

EARNING to realize education's promise

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Education generates multiple benefits





Yet, investments are not yielding maximum results



Education can't do it alone...

... too many children and young people enroll in school but they do not learn

LEARNIN

Globally, schooling doubled since the 1980s





Average years of schooling

Source: Montenegro & Patrinos (2014).



Still, firms around the world can't find skilled workers...



Schooling is not the same as learning



The world is facing a "Learning Crisis"



Years of Schooling are not the same as Learning

Average years of schooling of 25- to 29-year-olds, unadjusted and adjusted for learning



PISA 2015, selected countries



Brazil

Progress in Math (PISA 15-year-olds)





Brazil

Time to reach OECD average in **Math** (PISA 15-year-olds)





Brazil

Time to reach OECD average in Math and Reading (PISA 15-year-olds)





The learning crisis becomes a skills crisis





Weak foundational skills affect Europe too. .





Source: World Bank staff calculations based on PISA 2015



students



Source: World Bank staff calculations based on PISA 2015



What matters for growth is learning

Annual average per capita growth in income 1970-2015, conditional on test scores, years of schooling, and initial income





Nearly 2 billion working age adults (15-64) around the world have low literacy skills



Note: Compiled by WDR 2018 Team, with data from Larson and Valerio (2017).



Zooming in: Workforce Skills



Worker Productivity and Employability are a function of supply, demand, and other factors





Zooming in on **Skills Gaps**: quantity and quality issues









Globally, just 35% of primary entrants complete upper secondary education; In SSA, less than 25%



Note: Compiled by WDR 2018 Team, with data from UNESCO (2010, 2015) and WIDE (2017). Estimates are for circa 2010





Zooming in on **Low Quantity:** Implications of leaving school prematurely





Zooming in on **Low Quality**: understanding skills interaction





A: Decision making, communication, grit, self-control B: Problem-solving, organizational skills C: Mid-level technical, high-level technical





Wealthier countries have higher literacy levels, but all countries face low-literacy challenges

Percentage of working-age population relative to minimal level of foundational literacy (2011-14) Level 2+ Level 1 Middle-income Ghana Kenya Bolivia Turkey Colombia Vietnam Georaia Serbia Armenia Ukraine Russian Federation High-income Chile Israel Italy Spain Greece Singapore Slovenia France Poland United States Germany Ireland United Kingdom Canada Denmark Median, HICs 75 50 25 50 75 100 0 25 Percent

Low Literacy Proficiency: Ability to access information

Medium-High Literacy Proficiency: Ability to identify, integrate, and evaluate information



Literacy proficiency: Low Medium–High Note: Compiled by WDR 2018 Team, with data from PIAAC (2011-2014) and STEP (2011-2014).



Formal education in different countries vary greatly in delivering literacy proficiency

Years of Formal Education Needed to Reach Basic Level 1 Literacy Proficiency					
9 years (Lower Secondary)	12 years (Upper Secondary)	16 years (Tertiary)			
Armenia*	Canada	Bolivia*			
Australia	Chile	Ghana*			
Denmark	Colombia*	Kenya*			
Estonia	France				
Finland	Germany				
Georgia*	Israel				
Ireland	Singapore				
Japan	Slovenia				
Korea	Turkey				
Netherlands	United States				
Norway					
Poland					
Serbia*					
Slovak Republic					
Sweden					
Vietnam*					



Note: Data from PIAAC , STEP Skills Survey (2011-14). * denote STEP data countries oor **qualit** of general

Zooming in on **Low Quality**: implications

Workers with higher literacy proficiency are more likely to use their skills at work, and have higher productivity on the job





Note: OECD PIAAC Data, 2012; Worker Productivity Data from WB, 2011. Graph Weighted by per worker output in 2000

Poor **qualit**y

of general education

Zooming in on **Low Quality**: implications

Workers with higher literacy proficiency are more likely to enter white-collar, better paying, stable jobs





Note: Data from STEP Skills Survey (2014).





Poor **qualit** of general education Zooming in on **Low Quality**: cognitive and non-cognitive

Both quantity and quality of general education are correlated with better socioemotional skills



Note: Data from STEP Skills Survey in Serbia (2014).



Zooming in: Understanding Young People's Pathways





Young People Follow Different Pathways:



- \rightarrow Join the labor force / find employment
- → Enroll in basic or post basic-equivalent job training
- → Pursue further education
- \rightarrow Become inactive (not in school, not working)

But, for many, accumulated skills deficits make it difficult to obtain a quality job





Training for Jobs

Pathways

- Join the labor force / find employment
- Enroll in basic or post basicequivalent job training
- Pursue further education
- Become inactive (not in school, not working)

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Workplace Training

Short-term Training Programs

Technical and Vocational Programs (Secondary or Tertiary)

> Academic Tertiary Programs

Neither in school not working

Successful Program Features 1. Establishing Partnerships

2. Combining Classroom and Workplace Learning

3. Identifying Capable Teachers and Trainers

4. Making Information Available for Decision-making



Options

Destinations

Implications

Less than 15% of young people receive workplace training, those who do tend to already have better literacy or education





Note: Data from STEP Skills Survey (2011-14).

Even fewer young people enroll in short-term training programs. STTs are costly, and less than 30% have positive, significant impacts



Note: Adapted from Kluve and others 2016. Standard mean differences of .2, .5, .8 are commonly considered as small, moderate, and large effects respectively.



Options

Implications

Globally, more students still leave school early than enroll in either general or TVET upper secondary education



Notes: compiled by WDR 2018 team, using data from UIS (2016).



Options

Destinations

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Depending on the target population and context, interventions have to be tailored;

Four Successful Training Program Features

1. Establishing Industry Partnerships

Sector/industry programs use intermediary institutions—usually network aggregators or nonprofits with industry-specific expertise—to work with employers in a given industry to anticipate job openings, design program content, and maximize potential placement.

2. Combining Classroom and Workplace Learning

Apprenticeships are a common way to combine classroom and workplace learning, and may last from one to three years and take place at the secondary or post-secondary level or as an alternative to upper secondary education—giving students the opportunity to engage in industry-supervised workplace practices.

3. Identifying Capable Teachers and Trainers

Successful training programs require teachers with industry expertise to ensure content is aligned with job requirements and provide recognized career development tracks for technical trainers and instructors.

4. Making Information Available for Decision-making

Career information interventions are usually grouped into career education programs, which might include providing direction on coursework selection, and career planning, which is usually provided on an individual basis. Options

Destinations

Implications

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Program Examples

1. Establishing Industry		2. Combining Classroom and	3. Identifying Capable Teachers
Partnerships		Workplace Learning	and Trainers
The Wisconsin Regional Training	Jewish Vocational Service–Boston	State Apprenticeship Programs–WA,	Polytechnics
Partnership (USA)	(USA)	VA (USA)	(Ghana)
Per Scholars–New York City (USA)	McKinsey Generation Program	Lei Do Aprendiz	Vocational Colleges
	(India, Kenya, Mexico, Spain, USA)	(Brazil)	(Malaysia)
		Apprenticeship Program for Women (Malawi)	TVET Trainers (Algeria, Bahrain, Egypt, Jordan, Lebanon, Morocco, Oman, Saudi Arabia, Tunisia, UAEs)





Where do educational systems breakdown?



Policy measures to improve learning:



Assess learning to make it a serious goal

Act to make schools work for all learners





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