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Asia and Pacific Regional Bureau for Education



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ICT for Skills Development in the Changing World of Work

Innovative Strategies for Development Summit 2016

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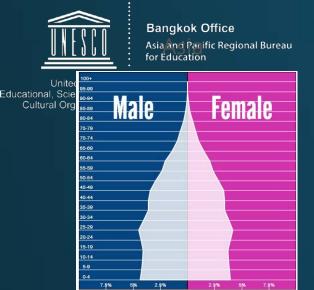
Outline

- Issues and challenges in skills development in AP
- UNESCO and skills development
- ICT for innovative skills development: Cases
- Recommendations



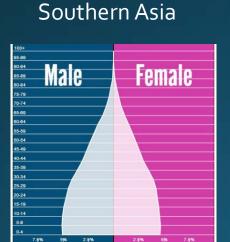
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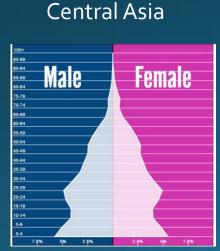
Issues and challenges in skills development in Asia-Pacific

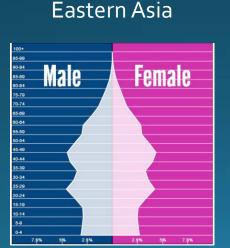


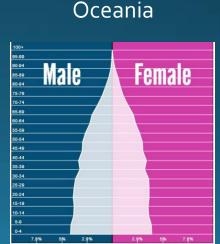
demographic shifts: Diverse demographic patterns within Asia-Pacific

- 1) Southern and Central Asia have a "youth bulge" and may face challenges educating youth and providing jobs.
- **2) Eastern Asia** has "population pillars" and is seeing an increasing population of aging but active citizens.









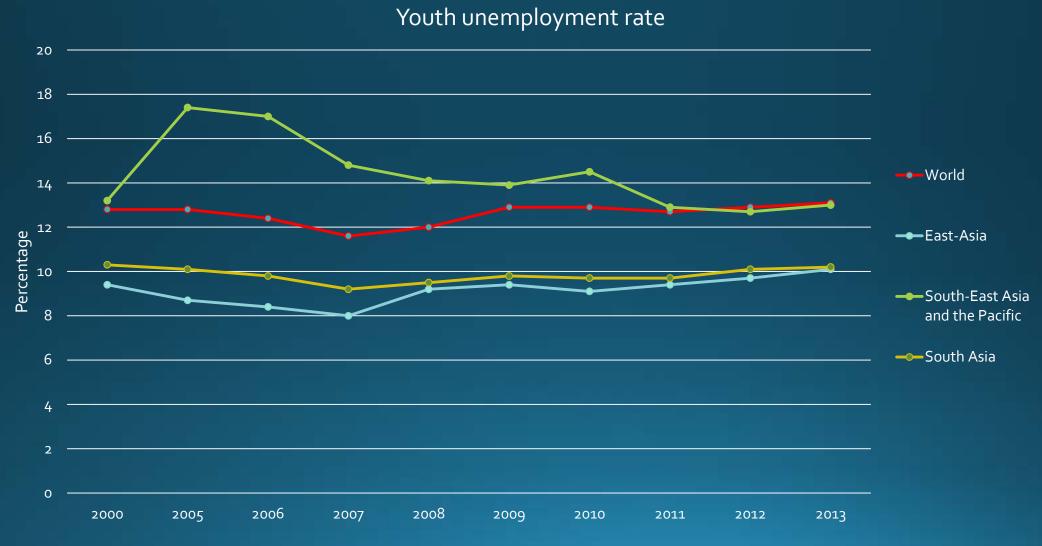
Source: Populationpyramid.net (accessed in May 2016); UNDP (2016), Asia-Pacific Human Development Report. Data source: UN DESA(2015), World Population Prospects: The 2015 Revision.



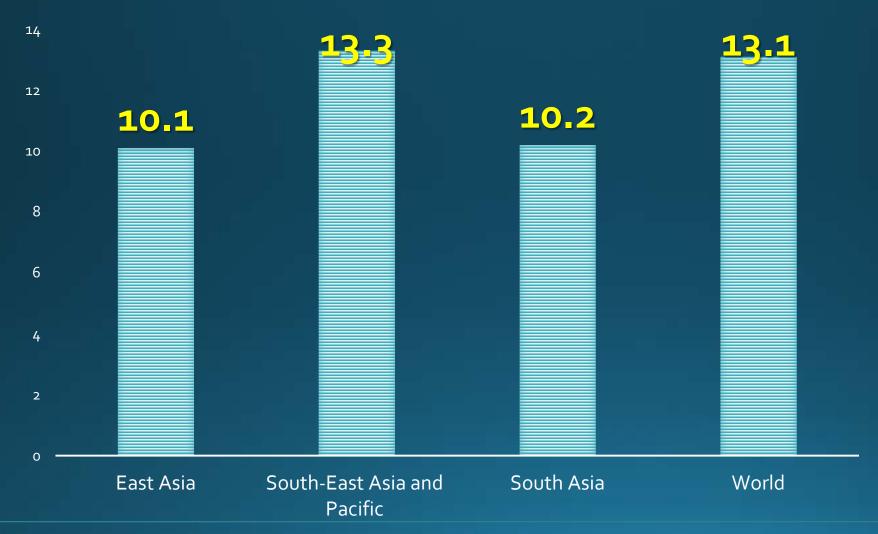
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Persistent youth unemployment





Youth unemployment rate of Asia-Pacific



Source : ILO global employment trends 2014

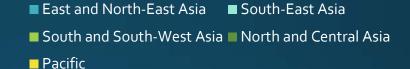
Changing added values by sector

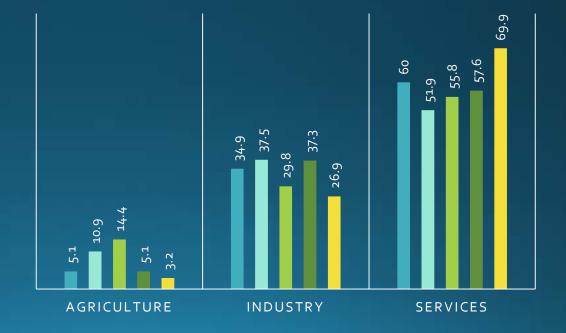
VALUES ADDED BY SECTOR 1990 ■ East and North-East Asia ■ South-East Asia ■ South and South-West Asia ■ North and Central Asia Pacific

INDUSTRY

SERVICES

VALUES ADDED BY SECTOR 2014



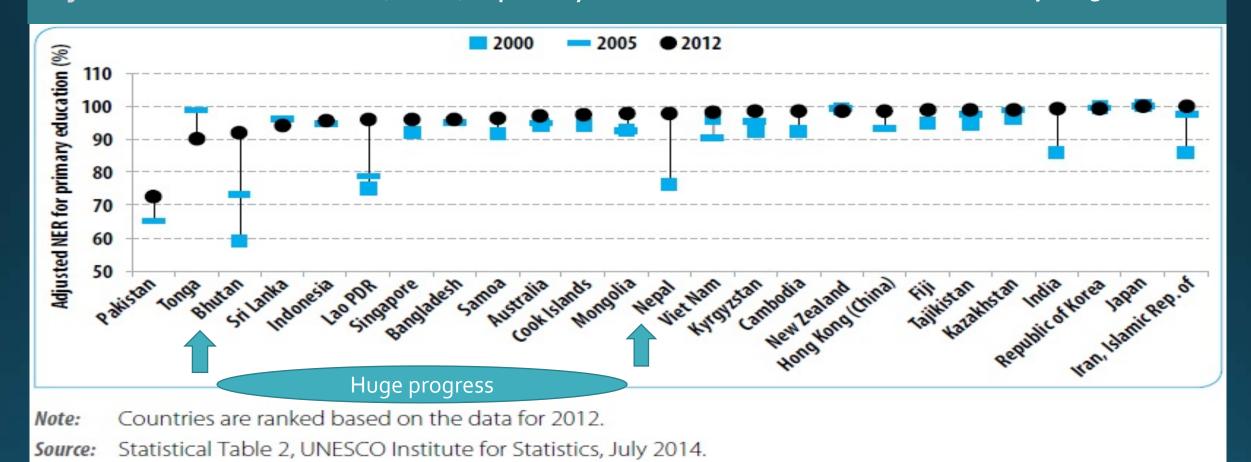


Source: UNESCAP 2016

AGIRICULTURE

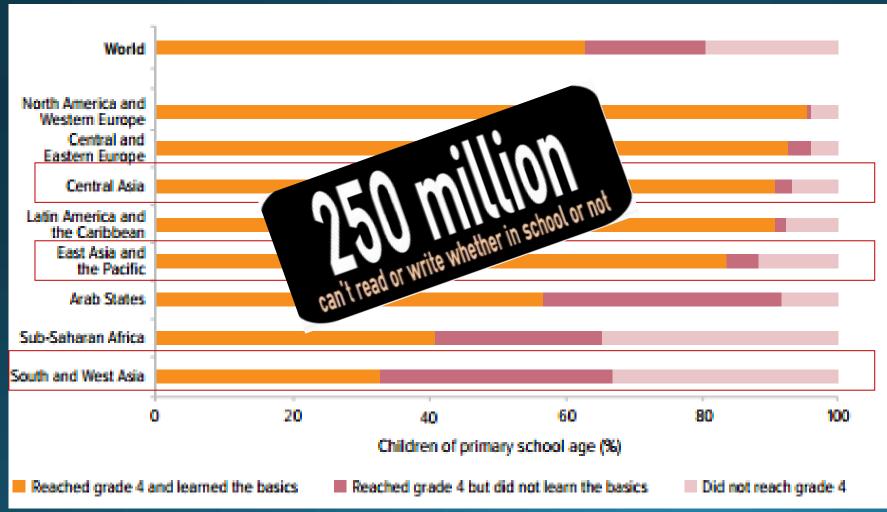
Increasing enrollment in basic education

Adjusted net enrolment rates (ANER) in primary education in selected countries in 2000, 2005 and 2012



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A Global Learning Crisis



A big number of primary school children are not meeting minimum learning standards.



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UNESCO and Skills Development

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On 25 September 2015, 193 Member States adopted the 2030 Agenda for SD.



















CLEAN WATER AND SANITATION









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Setting New Agenda for Post 2015



"Ensure inclusive and equitable quality education and lifelong learning for all"

- Final big push for the unfinished EFA agenda
- Re-focus on "Quality" and "Relevance" of learning for the 21st century



New Targets (By 2030, ensure that..)

- 1. all girls and boys **complete free, equitable and quality primary and secondary education** leading to relevant and effective learning outcomes.
- 2. all girls and boys have access to quality early childhood development, care and pre-primary education.
- 3. equal access for all women and men to affordable quality technical, vocational and tertiary education, including university.
- 4. all youth and adults have relevant skills, including **technical and vocational skills, for employment**, decent work and entrepreneurship.
- 5. eliminate gender disparities in education and ensure equal access to all levels of education and vocational training for the vulnerable, including persons with disabilities, indigenous peoples, and children in vulnerable situations.
- 6. all youth and adults, both men and women, achieve literacy and numeracy sufficient to fully participate in society.
- 7. all learners acquire the **knowledge and skills needed to promote sustainable development** (e.g. global citizenship and appreciation of cultural diversity and of culture's contribution to sustainable development)



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UNESCO: Providing a platform for policy dialogue

Global Level

Trecommendatio Leverage the potential of ICT to transform

Leverag

Kuala Lumpur Declaration 8 actions to advance TVET in Asia-Pacific Endorsed by delegates from 27 countries

_umpur, 2015

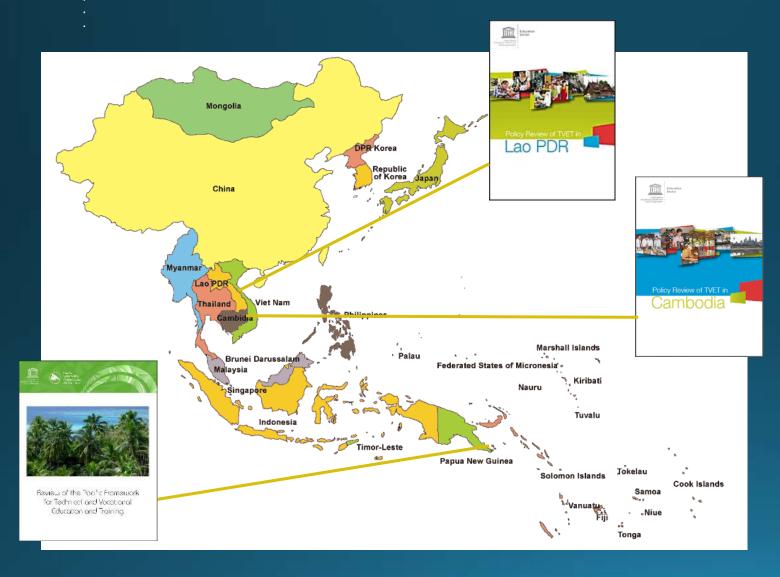
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raining



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ANALYTIC WORK: TVET POLICY REVIEWS



Ongoing study:
ICT-enhanced
Innovative Pedagogy in
TVET: Case Study



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ICT for innovative skills development

- Improving access
- Enhancing relevance
- Data-informed TVET policy making



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ICT to improve access to learning opportunities



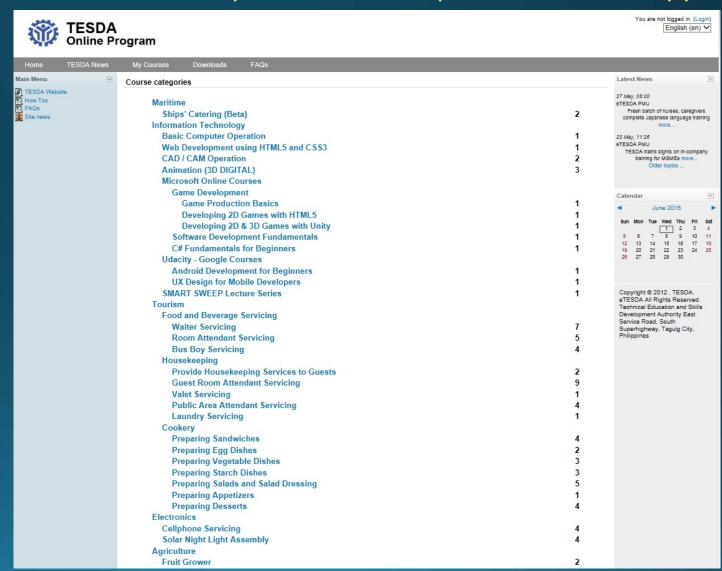
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ICT for flexible learning paths for lifelong learning

Technical Education and Skill Development Authority (TESDA) in Philippines

http://e-tesda.gov.ph/



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> **TESDA News FAQs** Home My Courses Main Menu **Latest News** Course categories TESDA Website
> How Tos
> FAQs
> Site news Information Technok Room Attendant Servicing **Basic Computer O** Over 84,000 registered users Module2: Lesson1: Taking an Ord aking Guest Order Computer Hardwa Game Programmir 15,000 overseas registrants Taking an order **Tourism** Waiter Servicing speak politely and Valet Servicing Bus Boy 9 Room b the phone and greet the guest. Be sure to introduce yourself and offer greetings with a smile. **Guest R** 2. Write the guest details on the order slip. This **Electronics** includes the name and room number of the quest. Cellphone Servicii Sample script: "Room Service. Good Morning!" "This is.... (mention your name) . How may I help Search o "May I know who is on the line please?" TESDA 7 "May I know your room number?" Site news Getting the order Video-Based 1. Ask for the order of the quest. If you are not **TESDA** online storms Previous Topic: **Next Topic: Demonstrations** by eTESDA PMU - Friday, 22 Lesson2:Communicating Orders Materials needed





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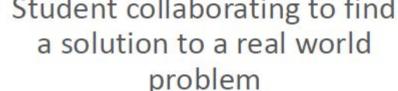
ICT to enhance relevance of TVET learning



Simulation Training - Centre for Healthcare

Authentic or simulated learni









ICT for authentic and relevant learning

Virtual training package from Online Lifelong Education Institute, Korea University of Technology & Education





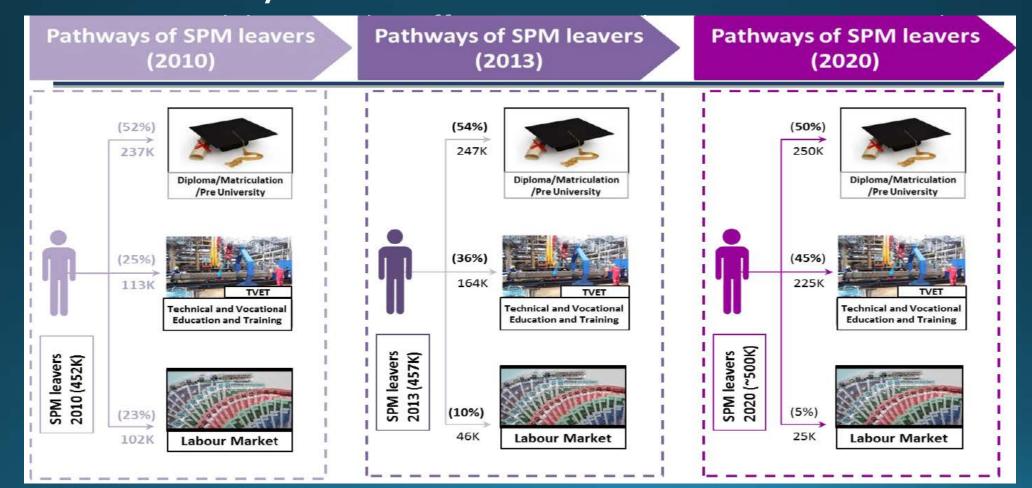
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ICT to facilitate data-informed TVET policy making

Malaysia

• Eleventh Malaysia Plan 2016-2020





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 Institute of Labor Market Information & Analysis (LMIA) as centre for LMI data warehouse (demand -supply) and analytics





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ICT for strengthening data-informed TVET

Labour Market Framework

Workforce Dashboard: Easy-to-retrieve and easy-to-read format for a quick snapshot of the country's labour market situation

Requirement: Labour Market Information/Indicators

 Traditional and forwardlooking labour indicators e.g. demandsupply of human capital, time-to-fill, job creation, sector critical skills, salary & wages, etc.

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Data Source

- Economic Census
- Labour Force Survey
- i. Establishment Survey
- iv. National Employment Return (NER)
- v. Studies and Research (e.g. Sector Studies, Wage, Corridor, Skills)
- vi. Research work by other organisations



- Once LMIDW is completed, it will be an important data source for the dashboard
- The existing functionality of LMIDW can be used to develop the graphic interface of the dashboard work prepared by WB

Dashboard

- Pilot through WB Project: Excel
- Subsequent stage: Interactive Graphic Interface

ILMIA Portal

- -Dashboard:
- Core indicator
- NKEA
- Jobs
- Salaries & Wages
- Sector LMI
- State LMI
- Forward Looking
- Interactive Chart

www.ilmia.gov.my

-Link to website of EPU, DOS, PEMANDU, Talent Corp, Bank Negara, MIDA

Information and Analysis

 Dashboard outputs can be used to prepare reports and analysis on labour market



Outcomes

- Better insights into labour market issues
- Framework for determining supply and demand
- Further Initiatives for research on labour market issues

Source: Amar, A. B. (2015). Accelerating human capital development for an advanced nation. Presentation at UNESCO Asia Pacific Conference on Education and Training.



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Recommendations

ICT for Skills Development

Strategic Readiness

• Vision and Goals

Organizational Readiness

• Committees and taskforces

Technical Readiness

- One-stop learning management system
- Data-informed programme design

Pedagogical Readiness

- Teacher development
- Innovative pedagogy

Operational Readiness

- Learning support
- Involving community



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Thank You.

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- UNESCO. (2015). *Background Note : ICT in TVET.* Making Skills Development Work for the Future, ACET (UNESCO Bangkok 2015)