

State of Education in South Africa

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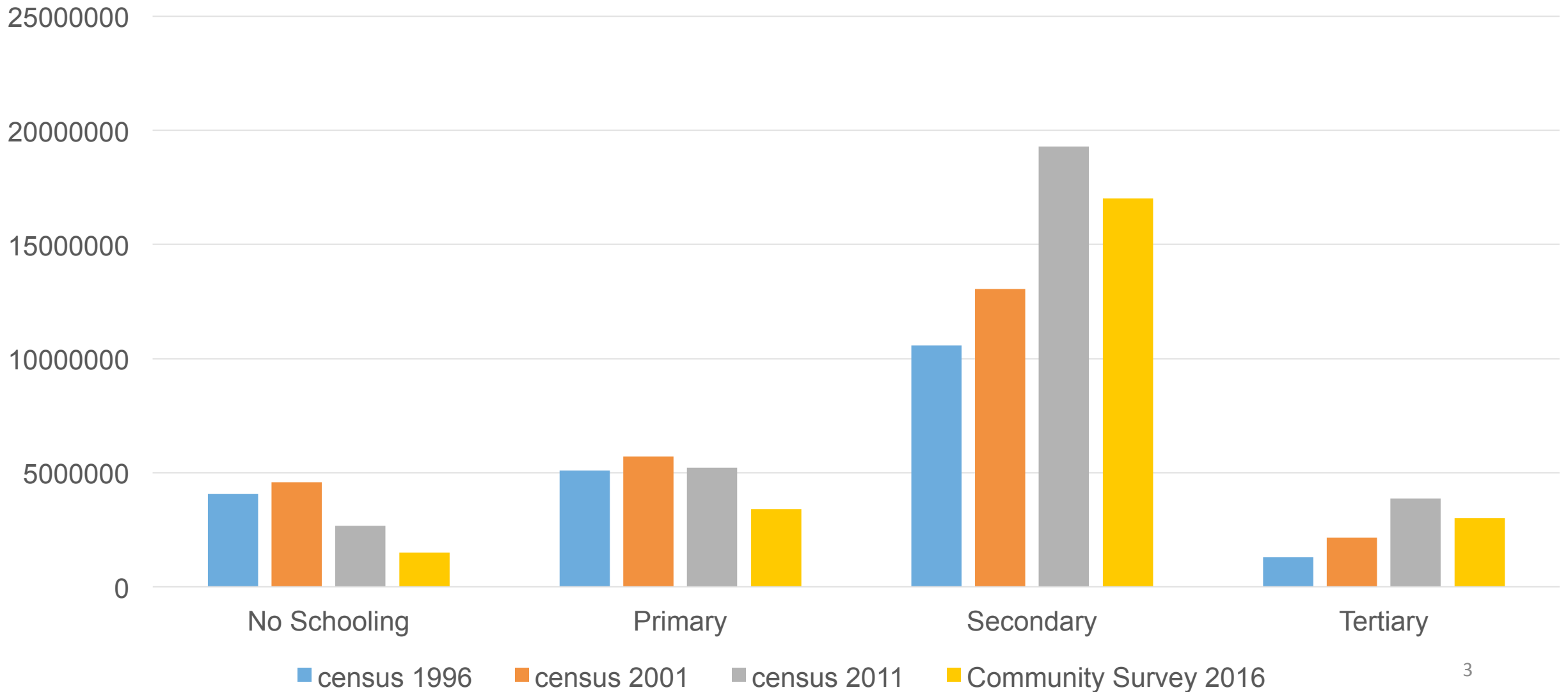
Philanthropy in Education

31 January 2019

The Presentation

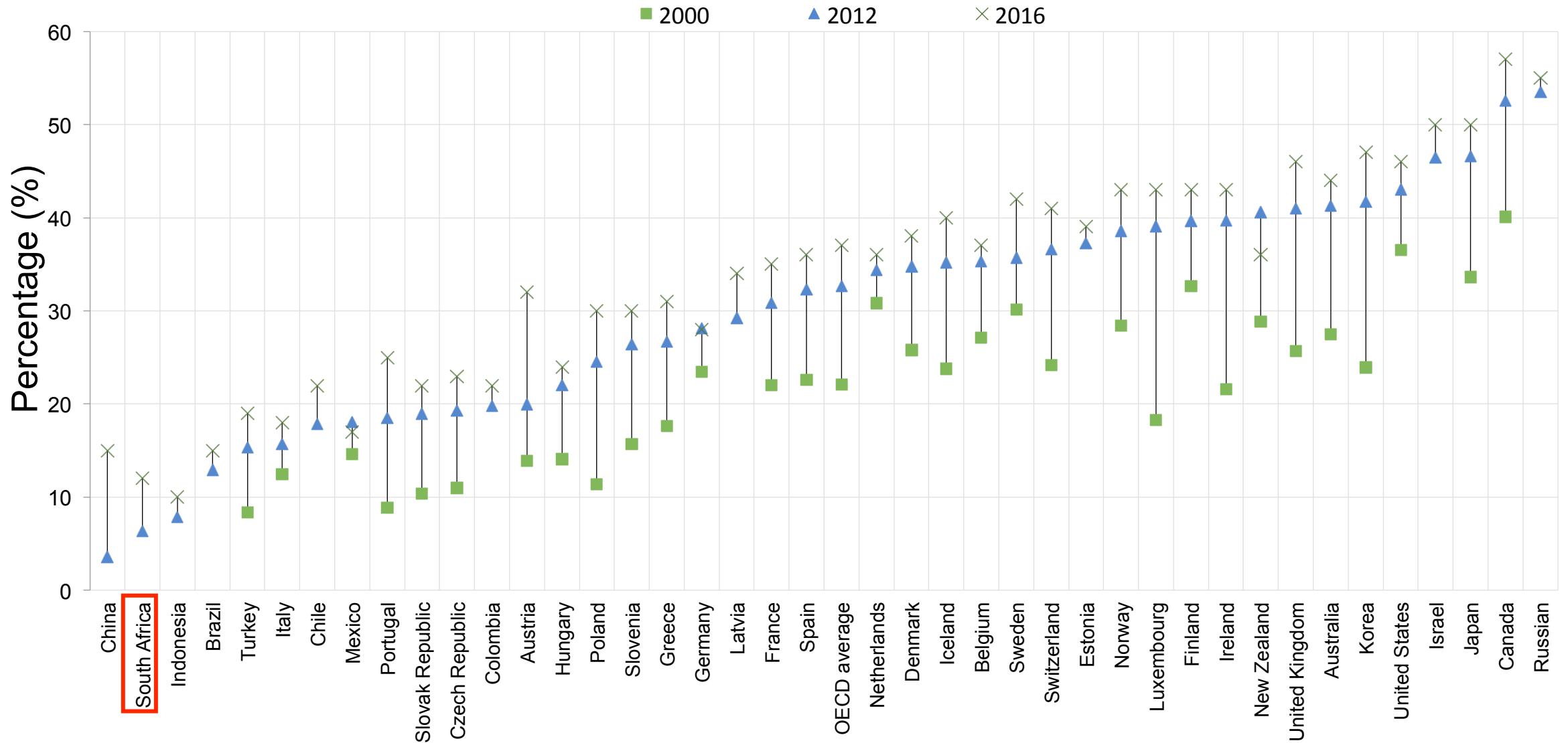
1. Helicopter View of the Education & Training system
2. Funding for the E & T system
3. **Achievement** Profile in the Schooling System
4. Enrolments and Performance in Post School Institutions
5. Priorities for improved learning outcomes.

1.1.Highest level of education of >25 years 1996 to 2016

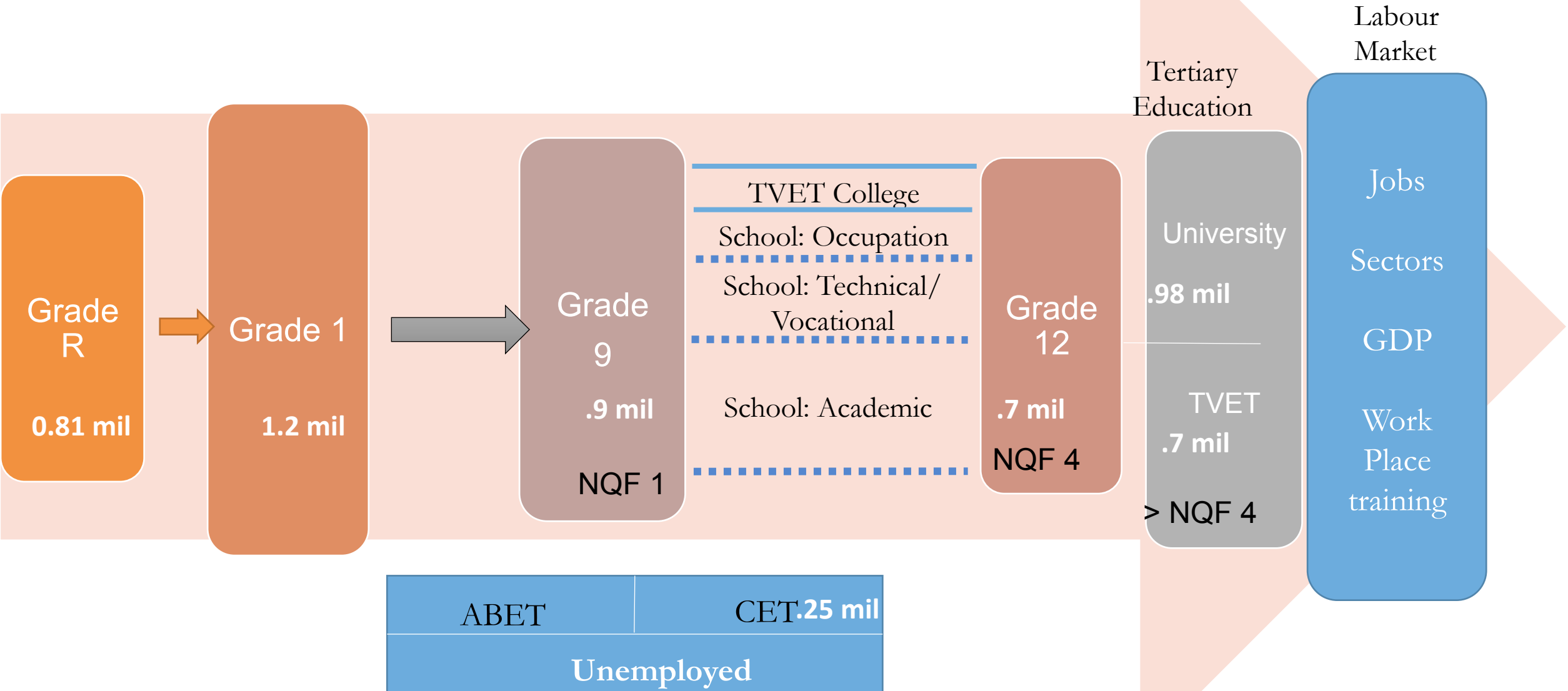


1.2. Where do we want to be?

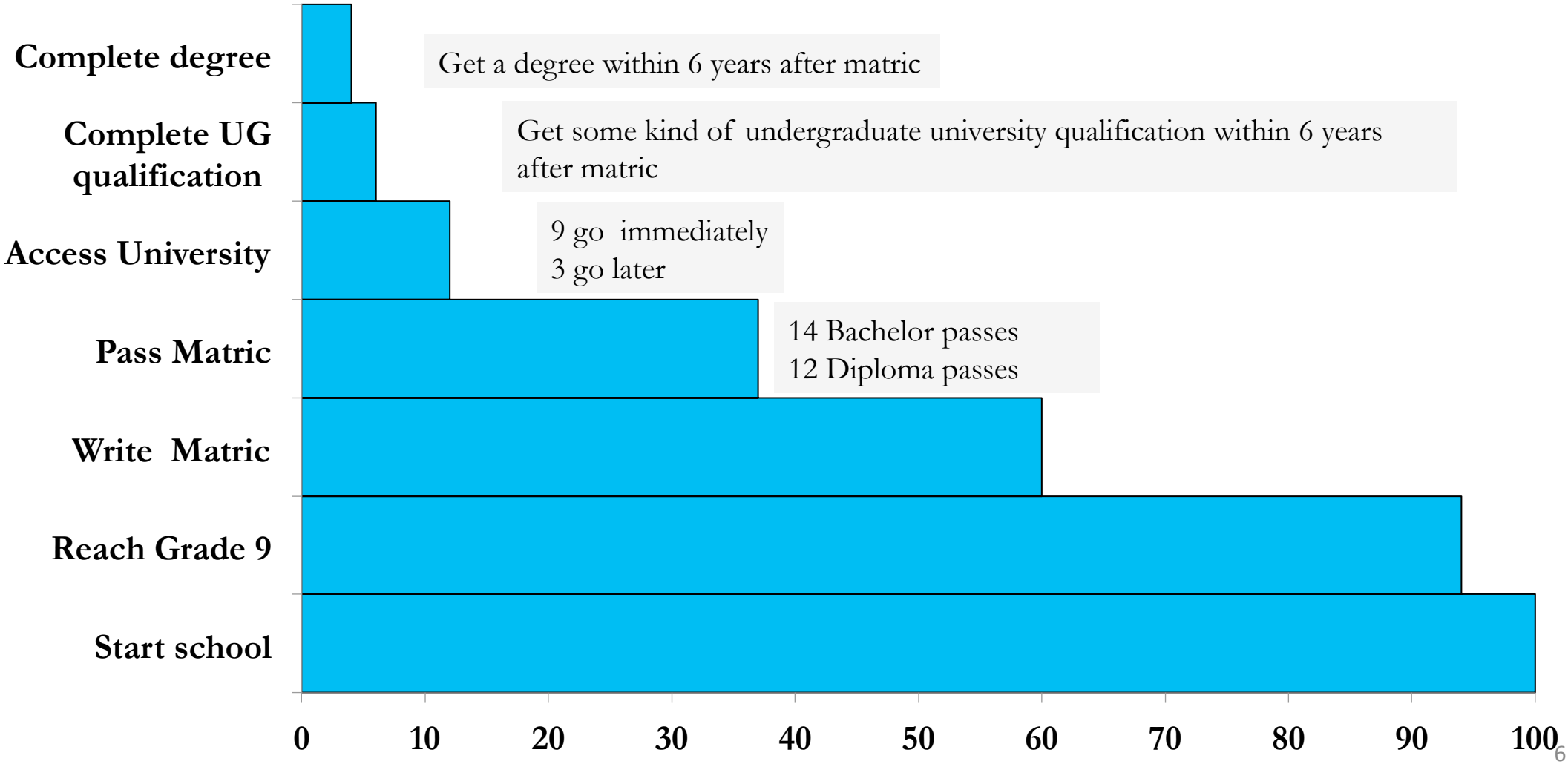
Tertiary educated 25-64 year-olds: 2000 to 2016



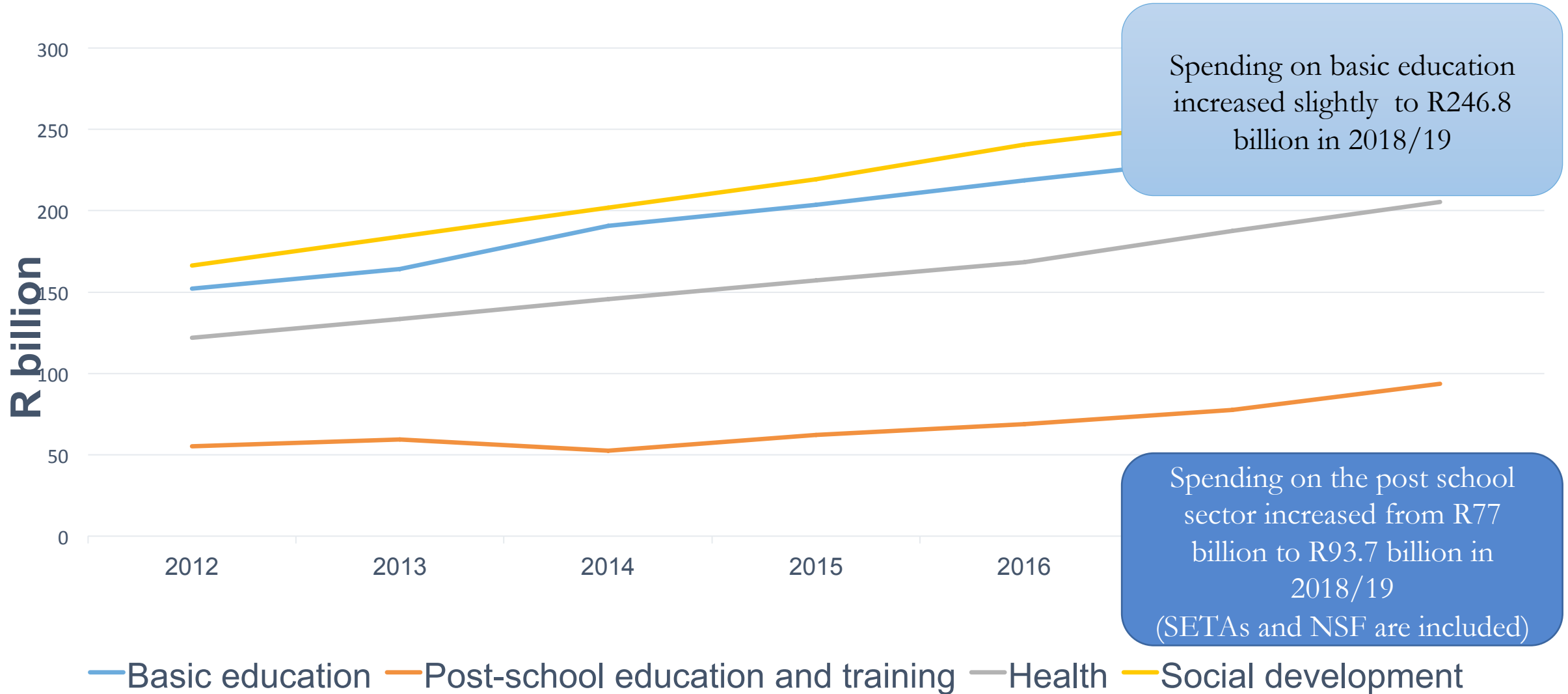
1.3. Helicopter View: Education & Training System



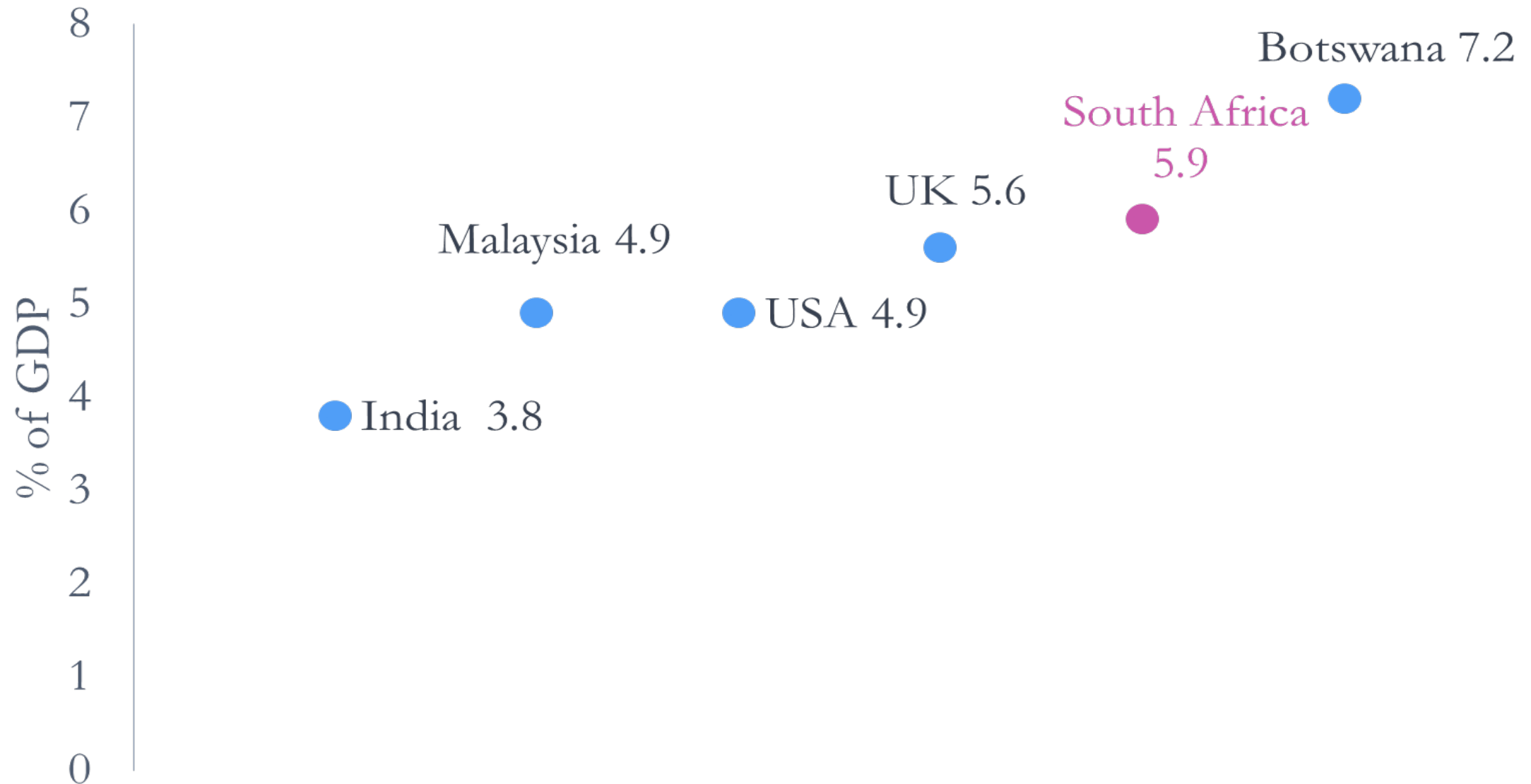
1.4. Progression from schools to tertiary qualifications



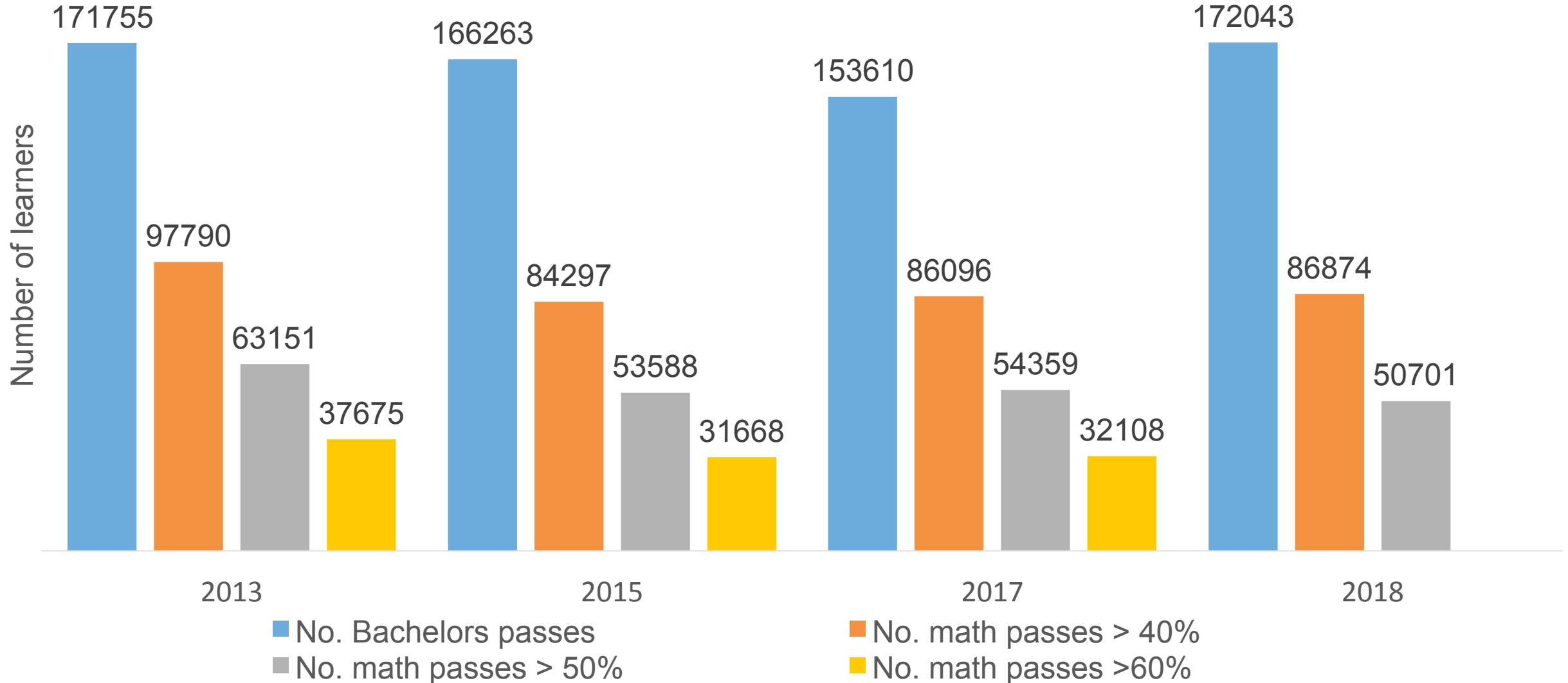
2.1 Trends in government expenditure on education and other main expenditures



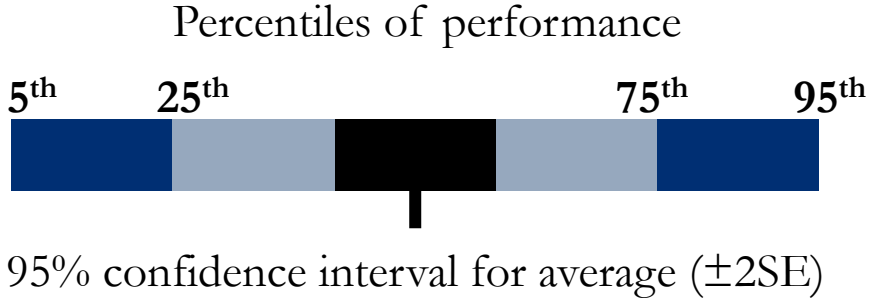
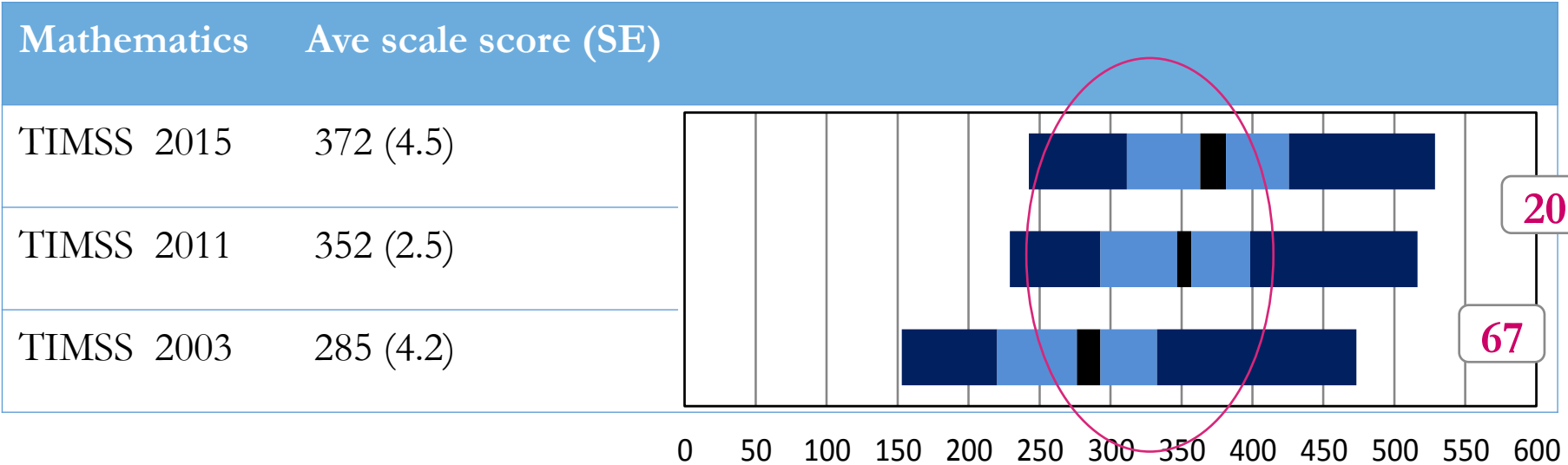
2.2. Expenditure on education: % of GDP, 2016



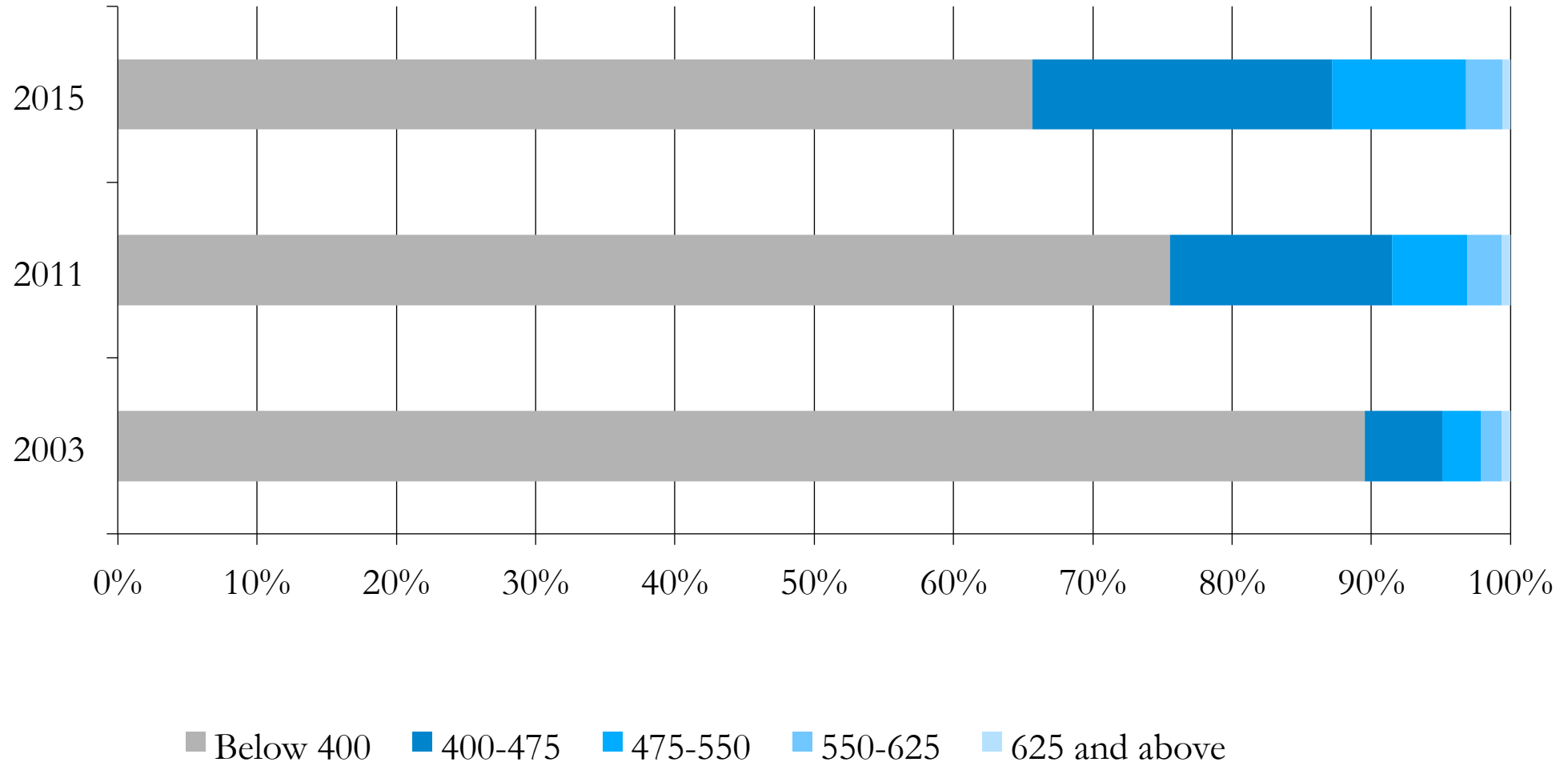
3.1. Constraint of competences from schools



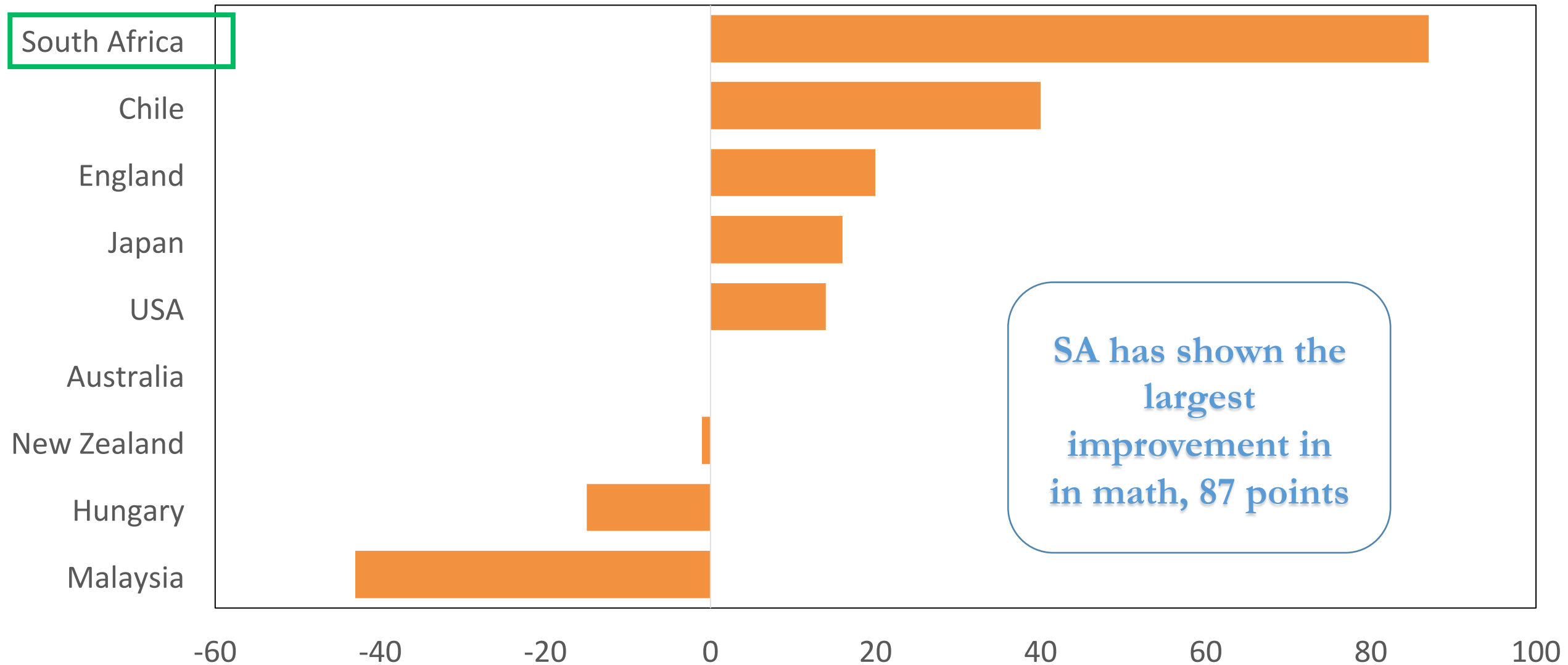
3.2. South African Math Achievement: 2003 to 2015



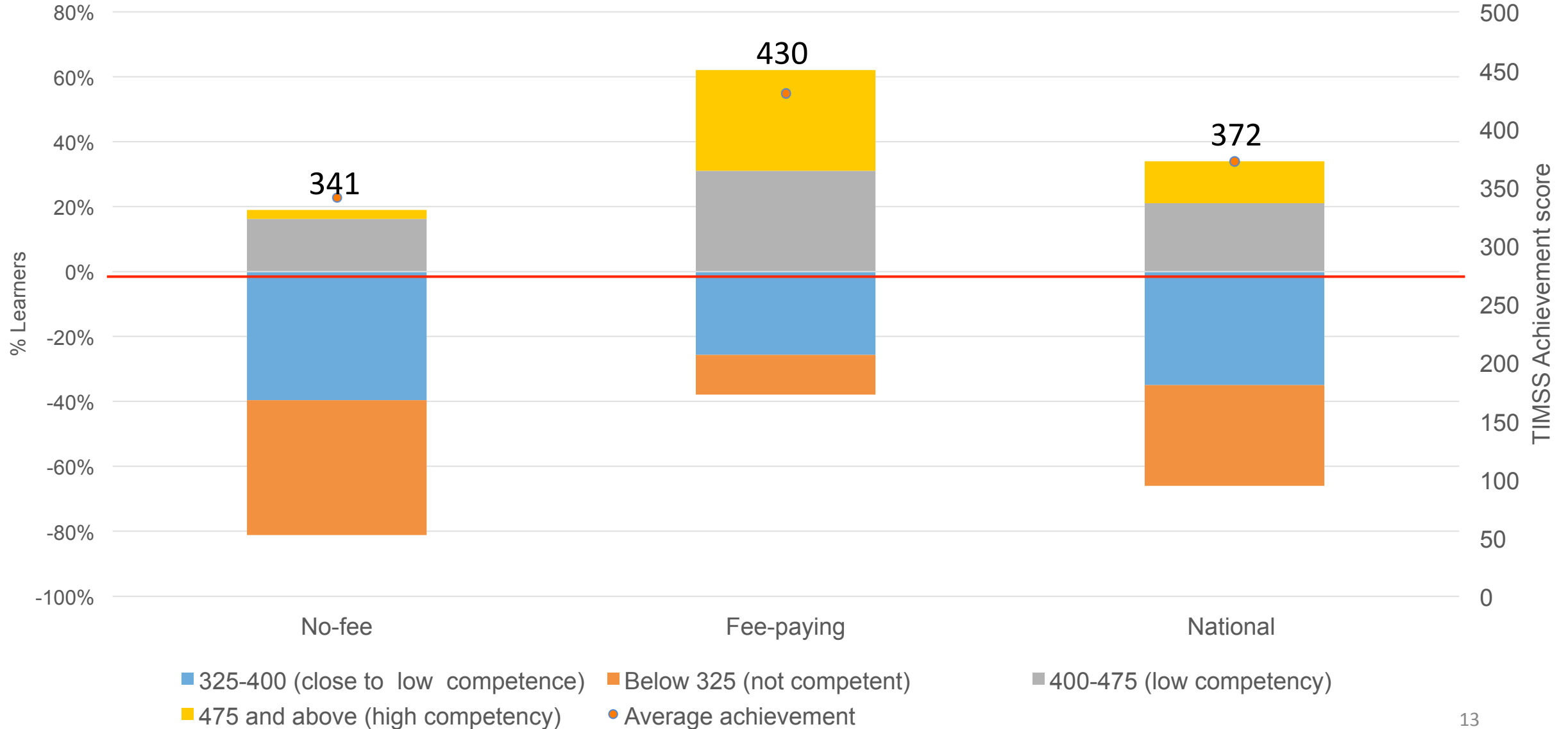
3.3. Math achievement Performance Profile



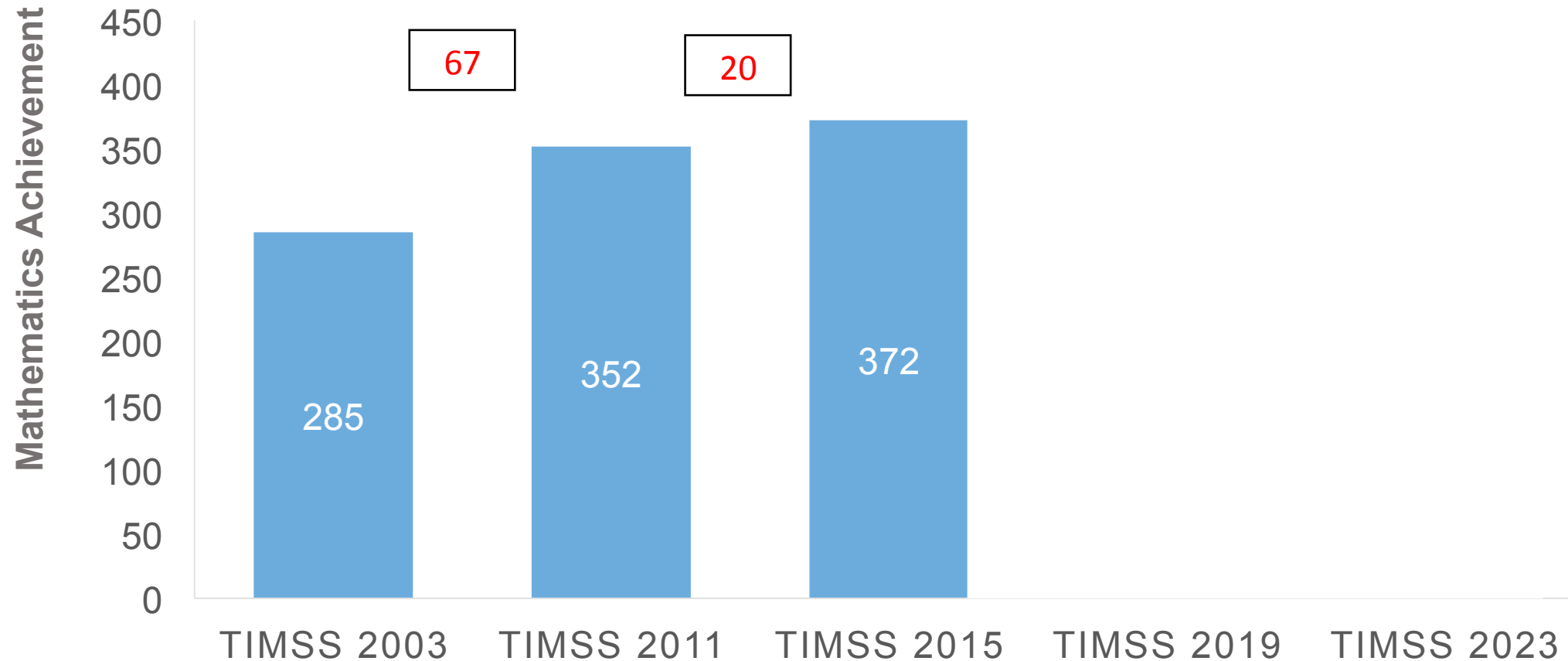
3.4. Change in math performance 2003 to 2015



3.5. Educational Inequalities: Home to School Continuities



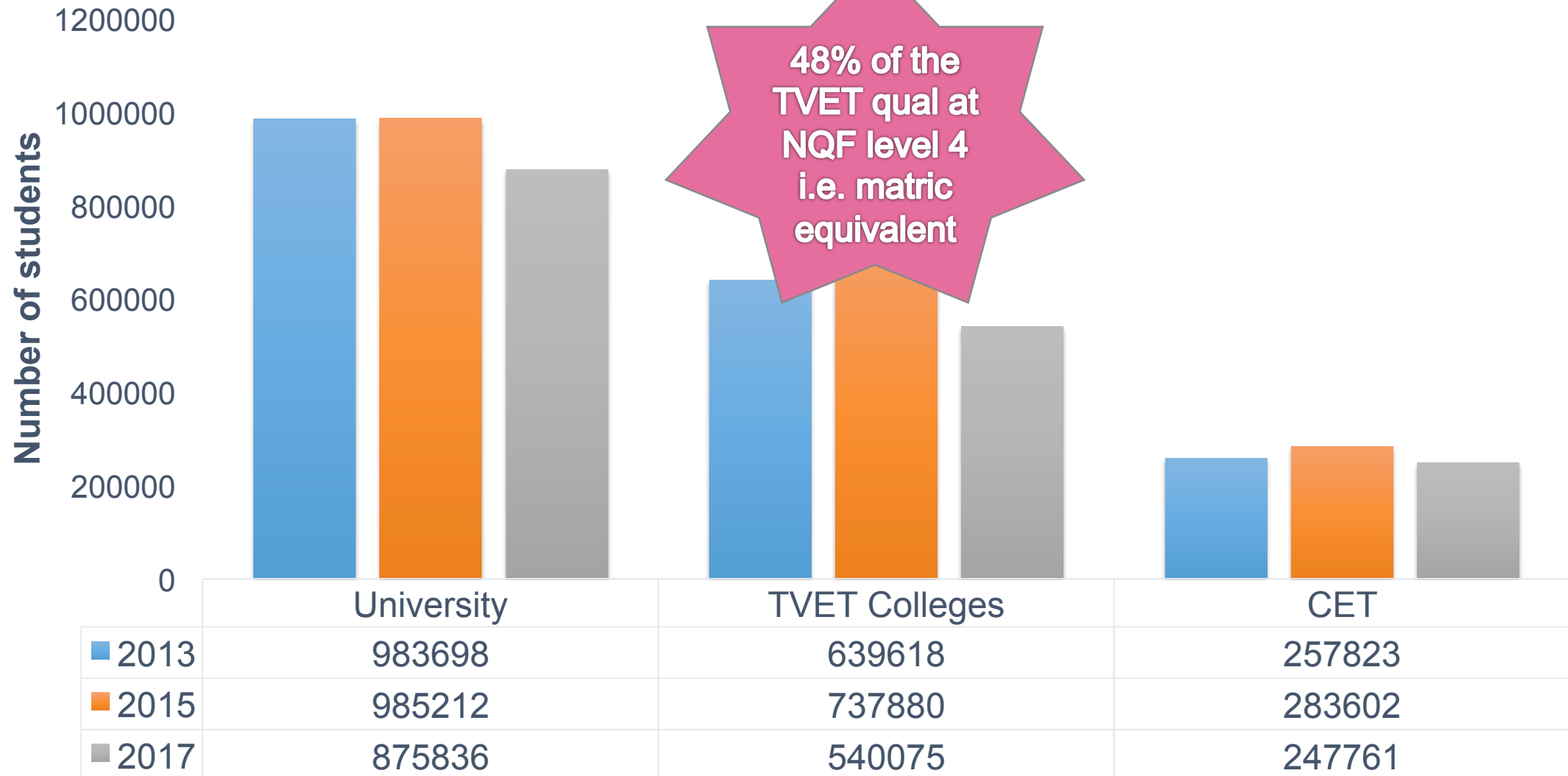
3.6. Predicting future performance: TIMSS Mathematics Achievement: 2003-2015 (2019? 2023?)



3.7. Similar patterns in Latin America

- Significant progress in expanding access to pre-school, primary and secondary.
- Major challenges in learning levels with gaps among sub-groups.
- Countries show the best changes in bottom quintiles and least at top quintiles.
- Priority is to target low income groups and change the material conditions as well as quality of instruction.

4.1. Enrolments at public post school institutions



4.2. University & TVET Completers, 2016

	TOTAL	Business, Economic & Management Science	Science, Engineering Technology	Humanities (incl. education)	Services
Universities, Diplomas and Degrees	203 076	56 364 (28%)	59 125 (29%)	87 587 (43%)	
TVET: NCV 4	11 716	5 807 (50%)	3 248 (28%)		2 661 (23%)
TVET: NATED 6	60 642	42 198 (70%)	12 848 (21%)		5 596 (9%)

5.1. Education Priorities

- All sectors: Schools, University, TVET colleges, Community Colleges
- Individuals or Institutions. *Schools Matter* There are only a few schools who produce high quality and quantity of matric mathematics and science passes.
- Reading/ literacy and Mathematical skills are key and knowledge and skills acquisition are hierarchical in nature and learning processes cannot be leap-frogged. Importance of Early Learning: First 1000 days (nutrition, vaccinations and sanitation) include cognitive activation followed by the First 1000 days of Schooling (Gr RR, R, 1, 2, 3) where cognitive stimulation and activation is promoted.

ALL RESEARCH REPORTS ON

- TIMSS SA WEBSITE
- LABOUR MARKET INTELLIGENCE PARTNERSHIP: LMIP.ORG.ZA

5.2. First 1000 days of a child life focusses on health, and first 1000 days of school focusses on solid educational foundations and roots

- High home condition variations. Children start grade 1 at different levels of school readiness. This impacts on early learning and predicts later achievement. Learning inequalities widen over the schooling period, especially for the poor.
- Solid foundations are best established by two years of schooling pre-grade 1 (Grade RR and R) offered in primary schools, especially for children in no-fee schools.
- High quality grade RR, R, 1,2,3 teaching and learning in well functioning schools with engaged teachers, small classes and support for learning.
- Focus on literacy and numeracy skills and knowledge.
- Decreasing learning gaps by grade 3, will lead to narrower score ranges in later grades. Therefore administer a universal assessment at grade 3 as key indicator of health of the system

5.3. Schools matter: Increase number of high performing learners and schools

- South Africa aspires towards a high skilled economy. Workers need to demonstrate problem solving, analytical reasoning, creativity, higher order critical thinking skills.
- Matric 2017: 153 610 students achieved a bachelors pass, for access to tertiary qualifications. 32 000 students scored above 60% for math. This is a small pool of quality science and mathematics school graduates who can access SET based tertiary qualifications
- There are just over 10 000 high schools who offer grade 12 classes in the country. There are only a few schools who produce high quality and quantity of matric mathematics and science passes. *Schools matter*

5.4. Gender difference in university enrolments and completions, 2016

