

higher education & training

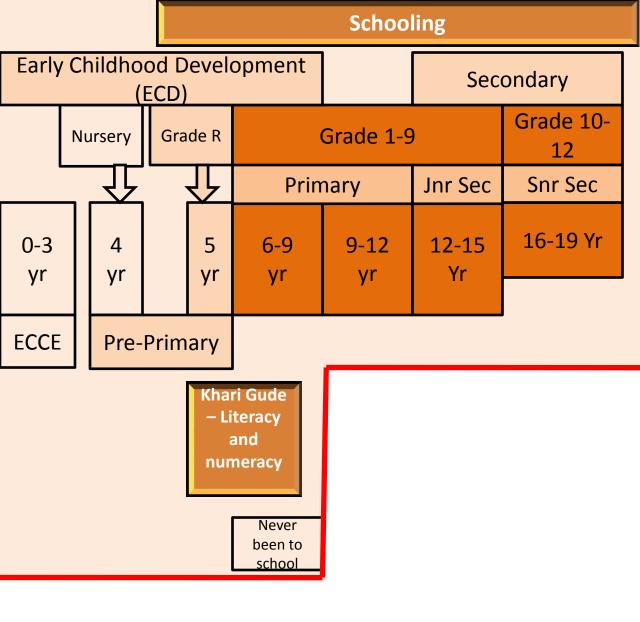
Department: Higher Education REPUBLIC OF SOUTH AFRICA

EDUCATION INFORMATION SYSTEM

African Brains Innovation Africa Summit Cape Town

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Patel.f@dhet.gov.za



About 19 million in 0-19 year age group of which about 10 million are of school going age of which about 9.6 million in school

> Compulsory school participation rate is about 98%

Senior Secondary participation rate is about 67% - 80% if with FET College participants About 1 million in 18-24 year age group In University about 18% participation rate

In 2007 2.8 million young South Africans were not in education, training or employment and growing by 500 000 per annum

Out of schooling i.e. without a grade 12 pass

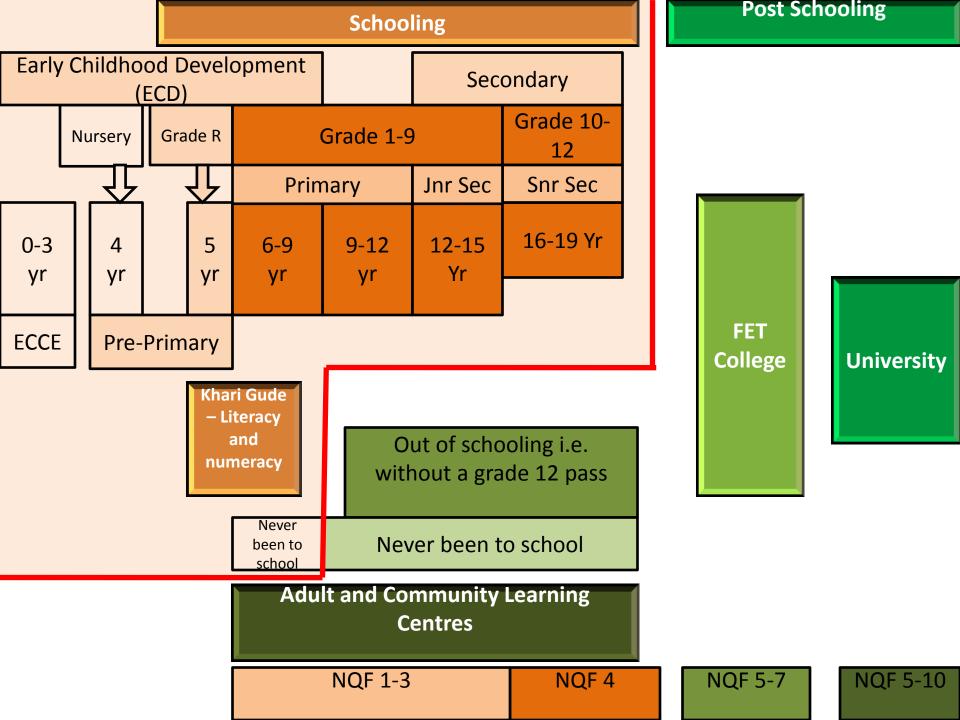
Never been to school

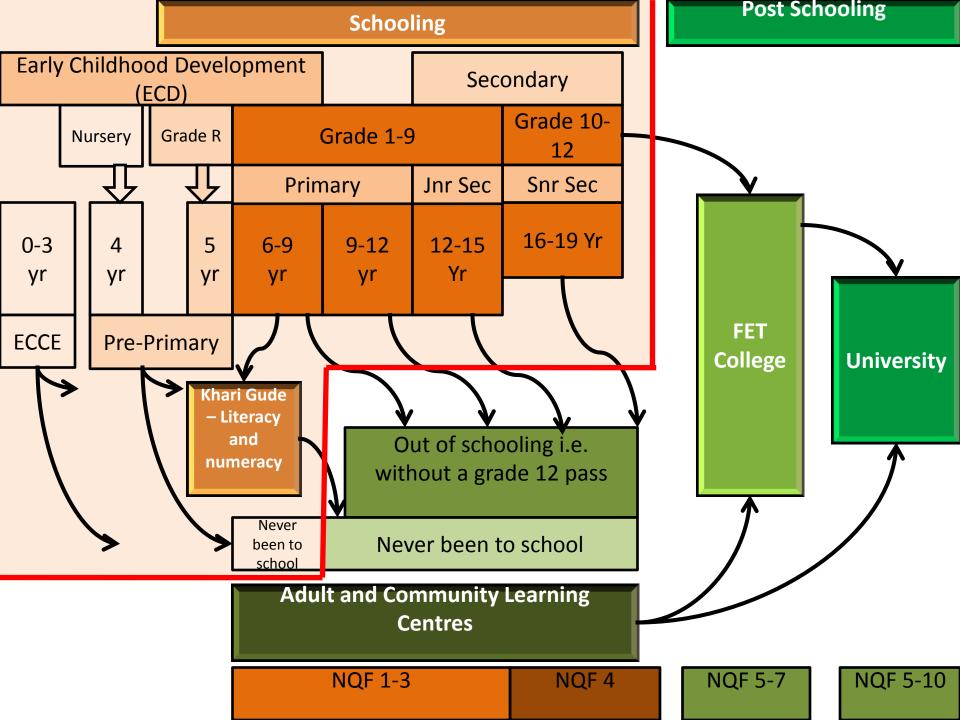
Adult and Community Learning Centres

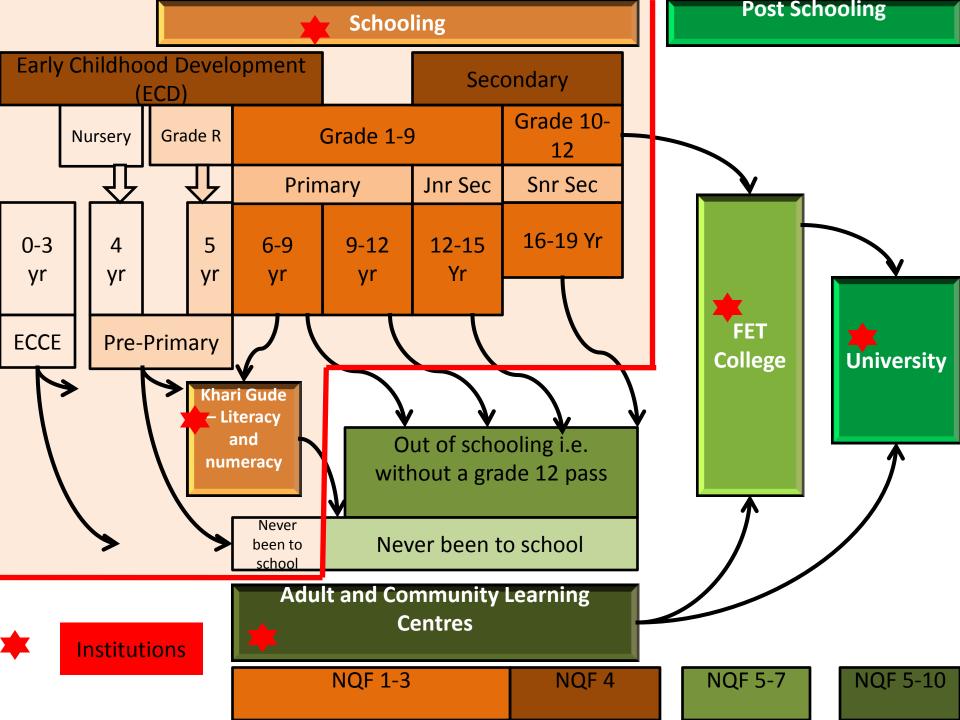
Post Schooling

FET College

University







Noting

- History of lack of equity, access and quality for Blacks.
- Post 1994 significant increased access in Schooling and University levels.
- However in the aggregate quality did not improve.
- Provisioning of Education and Training between the School and University levels did not grow sufficiently.

2007 CS: Not Employed, Not in Education Not severely disabled 18 – 24 age cohort

	18	19	20	21	22	23	24	Total
Unspecified	2,595	2,457	3,786	4,762	4,998	4,054	4,699	27,351
Primary or less	61,056	64,285	70,496	78,564	73,575	75,261	77,425	500,662
Secondary education less than Grade 10	51,192	59,643	73,194	79,050	83,367	81,502	80,649	508,597
Grade 10/Std 8 or higher but less than Grade 12	65,228	94,608	132,158	164,596	176,733	174,325	183,146	990,794
Grade 12/ NTCIII (no exemption)	47,447	65,190	89,292	99,797	100,711	96,139	100,080	598,657
Grade 12/Std 10 (with E)	10,226	13,526	14,778	14,259	16,910	13,869	14,766	98,335
Certificate with Gr 12	2,732	4,025	6,299	8,157	9,672	8,340	7,811	47,035
Diploma with Gr 12	388	1,151	2,464	3,461	6,103	5,733	5,995	25,294
Bachelors degree	188	322	430	1,774	1,460	2,831	2,347	9,352
BTech	6	126	192	312	78	654	414	1,780
Post grad diploma			244	405	400	581	867	2,498
Honours degree			60	220	383	694	337	1,695
Masters/PHD			48	77	110	135	50	420
Total	241,056	305,333	393,441	455,434	474,501	464,119	478,587	2,812,471

Post 2007 interventions

- Education and Training one of five major priorities that the 2009 government administration was mandated to effect.
- Education and Training one of 10 objectives that this administration set itself for 2009-2014.
- These in turn led to 12 Outcomes of Government and the President assigned them to respective Ministers, who had to sign a performance agreement with the President, to establish implementation and to report to Cabinet quarterly on progress

Major education changes

- In 2009 the Ministry and Department of Education split into Ministries and Departments of Basic Education and Higher Education and Training.
- Also in 2009 the training function moved from Minister Department of Labour to the Minister and Department of Higher Education and Training.
- Integration of Higher Education and Training towards a differentiated yet highly articulated quality system.

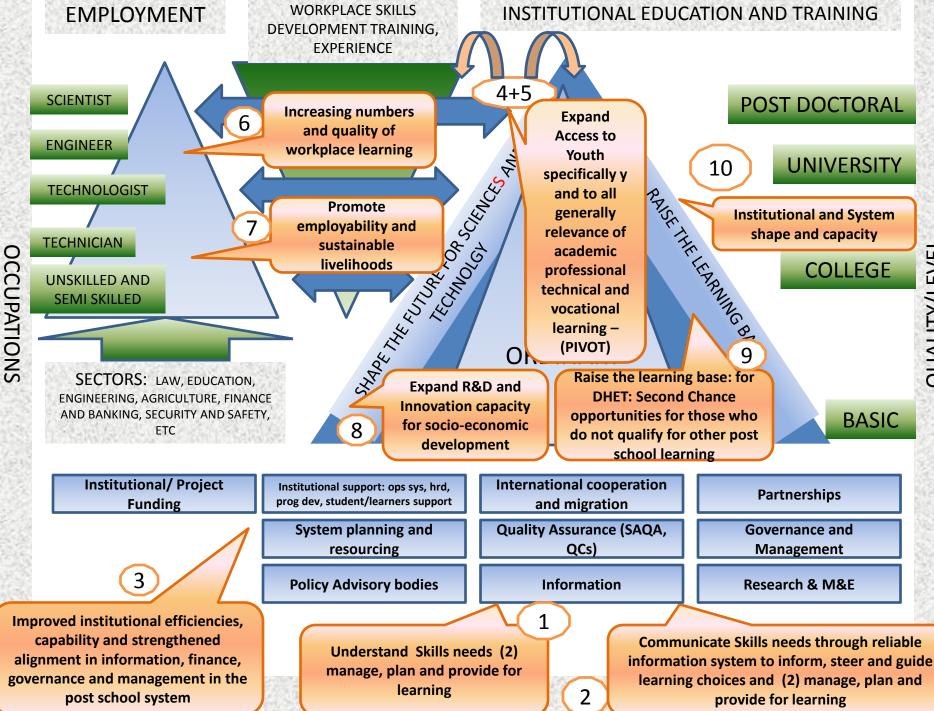
Major education changes

- Focus on increasing supply of intermediary and high level skills.
- National Development Plan proposes increase enrolment in Universities from 900 000 to 165 000 by 2030 and College from 700 000 to 2 000 000
- Education Green Paper increase enrolment in Universities to 1 500 000 and College to 4 000 000

Problem Statement

- Skill deficits and bottlenecks, especially in priority and scarce skills, contribute to the structural constraints to our growth and development path.
- A skilled and capable workforce is critical for decent work; an inclusive economy; labour absorption; rural development; the reduction of inequalities and the need for a more diversified and knowledge intensive economy

None of the other outcomes can be achieved without adequate and appropriate skills



QUALITY/LEVEL



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OUTCOME 5: ASSIGNED TO THE MINISTER OF HIGHER EDUCATION AND TRAINING A SKILLED AND CAPABLE WORKFORCE TO SUPPORT AN INCLUSIVE GROWTH PATH

Details of outcome 5

Output 5.1 of the delivery agreement for Outcome 5 requires the development of a credible mechanism for skills planning that requires 3 strategic systems:

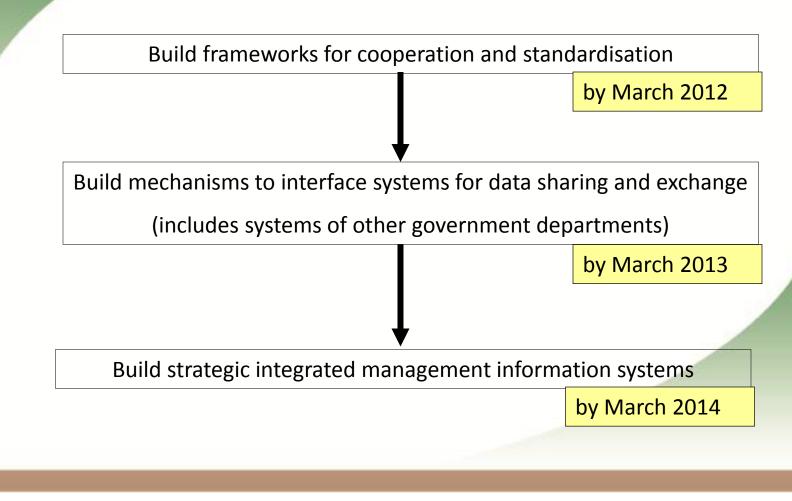
- a) The Higher Education and Training Management Information System
- b) A Labour Market Information System
- c) A Career Advice Information System

These are provided via the interfacing of the 3 strategic systems.

While each system has its own core functionality and purpose, the 3 systems will interface to provide the total solution envisaged as the mechanism for skills planning for the country.

Time frames

Although the system will be "put together" incrementally the PME timeframes are as follows:



Integrated Skills Planning Mechanism

Labour Market Information System

Career Information System

Higher Education and Training Information System

HETMIS implementation plan

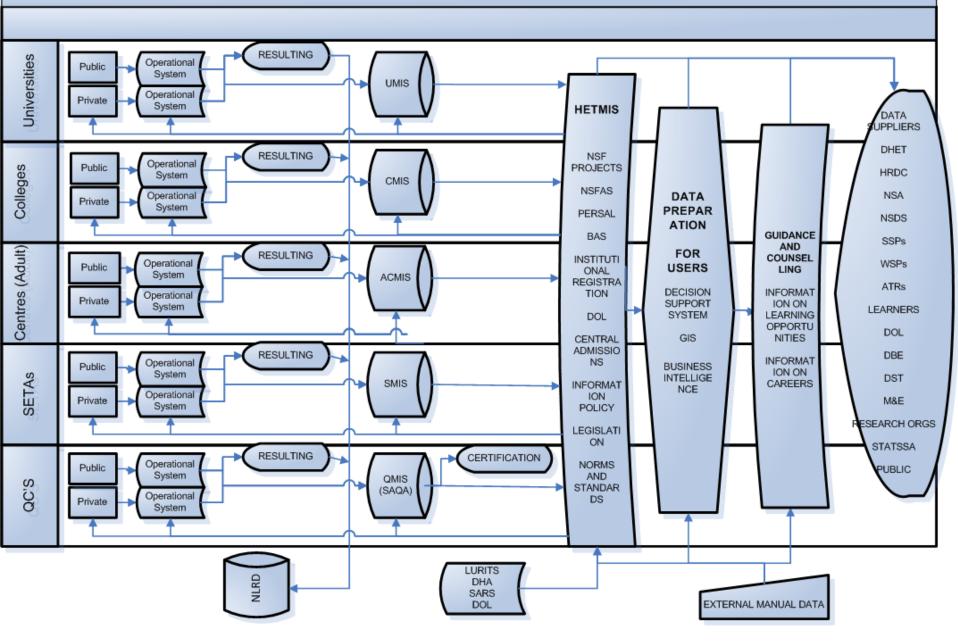
The HETMIS project has to contend with the fact that within the DHET supply side datasets, there are varying and unequal levels of data collection sophistication and methodologies and there is a lack of standards for interfacing or integrating data from the feeder systems to produce a consolidated view of the data via a single point of access.

In order to describe the DHET information landscape, the current datasets of the DHET can loosely be classified into:

- Higher Education data (Public and Private)
- Vocational Education and Training data (FET and AET, both Public and Private)
- Skills development data (enrolments in learnerships, apprenticeships, skills programmes, national skills fund projects)
- Quality Councils and Examinations qualification data housed within the NLRD and in the national examinations database.

These datasets vary in terms of data quality, data completeness, storage technologies, reporting capabilities, granularity and sophistication of the collection channel

INTEGRATED HIGHER EDUCATION AND TRAINING INFORMATION SYSTEM - HETIS



Main components and levels of the Education Management Information System

The high level system diagram on the next slide depicts the main system components that will be interfaced to form the integrated HETMIS. The MIS requires functional systems at each level of the MIS eco-system.

ENVIRONMENT SUBSYSTEMS

Systems that run at the institutions or SETAs etc

INTEGRAL INTERNAL OPERATIONAL SUBSYSTEMS

Systems that are used for operational purposes by DHET Directorates such skills development levy system

STRATEGIC REPORTING AREAS/SYSTEMS

Systems that report on a whole sector such as HEMIS

EXECUTIVE reporting Integrated HETMIS

Integrated Skills Planning Mechanism

Labour Market Information System

Career Information System

Higher Education and Training Information System

The HSRC has been engaged to lead the research for the LMI system. The research will be conducted under the following themes:

Theme 1: Labour market analysis framework, data and information systems

Theme 2: Skills forecasting: the supply and demand model

Theme 3: Sectoral analysis

Theme 4: Reconfiguring the post school sector

Theme 5: Pathways thro' education and training and into the workplace

Theme 6: Understanding changing artisanal milieus and identities

Integrated Skills Planning Mechanism

Labour Market Information System

Career Information System



Higher Education and Training Information System



OPEN LEARNING AND EDUCATION RESOURCES DRAFT CONCEPT

- Open learning and open education resources to increase access and life long learning.
- Access to materials will be free.
- Use the power of ICTs for e-learning.
- Computer managed learning and computer assisted instruction.
- Offering learner support services.
- Offering an assessment and evaluation system for recognition of learning.
- Providing qualification and non qualification programmes
- Investment in infrastructure at institutional and central level
- Best practices in the creation and provision of open materials
- Calls for huge investment in materials development and infrastructure

References

- Human Resource Development Strategy of South Africa 2009
- <u>http://www.info.gov.za/view/DownloadFileAction?id=117580</u>
- Strategic plan 2009-2014 Department of Higher Education and Training
- <u>http://www.info.gov.za/view/DownloadFileAction?id=122494</u>
- National Skills Development Strategy
- <u>http://www.info.gov.za/view/DownloadFileAction?id=163950</u>
- Green Paper on Post School Education and Training Department of Higher Education Training
- <u>http://www.info.gov.za/view/DownloadFileAction?id=157779</u>

References

- Performance Monitoring and Evaluation delivery agreement for Outcome 5
- <u>http://www.poa.gov.za/Documents/Outcome%20Delivery%20Agreemen</u> <u>ts/Outcome%205%20Skills.pdf</u>
- National Development Plan
- <u>http://www.npconline.co.za/MediaLib/Downloads/Downloads/Executive</u> <u>%20Summary-NDP%202030%20-%20Our%20future%20-</u> <u>%20make%20it%20work.pdf</u>
- National Skills Accord
- <u>http://www.dhet.gov.za/LinkClick.aspx?fileticket=%2b6uwXt0SDek%3d&</u> <u>tabid=93&mid=501</u>



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THANK YOU