Every child is a National Asset

Three-stream model and envisaged articulation opportunities

DHET RESEARCH COLLOQUIUM

M Schoeman schoeman.m@dbe.gov.za 13 September 2017



PRESENTATION OUTLINE

- 1. Background and introduction
- 2. Strategic Direction
- 3. Three Stream Model
- 4. Articulation opportunities
- 5. Responses to the NQF Research
- 6. Conclusion





STRATEGIC DIRECTION

"The different parts of the education system should work together allowing learners to take different pathways that offer high quality learning opportunities."

(National Planning Commission: National Development Plan, November 2011)





No Quality without Inclusion and Equity

'Inclusion and equity in and through education is the cornerstone of a transformative education agenda, and we therefore commit to addressing all forms of exclusion and marginalization, disparities and inequalities in access, participation and learning outcomes. No education target should be considered met unless met by all.

World Education Forum: Incheon Declaration 2015



BLIC OF SOUTH AFRIC



NDP TARGETS

"One of the targets set for 2014 in the delivery agreement signed by the Minister of Higher Education and Training is to produce 10 000 artisans per year. This target can be met with concerted effort and adequate funding. We propose a target of 30 000 by 2030, subject to demand."

National Planning Commission: National Development Plan, November 2011)



NATIONAL DEVELOPMENT PLAN (cont.)

- The education sector is required to play a greater role in:
 - Building an inclusive society, providing equal opportunities and helping all South Africans to realise their full potential
 - Providing inclusive education that enables everyone to participate effectively in a free society
 - Mediating the high drop-out rate of learners in the basic schooling system
 - Increasing the number of learners entering vocational and occupational pathways, training 30000 artisans per annum by 2030
 - Creating opportunities for persons with disabilities to have access to meaningful employment.





SUSTAINABLE DEVELOPMENT GOALS (SDG 4)

- The introduction of Technical Vocational Qualifications must respond to <u>Sustainable</u> <u>Development Goal 4</u>, namely to "ensure inclusive and equitable quality education and promote lifelong learning opportunities for all", and has three priority areas:
 - Fostering youth employment and entrepreneurship
 - Promoting equity and gender equality
 - Facilitating transition to green economies and sustainable societies.





International Best Practice in improving quality, equity and efficiency

- Review success strategies in countries that do well in international assessments such as PISA:
 - Excellence through equity
 - Nurturing top performance and tackling low performance
 - Extending school hours
 - Introduce and resource structured additional support at schools
 - Promote inclusion rather than referral to segregated / parallel systems
 - Strengthening teaching and learning support
 - Introduce technical vocational education





Problem Statement

- About one third of those aged 15-24, or 3.4 million people, are not formally employed nor in education or training (NEET). Two million of them have not finished Grade 12.
- The failure to integrate so many people into the labour market threatens social cohesion.
- The rate of early school leaving before Grade 12, peaking in Grade 10 and 11 (15,2% in 2012).
- Many learners from the senior phase onwards do not achieve to their full potential because of the unavailability of curriculum offerings that meet their aptitudes and interests.
- 40 000 learners currently following technical occupational subjects in so-called schools of skill and other special schools without the necessary articulation into further education pathways.
- The success rate in artisan training is relatively low and could be improved if learners already have access to vocational and occupational education at school



BLIC OF SOUTH AFRICA



'Inclusion and equity in and through education is the cornerstone of a transformative education agenda, and we therefore commit to addressing all forms of exclusion and marginalisation, disparities and inequalities in access, participation and learning outcomes. No education target should be considered met unless met by all.'

World Education Forum, Incheon Statement, 2015





RECOMMENDATIONS FROM CONSULTATIONS WITHIN THE BASIC EDUCATION SECTOR

- The DBE should undertake a costing geared at a Basic Education Sector which would be 40% Academic Stream and 60% Technical Occupational and Technical Vocational.
- There should be assurance that there is articulation from the Technical Vocational Stream in the Basic Education Sector with the curriculum offered in Technical and Vocational Education and Training (TVET) colleges; and
- The cost implications of the introduction of the Three Streams Model, as well as the readiness to have this implemented in provinces, taking the material conditions in each province into account.



Department: Basic Education REPUBLIC OF SOUTH AFRICA



Every child is a National Asset

THREE STREAM MODEL

12



THREE STREAMS

- Academic Stream
- Technical Vocational Stream

Technical Occupational Stream







PROPOSED MODEL: GCE/GCE:TO



Every child is a National Asset

ACADEMIC STREAM

15



NDP TARGETS

"The Department of Basic Education plan is to increase the number to 300 000 by 2024, with 350 000 learners passing mathematics and 320 000 learners passing physical science. The Commission proposes a target for 2030 of 450 000 learners being eligible for bachelors programme with maths and science. Action is required throughout the education system, but particularly in early childhood development given that the cohort that will enter university in **2030** has not yet started primary school. Consideration should be given to expanding the Dinaledi Schools initiative, which increases access to maths and science in **underprivileged schools**."

National Planning Commission: National Development Plan, November 2011



ACADEMIC STREAM

- **MST** strategy to increase and strengthen participation
- Rationalise schools offering the same subjects side by side
- Improve subject selection and combination
- Improve career guidance
- Improve teaching and learning support systems

17



asic education

BUIC OF SOUTH AFRIC

FOCUS SCHOOLS

- Strengthen legislative and policy frameworks
- Focus Schools Guidelines have been approved by CEM (09 March 2017). Circular soon to be released.
- Align the establishment to economic zones/ corridors/ sector

18

Read to Lea





19

Every child is a National Asset

TECHNICAL VOCATIONAL STREAM



TECHNICAL VOCATIONAL PATHWAY



20

Department: Basic Education REPUBLIC OF SOUTH AFRICA Read to Lead

Overall Learner

Participation in Technical Subjects (2008-2016)

YEARS	EGD	CIVIL	ELECTRICAL	MECHANICAL	TECHNICAL MATHS	TECHNICAL SCIENCES	TOTAL	INCREASE/ DECREASE
2008	22 821	8 733	6 403	6 910			22 046	
2009	22 670	8 478	5 338	6 442			20 258	-1778
2010	24 458	8 522	5 305	6 333			20 160	-90
2011	22 599	7 954	4 331	5 470			17 755	-2335
2012	23 812	8 597	4 725	5 484			18 806	+1051
2013	26 076	8 849	4 988	5 891			19 728	+922
2014	24 934	8 961	5 143	6 108			20 212	+484
2015	27 706	10 085	5 780	6 523			22 388	+2176
2016	48675	14 517	10 836	11 740	14 341	17 459	37 093	+14705

Please Note: The data from 2008-2015 is for Grade 12 learners The 2016 data is for Grade 10 (CAPS for Technical Schools implementation) The data increase/decrease does not include EGD numbers (comparison of specialisations only)



Department: Basic Education Republic of South Africa



22

Every child is a National Asset

TECHNICAL OCCUPATIONAL STREAM



NDP GOAL AND OBJECTIVE

"Provide inclusive education that enables everyone to participate effectively in a free society. Education provides knowledge and skills that people with disabilities can use to exercise a range of other human rights, such as the right to political participation, the right to work, the right to live independently and contribute to the community, the right to participate in cultural life, and the right raise a family. Ensuring that all children with disabilities have access to quality education will help South Africa meet its employment equity goals in the long run."

National Planning Commission: National Development Plan, November 2011)

23





Participation in the 2017 Pilot

PROVINCE	DISTRICTS	NUMBER OF	LEARNERS	TEACHERS	
		SCHOOLS OF SKILLS			
EC	Buffalo City, Nelson Mandela Bay	3	1728	131	
FS	Fezile Dabi, Lejweleputswa,	7	1979	193	
	Motheo, Thabo Mofutsanyana				
GP	14 of all 15 Districts	16	10269	1159	
KZ	Amajuba, Umgungundlovu, Umlazi	4	2212	114	
LP	Capricorn, Waterberg	4	1923	137	
MP	Gert Sibande, Nkangala	6	1732	151	
NC	Frances Baard, Namaqua	2	491	47	
NW	Bojanala, Dr K Kaunda	5	2429	80	
WC	All 8 districts*	20	7920	495	
National	40	67	30683	2507	
Source: Provincial Inclusive Education Directorates, January 2017					

* Western Cape commenced programme earlier



antment lasic Education REPUBLIC OF SOUTH AFRICA



Technical Occupational Subjects

No	Subjects	SPECIALISATION/SUBJECT SUB SECTIONS		
A. General Subjects				
1 - 4	Language HL, FAL, Functional Maths, Creative Arts, Social Sciences, Life Skills, Physical Sciences, Physical Sciences, Physical Sciences, Physical Sciences, L			
	Mathematics	Education and Sport, Natural Science, Computer Application Technology		
	Life Skills			
B. Skills and Vocational Subjects (Electives)				
5.	Agricultural Studies	Plant production, Animal husbandry ,Gardening		
6.	Art and Crafts	Craft production, Working in different Materials		
7.	Office Administration	Office Practice		
		Computer Application Technology, Client services and communication		
8.	Early Childhood Development	Child Development and Care, Resource Development (for learning)		
9. – 12.	Mechanical Technology:	Motor Mechanics,		
	Motor Mechanics	Panel Beating and / or, Spray Painting,		
	Body Works	Welding , Metalwork		
	Welding	Welding, Sheet metal work		
	Sheet Metal Work			
13.	Electrical Technology: Electrical	Electrician Work, Air conditioning and refrigeration		
14. – 16.	Civil Technology:	Bricklaying; Plastering, Brickmaking		
	- Bricklaying and Plastering	Plumbing, Solar Systems		
	- Plumbing	Carpentry, Joinery, Shuttering		
	- Woodworking and Timber			



basic education



Technical Occupational Subjects...

No	Subjects	SPECIALISATION/SUBJECT SUB SECTIONS
17 - 19.	Personal Care: - Hairdressing and Beauty Care - Beauty and Nail Technology - Ancillary Health Care	Hairdressing, Cosmetology Beauty Care, Nail Technology -Baby Care: Baby Care, First Aid, Cooking, Cleaning and Housekeeping, - Life Care: Adult/geriatric care, First Aid, Cooking, Cleaning and Housekeeping, -Personal Care: Disability Care, Technology, First Aid, Cooking, Cleaning and Housekeeping
20 - 21. 22 - 23.	Service Technology: - Upholstery - Maintenance Consumer Studies: - Food Production - Sewing	Upholstery; Leather work; Industrial sewing Plumbing; Painting; Electrical; Mechanical; Glazing; Tiling and Flooring; Bricklaying and Plastering; Welding; Woodwork Food production; Food and nutrition; Entrepreneurship; The consumer Machine sewing; Soft furnishing and upholstery; Patchwork, Quilting and Embroidery. Knitting and Crocheting: The consumer
24.	Hospitality Studies	Food and beverages services; Watering; Cleaning and Housekeeping, Client Service and communication
25.	Wholesale and Retail	Wholesale and Retail Studies
26.	Security Services	Security Services (to be completed)





REFLECTIONS ON THE STUDY IN RELATION TO DBE'S WORK AND RESPONSIBILITIES





Reflections on DBE's Work & Responsibilities from the Study

- The 'Training' in GET is not provided for in DBE and the sector therefore does not benefit from the provisions of the NQF Act
- DBE still needs to conceptualise and clearly define the Theory of Change that informs the introduction of the Three Stream Model in line with the NQF
- There is currently no co-ordination and co-operation between DBE and DHET institutions to ensure articulation and portability between programmes – hence the proposed establishment of a Task Team that will include Quality Councils and other bodies to oversee the Three Stream Model
- Currently, grade 9 learners find it difficult to articulate to TVET colleges but only those who have unsuccessfully completed the NSC







SUCCESSES AND CHALLENGES OF NQF IN THE SECTOR







NQF Successes and Challenges in the Basic Education Sector

Successes:

- The NQF did clarify the role functions of DHET and DBE through the sub-frameworks
- The fragmentation between Education and Training has been addressed to some extent





Challenges:

Vocational Education is not adequately addressed in the Basic Education sector, resulting in:

- Learners exiting with a NSC (NQF Level 4) and reentering a TVET College at NQF Level 2 to attain a vocational qualification
- Lack of alignment and articulation between the NSC and the NCV with regard technical vocational education
- Too few learners accessing and succeeding in Occupational and Trade pathways
- The fact that the Schooling Sector falls exclusively under Umalusi as a quality council is restrictive in terms of Technical Vocational and Occupational Education





RECOMMENDATIONS FOR IMPROVEMENTS TO THE NQF





Recommendations for improvements to the NQF

- In view of the need to rationalise Technical Vocational and Occupational Education and Training Qualifications across the Basic Education and Higher Education and Training sector, it would be valuable to have a less rigid delineation between the sub frameworks overseen by Umalusi and the QCTO respectively.
- Although fragmentation between education and training has been rationalised in the postschooling sector, this has not materialised in the schooling sector.



U IC OF SOUTH AFRICA



IDENTIFIED GAPS IN THE STUDY



antment



Gaps in relation to the evaluation study

- The study did not give enough attention to progression of learners from formal schooling into Vocational and Occupational Pathways
- It does not pay focused attention on the 'workplace training' requirement at GET level
- The Study could have explored a possibility of 'Technical Team' from DBE that would work with the NQF Directorate at DHET







Parity of Esteem

"For the realisation of the positive vision of what we want our vocational education system to look like, it is important to recognise that the fundamental issue is not, ultimately, how we compare academic learning on the one hand with vocational education, including apprenticeships, on the other. The real issue is about how our vocational education relates to the world of work and our current and future workforce requirements in all sectors of the economy. If we get that right, by ensuring that all vocational education is of high quality, is up-to-date with current and (expected) future industry practice, and provides the skills and workreadiness that employers are looking for, then vocational education will soon enough come to be seen as being of equal value to the academic route." (Sir Michael Wilshaw, Chief Inspector of Schools, United Kingdom, 2015)







NDP VISION STATEMENT

"We, the **people** of South Africa, have **journeyed** far since the long lines of our first **democratic** election on 27 April 1994, when we elected a government for **us** all.

We began to tell a new story then. We have lived and renewed that story along the way. Now in 2030 we live in a country which we have **remade**..."

National Planning Commission: National Development Plan, November 2011)



" IT IS IN YOUR HANDS TO **CREATE A BETTER WORLD FOR ALL** WHO LIVE IN IT." **NELSON MANDELA**

Every child is a National Asset

Thank you!

www.education.gov.za facebook: DBE SA twitter: @DBE_SA

callcentre@dbe.gov.za callcentre: 0800 202 933



