



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

Progress Report:

Operation Phakisa

ICT in Education

Quarter 2 Report 2018





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A. Introduction

The Government of South Africa adopted the Big Fast Results (BFR) problem-solving methodology, which was originally developed and implemented by the government of Malaysia. The BFR results-driven approach was adapted to the South African context. To highlight the urgency of delivery, the approach was renamed to Operation Phakisa ("phakisa" meaning "hurry up" in Sesotho).

The Main Operation Phakisa Lab process which defined the ICT initiatives for the Department of Basic Education (DBE), ran from 7 September – 2 October 2015 and was conducted in partnership with the Government Technical Advisory Centre (GTAC). Five work streams were identified by the Operation Phakisa lab process:

- **Connectivity;**
- **Devices;**
- **Teacher Professional Development;**
- **Digital Content Development and Distribution; and**
- **e-Administration**



B. Progress in Quarter 2, 2018/19 — Processes and Oversight

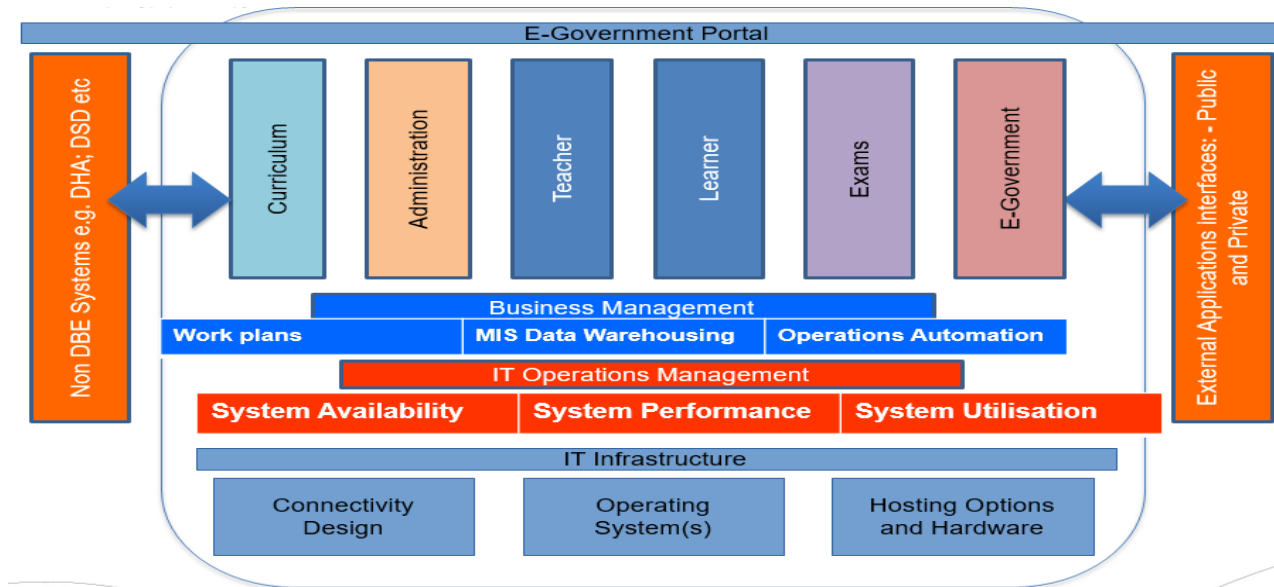
The DBE and the Provincial Education Departments (PEDs) have achieved the following milestone deliverables.



1. Project Management Unit

- 1.1. At the last report, the Project Management Unit (PMU) had provided Project Management training at **four** workshops at the Department of Basic Education (DBE) in partnership with GTAC. Thus far, **38** officials have been trained. These officials have been supplied with a copy of Open Source project management software as an interim measure and a costing exercise has been taken on a server version of Microsoft Project, so that a project management protocol can be implemented.
- 1.2. **In the interim the DBE has engaged GTAC again and has received an indication that GTAC would be interested in providing further support, pending funding.**
- 1.3. **DBE revised the GTAC templates to better meet DBE's needs and has provided them to GTAC for comment. GTAC has provided comment on the draft DBE Project Management course notes. DBE plans to train further officials during this quarter in project management.**
- 1.4. DBE is experimenting with Cloud synchronisation and Document Collaboration services so as to streamline report writing functions. The solution seems to be usable, however, DBE intends to experiment with Microsoft Sharepoint as a final possibility before determining which solution to use.
- 1.5. **DBE is modernizing its process through digitisation of the Department's workflow processes** and the mapping and streamlining of business processes in line with the Department of Public Service Administration's Operations Management Framework (OMF). **This decision was taken to further accelerate the delivery and project management of Operation Phakisa. Decision-making processes that are usually delayed by paper signature of submissions, will be mediated through a digital submissions system that the DBE is currently piloting.**
- 1.6. **The digital submissions system has been approved for procurement processes and is due to be considered at Bid Adjudication Committee on 26 September 2018.**
- 1.7. **NECT has indicated interest in providing funding for the PMU to resource it and support the envisaged role of Chief Information Officer as envisaged by the Strategy.**

2. ICT Strategy



- 2.1. At the last report, it was indicated that the DBE has engaged the services of the National Education Collaboration Trust (NECT) to produce an ICT Strategy for the Education Sector. There are two reasons for this; firstly, that the DBE has determined that Operation Phakisa needs greater coherence across the Sector, and, secondly, that the Big Fast Results (BFR) methodology calls for a Strategy. It was noted that of the 8 BFR steps, the first step, drafting a Strategy, was done only superficially in the past. This project therefore addresses that gap. It is intended that the ICT Strategy will guide PEDs to deliver a more coherent rollout across the nation.
- 2.2. The NECT has **completed the document** in collaboration with the DBE and final inputs from Provincial Education Departments (PEDs), as well as Department of Public Service Administration (DPSA), and Department of Telecommunications and Postal Services (DTPS), both of which have mandate for ICTs in government. The final document was presented at the ICT Advisory Committee of 7 September 2018.
- 2.3. Once the Director-General has approved the document, it will be presented at Senior Management (SMM), Heads of Education Departments Committee (HEDCOM), and then Council of Education Ministers (CEM), before publishing.



3. Committees

There are a number of ICT committees which were formed following the Operation Phakisa Lab, whose purpose is to track progress and make recommendations, at various levels; Provincial, internal to the DBE, external to the DBE, and at ministerial level.

3.1. *Operation Phakisa Steering Committee*

3.2. **Composition:** Ministers of DBE, Department of Planning, Monitoring and Evaluation in the Presidency (DPME), Department of Telecommunications and Postal Services (DTPS), Department of Science and Technology (DST), Department of Communications (DoC), Department of Higher Education and Training (DHET), and Department of Social Development (DSD).

3.3. **Purpose:** to provide political oversight on delivery issues such as blockages to the Operation Phakisa implementation process.

3.4. **Most recent meeting:** 22 August 2017.

3.5. **Most recent recommendations:**

- a. *Recommendation:* Government should utilise all existing connectivity solutions.
- b. *Recommendation:* There is a need to find an alternative to the Universal Service and Access Obligation (USAO, Government Gazette 37718) because it is not sustainable in the long-term (it has a two year limit).
- c. *Recommendation:* e-Rating and Zero-rating must be investigated further.
- d. *Recommendation:* There may be a case to revisit the USAO legislation and telecommunications' contributions to increase its deployment in the short term.

Progress: ICASA meeting held on 5 April 2018. See subsequent section on Connectivity for outputs of meeting. TVWS is being investigated.

3.6. *Deputy Ministers Subcommittee on ICT*

3.7. This committee is called ad-hoc.

3.8. **Composition:** Deputy Ministers of DBE, DPME, DTPS, DST, DoC, DHET, DSD.

3.9. **Purpose:** to provide political oversight on delivery issues such as blockages to the Operation Phakisa implementation process.

3.10. **Most recent meeting:** This committee last met on 25 October 2017.

3.11. **Most recent recommendations:**

- a. *Recommendation:* DBE should share the database of connected schools in SA.
Progress: The database has been shared with DTPS.
Recommendation: ICASA and DoC to meet to discuss USAO, Zero-rating, e-Rating.
Progress: ICASA meeting held on 5 April 2018. See subsequent section on Connectivity for outputs of meeting. TVWS is being investigated.
- b. *Recommendation:* DTPS should map out timelines for SA Connect Phase 1.
Progress: DTPS has been defunded. Please see section on connectivity.

3.12. Interdepartmental ICT in Education Committee / Interdepartmental Committee of Chief Directors

3.13. **Composition:** This committee consists of Chief Directors from sister departments (DBE, DPME, DTPS, DST, DoC, DHET, and DPSA).

3.14. **Purpose:** to inform the Operation Phakisa steering committee (Ministers, above) and Deputy Ministers (above) of blockages and advice regarding mitigations.

3.15. **Most recent meeting:** 23 April 2018

3.16. Most recent recommendations:

- a. *Recommendation:* e-Rate and Zero-rate is the responsibility of ICASA and the DoC.
- b. *Recommendation:* Broad Band Infraco (BBI) is in the process of engaging all service providers to provide connectivity.
Progress: DTPS has been defunded. Please see section on connectivity.
- c. *Recommendation:* Noted that the USAO has no sustainability model beyond two years and therefore a sustainability model is required.
- d. *Recommendation:* Cost involved in setting up Channel at SABC.
Progress: Initial Meeting scheduled with DoC 25 May 2018; next meeting due at DoC's discretion.
- e. *Recommendation:* DBE needs to acquire an accurate database of schools' connectivity.
Progress: The National Education Collaboration Trust has provided some data, however, the cost of surveying all schools independently of the EMIS/NEIMS surveys is not financially feasible. Connectivity records are surveyed and maintained by NEIMS.
- f. *Recommendation:* The committee should identify further opportunities for funding, and connectivity models.
Progress: A costed model is being developed by DBE based on inputs from the sector.
Recommendation: The wording in Section 88 of the Electronic Communications Act (2005), as well as in Section 73.6, is not strong enough to enforce the USAO, and should be revised.
Progress: DTPS identified the matter and will action through ICASA. In most of the above cases, ICASA has been consulted. ICASA meeting held on 5 April 2018. See subsequent section on Connectivity for outputs of meeting. TVWS is being investigated.
- g. *Recommendation:* ICT Education research chair.
- h. *Progress:* Develop detailed budget and costed plan, DG to DG meeting between DBE and DST and identify funding source.
- i. *Recommendation:* Engage with HEIs, DHET, SACE, and SAQA to identify the desired course content and appoint a working group to develop course content with HEIs. The DBE to possibly identify a funding source.
- j. *Recommendation:* Speeds is the responsibility of ICASA and the DTPS and the speed prescribed by USAO Gazette No 37718) speed (1Mbps) and Number of EUDs (26) do not address Educational needs. Operation Phakisa has proposed the review of the Gazette, in the meantime, to align the speed (bandwidth) to SA connect but increase it augment the number of End-user devices.
- k. **This committee is shortly due to sit again to discuss the matter of pooling funds to provide national broadband.**

3.17. **ICT Advisory Committee (ICT AC)**

3.18. **Composition:** This committee comprises industry experts, DDGs, chief directors of directorates running ICT initiatives, and as of this year, Provincial representatives.

3.19. **Purpose:** The purpose of the committee is to advise the Minister and the DBE ICT Steering Committee (see below) on ICT matters.

3.20. **Most recent meeting:** The committee meets quarterly. The most recent meeting was on 7 September 2018.

3.21. **Most recent recommendations:**

- a. Final Strategy document to be circulated. Incorporate discussion of 21st Century skills.
- b. ODG to report back on PMO at next ICTAC
- c. Provinces (PEDs): DBE to engage WCED on solutions for common issues. Need to have common discussions of initiatives in PEDs e.g. at HEDCOM ICT to avoid duplication. PEDs to present lessons learnt at next ICT AC. HEDCOM ICT committee should review TOR to include e-Exams and EMIS.
- d. Progress on ICASA (zero rating question) to be reported at next ICTAC
- e. Create survey on the ICTAC's value.
- f. All to send nominations to Chair or DG
- g. **Future meeting dates:** 2 November after the HEDCOM ICT (see below).

3.22. **ICT Interprovincial Meeting / HEDCOM Sub-Committee on ICT**

3.23. At the last report, the recommendation had been made for the escalation of the powers of this committee. This proposal has since been taken to HEDCOM and approved.

3.24. **Composition:** This committee comprises members of Provincial Education Departments' (PEDs) ICT implementing directorates, such as PEDs EMIS, PEDs e-Learning directorates, PEDs GITO.

3.25. **Purpose:** Its purpose is to advise Heads of Education Departments (HEDCOM) of blockages and challenges in the e-Learning sector.

3.26. **Most recent meeting:** The committee meets quarterly. The last meeting was held on 12 and 13 July 2018 as the first formal sitting as HEDCOM ICT.

3.27. **Most recent recommendations:**

- a. *Recommendation:* The committee received the ICT Strategy again and advised consultation with the State IT Agency (SITA) on capacity to support the strategy.
Progress: SITA has been engaged on 5 February, 20 February, 6 March, and 19 March 2018
- b. *Recommendation:* Free State province noted that they are also drafting a strategy and wish to align it.
Progress: When the draft ICT Strategy is available it will be shared with PEDs including Free State.
- c. *Recommendation:* The National Strategy for Learner Attainment (NSLA) reporting architecture was discussed again and two templates presented for PEDs to use for reporting on Operation Phakisa. It was requested that one template be used. **Subsequent internal discussions at the DBE ICT Steering Committee (below) have identified a need to seriously reconsider the matters of the reporting schedule to DPME and the reporting**

schedule for NSLA, as well as the details and contents of the two reports, as they do not align and cause delays and insufficient detail being captured.

d. Future meeting dates: 1 November, just before the ICT AC meeting date.

3.28. DBE ICT Steering Committee

3.29. Composition: This is an internal committee comprising chief directors, DDGs, and directors of directorates running ICT initiatives.

3.30. Purpose: Its purpose is to make decisions regarding Operation Phakisa internally, for the DBE.

3.31. Most recent meeting: The committee meets monthly and reports to the ICT Advisory Committee (above) and the Operation Phakisa Steering Committee (above). Most of the members also sit on the ICT Strategy Working Group.

3.32. Most recent recommendations:

- a. Recommendation:** That the internal DBE ITC committee which determined hardware and software standards for business processes, should be revised. It became defunct a few years ago. Its purpose is to ensure that the solutions provided by GITO meet the needs of officials at DBE.
- b. Recommendation:** That PEDs which are reluctant to report should be engaged in a personal manner rather than given letters.
- c. Recommendation:** That business process mapping must complete soon and outstanding directorates identified.
- d. Noted** that e-Examinations directorate will follow the GTAC Project Management protocol.
- e. Noted** that Deputy Minister is seeking funding for connectivity.
- f. Noted** that Deputy Minister requested a list of good and bad points about SITA to raise with them.



4. Monitoring and Oversight Visits

Operation Phakisa, as a presidential initiative, is closely monitored by the DPME. To ensure that Operation Phakisa initiatives are implemented and produces the desired impact, DBE conducts provincial visits to track deployment of ICTs and to monitor and support implementation. **27 visits were planned (3 schools per province) for the current financial year and to date 18 schools were monitored.** The table below provides information on the monitoring visits completed for Quarter 1 and 2.

No	Province	Date	Quarter
1.	Free-State	24 - 25 May	Quarter 1
2.	Limpopo	11 - 12 June	
3.	Northern Cape	21 - 22 June	
4.	Gauteng	14 - 15 August	Quarter 2
5.	Mpumalanga	28 – 29 August	
6.	KwaZulu Natal	27-28 September	



C. Progress in Quarter 2 2018/19 — Operation Phakisa Deliverables



1. Connectivity

The DBE has identified a need to perform an accurate survey of connectivity and to reconcile records received from DTPS and ICASA on the rollout to USAO, so as to ensure consistent reports. In particular, DBE has determined that a number of schools which had slower connectivity, such as ADSL, have been upgraded to USAO (3G/4G) whilst still retaining ADSL and other technologies. The DBE therefore now states the number of schools connected as an estimate, standing at around 64%.

The DBE has drawn up a business case to connect large numbers of schools to broadband which has been presented at a number of forums in order to garner funding.

1.1 Summary of Connectivity Statistics

- **Current USAO figure: 4412** (Last report: 4366). The actual figure is higher; confirmed by ICASA.
- **MTN have** completed the implementation of their Special Needs pilot school in Limpopo province, whilst Vodacom is procuring the equipment for their pilot school.
- Current baseline figure in NEIMS: 11 191 (mostly ADSL).
- **8,4% (2076 schools) have broadband connectivity:**
 - Western Cape: **1278** (Latest ICT Interprovincial meeting report)
 - Gauteng: **243** (Source: PEDs NSLA report, July 2017)
 - Eastern Cape: **537** USAASA
 - Northern Cape: **10** USAASA
 - North West: **8** USAASA
- Best estimate of percentage connected so far: 64-69%

Progress with ICASA

- DBE identified challenges with connectivity excluding SA Connect as originating within the purview of ICASA
- ICASA has responded by proposing that the funding model for USAO be revised to include a removal of the project end (the telecommunications companies will be required to support the project for the duration of their license)
- ICASA requested DBE to write to ICASA identifying the success levels of the USAO project and its challenges so as to support the changes to the legislation via an amendment to the Gazette.
- **The Minister of DBE wrote to the DoC and the DTPS to support the requests made to ICASA at a meeting on 5 April. The letters ask the DoC and DTPS to write to ICASA with the same requests.**

Connectivity Masts (Towers) on school premises

The DBE signed a MOA with Thabure (LTD) for the construction of Cellular Towers on school property. The agreement outlines the different roles and responsibilities regarding the use of school property in line of connectivity benefits for the school. To date the following provinces were identified to participate in the initiative;

- Northern Cape Province;
- Limpopo Province;
- Mpumalanga Province; and
- North West Province.

ICASA USAO Report March 2018 (Latest available)

The table below provides an update on the schools that participated in the implementation of the USAO initiative.

PROVINCIAL BREAKDOWN SEPTEMBER 2018						
NO	PROVINCE	Mobile Operators				
		Vodacom	MTN	Cell C	Liquid Telecoms	Total
		1500	1500	1500	750	5250
1	EASTERN CAPE	365	204	201		770
2	FREE STATE	236	166	21		423
3	GAUTENG		72	53		125
4	KWAZULU NATAL	305	358	218	186	1067
5	LIMPOPO	50	205	260		515
6	MPUMALANGA	107	43	189		339
7	NORTHERN CAPE	240	141	76		457
8	NORTH WEST	116	70	86		272
9	WESTERN CAPE	62	101	96	185	444
TOTAL		1481	1360	1200	371	4412

USAO Special Need schools

The DBE in consultation with DTPS, ICASA and all relevant inclusive education stakeholders developed the following documentation for the implementation of the USAO Special Needs school initiative:

- ICT Guidelines for Schools;
- Special Needs School Assessment form; and
- Process Map

All mobile operators were provided with a pilot Special Needs school to implement the USAO solution. The table below provided an overview on the allocation and the progress made with the different pilots

No	Mobile Operators	Province	Schools	Progress
1	MTN	Limpopo	Helen Franz for Physical disability	Completed
2	Cell C	Mpumalanga	Silindokuhle – Sid/Deaf and Blinds (Multi Disabled) Mpumalanga	School meeting scheduled
3	Vodacom	Eastern Cape	St Thomas School for the Deaf Stutterheim	Procurement done
4	Neotel/Liquid Telecoms	Free State	Bartimea school for the Deaf and Blind	No progress

USAO monitoring in North West Province

ICASA/DBE/DTPS and provinces are in the final stages of the implementation of the USAO initiative. Based on concerns raised by the Portfolio Committee the DBE/ DTPS/ ICASA and NWED agreed to collectively conduct USAO monitoring and evaluation (in the North West province) to determine the usage of the solution in the participating schools. To date a total of 36 schools were monitored and a comprehensive report will be made available based on the finding of the monitoring and evaluation exercise.



2. Devices

The 4412 schools provided with the USAO solution includes, a mobile trolley with devices (24 tablets for learners, 2 laptops for teachers, 2 printers, and 1 projector, 1 server and wireless access point). Other hardware initiatives are as follows:

PRIORITY AREA	ACTIVITY	PROGRESS
HP Schools of the Future pilot project	Deploy hardware solution	<ul style="list-style-type: none"> HP completed the technology and ICT infrastructure installation of the HP School in KwaZulu Natal. The training programme was implemented and consisted of the following ICT training: <ul style="list-style-type: none"> Basic computer literacy; Technical support; Change management; and Subject Integration of different technologies
E-Libraries project	Deliver e-Libraries to schools	<ul style="list-style-type: none"> 152 e-Libraries deployed in last year LP, NW, NC have their equipment 131 in NW, LP, NC out of 100 schools.
USAO delivery to schools for learners with special needs	Deploy hardware to four PoC schools	<ul style="list-style-type: none"> The DBE revised the guidelines for schools ICT hardware in 2016-2017 The consultation phase was completed and the draft documentation distributed. The documentation includes the following: <ul style="list-style-type: none"> Guidelines for Special Needs Schools; School assessment tool; and Processes Map All Operators were provided with a pilot school. To date MTN have completed the pilot school.



3. Teacher Professional Development

Teacher Training in ICT integration is one of the core components of the Operation Phakisa delivery model. This section details the teacher training in ICT integration performed thus far.

The provincial breakdown of ICT teacher professional development includes the following levels: *Basic - Entry level; Intermediate – (Adoption, Adaptation and Appropriation Level); and Advanced – Innovation Level.*

3.1 The following table reflects the progress to date (totals). Bold font shows new training figures.

PROVINCIAL EDUCATION DEPARTMENTS	2016	2017	2018 YTD	Grand Total
Eastern Cape	4413	4189	2334	10936
Free State	9040	0	0	9040
Gauteng	1723	0	150	1873
Kwa-Zulu Natal	1942	259	150	2351
Limpopo	1000	600	0	1600
Mpumalanga	18637	5846	0	24483
Northern Cape	4038	526	0	4564
North West	1938	374	558	2870
Western Cape	38564	5439	1261	45264
Total	81295	17233	4453	102981

- **Detailed per-PEDs quarterly breakdowns are available at the end of the document in the section on PEDs.** The data source in this quarter is the NSLA. Evidence is supplied to DBE through the NSLA process.
- **An online learning system for teacher ICT integration in pedagogy has been placed online and is currently in use by over 600 teachers and subject specialists.**

3.2 Professional Development Framework for Digital Learning

Over the course of the past year in partnership with UNICEF, DBE developed a Professional Development Framework for Digital Learning, based on the Technological Pedagogical and Content Knowledge (TPACK) learning model. A guide and a web-based application to support the teachers' Professional Development in ICTs was developed. **This model has formally been published and is available at:**

<https://www.schoolnet.org.za/wp-content/uploads/PROFESSIONAL-DEVELOPMENT-FRAMEWORK-FOR-DIGITAL-LEARNING-FINAL-1.pdf>



4. Digital Content Development and Distribution

Naturally, in order to ensure that education is taking place, content has to be delivered via the provided digital technologies. The DBE has achieved the following milestones in digital content provision:

PRIORITY AREA	ACTIVITY	PROGRESS
Digital Content	Development Digital Content (e-Textbooks)	<ul style="list-style-type: none"> • CAT and IT: The development and digitization of CAT and IT Grades 10-12 textbooks state-owned textbooks funded by MTN Foundation will be completed by December 2018. • Life Sciences for Grade 11 and 12 Follow-up meetings between DBE, IDC and Nelson Mandela University on the development of Gr.11-12 Life Sciences have been held. The Industrial Development Corporation (IDC) has committed funds to the development of Grade 11-12 Life Sciences textbooks. The Govern Mbeki Mathematics Development Centre of Nelson Mandel University was contracted by the IDC to manage the development and digitisation of Life Sciences textbooks, after their project proposal was approved by both IDC and DBVE. The Nelson Mandela University has committed to finish the textbooks by December 2018. • Mathematics Literacy Grades 11-12 The Industrial Development Corporation (IDC) has been in communication with Tirisano, for them to fund the development of Grades 11-12 Mathematics Literacy. At the meeting held between DBE and IDC on 13 September 2018, they reported that the Tirisano Board of Directors have not yet approved the funding for the project. However, they have promised to pursue the matter with them at the meeting planned for 4 October 2018. • Life Orientation Grades 10-12 A follow-up meeting between DBE and LegalWise on the development of Grades 10-12 Life Orientation textbooks as their preferred subject was held on 4 September 2018. LegalWise had shown

		<p>interest on the development of the subject. The Subject Specialist for the subject formed part of the meeting. On discussions she reported that Life Orientation within DBE with another service provider but it is only on term 1. LegalWise indicated that they are not willing to join the already developed textbooks. DBE is to have an internal meeting on this.</p> <ul style="list-style-type: none"> • Business Studies and Economics Grades 10-12 Follow-ups have been made with The Banking Association on the development of Business Studies and Economics including EMS textbooks. No financial commitment has been made yet.
DBE Cloud	Deploy DBE Cloud online LMS	<ul style="list-style-type: none"> • The 3 Apps are available on the Google Play Store Apps Store and IOS deployed and demonstrated to Vodacom. Three apps: Teacher, Learner, 2nd Chance; mobile platforms and web. • Offline solution (DBE Cloud which can be installed on offline servers), is available and about to deploy in 100 schools in the NC through the USAO initiative • The migration of the DBE cloud is in progress



5. e-Administration

This initiative deals with capturing data from schools.

PRIORITY AREA	ACTIVITY	PROGRESS
E-Administration (EMIS)	Web-enabled SA SAMS	<ul style="list-style-type: none"> SA-SAMS tender has been published Bidder Briefing held (Week of 25 May) Extension applied for, for more time for industry to respond - 3 weeks to 5 weeks is allowed Procurement plan is in place Project Management team went to WCED, KZN and ECDOE and met senior management and EMIS technical staff and principals in that project management plan with a view to piloting in those provinces Modernised SA-SAMS dialog held on the 20th June 2018 where engagements between role players took place.
	Advocacy/usage of Data Driven District Dashboard	<ul style="list-style-type: none"> Seven provinces onboard (no change).



6. e-Examinations

This initiative deals with providing national assessments and public examinations, as well as school-based assessments, both formative and summative, digitally.

PRIORITY AREA	ACTIVITY	PROGRESS
E-Exams	TARMI-3 Teacher Assessment Resource & Monitoring Instrument	<ul style="list-style-type: none"> The TARMI 3 is being developed by DBE utilising donor funding. System functionality: Item development, review, banking, Test development, eMarking. Will be Piloted in two provinces in 2018. System being enhanced for full scale usage across the sector
	Item banking system	<ul style="list-style-type: none"> The bids for the Item banking system have been evaluated and are subject to final approval. Item Banking system will allow a larger pool of educators to develop test items and test items will be reviewed and pre-tested before being banked. Will modernise the setting of Summative Examinations.
	E-Marking System	<ul style="list-style-type: none"> The TORs for E-Marking have been prepared and will be tabled for DG approval to go out on tender. E-Marking is intended to decentralise the Marking of examinations using a web-based technology. Allows for instant item analysis of marked Items.
	Business Intelligence system	<ul style="list-style-type: none"> TABLEAU Business Intelligence is in the process of being procured by the DBE. The software package is intended to improve the quality control, analysis and reporting on Examination and Assessment. System has been piloted during the 2017 examination process. Ongoing Development

	Online Registration System(SC)	<ul style="list-style-type: none"> DBE has piloted the electronic registration of Senior Certificate candidates in four provinces in 2017. Based on the pilot, the registration module will be extended to all provinces for the SC Examinations 2018. If the SC 2018 registration is successful, then the system will also be developed for the NSC examinations in 2019 Errors experienced are being addressed.
	Online Marking (SC)	<ul style="list-style-type: none"> DBE has piloted the electronic registration of re-mark/re-check candidates in the 2017 Senior Certificate examination in six provinces. Was used for the NSC 2017 Remark/Recheck Errors experienced are being addressed.
	Online Reissue(SC)	<ul style="list-style-type: none"> The electronic request for the re-issue of certificates is in an advanced stage of development. Some testing has already been done. This system will be ready for implementation in 2018.
	Review of the IECS System	<ul style="list-style-type: none"> A Redesign Task team is being established to advise and oversee the redesign of the Integrated Examination Computer System (IECS). Submission has been prepared for DG approval.



7. e-Governance

E-Governance deals with how ICTs are managed at head office of DBE. The e-Governance initiatives determine the availability of core services such as the DBE website, cloud solutions, and business process solutions which ensure rollout of services to schools.

PRIORITY AREA	ACTIVITY	PROGRESS
E-Governance	VPN	<ul style="list-style-type: none"> SITA Proposal for the VPN Refresh as a Managed Service accepted and processed Implementation and Migration started during April 2018 and is currently in progress according to the Project Plan
	Data centre refresh	<ul style="list-style-type: none"> DBE LAN Data Centre refresh completed. Workstations migrated to Office 365. Exchange migration from 2013 completed and further update to 2016 in progress.
	Migration to cloud	<ul style="list-style-type: none"> SITA Proposal for the DBE Secure Application Data centre Hosting migration to SITA Government Private Cloud accepted, implemented and completed. DBE VPN extended into the cloud and migration of Applications completed. 17 incident calls are outstanding resolution by SITA on LURITS I, before the system decommissioning at end of July 2018. UPLOADS For 2018 Academic Data to DBE are now taking place on LURITS II 9.1 million learners uploaded: The target of 100% by 30 June 2018, for preliminary Submissions to National Treasury for 2019-2020 Equitable Share and final submission due on 30 August 2018 LURITS 2 will contain Performance Information (Marks) Gr 1-12 for all subjects, this will include Online Masterlist of Schools. Integration Automation with DHA (HANIS) is active and finalizing finer details for DSD (SOCPEN) Automation

	Switching environment	The refreshment of the IPT (VOIP) and Switching infrastructure of the DBE LAN through SITA has been implemented during April 2018 and is currently in progress according to the Project Plan part proposal accepted and processed. Implementation to start when Switching RFQ is awarded and firm proposal accepted and processed due to dependencies
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PRIORITY AREA	ACTIVITY	PROGRESS
Business Processes	Boxfusion pilot	<ul style="list-style-type: none"> • Rollout of project costs received and discussed on Wednesday 27 June 2018. • Submission to purchase on route. • Solution will streamline and automate submissions, parliamentary questions, and DG memos
	Business Processes TOR	<ul style="list-style-type: none"> • Business process model to be revised including identification of further SDIPs • Branches being engaged • Process maps to be streamlined to increase efficiency
	Project management	<ul style="list-style-type: none"> • Further courses being designed for presentation • Templates to be revised/streamlined • Software has been provided, professional software is being compared and evaluated. • Solution rollout will involve further training • Intended for integration in Business processes, specifically SCM and project monitoring and evaluation, as well as to identify blockages and accelerate delivery of OP.

	ICT Strategy	<ul style="list-style-type: none"> • Document produced, revisions received from ICTAC • Nominations requested for membership of rollout implementation planning group • Workshop planned to determine focus of strategy and projects to projectise formally • Output will be short list of projects to be funded as focal OP initiatives, e.g. national connectivity.
	PEDs reporting	<ul style="list-style-type: none"> • New NSLA Section 9 (ICT) template presented at TDCM • Template presented to HEDCOM Subcommittee on Finance • Template presented to ICT interprovincial meeting • Revised template to be circulated and matter of reporting synchronisation to be revised.

D. Progress in Quarter 2 2018/19 — Provincial Education Departments



The PEDs have started to report their plans and progress in to the DBE. PEDs' progress is given in tabular form on the pages that follow, in alphabetic order.

Progress reports, included in the report above, have been garnered from Oversight Visits carried out by DBE personnel, as well as from the ICT Interprovincial Meeting (Working Group) sessions, Teacher Development and Curriculum Monitoring (TDCM), and the NSLA reports.

The reports are given in tabular form on the pages that follow.

