM

- Operational CRM
 - Customer-facing applications
 - Sales force automation call center and customer service support
 - Marketing automation
- Analytical CRM
 - Based on data warehouses populated by operational CRM systems and customer touch points
 - Analyzes customer data (OLAP, data mining, etc.)
 Customer lifetime value (CLTV)
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Business Value of Customer Relationship Management Systems

- Business value of CRM systems
 - Increased customer satisfaction
 - Reduced direct-marketing costs
 - More effective marketing
 - Lower costs for customer acquisition/retention
 - Increased sales revenue
- Churn rate
 - Number of customers who stop using or purchasing products or services from a company
 - Indicator of growth or decline of firm's customer base
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Interactive Session: Organizations: CRM Helps Adidas Know Its Customers One Shoe Buyer at a Time (1 of 2)

· Class discussion

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- Analyze Adidas using the competitive forces and value chain model.
- What is Adidas's business strategy? What is the rule of customer relationship management in that strategy?
- How do information systems support Adidas's strategy?

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Interactive Session: Organizations: CRM Helps Adidas Know Its Customers One Shoe Buyer at a Time (2 of 2)

Class discussion

- How did using Salesforce.com make Adidas more competitive? How did it change the way the company ran its business?
- Give an example of two business decisions that were improved by using Salesforce.com

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Enterprise Application Challenges

- · Expensive to purchase and implement
 - Many projects experience cost overruns
 - Long development times
- Technology changes
- · Business process changes
- · Organizational learning changes
- · Switching costs, dependence on software vendors
- · Data standardization, management, cleansing
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Next-Generation Enterprise Applications (1 of 2)

- · Enterprise solutions/suites
 - Make applications more flexible, web-enabled, integrated with other systems
- · Cloud-based versions
- Functionality for mobile platform
- Versions also available for small and medium-sized businesses

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Next-Generation Enterprise Applications (2 of 2)

- Social CRM
 - Incorporating social networking technologies
 - Company social networks
 - Monitor social media activity; social media analytics
 - Manage social and web-based campaigns
- Business intelligence
 - Inclusion of BI with enterprise applications
 - Flexible reporting, ad hoc analysis, "what-if" scenarios, digital
- dashboards, data visualization, AI machine learning
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Interactive Session: Technology: Versum's ERP Transformation

· Class discussion

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- Define the problem in this case study. What management, organization, and technology factors contributed to this problem?
- Was the SAP S/4 HANA SaaS solution a good one for Versum? Explain your answer.
- What challenges did Versum encounter implementing the new system?
- How did the new system change the way Versum ran its business?

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How Will MIS Help My Career?

- The Company: XYZ Global Industrial Components
- Position Description: Manufacturing management trainee
- Job Requirements
- Interview Questions
- · Author Tips

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