Polytechnics Education Development in Indonesia

Management Unit of Polytechnic Education Development Program
Ministry for Research, Technology and Higher Education
2008-2018
Total Polytechnic Institution (262)

- State Owned: 43, 17%
- Managed by Sector: 53, 20%
- Private Owned: 166, 63%

Source: Higher Education Data Center, 2015

Number of Students (234,495 people)

- Engineering: 94,063, 40%
- Health: 67,563, 29%
- Agriculture: 13,106, 6%
- Other: 59,763, 25%

Source: Higher Education Data Center, 2015
Number of Lecturer /Instructor (14,940 people)

- Engineering: 5888, 40%
- Non Engineering: 3184, 21%
- Health: 4653, 31%
- Agricultural: 1215, 8%

Source: Higher Education Data Center 2015

Lecturer /Students Ratio

- Engineering: 1:16
- Agriculture: 1:11
- Health: 1:15
- Non Engineering: 1:19
Policy Direction of Polytechnic Development

- It is inline with the national economic development program;
- The graduates’ competencies meet with the needs of the labor market;
- Focusing on specific sector;
- Partnerships;
- The development program meets the demand and contribute to economic growth.

Current Government Policy of Development

- **Maritime Align (could be extended to Air Connectivity)**
  
  Newly Polytechnic Development Program (NPDP): Maritime Schools; Ship Building School Enhancement; Air Craft Maintenance Study Programs; Spare Parts Production Technology (Electrical/Electronic and Mechanical Based)

- **Energy Development**
  
  NPDP: Drilling Technology Study Programs; Enhancing the Existing Energy Technology Study Programs; Mining Supporting Technology Study Programs

- **Infrastructure**
  
  PEDP (ADB Loan): Center of Technology in Infrastructure (potentially could be extended)
Proposed Development Program (NPDP)

Establishment of New Strategic Courses:
- Drilling Technology
- Utility Technology
- Component Production Technology
- Food Processing
- Maritime
- Aircraft Maintenance

Indonesia State and Private Polytechnic

Improve Leadership Ability:
- Structured Leadership Training
- Business Management Training
- Industrial Work Safety Training

Massively Promoted:
- Promotional activities at the National Media
- Promotional Activity in Local Media
- National Scale Event Routinely

Community Improvement Award:
- Collaboration with industry nationally
- International Cooperation Between Polytechnics

Proposed Development (NPDP) : Teaching Factory Synergy between making and usage of equipment

- National Policy for Teaching Aids/Lab Equipments and Mini Plant
- Designing and Prototyping
- Making/Producing/Manufacturing
- User

- Polytechnic Schools
- SMK Schools
- CC Institutions
- Training Institutions
- Small and Medium Enterprises/Companies

- SMK
- Polytechnics
- Training Institution
- Society

- Central Government
- Local Government
- Ministry of Education
- Other Ministries

State and Private Polytechnic are able to face challenges in industry.
Proposed Newly Polytechnic Development Program (NPDP)

• Application of Recognition of Prior Learning (RPL), Credit Transfer System (CTS), Certification through the establishment of Competence Certification Institute (LSP) in polytechnics nationwide;

• Staff development, as in fact polytechnics were established at the same time, so there will be retirement at the same time;

• Development of simulation-based teaching materials and Information Technology (IT), and Information system in Teaching Learning Process;

• Enhancing co-operation and partnerships between Community College, Vocational School, and Overseas Colleges/Polytechnics/Institutes/Kosen (OCPIK);

• Continuing of the promoting program for industry partnerships, and expanding Center of Technology (CoT) in many sectors related to Government Economic Development Program.

Schematic of Proposed NPDP
Arigato
Terimakasih
Thank You