Strategies to Achieve Pro-Poor Growth in Brazil, China, India and Europe: The Case of the Education Sector

InWEnt's International Conference Centre

Berlin 10–11 December 2009

PISA in developing and developed countries -Comparative lessons to be learned for making education more pro-poor growth directed

> Bernard Hugonnier OECD Deputy Director for Education

OutlineI. Presentation of PISAII. What are the educational competitive
advantages of OECD countries?III. Are attitudes to science of students from
non-OECD countries more positive?IV. What are the main policy issues?V. What is the best education based
development strategy?V. Conclusions

PISA: key objectives PISA provides: Information on how well education systems prepare students for life by equipping them with the appropriate skills A reliable assessment of learning outcomes A comparative international evaluation and analysis providing indispensable information to interpret national results

PISA assesses

Reading literacy

Using, interpreting and reflecting on written material.

Mathematical literacy

Recognising problems that can be solved mathematically, representing them mathematically, solving them.

Scientific literacy

Identifying scientific questions, recognising what counts as scientific evidence, using evidence to draw conclusions about the natural world

	PISA assessment schedule							
2000	2003	2006	2009	2012				
Readin	g Readin	g Reading	Reading	Reading				
Maths	Maths	s Maths	Maths	Maths				
Scienc	e Scienc	e Science	e Science	Science				
	Proble solving	m 9						
CD								



	Non-OECD participating countries in PISA 2006				
	Region	Countries			
	South America	Argentina, Brazil, Chile, Colombia, Uruguay			
	Africa	Tunisia			
	Europe	Bulgaria, Croatia, Estonia, Latvia, Lichtenstein, Lithuania, Montenegro, Romania, Russia, Serbia, Slovenia			
Middle East		Israel, Jordan, Qatar			
	Central Asia	Azerbaijan, Kyrgyzstan			
	Asia Pacific	Hong-Kong China, Indonesia, Macao China, Chinese Taipei, Thailand			
((OFCD					



































Attitudes to science						
	Number of criteria	Occurrences where non OCDE doing better than OECD				
Overall value of science	5	5				
Enjoyment of science	5	5				
Instrumental motivation	5	5				
Personal value of science	5	5				
Interest in scientific careers	4	4				
Concerns for environment issues	6	5				
Optimism about the future of CD environment	6	6				











Number of countries achieving both quality and equity

Benchmark: OECD average

Seven OECD countries = Australia, Canada, Finland, Ireland, Japan, Korea, UK

Four non OECD countries: Chinese Taipei, Estonia, Hong Kong China, Macao China

Benchmark: non OECD average

Nine non OECD countries: Croatia, Estonia, Hong Kong China, Israel, Jordan, Latvia, Macao China, Russia, Chinese Taipei







	Variation i	n studer	ıt p	perfor	mance
				OECD	Non-OECD
	Total average variatio			100	86.3
	Variation between schools			61	34
	Variation within schools			113	61
	Number of countries where variation between schools is higher than within schools		n	21 (72%)	23 (85%)
Total variation is smaller in non- OECD countries		between scho also smaller in OECD countr	n pols is n non- ies so th is O		but the number countries where ariation between shools if higher an within schools larger in non- ECD countries







Education and economic development

Two models

- Some countries (East Asia) have massively invested in school education
 - e.g. in Korea public expenditure on education has been focusing on primary and secondary sectors
 - This had a direct effect on productivity in manufacturing industry
 - Higher education was provided by sending students abroad
 - The result was a mass education of good quality and high equity
 - In the second stage, investment was made in higher education

Education and economic development

In other countries (e.g. some Latin American ones, India), the emphasis has been on higher education

- e.g. in Venezuela 43% of expenditure on education is on higher education
- The effect on the economy is low, graduates do not easily find jobs
- The result is an elitist education of average quality and low equity

















