



UP Manila Information Technology Updates 2005



Highlights

- Bandwidth
- Estimated number of computers connected to the network
- Computer to Student Ratio
- Bandwidth to Student Ratio
- Network Components/Nodes
- Computer Laboratories and Access Facilities
- IT Services
- Applications Developed Locally (In-House)
- Current Projects
- Future Projects



Infrastructure

- **Bandwidth:**
 - 256 kbps in 2003
 - 1,024 kbps in 2004
 - 2,048 kbps in 2005
- **Estimated number of computers connected to the network:** 1,100
- **Computer to Student Ratio:**
 - 26.4 in 2003
 - 22.1 in the 1st quarter of 2004.
 - 20 in the middle of 2005



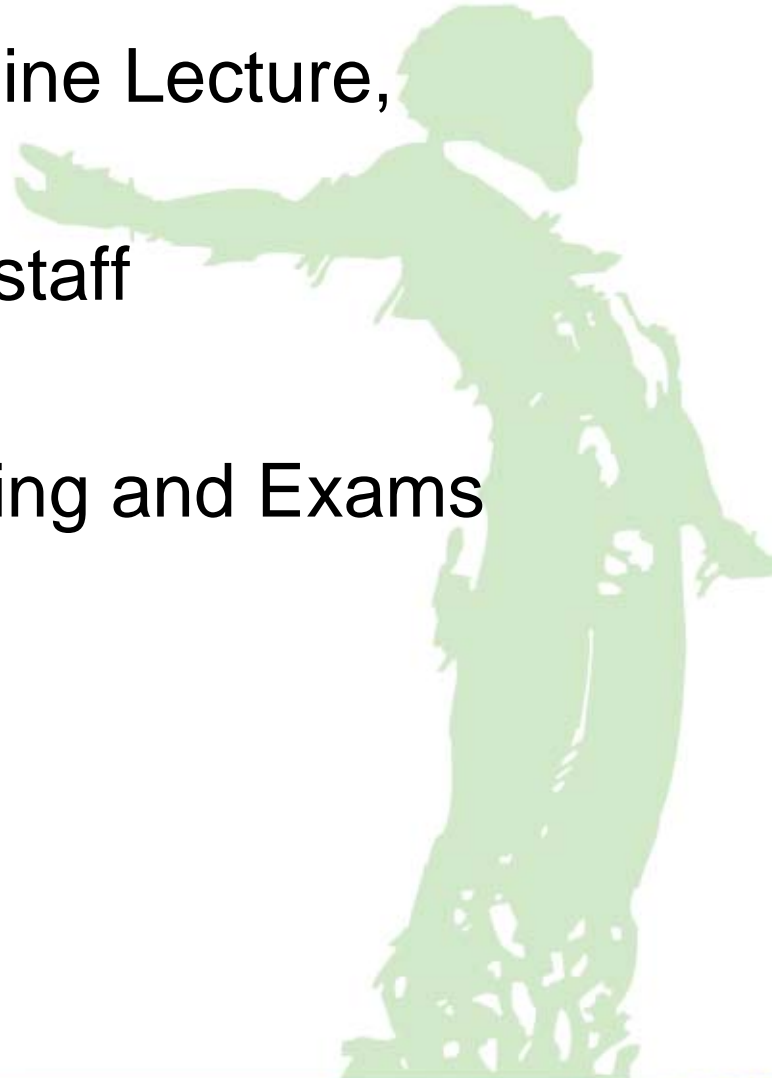
Infrastructure

- **Bandwidth to Student Ratio:**
 - 0.042 kbps in 2003
 - 0.186 kbps in 2004.
 - 0.46 kbps in 2005
- **Network Components/Nodes:**
 - 1,860 data ports; All units connected to the campus fiber optic network backbone
 - 40% has 1 gigabit per second capacity
 - 60% has 100 megabit per second capacity
- **Computer Laboratories and Access Facilities:**
 - Around 270 computers in 11 computer laboratories or access facilities
 - Some of the computer laboratories also functions as public access facilities in addition to computer units at the College Libraries and the University Library.



IT Services

- Video Conferencing, Online Lecture, Webcasting
- Webmail for faculty and staff
- Webhosting
- Computer Literacy Training and Exams
- Bulletin Board System



Applications Developed in UPM

- **Portable Wireless Medical Records (UPCM-MIU)**
- **Blood Bank Information Package (UPCM-MIU)**
- **Community Health Information Tracking System (UPCM-MIU)**
- **Surgical Pathology Registry (UPCM-MIU)**
- **PCSREG (UPCM-MIU)**
- **Integrated Surgical Information System (UPCM-MIU)**
- **HealthCity (UPCM-MIU)**
- **Philippine National Drug Formulary for the Palm (UPCM-MIU)**
- **Online Student Evaluation of Teachers (CAS - DPSM)**
- **Alumni Database with job-placement (CAS - DPSM)**
- **Faculty Database (CAS - DPSM)**
- **Computer-Based Hardware and Software Inventory System**



Current Projects

- Transition/Migration to Open Source
 - Open Source Training and Helpdesk
- Computerized Registration System – Student Records System (CRS – SRS)
- Personnel Data Tracking System (PDTs)
- Design and Implementation of BuddyWorks: Use of Telehealth Network Services in Community Partnership Programs

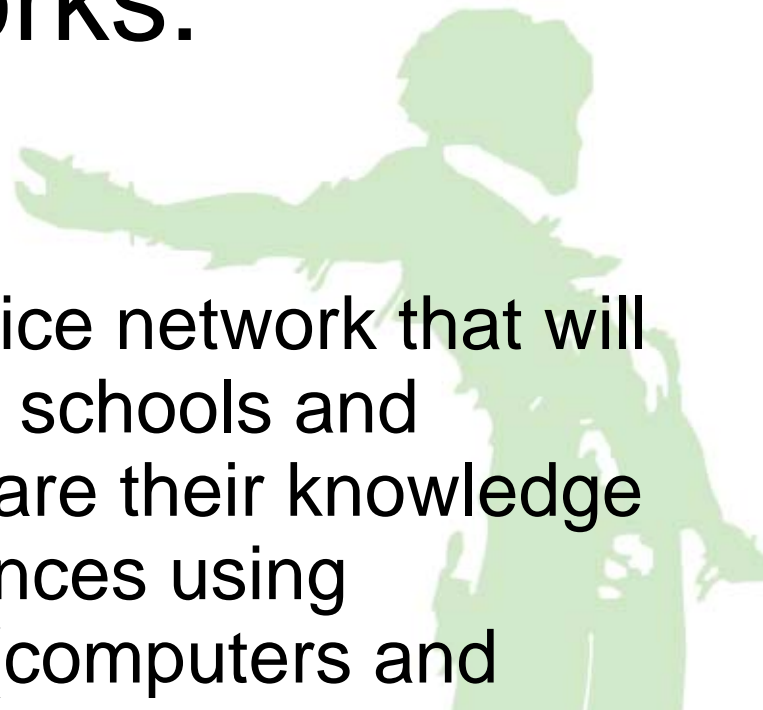


Future Projects

- Philippine National Health Information Infrastructure: Collaboration, Design and Implementation
- Linking of the School of Health Sciences to the UP Manila main campus
- Server upgrades for existing services
- Additional servers for student webmail, webcasting and e-learning
- Installation of Large Network Storage
- Voice over Internet Protocol
- Wireless Hotspots or Access points within the campus
- Re-design of the UP Manila Website



Buddyworks:



- General Objective
 - Create a telehealth service network that will allow medical experts in schools and specialty societies to share their knowledge with doctors in the provinces using information technology (computers and internet)



buddyworks
INFORMATION AND COMMUNICATIONS TECHNOLOGY FOR HEALTH



Buddyworks:

Specific Objectives

1. Design and develop a web site where provincial doctors can upload patient data and discuss with medical experts, and a source of multimedia medical data.
2. Enable physicians based in communities and regional and provincial hospitals to gain access to telehealth services using the telehealth services network.
3. Design and develop CDROM and web-based training modules for community physicians to enable them to use the online telemedicine system.





Data Reviewed by Expert



Opinion Uploaded by Expert



Data Uploaded to Portal



Expert Opinion Accessed



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Current Project Sites:

- UP SHS, Palo, Leyte
- Eastern Visayas Regional Medical Center, Tacloban, Leyte
- Roxas Memorial Provincial Hospital, Roxas City, Capiz
- Mambusao District Hospital, Capiz
- Sigma RHU, Capiz
- MSU College of Medicine, Iligan City
- GT Lluch Memorial Hospital, Iligan City
- Cagayan Provincial Health Office, Tuguegarao, Cagayan
- Cagayan Regional Medical Center, Tuguegarao
- Cagayan State University College of Medicine, Tuguegarao



Current Status

- Networking Connection:
- Internet Connection for three years negotiated contract with PLDT
- For approval of BAC 2
- Estimated implementation: February 2006
- Training: (Completed as of 21 December 2005)
- Basic Introduction to Linux
- Network and System Administration Training
- Basic BuddyWorks Software Training



Future Expansion

- Possibility to apply for expansion funding from 2006 E-Government Fund
- Expressions of Interest from Benguet, Jolo and Leyte Provincial Governments
- In conjunction with PNHII, possibilities for PhilHealth, Private Sector Involvement
- Other projects that can be connected to BuddyWorks, e.g. Remote Monitoring of TB-DOT via Videoconferencing

