Personalization of Digital Information Services

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Outline

- Industrial Society vs. Information Society
- Collection management
- Disintermediation
- Personalization of digital information services
- Issues
- Conclusion
Production Factors

- Labor
- Capital
- Knowledge

- Labor + material = economic success

- Material and service management is most important in the Industrial Society
Industrial Society

✦ Mass production
  – Standardized goods and services
  – “Any customer can have a car painted any color that he wants, as long as it’s black” (Henry Ford)

✦ Mass distribution
  – Newspapers, radio-TV, etc.

✦ Competition
  – In US: 260 different brands of cars, 87 colas, 3000 beers, 340 cereals, 50 bottled water, etc.

✦ “Make, store, sell” (Mitchell M. Tsang)

✦ “The Age of the Terrific Deal”: “as you want them”, “from anywhere”, “at the best price and highest quality” (Robert R. Reich)
Organization in Industrial Society

- Based on mass production and mass distribution
- “Mechanistical organization”
- “Continuous development”
- Traditional education and training
- Rigid / hierarchical administration
- Economic models based on centralization
Knowledge . . .

- “None of the sources that are used to create wealth is as important as knowledge.”
- Knowledge → “lifeblood of development”
- Knowledge → the *sine qua non* of competition
Information Society

- “... pre-automation technology yields standardization, while advanced technology permits diversity.”
- “Unstandardized” goods and services (Toffler, 1970s)
- Cheaper to produce personalized goods and services using advanced IT: “... as technology becomes more sophisticated, the costs of introducing variations declines” (Toffler 1970, p. 236)
- “Sell, make, deliver” (Mitchell M. Tsang)
Organization in Information Society

- Based on mass customization and personalization
- Mass customization is an indication of a rich and complex society.
- “Dynamic organization”
- Customer focused education / continuous education
- Loose / horizontal administration
- Economic models based on customization
Customization / Personalization

✦ Customization
  – Changing or customizing goods and services according to customers’ needs

✦ Personalization
  – “...selecting and filtering information objects or products for an individual by using information about the individual.” (Koch, Möslein, Schubert, 2002):
Information Services & Internet

- Removal of temporal and spatial barriers
- Provision of information services to remote users (24X7)
- “Instant gratification”
Collection Management

- Increasing costs of information sources
- One source – one user → One source – multiple users
- “Ownership vs. access”
- Ownership dictates use of centralized information management models
- Budgets devoted to electronic information resources increasing (%15-%20)
- Cooperative/consortial collection management practices
Increasing Costs

Graph 2

Serial Unit Cost (+226%)
Serial Expenditures (+192%)

Monograph Unit Cost (+66%)
CPI (+57%)
Serials Purchased (-7%)
Monographs Purchased (-17%)

Collection Manager’s Responsibilities

- Separate policies of licensing, processing, maintenance, storage and usage
- “Interdependence” on other information centers, library consortia, information producers/providers and aggregators
Disintermediation

- Intermediation
  - requires centralization
  - is expensive
  - usually means long lines
  - doesn’t serve remote users
- IT makes information management less centralized, more distributed
- Disintermediation
- Increase in interlibrary borrowing transactions
- Decrease in reference and circulation transactions
Impact of Remote Access

Graph 1

- Interlibrary loan (97%)
- Reference transactions (-12%)
- Total circulation (-6%)

Personalization of Information Services

- Explicit / implicit personalization
- Active / passive personalization
- Personalization of display environment
- Personalization of collections / content
- Personalization of services
Welcome back, Debby!

Enjoy two days of readings and book signings during University Authors Days, January 30 and 31, 2001, in the D. H. Hill Library.

The NCSU Libraries is celebrating the career of N.C. Commissioner of Agriculture Jim Graham with an exhibit in the D. H. Hill Library and a virtual exhibit.

Research Library of the Future Panel Discussion: Join a panel of faculty, students, and administrators at a brown bag lunch to discuss this topic, Feb. 8, 11:15 A.M. to 12:45 P.M., Faculty Senate Chambers, D. H. Hill Library.

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It's time to make plans for the ALA Midwinter Meeting 2001 if you haven't done so already! This year's meeting runs from January 12-17, 2001, in Washington, D.C.

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Theme: Instruction in Science and Technology Libraries

Collaborative Instruction by Writing and Library Faculty: A Two-Tiered Approach to the Teaching of Scientific Writing
by Deborah Huerta and Victoria E. McMillan, Colgate University

Library Instruction in an Interdisciplinary Environmental Studies Program: Challenges, Opportunities, and Reflections
by Laurie A. Kutner, University of Vermont

Promoting Information Literacy for Science Education Programs: Correlating the National Science Education Content Standards with the Association of College and Research Libraries Information Competency Standards for Higher Education
by Jennifer Laherty, California State University, Hayward

Designing and Delivering a Public Health Informatics Course
by William Olmstead and Cola G. Hennigan, Texas A&M University
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Password: **********
Go

» Get a PID
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» To use this site you must have a current browser like Internet Explorer 5+ or Netscape 6+.

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Current Conditions: Fair, 25°F
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Personalized Information Services

- Portals
- Personal banking services
- On-demand publishing, on-demand video
- Automatic current awareness, ToC services
- Electronic document delivery
- “desktop librarian” (www.liveperson.com)
- Recommender systems (e.g., amazon.com)
- Information agents
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My Front Page My Other Page
Add Page - Options

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Bush Reaches Out to Blacks, Honors King
Personalization & Alerting to be Added to ISI Web of Knowledge

Philadelphia, PA USA November 25, 2002 — Today, Thomson ISI announced that personalization and alerting will be added to the ISI Web of KnowledgeSM platform in 2003. With the personalization feature, users will be able to save search strategies on their desktop or on the ISI Web of Knowledge server. Search strategies saved on the ISI Web of Knowledge server can be retrieved by users who have access to ISI Web of Knowledge from within an institution, or from any remote location where they can get access to the library’s services. An alert management page will allow users to quickly change search and alert options, and a personal journal list feature will offer seamless integration between ISI Web of Knowledge and the most recent journal table of contents information in ISI Current Contents Connect®.

Initially, the alerting enhancement will be made available through ISI Current Contents Connect and ISI Web of Science®—two pre-eminent resources within the ISI Web of Knowledge platform. Additional resources will be equipped with this powerful new alerting feature during 2003. The new alerting feature will allow users to receive results of a search via email. The alerts are delivered in a format preferred by the user, including HTML and ISI ResearchSoft tagged files. Each alert will include a link to the related bibliographic record and the full-text of the journal literature.

“Introduced this year, ISI Web of Knowledge is the single Web-based environment from which users can access, analyze and manage essential research information,” explained Jim Pringle, ISI Vice President of Development for Electronic Products. “We are excited to continue to enhance our platform to provide the latest tools and resources to our customers.”
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Paperback 128 pages (24 September, 1999)

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Personalization Issues I

- Standard content is offered to all users
- Recognize users when they log on and personalize the content based on their rights and privileges
- Providing information services using “pull” and “push” technologies
- Personalized electronic books
- Need to move from “resource-centric” approach to “relationship-centric” approach
Personalization Issues II

- Difficult to implement in a distributed environment
- Network infrastructure
- Security & privacy concerns
- Interoperability
  - with library automation systems, student information systems, financial systems, etc.
  - With e-banking, e-commerce, e-health, e-government, e-(l)earning systems
- More sophisticated budgeting, pricing, use and training models
Conclusion

- Transform information services and make them available through distributed networks
- Abandon “one-size-fits-all” approach and emphasize “relationship-centric” approach
- Instant gratification is only possible with instant access to personalized information sources and services
- If not satisfied with remote and personalized information services, users may ignore information centers altogether and “take their business elsewhere”
Personalization of Digital Information Services

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