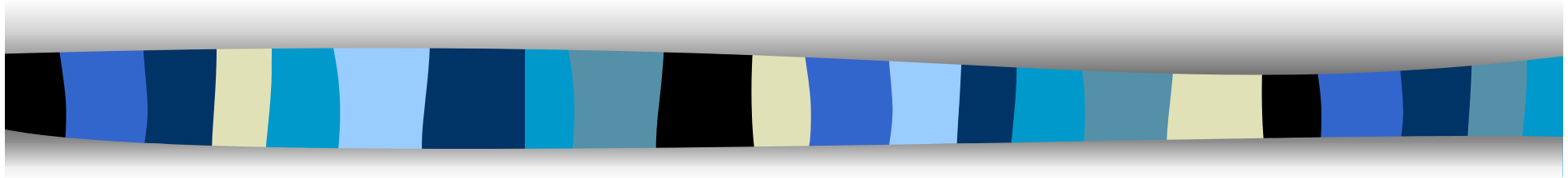


DEVELOPMENT OF DIGITAL LIBRARY



By

Dr.Kanchit Malaivongs

National Science and Technology Development Agency

August 14, 2000



AGENDA

■ DIGITAL LIBRARY INITIATIVE

■ DEVELOPMENT METHODOOOGY

■ DEVELOPMENT STRATEGIES

■ CASE STUDIES

■ SUMMARY



DIGITAL LIBRARY INITIATIVE I

- **In 1990's we saw a lot of development in multimedia, Internet, and World Wide Web.**
- **These technologies have changed the way we use and disseminate information.**
- **Library limitations due to space and time has been removed.**



DIGITAL LIBRARY INITIATIVE II

- **Internet has become the network of invaluable information resources.**
- **Book and magazine publishers, book stores, music and video sellers, see opportunities to use the Internet for selling their products**
- **Professional associations see the Internet as a means to disseminate information and exchange discussions.**



DIGITAL LIBRARY INITIATIVE III

- **Universities and libraries plan to renovate their services through the Internet**
- **Archived materials are digitized**
- **Search engine is developed**
- **Proper interfaces are created**
- **Membership program is considered and planned**



DIGITAL LIBRARY INITIATIVE IV

- **Libraries are facing critical problems**
- **Increasing prices of materials**
- **Increasing costs of staff**
- **Higher pressure on IPR issues**
- **Demand of users around the world**



DEVELOPMENT METHODOLOGY

■ Understand users and requirements

■ Set objectives

■ Decide on contents and forms

■ Decide on interface

■ Pilot test

■ Implementation



UNDERSTAND USERS

- **Determine who are the users**
- **Study the usage environment**
- **Study/Observe how users use the library**
- **Find out the level of experiences and skills of the users**
- **Find out what kinds of contents are needed**



REQUIREMENT DEFINITIONS

- **What do users want?**
- **What periods of time are needed?**
- **What kinds of materials are expected?**
- **What levels of details are to be searched?**



OBJECTIVES

- **Determine what kinds of services to provide**
- **Determine the range of users**
- **Determine the wide range of information needs**
- **Help users link among items across different collection**
- **Help users distinguish between primary and secondary materials**



OBJECTIVES

- **Indicate what materials can be found internally and what must be externally linked.**
- **Develop an easy interface**
- **Develop technique for multimedia search**
- **Allow users to search across collections**