





Measuring for Success

The role of assessment in achieving learning goals

4th READ Global Conference | May 12–16 2014 | St. Petersburg | Russian Federation

Use of assessment to monitor and attain learning goals in South Africa

Anil Kanjee



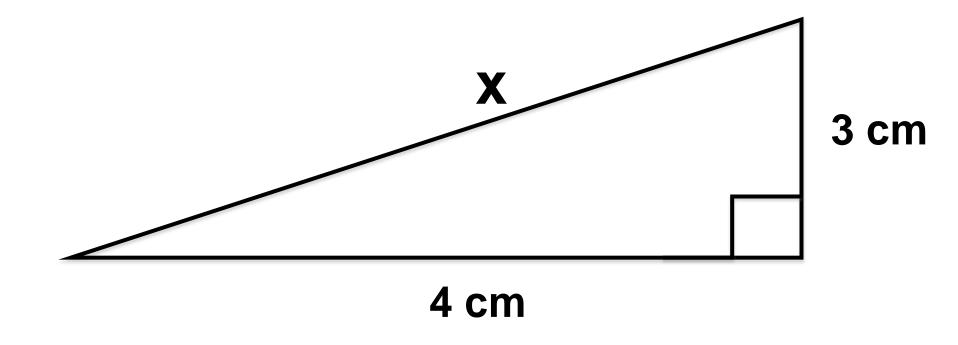
History Question

Where was the American Declaration of Independence Signed?



Maths Question

3. Find x





Maths Question

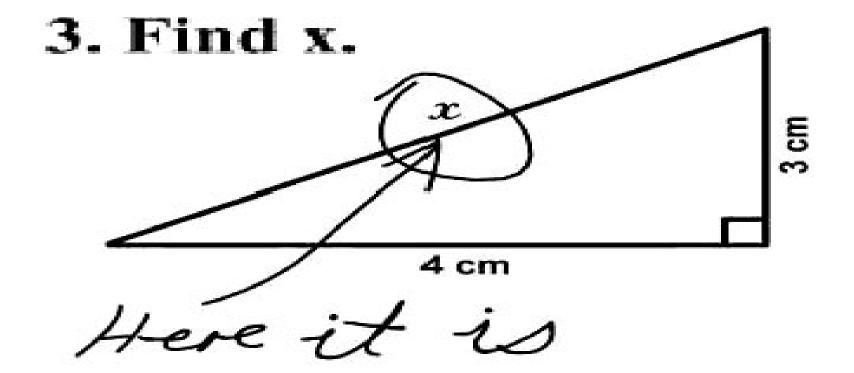
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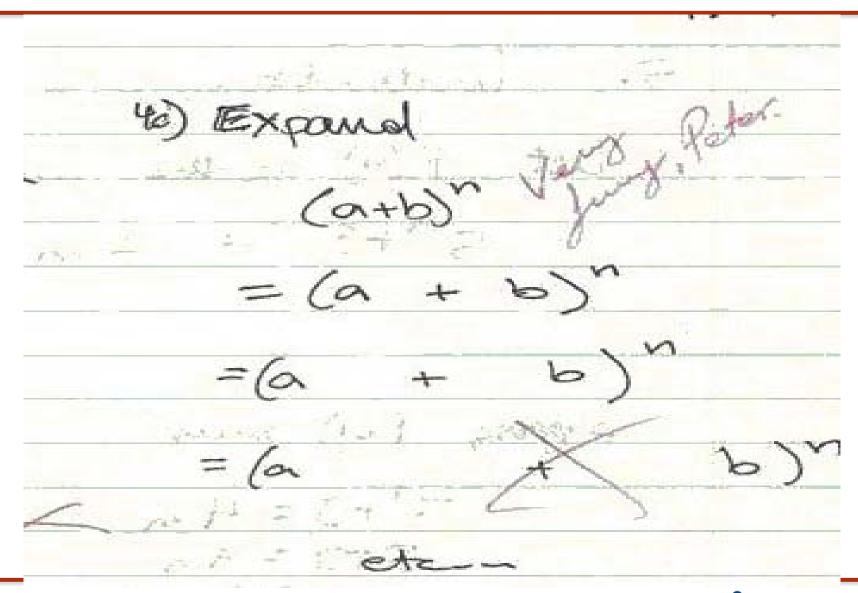


Student Response





Student Response





Outline of presentation

1. Background - developing learning outcomes

- Policy Context
- Systems and structures: development and monitoring

2. Learning Goals in South Africa

- Kinds of learning goals and assessments
- Reporting and communication of goals

3. Key lessons for policy makers / countries

- Development, reporting and communication
- Are learning goals being attained?
- Tensions between local versus national versus global goals
- Is assessment helping or hindering attainment of goals?

4. Way forward and Future challenges



Background to developing learning outcomes



Brief Description

- Long term consultation process
 - Began in 2004 2009 3rd term of new government
 - 12 Key outcomes
- Government wide policy framework
 - For monitoring and evaluation of goals and targets
- Spearheaded by office of the President
 - Dept. of Performance Monitoring & Evaluation (2009)
 - National Development Plan 2030 (2012)
- Delivery agreements (2009 2014)
 - Between Minister and President
- Systems for data collection and reporting
 - Annual National Assessments



12 Key National Outcomes

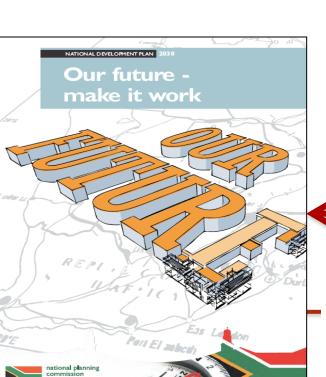
1. BASIC EDUCATION: Quality basic education

- 2. **HEALTH**: A long and healthy life for all South Africans
- 3. SAFETY: All people in South Africa are and feel safe
- 4. **EMPLOYMENT**: Decent employment through inclusive economic growth
- 5. **SKILLS**: Skilled and capable workforce to support an inclusive growth path
- 6. **ECONOMIC INFRASTRUCTURE**: An efficient, competitive and responsive economic infrastructure network
- 7. RURAL DEVELOPMENT: Vibrant, equitable, sustainable rural communities contributing towards food security for all
- 8. INTEGRATED HUMAN SETTLEMENTS: Sustainable human settlements and improved quality of household life
- 9. LOCAL GOVERNMENT: Responsive, accountable, effective and efficient Local Government system
- ENVIRONMENT: Protect and enhance our environmental assets and natural resources
- 11. INTERNAL AND EXTERNAL RELATIONS: Create a better South Africa, a better Africa and a better world
- 12. PUBLIC SERVICE: An efficient, effective and development oriented public service and an empowered, fair and inclusive citizenship

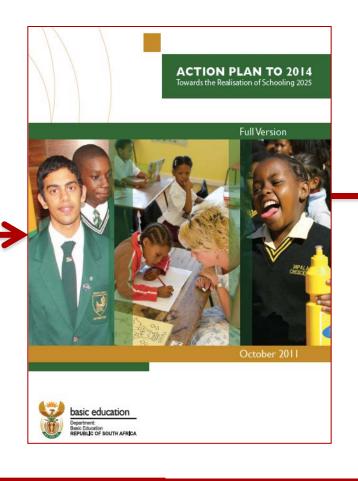


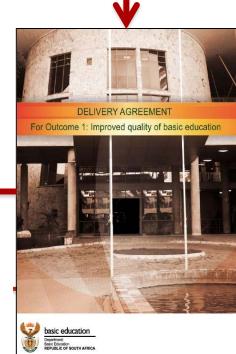


Policy Framework for the Goverment-wide Monitoring and Evaluation System



Key Documents





Learning Goals in South Africa

- Overview of learning goals
- Overview of assessments
- How goals and indicator specified?

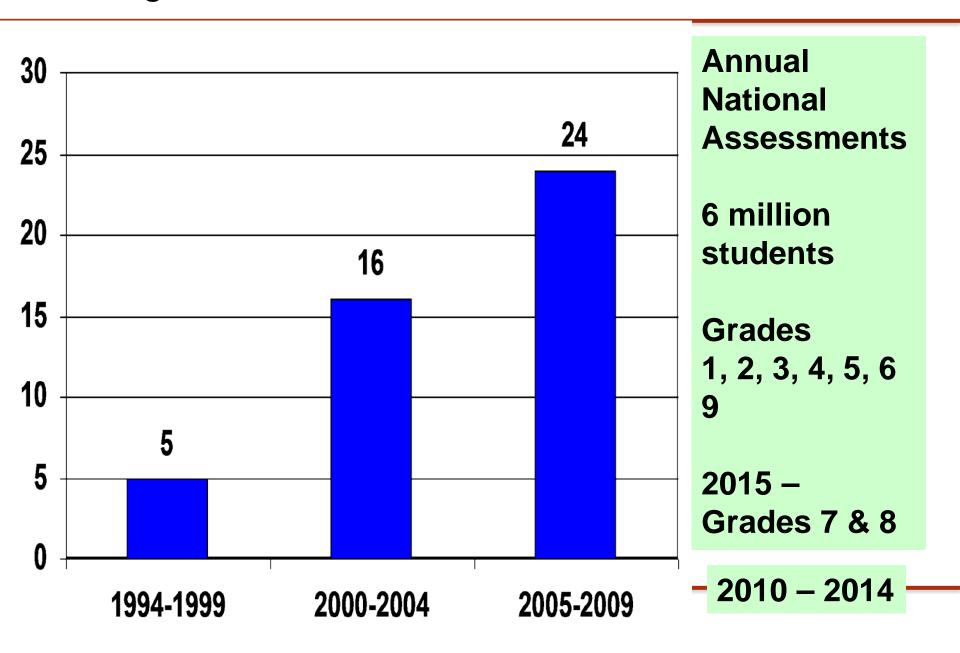


Developments in Education Sector

- Well established and strong examination system
 - Over 120 years experience
- Improvement in capacity to implement NAS
 - Within Ministry
 - External agencies
- DRAMATIC increase in National Assessment Surveys
- Increase in Participation in Regional and International Surveys
- Key Policy review and revisions



Large Scale Assessments in SA 1994 - 2014



Overview of Learning Outcomes

- Link to specific goals and targets
- Listed in the Minister's Delivery Agreement
 - 4 Key outputs
 - 27 indicators
- 12 Indicators related to learning outcomes

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stan roste	e percentage of learners in schools with a library or media centre fulfilling certain minimum notards.	1.2
22 The	e percentage of schools producing the minimum set of management documents at a required ndard, for instance a school budget, a school development plan, an annual report, attendance ters and learner mark schedules.	4.1
effec	e percentage of schools where the School Governing Body meets minimum criteria in terms of ectiveness.	
23.1 The	e percentage of learners in schools that are funded at the minimum level.	4.1
	e percentage of schools which have acquired the full set of financial management ponsibilities on the basis of an assessment of their financial management capacity.	
Infra	e percentage of schools which comply with nationally determined min/mum physical astructure standards.	4.1
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	e percentage of schools which comply with nationally determined optimum physical astructure standards.	
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Minster's Delivery Agreement

- Output 1:Improve the quality of teaching and learning
- Output 2: Undertake regular assessment to track progress
 - Sub output 1: Establish a world class system of standardised national assessments
 - Sub output 2: Extract key lessons from ongoing participation in international assessments
- Output 3: Improve early childhood development
- Output 4 Ensure a credible, outcomes-focused planning and accountability system
 - Sub output 1: Strengthen school management and promote functional schools
 - Sub output 2: Strengthen the capacity of district offices

Delivery Agreement LO Indicators

Indicator

- 1.1 Percentage of Grade 3 learners performing at the required literacy level according to the Annual National Assessments.
- 1.2 Percentage of Grade 3 learners performing at the required numeracy level according to the Annual National Assessments.
- 2.1 Percentage of Grade 6 learners language level according to the Ann 2.2 Percentage of Grade 6 learners mathematics level according to the

Annual National Assessments

3.1 Percentage of Grade 9 learners performing at the required language level according to the Annual National Assessments.

3.2 Percentage of Grade 9 learners performing at the required mathematics level according to the Annual National Assessments.



Delivery Agreement LO Indicators

Indicator

- 4 Number of Grade 12 learners who become eligible for a Bachelors programme in the public national examinations.

 Grade 12 End of
- 5 Number of Grade 12 learners
 6 Number of Grade 12 learners passing physical science.
- 7 Average score obtained in Grade 6 in Janquage in the SACMEQ assessment.

 Regional Survey -
- 8 Average score obtained in Grace of in Gr

International Survey - TIMSS

Key Lessons

- Development of learning goals
- Obtaining evidence of learning
- Are learning goals being attained?
- Tensions between local, national & global goals
- Are assessment surveys helping or hindering attainment of goals?



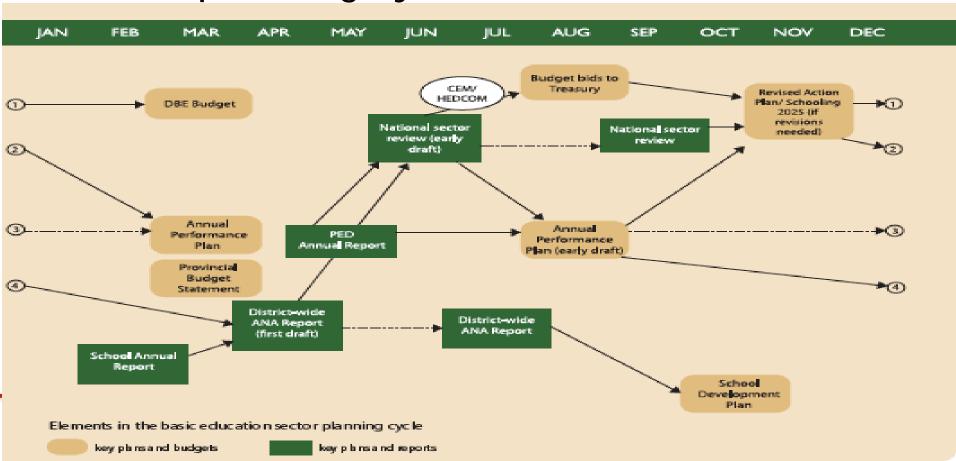
Development of learning goals

- Requires time and strategic consultation
- Start with what you have Catch 22 in beginning stages
 - Require reliable data to set realistic targets
 - No reliable data available
- No single agency responsible for data
 - No repository / database within Ministry
 - QUESTION If you want data / results <u>NOW</u> from studies conducted a few years ago, Do you know where to get from?
 - NO? Unsure You / System in trouble ???
- Accountability systems critical
 - To take responsibility
 - To ensure focus on goals
 - Unintended consequences teaching to the test SA Context good thing - for NOW



Planning

Planning process accounts for the budgeting process, government reporting requirements, annual planning cycles, etc. -



Strategic focus of Goals

Goals focus on key stages of the schooling system

- Grade 3 end of Foundation Phase -
- Grade 6 end of Intermediate Phase (Primary)
- Grade 9 End of Senior Phase (Junior Secondary)
- Grade 12 end of Schooling



Clarity - Goals, targets & indicators

Goal 1

 Increase the number of learners in Grade 3 who, by the end of the year, have mastered the <u>minimum</u> language and numeracy competencies

Indicator

 Percentage of Grade 3 learners performing at the required literacy levels according to the Annual National Assessments

Target

• 2014 - 60%

Minimum NOT specified



Consensus & Communication

Goals & targets specified in:

- Minister's delivery agreement
- Action Plan 2014
- National Development Plan
 - Specifies "the required competency levels be defined as 50 percent and above"
 - Ministry document Percentage of ... learners performing at the <u>required .. Levels</u>



Ownership & Responsibility

National & Regional (SACMEQ) Assessments

- Ministry initiatives managed and funded
- Provincially managed & reporting
- Developed capacity within Ministry
- Used in planning, reported to Parliament, etc.

TIMSS & PIRLS - Prior to 2010

- Managed & funded University & Research Council
- No national or provincial ministry involvement
- Besides press outcry, limited (OFFICIAL) uptake and response from Ministry

CURRENTLY

- Ministry funded,
- Included as indicators and targets
- CHALLENGE Districts, schools & some provinces See National assessments as another task to complete



Long term targets

- Specified in Action Plan 2025
- Linked to Minister's delivery agreement

	Indicator	2009	2010	2011	2012	2013	2014	2019	2024
1.1	Percentage of Grade 3 learners performing at the required <i>literacy</i> level according to the country's Annual National Assessments.	48	50	53	55	58	60	75	90
1.2	Percentage of Grade 3 learners performing at the required <i>numeracy</i> level according to the country's Annual National Assessments.	43	50	53	55	58	60	75	90

Accountability

- Minister accountable to deliver on goals
- Currently -accountability mechanism for schools and teachers under discussion
 - Action Plan 2014 -
 - **≻**Unclear
 - Once-off incentives to ALL teachers in school demonstrating improvement
 - National Development Plan
 - ➤ Hold schools and school principals accountable for performance?
 - Argues for testing of principals as well



Assessment surveys helping or hindering?

- Assessment Surveys only useful if CONSENSUS and OWNERSHIP regarding:
 - Purpose
 - How results will be used
 - Key agency/unit for managing survey

- SA Experience
 - National Assessments
 - Regional & International Assessments



Clear Purpose of Assessments

- **1999 2010**
 - To monitor attainment of key policy goals regarding Access, Quality, Equity, Efficiency
- **2**010 2014
 - Expose teachers to better assessment practices.
 - Provide districts with information to target schools in need of assistance.
 - Encourage schools to celebrate outstanding performance.
 - Empower parents by providing them information about the education of their children.



National Assessments: DUAL Purposes

Dual Purpose

- System
 - Monitoring & Evaluation Purposes
 - Focus on National and Province
- Local
 - Intervention Purposes
 - Focus: Districts, Schools, Teachers, Learners & Parents

PROBLEM

- Single Assessment
- No specification for monitoring and evaluation of system



Use of Results

Purpose		Reporting			
National Level - Monitor & evaluate p system (Implicitly st	Trends in perform				
Province & Dis Identify schools in near and effect relevant i		levant	ance by I ntervention		
•Provide information strengths & weaknes •Provide support to le •Inform parent on per their children	earners in need	Dable Report to cach in the latest the lates	f each learner		



Use of Results

Purpose

Challenges

National Level -

Monitor & evaluate performance of system (Implicitly stated)

Trend data must be comparable SA - all test items released and thus new tests not comparable

Province & District

Identify schools in need of support and effect relevant interventions

Unclear why scores improving or declining?

Annual administration - limited time for interventions

School, Teacher & Parent

- •Identify learner strengths & weaknesses
- Provide support to learners in need
- •Inform parent -performance of their children

Annual data - good as data for new students

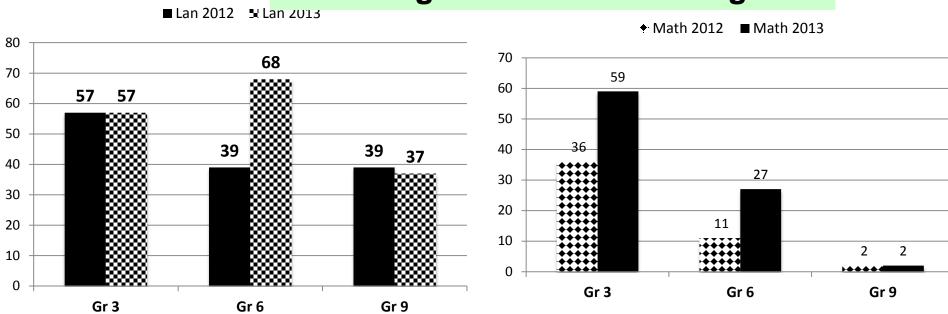
Results based on arbitrary cut-points which provide limited information for intervention



Example - Comparing Trends

- How to explain these results?
 - Improvement / Decrease in performance?
 - Change in test difficulty?
- Implications for interventions?

Percentage students obtaining 50%





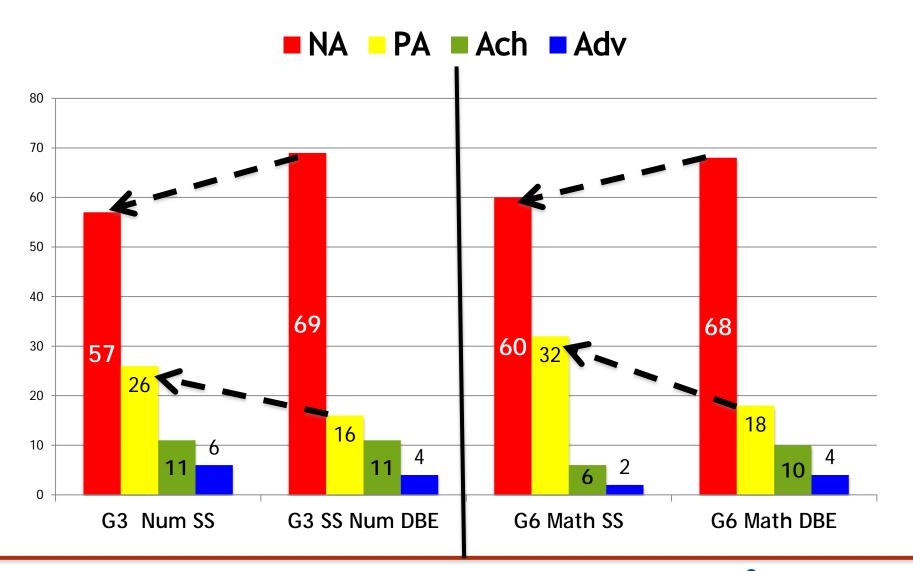
EXAMPLE ANA reporting - Challenge

- Scores reported by <u>four</u> levels of achievement to provide more information to teacher on which learners need support
- No empirical basis of selecting these cut-scores
 - why 35% and not 30% or 25%
 - Why 50% and not 60%?

Not	Partially	Achieved	Outstandin
Achieved	Achieved		g
0-34%	36-49%	51-69%	71-100%

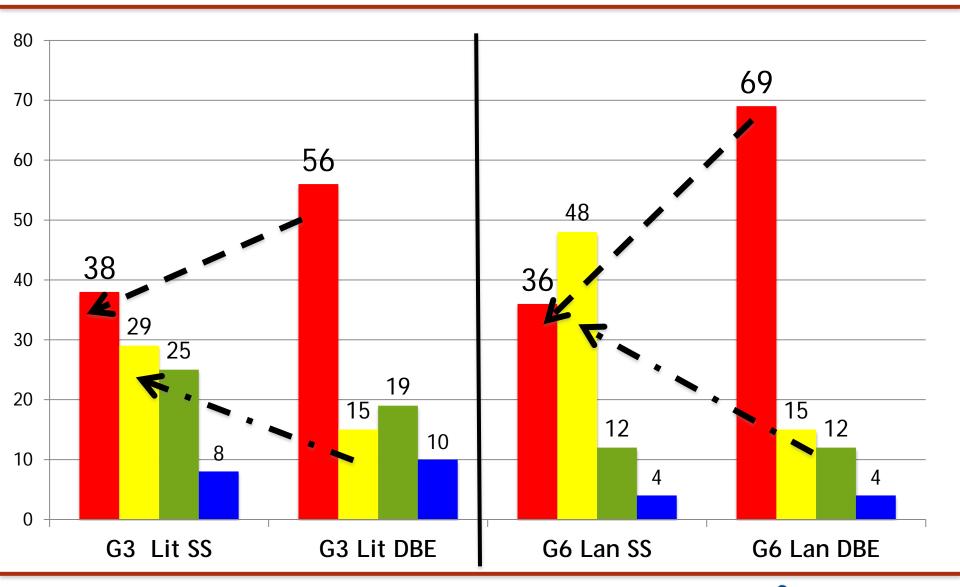


DBE Reporting vs SS - Maths



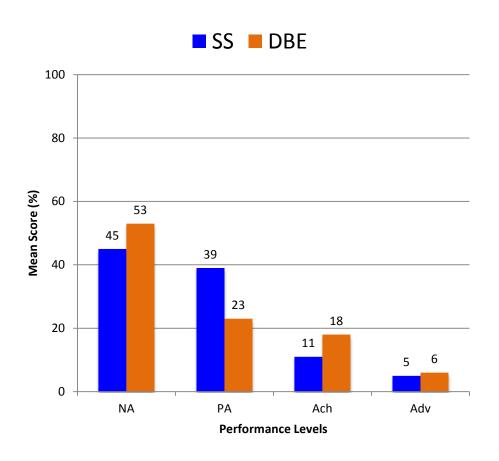


DBE Reporting vs SS - Languages





Similar inaccuracies by province & district



SS DBE 100 80 Mean Score (%) 53 45 26 22 20 18 20 PA NA Ach Adv **Perforamnce Levels**

Grade 6 Language

Grade 6 Mathematics



District Performance - Grade 3

 Incorrect identification of learner performance levels - Significant implications for interventions
 cost, time, planning, etc,

Grade 3	District No.	% of learners in each achievement category				Sum: Ach + Out
Subject		NA	PA	Ach	Out	ACII + Out
Literacy	Α	42	20	31	7	38
	В	25	23	28	24	52
	С	57	25	12	6	18
Numeracy	Α	50	30	10	10	20
	В	31	28	26	15	41
	С	64	33	2	1	3



Summary

- ANA scores inaccurately reported
 - DBE levels over-estimate % learners at NA level (lowest level)
 - DBE reporting under-estimate % learners at PA level
 - No clear trend (or problems) noted at the highest levels.
- IMPLICATIONS Negative impact on interventions
 - incorrectly identifying schools and learners for intervention
 - Greater costs ito funds and HR



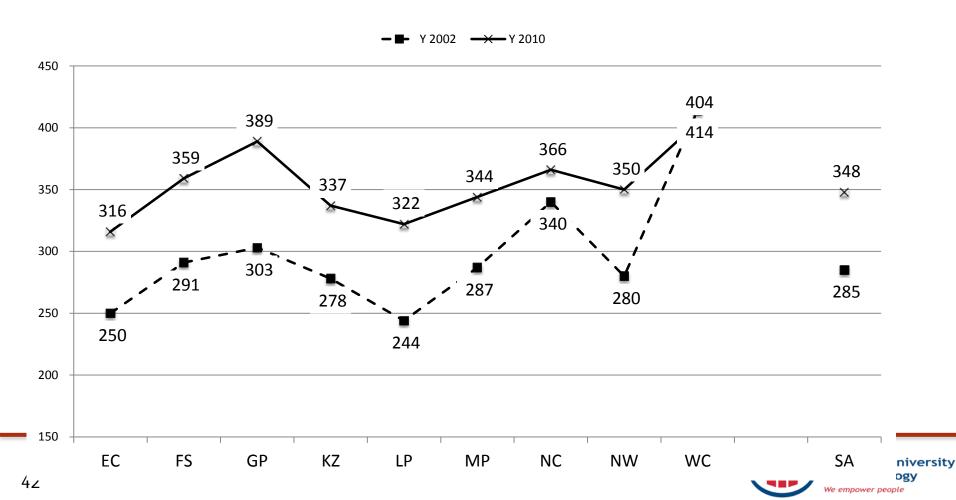
TENSIONS - local, national & global results

- International survey results mainly impact on policy makers - rarely teachers and public besides the period when results are published
- Creates confusion in relation to National Ass
 - Different scales,
 - Different time frames
 - Different instruments
 - Different results
- Grade 9 TIMSS results vs ANA results



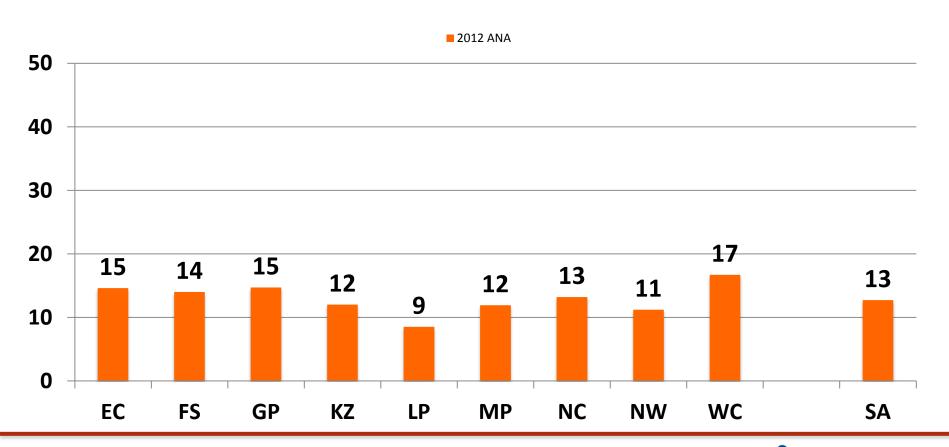
EXAMPLE Grade 9 TIMSS vs ANA results

- TIMSS 2011 Grade 9 Maths results
 - Overall 63 point improvement



Grade 9 2012 ANA results

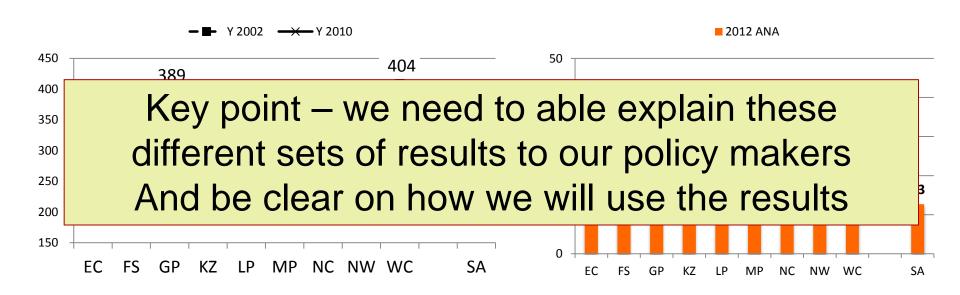
- National Average 13%
- Provincial averages 9 to 17%





Grade 9 TIMSS vs ANA results

- Question how is it that we show improvement in international surveys but find EXTREMELY low performance in our National Survey?
- What do these two sets of results tell us? What does this mean for interventions?
- Which set of results do policy makers use?





Obtaining evidence of learning - Key issues

- Require long term, integrated strategy
 - National, regional and international data
- Realistic time frames to collect data
 - Annually or Regular Cycles?
 - Census or Sample?
- Capacity to use assessment evidence
 - District officials?
 - Teachers
 - School leadership Principal & Deputy, HoD
- Assessments to measure change
 - No interventions No use to measure again



Are learning goals being attained?

- Difficult to tell at the moment
 - No valid data to monitor trends (i.e. data not comparable)
 - Indicator unclear "required level" ??
 - Results NOT reported using valid sound standard setting measures

 NB - mechanism to monitor & evaluate Assessment System



Summary Key Lessons - revise??

- Government wide framework and support
- Integrated national framework
- Clear goals and targets
 - Long and Short term
 - Different levels of the system
- Specific accountability systems
 - Key persons held accountability
- Regular, valid & reliable evidence
- Effective systems for reporting, dissemination and use of evidence



Way forward and Future Challenges



Way forward - Improve system

- International Advisory Committee established
 - Review assessment system to establish an integrated & effective assessment system
- Improving capacity at province and district levels to enhance use of assessment data
- National Reporting Framework
 - Standard setting process
- Implement effective accountability system



Way forward - Teachers

- Trainees Teachers -
 - Comprehensive 3 year programme on
 - 1. testing AND
 - 2. classroom assessment;
 - FOCUS use of assessment evidence & provision of feedback to improve learning and teaching
- In-service -
 - Similar programmes but Large scale (District wide)



Future challenges

- Improving administration, data management and reporting of ANA
- Training district and provincial officials
- Scaling up in-service programme
- Extending pre-service programme to all teacher training institutes
- Implementing effective accountability mechanisms at lower levels of system



Conclusion

Significant progress made over the last 15 years in improving the assessment system in South African education sector.

However, we still have a long way to go before we have an integrated, and effective assessment system for use in improving learning and teaching practices in all schools.



Questions

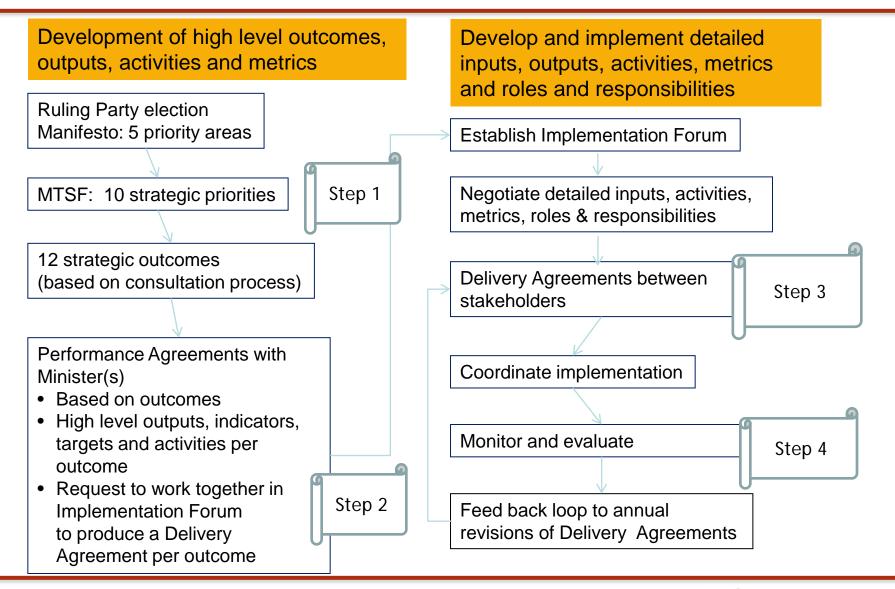
Comments

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Consultative Process – by Office of President







Education Policy & Assessment: 1994-2014

Period	Minister	Transformation focus	Key assessment related policies
1994 – 1999	S. Bengu	Development of policy and regulatory framework	1995 - South African Qualifications Authority bill 1997 - National Curriculum Statement 1998 - Assessment Policy
1999 - 2004	K. Asmal	Policy implementation; Development of systems for delivery	2000 – Report Min Review Comm Curri 2005 2002 - Revised National Curriculum Statements
2004 – 2009	N. G. Pandor	Improving of quality Understanding impact	 2005 – National protocol for Ass in schools 2007 – National policy on Ass for schools 2008 – Foundations of Learning Campaign
2009 - 2014	A. Motshekga (Minister of Basic Education)	Improvement of quality, introduction of accountability systems	2009 - Education split- Basic & Higher 2009 - Min Task Team Report Review of NCS 2010 - Action plan to 2014 - draft 2011 - Curriculum and Policy Statements 2012 - National protocol for Ass: Grades R - 12 2012 - Action plan to 2014 - Final
2014 - 2019	??	Enhance Accountability	Revised Assessment Policy – Long term National Assessment Plan Reporting Framework

Large Scale Assessment Surveys: 1994-2014

Term	Policy Focus	National Assessme	ent Surveys
1994 - 1999	frameworks & documents	1995 TIMSS 1999- MLA 1999 - TIMSS	
2000 - 2004	implementation, systems development & delivery	2001 - Grade 3 NA 2001 SACMEQ 2002 TIMSS 2002 - Grade 9 NA - HSRC 2002 - 2005 - CTA Grade 9 2004 Grade 6 NA	Provincial
2005 - 2009	Improving quality and understanding impact	2006 - PIRLS 2007 SACMEQ 2008 - FLC	Assessment Surveys
2010 - 2014	Improving quality - accountability systems	2010 - ANA 2010 TIMSS, PIRLS 2011 - ANA 2011 - SACMEQ 2012 - ANA 2013 - ANA	

Conclusion

South Africa needs to develop and strengthen collaboration with other education systems in the English-speaking world and the BRIC countries (Brazil, Russia, India and China) to ensure that students from the South African education system are equipped to be admitted into those systems.

International collaboration in education will help South Africa to successfully tackle its education challenges. Stronger educational links with these countries will also help students to become increasingly broadminded in terms of how they look at both South Africa and the wider world.

