

Industrial skills development Challenges and opportunities in developing countries





The structure of presentation

Why is the industrial skills development necessary?

- The node to link and achieve various developmental goals
- Skills ⇔ SDGs, poverty reduction, and economic growth

What does it mean to be competent at work?

- Do we really know the exact contents of "skills" to be developed?
- The latest global discussion on the concept of "knowledge"

Why does skills gap occur?

- "Live together but in different worlds" Why is the coordination among stakeholders so difficult?
- Twin gaps of supplies and demands in the labor market
- Fluidity and multi-dimensionality of targets and contents

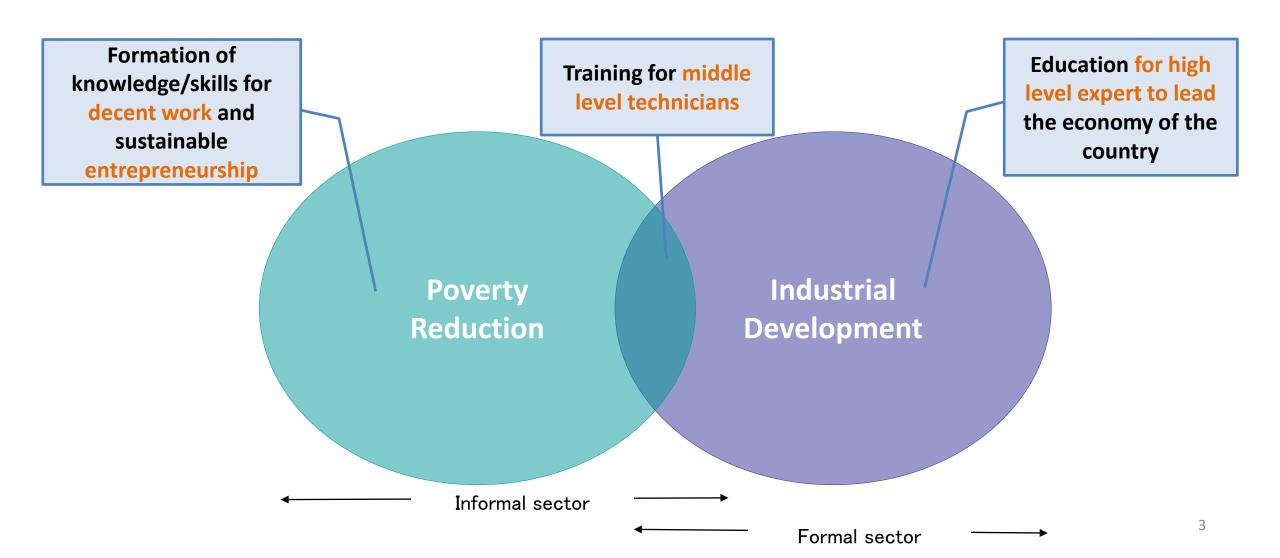
Who demands for TVET?

The skilled workers are necessary but should they be trained at TVET?

Any impact of COVID on skills development?



Skills are the foundation of economic growth and poverty reduction



Social investment for the growth of developing countries

Capital

Human capital

 Capacities of individual workers. Its improvement will enhance the workforce's productivity

productivity

- Physical capital
 - Infrastructure (road, railway, etc.)
 - Machineries and equipment
 - Land, facilities
- Financial capital
 - Cash, stock, bond
- Social capital
 - Human relationship which promote the business partnership

Investment

<Education>
Vocational training;
school education
<Health>

Health services

Construction
Procurement of materials
Acquisition of land

Bond issuance
International
development aid

Grant aid, loan

governments,
particularly those
aiming to achieve
rapid economic
growth increase
the budget for
education

Budget increase does not necessarily guarantee the improvement of productivity or employment

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Countries depending on labor-intensive industries tend to increase the number of employment but with low productivity

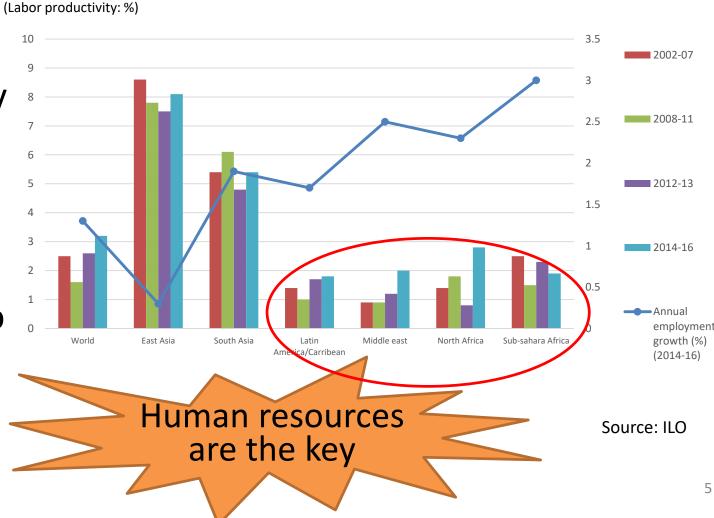
<Macro-economic viewpoint>

Employment and labour productivity growth by region

To depart from the "competition to the bottom", highly skilled workforce is key to improve productivity

<Viewpoint on poverty reduction>

Improved abilities will lead to secure jobs and income growth for the individuals





SKY SDGs and Industrial Skills Development

Global actors

Effects on the side of developing countries



What causes the skills gap? "Live together but in the different worlds"

School teacher

Our school has XX major and the graduates will have specialist certificate

Our national plan is to be a middle income country by 2030. To achieve it, we need more high skilled workers in ZZ industry.

We invest in Country

A but cannot find

competent people to

be local managers.



Government officials



I want to be an IT engineer

> We need workers who can work accurately and efficiently.

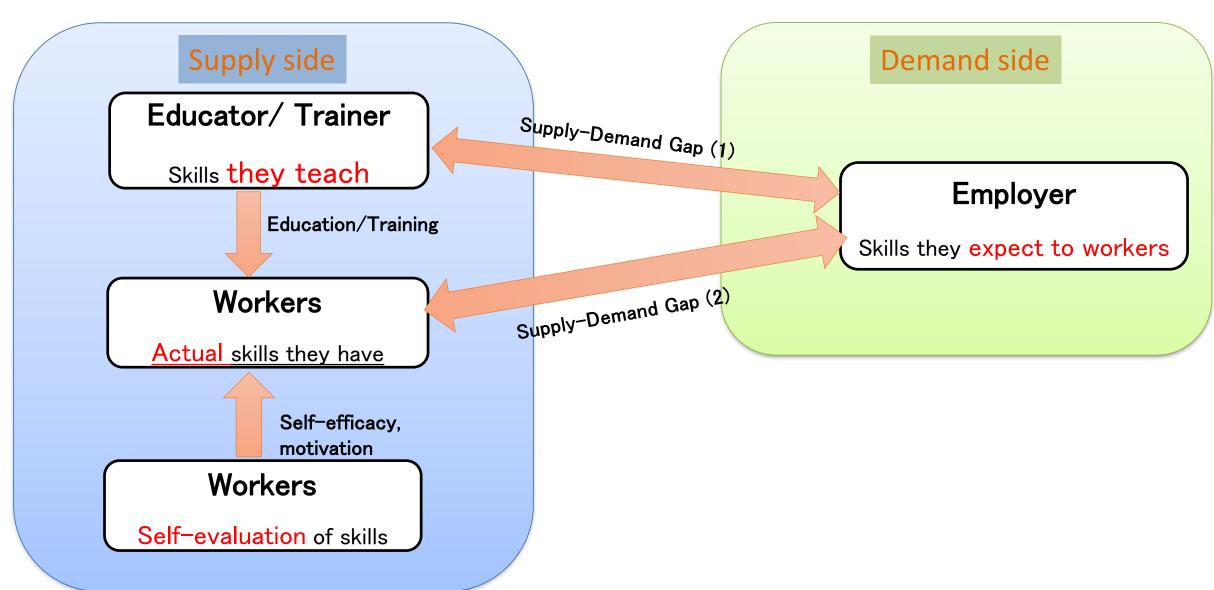


Employers

will be a fashion designer!

Youths

Twin gaps of supplies and demands of skills in the labor market





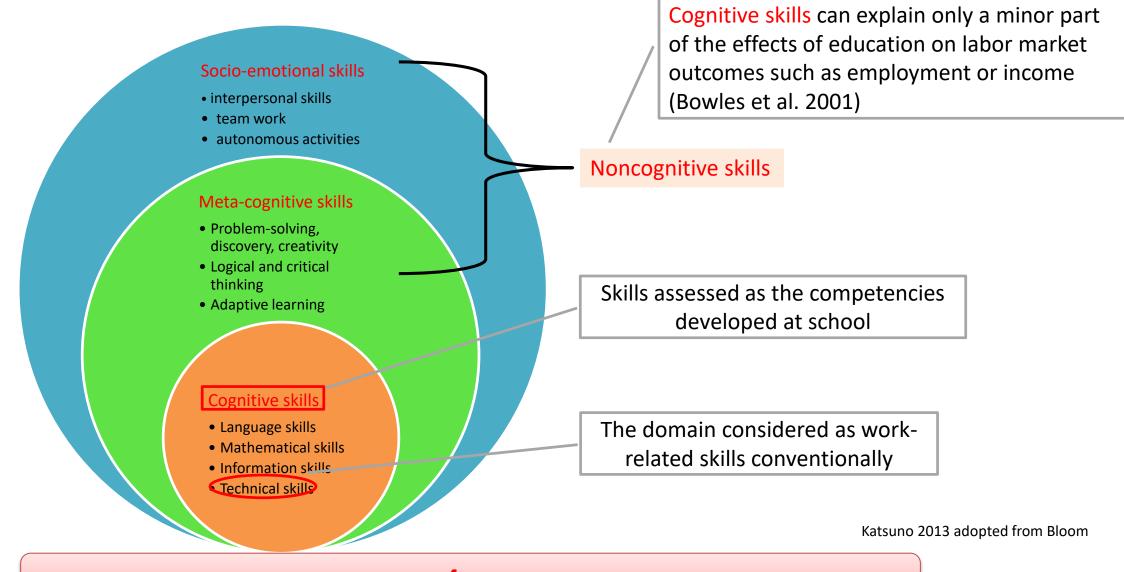
Do we know what "employable skills" are?

- Skills to solve problems in the context of work
 Identify problems → find causes of problems → find solutions → apply techniques to solve problems
- Problem-solving skills are the comprehensive whole of vocational skills, cognitive skills (literacy, numeracy and theories) and non-cognitive skills (attitudes and values)

➡Increasing attention to the noncognitive skills in



Taxonomy of cognition



Problem-solving at work \neq getting high score in exams

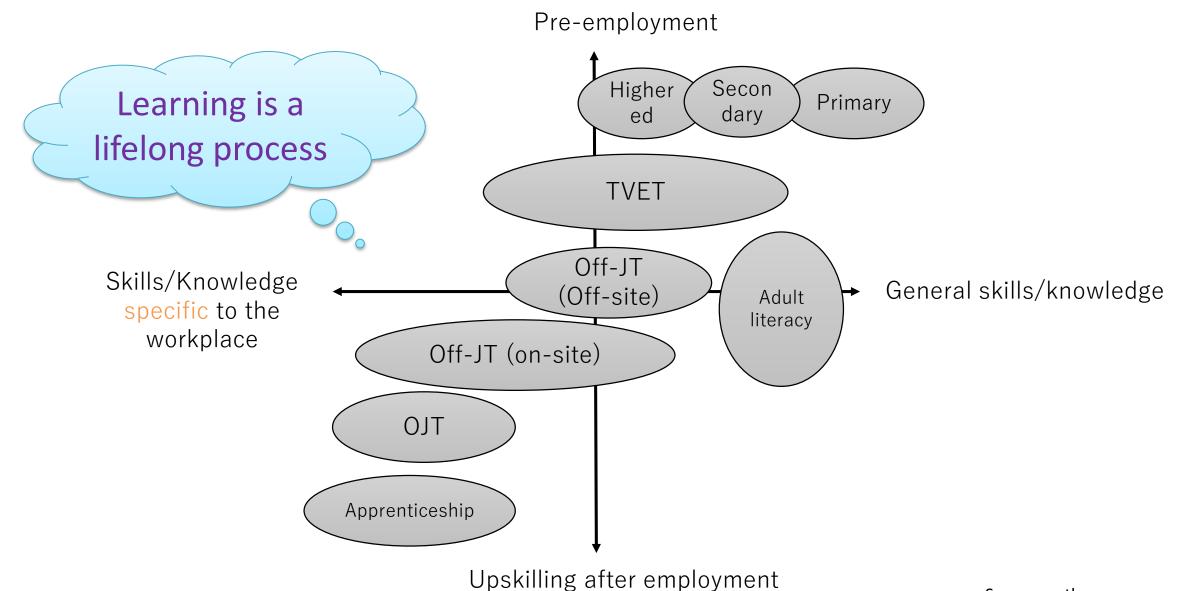


Schooling ≠ Skilling

Does the increased investment in TVET solve the problem of skills mismatch??

- How does the supply-demand gap occur?
 - The government planned the resource allocation among different education levels mistakenly → created many workers with "Over-education" and "Under-education"
 - 2. The criteria of evaluating the quality of workforce is often not the education qualification but skills ← there is no established benchmark of assessing skills
 - 3. There are significant gaps of perception between the employers and the trainers/educators, but demand side data is often unavailable → The skills development plans are made without demand side information

When, where, and what kind of skills do they need to develop?



Source: author



First thing we need to do is to diagnose the causes and nature of skills gap first

What are the contents of skills which cause the mismatch?

- Abilities to conduct specific tasks → Vocational/ operational skills
- Personalities and attitude? → Noncognitive skills
- Basic cognition which enables continuous learning?→Cognitive skills
- Educational certificate → Expansion of the school system

Are there any system-level deficits?

- Asymmetry of information on employment
 - → Matching job opportunities
- The fast pace of change of the employers' skills needs
 - →Routinized needs assessment and enhanced flexibility and responsiveness of the training system
- Legal and financial framework to promote skills development does not exist or malfunctional
 →Skills development act, Occupational standard, accreditation, skills development fund, subsidies
- Low quality of training contents and delivery
 - →Improvement of training materials and trainers

Types of intervention to promote skills development and actors' involvement

Objectives	Interventions	Role of government	Role of employers	Role of training institutions	Role of learners/ workers
Enhanced coordination among actors	Public-private partnership (PPP) to fill the supply- demand gaps	To establish the <u>coordination</u> agency for skills development, involving multiple government bodies, industries, and training institutions	 To enhance the partnership for various forms of skills development, such as in-firm training, apprenticeship, and public and private TVET Modernization of the apprenticeship system To bridge the training gaps between formal and informal sectors 		
Resource utilization for effective skills development system	Establishment of the financial incentive mechanism to vitalize the training market	 To introduce the <u>levy</u> for skills development To establish the <u>skills</u> development funds Provide <u>subsidies</u> for companies and training institutions <u>Scholarships</u> for students 	 To provide opportunities of skills development, both on-site and offsite, for employees utilizing the subsidies and loans from the government (SMEs) To provide matching funds to the government subsidies (large companies) 	Receive trainees from the companies	 To pay the tuition for training To acquire opportunities of suited training using vouchers and other government services To demand for loans and scholarships for continuous learning
Formation of quality skilled workers	Skills assessment and certification based on the problem solving skills required in the world of work	 Establishing the occupation standard for respective industries and levels of skills Establishing the mechanism to accredit training providers who follow the occupation standard 	 To input the needs of employers in developing the occupation standard To take part, as the examiner, in the skills assessment following the occupation framework 	Subsidies)	To sit for the skills assessment on the national occupation standard, in addition to the TVET certification ct provision of
	Strengthening the practical training	Matching the TVET interns with the companies through the skills development coordination agency	To accept interns (practical trainees) from TVET	at which stuintern Improve the school practica gover	is only a minor part of the nment's role in development
	Direct provision of TVET to supplement the training by private TVET and employers	Direct management of public TVET			
Promotion of employment	Matching recruiters and job searchers	Establishment of an employment agency	Open recruitment (reduce closed recruitment)	Make the info of students and graduates available for recruiters	Proactive job search



Who demand for the government-led skills development most?

- The recent neo-liberal conception of skills development demands the government more coordinative role than direct involvement in training provision
 - To mitigate the asymmetry of information between the supply and demand
 - To <u>incentivize</u> the skills development by reducing the financial and system barriers
- Large companies (e.g. factories of the global multinationals) have their own priorities and strategies of workers' skills development and promotion
 driven by their own internal labor market
- TVET demands are higher among SMEs and informal sectors which do not have the capacity to internalize their workers' training
- Linkage between the plans for industrial development and skills development is a key

COVID and the new demands for skills development

- Vocational training without contact?
 - Increased inequality of learning opportunities ← aggravation of existing problem
 - Lack of access to school, alternative tools of learning, or learning support
 - Restriction of practice-based training ← New challenge
 - Despite TVET reforms to increase relevance, a large part of the practical training and internship were suspended
- Changed mode of business operation
 - Enhanced transfer of goods without human interactions
 - ← More reliance on IT and indirect communication skills
- Problem-solving skills in the era of with-COVID
 - Performance evaluation will be more outcome-oriented than sharing the process
 - Attentive and accurate work without visible outcomes will not appeal to the supervisor
 - Capacities to verbalize (= express in written or spoken words instead of actions or feeling) the work-related concerns and achievements will become more important

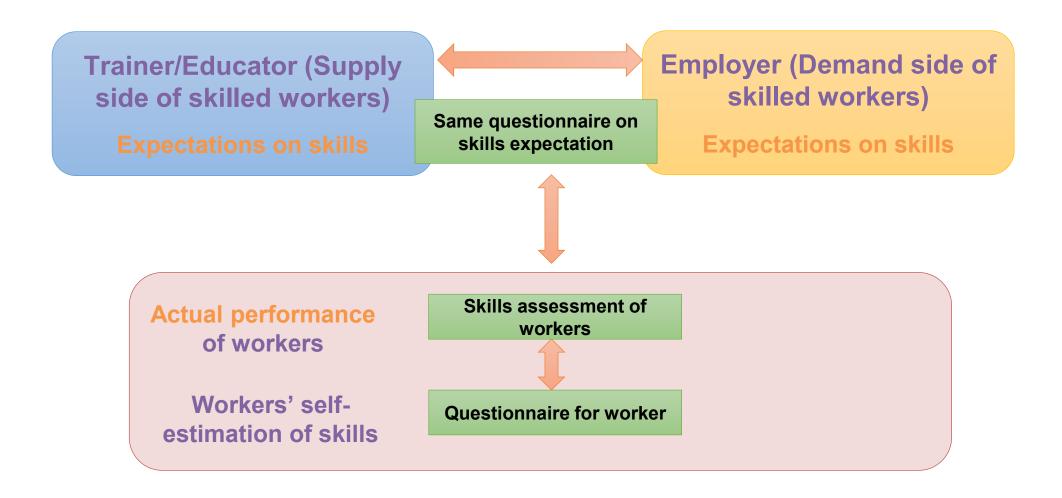


Skills and Knowledge for Youth (SKY) project

We can diagnose the skills of workers from multiple angles

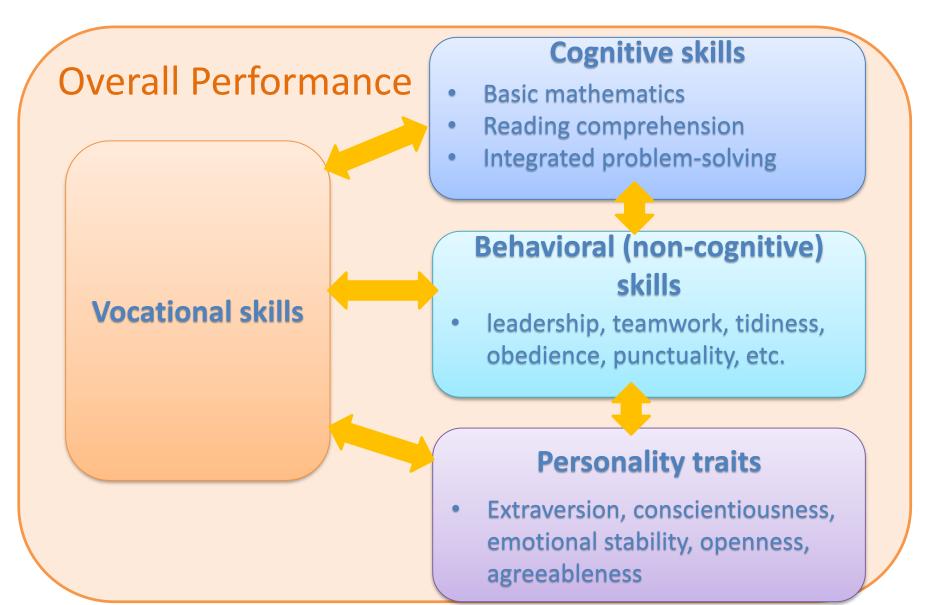
- Our module provides pictures about the complex relationships among <u>cognitive</u>, <u>non-cognitive</u> (<u>behavioral</u>), <u>and vocational skills</u>
- We can compare the perspectives of different stakeholders and identify the exact nature of gaps
- We can provide evidence-based proposals for improving the skills development plan

1. Identify the exact contents of gaps among multiple stakeholders



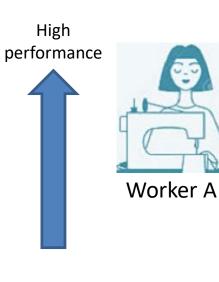


2. Diagnosis of Overall Performance of workers and students





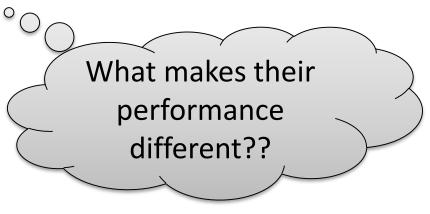
3. Identification of factors which influence the performance



Low

performance





Educational background?

Years of experience?

Home background?

Gender?

Commuting distance?

Absenteeism?





Worker B



More information about us

Website

https://skills-for-development.com



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SKY Newsletters (biweekly)

