

EMACINISO LALISHUMI NGETILIMO LETAKHIWE NGEUCWEPHESHA BESAYENSI LEBITWA NGEKUTSI YI-BIOTECHNOLOGY NGEMUNYAKA WA 2013

LICINISO # 1: Sekuphele iminyaka lelishumi nesiphohlango (18) solo kwacala kulinywa kwetilimo letakhiwe ngebuchwephesha besayensi lebitwa ngekutsi yi biotechnology.

Kusukela nga 1996 nati cala kulinywa letilimo umkhicito wato bewukhula ngelizinga lelikhulu umnyaka ngemnyaka. Loku kukhombisa kutsi balimi labaningi emhlabeni wonkhe, emaveni lasatfufuka nalawa lastfufukile bayalwetsemba loluhlobo lwetilimo. Kuyamangalisa kutsi kusukela naticala kulinywa letilimo nga 1996 kuya ku 2013, bukhulu bendzawo letilinywe kuyo seyikhule yaba ngema hectare langu 1.5 billion, lobukhulu lobu buyengca bukhulu lobulinganiswa nebelive le Shayina noma le Melika.

LICINISO # 2: Kusukela nga 1996 nakucala kulinywa kwaletilimo te biotech kuya ku 2013 lizinga lekulinywa kwato likhule kakhulu ngalokungetulu kulokuphindvwe kalikhulu .

Nakucala kwakulinywe 1.7 million wema hectare, kodvwa nga 2013 kwase kulinywe ngetulu kwa 175 million wema hectare. Lelizinga lekukhula lelingaka likhombisa kutsi tilimo letitsakwe ngebuchwephesha besayensi ngiyona ndlela letendlula tonkhe tindlela tekulima. Kwentiwa yini loku? Kwentiwa kutsi buhle bato buyabonakala. Kulomnyaka wa 2013 indzawo lelinywe ngaletilimo ikhule ngaloku tsatfu ekhulwini (3%) lokungalinganiswa na ma hectare latigidzi letinhlano (5 million ha). Nasibuka phambili , kubhekekile kutsi kucale kuncipha lokukhula kwelizinga lekutilima letilimo ngoba vele seyicishe ilinywe yonkhe indzawo yaletilimo letisembili taloluhlobo.

LICINISO # 3: Inombolo yemave lalima tilimo letakhiwe ngebuciko besayensi naletifakwe tinsotja incumbi.

Emnyakeni wa 2013 emave labelime tilimo letakhiwe ngebuchwepheshe besayensi bekangemashumi lamabili nesikhombisa (27). Liningi lalamve bekungemave lasatfufuka ngoba wona abelishumi nemfica (19), kantsi lawo latfufukile wona abe siphohlango (8). Letinye taletilimo tifakwa yinye insotja kantsi letinye tifakwa timbili, noma tintsatfu noma tine tinsotja njalonzalo. Loku kwentelwa kutsi lesilimo sikhona kumelela letinengi timo letifana netilokatana, noma tifo, lukhula nalokunye lokuhlasela tilimo. Kulomnyaka wa 2013 lokungemashumi nesikhombisa ekhulwini (27%) bekuutilimo letinetinsotja letendlulako kuyinye, takha ema hectare latigidzi letingemashumi lamane nesikhombisa (47.1 million ha).

LICINISO # 4: Emave lasatfufuka alima lemikhulu imihhalo yaletilimo letakhiwe ngebuchwepeshe besayensi kunalawo latfufukile.

Loku kucale ngemyaka wa 2012 futsi kuchubekile nanga 2013. Nga 2013 emave lasatfufuka alima indzawo lengemshumi lasihlanu namane ekhulwini (54%) lokwenta tigidzi letingemashumi layimfica namane ema hectare (94 million ha), kantsi lawo latfufukile wona alima indzawo lengemashumi lamane nesitfupha ekhulwini (46%) lokwenta ema hectare latigidzi letisiphohlongo nasinye (81 million ha). Emave lamanengi abakhile buhlobo emkhatsini kwahulumende ne mabhizinisi kulomkhankhaso. Lamanye alamave afaka ekhatsi, live lase Brazil, Bangladesh nase Indonesia.

LICINISO # 5: Tinombolo tebalimi labalima letilimo letakhiwe ngebuchwepesha besayensi

Tinombolo tebalimi labalima letilimo letakhiwe ngebuchwepesha besayensi tiyakhula umnyaka ngemnyaka. Ngemnyaka wa 2013, balimi labatigidzi letilishumi nesiphohlongo (18 million) bebatilimile letinhlobo tetilimo, tikhule ngetigidzi letiyincenye lesikhomisa (0.7 million) nga 2012. Linengi lalabalimi labangetulu kwalokungemashumi layimfica ekhulwini (90%) bekubalimi labancane labasemaveni lasatfufuka kantsi futsi bete kahle netimali tekulima. Labalimi laba bebendlula tigidzi letilishumi nesitfupha nencenye yesihlanu (16.5 million). Balimi umdalo wabo nje bayayibalekela intfo lebafaka engotini. Ngalendlela le yekulima balimi bakhulisa sivuno endzaweni lencane, hhayi kusikhulisa ngekulima endzaweni lenkhulu. Loko kusita kunciphisa kulinyatwa kwemvelo nekuphephisa emahlatsi. Ngemnyaka wa 2013 balimi labancane labatigidzi letisikhombisa nencenye lesihlanu (7.5 million) eveni lase Shayina nalaba tigidzi letisikhombisa nencenye lesitsatfu (7.3 million) base Ndiya balima tigidzi letilishumi nesihlanu tema hectare akotini lotsakwe ngalobuchwepeshe besayensi. Loku bakwenta ngoba babona inzuzo yekulima loluhlobo lwakotini. Eveni lase Phillippines khona, balimi labatinkhulungwane letingemakhulu lamane bebalime ummbila lowakhiwe ngayo lendlela.

LICINISO # 6: Emave lasihlanu lahamba embili ekulimeni tilimo letakhiwe ngebuchwepesha besayensi.

Live lemelika lichubekile ngekuhamba phambili ekulinyweni kwaloluhlobo lwetilimo ngalokungemashumi layimfica ekhulwini kuto tonkhe tilimo (90%), ilime tigidzi letingemashumi lasikhombisa nencenye yinye tema hectare (70.1 million hectares). Imelika iqhophe umlandvo ngekulima umbila lomela somiso kuletilimo letakhiwe ngebuchwepesha besayensi, balimi labatinkhulungwane letimbili bawulimile lombila endzaweni lengema hectare latinkhulungwane letingemashumi lasihlanu (50,000 Ha).

Live le Brazil libe lesibili ekulinyweni kwaletilimo, futsi ke yona i brazil ngiyo lekhula kwendlula okhe emave, sekuze kuyiminyaka lesihlanu ihamba phambili ngekukhula kwenzawo lelinywe ngaletilimo. Kusukela nga 2012 ikhule ngema hectare latigidzi

letintsatfu nencenye lesikhombisa (3.7 million ha), lokulishumi ekhulwini (10%), nyalo ema hectare lalinywe yi brazil atigidzi letingemashumi lamane nencenye yesitsatfu temahectare. Lelive le brazil futsi libe lekucala kulima emabhontjisi lanetinsotja letimbili te HT/IR endzaweni letigidzi letimbili nencenye yesibili temahectare. Iphindze futsi yatiphehlela luhlobo lwe mabhontjisi lolumelela tifo, selulungiselwe kulinywa nje.

I Argentina yona iyesitsatfu kulamave nekulima tigidzi letingemashumi lamabili nane kanye nencenye yesine tema hectare.

Live le Ndiya lona selikhule lengca live lase Canada latsatsa indzawo yesine ngekulima kotini endzaweni lengema hectare latigidzi letilishumi nanye. Nayo I ndiya iyakhula ngelizinga lelisetulu, lelinganiswa kuloku ngemashumi layimfica nesihlanu ekhulwini (95%).

I Canada ibe ngeyesihlanu kulamave ngekulima ema hectare la tigidzi letilishumi nencenye lesiphohlango (10.8). Noma kulinywa kwe canola kulelive kwehlile, liyachubeka kodvwa kuhkula ngelizinga lelingemashumi laymfica nesitfupha ekhulwini (96%). Ngemnyaka wa 2013 onkhe lamave lasihlanu alime ngetulu kwem hectare latigidzi letilishumi lilinye, lokukhombisa inchubekela phambili.

LICINISO # 7: Simo setilimo letakhiwe ngebuchwephesha besayensi e Africa.

Livekati le Africa lichubekile kulomkhankhaso wekulima letilimo, liholwa live leningizimu neAfrica lekuphele iminyaka lelishumi litilima letilimo. Emnyakeni wa 2013 live le Burkina Faso likhule ngalokungemashumi lasihlanu ekhulwini (50%) kantsi lase Sudan lona likhule nkalokungemakhulu Imatsatfu ekhulwini (300%). Emaveni lasikhombisa e Africa bekusachubeka kucwaningwa kwaletilimo, lekuba sigaba sekugcina ngaphambi kwekutsi tisale tivunyelwa kulinywa letilimo. Lamave bo Cameroon, Egypt, Ghana, Kenya, Malawi, Nigeria nase Uganda. Ngemnyaka wa 2017 kubhekekile kutsi kube sekunembila lomelela lilanga lapha e Africa lolutawukhishwa luhlelo lwaka WEMA. Lokwenta lomsebenti uhambe kancane lapha e Africa kweswelakala kwetinhlelo letiphilako tekuchuba lomsebenti. Letinhlelo tiyadzingeka kakhulu kuze kusitakale labancane emaveni lasatfutfuka.

LICINISO # 8: Simo setilimo letakhiwe ngebuchwephesha besayensi e Europe.

Emave lasihlanu e Europe atilimile letilimo, lamave si Spain, Portugal, Czech republic, Slovakia ne Romania. Asahlangene lamave alime ema hectare lalikhulu nemashumi lamane nesiphohlango nelishumi nakutsatfu (148,013) lokukhombisa kukhuphuka ngalokulishumi nesiphohlango enkhulwini (18%) nekukhula ngalokungemashumi lamatsatfu nakunye ekhulwini.

LICINISO # 9: Buhle betilimo letakhiwe ngebuchwephesha besayensi.

Kuleminyaka letacala ngayo letilimo kulinywa, nga 1996 kuya ku 2012, tilifakile lichaza ekwandziseni kudla, kulima lokuphephile, nangekonga imvelo. Loku sikubona ngekutsi tilimo letikudla tikhulile tefika etigidzigidzini te Dola asemelika letilikhulu nelishumi nesitfupha nencenye leliymfica (US\$116.9 billion), konga imvelo ngekunciphisa imitsi lekufutfwa ngayo tilokatane letitigidzi letingemakhulu lamane nemashumi layimfica nesikhombisa tema kilogremu (497 million kg); Emnyakeni wa 2012 kunciphe umoya lomubi nge tigidzigidzi letingemashumi lamabili nesitfupha nencenye yesikhombisa tema khilogremu (26.7 billion kg), lokungalinganiswa nekususwa emgwacweni kwetimoto letitigidzi letilishumi nanye nencenye yesikhombisa ngemnyaka; kongiwa kwemvelo ngekunciphisa umhlaba lokulinywe kuwo lotigidzi letilikhulu nemashumi lamabili nakutsatfu tema hectare (123 million Ha); kunciphisa buphuya kubalimi labancane nemindeni yabo labedulako etigidzini letilishumi nesitfupha nencenye yesihlanu (16.5 million) nemindeni yabo leyendulako etigidzini letingemashumi lasitfupha nesihlanu (65 million). Tilimo letakhiwe ngebuchwephesha besayensi tilusito kahkulu, kodvwa phela kuhle sati kutsi ngiyo yodvwa indlela yekulima. Kumcoka kutsi balimi bachubeke balimi ngetindlela letinconyiwe letisentjetiswako noma kulinywa letilimo lesitetaye, njengekutsi kungalinywa luhlobo lunye lwesilimo endzaweni yinye yonkhe iminyaka.

LICINISO # 10: Nasisuka lapha sibhekaphi.

Kubheke kutsi kulinywa kwaletilimo kukhule kancane kusukela manje ngoba vele etindzaweni letinengi loluhlelo lwemukeleke ngalokungaba ngemashumi layimfica ekhulwini (90%). Lokukhula kutawengetwa ngemave ase Bangladesh, Indonesia ne Panama latawucala kulima nga 2014.