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### **Objectives**

In this chapter, you will learn about:

- What electronic commerce is and how it is experiencing a second wave of growth with a new focus on profitability
- Why companies now concentrate on revenue models and the analysis of business processes instead of business models when they undertake electronic commerce initiatives
- How economic forces have created a business environment that is fostering the second wave of electronic commerce
- The international nature of electronic commerce and the challenges that arise in engaging in electronic commerce on a global scale

#### E-Commerce and E-Business

- Electronic commerce is the use of technology, in particular the Internet, to conduct business
  - e-commerce generally refers to buying or selling electronically, usually interactively
  - e-business refers to conducting business activities, including business to business activities, using electronic communication.



### Categories of Electronic Commerce

- Five general e-commerce categories:
  - Business-to-consumer (b2c)
  - Business-to-business (b2b)
  - Business processes
  - Consumer-to-consumer (c2c)
  - Business-to-government (b2g)
- Supply management or procurement
  - Departments are devoted to negotiating purchase transactions with suppliers

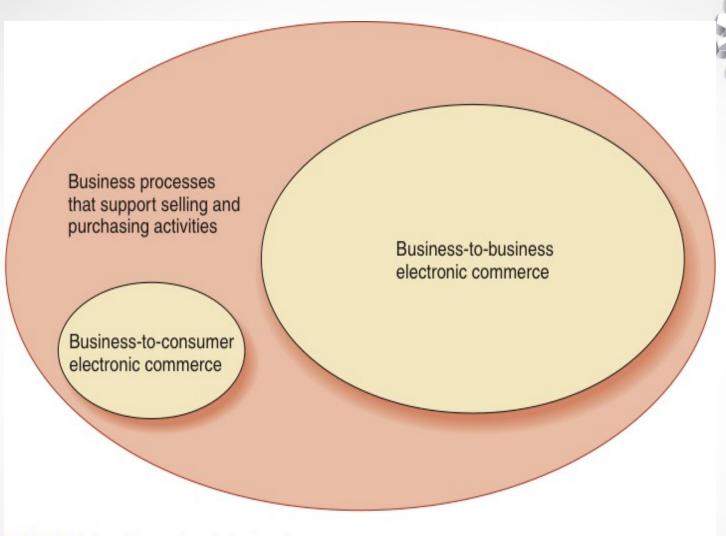
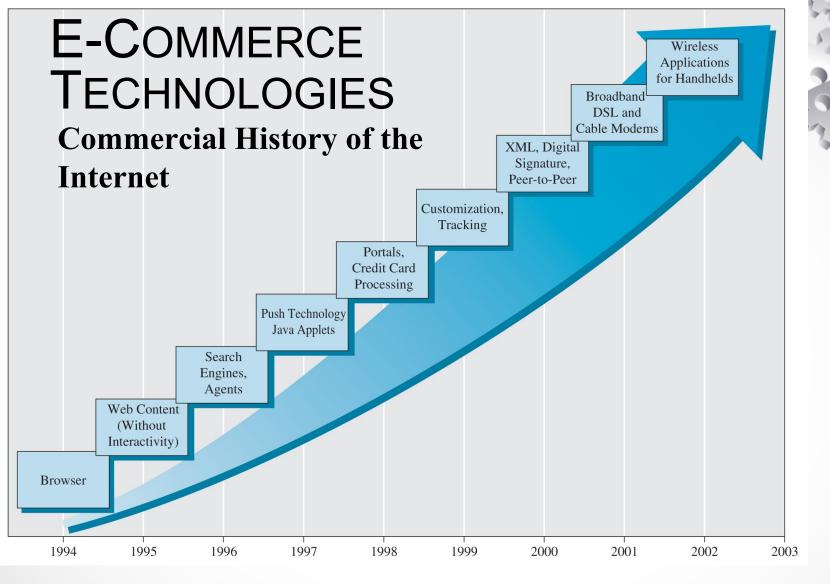


FIGURE 1-1 Elements of electronic commerce

# Important Electronic Commerce Terminology

- Transaction
  - An exchange of value
- Business processes
  - The group of logical, related, and sequential activities and transactions in which businesses engage
- Telecommuting or telework
  - Employees log in to company computers through the Internet instead of traveling to the office

- The History of Electronic Commerce
  - Electronic funds transfers (EFTs)
    - Also called wire transfers
    - Electronic transmissions of account exchange information over private communications networks
  - Electronic data interchange (EDI)
    - Transmitting computer-readable data in a standard format to another business



Internet Technology Innovations for E-Commerce

### The History of Electronic Commerce

- Trading partners
  - Businesses that engage in EDI with each other
- Value-added network (VAN)
  - Independent firm that offers connection and transaction-forwarding services to buyers and sellers engaged in EDI





B2C Sales: Actual and Estimated \$ Billions	B2B Sales (including EDI): Actual and Estimated \$ Billions
240	6800
190	5300
150	4100
130	2800
100	1600
80	900
70	730
50	600
25	550
10	520
5	490
Less than 1	460
	240 190 150 130 100 80 70 50 25 10 5

Adapted from reports by ClickZ Network (http://www.clickz.com/stats/stats\_toolbox/); eMarketer (http://www.emarketer.com/); Forrester Research (http://www.forrester.com); and the *Statistical Abstract of the United States*, 2004–2005, Washington: U.S. Census Bureau.

FIGURE 1-3 Actual and estimated online sales in B2C and B2B categories

### The First Wave of Electronic Commerce

- Defining characteristics of the first wave:
  - Dominant influence of U.S. businesses
  - Extensive use of the English language
  - Many new companies started with outside investor money
  - Unstructured use of e-mail
  - Over-reliance on advertising as a revenue source

## The Second Wave of Electronic Commerce



- Second wave:
  - Global enterprises in many countries are participating in electronic commerce
  - Established companies fund electronic commerce initiatives with their own capital
  - Customized e-mail strategies are now integral to customer contact

### **Business & Revenue Models and Business Processes**

#### Business model

 A set of processes that combine to yield a profit OR a plan for the successful operation of a business, identifying sources of revenue, the intended customer base, products, and details of financing.

#### Revenue model

- A specific collection of business processes used to:
  - Identify customers
  - Market to those customers
  - Generate sales to those customers

## Typical Business Models in EC



- Online direct marketing
- Electronic tendering systems (e.g., reverse auction)
- Name your own price
- Affiliate marketing
- Viral marketing
- Group purchasing
- Online auctions
- Product and service customization

- Electronic marketplaces and exchanges
- Value-chain integrators
- Value-chain service providers
- Information brokers
- Bartering
- Deep discounting
- Membership
- Supply chain improvers

### **Advantages of Electronic Commerce**

- Ecommerce ...
  - increases purchasing opportunities for buyers
  - makes easier negotiating price and delivery terms



## Disadvantages of Electronic Commerce

- Perishable products are difficult to sell online
- It is difficult to:
  - Calculate return on investment
  - Integrate existing databases and transactionprocessing software into software that enables ecommerce
- Cultural and legal obstacles also exist



#### What are the functions of markets?

- 1. matching buyers and sellers
- facilitating the exchange of information, goods, services, and payments associated with market transactions
- providing an institutional infrastructure, such as a legal and regulatory framework, that enables the efficient functioning of the market

#### **Transaction Costs**

- Transaction costs are the total costs that a buyer and seller incur
  - Significant components of transaction costs:
    - Cost of information search and acquisition
    - Investment of the seller in equipment or in the hiring of skilled employees to supply products or services to the buyer

## **Using Electronic Commerce to Reduce Transaction Costs**

- Businesses and individuals can use electronic commerce to reduce transaction costs by:
  - Improving the flow of information
  - Increasing coordination of actions

### **Network Economic Structures**

- Network economic structures: Companies coordinate their strategies, resources, and skill sets by forming long-term, stable relationships with other companies and individuals based on shared purposes
  - Strategic alliances: Relationships created within the network economic structure
    - Virtual companies/organizations: Strategic alliances that occur between or among companies operating on the Internet
    - Strategic partners: Entities that come together as a team for a specific project or activity

## **Strategic Business Unit Value Chains**



- A way of organizing the activities that each strategic business unit undertakes
- Primary activities include:
  - Designing, producing, promoting, marketing, delivering, and supporting the products or services it sells
- Supporting activities include:
  - Human resource management and purchasing

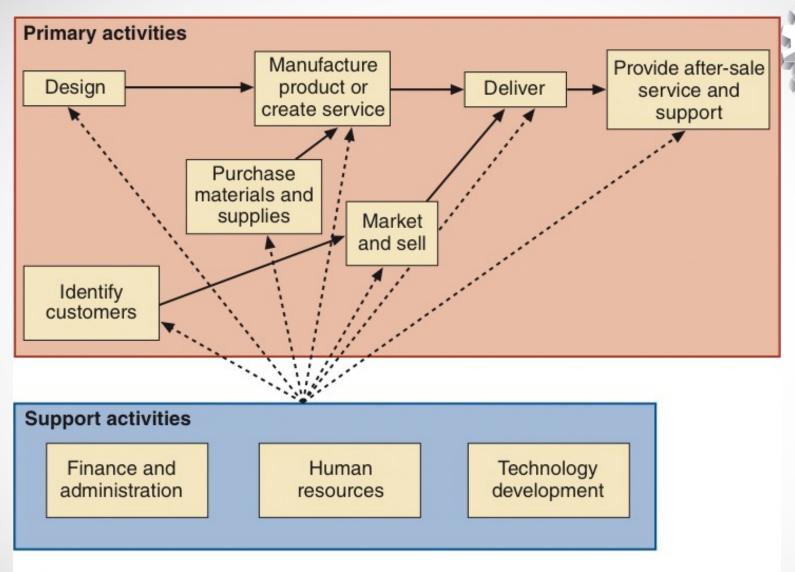


FIGURE 1-9 Value chain for a strategic business unit

## **An Alternative View of a Value Chain**



#### **Culture Issues**

 An important element of business trust is anticipating how the other party to a transaction will act in specific circumstances

#### Culture:

- Combination of language and customs
- Varies across national boundaries
- Varies across regions within nations

### Summary

- Commerce
  - Negotiated exchange of goods or services
- Electronic commerce
  - Application of new technologies to conduct business more effectively
- First wave of electronic commerce
  - Ended in 2000
- Second wave of electronic commerce
  - New approaches to integrating Internet technologies into business processes



### Summary

- Using electronic commerce, businesses have:
  - Created new products and services
  - Improved promotion, marketing, and delivery of existing offerings
- The global nature of electronic commerce leads to many opportunities and few challenges
- To conduct electronic commerce across international borders, you must understand the trust, cultural, language, and legal issues