



Building Digital Resources in Vietnam Academic Libraries

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Needs building & developing DR in Vietnam

- The transforming from network centric to content centric focus in the world
- Concerns of the Vietnam Government to the DR development in the library system.
- Vietnam ICT develops quickly
 - More than 18 millions Internet users - equal 21.6% population (2007 statistics).
 - VINAREN is high speed nation-wide network
- Strong renovation in training & researching
 - Credit based training
 - international standard training
- The change in habit & skill of accessing information
- The lack of Vietnamese language electronic resources



Situation of DR building in Vietnam Academic library system

- General situation
 - Just started in some major libraries
 - Simple IT resolution. Standard still low.
 - Lack of legal document
 - Digitizing activity is still in small-scale & spontaneous, without unified guidance and rational arrange
 - Copyright & intellectual property have not been paid enough attention.



Results and orientation in some libraries

- Library & Information Center, VNU
 - Result
 - Bibliographic databases of books, periodicals.
 - Abstract databases of thesis, dissertations, research works, serial citation, proceeding
 - Full-text databases of rubbers, books & textbooks, lecture notes.
 - Orientation
 - Digitizing full text of thesis & dissertation; research works & textbooks.
 - Technology used:
 - Learning Object by SCORM standard
 - Structure & catalog by DUBLIN CORE 2+
 - KIRTAS machine
 - Greenstone software



Results and orientation in some libraries

- VNU HCM City Library system
 - Central Library
 - DSpace software is used to digitize materials
 - Going to build Vietnamese language Full-text of text books, proceedings and local journals.
 - Signing contract with publishers for copyright to digitize books
 - Library, College of Natural Science
 - Using Greestone.
 - Bibliographic database
 - Full-text databases in text, HTML, PDF, Multimedia formats
 - Multi-subject Digital collection
 - Library, College of Social Science & Humanities
 - Using integrated library system LIBOL
 - Pilot complicated format (image-text) support reading images & finding content at the same time
 - Digitizing materials by scanning OMISCAN using Identifying software VNdore, Omipage



Results and orientation in some libraries

- Thainguyen Learning Resource Center
 - Using Greenstone to digitize textbooks, thesis, dissertations.
 - Lecture notes
 - Plan to complete digitizing the whole textbooks collection of Thainguyen University, using budget from three different sources: AD stable development program, Government & library.
- Danang Learning Resource Center
 - Using DOTnet software
 - Trying to use Greentone and Dspace
 - Products:
 - Thesis & dissertations
 - Folklore collection (text, audio, image)
 - Research works
 - E-textbooks (Ministry of Education & Training curriculum)



Results and orientation in some libraries

- Institute of Social Science Information
 - Products:
 - French collection in PDF format & managed by PMB (France) software for Intrannet
 - News Express on CD-ROM in PDF format
 - Journal of Social Science in PDF format in Vietnam
Journal Online database VJOL (WWW://VJOL.info)
 - Image database in JPEG file.



Resolution for developing DR

- Management
 - Build a national level management unit to direct, regulate, link and unify the digitizing work.
 - Issuing legal document, priority policy, manual and procedure for digitizing activity (special attention should be paid to issues of copyright, & node balancing)
 - Establishing consortium for resource sharing
 - Establishing separate unit for creating & managing DR



Resolution for developing DR

- Human Resources
 - Improving the syllabus on Digital Library course, focusing on DR in colleges & universities.
 - Librarians should be regularly retrained & updated knowledge on DR (procedure, skill of creating & managing DR)



Resolution for developing DR

■ Technology

- Digitizing resolution: using specified machine: Kirtas, 4Digitalbooks, DL-3000 book Scanner...When choosing machine, pay more attention to:
 - Scan Speed
 - Document size
 - Quality of the object
 - processing software (language identification, integration with local software, output format, metadata catalog, etc.
 - Data security and preservation



Resolution for developing DR

Technology

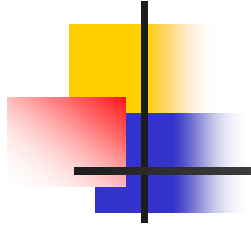
- Resolution for archive, management & distribution: Choosing appropriate technology for financial capacity, staff ability and IT infrastructure. In addition, it should meet the following requirements:
 - Easy & convenient for creating, archiving, copying and accessing.
 - Assigned permission to individual record & user group
 - Flexible accessing for simple & complicated search: search by subject, keywords, fulltext, semantics, ...
 - Easy for resource exchanging & sharing, informing DR to users (email, SMS...)
 - Easy for expanding & integrating
 - Usage statistics & report
 - Support archiving, managing, distributing for all types of materials: text, image, audio, visual
 - Using Streaming media
 - Out put through various types of terminals (PC, Pocket PC, Smart phone, TV)
 - Support Library standard



Resolution for developing DR

■ ICT Infrastructure

- LAN with Gigabit speed, able to connect high speed Internet .
- Strong Server system, able to provide diverse types of services: web, ftp, mail..., and to widen, and node-balance.
- large data storing system (SAN, Storage Access Network)
- Firewall system
- Strong processing & exploiting terminal system.
- Supporting facilities as: scanner; CD-DVD copying, Audio, video processing



Thank you for your attention!