

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)

PROJECT SCHEME

- 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-Unilinet) 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.

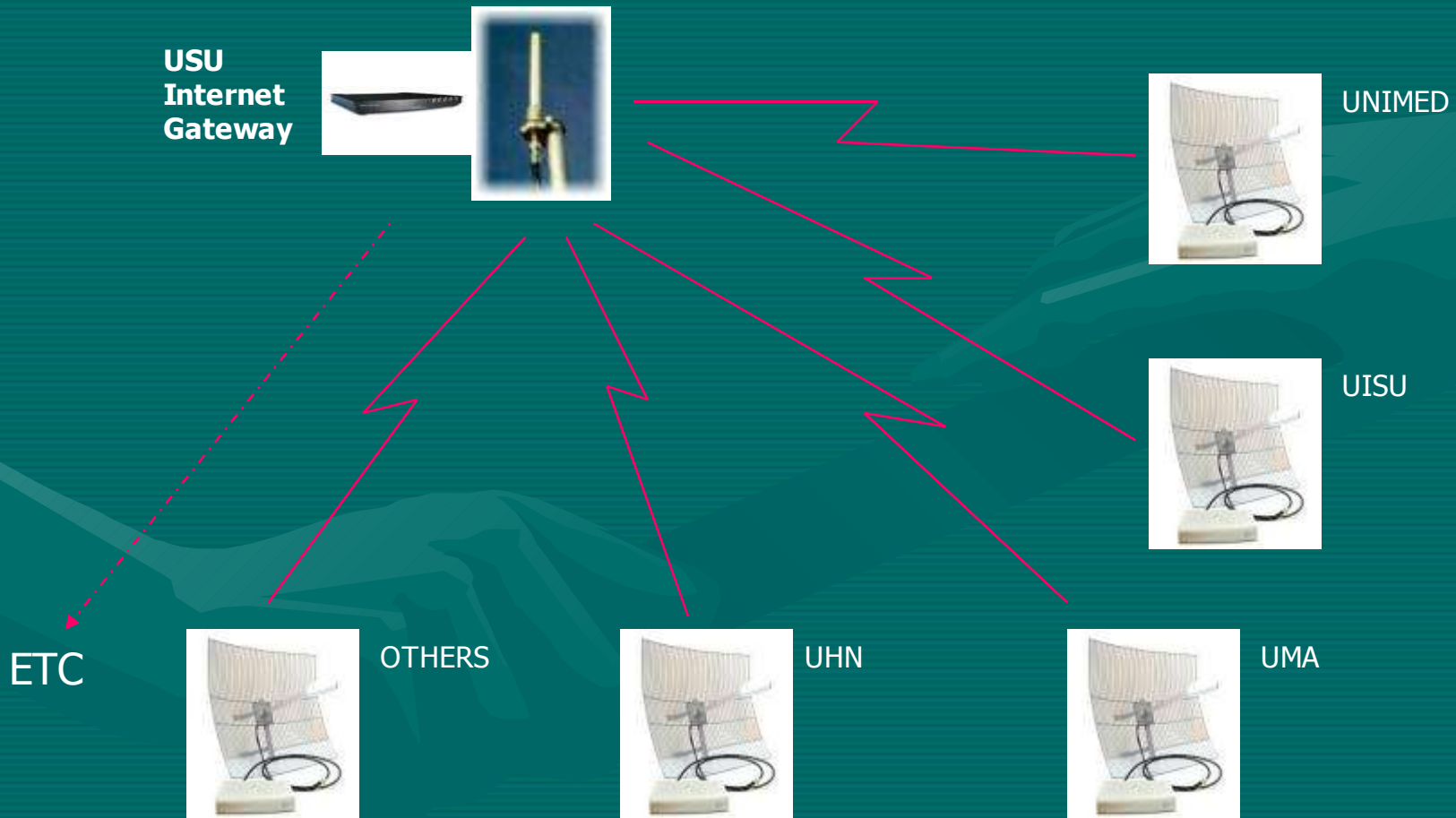
U-18IXP NETWORKS

Internet Backbone

Private VSAT Services



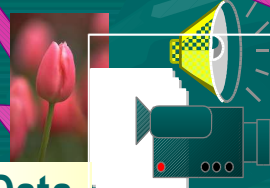
EXAMPLE OF LOCAL INTERNET EXCHANGE



CONTENT SHARING



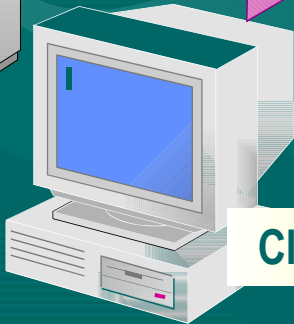
Data



Data



Server



Client



Server

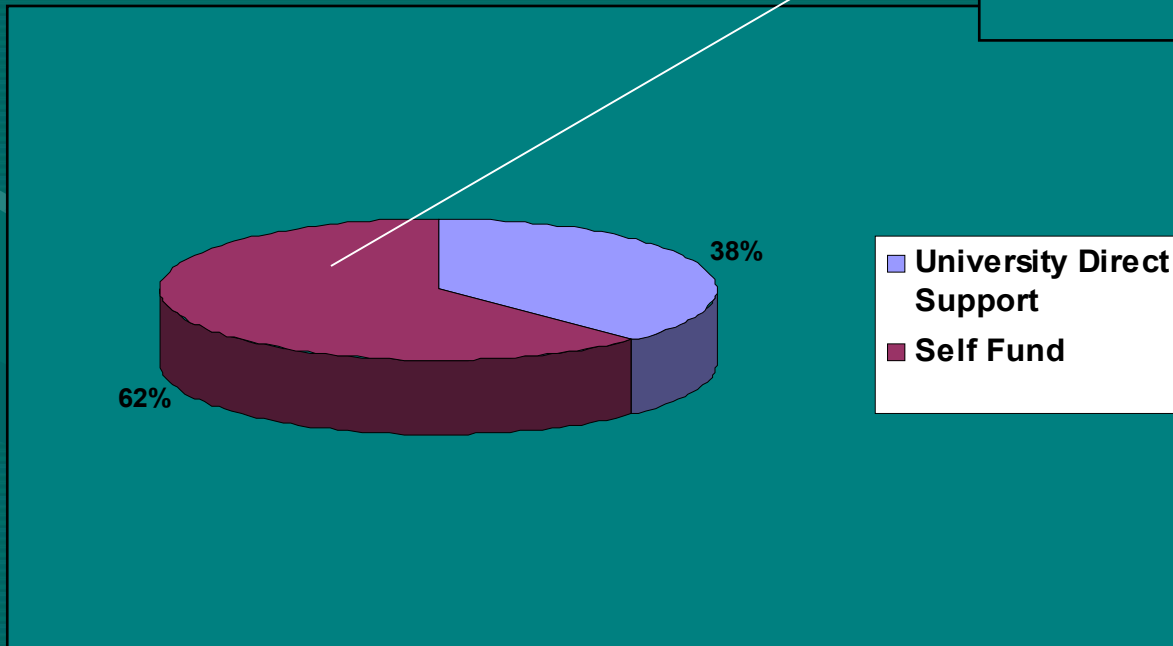
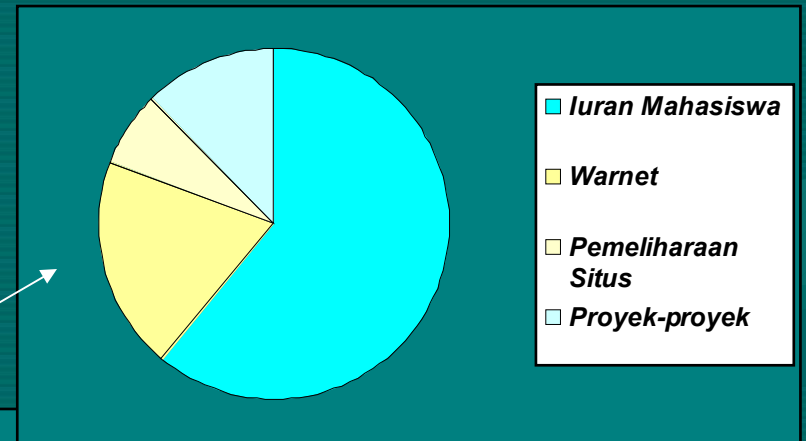


Client

U-1 ... U-18

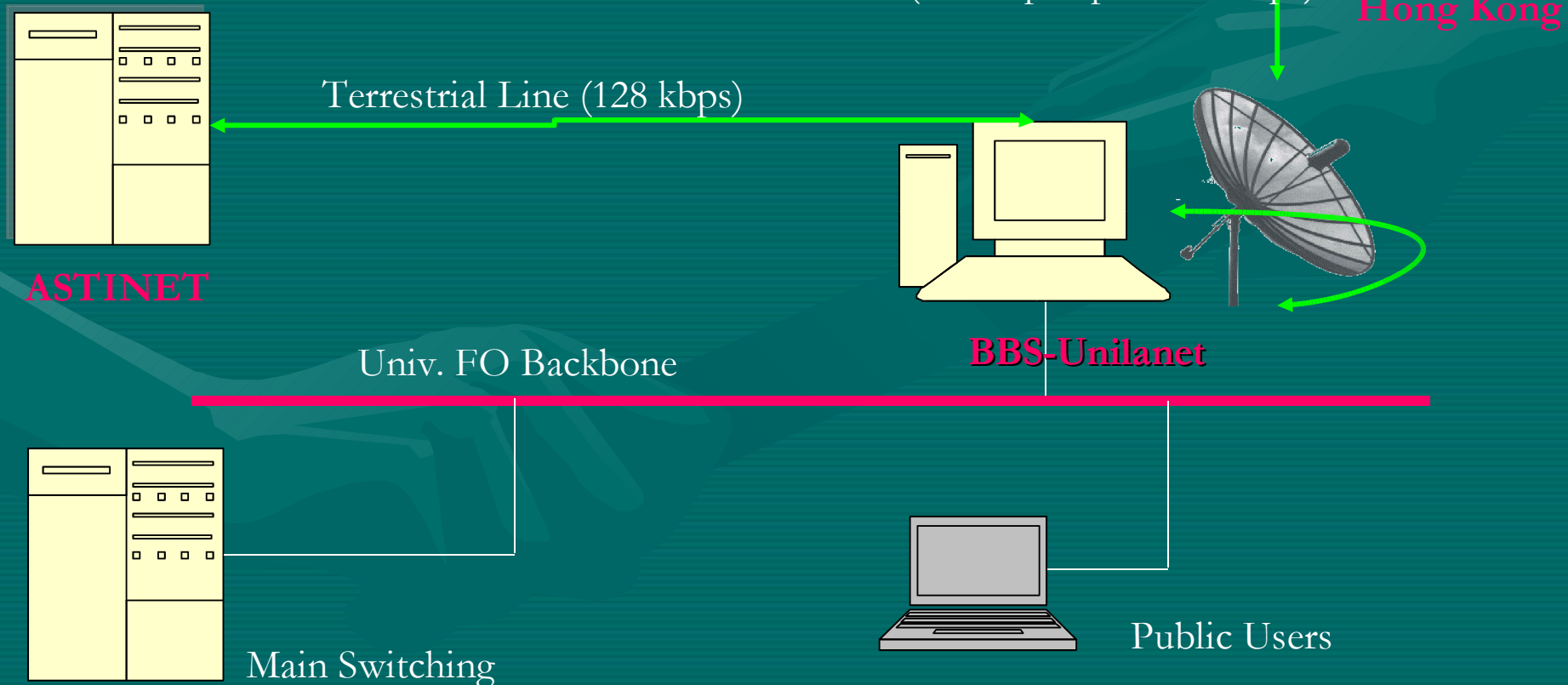
UNILA'S EXPERIENCE

- BBS-Unilinet Sources of Fund to serve Internet connection to University



UNILA'S EXPERIENCE

- Internet Gateway to University (Currently)



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

