

GO DIGITAL

SOUTH AFRICA



**KUTFUTSELA
EKUSAKATENI
NGEKWEDIJITHALI
(BDM)
A – Z**



the doc

Department:
Communications
REPUBLIC OF SOUTH AFRICA



Litiko Letekuchumana (i-DoC) libhale incwajana letsi *GO DIGITAL South Africa* kute lifundzise bantfu, latise libuye futsi lente bantfu bati ngalokutfutsela ekusakateni ngekwedijithali

1. SENDLALELO

I-*GO DIGITAL South Africa* ngumshawana loyinhloko wenchubo yekutfutsela ekusakateni ngekwedijithali eNingizimu Afrika. Ithekeknoloji ye-TV beyiloku ikhona eNingizimu Afrika kusukela nga-1976. I-TV yacala ikhombisa tiffombe letinembali lomhlophe nalomnyama, kwatfutuka kwaya etiffombeni letinemibala. Inchubo yelubandlululo yenta kutsi kukhonakale kutsi bantfu labamhlophe babe nema-TV lamanengi kwendlula tonkhe letinye tinhlanga eNingizimu Afrika. Ngemuva kwa-1994, lelive letfula imitsetfo leyacinisekisa tinsita tekusakata letimelela bonkhe bantfu baseNingizimu Afrika, ngekunganaki buhlanga babo noma simo sabo setemnotfo.

Lamuhla, emakhaya latigidzi leti-13 eNingizimu Afrika anema-TV futsi abukela tinhlelo letisakatwa ngetilwimi tawo. Hulumente uyachubeka nekucinisekisa tinsita letifananako nekufinyelela lwatiso ngekuniketa tinsita tekusakata ngekusebentisa lenchubo yamanje yekutfutsela ekusakateni ngekwedijithali letsembisa kwenta kancono kwehlukahlukana nekufinyelela lwatiso ikakhulu kwebantfu baseNingizimu Afrika labebanchshwe ematfuba phambilini. Hulumente utawulekelela emakhaya laphuyile latigidzi letisihlanu lanema-TV ngema-*Set Top Box* (ema-STB) amahlala.

2. KUYINI KUTFUTSELA EKUSAKATENI NGEKWEDIJITHALI?

Ngembi kwa-1990, kusakatwa kwemsindvo nevidiyo ngemagagasi emoya bekweniwa ngetinkhomba te-analogi. Nanoma nje lenchubo beyisebenta kahle kakhulu, beyisebentisa indzawo etiteshini. Kokubili i-TV nemsakato wemoya kunikwa umkhakha lobubalulekile. Loku kusho kutsi tinsita te-TV nemsakato wemoya ngamunye kwabelwa titeshi letehlukile naletingakavami. Lena yindlela lengetisi titeshi yekwetfula tinsita temashaneli lamanyenti.

2.1 I-analogi

Ngaphambi konyaka we-1990, ukusakaza ngokudlulisa umsindo nezithombe ezihambayo ngomoya ngesizwambiko se-analogi. Lendlela yayisebenza kahle, okubi yayithatha indawo eningi endaweni yesiteshi. Kokubili umabonakude nomsakazo kunikezwe indawo ewusizo kakhulu. Lokhu kusho umehluko nokungafani kweziteshi esinikezwe ngamunye umsakazo nomabonakude. Okusobala, indlela eyanele yokuletha izinsizakusebenza ezineziteshi eziningi.

2.1.1 Sibonelo samanje:

Emashaneli ako kokubili i-TV nemsakato wemoya kunikwa titeshi ngekuya kwekuma kwenzawo.

- Sibonelo, *i-Metro FM* siteshi semsakato wavelonkhe. EGauteng itfolakala ku-*FM 92.4mhz* kepha eDurban, Cape Town, noma neyiphi lenye indzawo kulelive, sona lesa siteshi semsakato lesifananako sitfolakala esiteshini lesehlukile. Ngalokuphelele loku kusho kutsi kunekumoshwa kwemkhakha wetiteshi.
- Ishaneli ye-TV ngayinye inikwa siteshi lesehlukile indzawo ngayinye. Ngako-ke, kulabanye, kusho kufinyelela lokunemkhawulo nekungatfoli emashaneli eTV lamanyenti.
- Ikhwalithi yetiffombe te-TV iya ngekuma kwe-eriyeli kanye nebubanti lobusemkhatsini we-TV nesichumanisimagagasi sendzawo.
- Indlela yekwendlulisa inkhomba ye-analogi, umuntfu angaba nemsakato wemoya munye noma insita ye-TV yinye ngekuya kwesiteshi lesiniketive. Kokubili kusakata kwe-TV ngekwe-analogi kanye nekusakata ngekwedijithali kusebentisa imikhakha yeyesiteshi *i-Ultra High Frequency* (i-UHF) noma *i-Very High Frequency* (i-VHF).

2.2 Idijithali

Kusakata ngekwedijithali kucale ngemuva kwa-1990, lapho khona umsindvo, ividiyo, umbhalo netitfombe letimile tingandluliswa ngekwetino mbolo letimbili k.k. ngabokunye nabonothi. Lethekinoloji ledijithali ivumela lwatiso kutsi lucindzetalwe, ngaleyo ndlela-ke kongeka indzawo yemsakato wemoya.

I-DTT yi-TV yeSathelayithi yeDijithali, kepha isebentisa tendlulisi letidijithali letisemhlabeni kutsi tisabalalise tinkhomba ekhaya lakho.

Kwendlulisa tinkhomba letidigthali kutawuzuzisa wonkhe umunfufu.

- Siteshi ngasinye lesehlukile ku-analogi kute kutsi sendlulise 1 x TV manje sesingendlulisa ngedijithali ngetulu kwe-15 letinsita te-TV letisezingeni.
- Idigithali isebentisa emagagasi emasindvo ngalokwenele. Endzaweni yinye, tonkhe tendlulisi te-TV tingasebenta esiteshini lesifananako ngaphandle kwekuphatamiseka. Ngemuva sekucishwe i-analogi, emagagasi ekusakata lamanyenti atawukhululwa abuyele emuva kuNhlango YeTetekuchuma Letimele YaseNingizimu Afrika (i-ICASA). Lamagagasi ekusakata atawunikwa tinkampani tabomakhalekhikhini kute tente kancono tinsita tato letitnika ummango.
- Takhamuti titawudzinga i-STB kutsi intjinje inkhomba ye-analogi ibe yedijithali yema-TV abo kute bakwati kutfola tintfombe te-TV leyidijithali letentiwe taba ncono. Akudzingeki i-TV lensha.

Tinhlelo te-TV tisabalaliswa ngekwendluliswa emhlabeni, ngesathelayithi nange-tintsambo (emakhebuli). ENingizimu Afrika kwamanje sisebentisa isathelayithi ledijithali futsi masinyane sitawusebentisa idijithali yasemhlabeni. Kwetfulwa kwetintsambo manje sekuhamba nge-Internet Protocol (IP TV-internet) kepha loku kunemkhawulo ngesizatfu seubanti bemkhakha netihibe.

2.2.1 Inchazelo ye-TV yasemhlabeni neyathelayithi

- Kusakata kwe-TV yesathelayithi kusebentisa isathelayithi, lokungumjikelete ngetulu emhlabeni. Tinkhomba tekusakata tiffunyelwa kusathelayithi, bese kukhanyisa lenkhomba ibuyele emuva emhlabeni, bese kutsi babukeli batfola lenkhomba ngendishi yesathelayithi. Loluhlobo lwensita lubitwa ngekutsi Kucondza Ngco Ekhaya (i-DTH).
- I-TV yasemhlabeni isebentisa inethiwekhi yemibhoshongo yekwendlulisa (kusakata) leseemhlabeni yekuyisa inkhomba kulo lonkhe lelive. Umbhoshongo ngamunye wekwendlulisa ubukana nendzawo yinye, futsi ngulenethiwekhi yekubukana nendzawo yinye leniketa tinkhomba te-TV kulo lonkhe lelive. Nangabe usendzaweni lefinyelelwa ngulombhoshongo wekwendlulisa utawukwenta kutsi ukwati kutfola tinsita tekusakata kulenzawo.

3. TINZUZO TE-DTT:

- 3.1 Inchubo ye-DTT yetsembisa emashaneli lamanengi (nekusakata ngetilwimi temdzabu) kanye netinhlelo letinyenti njengetemidlalo, temfundvo, temphilo, tebantwana, tephalamende, tekuti jabulisa, temculo, njll.
- 3.2 Kufinyelela onkhe emashaneli lasakatwa mahhala lanetitfombe letiyikhalithi nemsindvo lotse kukaca kakhulu kwato tonkhe takhamuti ngekunganaki indzawo labahlala kuyo, buhlanga noma simo sabo setemnofu.

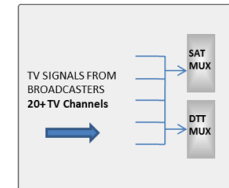


- 3.3 Inkhombandlela Yeluhlelo Lwe-elekhtroniki kusikhrini lolukhombisa tihloko.
- 3.4 Tihlelo letilwawulwako naleticashelwa batali.
- 3.5 Tinsita talabakhubatekile labangeva etindlebeni nalabangaboni emehlweni (tiumusho letichazako nemibhalo letinhlavu letinkhulu).

4. NGAPHASI NGUMDVWEBO LOLULA, LOCHAZA KUTFUTSELA EKUSAKATENI NGEKWEDIJITHALI

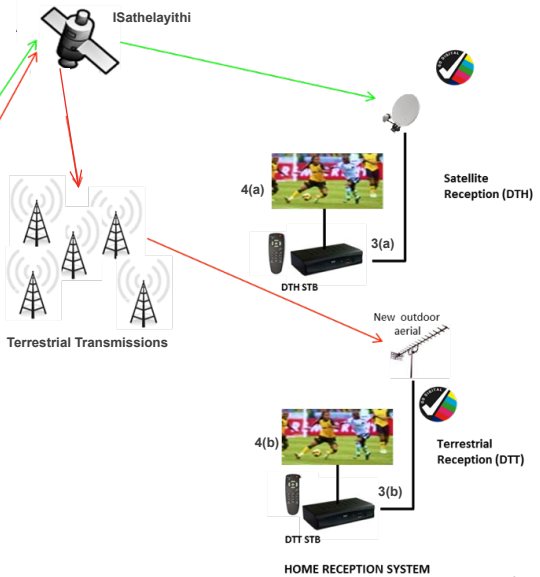
- 1. Sikhungo sekusakata ngulapho tihlelo tikhicitwa khona, ngekewe-analogi noma ngekwedijithali.
- 2. Tikhomba tiffunyelwa tisuka kutisetjentsiswa tekusakata tiye kunethiwekhi yesendlulisi se-SENTECH eveni lonkhe.
- 3. (a) ema-STB e-DTH (b) newa-DTT: idekhoda noma siguculi lesenta i-TV ye-analogi itfole inkhomba yekusakata ngekwedijithali.
- 4. (a) na (b) Umele ema-TV ku-DTT naku-DTH lokutawuveta tiffombe letiyikhwalthi lecacile, emashaneli lamanengi longakhetsa kuwo naletinye tinsita letinhle kakhulu.

1. Sikhungo Sekusakata



Inethiwekhi Yesendlulisi se-Sentech

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5. KUTFOLA KUSAKATA KWE-DTT

Babukeli batawufanela kutsi batfole ema-STB kute batfole babuye bahumshu tinkhomba tekukhombisa ku-TV. Labanye babukeli kungenta kutsi badzinge ema-eriyeli lamasha ema-TV noma balungise lawa labanawo kwemukele kute akhone kwemukela. Ema-STB afanele kutsi atsengwe noma atfolwe ngesibonelelo sahumumende

6. KUFakwa KWE-STB:

I-STB sisetjentiswa lesifakwa sibuye sidlalwe, lesichunywa kalula kusetjentiswa imanywali. Lusito lwebafaki lutawufunwa nangabe kunesidzingo. Liposi LaseNingizimu Afrika (i-SAPO) litawusita mayelana naloku. Lenchubo itawuphindze futsi yakhe imisebenti.

7. SIKHATSI LEKUCATJWANGWA KUTSI KUTAWUCALWA NGASO KUSEBENTISA I-DTT

Kucala kusetjentiswa kwenethiwekhi yedijithali ngummango kutawucala nga-2015. Kuvivinywa nekulingwa kwalethekinoloji, tinsita netakhiwonchati sekuvele kuyentiwa manje.

8. LABATSINTSEKAKO BEKUTFUTSELA EKUSAKATENI NGEKWEDIJITHALI NETINDZIMA LABATIDLALAKO



- I-SENTECH inesibopho sekubukana nenethiwekhi yekusakata ngekwedijithali yalive (emhlabeni kanye nangesathelayithi), ngekuhambisana neNchubomgomo Yekutfutsela Ekusakateni NgekeDijithali.
- Lenethiwekhi itawulwela kucinisekisa kutsi onkhe emakhaya kulelive ayayitfolo i-TV ledijithali.
- NgeNdlwana 2015, kwavulwa tindzawo leti-171 etindlulisi te-DTT leti-178 kute kukhuliswe samba selinani lebanfufu labayitfolako libe nge-83,65% bese kutsi linani lesamba sendzawo liba nge-54,52%. E-Gauteng, Freyistata, Limpopo, Mpumalanga, eNyakatfo Nshonalanga naKwaZulu-Natal sekuphetsiwe futsi kukhanyisiwe.



- Umsebenti weNsita Lefanako ne-Ejensi Yekufinyelela yaseNingizimu Afrika (i-USAASA) kuchuba nekugcina imisebenti lefanako nekufinyelela lwatiso nethekinoloji yekuchumana. Inesibopho sekukhokhela ema-STB eselekelelo emakhaya langaba tigidzi letisihlanu lanema-TV latsatfwa ngekutsi ayadzanga kantsi futsi ayafaneleka.



- I-ICASA inesibopho sekulawula imikhakha yekuchumana ngetincingo nekusakata.
- Ekugcineni itawuba nesibopho sekuhlela titeshi nekwaba kanye nekukhipha emalaysense etinsita tedijithali.
- Kute letinye tinsita tedijithali letinsha letitawetfulwa ngaphandle kwelaysense noma imvume ye-ICASA.



- Tindzima letitawudlalwa yi-SABC ne-eTV kulenchubo yekutfutsela ekusakateni ngekwedijithali kuchuba kusungulwa kwetinsita letinsha, kutfutsa tinsita letikhona (i-SABC1, 2, 3 ne-eTV) tifakwe enkhundleni yedijithali nekudlala indzima kutemfundvo nemikhankhaso yekwatisa ummango.



- I-M-Net kwanyalo isebentisa tinsita te-TV yasemhlabeni letikhokhelwako isebentisa ithekinoloji ye-analogi. Njengesakati we-analogi, i-M-Net itawuhlangana nalabanye basakati be-analogi, i-SABC ne-eTV kucinisekisa kutsi iNingizimu Afrika ipheta lenchubo yekutfutsa ngempumelelo.



- Njengobe loku kudzinga inetiwekhi yekusabalalisa lenkhulu, i-DoC, SABC ne-USAASA kutawusebentisa inethiwekhi ye-SAPO yekusabalalisa ku-inthanethi.
- I-SAPO itawuchuba kukhokhelwa kwema-STB, kukhishwa kwema-STB iphindze futsi ikhokhele nalabo labatawufaka ma-STB.
- I-SAPO itawuphindze futsi icinisekise kutsi emalayisense e-TV e-SABC ebafakiticelo angiwo futsi anemininingwane yamanje nekutsi futsi ayahlangabetana nesidzingo sekufaneleka.

9. KUNGANI KUBALULEKILE KUTSI LELIVE LITFUTSELE EKUSAKATENI NGEKWEDIJITHALI?

iNingizimu Afrika ayisingilo kuphela live lelitfutsela kunchubo yekusakata ngekwedijithali. Nga-2006 Inyonyane Yetekuchumana Ngelucingo Yemhlaba yabamba inkhofa lapho kwavunyelwana kutsi onkhe emave aseYurophu, Afrika, Middle East ne-Islamic Republic yase-Iran (sigodzi se-1) afanele kutsi atfutse ekusakateni ngekwe-analogi atfutsele ekusakateni ngekwedigithali ngeNhlaba 2015. Ngekuya kwekusayinwa kwesivumelwane, iNingizimu Afrika isebentela kutfutsela ekusakateni ngekwedijithali emakhaya latigidzi leti-13 lanema-TV.

10. LWATISO

Ucelwa kutsi uhlale ugadze lwatiso lolwengetiwe lwe-DTT njengeshejuli yetindzawo letifinyelelwa yinethiwekhi yedijithali indzawo ngayinye noma sifundza nekufaneleka kanye nenchubo yekusabalalisa ema-STB, lokutawentiwa kutsi kutfolakale ngesikhatsi lesifanele.

Mayelana nelwatiso lolubanti ucelwa kutsi utsintse:

LIHHOVISI LETEKUCHUMANA: LIHHOVISI LEMKLAMO WEKUTFUTSELA
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