Strategic Computing and Communications Technology

> CS 294, EE 290X, IS 290, BA 296 Spring 98

Pricing Information

EECS/BA/SIMS 296 Spring 1998

Britannica v Encarta

- Britannica: 200 years, \$1,600 for set
- 1992: Microsoft purchased Funk & Wagnalls to make Encarta
- Britannica response
 - online subscription at \$2,000 per year
 - sales dropped 83% between 1990 and 1996
 - online subscription at \$120
 - CD for \$200, since 1996 \$70-\$125

Production costs

- · First-copy costs dominate
 - sunk costs not recoverable
- Variable costs small; no capacity constraints – Microsoft has 92% profit margins
- Significant economies of scale
 - marginal cost less than average cost
 - declining average cost

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Implications for market structure

- Cannot be "perfectly competitive"
- 2 sustainable structures – dominant firm/monopoly
 - differentiated product
- ...and combinations of above

Strategy

• What to do

- Dominant firm: cost leadership
 - look for channels and resale to reduce AC
- Differentiated products: differentiate to add value

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Commoditized information

- · CD ROM phonebooks
- 1986: Nynex charged \$10,000 per disk for NY directory
- ProCD and Digital Directory Assistance
- Chinese workers at \$3.50 daily wage
- Bertrand competition
 - start at \$200 each
 - price forced to marginal cost

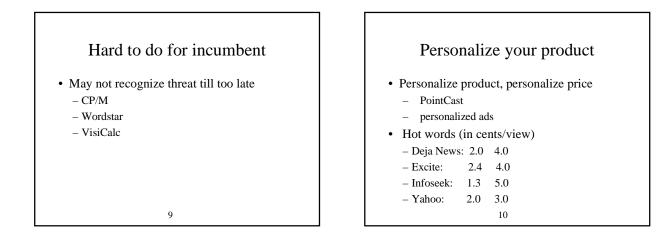
If you are in commodity business

- · Cost leadership
- Sell the same thing over again
 - Baywatch, Reuters
 - reduces average cost
- First-mover advantages
 - avoid greed
 - respond to threat quickly and decisively
 - limit pricing; highly credible with high FCs 7
 - play tough

Differentiate product

- · Bigbook and maps
- West Publishing and page numbers
- Copyright and content
 - protects expression, not ideas
 - imitation as a strategy
 - constant innovation (search engines)

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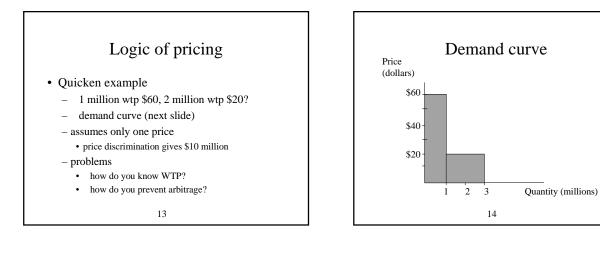
Know your customer

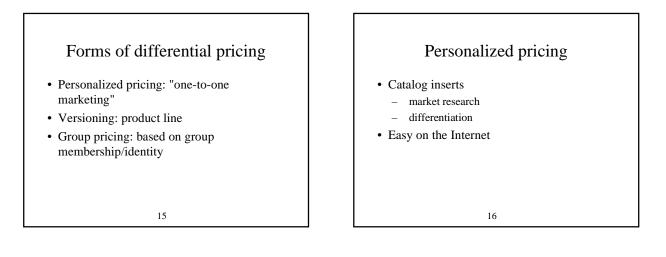
- Registration
 - required: NY Times
 - billing: Wall Street Journal
- AOL's ace in hole: ZAG
- Know your consumer
 - queries
 - clickstream

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Clickstream

- interest and how long you look
- connectionless nature of HTTP
- Java as possible solution
 - Peapod
 - Virtual Vineyards
 - optimized browsers



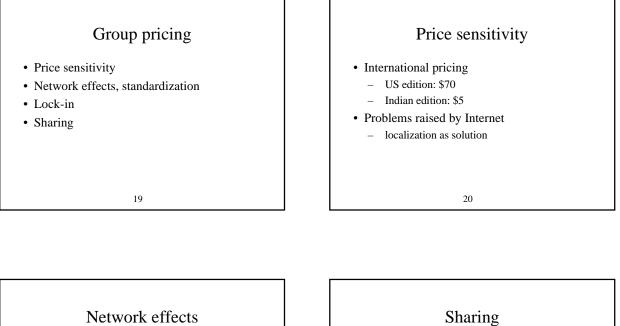


Traditional industries

- Airlines
- Direct mail
- Lexis/Nexis
- Supermarket scanners
 - profit margin more than doubled 1993-1996
 - more effective than other forms of advertising

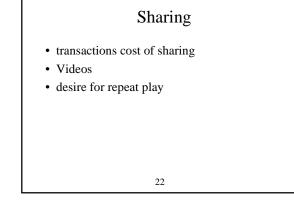
Internet

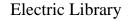
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- Virtual VineyardsAuctions
- Closeouts, promotions



- Compatibility
 - site licenses
 - variety of schemes: per client, per user, per server, etc.
- Lock-in
 - Newspapers-in-education
- Microsoft Office: per seat, concurrent

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- who to sell to?
- households
- schools/libraries

Summary

- Understand cost structure
- Commodity market:be aggressive, not greedy
- Differentiate product and price
- Understand consumer
- Personalize products and prices
- Consider selling to groups