

Changing lives of ordinary people through human and social sciences

Technolog

LIFE ORIENTATION

Mathem

VTSD SKILLS DEVELOPMENT LEKGOTLA

Perspectives on Skills Development and Lessons for South Africa





Date: 6-8 September 2017



www.lmip.org.za

www.timss-sa.org.za



1. Skills planning in South Africa

- Challenge for government is to estimate the education and skills (skills strategy) required to support society and a productive and inclusive economic growth path.
- From 1994 efforts to plan for skills needs but fragmented and imperfect.
- DHET commissioned the Labour Market Intelligence Partnership (LMIP) programme for research to inform the skills planning process (initiated in 2012).
- Skills Planning: need to understand the signals for the quantity and quality of skills demanded by the economy.



2. The Current Realities

- The South African economy: low economic growth rates, leading to poor employment growth.
- Employment growth is not sufficient for the large numbers of youth coming to the labour market for the first time.
- Sectors where people work and the types of jobs are changing: absence of low-wage jobs in the manufacturing sector, structural shift towards a service economy and dependence on high-skilled financial services.
- The sector experiencing significant employment growth is the state sector and this is not sustainable.
- Educational attainment in South Africa is lower than most economically productive countries. The key constraint is the level of basic education.

The Labour Force and Skills (2014)

The Labour Force

- 15 million employed people.
- High levels of unemployment (8 mill), especially for youth (5 mill).
- 3.3 million workers in vulnerable sectors.
- The labour force growing at twice the rate as the jobs being created.

Skills Levels of the Labour Force (million)



Sectoral Contribution to GDP, 2014

Employment by sector, 2014



- The role of education and skills is given for transformation and inclusive development
 - The higher a person's qualification, the more likely they are to be employed and absorbed in the formal labour force.
- The move towards a knowledge economy places different demands on the labour force.

1. The basic education story

2. Pipeline from schools: The Post School Education and Training story

3. The Labour market outcomes story

4. Implications for skills development



Story 1: South Africa's performance in Mathematics and Science at the school level - TIMSS



Change in math achievement between 2003





Mathematics Performance by province, 2015



Change in provincial achievement 2003 to 2015



Influence of contextual dynamics on mathematics achievement

	Positive as the number of assets increases.
Home SES indicators	Positive as levels of parent education increases.
	Positive as historical resource provision increases.
School SES Indicators	Higher resourced schools outperform the no-fee paying
	schools.
Speaking the language	Positive for convergence of languages, negative for
of instruction at home	divergence.
Age	Student achievement is higher for age-grade appropriate
	students and negative for others
	The gender achievement gap is small to non-existent.
Gender	Gender differences favour girls for higher educational
	expectations, higher levels of parental engagement and
	experiencing lower levels of bullying.
School safety	Students in schools that are safer, with higher discipline tend
	to perform better.

Story 2: Post-school Education and Training (PSET) – the Higher Education story -LMIP



Progress from school to tertiary completion Key constraint is quantity and quality of competences from schooling



University & TVET Completers, 2014

	TOTAL	Business, Economic & Management Science	Science, Engineering Technology	Humanities	Services
Universities	185394	50380	55574	79749	/
Diplomas and Degrees		27%	30%	43%	
TVET Colleges	7405	3824	1628		1953
NCV 4		52%	22%		26%
TVET Colleges	24178	13886	7925		2367
NATED 6		57%	33%		10%





Progression from schools to tertiary qualifications: a helicopter view





Gender difference in university enrolments and completions, 2014



Story 3: Labour Market Outcomes



Education-Job Match: Sectors

Industry sector		1.2 million degrees	1.8 million Post-grade 12 cert & diploma
Community, social services		50	43
Financial		25	18
Manufacturing		8	10
Wholesale and Retail		6	13
Transport		4	6
Construction		3	5
Mining and quarrying		2	3
Agriculture, forestry and fishing		1	1
Electricity, gas and water supply		1	2

Sectors Engineering qualifications work?

	118 700 degrees	382 700 Post gr 12 Cert & Diploma
Financial	31	19
Manufacturing	23	18
Construction	15	13
Community, social, personal services	8	14
Transport	7	9
Wholesale and Retail	6	10
Mining and quarrying	5	9
Electricity; gas and water supply	4	5
Agriculture; forestry and fishing	0	1

DO PUBLIC ATTITUDES TO THE LABOUR MARKET MATTER?

- Personal decisions influence the success of interventions aimed at correcting labour market imbalances and mismatches.
- A deeper understanding of public perceptions regarding the labour market is key to formulating tailored employment and skills-development interventions.
- A survey with specific questions about social attitudes to the labour market was initiated.
- Examined public attitudes to work to gain a deeper understanding of work values, preferences and experiences, and work seeking behaviour.



Perceived important job attributes



- Workers indicated all work aspects as important for a decent job.
- Job security is most frequently identified as important
- Individual expectations from work are much more complex, in accordance with varied needs and preferences.



Extent to which attributes match workers expectations

Comparing what workers expect, and experience at work



The discrepancies are most extreme in relation to the reality of attaining a high income and good prospects for job promotion and advancement.



Association between education levels, and perceived work conditions



Less than matric Matric or equivalent Tertiary

• Workers with tertiary education enjoy and value their jobs more highly.



Association between education levels and extent of workplace training



- Only 59% reported workplace training.
- Workers with tertiary education were three times more likely to attend training.



Implications for skills development

- 1. Improve levels of education and skills: improved basic education, increase STEM graduates and technicians, focus on unemployed youth with less than grade 12 certificate.
- 2. Improved match between field of study and labour market destination: 50% of graduates work in the public sector. Private sector needs to look at its human resource strategy to attract skilled graduates.
- 3. Education remains an important currency in the labour market: Higher education related to better working conditions. There is a need to strengthen targeted interventions focused at vulnerable labour market participants with low education and skills levels. On-the-job training and vocational training to upgrade skills and boost overall human capital is required.

