Indonesia:

Development of National Data Warehouse as the foundation of National Information Center

Nizam
Secretary,
Board of Higher Education

UNESCO Regional Meeting, Seoul, 23-24 May 2012
### Higher Education Students

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*) Sensus Penduduk, 2010
The Need for Data & Info Center

- **Government** need information for decision making (funding & development)
- **University** need data & info for management
- **BAN-PT** (National Accreditation Board) need data for accreditation
- **Public** need information
- **Industry & Business** need information for graduates & quality of provider
- **Partners** (overseas universities, institutions, etc.)
Data & information provider

- **DGHE**: EPSBED/PDPT (national database of HE) information on every program
- **Higher educ institutions**: Individual data not compatible
- **BAN-PT** (National Accreditation Board): data of accreditation status
The Need for Data & Info Center
National Data Warehouse Architecture
How does it Work

**Public Higher Education Institution**

- Web Service
- Manual Entry

![Operator PTN](image1)

![Web Portal PDPT](image2)

**Private HEI**

- Web Service
- Manual Entry

![Operator PTS](image3)

![Web Portal PDPT](image4)

- Web Service
- Data validation

![Operator Kopertis](image5)
Data flow

1. EPSBED* (Corrected)
2. Data File 01
3. Data Correction
4. Proses Correction Data
5. Form Data Entry
6. 6A PORTAL PDPT
7. View Data
8. PTN/PTS
9. DATA DISPATCHER
10. Data Center PDPT

Flow:
- EPSBED* to Data File 01
- Data File 01 to Getting Data 02
- Getting Data 02 to 2A Valid?
  - Yes: 05. Commit
  - No: 03. Create Log And List Incomplete Data
- 03. Create Log And List Incomplete Data to 2A Valid?
  - Yes: 07. Data Cleansing (Data Profiling, Data Deriving Rule)
  - No: 04. Proses Correction Data
- 04. Proses Correction Data to 06 Form Data Entry
- 06 Form Data Entry to 2A Valid?
  - Yes: 08. Data Staging
  - No: 06 Form Data Entry
- 08. Data Staging to 09 Run Mapping
- 09 Run Mapping to 10 Dashboard
- 10 Dashboard to 07 Data Cleansing (Data Profiling, Data Deriving Rule)
Inherent
bridging gaps • connecting islands of knowledge

Infrastructure

Indonesian Higher Education Network 2011
What is Available

• Institution: type, profile
• Study program:
  – Degree granted,
  – Program,
  – Accreditation,
  – Resources
• Staff: academic & supporting
• Student
  – Track from entry to graduate
• Based on National Standard of Higher Education Institution
Challenges

• Capacity of HEIs
• Keeping data up to date
• Validation and verification
• Data and network maintenance
• Information accessibility
• Timely response to request
Thank you
Terima kasih
Kop Khun
Cam-on
Xie-xie
Arigato
Danke
Merci
Gracias