

CHAPTER V



PRESENTATION

The study was presented on the 12nd of December 2000. I present the main concept of the study, which contained 3 parts: the rationale of the study, the data collection exercise and the proposal.

The first step, I did need assessment to find out the problem (Data exercise Part). The second step, is cause of the problem, which I used to support my rationale of the study. The result of this step found that factors obstructing the use of Information services are limitation on distance, opportunity, cost and time. The third step is the intervention process to solve the problem (Proposal Part).

The PowerPoint was prepared and used for the presentation. The contents of the presentation are shown below, in the sequence as shown to the examination committee.

Presentation by:

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Thesis Title:

**The Development of Computer Aided
 Instruction (CAI) on CD-ROMs for
 Learning at the Workplace Program (LWP)
 : the College of Public Health,
 Chulalongkorn University**

Rational of the Study

- Learning program of the College of Public Health
 - Regular program
 - Learning at the Workplace Program (LWP)
- Dissemination of information is the way in knowledge transfer (Charas Suwanwela, 1997)
- CDs offer access to large amounts of information to learners who may be unable visit libraries caused of distance (Dorman, 1997)
- CAI is rapidly becoming one of the most influential media of instruction in educational environments (Schulz & Ross, 1999)
- Primary data from situation analysis found that distance was a major factor obstacle for accessing information provided by the Information Center of the College

Objective of Situation Analysis

- To identify the information needs and satisfaction level of students for information services development
- To set the priorities of services in the Information Center of the College

- Dissemination methods : 5 methods (Valls, 1983)
 1. Publications (Books, bulletins, journals etc.)
 2. Audio-visual tools (Slide, Cassettes etc.)
 3. Reprographic services
 4. Reference & referral services
 5. Direct technology transfer activities
- Use CD_s for disseminating information can enhance computer literacy and the ability to manage electronic information, an increasingly important life and vocational skills (Dorman, 1997)

Situation Analysis:

**“Need Assessment and priority setting
 of Accessing Information Services for
 Students of the College of Public
 Health, Chulalongkorn University”**

Results:

- **In-house students (n=8)**
 - 50 % used the services provided (5-6 times/week)
 - 25% used the services provided (1-2 times/week)
 - 25% used the services provided (3-4 times/week)
- **LWP students (n=53)**
 - 34% used the services provided (1-2 times/week)
 - 66% have never used

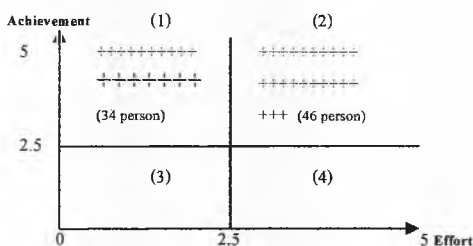
Factor obstructing the use of Information Center Services

- Limitation on distance
- Limitation on time
- Limitation on opportunity
- Limitation on finance

The Priorities of Services		
Services	Mean	
	In-house Student) n=8	LWP (Student) n=53
• Program for tutoring by using audiovisual materials	3.00	2.00
• computer - based learning & multimedia	3.25	2.45
• Sharing information	3.75	2.67
• Accessing information from multiple Sources; CD-ROM Internet, University Library Network	4.37	3.05
• Full text from aboard	3.00	2.66

Source : Data exercise, 1998

Information Needs & Satisfaction Level Degree of Achievement VS Effort

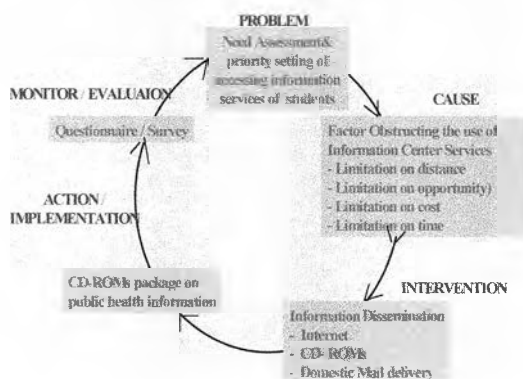


Note : + = 2 person
Source : Data Exercise, 1998

Goal and Objectives

- To develop an interactive multimedia resource, the Computer Aided Instruction (CAI) on CD-ROM, to be used by LWP students
- To evaluate an interactive multimedia resource, the Computer Aided Instruction (CAI) on CD-ROM, in real cases

MODEL OF THE STUDY (Modified from the Technology assessment iterative loop : Tugwell et al, 1995)



What is CD-ROMs?

CD-ROM stands for *Compact Disk Read Only Memory*.

A CD-ROM is an optical disk onto which data has been written via a laser. It can contain text, sound, pictures and motion video.

A CD-ROM drive is essential for running multimedia applications. A CD-ROM can store up to 650 megabyte of information. CD-ROMs are the commonest storage media for multimedia applications. (Davies, 2000)

(Source: http://www.ict4t.org/en/en_mod2.2.htm: Access on Aug., 8 2000)

Why is CD-ROMs?

- Strength**
- Portable & convenient
 - Low cost (inexpensive materials for education Farina, 1995)
 - Can not change information
 - It is easy to develop becoming to network products
 - Ease of access
 - Allow large amount of text, graphics, picture & movies
- Weakness**
- Can not change information (It can be outdated information)
 - The limitation of disk density
 - The quality of disk
 - Not interactive media

But appropriate for the limitation on

- distance (Dorman, 1997)
- cost
- organizational policy
- access to network system

METHODS

- **First phase “Developing the CD-ROM”**
- **Second phase “Evaluation of the CD-ROM”**

The contents will be contained in CAI on CD-ROMs

- Part I : CAI on CD-ROMs
“How to access public health information sources”
 - INTERNET
 - Online Public Access Catalogue
 - Exercise for testing the understanding on the content
- Part II : Presentation on CD-ROMs
 - CPH Thesis
 - CPH Research report
 - Books
 - Current content on subscribed journal

PRODUCTION STEP

1. Pre-production
 - Review related literature & collect information
 - Design concept of the content
 - Define the objective of the content
 - Prepare story board

Phase II: Evaluation the CD-ROM

1. **Testing the CD-ROM in this case (+instruction), covered the following areas:**
 - installation problem
 - screen design
 - content
 - after using CD-ROM 2-3 months (evaluation questionnaire)
2. **Adjustment of the CD-ROM**
3. **Continue testing**

Phase I: Developing the CD-ROM

- **CONTENTS**
- **PRODUCTION STEP (CAI on CD-ROM)**

- Part III : Links to other sources of information
 - Many other Internet sites such as those operated by the World Bank, WHO, Universities, Research Institutes etc.
- Part IV: How the Information Center can assist you when you want to receive the information?
 - Instruction how to contact information center staff

2. Production

- Assign the relevant picture to the content & scan the content in digital format
- Compress digital content in CD disk
- Test the CAI on CD-ROM
- Adjusting the CD-ROM
- Construct manuals

Expected outcome

- An interactive multimedia resource (CAI on CD-ROM package) on how to search more effective on public health information for LWP students
 - Encourage LWP students more self-learning with media.
- Receive more information on public health information provided by the Information center of the college.

- The result after implementing CAI on CD-ROMs, will be necessary to validate any judgment about the effectiveness of the information and the library service in supporting learning & teaching.

Recommendation for the proposal

- Human resources development for the College Staff to be

- Content expert
- Media expert
- Programmer

- Closer collaboration of information center staff, academic staff and LWP students in developing learning tools

Thank you

- Professor Dr. Chitr Sithi-amorn
- Ajarn Vibhawarn Manunapichu
- All ajarn
- CPH staff
- College of Public Health
- Students