

Secure Electronic Commerce

電子市集 (E-Marketplaces)

992SEC03 TGMXM0A Fri. 6,7,8 (13:10-16:00) L526

Min-Yuh Day<u>戴敏育</u>Assistant Professor專任助理教授

Dept. of Information Management, Tamkang University

<u>淡江大學 資訊管理學系</u>

http://mail.im.tku.edu.tw/~myday/

2011-03-04

Syllabus

週次月/日 內容(Subject/Topics

- 100/02/18 電子商務安全課程簡介 (Course Orientation for Secure Electronic Commerce)
- 2 100/02/25 電子商務概論 (Introduction to E-Commerce)
- 3 100/03/04 電子市集 (E-Marketplaces)
- 4 100/03/11 電子商務環境下之零售:產品與服務 (Retailing in Electronic Commerce: Products and Services)
- 5 100/03/18 網路消費者行為、市場研究與廣告 (Online Consumer Behavior, Market Research, and Advertisement)
- 6 100/03/25 電子商務 B2B、B2C、C2C (B2B, B2C, C2C E-Commerce)
- 7 100/04/01 Web 2.0, Social Network, Social Media
- 8 100/04/08 教學行政觀摩日
- 9 100/04/15 行動運算與行動商務 (Mobile Computing and Commerce)

10 100/04/22 期中考試週

Syllabus (cont.)

週次月/日 內容 (Subject/Topics

- 11 100/04/29 電子商務安全 (E-Commerce Security)
- 12 100/05/06 數位憑證 (Digital Certificate)
- 13 100/05/13 網路與網站安全 (Network and Website Security)
- 14 100/05/20 交易安全、系統安全、IC卡安全、電子付款 (Transaction Security, System Security, IC Card Security, Electronic Commerce Payment Systems)
- 15 100/05/27 行動商務安全 (Mobile Commerce Security)
- 16 100/06/03 電子金融安全控管機制 (E-Finance Security Control Mechanisms)
- 17 100/06/10 營運安全管理 (Operation Security Management)
- 18 100/06/17 期末考試週

Chapter 2 E-Marketplaces: Mechanisms, Tools, and Impacts of E-Commerce

Source: Turban et al., Introduction to Electronic Commerce, Third Edition, 2010, Pearson

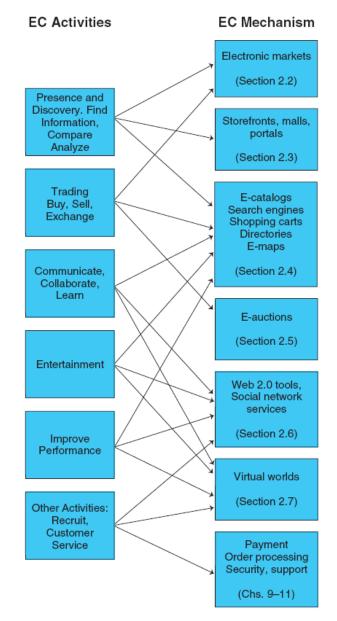
LEARNING OBJECTIVES

- Describe the major electronic commerce (EC) activities and processes and the mechanisms that support them.
- 2. Define e-marketplaces and list their components.
- List the major types of e-marketplaces and describe their features.
- 4. Describe electronic catalogs, search engines, and shopping carts.

LEARNING OBJECTIVES

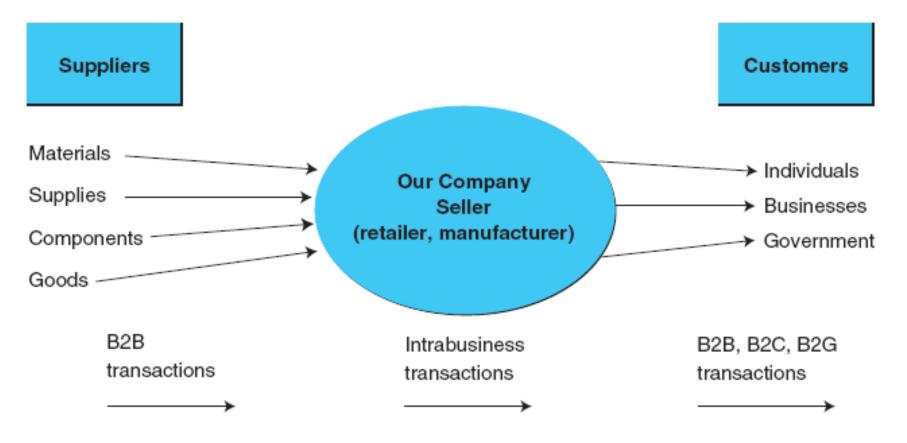
- 5. Describe the major types of auctions and list their characteristics.
- 6. Discuss the benefits, limitations, and impacts of auctions.
- 7. Describe bartering and negotiating online.
- 8. List the major Web 2.0 tools and their use in EC.
- 9. Understand virtual worlds and their use in EC.

EXHIBIT 2.1 The EC Activities-Mechanism Connection



Copyright © 2011 Pearson Education, Inc. Publishing as Prentice Hall

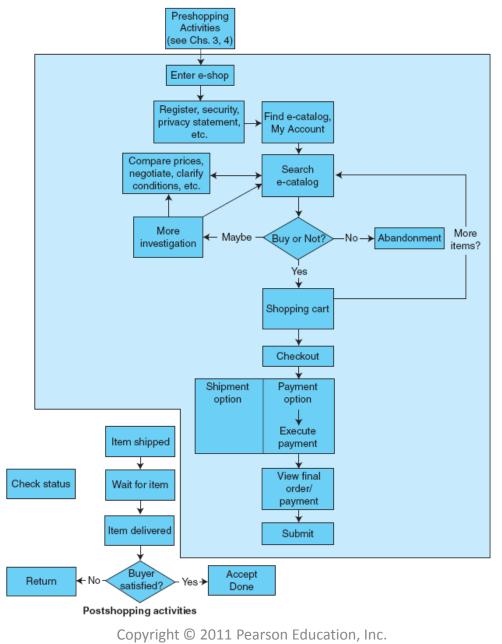
EXHIBIT 2.2 EC Activities



• e-marketplace

An online market, usually B2B, in which buyers and sellers exchange goods or services; the three types of e-marketplaces are private, public, and consortia.

EXHIBIT 2.3 Buying Process in an E-Market



Matching of Buyers and Sellers	Facilitation of Transactions	Institutional Infrastructure
 Determination of product offerings Product features offered by sellers Aggregation of different products Search (of buyers for sellers and of sellers for buyers) Price and product information Organizing bids and bartering Matching seller offerings with buyer preferences Price discovery Process and outcome in determination of prices Enabling price comparisons Others Providing sales leads 	 Logistics Delivery of information, goods, or services to buyers Settlement Transfer of payments to sellers Trust Credit system, reputations, rating agencies such as <i>Consumer Reports</i> and the BBB, special escrow and online trust agencies Communication Posting buyers' requests 	 Legal Commercial code, contract law, dispute resolution, intellectual property protection Regulatory Regulatory Rules and regulations, compliance, monitoring, enforcement Discovery Provides market information (e.g., about competition, government regulations)

• marketspace

A marketplace in which sellers and buyers exchange goods and services for money (or for other goods and services), but do so electronically.

- E-MARKETPLACE COMPONENTS AND PARTICIPANTS
 - Customers
 - Sellers
 - Products and services
 - digital products

Goods that can be transformed to digital format and delivered over the Internet.

– Infrastructure

– front end

The portion of an e-seller's business processes through which customers interact, including the seller's portal, electronic catalogs, a shopping cart, a search engine, and a payment gateway.

– back end

The activities that support online order fulfillment, inventory management, purchasing from suppliers, payment processing, packaging, and delivery.

– intermediary

A third party that operates between sellers and buyers.

• disintermediation

Elimination of intermediaries between sellers and buyers.

- TYPES OF E-MARKETPLACES
 - Private E-Marketplaces
 - sell-side e-marketplace

A private e-marketplace in which one company sells either standard and/or customized products to qualified companies.

buy-side e-marketplace

A private e-marketplace in which one company makes purchases from invited suppliers.

- Public E-Marketplaces

• Webstore (storefront)

A single company's Web site where products or services are sold and usually has an online shopping cart associated with it. Many Webstores target a specific industry and find their own unique corner of the market.

• ELECTRONIC MALLS AND LARGE RETAILERS – e-mall (online mall)

An online shopping center where many online stores are located.

• TYPES OF STORES AND MALLS

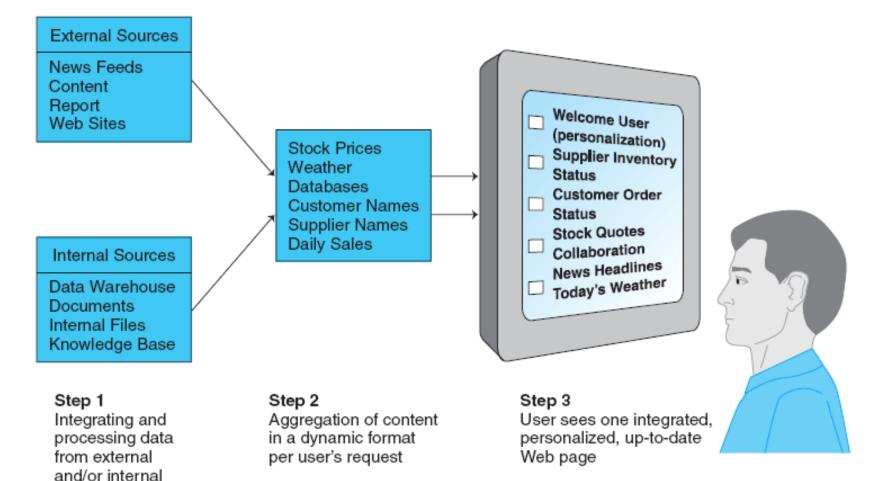
- General stores/malls
- Specialized stores/malls
- Regional versus global stores
- Pure-play versus click-and-mortar stores

• Web (information) portal

A single point of access, through a Web browser, to critical business information located inside and outside (via Internet) an organization.

EXHIBIT 2.5 How a Portal Works

sources



• Types of Portals

- Commercial (public) portals
- Corporate portals
- Publishing portals
- Personal portals
- mobile portal

A portal accessible via a mobile device.

voice portal

A portal accessed by telephone or cell phone.

– Knowledge portals

- THE ROLES AND VALUE OF INTERMEDIARIES IN E-MARKETPLACES
 - Brokers
 - Buy/sell fulfillment
 - Virtual mall
 - Metamediary
 - Comparison agent
 - Shopping facilitator
 - Matching services

infomediaries

Electronic intermediaries that provide and/or control information flow in cyberspace, often aggregating information and selling it to others.

– e-distributor

An e-commerce intermediary that connects manufacturers with business buyers (customers) by aggregating the catalogs of many manufacturers in one place—the intermediary's Web site.

• electronic catalogs (e-catalogs)

The presentation of product information in an electronic form; the backbone of most e-selling sites.

EXHIBIT 2.6	Comparison of Online Cata Catalogs	alogs with Paper
Туре	Advantages	Disadvantages
Paper catalogs	 Easy to create without high technology Reader is able to look at the catalog without computer system More portable than electronic 	 Difficult to update changed product information promptly Only a limited number of products can be displayed Limited information through photographs and textual description is available No possibility for advanced multimedia such as animation and voice
Online catalogs	 Easy to update product information Able to integrate with the purchasing process Good search and comparison capabilities Able to provide timely, up-to-date product information Provision for globally broad range of product information Possibility of adding on voice and animated pictures Long-term cost savings Easy to customize More comparative shopping Ease of connecting order processing, inventory processing, and payment processing to the system 	 Difficult to develop catalogs, large fixed cost Need for customer skill to deal with computers and browsers

- EC SEARCH ACTIVITIES, TYPES, AND ENGINES
 - Types of EC Searches
 - Internet/Web Search
 - enterprise search

The practice of identifying and enabling specific content across the enterprise to be indexed, searched, and displayed to authorized users.

• desktop search

Search tools that search the contents of a user's or organization's computer files, rather than searching the Internet. The emphasis is on finding all the information that is available on the user's PC, including Web browser histories, email archives, and word processed documents, as well as in all internal files and databases.

search engine

A computer program that can access databases of Internet resources, search for specific information or key words, and report the results.

- Software (Intelligent) Agents
- Voice-Powered Search

• electronic shopping cart

An order-processing technology that allows customers to accumulate items they wish to buy while they continue to shop.

– Product Configuration

auction

A competitive process in which a seller solicits consecutive bids from buyers (forward auctions) or a buyer solicits bids from sellers (backward auctions). Prices are determined dynamically by the bids.

- TRADITIONAL AUCTIONS VERSUS E-AUCTIONS
 - Limitations of Traditional Offline Auctions
 - electronic auctions (e-auctions)

Auctions conducted online.

• INNOVATIVE AUCTIONS

• dynamic pricing

Prices that change based on supply and demand relationships at any given time.

• TYPES OF AUCTIONS

- One Buyer, One Seller
- One Seller, Many Potential Buyers
 - forward auction

An auction in which a seller entertains bids from buyers. Bidders increase price sequentially.

- One Buyer, Many Potential Sellers

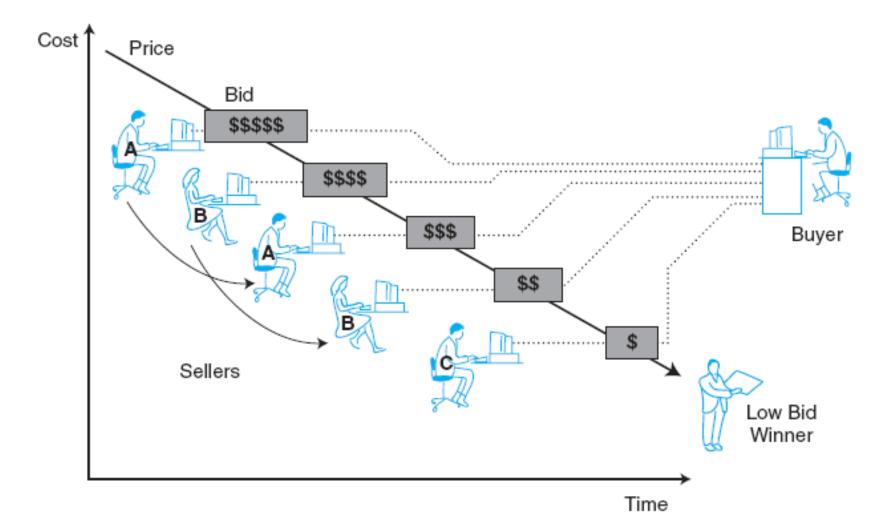
• reverse auction (bidding or tendering system)

Auction in which the buyer places an item for bid (tender) on a request for quote (RFQ) system, potential suppliers bid on the job, with the price reducing sequentially, and the lowest bid wins; primarily a B2B or G2B mechanism.

name-your-own-price model

Auction model in which a would-be buyer specifies the price (and other terms) he or she is willing to pay to any willing and able seller. It is a C2B model that was pioneered by Priceline.com.

EXHIBIT 2.7 The Reverse Auction Process



- Many Sellers, Many Buyers

double auction

An auction in which multiple buyers and their bidding prices are matched with multiple sellers and their asking prices, considering the quantities on both sides.

EXHIBIT 2.8 Benefits of E-Auctions

Benefits to Sellers

- Increased revenues from broadening bidder base and shortening cycle time. Can sell anywhere globally.
- Opportunity to bargain instead of selling at a fixed price. Can sell any time and conduct frequent auctions.
- Optimal price setting determined by the market (more buyers, more information).
- Sellers can gain more customer dollars by offering items directly (saves on the commission to intermediaries; also, physical auctions are very expensive compared with e-auctions).
- Can liquidate large quantities quickly.
- Improved customer relationship and loyalty (in the case of specialized B2B auction sites and electronic exchanges).

Benefits to Buyers

- Opportunities to find unique items and collectibles.
- Entertainment. Participation in e-auctions can be entertaining and exciting.
- Convenience. Buyers can bid from anywhere, even with a cell phone; they do not have to travel to an auction place.
- Anonymity. With the help of a third party, buyers can remain anonymous.
- Possibility of finding bargains, for both individuals and organizations.

Benefits to E-Auctioneers

- Higher repeat purchases. Jupiter Research (*jupiterresearch.com*) found that auction sites, such as eBay, tend to garner higher repeat-purchase rates than the top B2C sites, such as Amazon.com.
- High "stickiness" to the Web site (the tendency of customers to stay at sites longer and come back more often).
 Auction sites are frequently "stickier" than fixed-priced sites. Stickier sites generate more ad revenue for the e-auctioneer.
- Easy expansion of the auction business.

Limitations of E-Auctions

- Minimal Security
- Possibility of Fraud
- Limited Participation

Impacts of Auctions

- Auctions as a Social Mechanism to Determine a Price
- Auctions as a Highly Visible Distribution Mechanism
- Auctions as an EC Component in a Business Model
- Auctions for Profit for Individuals

• bartering

The exchange of goods and services.

– e-bartering (electronic bartering)

Bartering conducted online, usually in a bartering exchange.

bartering exchange

A marketplace in which an intermediary arranges barter transactions.

ONLINE NEGOTIATING

WEB 2.0 TOOLS AND SERVICES: FROM BLOGS TO WIKIS TO TWITTER

BLOGGING (WEBLOGGING)

– blog

A personal Web site that is open to the public to read and to interact with; dedicated to specific topics or issues.

- vlog (or video blog)

A blog with video content.

- Building Effective Blogs

WEB 2.0 TOOLS AND SERVICES: FROM BLOGS TO WIKIS TO TWITTER

microblogging

A form of blogging that allows users to write messages (usually up to 140 characters) and publish them, either to be viewed by anyone or by a restricted group that can be chosen by the user. These messages can be submitted by a variety of means, including text messaging, instant messaging, e-mail, MP3, or just on the Web.

WEB 2.0 TOOLS AND SERVICES: FROM BLOGS TO WIKIS TO TWITTER

- Twitter

A free microblogging service that allows its users to send and read other users' updates.

- tweets

Text-based posts up to 140 characters in length posted to Twitter.

- Commercial Uses of Blogs
- Potential Risks of Corporate Blogs

WEB 2.0 TOOLS AND SERVICES: FROM BLOGS TO WIKIS TO TWITTER

• MECHANISM AIDS FOR WEB 2.0 TOOLS: TAGS, FOLKSONOMY, AND SOCIAL BOOKMARKS

– tag

A nonhierarchical keyword or term assigned to a piece of information (such as an Internet bookmark, digital image, video clip, or any computer document).

WEB 2.0 TOOLS AND SERVICES: FROM BLOGS TO WIKIS TO TWITTER

folksonomy (collaborative tagging, social classification, social indexing, social tagging)

The practice and method of collaboratively creating, classifying, and managing tags to annotate and categorize content.

social bookmarking

Web service for sharing Internet bookmarks. The sites are a popular way to store, classify, share, and search links through the practice of folksonomy techniques on the Internet and intranets.

WEB 2.0 TOOLS AND SERVICES: FROM BLOGS TO WIKIS TO TWITTER

• wiki (wikilog)

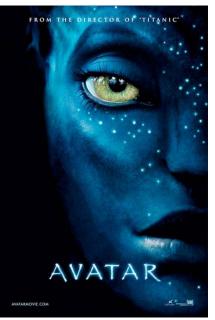
A blog that allows everyone to participate as a peer; anyone may add, delete, or change content.

• SOCIAL NETWORK SERVICES

VIRTUAL WORLDS AS AN ELECTRONIC COMMERCE MECHANISM

• Avatars

Animated computer characters that exhibit humanlike movements and behaviors.



Source: http://genkiboy83.pixnet.net/blog/category/1374257

Copyright © 2011 Pearson Education, Inc. Publishing as Prentice Hall

BUSINESS ACTIVITIES AND VALUE IN VIRTUAL WORLDS

- 1. Creating and managing a virtual business
- 2. Conducting regular business activities
- 3. Providing services for those who build, manage, or make money with virtual properties

MANAGERIAL ISSUES

- 1. Should we auction?
- 2. Should we barter?
- 3. How do we select merchant software?
- 4. How can we use Web 2.0 tools?
- 5. Shall we take part in virtual worlds?

References

• Turban et al., Introduction to Electronic Commerce, Third Edition, 2010, Pearson