

Definition of Commerce

- The exchange of goods and services for money
- · Consists of:

Buyers - these are people with money who want to purchase a good or service.

Sellers - these are the people who offer goods and services to buyers.

Producers - these are the people who create the products and services that offer to buyers.

Elements of Commerce

You also need a way to accept money.

 You need a way to deliver the product or service, often known as fulfillment.

Sometimes customers do not like what

they buy, so you need a way to accept

You need a customer service and technical support department to assist

Elements of Commerce

- · You need a Product or service to sell
- You need a Place from which to sell the products
- You need to figure out a way to get people to come to your place.
- · You need a way to accept orders.



customers with products.

What is e-commerce?

- Electronic commerce is a set of technologies, applications, and business processes that link business, consumers, and communities
 - For buying, selling, and delivering products and services
 - For integrating and optimizing processes within and between participant entities



What is e-commerce?

- Electronic commerce can also be defined as the doing commerce with the use of computers, networks and commerce-enabled software (more than just online shopping).
- · Uses electronic technology such as:
- Internet
- Extranet/Intranet
- Protocols





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

E-Commerce Vs. E-Business

- The words Commerce and Business don't have much difference in English and
- are largely interchangeable as nouns describing organized profit-seeking activity.
- There is however a difference between e-Commerce and e-Business.



E-Commerce Vs. E-Business

- · The difference is quite artificial,
- but different terms do carry different meanings.
- Electronic business transactions involving money are "e-Commerce" activities.
- However, there is much more to e-Business than selling products:



E-Commerce Vs. E-Business

- Marketing, procurement and customer education?
- · Even to sell on-line successfully,
- much more is required than merely having a website that accepts credit cards.
- We need to have a web site that people want to visit,
- accurate catalog information and good logistics.



- 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
- e-[you fill in the blank]

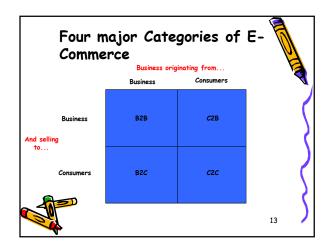


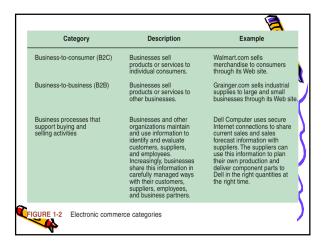
Categories of E-Commerce

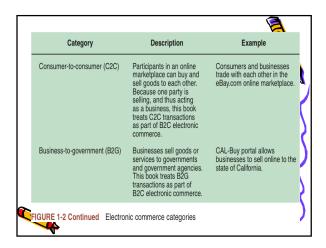
- Four major e-commerce categories:
- Business-to-consumer (b2c)
- Business-to-business (b2b)
- Consumer-to-consumer (c2c)
- Business-to-government (b2g)



12







E-commerce applications

- · Supply chain management
- · Video on demand
- · Remote banking
- · Procurement and purchasing
- · Online marketing and advertisement
- · Home shopping
- Auctions



History of E-Commerce

- EC applications first developed in the early 1970s
- · Electronic funds transfers (EFTs)
 - Also called wire transfers
 - Electronic transmissions of account exchange information over private communications networks

History of E-Commerce

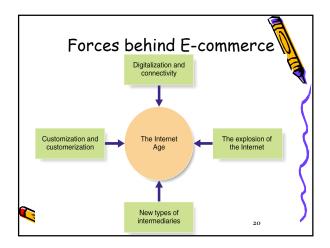
- · Limited to:
 - Large corporations
 - Financial institutions
 - A few other daring businesses
- Electronic data interchange (EDI) electronic transfer of documents:
 - Purchase orders
 - Invoices
 - payments between firms doing business



History of E-Commerce

- Enlarged pool of participants to include:
 - Manufacturers
 - Retailers
 - Service providers





Forces behind E-commerce

- Digitalization & Connectivity
 - Intranets: connect people within a company.
 - Extranets: connect a company with its suppliers, distributors, and outside partners.
 - Internet: connects users around the world.
- Internet Explosion
 - Explosive worldwide growth forms the heart of the New Economy.
 - Increasing numbers of users each month.
 - Companies must adopt Internet technology or risk being left behind.

21

Forces behind E-commerce

- New Types of Intermediaries:
 - Direct selling via the Internet bypassed existing intermediaries (disintermediation).
 - "Brick-and-mortar" firms became "clickand-mortar" companies.
 - As a result, some "click-only" companies have failed.



22

Forces behind E-commerce

- Customization and Customerization:
 - With customization, the company custom designs the market offering for the customer.
 - With customerization, the customer designs the market offering and the company makes it.



23

Others Forces behind E-commerce

- Technological degree of advancement of telecommunications infrastructure
- Political role of government, creating legislation, funding and support
- Social IT skills, education and training of users
- Economic general wealth and

24

Others Forces behind E-commen

- Organizational culture- attitudes to R&D, willingness to innovate and use technology
- Commercial benefits- impact on financial performance of the firm
- Skilled/committed workforce- willing and able to implement and use new technology
- Requirements of customers/suppliers- in terms of product and service
- Competition- stay ahead of or keep up with competitors

25

Benefits of e-Commerce

- · Expanded Geographical Reach
- · Expanded Customer Base
- Increase Visibility through Search Engine Marketing
- Provide Customers valuable information about your business



EMTM 553

26

Benefits of e-Commerce

- · Available 24/7/365 Never Close
- · Build Customer Loyalty
- Reduction of Marketing and Advertising Costs
- · Collection of Customer Data
- Basic Benefits of e Business e-Commerce o increase sales - this is the first thing that people consider

Limitations of E-commer

- To organizations: lack of security, reliability, standards, changing technology, pressure to innovate, competition, old vs. new technology
- To consumers: equipment costs, access costs, knowledge, lack of privacy for personal data, relationship replacement
- To society: less human interaction, social division, reliance on technology,
 Ped resources, JIT manufacturing

28

Technical limitations

- There is a lack of universally accepted standards for quality, security, and reliability
- The telecommunications bandwidth is insufficient
- Software development tools are still evolving



29

Technical limitations

- There are difficulties in integrating the Internet and EC software with some existing (especially legacy) applications and databases.
- Special Web servers in addition to the network servers are needed (added cost).
- Internet accessibility is still expensive and/or inconvenient



Introduction to M-commerce

- Mobile commerce (M-commerce) is a type of e-commerce conducted through mobile devices
- such as mobile phones, personal digital assistants (PDAs) and other devices with a wireless connection.



M-commerce

- It is quite different from traditional of E-commerce.
- Mobile Commerce refers to any transaction with monetary value that is conducted via a mobile telecommunications network.



What is M-Commerce?

- M-commerce is the buying and selling of goods and services through wireless handheld devices.
- M-Commerce is the process of paying for services using a mobile phone or personal organizer.
- > M-Commerce is the use of mobile devices to communicate, inform transact and entertain using text and that a via a connection to public and rivate networks.

The Unique Characteristics of M-Commerce

- · Ubiquity.
 - When was the last time you left home without your mobile phone, PDA, pager, or other mobile device that has become the center of your personal and professional universe?
 - Mobile devices fulfill the need for realtime information and communication in a way desktop PCs, which are dependent on a user's location, will never be able to do.

Convenience and Accessibility

- In the wired e-commerce world, people are constrained by time and place.
- Not so in the m-commerce world where being seated at a PC is not a prerequisite for sending email, bidding on eBay, trading stock, or getting the latest sports results.
- Moreover, users can still maintain their privacy by limiting who has access to them, and at what times.

Localization.

- With technologies like GPS (Global Positioning System) or TOA (Time of Arrival).
- m-commerce will enable users and merchants to receive and access information and services specific to their location.



Personalization.

- While personalization has started to make some strides with the wired Web,
- the wireless world offers a vastly superior opportunity for companies to provide personalized, one-to-one services to its customers.
- Where the PC is often shared across multiple users, mobile devices are prically operated by and configured for a single user.

Form Factors.

- The physical form of mobile devices (e.g., screens, keyboards, weight) invokes a very different user experience from that of a desktop PC.
- To be successful companies should appreciate these limitations and design offerings that leverage the positive attributes of a particular

Bandwidth and Capacity.

- While streaming audio and video capabilities over mobile devices are enticing, current bandwidth and device limitations (e.g., processor speeds, memory and storage capacity)
- demand that the first generation of mobile offerings is practical and predominantly text-based.



