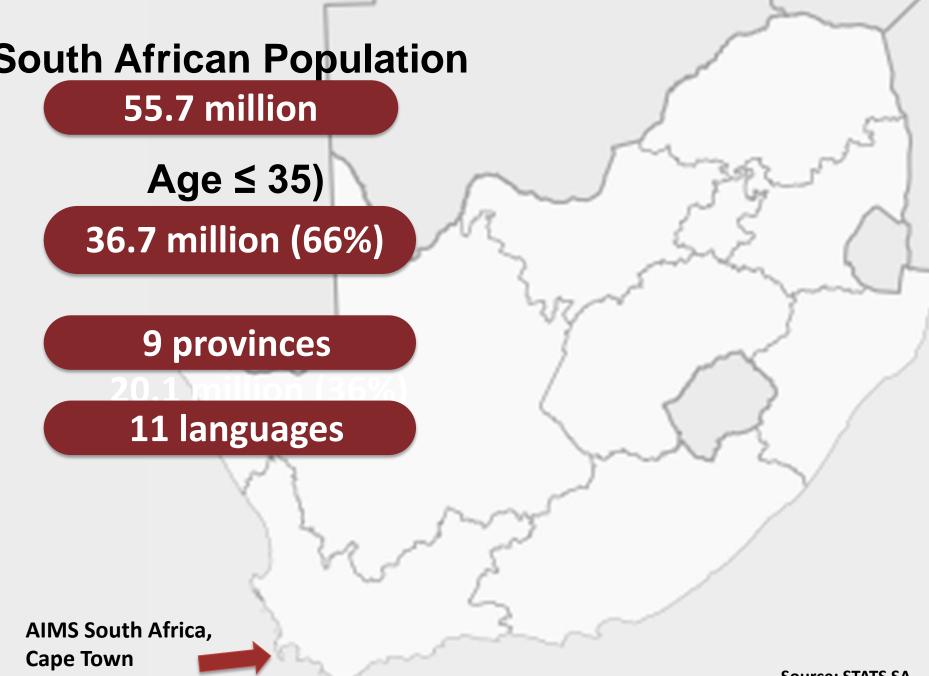




Drawing on the expertise of partnering institutions to promote IBSME as a common approach to teaching and learning

Sinobia Kenny 3 October 2017



Source: STATS SA

Primary Schools

- ~ 14 600 primary schools
- Taught in mother tongue to grade 3
- Language of Learning and Teaching English (90%) or Afrikaans (10%) (from Grade 4)
- SACMEQ III report: 79% of mathematics teachers in South Africa who taught Grade 6 learners obtained below the levels required for the learners to pass Grade 6

Secondary Schools

- ~6270 secondary schools
- 6.6% of secondary schools produce half the national passes in mathematics
- Top 1000 schools of the 93.4% remaining schools: teacher qualifications and teacher experience had no statistical significance in relation to the learners' results
- TIMSS 2011 Report, Grade 9 learners performed better by teachers who specialised in Subject Content Knowledge (SCK) and Pedagogical Content Knowledge (PCK)





www.wynghs.co.za/



www.schoolsplus.co.uk/millthorpe/facilities/main-school-hall/

www.citi.org.za/2015/03/19/unlocking-innovationtechnology-development-khayelitsha/

School Context







Classroom Environment

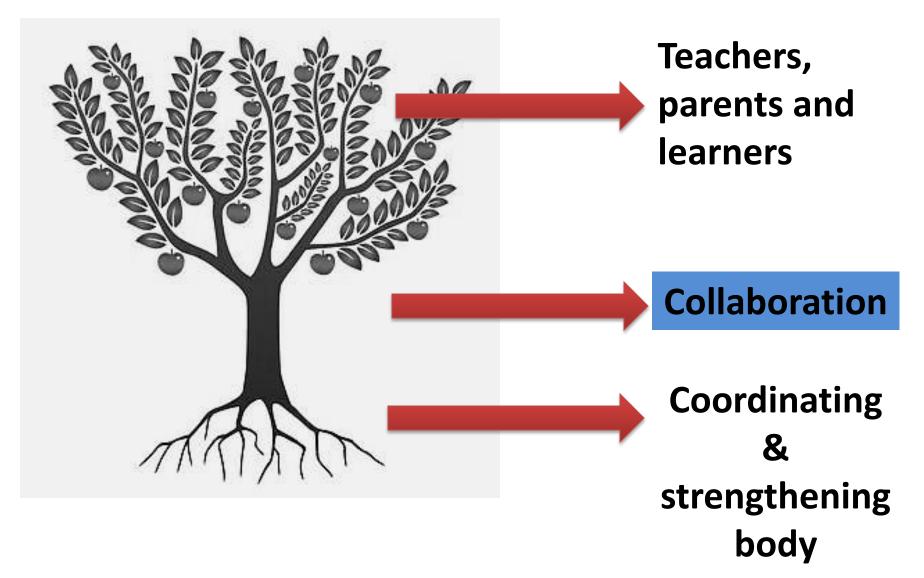


Interventions

- Upgrade qualifications
- Specialisation short courses
- Workshops
- Innovation projects
- Cluster projects
- Content gap

Little coordination across interventions and institutions.

Proposed approach to promote IBSME







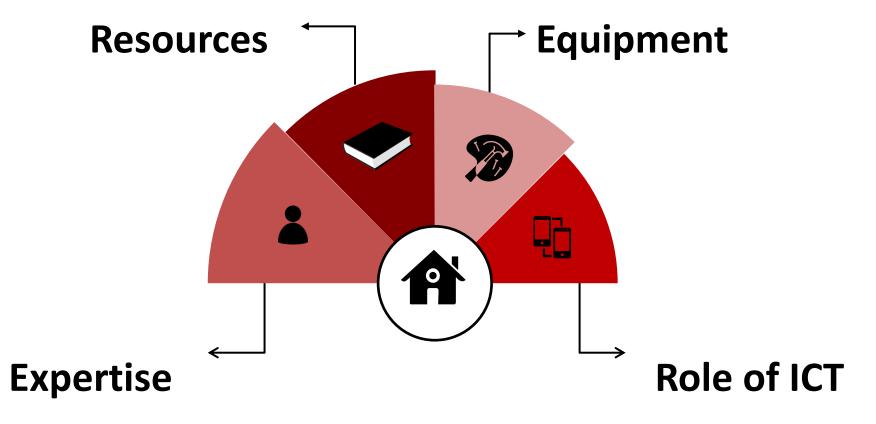
African Institute for

Initial Collaboration

- AIMSSEC (AIMS Schools Enrichment Centre)
- Primary Science Programme
- University of Cape Town (Schools) **Development Unit**)
- University of the Western Cape
- Western Cape Education Department

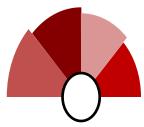


Teacher Training



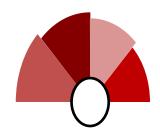
Expertise

- Rural and disadvantaged schools
- Face-to-face, distance and blended learning
- School-based support
- Research-informed interventions
- Integration of theory with context
- Teacher mentorship programme
- Collaboration between scientists and teachers



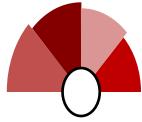
Resources

- Textbooks
- Learner support materials
- Professional development materials
- Online resources
- Endorsed/accredited courses
- Western Cape Education Department ePortal



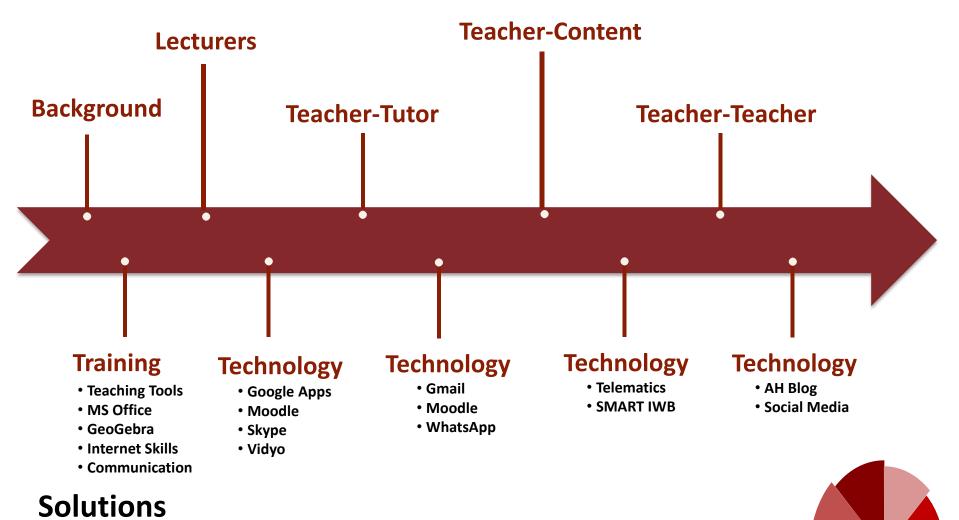
Equipment

- Office space at AIMSSEC, teaching facilities at two universities and one NGO, one boarding school
- Cape Teaching and Leadership Institute Professional Development Centre of the Western Cape Education Department
- ICT infrastructure and devices being rolled out in Western Cape to all schools



Role of ICT

Problems



Professional Learning Model





World class teacher trainers



Tutor system



Free resources





PLNs

Thank you