U-18 INTERNET EXCHANGE PROGRAM

STIMULATING ENGINEERING RESEARCH AND TEACHING COLLABORATION
INTRODUCTION

• ICT can help to meet the needs for exchanging information dissolving the walls of classroom.

• Telecommunication Networks offer expanding access to resources (resource sharing) such as libraries, teaching materials, etc.

• ICT Dissolving regional and institutional boundaries, hence reforming a collaboration in general manners.
OBJECTIVES

• Economical benefit through mutual resource sharing i.e; only one connection to Internet backbone

• Exciting the interactions among lecturers and students in U-18IXP (The Eighteen University Internet Exchange Program)
This Internet Exchange Collaboration will involve *Eighteen* University; UNSYIAH, USU, UDA, UMA, UHN, UISU, UNIMED, UNRI, UNAND, UNP, UNSRI, UNILA, UNTAN, UNLAM, UNPAR, UPB, UVAYA, UNJ

Unila (BBS-Unilanet) will initiate to connect to Internet Backbone through one of Satellite covering Asia, distributing the bandwidth to the **U-18IXP** via Private VSAT Networking

Others will gathered in a private VSAT Networking (e.g. USU – UNILA) and/or wireless connection (e.g. UNIMED to USU)

Members of the **U-18IXP** together build and share multimedia course materials among others via the Established Network.
U-18IXP NETWORKS

Internet Backbone

Private VSAT Services
EXAMPLE OF LOCAL INTERNET EXCHANGE

- USU Internet Gateway
- UNIMED
- UISU
- UMA
- ETC
- OTHERS
- UHN
CONTENT SHARING

U-18IXP

Server
Client

Data

Client
Server

U-1 ... U-18
UNILIA’S EXPERIENCE

• BBS-Unilalanet Sources of Fund to serve Internet connection to University

[Diagram showing percentage distribution of funds with 38% for University Direct Support and 62% for Self Fund]
UNILA’S EXPERIENCE

• Internet Gateway to University (Currently)

ASTINET

Terrestrial Line (128 kbps)

Univ. FO Backbone

Main Switching

BBS-Unilanet

DVB (256 kbps up to 512 kbps)

Public Users

ASIASAT-4 Hong Kong
UNILA’S EXPERIENCE

• Our Strategy
  ✓ Clear Goal
  ✓ Working Team
  ✓ Competence
  ✓ Trust
UNILA’S EXPERIENCE

• **Internal Services**
  – Web Application, Internet Services, LAN

• **Local Government**
  – Training on Information Technology
  – Web Development
  – Bandwidth Sharing and Internet Connection
  – Development of Information System Application

• **Other Higher Education Institutions**
  – Bandwidth Sharing

• **Community**
  – Internet Access via Wireless LAN and Dial Up
Let’s Go

MUTUAL COLLABORATION

Through

NETWORKING