

LEVERAGING TECHNOLOGY TO
TRANSFORM HIGHER EDUCATION

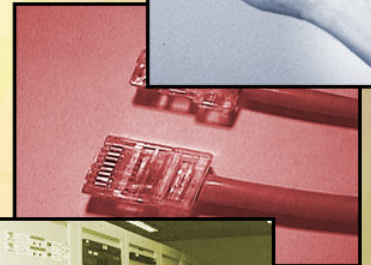
EXPERIENCES

Through **Smart Campus**

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The Landscape

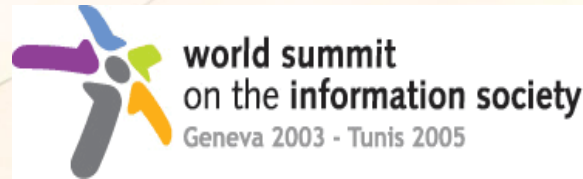
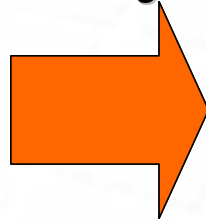
ICT in Indonesia

Current Status

- Lacking of Investment on ICT Infrastructures
- Low Teledensity (5.9) *(Based on InfoMemo 3th Quarter 2005)*
- Most lines are concentrated on cities
- Major populations do not have opportunity to access
- There is a need to invite foreign investors to participate in developing ICT

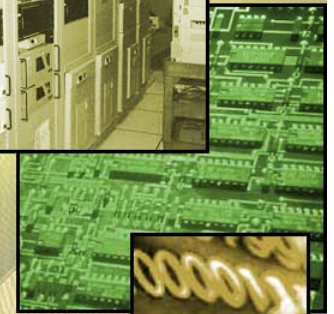
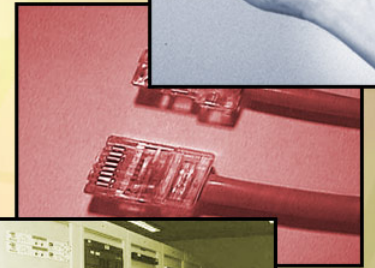
(Source: Directorate General Of Post & Telecommunication)

e-strategies



WSIS Goals in 2015

- Connect ICTs to:
- Villages & establish community access points
 - **Universities, colleges, secondary & primary schools**
 - **Scientific & research centers**
 - **Public libraries**, cultural centers, museums, post offices & archives
 - All local & central government departments & establish web site & e-mail



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The Landscape

Indonesia's e-strategies

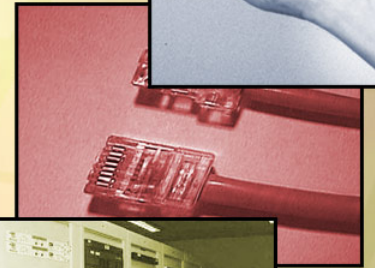


- Establishing regulations on ICT
- Developing infrastructures and access facilities
- Developing IT corridors
- Encouraging IT services, emphasized on :
 - Tele Education
 - Tele Medicine
 - E-Government



Aims	TELKOM Initiatives
<ul style="list-style-type: none">• Accelerating internet access from schools	Internet Go to Schools
<ul style="list-style-type: none">• Establishing campus network in Indonesia• Developing course contents• Promoting on-line education & research on IT	Smart Campus

(Source: Directorate General Of Post & Telecommunication)

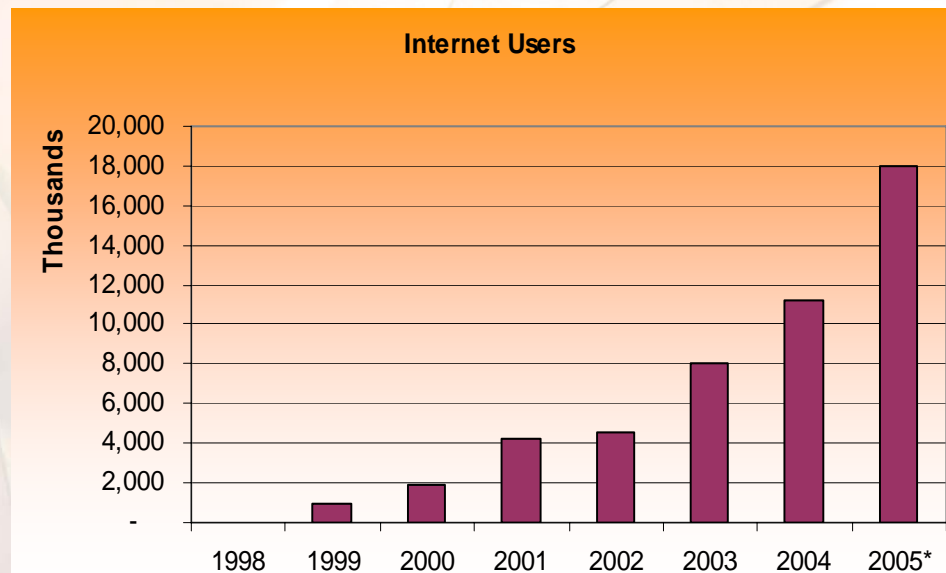


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The Landscape

Potential Internet Users

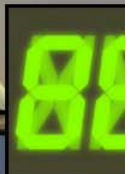
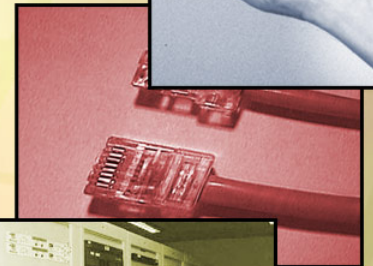
Huge potential internet users in Indonesia:



(Source: APJII, Last Update February 2005)

- **Estimated Internet Users in 2005 : 18 million** (Based on <http://www.internetworldstats.com>)
- **Internet Users will rise up rapidly to 57 million in 2010** (Based on *Business Monitor International & Internal*)
- **Half of Internet users are between the ages of 21 and 25 (student)**
– source: *Indonesia-ICT Assessment, PEG Project*

Half of them leveraged by educational sector



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The Landscape

Internet Access Condition

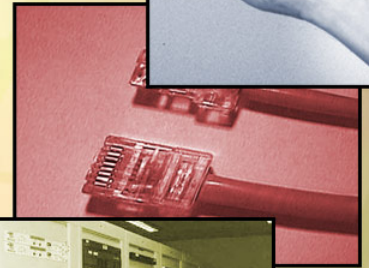
- Public internet kiosks → 43%
- Offices → 41%
- Residential → 12%
- Campuses → 3%
- Schools → 1%

(Source: Directorate General
Of Post & Telecommunication)



Fact!

More than **50% potential internet users** is leveraged by **Educational sector**, but it only gives **4%** contribution to **Internet Access**



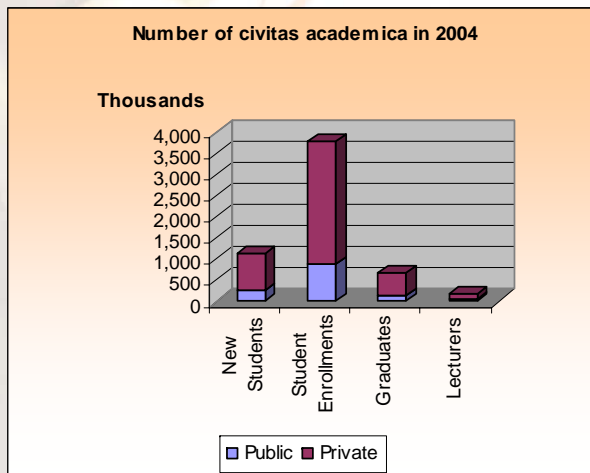
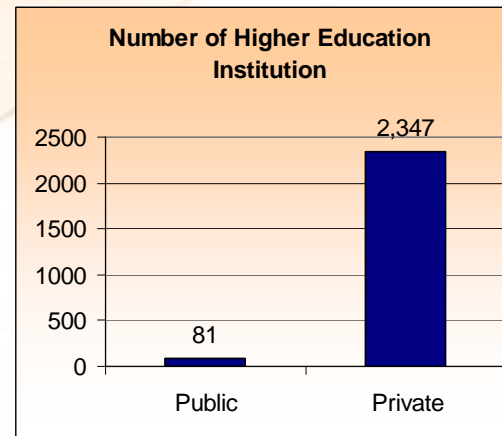
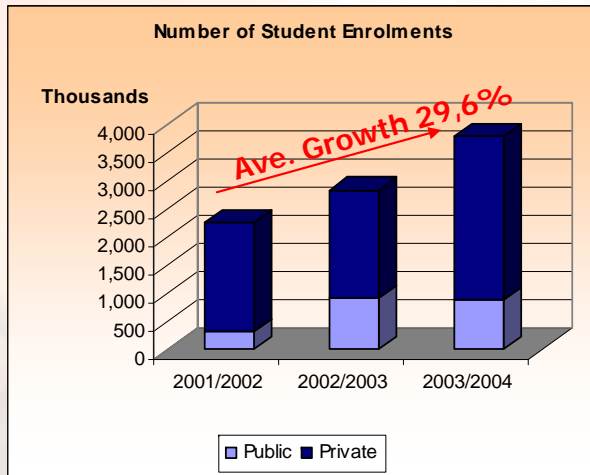
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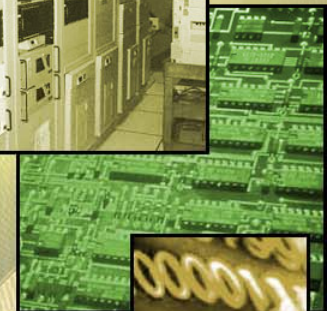
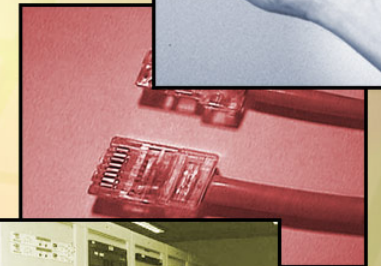
The Landscape

Universities' Profiles in Indonesia



(Source: PUSAT DATA DAN INFORMASI PENDIDIKAN, BALITBANG – DEPDIKNAS, 2005)

- Higher Education Institution is dominated by Private Sector
- Significant growth in Student Enrolments (29,6%) to 3,8 million in 2004
- Number of Graduates 1,1 million in 2004, with 29,6% Growth will result 20 million Graduates in 2010



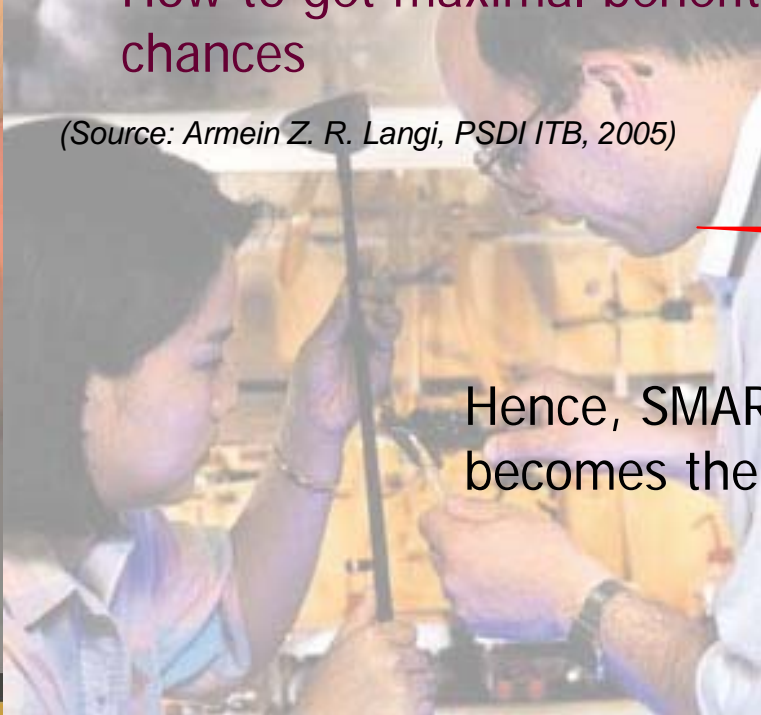
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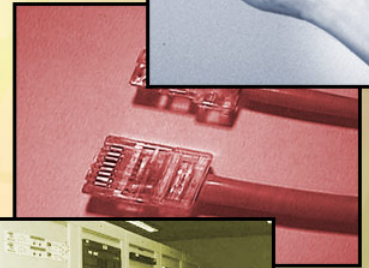
Issues on Education Sector

- How to achieve Academic Center of Excellence
- How to deal with the second revolution era: Technopreneurship
- How to get maximal benefits from knowledge economy chances

(Source: Armein Z. R. Langi, PSDI ITB, 2005)



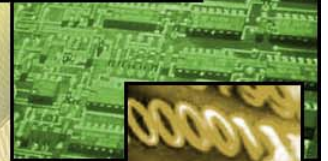
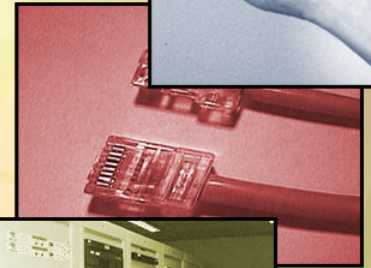
Hence, SMART CAMPUS Network becomes the Major Issues



The Landscape

Smart Campus Hope & Deed:

- Services for students
- Improve student life & Campus Culture
- Improve Academic Quality & Climate
- Assure that all faculty members are able to maximize the use of ICT
- Provide a reliable network & services to facilitate Campus Community
- Facilitating Quality of Service of Data, Voice and Multimedia in Campus



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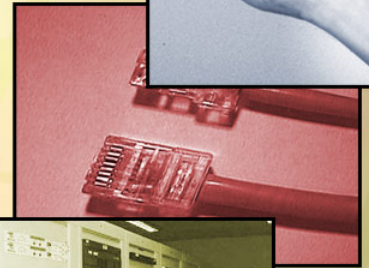
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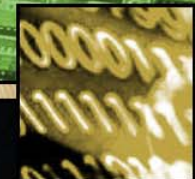
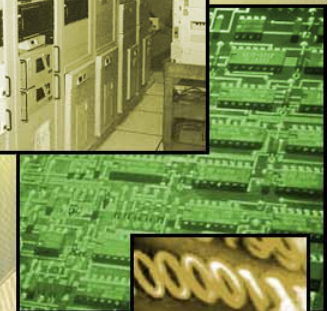
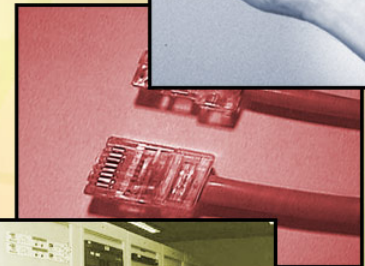
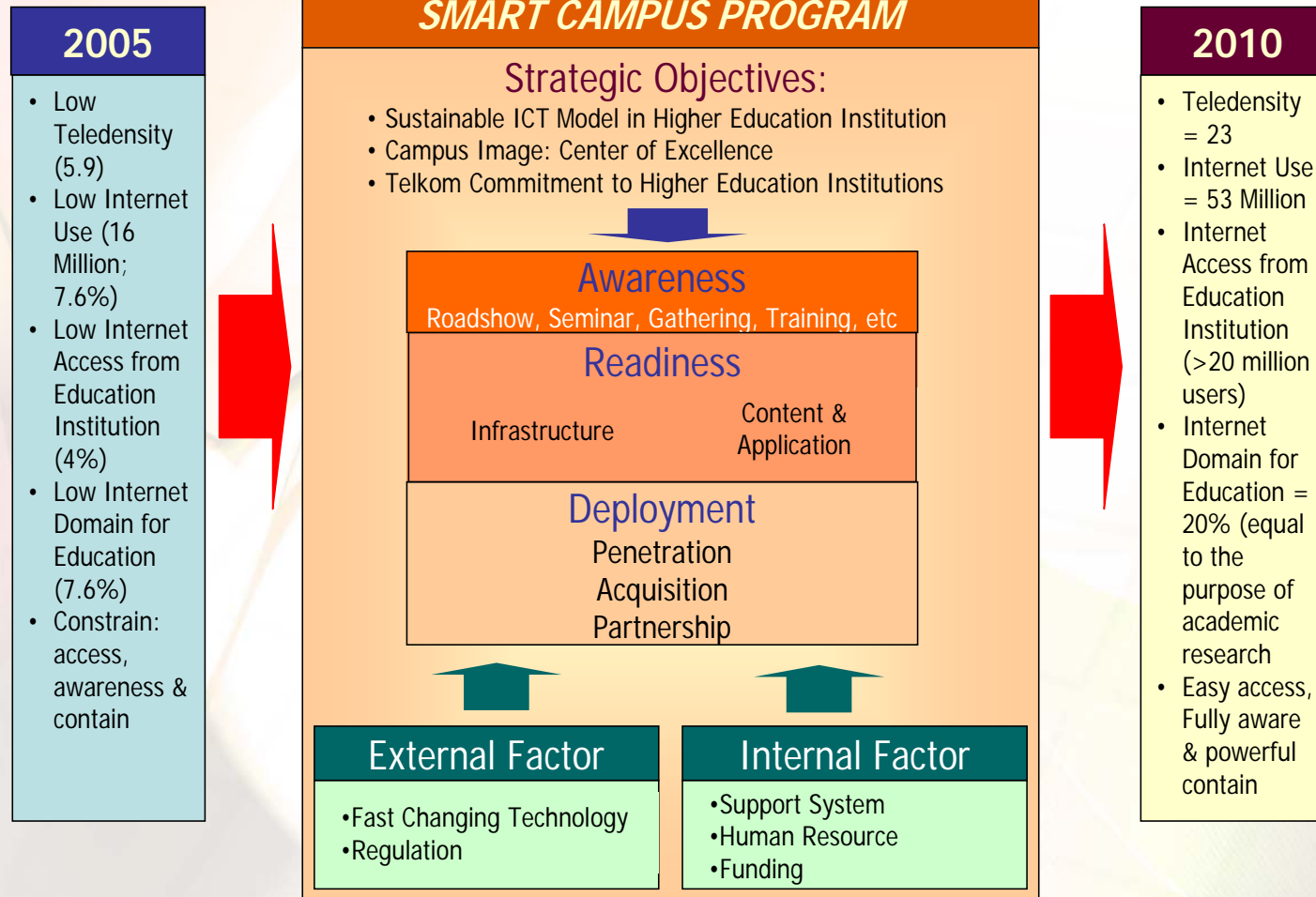
Smart Campus Objectives:

- To achieve WSIS goals by 2015 through improving quality of ICT knowledge and practices.
- To encourage huge potential internet users get easy access to ICT
- To Enhance Campus' Image become "Centre of Excellence"
- Prepare people to face Technopreneurship era and Knowledge economy



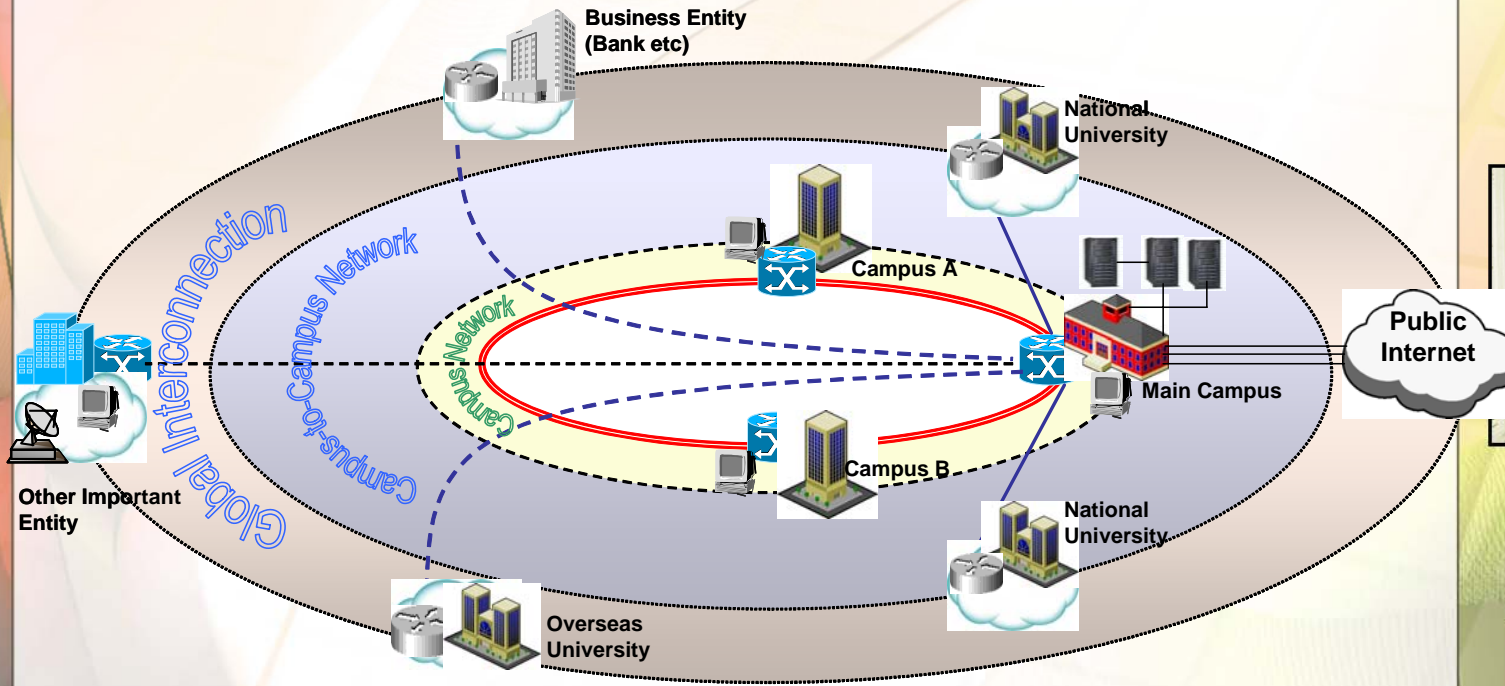
The Strategy Framework

e-strategy Frame Work



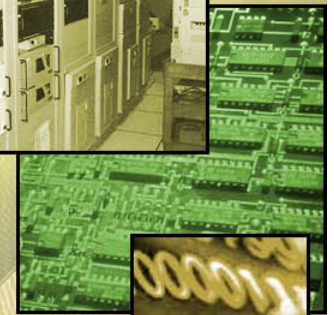
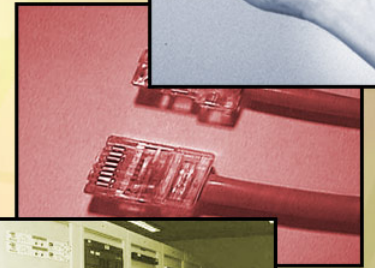
Smart Campus Solution

Solution for Connectivity



LEGEND

- : Intranet Campus
- : C2C Network
- : Other Net



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Smart Campus Solution

Content & Application

Input Data (BAAK, Puskom dan DB Admin)
Fakultas, Jurusan, Program Studi,
Mahasiswa dan Data Pejabat



BAU
- Membuat Rincian Biaya Kuliah
- Pembayaran SPP mahasiswa
- Input Data Dosen



BAAK
- Membuat Kalender Akademik



Bag Perlengkapan
- Membuat Daftar Ruang Kuliah



BANK (dibantu Puskom)
- Validasi Pembayaran SPP Mahasiswa



Pembantu Dekan I
- Mengisi Daftar Mata Kuliah
dan jadwal Kuliah



Mahasiswa
- Melihat DAK
- KHS
- Transkrip Nilai

PROSES BERLANGSUNG dan
TERPELIHARA
SAMPAI MAHASISWA **LULUS**



Dosen PJ Mata Kuliah
- Memasukan Nilai Kuliah
- Menerbitkan DAK

PERKULIAHAN
BERLANGSUNG



Mahasiswa
- KHS sudah disetujui PA
- Tendaftar DNK

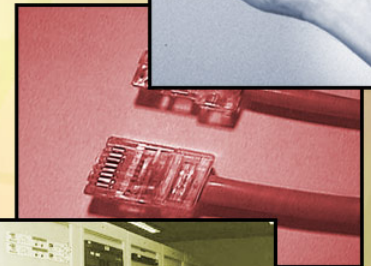
Mahasiswa
- Mengisi KRS



Dosen PA
- Memvalidasi KRS



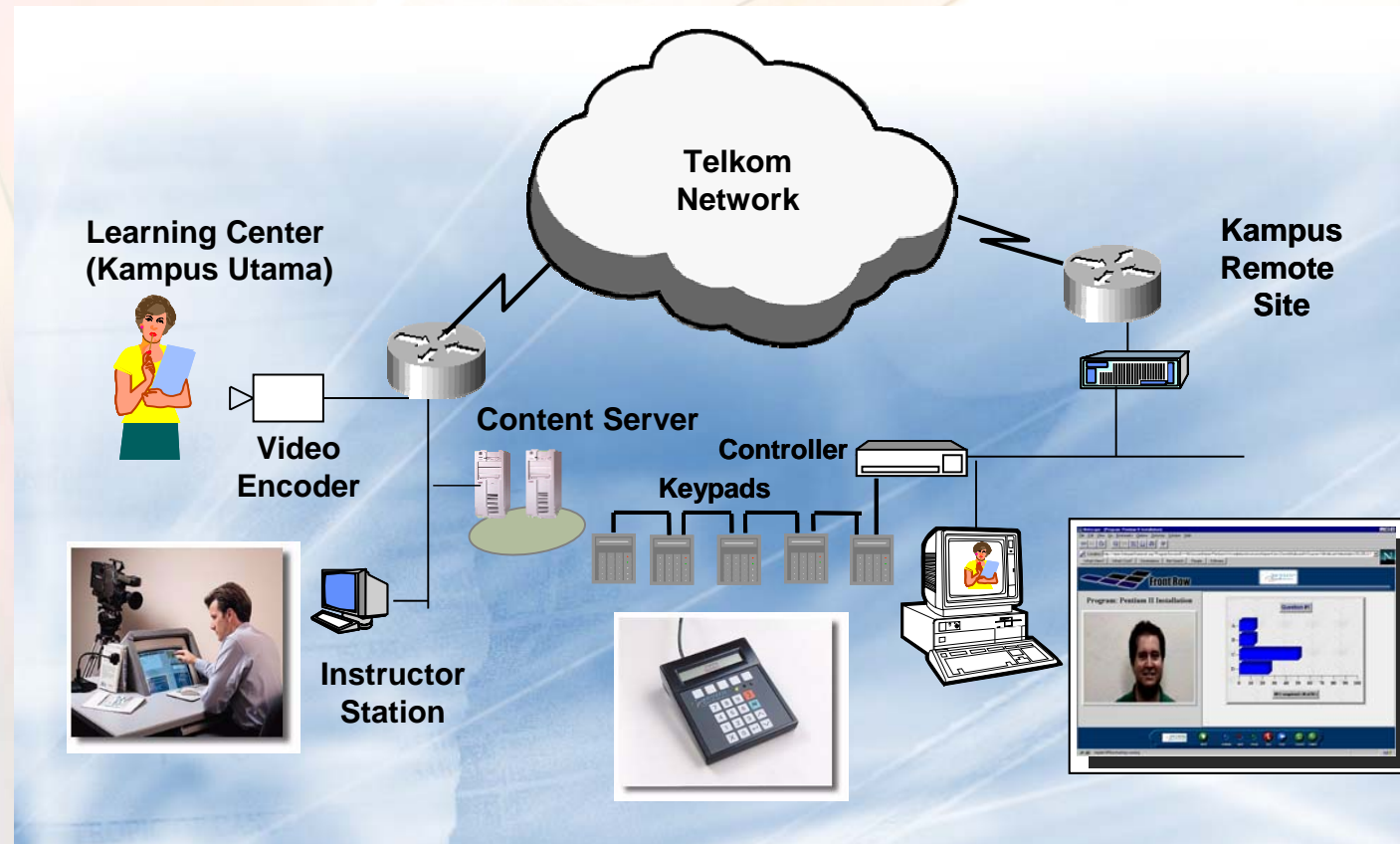
Ketua Jurusan
- Membuat Kurikulum
- Menugaskan Dosen PA
- Menugaskan Dosen PJ Mata Kuliah



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Smart Campus Solution

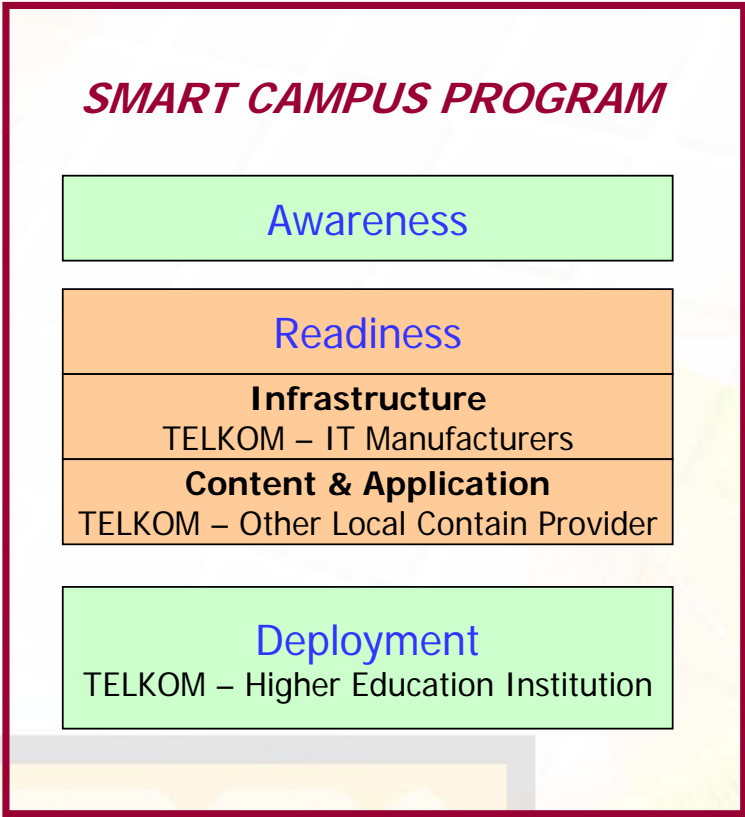
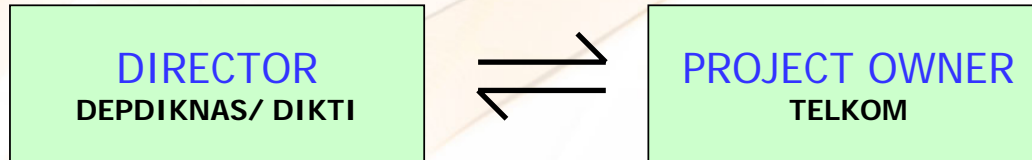
Distance Learning



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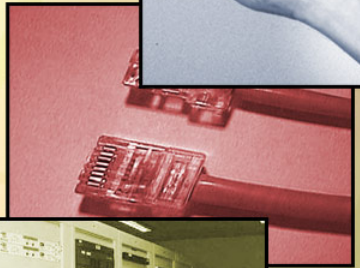
Partnership Scheme



- FUNDING**
- CDC, GCG, USO – TELKOM
 - UNESCO
 - APBN
 - Other Independent Foundation



- INFLUENCER**
- DEPERINDAG
 - DEPKOMINFO
 - MASTEL
 - APJII



Thank You

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