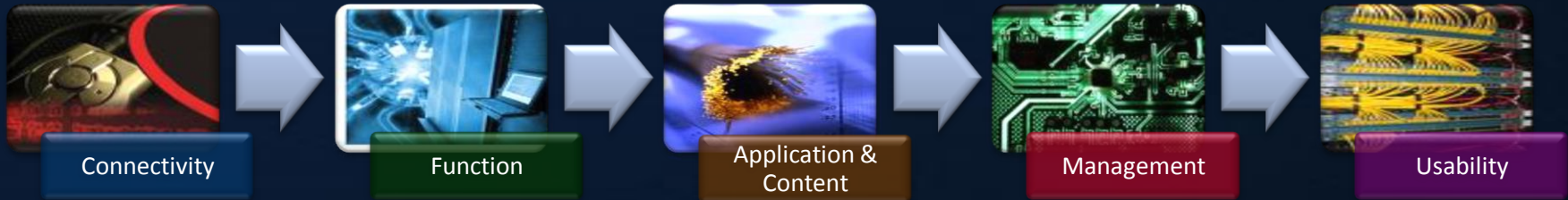


# ICT INFRASTRUCTURE AND IMPLEMENTATION

UPI ICT 2008 Report

Direktorat Teknologi Informasi dan Komunikasi  
Universitas Pendidikan Indonesia

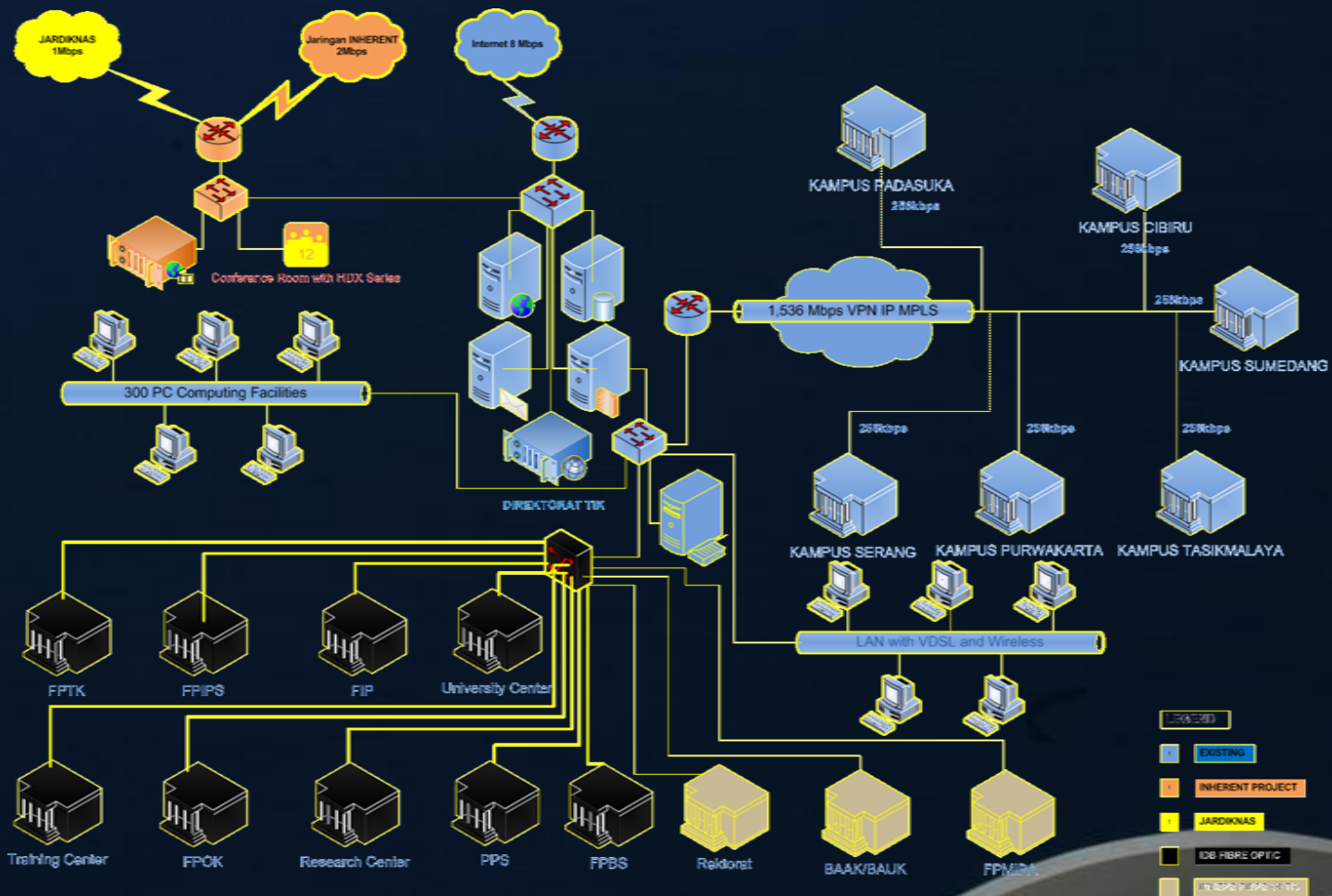
# UPI ICT EXISTING CONDITION



| Connectivity   | Function   | Application & Content  | Management  | Usability   |
|--|--|--|---|---|
| <b>NETWORK BACKBONE</b><br>INTERNET : Fiber Optic (FO)<br>WAN : VPN IP MPLS<br>INTRANET : FO, VDSL, Wireless (Outdoor – Indoor)  | <b>LEARNING &amp; INSTRUCTION</b><br>LEARNING MANAGEMENT SYSTEM (LMS)<br>MULTIMEDIA LEARNING (MLRC)<br>ONLINE SYLABUS<br>ONLINE COUNSELLING<br>DIGITAL LIBRARY | <b>LEARNING &amp; INSTRUCTION</b><br>LMS ( <a href="http://lms.upi.edu">http://lms.upi.edu</a> )<br>MULTIMEDIA ( <a href="http://mlrc.upi.edu">http://mlrc.upi.edu</a> )<br>MAIL ( <a href="http://mail.upi.edu">http://mail.upi.edu</a> )<br>REAL MEDIA SERVER<br>INTERNET ACCESS | <b>ICT ENGINEERING</b><br>INFRASTRUCTURE<br>SOFTWARE<br>TRAINING AND INOVATION  | <b>INTERNET ACCESS</b><br>2006 : 36.583 person<br>2007 : 103.287 person<br>2008 : 94.609 person   |
| <b>BANDWIDHT CAPACITY</b><br>18 Mbps to International link<br>5 Mbps VPNIP for Campus WAN Link<br>1 Mbps from JARDIKNAS (Indonesia National Education Network)<br>24 Mbps / 33.000 Student | <b>ACADEMIC SYSTEM</b><br>STUDENT, COURSE, COLLECTION, LECTURER, EXAMINATION, ALUMNI AND CARIER  | <b>MULTIMEDIA</b><br>DIGITAL MEDIA PRODUCTION STUDIO<br>HIGH DEFINITION VIDEO STUDIO<br>MULTIMEDIA PRODUCTION SOFTWARE<br>MULTIMEDIA TRAINING AND RESEARCH<br>MULTIMEDIA PRODUCTION<br>MULTIMEDIA SERVICES   | <b>ICT SERVICES</b><br>COMPUTER LABS<br>INTERNET ACCESS<br>WEB APPLICATION AND CONTENT<br>SOFTWARE LISENCE<br>TELECOMMUNICATION SERVICE<br>OTHER ICT SUPPORT SYSTEM   | <b>BANDWIDTH USAGE</b><br><a href="http://mrtg.telkom.net.id">http://mrtg.telkom.net.id</a><br><b>WEB ACCESS</b><br><a href="http://www.upi.edu/stat/">http://www.upi.edu/stat/</a> |
| <b>SERVER</b><br>NETWORK: DNS, Proxy, web, Mail<br>DATABASE: Academic, Management<br>APPLICATION: Information, Academic, Management, Communication, Multimedia                             | <b>HRM SYSTEM</b><br>CONVERTION, COMPENSATION, DEVELOPMENT, RECRUITMENTS, MERIT  | <b>RESEARCH AND RESOURCE SHARING</b><br>SINGLE SIGN ON<br>UPI's ICT BLUE PRINT<br>ICT FOR EDUCATION RESEARCH CENTER<br>TRANSFER TECHNOLOGY UNIT<br>ROBOTIC TEAM  | <b>INFORMATION SERVICES</b><br>SIAK (Academic Information System )<br>SIKU (Finance Information System)<br>SIASEF (Asset and Facilities Information System)<br>SISUDAMA (Human Resource Information System)<br>DSS (Decision Support System)<br>e-Kiosk | <b>TRAINING PARTICIPANT</b><br>STUDENT : 307<br>EMPLOYEE : 274<br>PUBLIC : 363  |
| <b>WORKSTATION</b><br>COMPUTER LABS: 14 unit<br>PC COMPUTER :2284 unit   | <b>ASSET &amp; FACILITIES SYSTEM</b><br>PROCUREMENT, INVENTORY, DISTRIBUTION, UTILIZATION, CONTROL, MAINTENANCE, CONVERTION                                    | <b>MANAGEMENT</b><br>ACCESS CONTROL SYSTEM (ACS)<br>BANDWIDTH MANAGEMENT<br>TRAFIC MANAGEMENT SYSTEM *<br>ASSET PROTECION SYSTEM*<br>SECURITY SYSTEM*<br>PARKING SYSTEM*   |   |   |
| <b>EQUIPMENTS</b><br>DIGITAL HDTV, MCU, VICON, PRINTER, PROJECTOR, INTERACTIVE BOARD, etc.   | <b>KNOWLADGE MANAGEMNT</b><br>DOCUMENTS MANAGEMENT SYSTEM (DMS)  |  |   |   |

\*(R&D)

# NETWORK INFRASTRUCTURE



- DMS (Document management system)
- VoIP (Voice over Internet Protocol)
- Next Gen (Next Generation Teachers Project)
- LMS (Learning Management System)
- e-Journal (Contohnya: Proquest, Macquarinet)
- Direktorat TIK sebagai Laboratorium pembelajaran berbasis TIK
- SMS gateway
- e-Governance