



Facing Forward: Schooling for Learning in Africa

Regional Study on the Quality of Basic Education

Tokyo 3 September 2018

Scope

- All sub-Saharan African countries have committed to Sustainable Development Goal 4
- Prioritize basic education of quality (grades 1-9)

Focus

- Science: "What works"
- Service delivery: "How to implement"
- Countries can learn from each other
- Should develop the culture of continuous improvements

Audience

- Ministries of Finance; Ministries of Education
- Development partners; Research institutions

What can we learn from this study?



Compares countries by education progress, learning and challenges

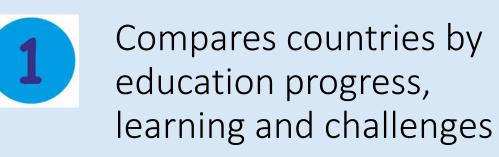


Deep dive in areas: student progression, teachers, budgets, capacity gaps



What are the implications for the region?

What can we learn from this study?



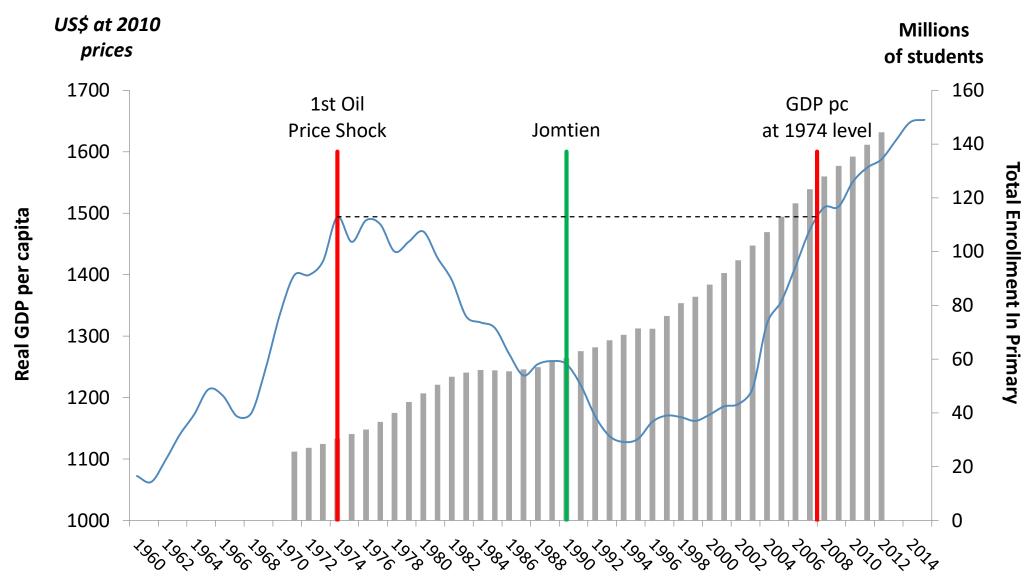


Deep dive in areas: student progression, teachers, budgets, capacity gaps

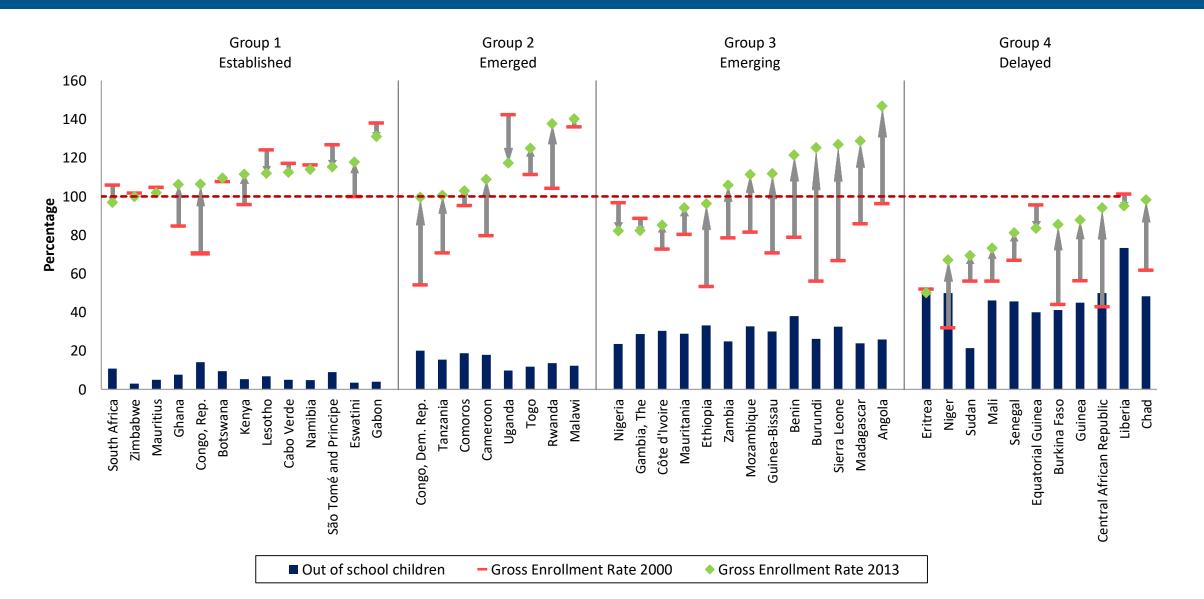


What are the implications for the region?

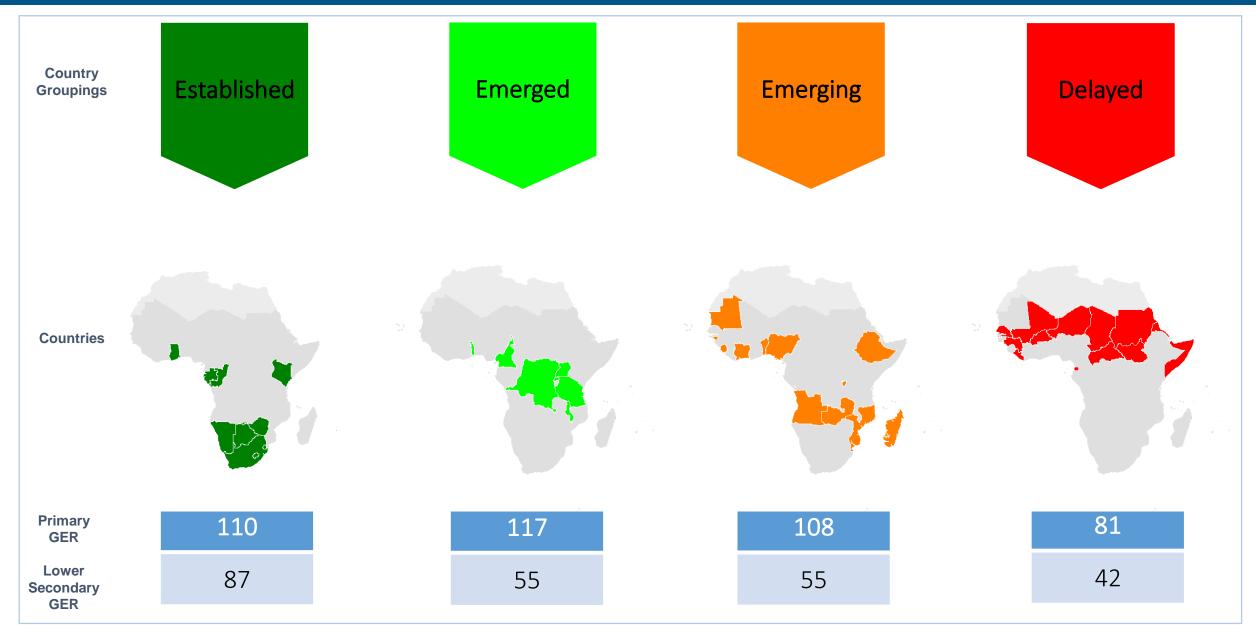
Real GDP per capita and Primary-School Enrollment in Sub-Saharan Africa, 1960–2014



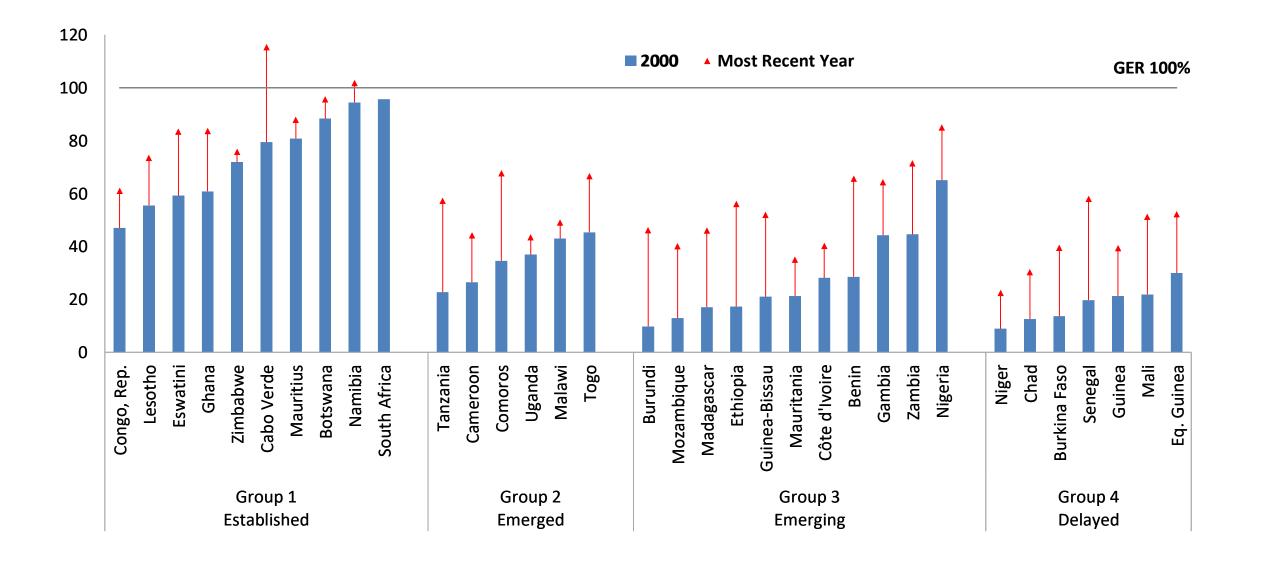
Four groups of countries based on progress in primary education



Four Country Groups: Geographical spread



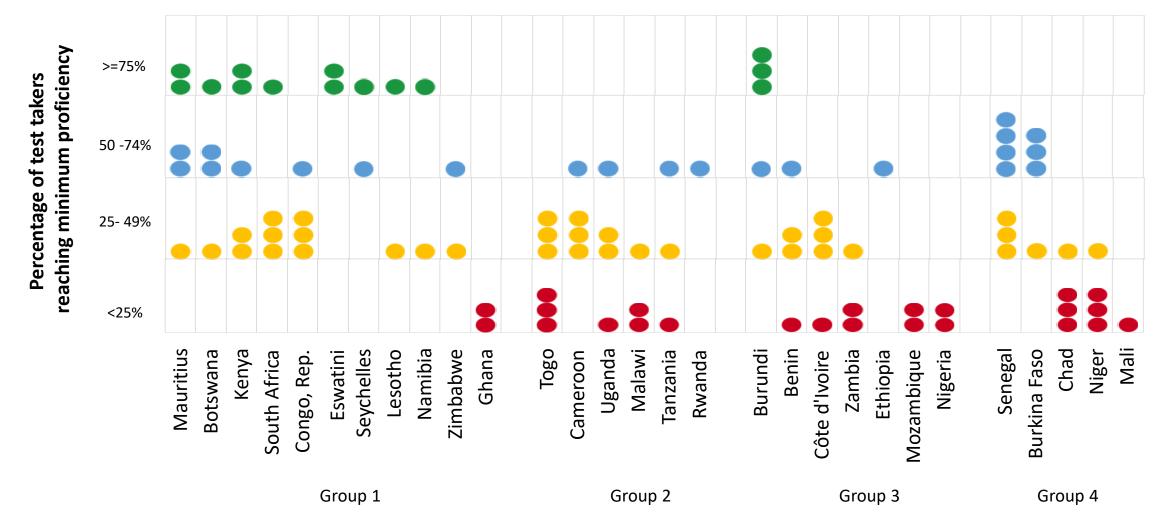
Progress towards Lower secondary education (GER)



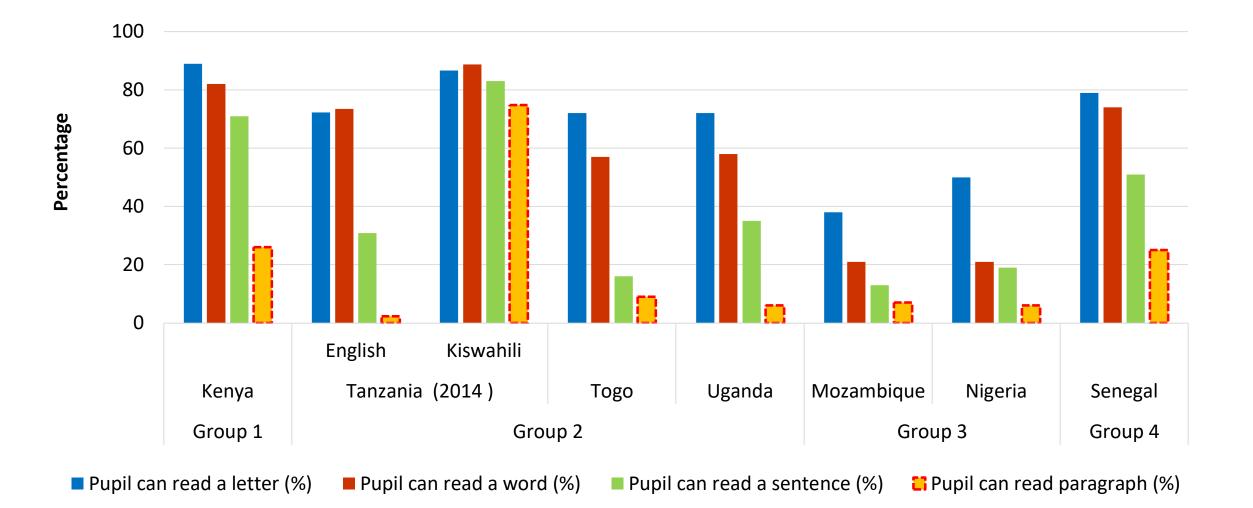
Few students reach minimum proficiency levels in reading or math

Countries in Group 1 and Burundi perform better

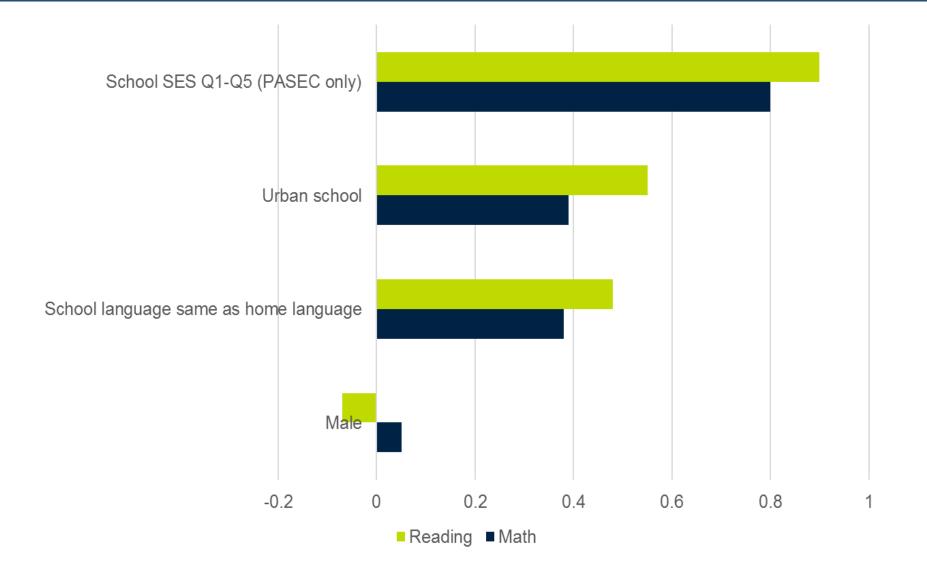
(each dot represents an international or regional assessment in Reading, Math, and Science from early grade to lower secondary, and adult literacy)



At the end of 4th grade, fewer than 30 percent of children can read a paragraph (except Tanzanian children in Kiswahili)

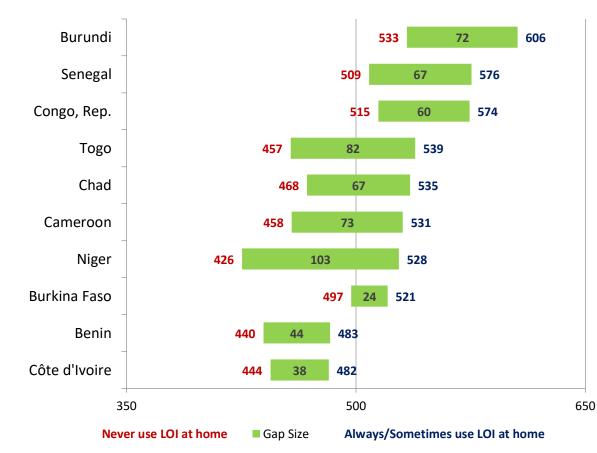


Inequalities: Largest effects for school SES, school location and language of instruction (average effect sizes, PASEC & SACMEQ)

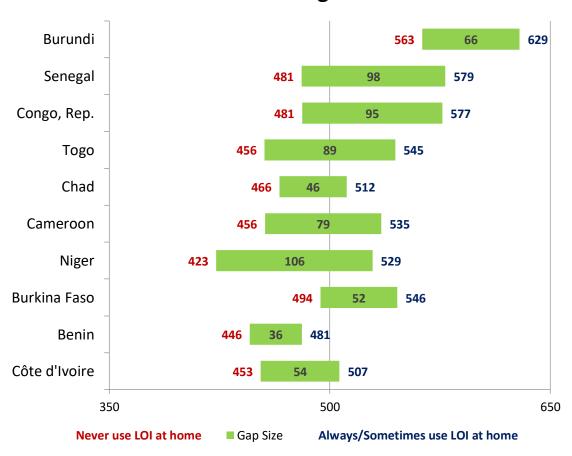


Language used in school and at home: Wide gaps in learning in grade 2

PASEC Grade 2: Average scores and score gap between students instructed in the home language and in another language



Mathematics



Reading

What can we learn from this study?



Compares countries by education progress, learning and challenges

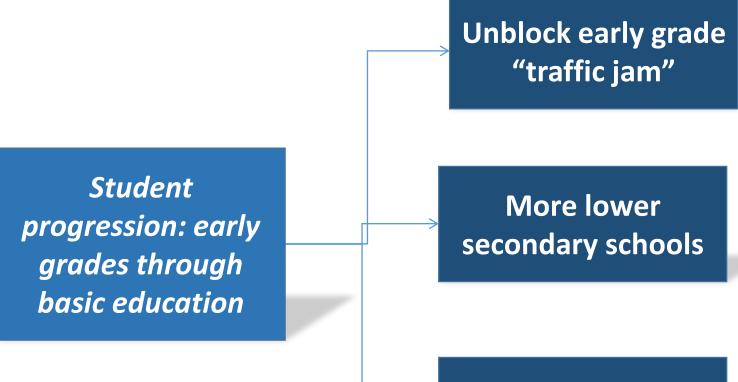


Deep dive in four areas: student progression, teachers, budgets, capacity gaps



What are the implications for the region?

1. Student progression with learning

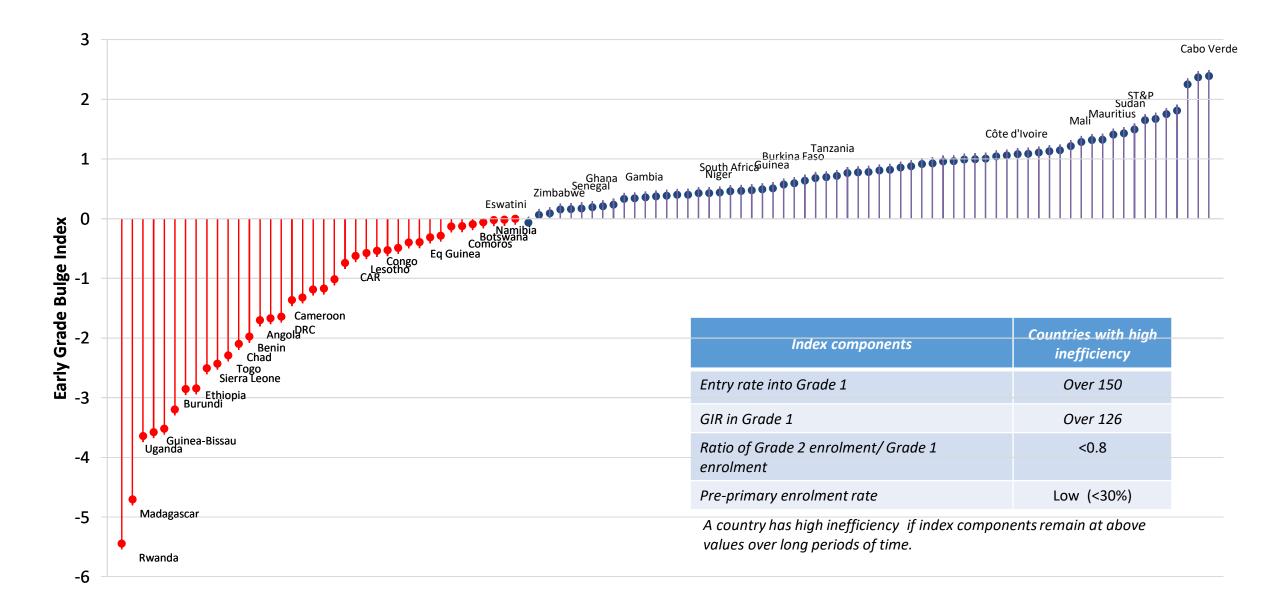


Target poor, female, rural students

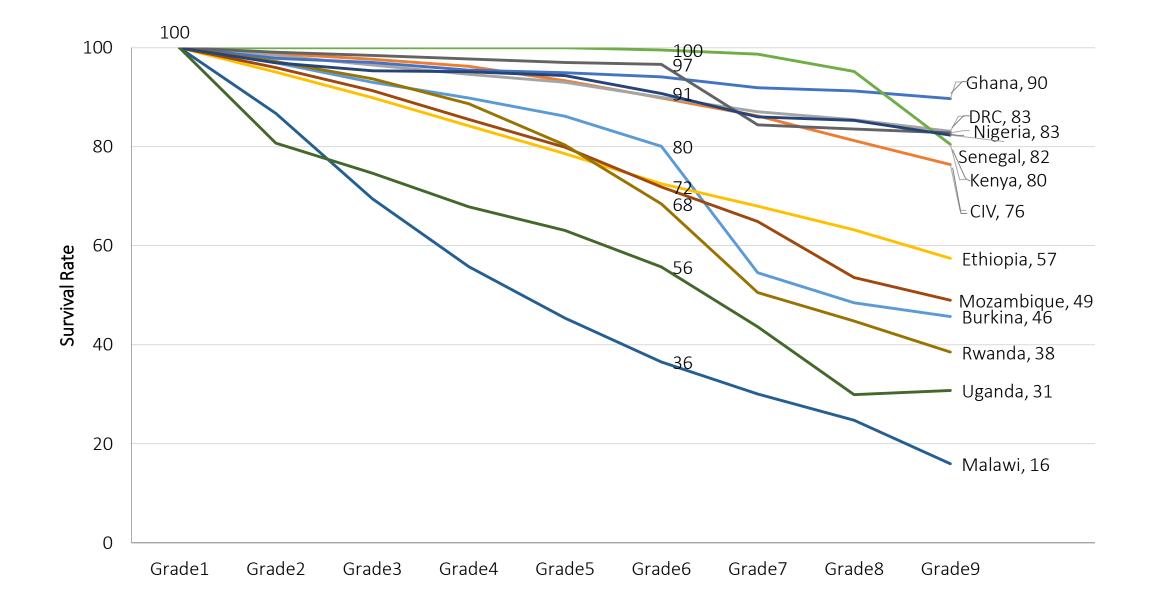
Address early grade "traffic jam": three inter-related factors

- Lack of progression through primary cycle: Children attend irregularly, informal repetition higher than official repetition
- Very poor learning environment:
 - Class sizes are large in early grades
 - Teachers unprepared to teach reading and numeracy
 - Insufficient materials
- Language of instruction may not be appropriate
 - Children encounter a "reading mountain"
 - If they don't master early literacy skills by end of grade 2 and reading comprehension by end of grade 4, they will not progress

Index shows over-enrollment in Grade 1 in SSA countries - Groups 2& 3



Survival rates through grade 9



Address demand, supply and structural barriers to retention (1)

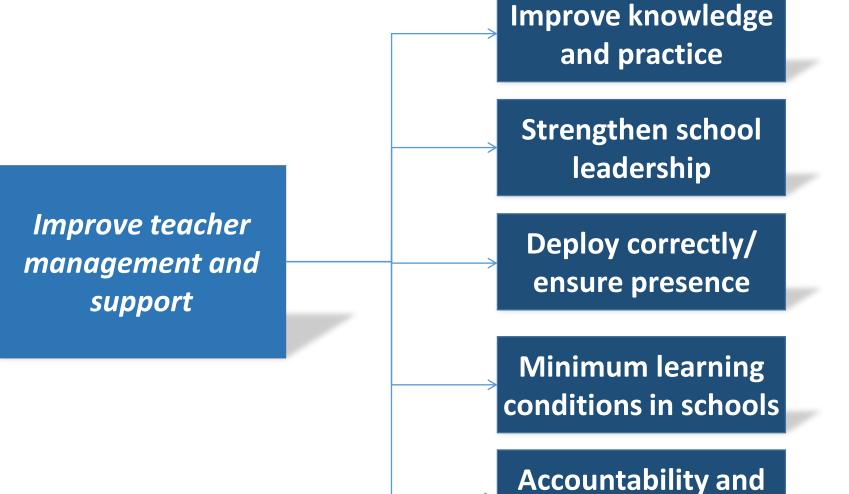
Demand side:

- Reduce costs for schooling (CCTs, scholarships)
- Barriers for girls (safety, addressing child marriage and early pregnancy, adequate sanitary facilities in schools)
- Barriers for nomadic populations, refugees, disabled, other vulnerable populations

Structural:

- Eliminate high stakes exams between primary and lower secondary

2. Teachers: Improve management and support



incentives

"Leakages" in Teacher Management at Multiple Points

Teacher recruitment Teaching attracts the more educated But pre-service preparation is inadequate And teacher knowledge remains modest



• Allocations vary widely across schools

• Control of allocations and transfers is weak

• Curriculum specialization worsens problems

Teacher absenteeism

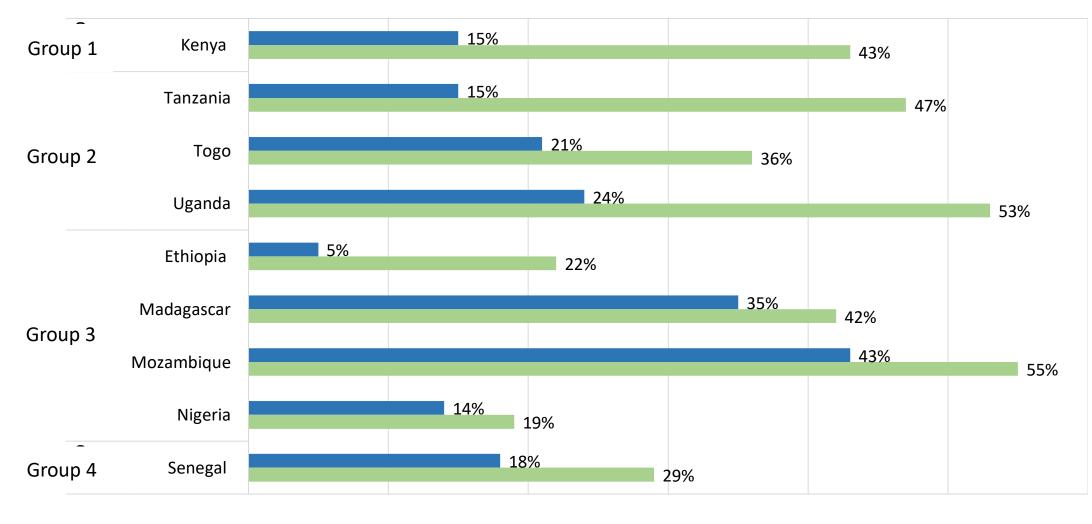
- Teachers are absent from school and from the classroom ("orphaned" classrooms)
- Problems stem from issues with leave policy and weak school level management

Teaching and learning in the classroom

• Teachers lack ongoing support to improve teaching

• Material and other conditions are unconducive

Large shares of teachers are absent—not just from school but especially from class

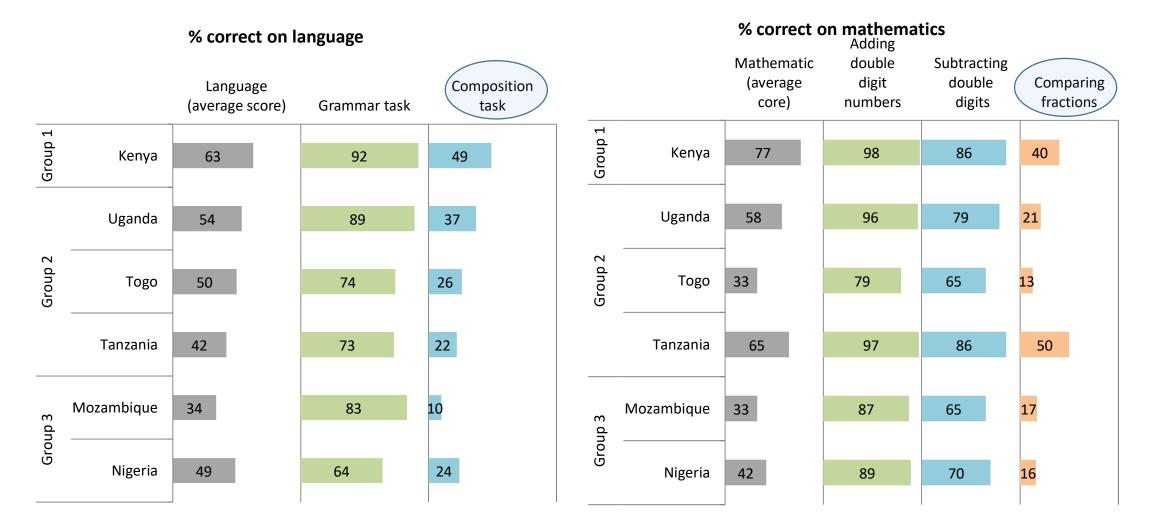


School Class

Source: Service Delivery Indicators Surveys of primary schools, 2013-14, based on enumerators' school visit reports

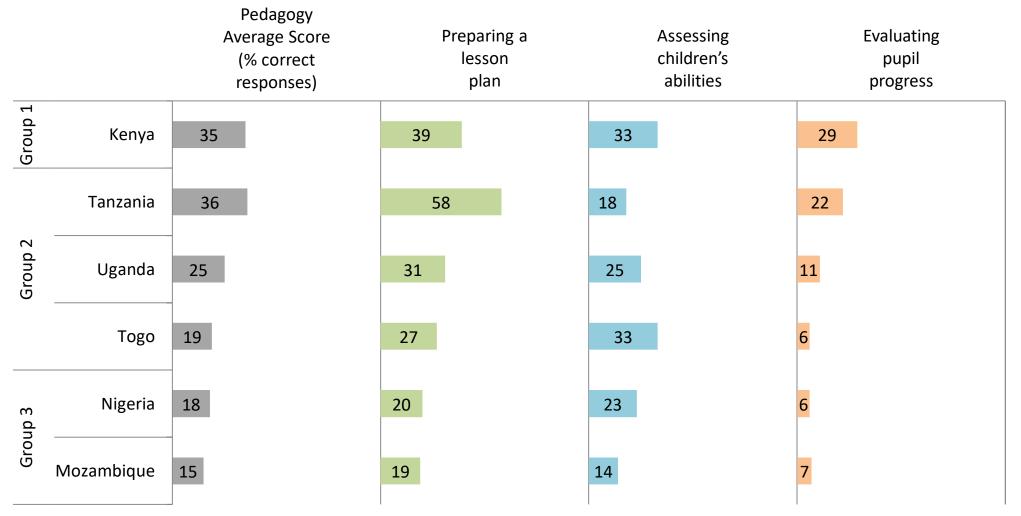
Teacher knowledge lags in the more advanced tasks

SDI surveys 2012–2016, grade 4

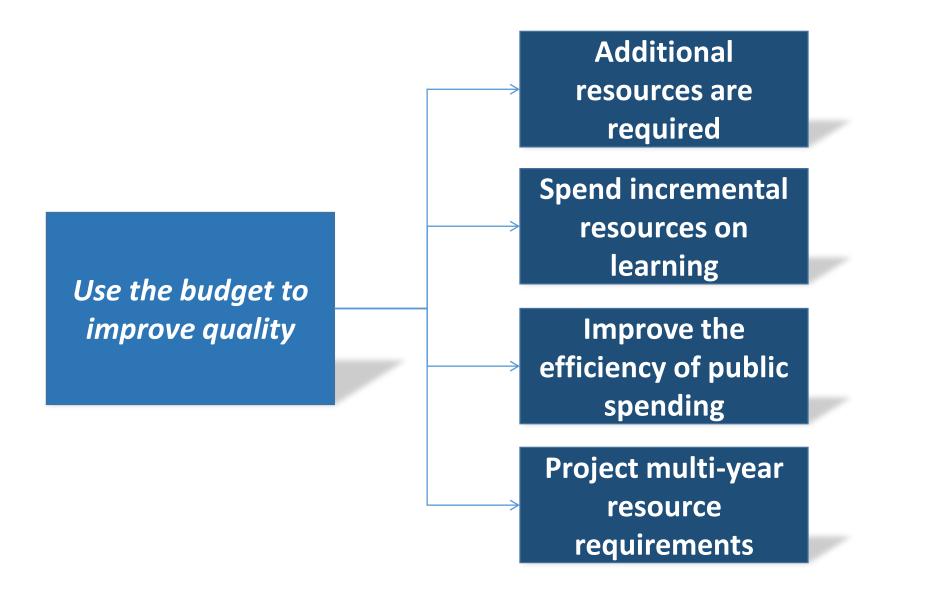


Teachers' pedagogical knowledge is also modest

SDI surveys, grade 4



3. Use the budget to improve quality



Insufficient Resources for education

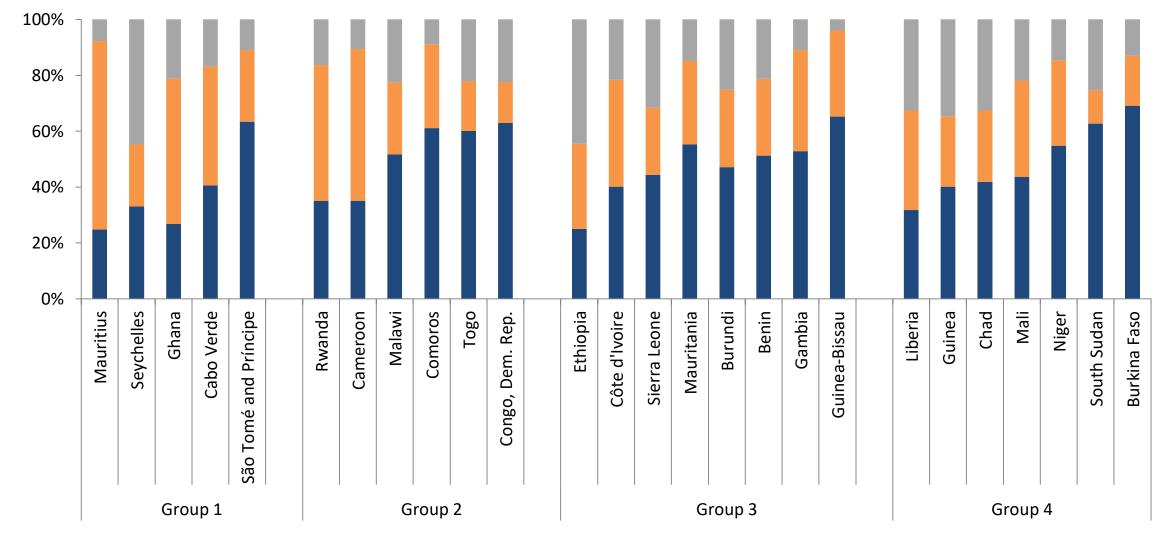
- Public Education Spending as share of GDP has been increasing
- Public Education Spending as a share of Total Government Expenditure has been relatively stable
- Public spending per pupil is low
- Household contributions are high even for primary and lower secondary education

Median Government Expenditure Per Pupil on Primary and Secondary Education, Selected Regions, 2014

constant 2013 US\$ Primary Secondar Multiple Region ∩f Secondar y to Primary Sub-Saharan Africa (all countries) 208 412 1.98 East Asia 7.908 9.650 1.22 Latin America 1.385 1.582 1.14 Southern Asia 451 665 1.47

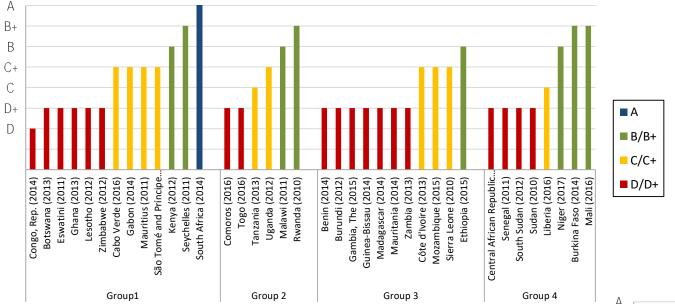
Source: Constructed from UNESCO 2016

But targeted towards higher education in countries with incomplete basic education (Group 4)



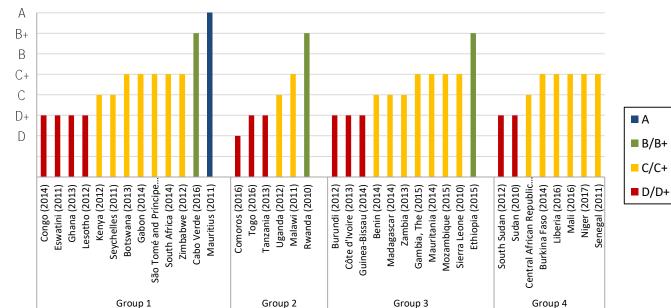
Better execution of the budget is needed

Predictability in the availability of funds for commitment of expenditures



Weak procurement, financial management processes

Struggle to procure textbooks, teacher training, and implement school construction



Effectiveness of internal controls for non-salary expenditure

4. Address capacity gaps in Ministries of Education

From "Science to Service Delivery" – Closing the capacity gap Knowledge of "what to do" and increased financial resources are not enough

The challenge is implementation and specific capacities are required What kind of capacity do Ministries need to improve learning?

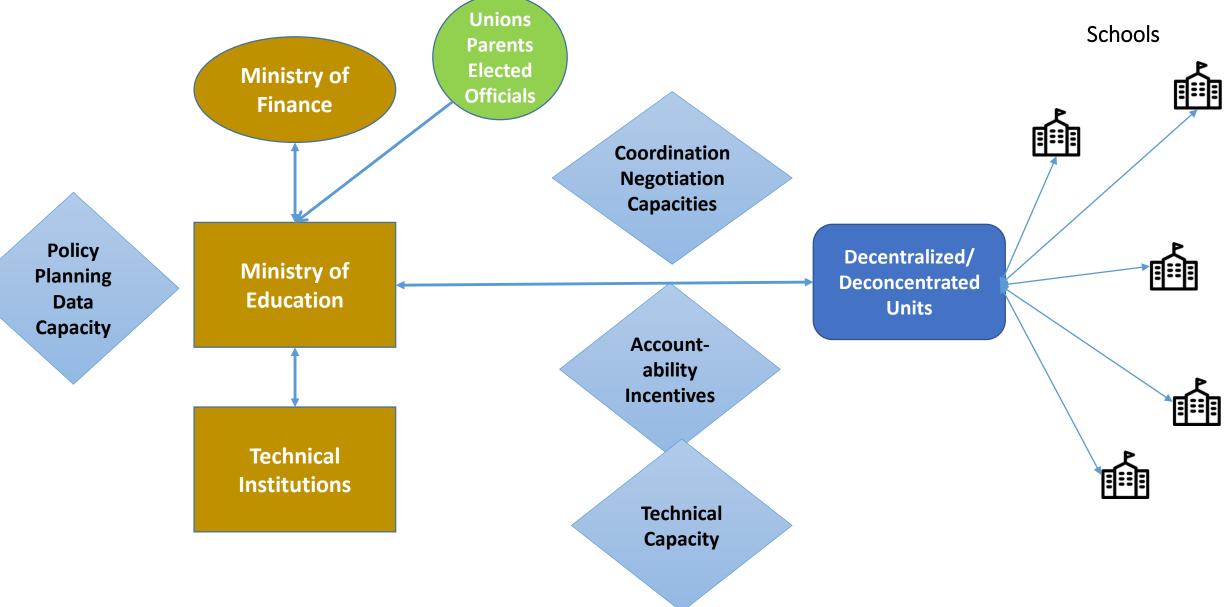
Capacity to collect, analyze and use data

Technical skills (curriculum, materials development, assessment, teacher training, planning, etc.)

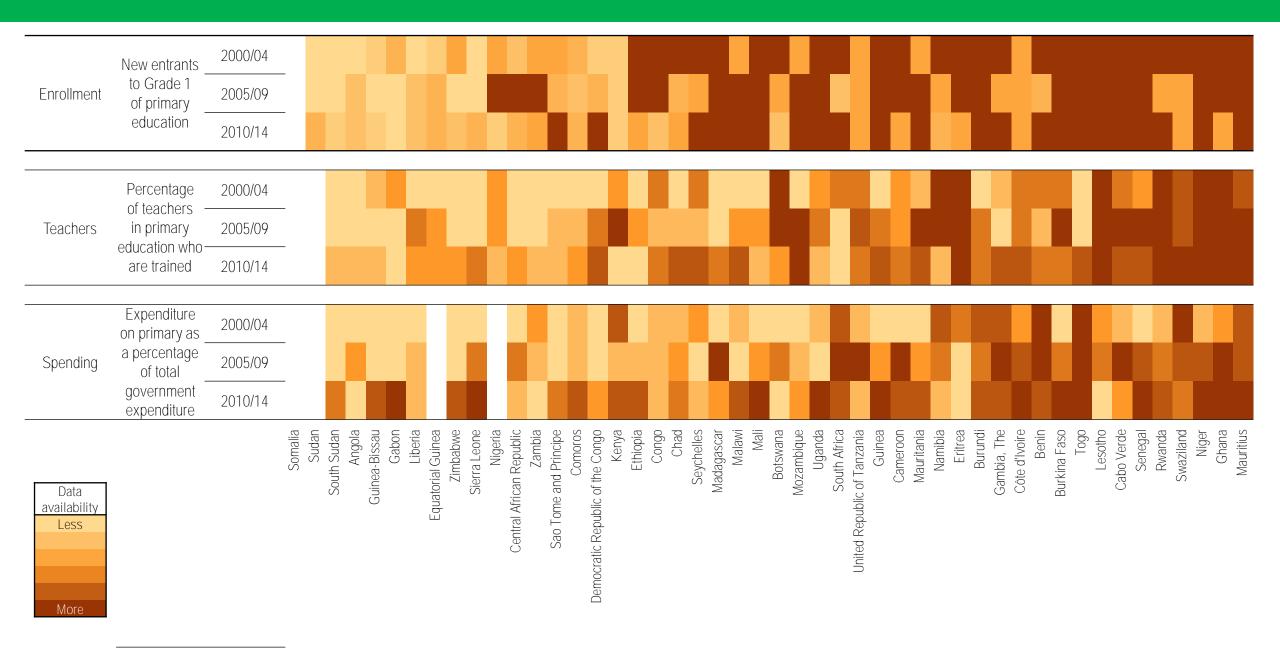
Capacity to coordinate

Negotiation skills (with politicians, local governments, parents, unions, etc.)

Bridging the implementation gap – connecting to schools/teachers



UIS Data availability by selected indicators and period



What can we learn from this study?



Compares countries by education progress, learning and challenges



Deep dive in four areas: student progression, teachers, budgets, capacity gaps



What are the implications for the region?

Looking ahead: key challenges

| Diverging Economic Performance | Economic growth across the region is highly heterogeneous Some countries have more diversified economic structures | | | | | |
|---|---|--|--|--|--|--|
| Larger cohorts of school-age children | • A vast population growth is expected: most African countries are at the "pre- demographic dividend" stage, with total fertility rates (TFRs) of 4 or more. | Many countries in educational Groups 3 and 4 have TFR above 5 Group 1 Group 2 Group 3 Group 4 TFR <5 | | | | |
| Managing Expansion with Quality | Need to expand while sustaining past learning improvements and absorbing students from disadvantage social backgrounds. | A sustained projected expansion in enrollment Primary Lower Secondary 268 178 53 108 108 108 108 108 108 108 108 | | | | |

1. Make learning a serious goal in the region

2. Strengthen **literacy and numeracy in early years** (including preprimary); address the 'traffic jam' in groups 2&3; structured pedagogy which integrates curriculum, instructional materials, teacher training and support, language of instruction; assessment and monitoring.

3. Ensure **children stay in school** (focus on the minimum conditions for learning and reducing the cost of learning, eliminate high stakes examinations).

Implications for the region

5. Continue to expand access:

- Primary is still an issue in some countries in the region
- Secondary is an issue across countries in the region
- Focus on providing education closer to children

6. Strengthen the teacher corps:

- Existing teachers: continuous support close to or within schools to improve instruction;
- New recruits: focus pre-service programs on curriculum knowledge, teaching practice, and building expectations for continuous development.

Implications for the region

7. More and better use of financial resources:

- Mobilize additional domestic resources for basic education;
- Utilize budgets more effectively to meet learning goals and reducing disparities

8. Strengthen capacity:

• Data analysis, technical skills, coordination and negotiations skills.





Thank You

Suggested citation:

Bashir, Sajitha, Marlaine Lockheed, Elizabeth Ninan, and Jee-Peng Tan. Forthcoming.

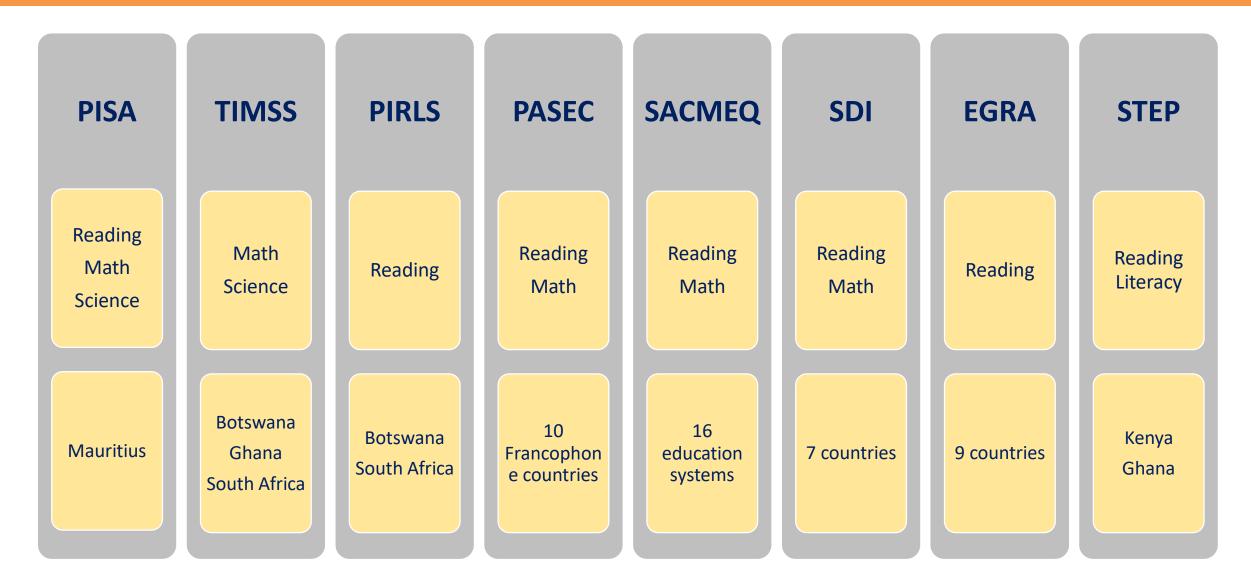
Facing Forward: Schooling for Learning in Africa. Washington, DC: World Bank

Annexes – Data Sources

Data Sources: Chapter 1, Country Groupings and Challenges

| UIS.Stat database (UNESCO) | Pole de Dakar (IIEP) | Household Surveys (WB) | WDI (WB) | WPP 2015 (UN DESA) | Ethnologue (SIL) | ACLED, Armed Conflict Location and Event Data, version 6 |
|--|--------------------------------------|------------------------------|--|---|--|--|
| Country groupings, GERs, Enrollment (48 countries) | Country groupings, Enrollment, | Out of School Rates | GDP, Growth of GDP (40 countries) Gini Index | Population Projections (48 countries) | Linguistic Diversity Index 2015 (47 countries) | Number of conflicts (48 countries) |
| ISCED Mappings of Length Cycles (48 countries) | GERs, (48 countries) | (34 countries) | (40 countries) Poverty Headcount (40 countries) | Population Growth Rates (48 countries) | 7 countries | 9 countries |

Data Sources: Chapter 2, Learning



International and regional learning assessments in SSA (96)

| Assess- ment | Grades /Ages | Countries | Subjects | Minimum Threshold | Examples of Minimum Proficiency | | |
|-----------------|----------------------|-----------------------------|----------|---|---|--|--|
| | | | Reading | | Reading: Locates and recognizes main idea in text, interprets and integrates parts of text. | | |
| PISA+ | PISA+ Age 15 | Mauritius | Math | Level 2 and above | Math: Solves problems using whole numbers. | | |
| | | | Science | | Science: Makes literal interpretations of the results of scientific inquiry. | | |
| | Botswar | | Math | Low | Math: Some knowledge of whole numbers and decimals. | | |
| TIMSS | TIMSS 8 | , Ghana, South Africa | Science | International Benchmark and above | Science: Some basic knowledge of biology, chemistry, physics, and earth science. Interprets simple pictorial diagrams and applies basic knowledge to practical situations. | | |
| PASEC | PASEC | 10 Franco- | Reading | Level 3 | Reading (grade 6): Combines, extracts and locates implicit information. | | |
| 2, 6 | phone countries | Math | Level 2 | Math (grade 6): Answers brief arithmetic, measurement and geometry questions. | | | |
| SACMEQ | SACMEQ | 16 | Reading | Level 4 | Reading: Reads on or reads back in order to link and interpret information located in various part of the text. | | |
| 6 | education systems | Math | Level 4 | Math: Translates verbal or graphic information into simple arithmetic operations. Uses multiple different arithmetic operations on whole numbers, fractions and/or decimals. | | | |
| SDI | SDI . | 7 countries | Reading | | Reading: Reads a sentence aloud | | |
| | 4 | | Math | | Math: Solves a math story | | |
| EGRA | 2, 3 | 9 countries | Reading | | Oral reading: any score above zero | | |

Data Sources: Chapter 3, Student Progression

UIS.Stat database (UNESCO)

Bulge Analysis (all countries): current, 103 countries trend, 84 countries

Enrollment by grade GERs in grade 1, GIR in grade 1 GER in Pre-School (Population projections by age, UN DESA)

Household Surveys (WB)

Over-age enrollment in grade 1 Repetition rates by grade 1 GERs by area, wealth Distance to School Gender Parity by area Survival Rates grades 1-9 Drop-out reasons (34 countries)

Other sources

Language Policies and Implementation: EGRA reports , UNICEF, UNESCO (27 countries)

National Examinations: UIS, WB, ESP documents, national documents, WES, Nuffic (43 countries)

Class size, SDI (Malawi)

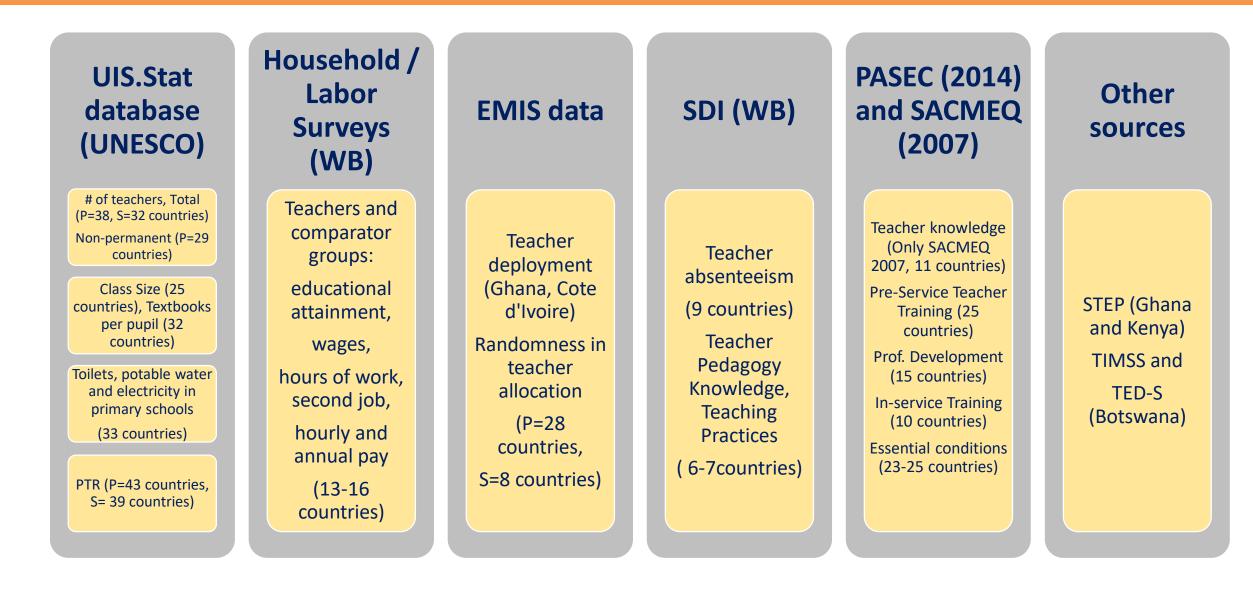
Internet and Mobile Users

(Regional Averages)

ICT use: UIS Communication and Information database , InfoDeb, WB, MoE

(26 countries)

Data Sources: Chapter 4, Teachers



Data Sources: Chapter 5, Budget and Finance

| UIS.Stat database (UNESCO) | UNESCO's Global Monitoring Reports (GMRs) | OECD-DAC and various GMRs | Public Expenditure and Financial Accountability (PEFA, 2011 Framework) | Education Sector Plans | WB PERs |
|---|---|--|---|---|--|
| Total government expenditure (TGE) (39 countries) Government education expenditure (GEE) (33 countries) Share of public spending by level of education (26 countries, 6-year primary cycles) | Household spending on education (18 countries) | Donor aid for education (42 countries) | Assessment of budgetary processes (38 countries in the 2010-2016 period) | Plans appraised for the Global Partnership for Education (GPE) (20 countries) | Various issues covered in this chapter (10 countries, across several years) |

Data Sources: Chapter 6, Capacity Gap

UIS.Stat database (UNESCO)

Selected indicators in three domains: enrollment, teachers and spending

Coverage: at least one year in 2000-04, 2005-09, and 2010-15 periods

Number of countries with valid data increases over time

World Bank Internal Survey

Data collected through questionnaires addressed to Bank staff working in different Sub-Saharan African countries.

Information available on 26 countries

Data Sources: Chapter 8, Coda

Enrollment Projections

Prepared for Ethiopia, Ghana, Kenya, and Senegal

Inputs: Population Projections: WPP 2012 Patterns of Student Flows: Household Surveys Student Teacher Ratios (STRs): UIS.Stat database (UNESCO) WPP 2017 (UN DESA)

Total Fertility Rates, TFR (46 countries)

World Bank

Robustness of economic performance, 1995–2016 (45 countries)