



# The African Education Summit Sommet Africain de l'Education

Royaume du Maroc



Ministère de l'Education Nationale  
de l'Enseignement Supérieur  
de la Formation des Cadres  
et de la Recherche Scientifique

## Discovery Education Opening Ceremony

**"From poor to fair to good to great: How the world's most improved school systems keep getting better."**

**Mr Chinezi Chijioke**

Head of Africa Education Practice

McKinsey & Company



OPENING CEREMONY PARTNER





# *From poor to fair to good to great:* How the world's most improved school systems keep getting better

**McKinsey & Company**

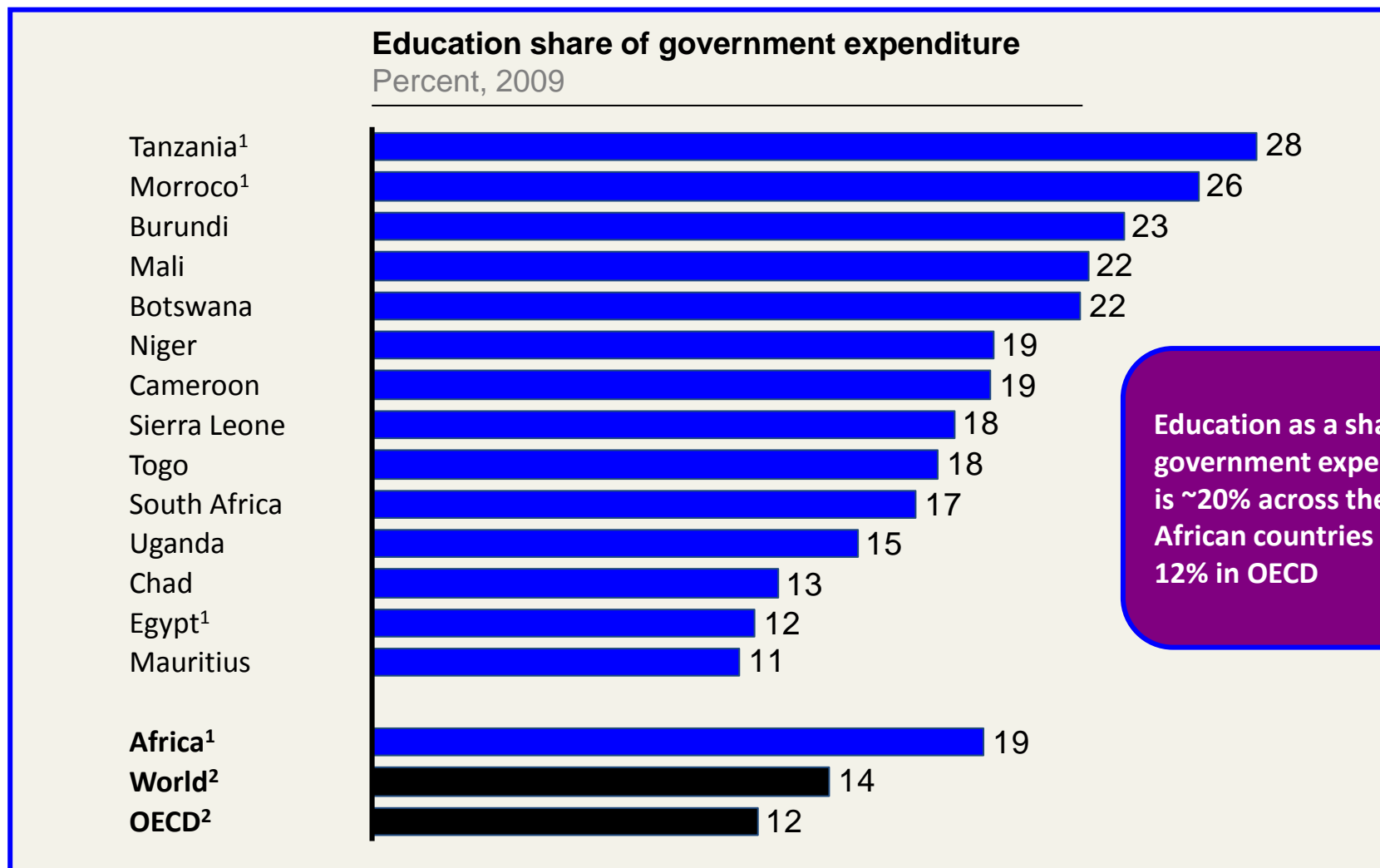
Presentation to the Africa Education Summit  
Rabat, Morocco  
July 12th 2011

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# Africa invests a substantial share of its resources in education

COUNTRIES LISTED BASED  
ON DATA AVAILABILITY

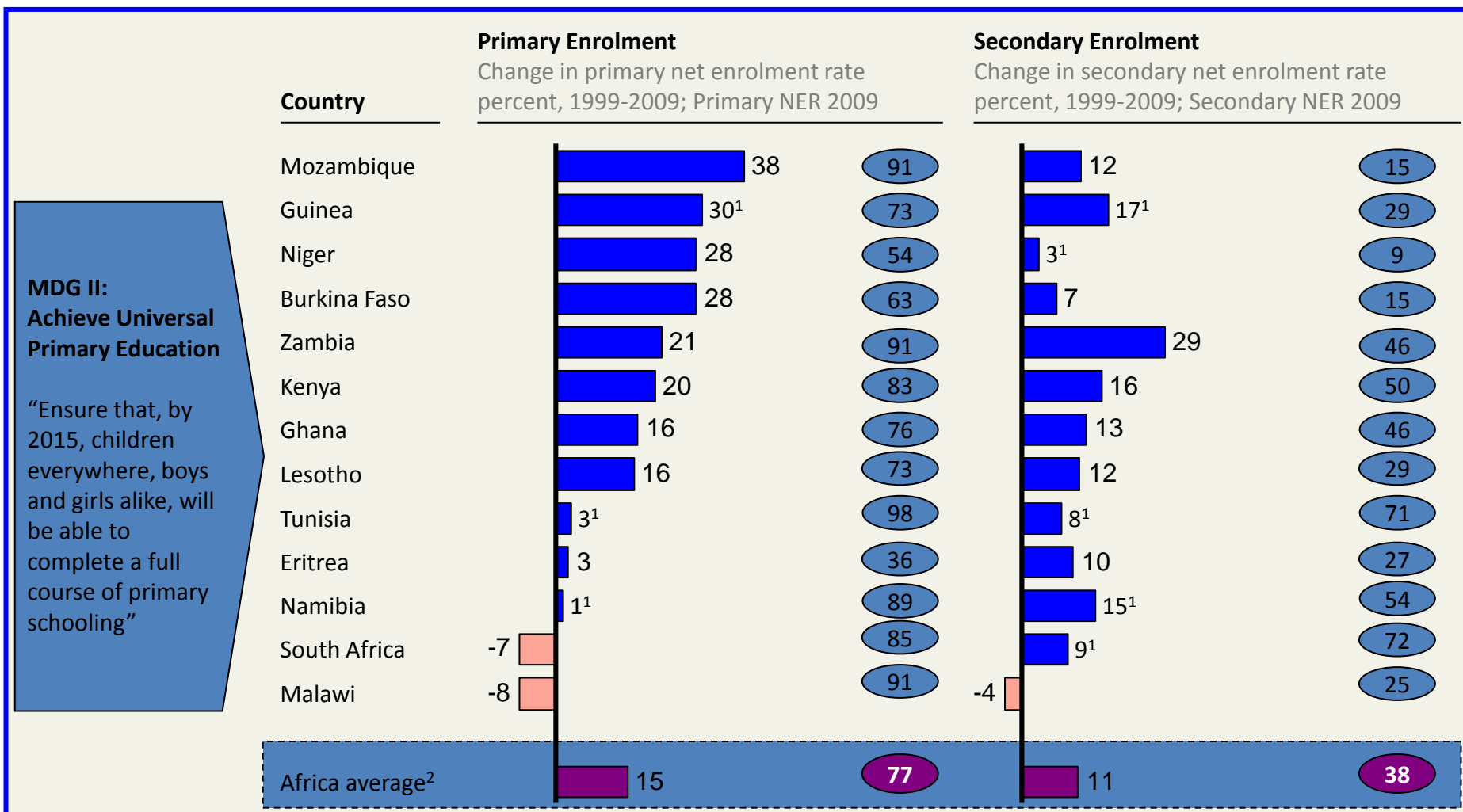


1 Latest data available: 2008

2 Latest regional data available: 2007 for OECD, 2004 for World average

# African countries have made large strides in increasing access to schooling, although absolute secondary enrolment remain low

LIST BASED ON DATA AVAILABILITY



1 2008 data used where 2008 data not available. For secondary education 2007 data used for Guinea, Niger, Namibia and South Africa For Kenya and Tunisia 2000 secondary NER used in lieu of 1999

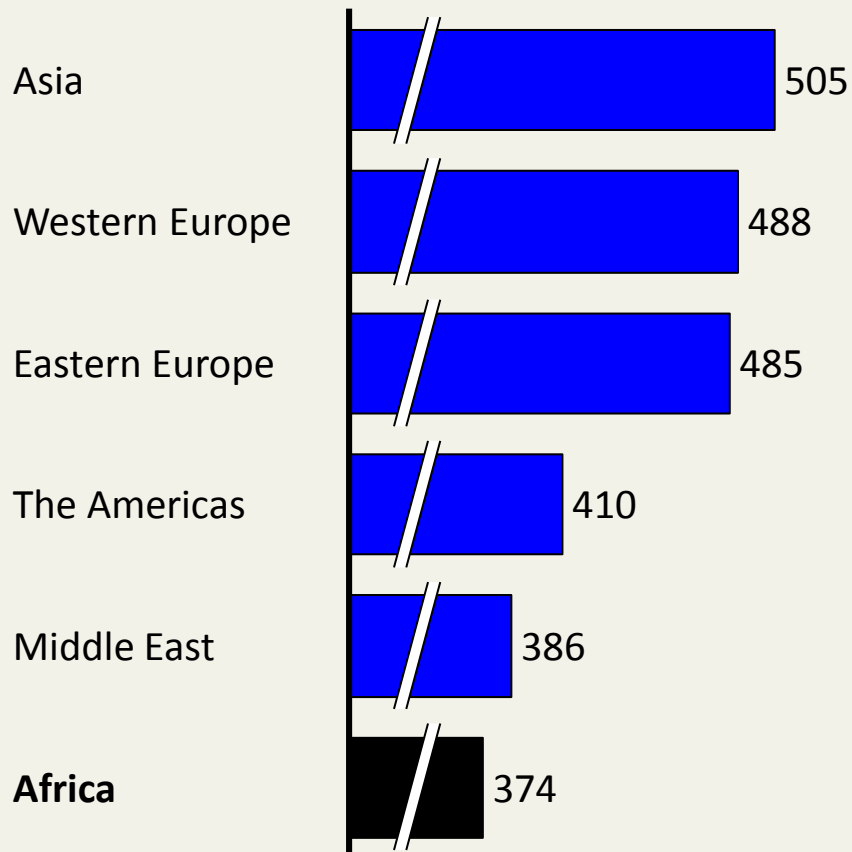
2 Based on 13 countries listed here, chosen based on data availability

SOURCE: World Bank World Development Indicators, MDG Monitor,

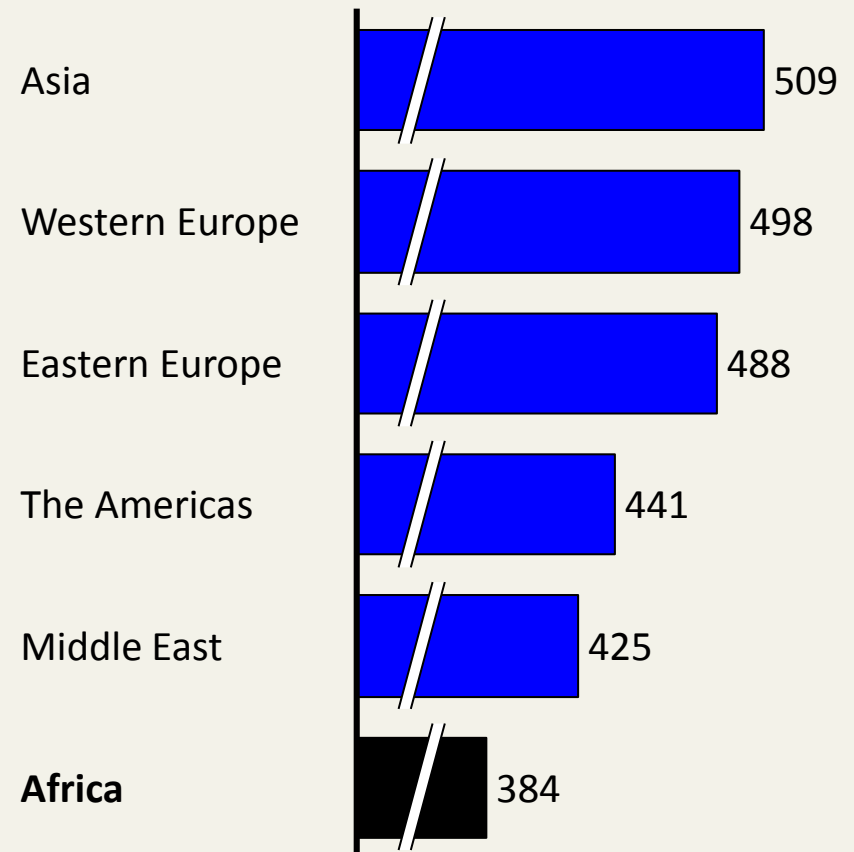
## Africa has lowest student achievement levels in the world

### 2007 Trends in Maths and Science Survey, TIMSS; 8<sup>th</sup> Grade Average of country scores in each region

#### Maths





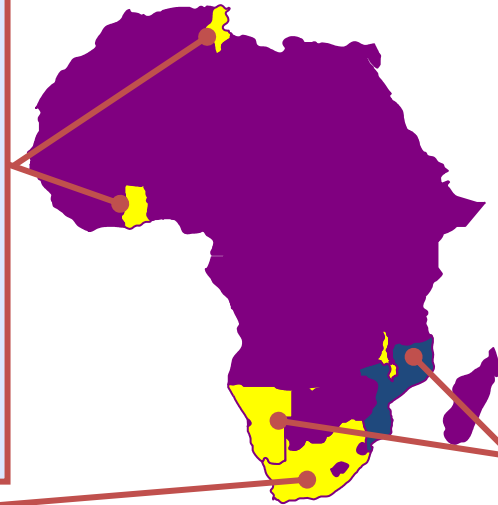
#### Science



However, there are some encouraging student achievement examples across the continent

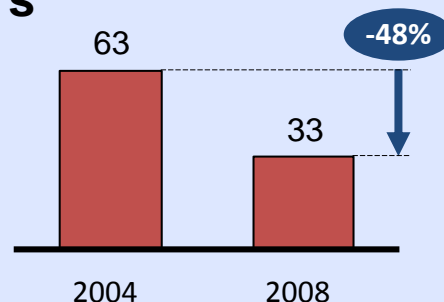
**Ghana & Tunisia achieved the world's largest gains on 8<sup>th</sup> grade TIMSS from 2003-2007 (of 33 countries)**

	Maths	Science
 <b>Ghana</b>	• Largest gains (+33)	• Largest gains (+48)
 <b>Tunisia</b>	• 5 <sup>th</sup> largest gains (+10)	• 2 <sup>nd</sup> largest gains (+41)



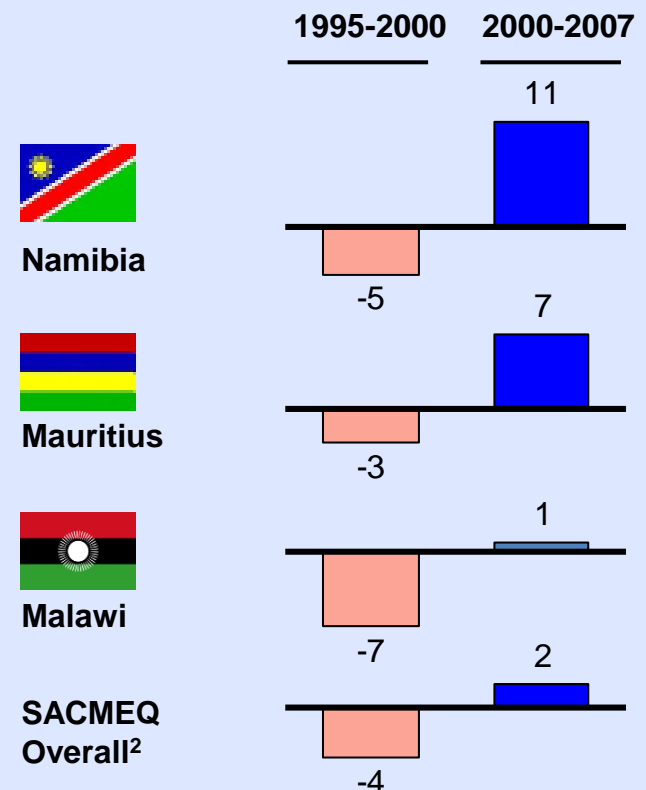
**A South African province has halved the literacy gap between the top and bottom wealth quintiles over 4 years**

Difference in percent of learners who are literacy-proficient in the top and bottom wealth quintiles in one Province



**On SACMEQ, several countries that declined from 1995-2000 increased significantly from 2000-2007**

Percent change in grade 6 literacy scores over period<sup>1</sup>

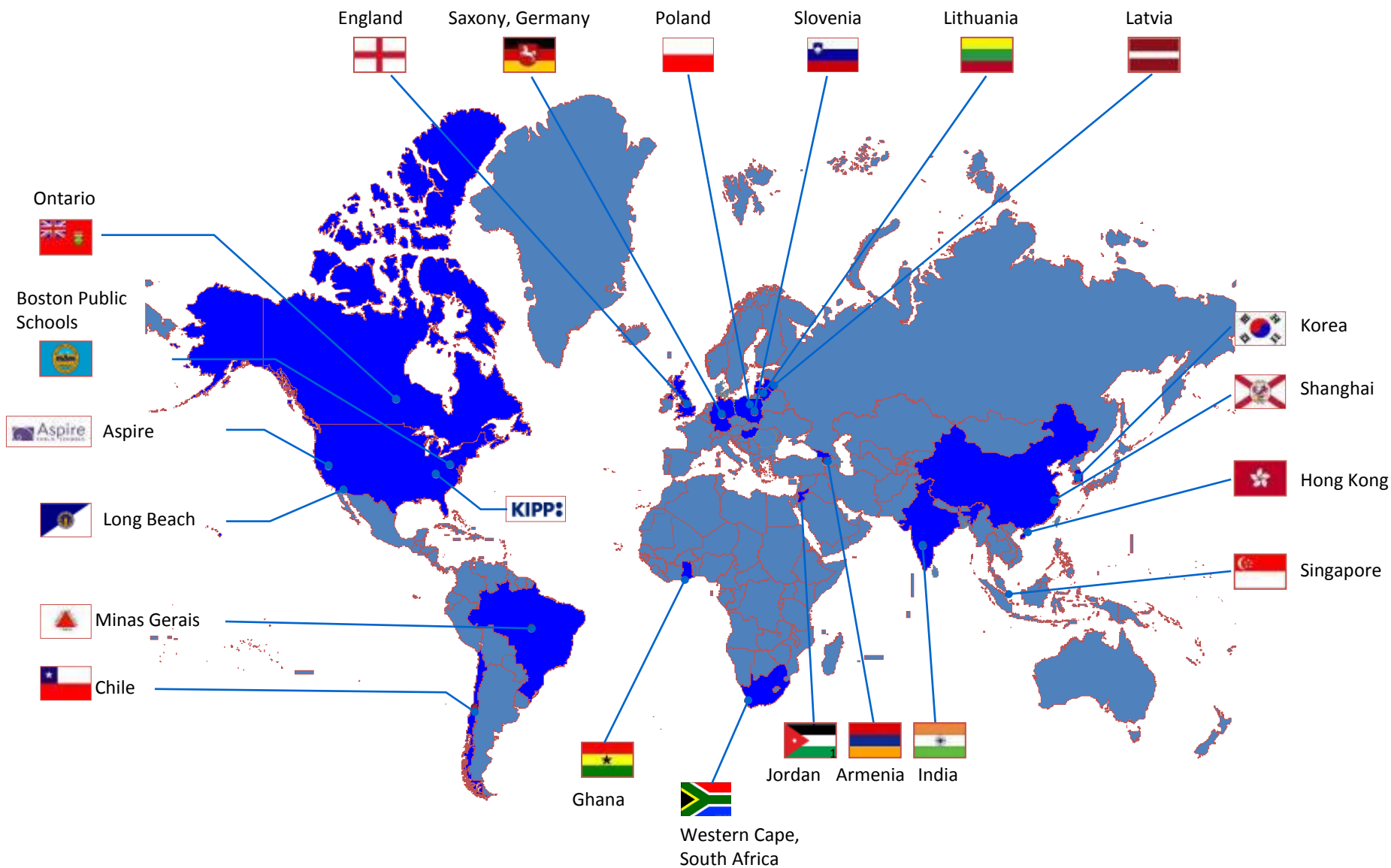


<sup>1</sup> Calculated as [(Score II – Score I) / (Score I)]. Using absolute change shows the same pattern and order of countries in each respective test

<sup>2</sup> Average of 14 countries participating

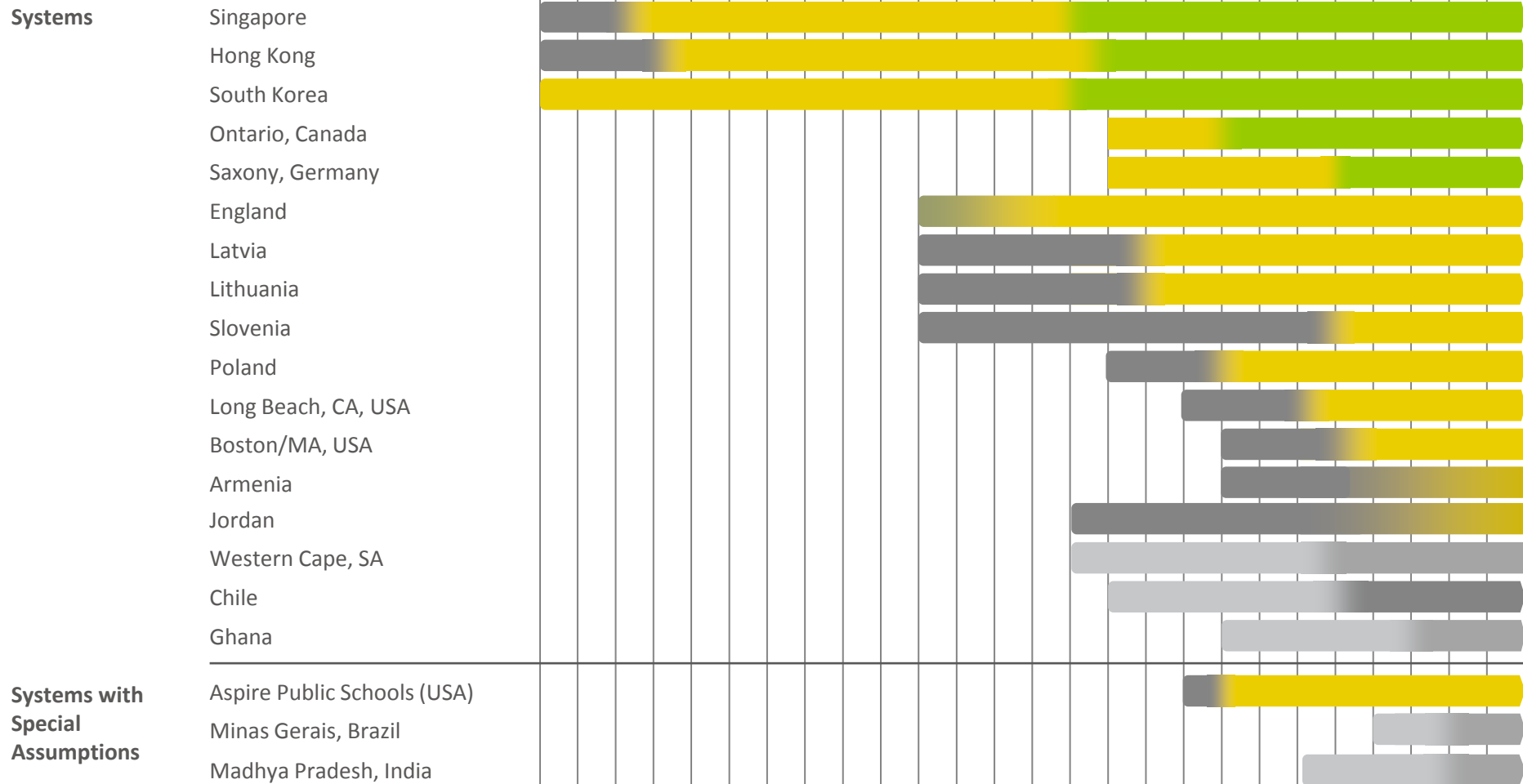
Source: TIMSS, South Africa Department of Education, Final Reports, 2002-2008, World Bank World development indicators, MDG Monitor, SACMEQ

In 2010, we published a report on school system improvement across a wide range of countries and contexts



Those systems represents a continuum of improvement from poor to fair to good to great

Poor<sup>2</sup> Good<sup>2</sup>  
Fair<sup>2</sup> Great





## Lesson I

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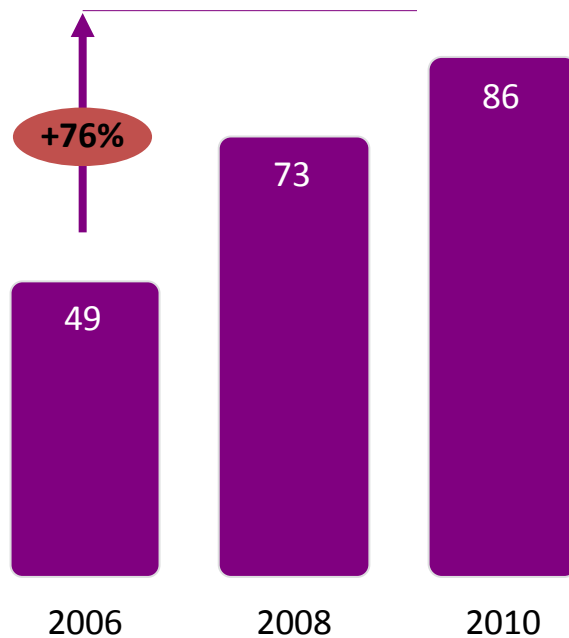
A system can make significant gains from wherever it starts – and these gains can be achieved in as short as six years

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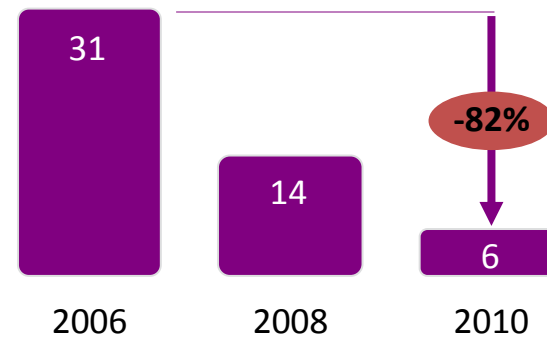
# Significant improvement is possible in 4-6 years: Minas Gerais, Brazil

Following implementation of the literacy reform in 2006, Minas Gerais improved literacy levels and rose to the top of Brazil's national assessment

Percentage of 8 year olds reading at recommended level



Percentage of 8 year olds reading at poor levels<sup>1</sup>



From 2007 to 2009, Minas Gerais also rose from 5<sup>th</sup> place to 1<sup>st</sup> place among Brazilian states on Brazil's national (IDEB) assessments

<sup>1</sup> Poor performance level is defined by assessment as students are only able to read words

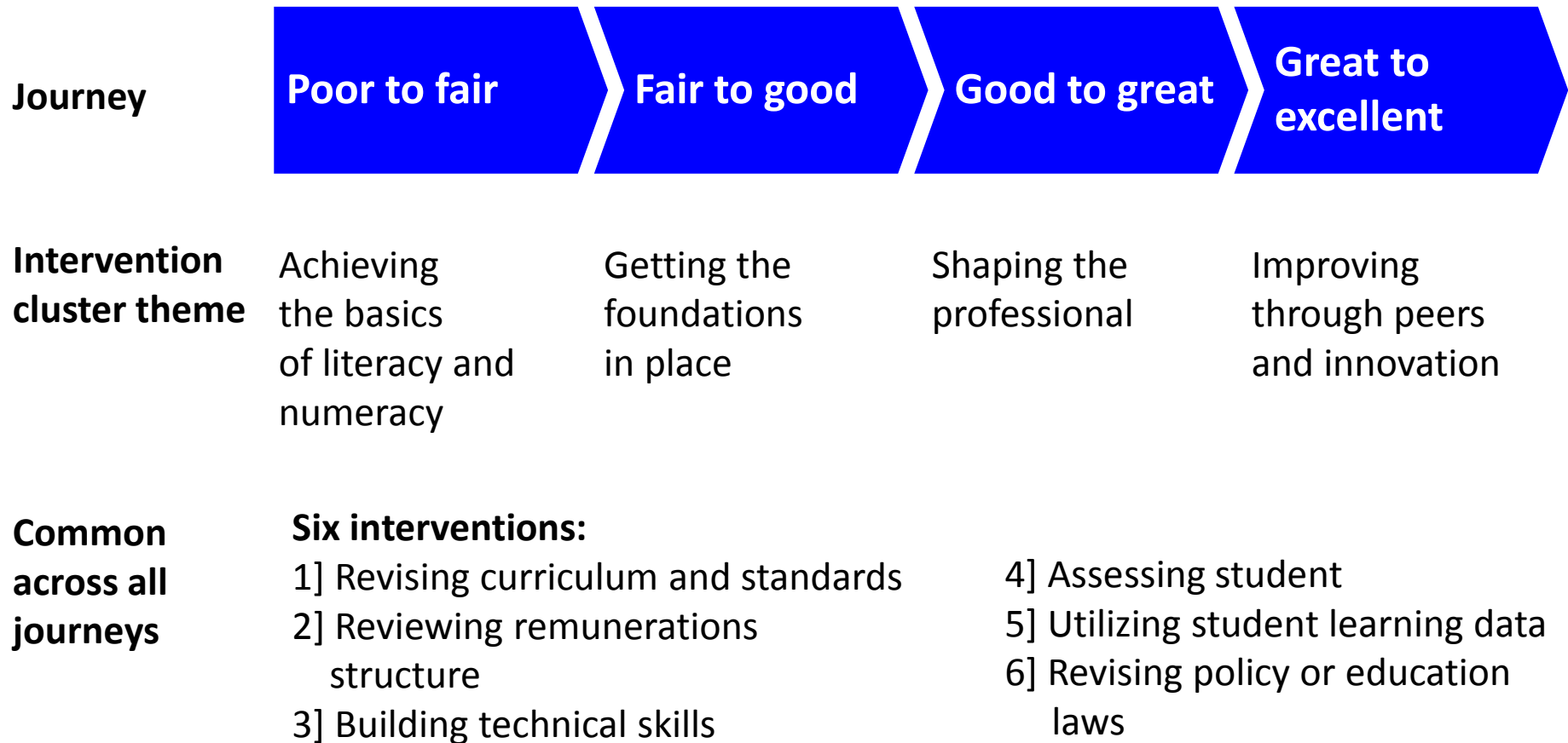
## Lesson II

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Each stage of the school system improvement journey is associated with a unique set of interventions, from poor to fair to good to great to excellent

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Our research finds that a unique ‘intervention cluster’ exists for each improvement journey, with six interventions common across all journeys



## Poor to fair journeys focus on achieving basic literacy and numeracy

Theme	Intervention types
Providing scaffolding and motivation for low skill teachers and principals	<ul style="list-style-type: none"><li>▪ Scripted lessons</li><li>▪ Instructional time on task</li><li>▪ Coaching on curriculum</li><li>▪ School visits by center</li><li>▪ Incentives for high performance</li></ul>
Getting all schools to minimum quality standard	<ul style="list-style-type: none"><li>▪ Targets, data, and assessments</li><li>▪ Infrastructure</li><li>▪ Textbooks and learning resources</li><li>▪ Supporting low performing schools</li></ul>
Getting students in seats	<ul style="list-style-type: none"><li>▪ Expand seats</li><li>▪ Fulfill students' basic needs</li></ul>
Systems included	Chile (2001–05) Madhya Pradesh (2006+) Minas Gerais (2003+) Western Cape (2003+) Ghana (2003+)

These interventions enable low-capacity low-performance systems to establish **fundamentally sound instruction with consistency** across underperforming schools and classrooms

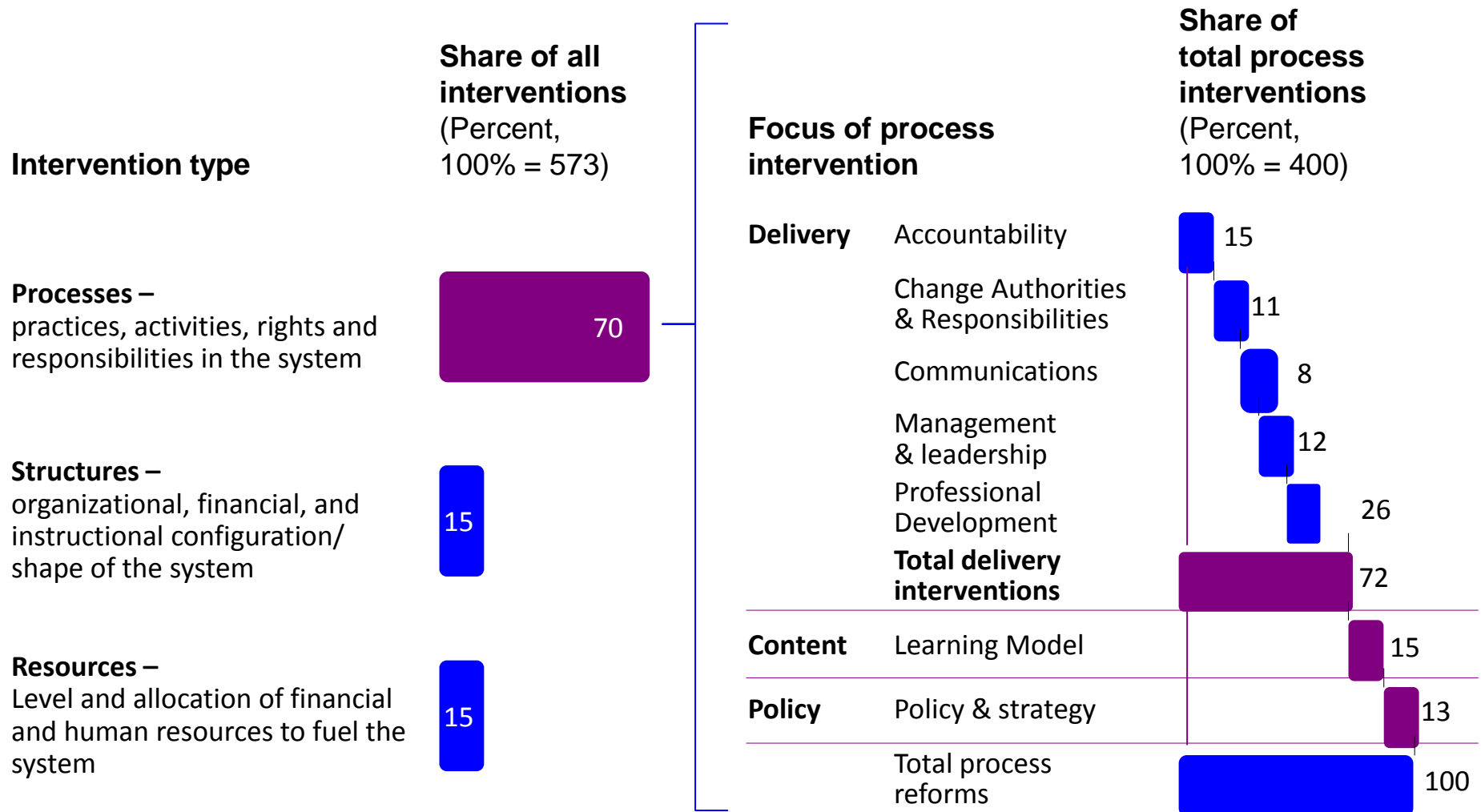
## Lesson III

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While 'structure' and 'resource' interventions dominate the debate, 'process' deserves as much attention

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# Process is the most prevalent intervention type among improved school systems, relative to structure and resource



In addition...

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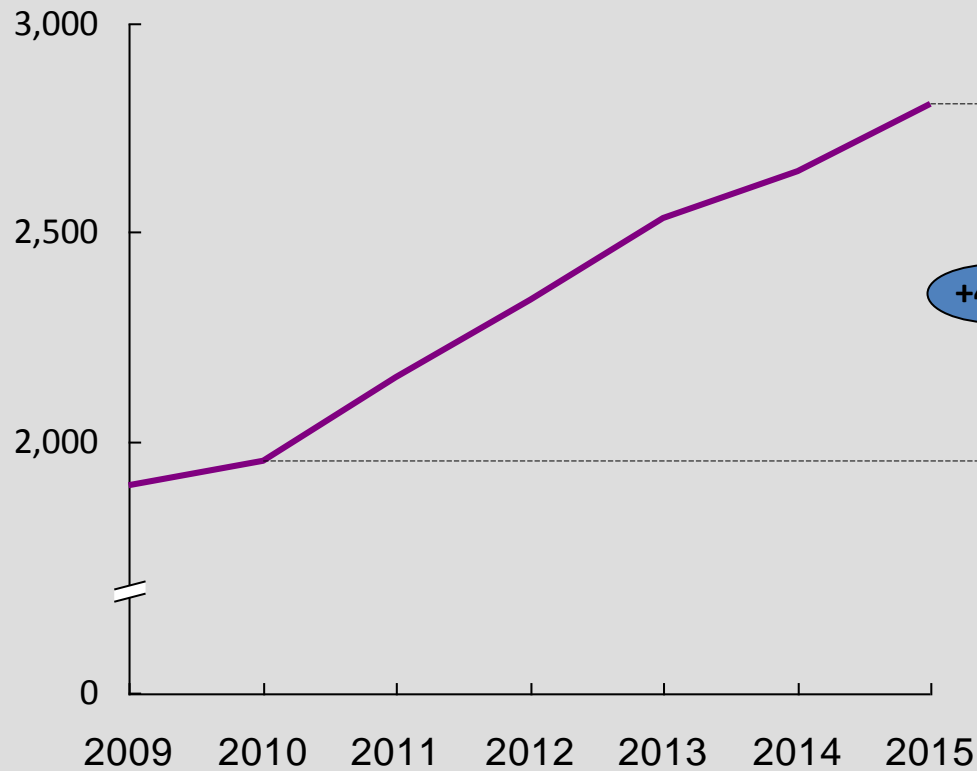
While education ICT investment is growing, its potential to transform teaching and learning has yet to be fully unleashed

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While education ICT investment in MEA is large and growing, its potential to transform learning has yet to be fully unleashed

**Forecasted ICT spending in the educational sector in MEA**  
\$ million

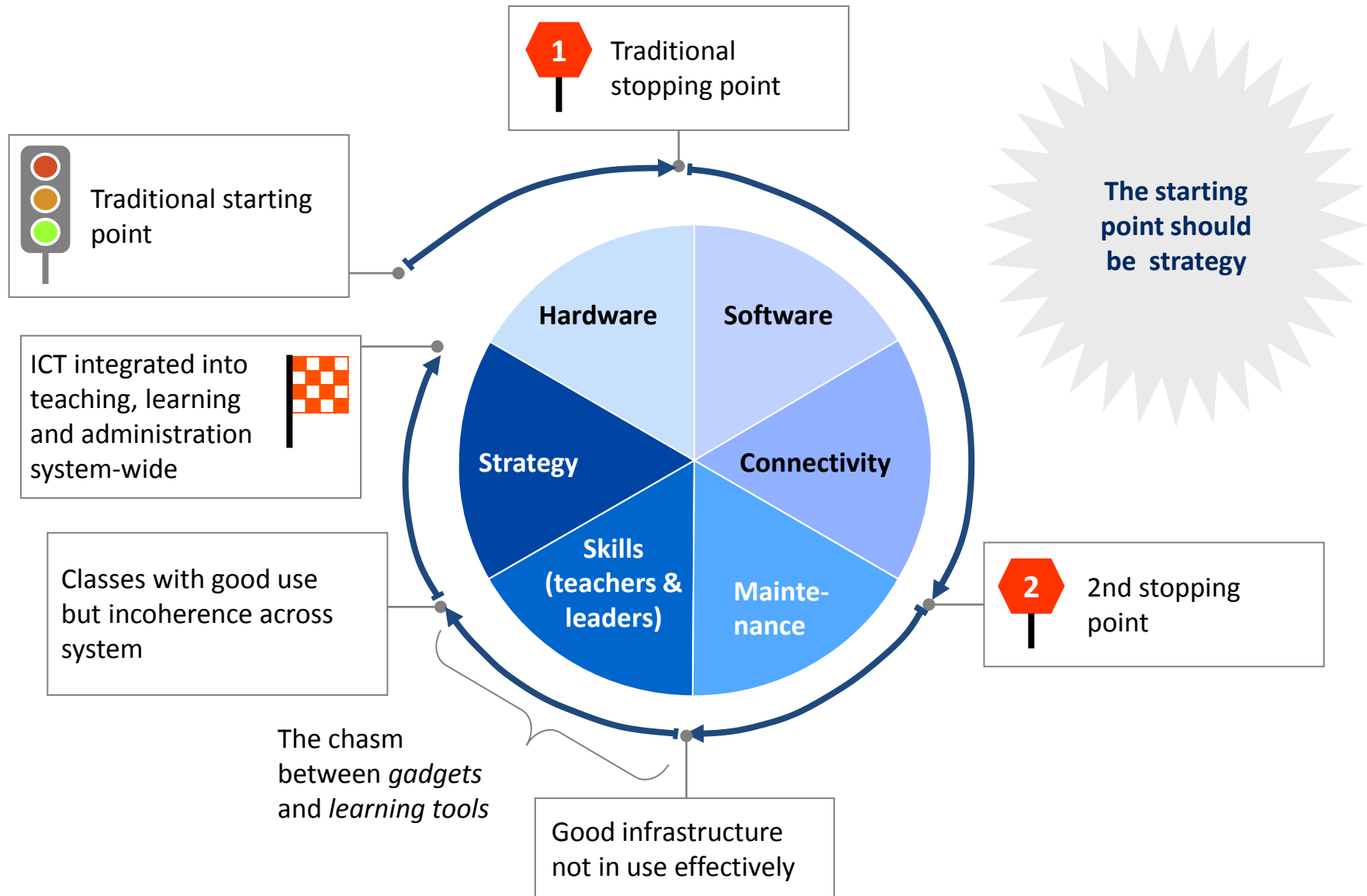


“The development of ICT in schools is progressing unevenly across and within schools and technologies...the evidence on attainment is somewhat inconsistent, although it does appear that, in some contexts, with some pupils, in some disciplines, attainment has been enhanced”

– Becta, UK, 2008

# The journey to effective system-wide ICT integration

CONCEPTUAL

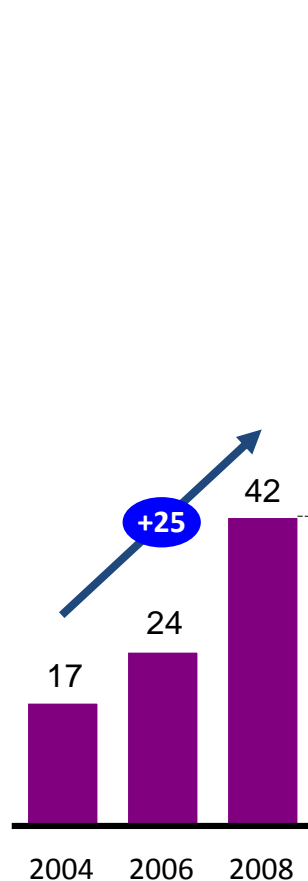


# Significant improvement is possible in 4-6 years: W. Cape, S. Africa

South Africa's Western Cape Province narrowed the literacy inequality gap in four years: among 3rd graders, the bottom three quintiles have caught up to the second richest

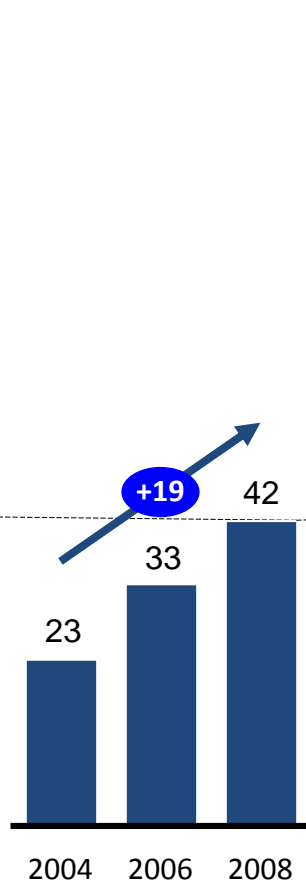
Pass rates, grade 3  
Lowest wealth

Percent



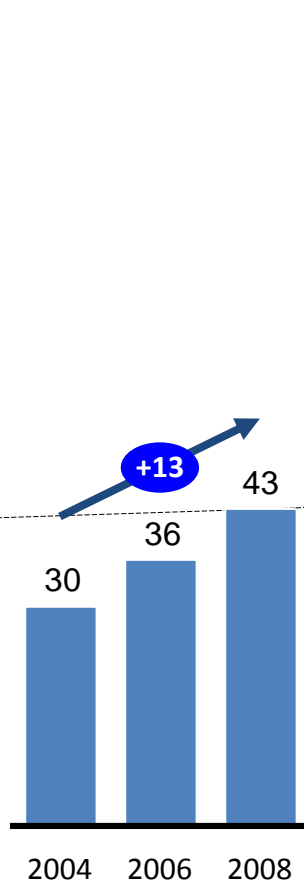
Pass rates, grade 3  
2<sup>nd</sup> lowest wealth

Percent



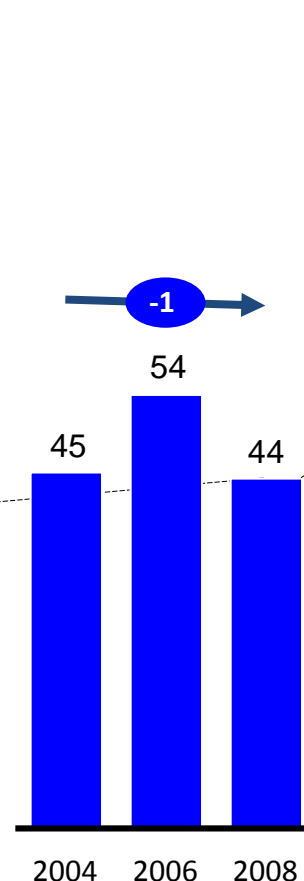
Pass rates, grade 3  
3<sup>rd</sup> lowest wealth

Percent



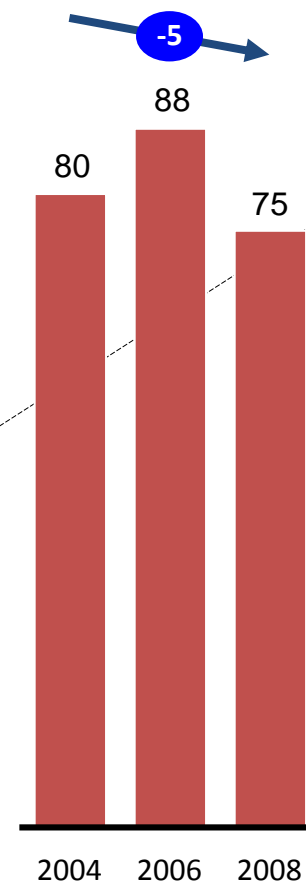
Pass rates, grade 3<sup>1</sup>  
2<sup>nd</sup> highest wealth

Percent



Pass rates, grade 3<sup>1</sup>  
Highest wealth

Percent



1 Interviewees in WCED attributed some of the drop in the two highest wealth quintiles to shifts upwards in wealth categories of learners from 2006

SOURCE: WCED Learner Assessment Studies, Final Reports, 2002-2008