

# BOTSWANA BASIC EDUCATION PUBLIC EXPENDITURE REVIEW (PER)

August 2019





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# Objectives, data collection and focus of analysis



# Objectives

- The overall objective of the Botswana Public Expenditure Review (PER) in Basic Education is to investigate public spending on basic education and whether it contributes in the most efficient way to the desired educational outcomes of providing quality education that meets the needs of the society and the labor market
- Specifically, the Botswana Basic Education PER is undertaken:
  - (i) to assess the adequacy and sustainability of public spending in education;
  - (ii) to assess the efficiency and effectiveness in the use of these resources;
  - (iii) to assess the equity of education expenditures and whether they protect the disadvantaged and vulnerable populations;
  - (iv) to assess key management and governance issues facing the education sector; and
  - (v) to provide policy recommendations.





## **Data collection**

- The PER covers, data permitting, the period 2010-2017 and is based on:
  - field visits to review delivery of basic education services at regional and school levels;
  - Education Management Information System (EMIS);
  - budget and other financial and sectoral data and reports from the MFED and all Ministries responsible for different levels of education provision;
  - data made available by development partners;
  - international educational evaluations (TIMSS, PIRLS, SACMEQ);
  - data from household and labor surveys and the 2011 population census;
  - other data and reports collected from the field visits.



# Focus of analysis

PER undertakes an analysiss of the following areas:

- (i) Resources efficiency of budget allocation across education levels with breakdown among regional education jurisdictions;
- (ii) Educational outcomes
  - student flows, with attention to repetition and drop-out, including regional patterns
  - various international assessments;
- (iii) Equity possible spatial spending differentials; patterns of progress in educational attainment across gender and income groups; and
- (iv) Institutional context impact of the division of functions across different ministries on governance and management of the education system and on the efficiency of resource flows and resource use.





# Context

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### Context

- Botswana is one of the world's fastest growing economies and has transitioned into an upper middle-income country
- However, the country continues to face significant challenges (i.e. high unemployment, income inequality, poverty in rural areas and the southern part of the country, and a relatively undiversified economy)
- Education expenditure is among the highest in the world (above 7 percent of GDP)
- Almost 90 percent of the basic education budget is spent on salaries and other recurrent costs (leaves very little for improving learning outcomes and for the most disadvantaged students)
- Despite the significant investment over the years, the quality of education is still far from satisfactory, with high levels of repetition and drop-out and poor performance in international tests



# Context (cont.)

There is still significant variation across regions in both access and performance, which raises critical questions about equity of access to quality education

- There has not been a comprehensive analysis of resource allocation, adequacy, patterns, distribution, effectiveness and efficiency of public expenditures across all levels of education and all levels of government and education institutions
- The Government of Botswana is cognizant of the high levels of spending yet weak learning outcomes in the basic education system and has requested the World Bank to carry out a public expenditure review (PER) to review the equity, efficiency and effectiveness of public expenditures in basic education



# Findings

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# Findings

- a. Institutional analysis
- **b.** Education sector financing
- c. Education performance
- d. Summary of preliminary findings



# Institutional analysis

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# Fragmentation of policy/decision making and implementation

- Involvement of multiple ministries/departments; opportunity to improve coordination of priorities and execution
- Regarding enrolment, appointment of teachers and provision of classrooms:
  - Large classroom shortage, yet very favourable staffing situation in schools, and often large class sizes
  - Allocation of resources to building classrooms not linked to decisions regarding enrolment or appointment of teachers



# District and secondary school level budgeting need re-organization

#### • "Estimates" unrealistic

| Example from North West<br>Region: | Estimated budget | Budget allocation |
|------------------------------------|------------------|-------------------|
| 2017/18                            | P160 million     | P40 million       |
| 2018/19                            | P145 million     | P67 million       |

- Allocations ignore local priorities, and distances (from Gaborone, or to schools)
- reallocation difficult → inflexible budgeting/expenditure mechanism; limited autonomy
- Problems of non-spending (sometimes allocations are too small for meaningful spending)
- **Suggestions:** Estimates should occur within a given spending ceiling, with special requests beyond that considered only with adequate motivation and planning



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# Education sector financing



# **Education sector financing**

#### (a) Financing sources, budget planning and execution:

Sources of funds, levels, trends and composition of spending

Planning and budgeting process

Allocative efficiency of spending

#### (b) Decentralized financing:

Analysis of financial flows of funds to regions and to schools

e.g. are resources sufficient to finance regions and schools to carry out their mandates?

Assessment of structure, responsibilities and accountability mechanisms

e.g. accountability mechanisms to monitor education quality

#### (c) Equity of public spending, affordability of schools and role of households:

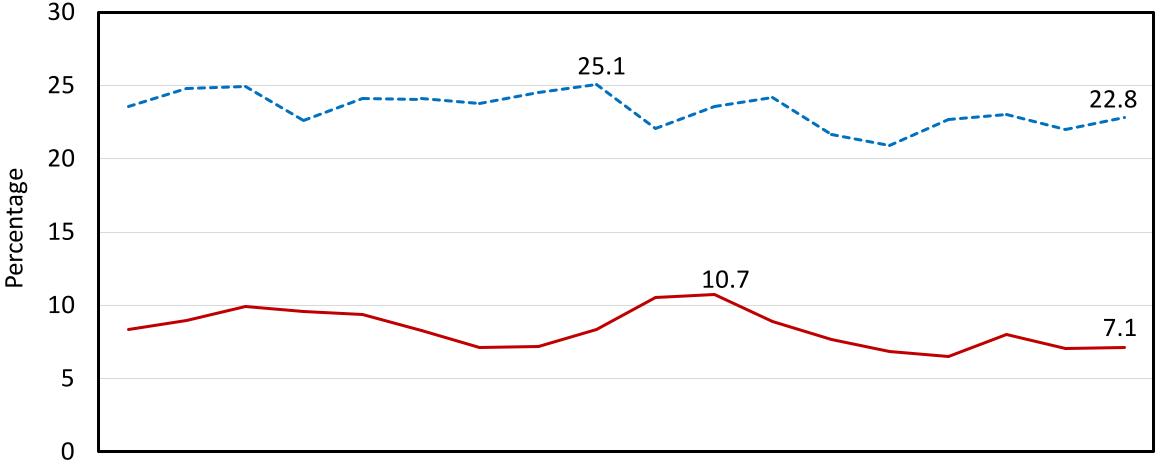
Inequality in school enrollment, performance, progression, completion and out-of-school incidence Does public spending protect equity?

#### (d) Links between education policy priorities and education spending:

Alignment of budget allocation and education sector priorities in ETSSP 2015-2020

Recruitment and deployment practices, teacher management and incentive practices

### Government Expenditure on Education as % of all Government Expenditure and as % of GDP



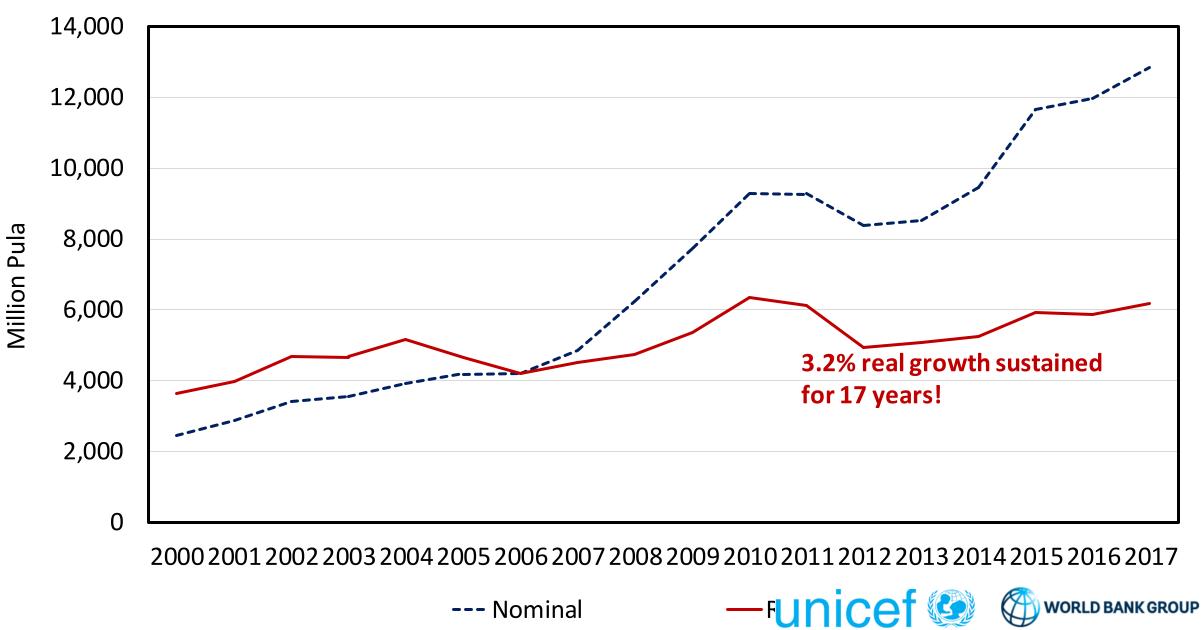
 $2000\,2001\,2002\,2003\,2004\,2005\,2006\,2007\,2008\,2009\,2010\,2011\,2012\,2013\,2014\,2015\,2016\,2017$ 

--- Percent of Government Expenditure

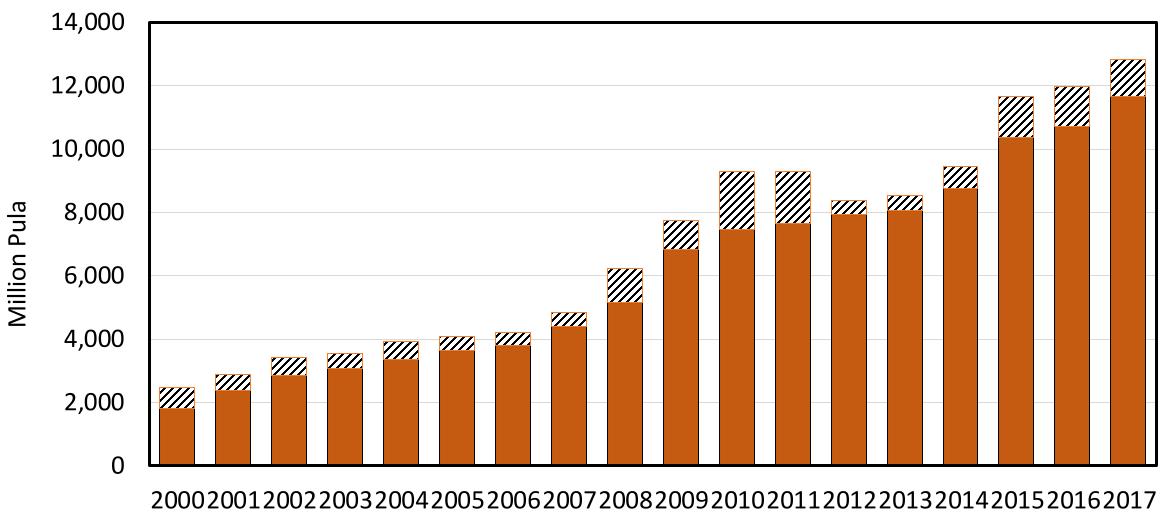
--- Percent of GDP

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# Growth in government expenditure on education



### **Composition of government expenditure on education**



Recurrent Expenditure

🛛 Development Expenditure



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#### Ministry of Education and Skills Development: Actual expenditure

| Department                                    | Recurrent Expenditure |            | Development Expenditure |           |           | Total Expenditure |            |            |            |
|-----------------------------------------------|-----------------------|------------|-------------------------|-----------|-----------|-------------------|------------|------------|------------|
|                                               | 2015                  | 2016       | 2017                    | 2015      | 2016      | 2017              | 2015       | 2016       | 2017       |
| Headquarters                                  | 1 865 396             | 2 225 506  | 2 313 779               | 70 583    | 77 951    | 31 807            | 1 935 979  | 2 303 457  | 2 345 586  |
| Vocational Training and<br>Education          | 450 453               | 500 669    | 585 198                 | 23 408    | 3 113     | 21 035            | 473 861    | 503 782    | 606 233    |
| Tertiary Education Financing                  | 2 545 198             | 2 243 783  | 2 970 562               | 0         | 0         | 0                 | 2 545 198  | 2 243 783  | 2 970 562  |
| Out of School Education and<br>Training       | 111 138               | 112 712    | 114 256                 | 0         | 0         | 0                 | 111 138    | 112 712    | 114 256    |
| Curriculum Development and<br>Evaluation      | 20 547                | 20 887     | 20 573                  | 0         | 0         | 0                 | 20 547     | 20 887     | 20 573     |
| Teaching Service Management                   | 4 128 482             | 4 357 968  | 4 404 832               | 0         | 0         | 0                 | 4 128 482  | 4 357 968  | 4 404 832  |
| Pre-Primary and Primary                       |                       |            |                         |           |           |                   |            |            |            |
| Education                                     | 33 193                | 47 030     | 65 163                  | 0         | 0         | 0                 | 33 193     | 47 030     | 65 163     |
| Secondary Education                           | 915 969               | 828 204    | 878 017                 | 976 149   | 1 004 296 | 872 615           | 1 892 118  | 1 832 500  | 1 750 631  |
| Teacher Training and<br>Development           | 178 232               | 160 952    | 104 247                 | 0         | 0         | 0                 | 178 232    | 160 952    | 104 247    |
| MoBE Mobile Service                           | 22 541                | 23 301     | 24 354                  | 0         | 0         | 0                 | 22 541     | 23 301     | 24 354     |
| Information, Communication and Media Services | 12 215                | 13 114     | 15 305                  | 0         | 0         | 0                 | 12 215     | 13 114     | 15 305     |
| Special Support Services                      | 26 492                | 20 228     | 19 697                  | 0         | 0         | 0                 | 26 492     | 20 228     | 19 697     |
| Educational Planning and                      |                       |            |                         |           |           |                   |            |            |            |
| Research                                      | 7 252                 | 8 811      | 9 316                   | 0         | 0         | 0                 | 7 252      | 8 811      | 9 316      |
| Total                                         | 10 317 107            | 10 563 163 | 11 525 299              | 1 070 141 | 1 085 361 | 925 456           | 11 387 248 | 11 648 523 | 12 450 755 |

# Teachers

- Teacher salaries not excessive:
  - ± 2.0 times per capita GNI, compared to 4.0 for low income countries (more than 11 in Lesotho!)
  - Yet large teaching staff pushes up cost per student: Salary bill per student was P6 200 in primary in 2015 , P16 000 in JSS, P28 500 in SSS
- Pupil-teacher ratios are low: in 2015, 21:1 for primary, less than 12:1 for secondary
  - 6% of teachers on study leave
  - 10% of teachers are temporary teachers
- Rural teachers are often demotivated
- Current deployment practices are seen as unfair by many rural teachers



# Low pupil-teacher ratios in all regions, 2015

|             | Primary   |          |                        | Secondary |          |                        |  |
|-------------|-----------|----------|------------------------|-----------|----------|------------------------|--|
|             | Enrolment | Teachers | Pupil-teacher<br>ratio | Enrolment | Teachers | Pupil-teacher<br>ratio |  |
| 1 Southeast | 40 480    | 1864     | 21.7                   | 28 525    | 2 557    | 11.2                   |  |
| 2 North     | 26 142    | 1 162    | 22.5                   | 16 476    | 1 470    | 11.2                   |  |
| 3 South     | 42 640    | 1865     | 22.9                   | 22 885    | 2 104    | 10.9                   |  |
| 4 Kweneng   | 49 533    | 1 958    | 25.3                   | 20 431    | 1 712    | 11.9                   |  |
| 5 Kgatleng  | 14 680    | 679      | 21.6                   | 7 556     | 707      | 10.7                   |  |
| 6 Northwest | 31034     | 1 245    | 24.9                   | 14 396    | 1 192    | 12.1                   |  |
| 7 Chobe     | 3 669     | 174      | 21.1                   | 1 267     | 101      | 12.5                   |  |
| 8 Ghanzi    | 7 866     | 328      | 24.0                   | 3 572     | 318      | 11.2                   |  |
| 9 Kgalagadi | 9 285     | 482      | 19.3                   | 4 562     | 405      | 11.3                   |  |
| 10 Central  | 119 289   | 4 776    | 25.0                   | 64 371    | 5 219    | 12.3                   |  |
| Total       | 344 618   | 14 533   | 23.7                   | 184041    | 15 785   | 11.7                   |  |

Yet class sizes are not necessarily small



#### Average availability of core textbooks by region, 2015

|             | English | Setswana | Mathe-<br>matics | Social/<br>cultural<br>studies | Science |
|-------------|---------|----------|------------------|--------------------------------|---------|
| 1 Southeast | 74%     | 69%      | 71%              | 67%                            | 73%     |
| 2 North     | 79%     | 75%      | 73%              | 71%                            | 70%     |
| 3 South     | 82%     | 72%      | 73%              | 70%                            | 84%     |
| 4 Kweneng   | 77%     | 69%      | 78%              | 79%                            | 67%     |
| 5 Kgatleng  | 79%     | 69%      | 69%              | 68%                            | 77%     |
| 6 Northwest | 54%     | 55%      | <b>52%</b>       | 50%                            | 46%     |
| 7 Chobe     | 77%     | 65%      | 82%              | 90%                            | 79%     |
| 8 Ghanzi    | 70%     | 61%      | 55%              | 57%                            | 65%     |
| 9 Kgalagadi | 72%     | 66%      | 61%              | 71%                            | 63%     |
| 10 Central  | 67%     | 56%      | 64%              | 57%                            | 57%     |
| Total       | 72%     | 64%      | 68%              | 65%                            | 65%     |

# **Education** performance

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Botswana's Human Capital Index is low for its level of real GDP per capita

- HCI summary measure of human capital that a child born today can expect to attain by age 18
- Derived fromsurvival, quality-adjusted years of schooling, health
- Designed as indicator of productivity and therefore economic growth that countries should be able to sustain
- Botswana average education attainment of 8.4 years equivalent to only 5.3 years quality adjusted

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Log Real GDP Per Capita at PPP

... largely because of the weak quality of education that reduces its learning-adjusted years of schooling



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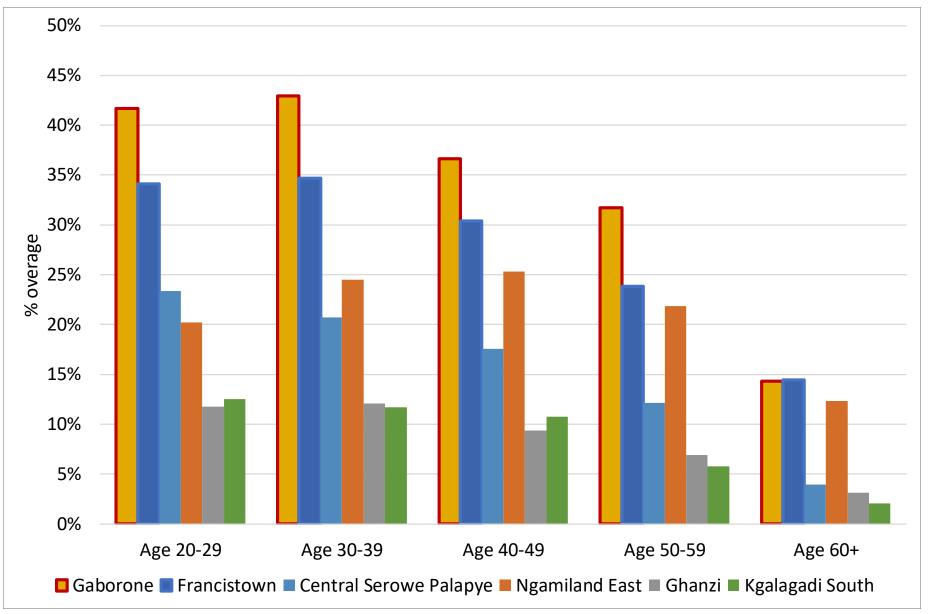


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Source: World Bank's Human Capital Project

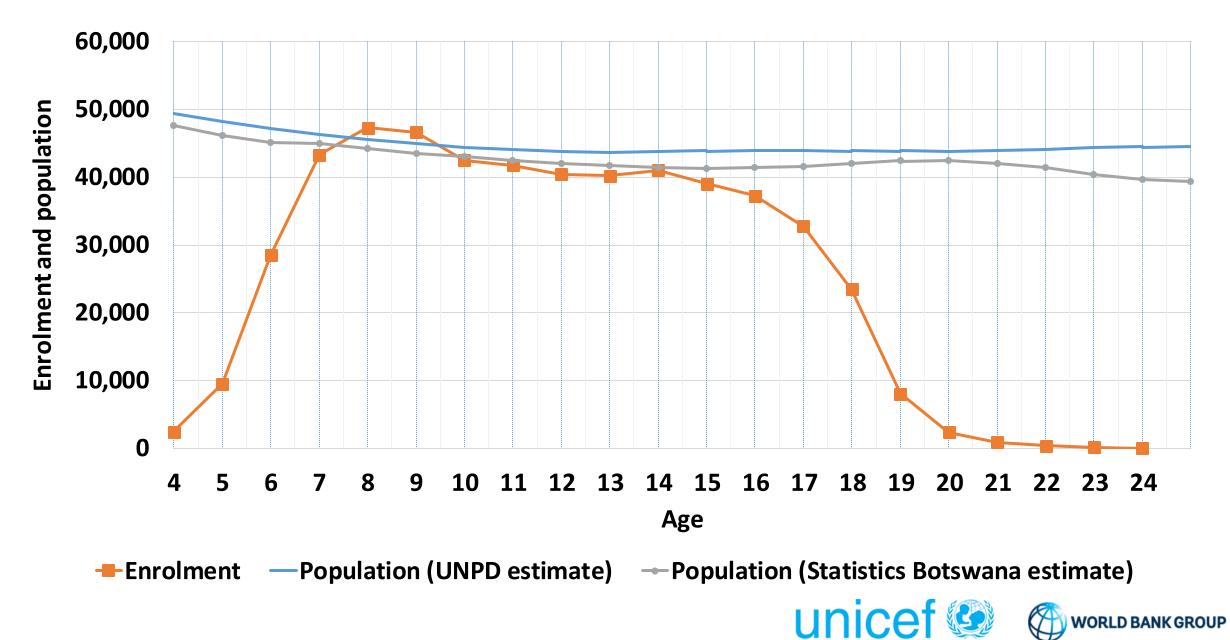
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# Percentage of population with post-school education by age group for a selection of districts, 2011



- HCI summary measure of human capital that a child born today can expect to attain by age 18
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### Enrolment and population by age, 2014



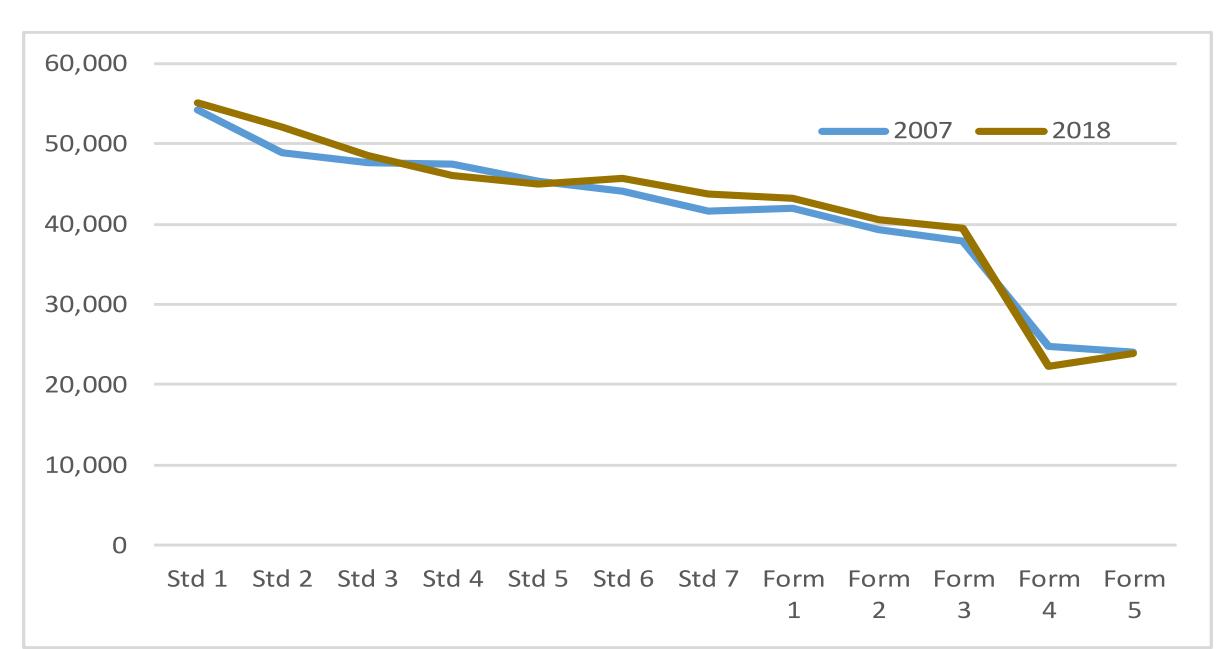
|           | 2007    | 2010    | 2015    | 2018            | %<br>growth<br>over<br>period<br>2007-<br>2018 | %<br>growth<br>over<br>period<br>2007-<br>2015 |
|-----------|---------|---------|---------|-----------------|------------------------------------------------|------------------------------------------------|
| Std 1     | 54,220  | 51,968  | 54,690  | 55,041          | 1.5%                                           |                                                |
| Std 2     | 48,933  | 48,066  | 49,618  | 52 <i>,</i> 093 | 6.6%                                           |                                                |
| Std 3     | 47,717  | 47,303  | 50,911  | 48,577          | 1.8%                                           |                                                |
| Std 4     | 47,463  | 48,886  | 50,411  | 46,113          | -2.8%                                          |                                                |
| Std 5     | 45,420  | 47,294  | 47,064  | 44,919          | -1.1%                                          |                                                |
| Std 6     | 44,113  | 44,845  | 43,987  | 45,755          | 3.7%                                           |                                                |
| Std 7     | 41,552  | 41,609  | 42,349  | 43,668          | 5.1%                                           |                                                |
| Primary   | 331,425 | 331,981 | 341,045 | 336,166         | 1.4%                                           |                                                |
| Form 1    | 41,900  | 40,600  | 43,199  | 43,285          | 3.3%                                           |                                                |
| Form 2    | 39,357  | 39,700  | 42,738  | 40,618          | 3.2%                                           |                                                |
| Form 3    | 37,832  | 39,800  | 40,553  | 39,416          | 4.2%                                           |                                                |
| Form 4    | 24,811  | 26,700  | 27,444  | 22,278          | -10.2%                                         | 10.6%                                          |
| Form 5    | 24,029  | 23,800  | 27,304  | 23,894          | -0.6%                                          | 13.6%                                          |
| Secondary | 167,929 | 170,600 | 181,238 | 169,491         | 0.9%                                           | 7.9%                                           |
| Total     | 497,347 | 500,571 | 522,283 | 505,657         | 1.7%                                           | 5.0%                                           |

# Enrolment by grade and year

Slow enrolment growth, but somewhat faster in higher grades



### Enrolment by grade, 2007 and 2018

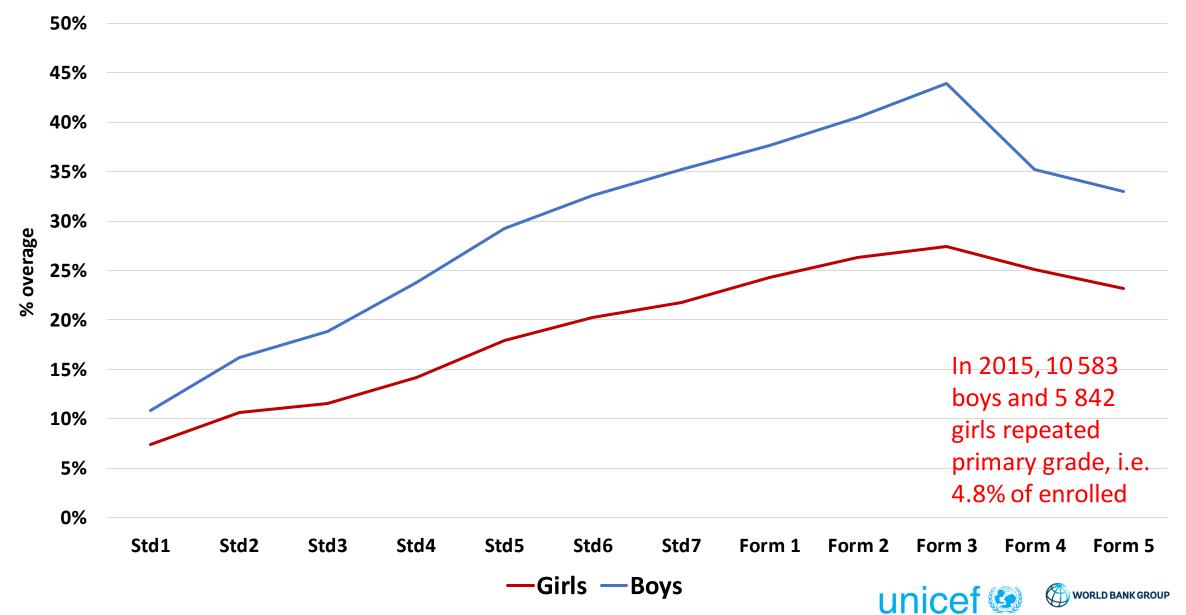


### Primary repetition rate by region, 2015

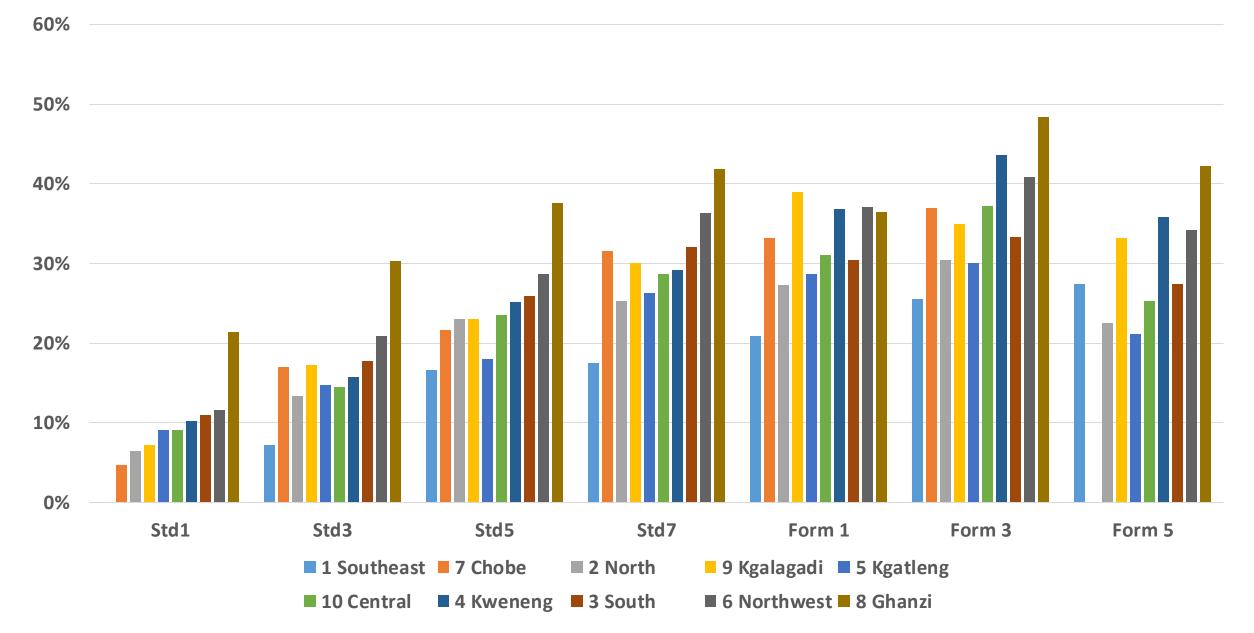
|             | Repetition<br>rates |
|-------------|---------------------|
| 1 Southeast | 3.3%                |
| 2 North     | 3.9%                |
| 3 South     | 4.3%                |
| 4 Kweneng   | 4.6%                |
| 5 Kgatleng  | 6.6%                |
| 6 Northwest | 5.6%                |
| 7 Chobe     | 4.9%                |
| 8 Ghanzi    | 6.5%                |
| 9 Kgalagadi | 6.7%                |
| 10 Central  | 5.0%                |
| Total       | 4.8%                |



#### Percentage overage by grade & gender



# Overage by region and grade, 2014



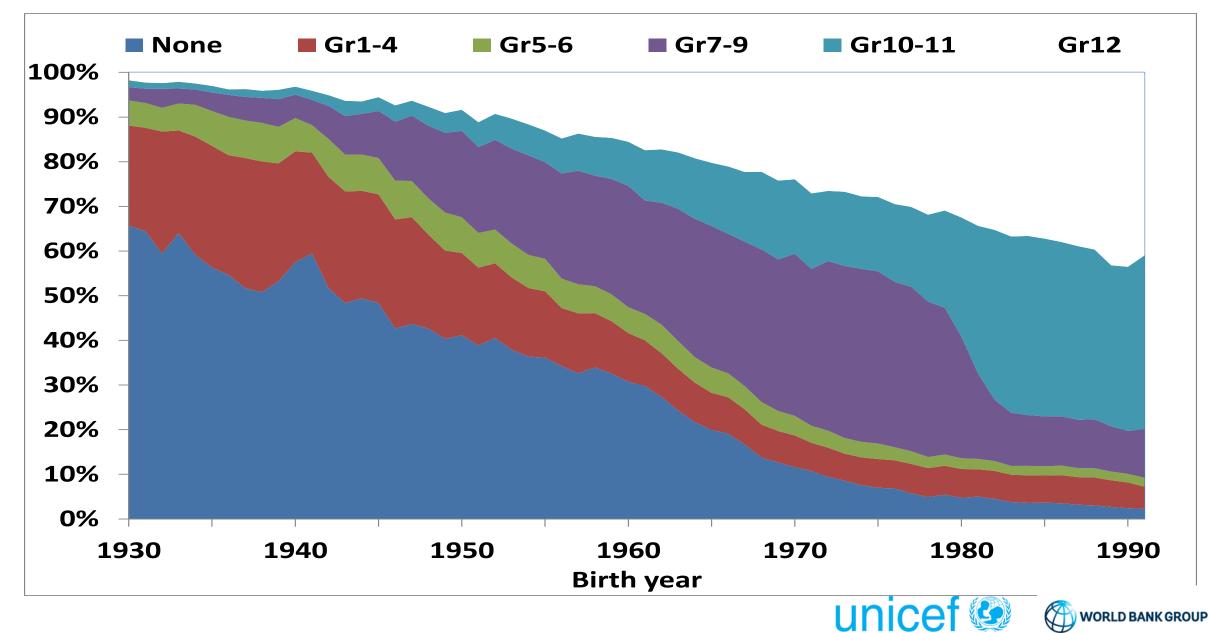
# Despite much attention to pre-primary education, enrolment is still low, only about 41% of Std 1 enrolment (2018)

|            | Pre-<br>primary<br>girls | Pre-<br>primary<br>boys | Std 1 girls | Std 1 boys | Pre-<br>primary as<br>% of Std 1 |           |
|------------|--------------------------|-------------------------|-------------|------------|----------------------------------|-----------|
| Chobe      | 120                      | 122                     | 371         | 293        | 36%                              |           |
| Kgalagadi  | 560                      | 575                     | 838         | 722        | 73%                              |           |
| Central    | 4 670                    | 4 537                   | 10 501      | 9 397      | 46%                              |           |
| Ghanzi     | 305                      | 312                     | 717         | 772        | 41%                              |           |
| Kgatleng   | 812                      | 722                     | 1 310       | 1 159      | 62%                              | 2018 pre- |
| Kweneng    | 1 746                    | 1 797                   | 4 106       | 3712       | 45%                              | primary   |
| North East | 632                      | 593                     | 2 054       | 1 953      | 31%                              |           |
| North West | 859                      | 898                     | 2 910       | 2 622      | 32%                              |           |
| South      | 982                      | 1027                    | 3 668       | 3 2 3 1    | 29%                              |           |
| South East | 676                      | 743                     | 2 390       | 2315       | 30%                              | year olds |
| Total      | 11 362                   | 11 326                  | 28 865      | 26 176     | 41%                              |           |



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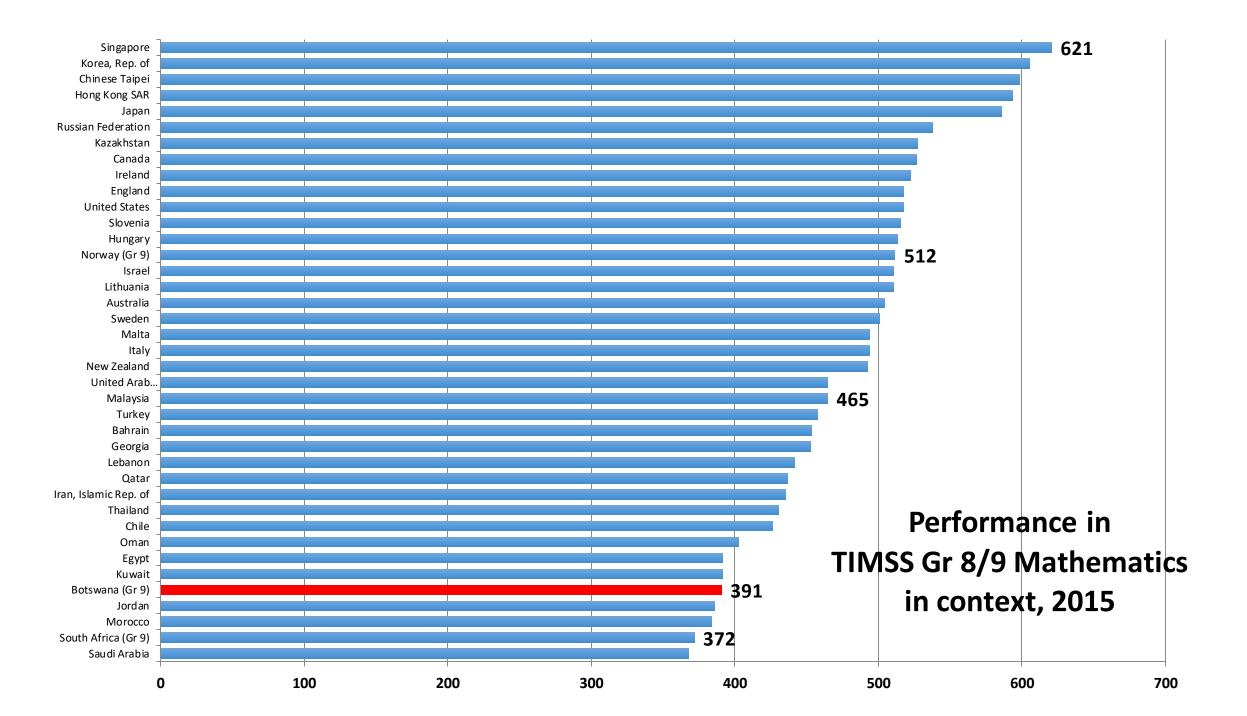
### School attainment by birth cohort



# **Performance in international assessments**

- Botswana performs poor in international educational assessments:
  - In SACMEQ, it performs around the middle in countries of southern and eastern Africa, despite being one of the richest and most developed economies
  - In PRE-PIRLS (Grade 4, testing literacy in home language), PIRLS (Gr5 literacy) and TIMSS (Grade 4 numeracy, Grade 9 Maths and Science), Botswana is amongst the worst performing participants (though not many African and poor developing countries participate)
  - The weak performance in Pre-PIRLS indicates that learning deficits start early this strengthens the case for improving Early Childhood Care and Development and preprimary education and paying much attention to teaching basic reading, writing and arithmetic well in the early school years





#### TIMSS 2015 Gr8/9 Maths

| ths |                     |                                               | Mean | <b>Std Error</b> |
|-----|---------------------|-----------------------------------------------|------|------------------|
|     | Overall             |                                               | 391  | 2.0              |
|     | Gender              | Воу                                           | 381  | 2.4              |
|     |                     | Girl                                          | 400  | 2.6              |
|     | Parents' education  | University or Higher                          | 423  | 3.7              |
|     |                     | Post-secondary but not University             | 400  | 3.6              |
|     |                     | Upper Secondary                               | 390  | 3.2              |
|     |                     | Lower Secondary                               | 375  | 2.5              |
|     |                     | Some Primary, Lower Secondary or No Schooling | 380  | 4.0              |
|     | SES quintile        | 1                                             | 354  | 3.2              |
|     |                     | 2                                             | 383  | 2.6              |
|     |                     | 3                                             | 389  | 3.3              |
|     |                     | 4                                             | 406  | 2.8              |
|     |                     | 5                                             | 424  | 3.3              |
|     | School SES quintile | 1                                             | 360  | 5.2              |
|     |                     | 2                                             | 373  | 3.8              |
|     |                     | 3                                             | 389  | 3.8              |
|     |                     | 4                                             | 398  | 3.6              |
|     |                     | 5                                             | 436  | 4.8              |
|     | School location     | Urban, densely populated                      | 418  | 3.5              |
|     |                     | Suburban, on fringe of urban area             | 408  | 6.9              |
|     |                     | Medium size city or large town                | 418  | 6.4              |
|     |                     | Small town or village                         | 386  | 3.4              |
|     |                     | Remote rural                                  | 362  | 3.7              |



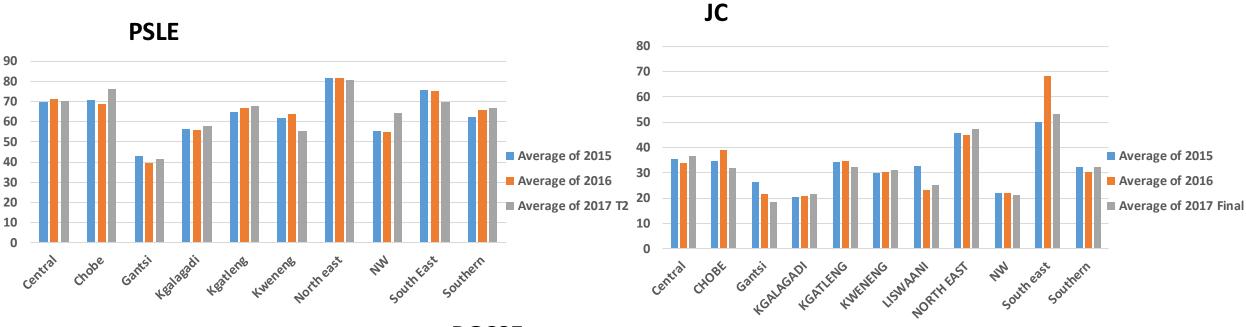
# Regressions

### In all models,

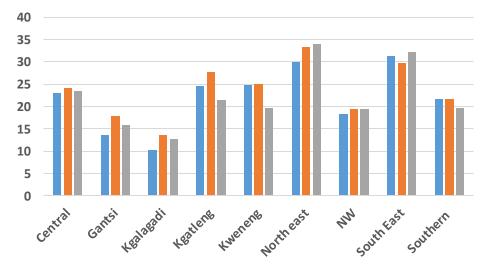
- girls do better than boys
- urban areas do much better than remote rural areas, small towns and medium size cities
- SES is important but the SES of the school is more important than that of the individual (school-SES even has a convex shape)

|                                | Pre-PIRLS 2011  | TIMSS2011          | TIMSS2015         |
|--------------------------------|-----------------|--------------------|-------------------|
|                                | Literacy (Gr 4) | Maths (Gr6)        | Maths (Gr9)       |
| SES                            | 13.4*           | 13.3               | 15.2              |
| School-SES                     | 34.2 ***        | 38.7***            | 55.4 ***          |
| Girl                           | 45.1 ***        | 20.0***            | 19.4 ***          |
| Urban, densely populated       | 12.8 ***        | 6.0***             | 11.6 ***          |
| Suburban, on fringes of urban  | 32.7 ***        | 12.8***            | 5.8***            |
| Medium size city or large town | 5.4***          | -2.1***            | 4.9***            |
| Small town or village          | 1.6***          | 1.2***             | 6.3***            |
| Reference: Remote rural        |                 |                    |                   |
| Constant                       | 301.4           | 409.4              | 386.3             |
| Ν                              | 4261            | 5817               | 5903              |
| R-squared                      | 0.192           | 0.184              | 0.166             |
|                                |                 |                    |                   |
|                                | Pre-PIRLS 201   | 1 TIMSS2011 Math   | s TIMSS2015 Maths |
|                                | Literacy (Gr 4  | <b>(Gr6)</b> (Gr9) |                   |
| SES                            | 13.2 **         | 13.6*              | 14.5 ***          |
| SES squared                    | -0.4            | 0.4                | -1.1              |
| School-SES                     | 50.9 ***        | 43.8***            | 55.1***           |
| School-SES squared             | 44.1 ***        | 28.6***            | 34.4 ***          |
| Girl                           | 44.4 ***        | 19.6***            | 19.5 ***          |
| Urban, densely populated       | 12.6***         | 4.5***             | 14.0*             |
| Suburban, on fringes of urban  | 24.9 ***        | 14.4***            | 12.2*             |
| Medium size city or large town | 3.1***          | 7.5***             | 9.5               |
| Small town or village          | 14.4 ***        | 7.7***             | 10.6**            |
| Reference: Remote rural        |                 |                    |                   |
| Constant                       | 279.2           | 393.5              | 377.1             |
| Ν                              | 4 261           | 5 817              | 5 903             |
| R-squared                      | 0.270           | 0.215              | 0.177             |

### **Inconsistent performance across regions**



BGCSE

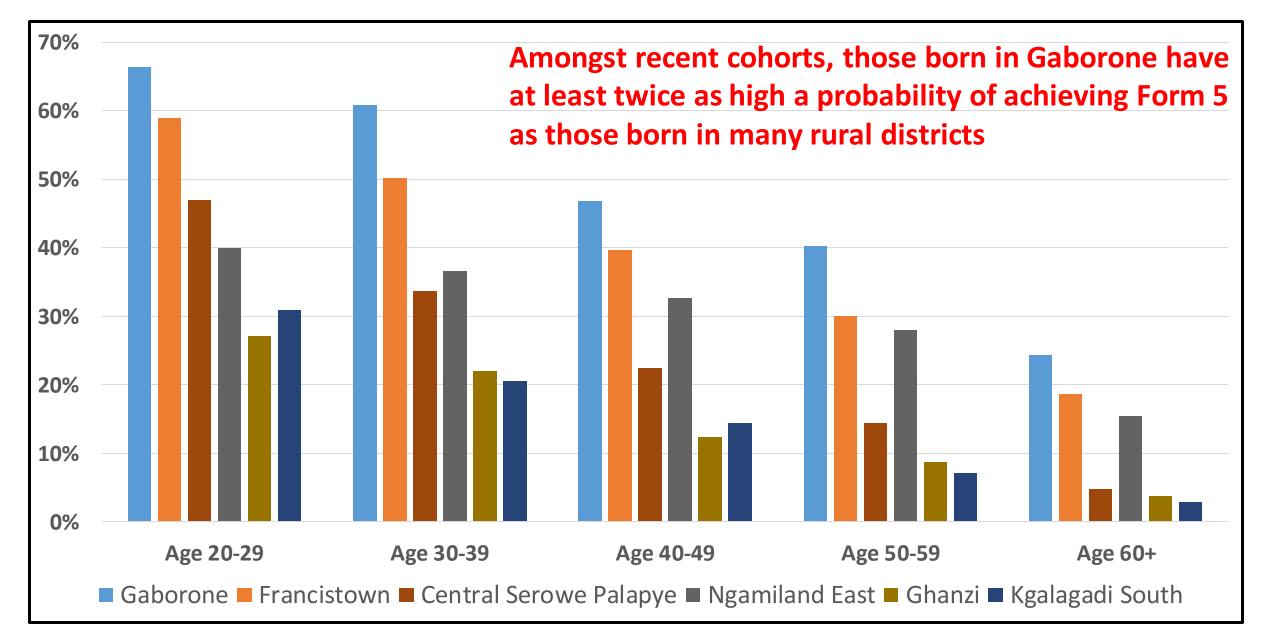




■ 2015 ■ 2015 ■ 2015

## % with completed Form 5 by age group for selected districts (by birth district)

(Source: Census 2011)



# Summarising key findings

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# Summarising key findings

## FAVORABLE CONDITIONS

First it is important to restate that Botswana has a number of advantages compared with most developing countries, which in turn make it easier to address new challenges. These include:

- A relatively favourable fiscal situation with a government spending level that is moderate by international standards, government revenues that are well above average, and projected sustainability in the short to medium term.
- Population projections are favorable for Botswana in terms of developing human capital, with dependency ratios (the number of young people as a percentage of the adult population) that are significantly better than most countries in the region.



# Summarising key findings

## **FAVORABLE CONDITIONS (cont.)**

- Participation in education has reached almost 100% in the core school-going age. The net enrollment rate in primary school is above 90%, and almost all children participate in at least some years of flower secondary schooling.
- The system has a number of built-in features that increase participation and contribute to an equitable distribution of resources and inputs. Access to school is almost universal, and teachers, school meals and other resources are distributed relatively evenly across communities and regions. Pupilteacher ratios are also low for primary and secondary schools compared internationally.



# Summarising key findings (cont.)

## **CORE CHALLENGES**

This review has also identified a number of core challenges facing the education sector in Botswana, including:

- The main problem with the education system is low student achievement. Botswana is among the lowest performers on TIMSS and PIRLS, and even compared with poorer neighbors in southern and eastern Africa its achievement is just average (SACMEQ). Internal examination performance has also been stagnant in recent years.
- Decision-making in the education system is fragmented. Responsibilities are divided among many ministries, and as a result there is a lack of clear prioritization within education spending.
- Despite the favourable fiscal situation, there are significant shortages of textbooks and school infrastructure, including classrooms and specialist rooms for teaching (e.g. science subjects). In primary schools, the classroom backlog is 15% of the current stock.



# Summarising key findings (cont.)

## **CORE CHALLENGES**

- Insufficient teacher training is a key factor in understanding the country's low performance on student assessments. Teacher preparation is now the responsibility of the regional education offices, which are constrained by lack of funds and subject specialists. There is also a very large over-supply of teachers in subject areas such as English, Setswana, History and Geography.
- Data on spending and systemic monitoring and evaluation are not sufficient. Budgetary data are often not disaggregated at regional level, and it is not possible to separate school spending from other categories. Data on enrollments (EMIS) and student assessments (Grade 4) are not available in a timely manner, and are not properly utilized.





# Recommendations

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# **Priority Recommendations**

#### ✓ Improve data collection, management and analysis for evidence-based planning and decision making.

- Train and strengthen EMIS and ensuring the punctual capturing and analysis of the Annual School Census.
- Need for better data for human resource planning, particularly to ensure that some teachers are not disadvantaged by having to remain in remote regions longer than initially intended.
- Implement the BOOST initiative. The data in BOOST format would enable presentation of budgets and expenditure data in a consistent framework and in a highly disaggregated form, thereby facilitate effective financial planning.

#### ✓ Prioritize basic education spending to improve efficiency and quality of basic education.

 Shift the emphasis from providing more teachers to improving provision of much needed school infrastructure and ensuring availability of teaching and learning materials in the classrooms. This should insure, as a minimum, that there are adequate classrooms of good quality to accommodate all children, both for core subjects and for electives.



# **Priority Recommendations**

- Ensure that the budget process works in a way that allows prioritization among all education spending which includes costs of personnel, construction of schools and classrooms, teacher training, and other quality inputs (textbooks, teaching and learning materials, stationaries, school feeding, etc.).
  - Currently most of the recurrent budget is located within MOBE (majority of this is for the personnel costs of teachers as well as the staff of Ministry and regional education offices), although part of it also falls under MLGRD (for primary school stationery, feeding, etc.).
  - The development budget is also split between MLGRD for construction of primary classrooms and schools, and MOBE, responsible for the financing (but not for the actual construction) of secondary school and classrooms (construction is done by the Ministry of Infrastructure).
  - This fragmentation of budget makes it almost impossible to see the allocation of education spending for each category and to prioritize among the categories.

#### ✓ Re-design secondary school and regional budgetary processes.

- Strengthen the budgetary autonomy of regional offices and schools in order to strengthen accountability of their education services.
- Make the budgetary process more transparent. Regional offices and schools should have greater freedom to decide on their priorities in their initial budget allocation and the scope for transfer (virement) should be increased, whilst ensuring adequate provision for food and for maintenance.
- Increase transparency in the warranted budget, based upon a clear set of criteria on how funds are allocated among the regions and schools.
  Increase transparency in the warranted budget, based upon a clear set of criteria on how funds are allocated

# **Priority Recommendations**

#### ✓ Simplify the complex institutional arrangements for building classrooms and schools.

- The budget split between recurrent and development expenditure is further complicated by split responsibility between MOBE, which budgets for building secondary schools and classrooms, and MLGRD, which budgets for the same activities at primary schools.
- This makes it difficult to ensure that the classroom shortage receives sufficient attention. In addition, actual building of secondary schools or classrooms, though paid for by MOBE, is undertaken by the Ministry of Infrastructure.
- It is vital to strengthen cooperation between MOBE, MLGRD and Ministry of Infrastructure to improve allocation of funds, planning and budgeting for building schools and classrooms.

#### ✓ Improve teacher recruitment, deployment, and management.

- Undertake an analysis of the demand and supply of teachers and reduce the number of scholarships to student teachers in non-core subjects to address the issue of existing and growing over-supply of teacher.
- Set higher criteria for offering tertiary bursaries for teaching.
- Develop teacher recruitment policy and teaching professional standards and redesign the deployment process for teachers so that each teacher serves only a limited stint in remote areas.





# **Other Recommendations**

- Teacher Development Expand teacher training, particularly in-service training, significantly.
  - include a formal national orientation program for new teachers as well as in-service training of current teachers.
  - redesign of the teacher training system, as decentralization of in-service training function to regions has not been successful.
- Use assessment to support improved learning
- Implement a National Assessment Program and use the findings to target interventions.
  - Provision of detailed scripted curriculum for teaching early grade reading and mathematics,
  - Improve quality of teaching foundational skills.
  - Training in the pedagogy of early reading (this is in line with the ETSSP, which proposed a revamping of both PRESET and INSET for teacher development).
- Undertake a Service Delivery Survey in education to gain a better understanding of the reasons for poor learning.

## **Other Recommendations (cont)**

- Continue the participation in international assessments and use the results to analyze deficiencies and to improve planning.
- Improve educational access, particularly for the poor
- Accelerate implementation of pre-primary education and improve Early Childhood Education, to provide a stronger basis for quality of education in schools.
- Make school attendance compulsory to the end of basic education considering that some children still do not attend school or drop out early.
  - Carry out a study to determine why boys in particular tend to drop out early and perform less well in school.
- Investigate the feasibility of expanding the school network at secondary level
  - through the creation of more unified schools (e.g. primary plus junior secondary, or junior secondary plus senior secondary), to reduce boarding, which is costly and socially undesirable.
- Track and support good performers in poor regions or from poor households.

