

ENDEBERERA ENUNGI Y'EBITOOKYE

Ebitookye Ebikusinga Habw'obugeiga N'amagara Marungi



Enkozesa y'ekipande ekikukwata aha mpinga y'ebitookye

Ekipande eki kikakorwa kuyambaho abahingisa, abahingi abakizire aharibagyenzi baabo, hamwe n'abarikuyambaho kushomesa ebyobuhingi omubyaro kushomesa abahingi ahampinga nungi y'ebitookye. Ekipande kiine ebishushani aha rupapura orukubanza kandi aha rupapura orwakabiri kiine obutumwa oburikukwata ahabishushani ebiri aharupapura orukubanza

Wanoyetebekanisa kushomesa abahingi, kikabaire kirungi kubanza kwetegyereza ebyorikuza kushomesa kuruga ahakipande eki hamwe nokutebekanisa ebintu byoona ebyorikuza kukozeza omumushomo. Omushomo gushemereire kukorwa aharutookye oruri haihi.

Aha buri rupapura oruriho ebishushani, abahingi bashemereire kutekateka ahabirikworekwa omubishushani kandi bakashoborora ekibakyenga n'ebibatwire nibakora omuntookye zaabo. Obwo omushomesa ashemereire kuha abahingi omugisha bakaganiira ningashi bakagamba ahabibayega arikuhamisiriza ebyo ebihikire nokuhabura aharyebyo ebitahikire arikwejunisa obutumwa oburi aharupapura oruri enyuma y'ebishushani.

Buri kichweeka ky'omushomo kishemereire kuba nikikwaata ahakintu/omutwe gumwe ninga ebiri kwenda kuha abahingi obwire kukora ebibashoma. Eki kishemereire kukworwa orikwejunisa ebyokureberaho ahari buri kintu kyoona ekiwashomesa.

Omushomesa ashemereire kwehara kushoma obutumwa oburikukwata ahabishushani atahereize bahingi mugisha gw'okuganiira ahabibashoma hamwe nokuboreka okubishemereire kukorwa omurutookye. Buri bwanyuma y'ekichweeka ky'omushomo, abahingi bekwaate babiribabiri baganiire ahabibayega n'ebibakuza kukora kubita omunkora.



Ebitookye Ebikusinga Habw'obugeiga N'amagara Marungi



Bugana Annet na Fred

Entookye za Annet na Fred zihikeine. Bombi nibatunga amasharuura gatarikwingana ahabwokuba n'endeberera nayo terikushushana.

Fred orutookye rwe narwaririra, narutamu ebigimusa, narwitira omubwire, nachwaho emikankaana omubwire, narusharira, narutemera emifuregye kandi atega n'ebikooko. We Annet nakoma ahakushwekyesa amashaansha n'ebireere, enkonya takuzikuura mubwire, emikankaana takukira kugichwaho, takukirwa kwitira, n'ebitookye takubitaho nkondo.

Annet nareeba orutookye rwe ayebuuza, *“Nkore ki kutunga ebyokurya bikumara ahaka kandi nokutunda nkatundaho?”*

Fred we nateekateeka, *“Ebyokurya ebikumara ahaka mbiine, n'ebitookye ebimwe nintundaho, kwonka nkore ki kwongyera ahabwingi bw'ebitookye bindikutunda?”*

Bugana Annet na Fred



Okutunda ebitookye omukatara

Fred na Annet babugabuganira omukatara n'omuhingi ondiiho orikwetwa Peter. Peter aine ebitookye bijwire emotoka kandi abaguzi boona bamwetoreire.

Annet we aine obutookye bw'obunyaara bushatu obwarikutundira ahakirago kandi Peter aine egaari eijwireho ebitookye bihango mushanju.

Okutunda ebitookye omukatare



Okutunda ebitookye omukatara

Fred na Annet bariyo nibagaanira okwebintu byagyenda omukatara.

Annet nayebuuza, *"ahabwenki ningaruka omuka nyine obusente bukye kandi obwo naremwa nokutunda akatookye aka?"*

Ahabwenki we Peter owaba aine emotoka yona eijwire yahezaho? Annet nayebuuza Peter owabaire nareeta ebitookye ahari pikipiki hati okwarikureeta emotoka yona!

Fred yareeta ekiteeso ngu bagambe na Peter bamanye irogo ryarikukozesa.

Okutunda ebitookye omukatare



Peter nakikora ata?

Kubabuuza Peter, yabagarukamu ati, *“tinyine irogo rindikukozesa n’endeberera nungi yonka.”* Peter yabeeta kwija aharutookye rwe begye endeberera nungi y’ebitookye. Annet yashaba Peter eikirize n’ekibiina ky’abahingi eki Annet arimu nakyo kimwegaiteho nabo begye. Peter yaikiriza.

Peter nakikora ata?



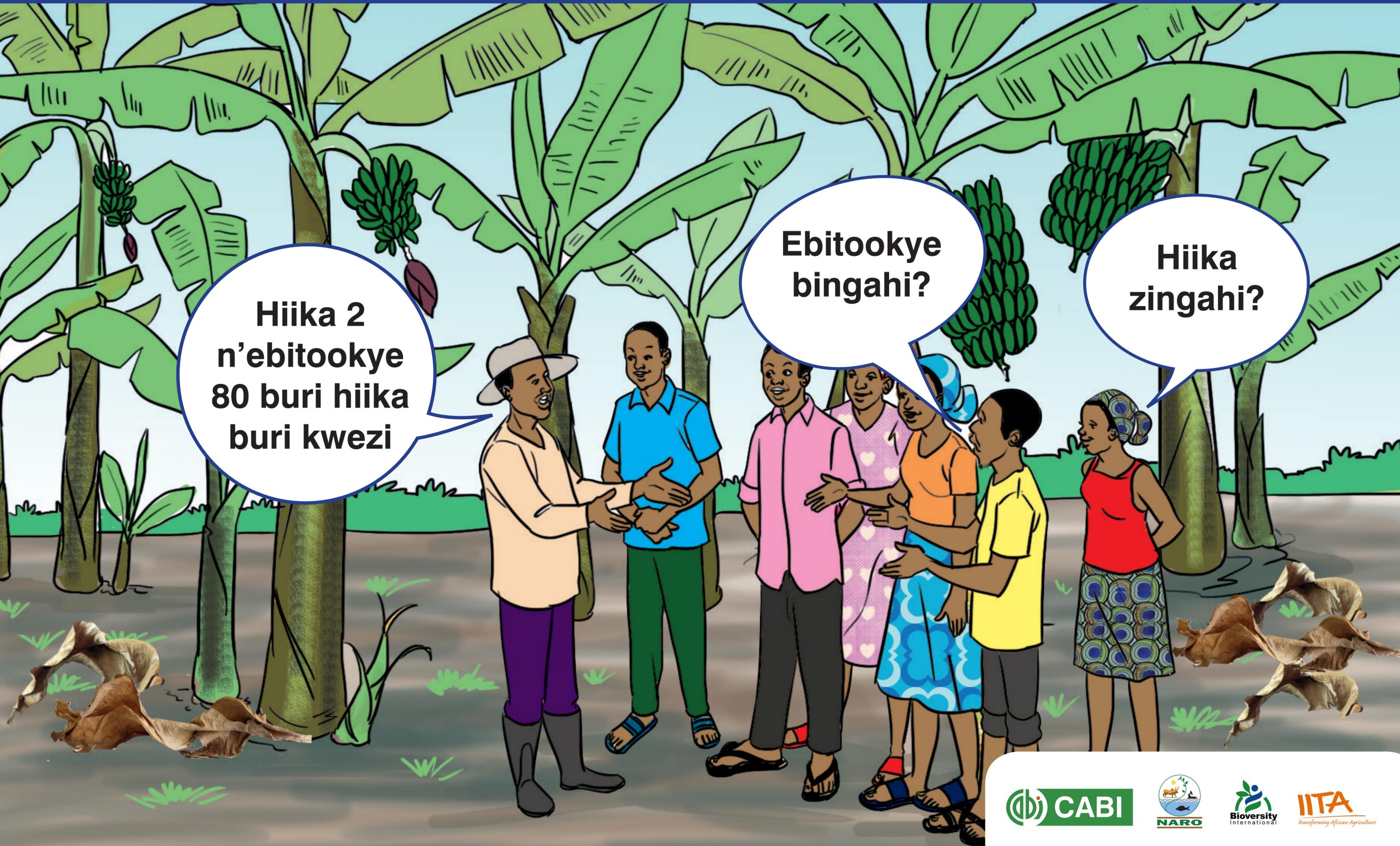
Okubugabugana aharutookye rwa Peter

Peter yayakiira abahingi omumakagye kandi yabatwara omurutookye. Fred, Annet n'abahingi abandi batangaara kubareeba orutookye rwa Peter.

Omuhibi omwe yabuuza Peter obuhango bw'orutookye rwe. *“Ebitookye byoona ebyorikureeta omukatare n'obiiha omurutookye oru?”* omuhibi ondiyo nabuuza.

Peter yagarukamu ati orutookye rwe norwa hiika 2 kandi natemamu ebitookye 80 buri hiika buri kwezi.

Okubugabugana aharutookye rwa Peter



Hiika 2
n'ebitookye
80 buri hiika
buri kwezi

Ebitookye
bingahi?

Hiika
zingahi?

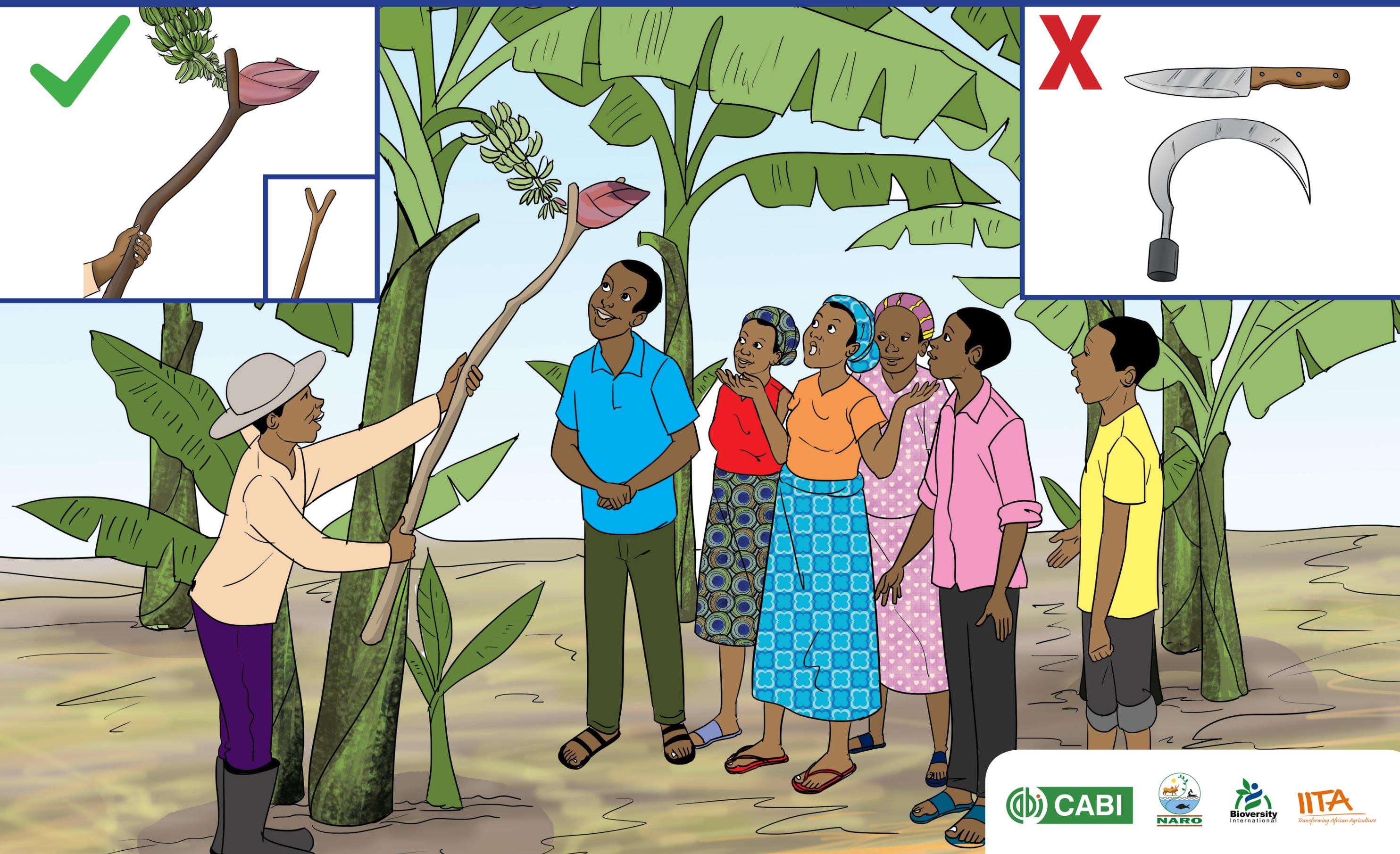
Okuhenda Emikankaana

Annet yabuuza Peter ati, *“nindeeba omukankaana gumwe gwonka omurutookye rwoona, emikankaana nogihenderaho ki, kandi nogihendaho ryaari?”*

Peter yagarukamu ati, *“ebitookye nimbihendaho emikankaana ahabwokuba nikiyamba kurwanisa okujanjaara kwa ka junde.”*

Peter yahabura Annet kuhendaho emikankaana ahabitookye arikukozesa eshaando bwanyuma y'oruhagara orukushembayo rwaheza kuhwayo ninga eminwa y'ekitookye yatandika kureeba ahaiguru.

Okuhenda Emikankaana



Ekihuka

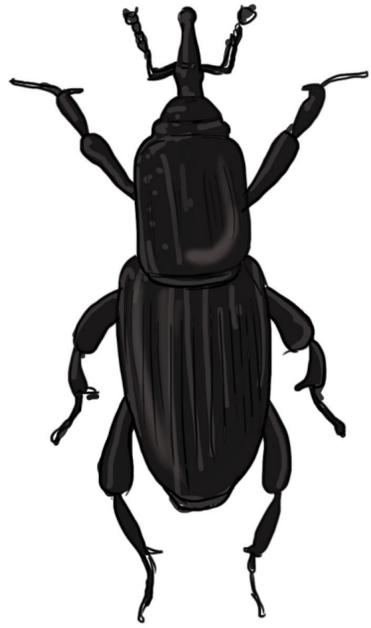
Omuhingi ondiyo yabuuza Peter okwarikurwanisamu ekihuka.

Peter yagarukamu ati ekihuka nikyo kyabaire nikikira kushisha munonga emitumba ye kandi nikibaasa kureeta okufeerwa okuri rwagati y'ebichweeka 8 na 60 ahari 100.

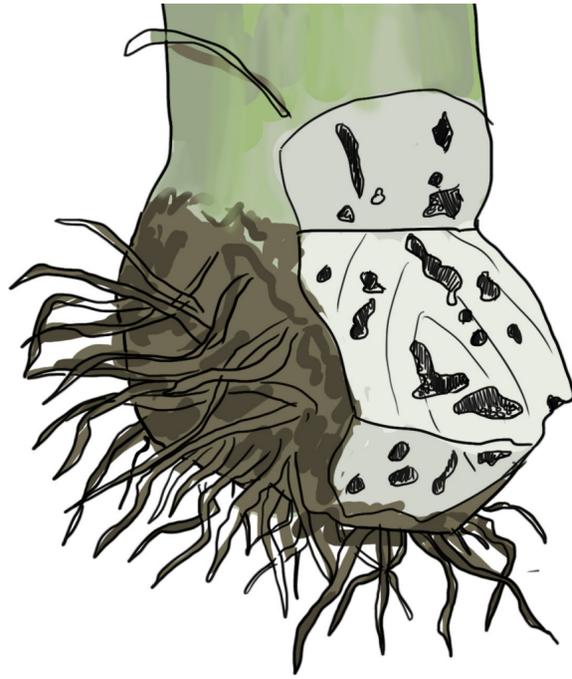
Ekihuka nikishisha munonga ehikikuberera nk'ekinyogori. Nikirya enkonyo kigikoramu ebihengyere eki kiteganisa entambura y'amaizi n'ebiriisa omumutumba kiretera omutumba gwahiguka. Ekihuka nikikunda emyanya mibisi kandi y'omwirima namunonga omukisiiku.



Ekihuka/Ekikooko



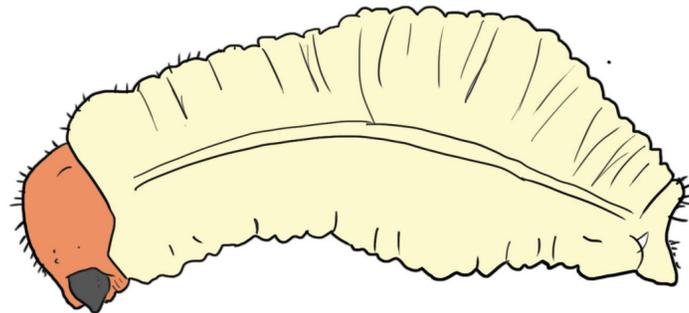
Ekihuka ekikuru



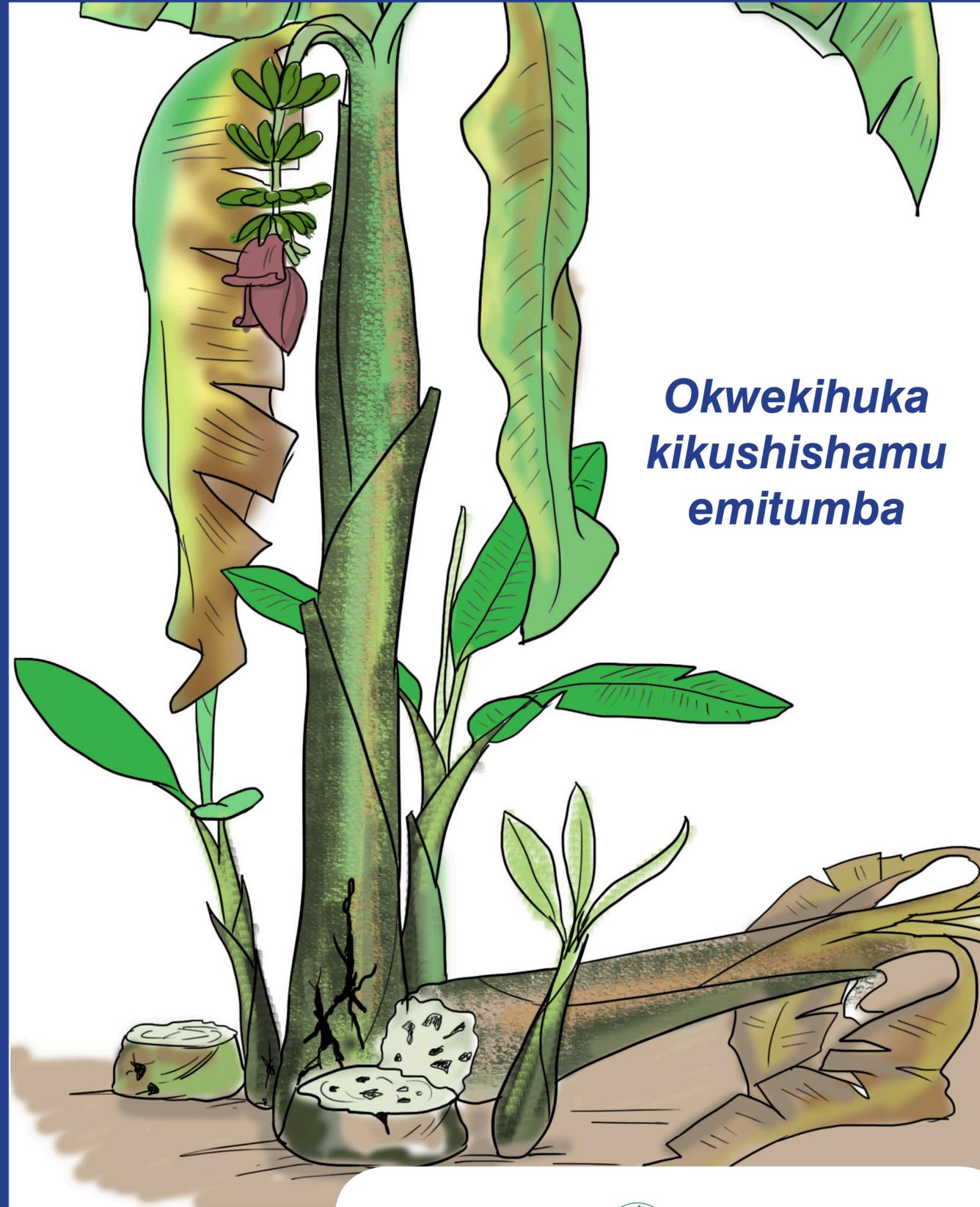
Amahuri



Ekihuka ekito



Ekihuka kyakiri nkenyogori



*Okwekihuka
kikushishamu
emitumba*

Okwekihuka kikukuramu

Kurwanisa ekihuka

i. Okutega ekihuka

Tema enkonyo orikukozesa omuhoro. Kozesa ekishate ky'ekisiiku ekiwatema oshwekye aha nkonyo. Kyeberaho omubiro nka bishatu oyiheho ebikooko ebyorashangyeho obimiggye obiite.

ii. Okutematema ebisiiku

Tematema ebisiiku omubuchweeka bukye obinaganagye omurutookye byoome.

iii. Okukuura enkonyo

Omurutookye orutaine kikooko/kihuka, enkonyo otazihigura juba bwanyuma y'okutema ekitookye. Zirekye zisigare zigumize enkoro kandi ozishwekyeho itaka. Enkonyo enkuru zikureho. Enkonyo yaba erirwe munonga ekikooko, temaho ekichweeka ekirirwe orekyeho ekichweeka ekihurire kisigare kigumize enkoro kandi ogishwekyeho itaka.

iv. Okutema emizi aha mitumba eyori kuzakubyara

Otakabyeire mutumba, guchwereggyerere ogutemeho emizi yona n'ebichweeka ebirirwe ekikooko.

Kurwanisa ekihuka



Kutega ekikooko



Kutematema ekisiiku



Kuchweregryerera emitumba eyiwaza kubyara okatemaho emizi



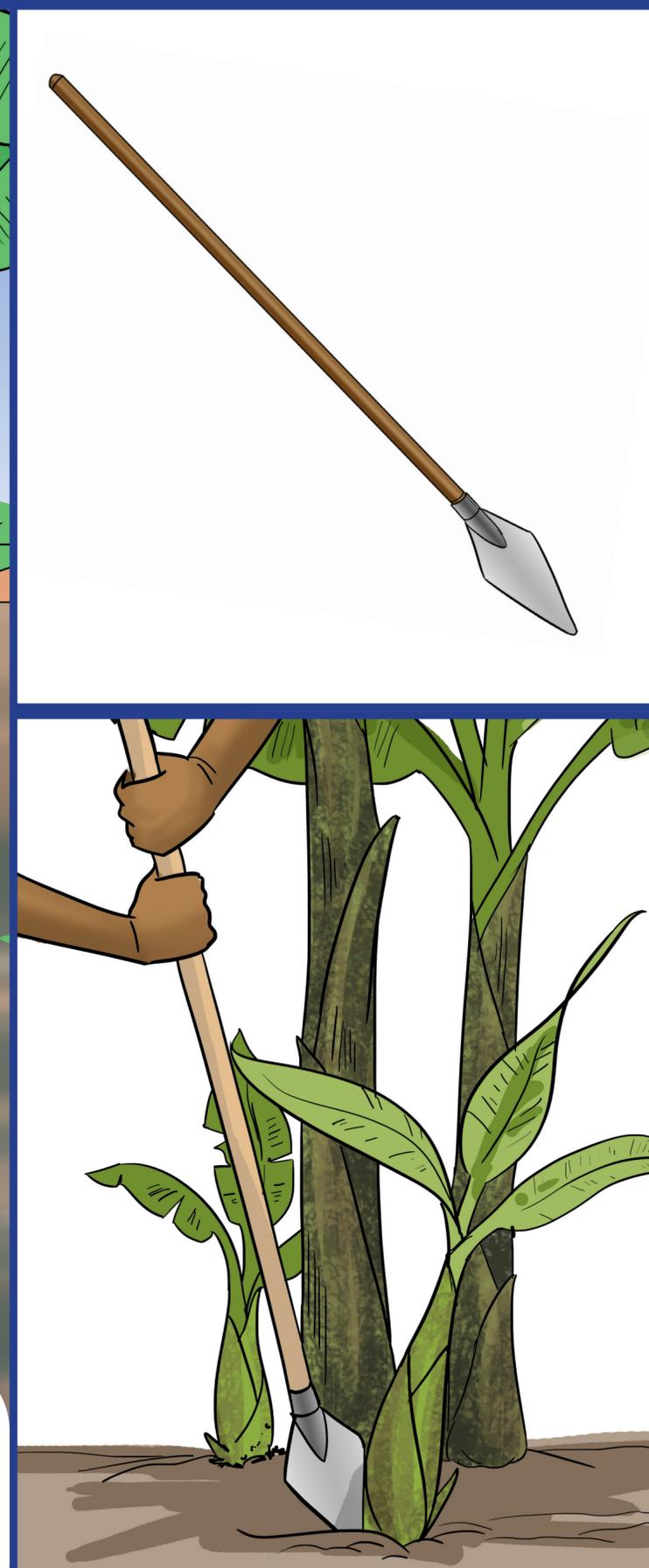
Kukuura enkonyo

Kwitira Orutookye

Peter yagumizamu yashoborora ngu okurwanisa ekihuka hamwe n'okwitira orutookye byona nibikuru munonga wanoyenda kugira orutookye rurungi.

- Okwitira nikikorwa kwenda kukyendeeza omubaro gw'abaana okasigaza emitumba mikye aha nkoro. Eki nikiretera emitumba kutaho ebitookye bihango. Kozesa diikura kwitira emitumba.
- Omukwitira, torana enkwaana ningashi abaana batarikwingana bukuru kugira ngu obe oine emitumba etarikwingana bukuru ekirikuretera wagira ebitookye buri kanya.
- Y'egyendesereze otahutaaza emitumba endiijo waba noyitira.
- Ahabika by'emitumba ebirikuzaarage, rekaho emitumba 3 buri nkoro, kandi ahabika by'emitumba ebirikuzaara kubi, rekaho emitumba 6 buri nkoro. Itaka ahari orutookye ryaba riri ribi, ninga enjura eri nkye ningashi orutookye rwaba ruri ahamwanya gurikushuuma munonga, rekaho emitumba ebiri buri nkoro

Kwitira Orutookye

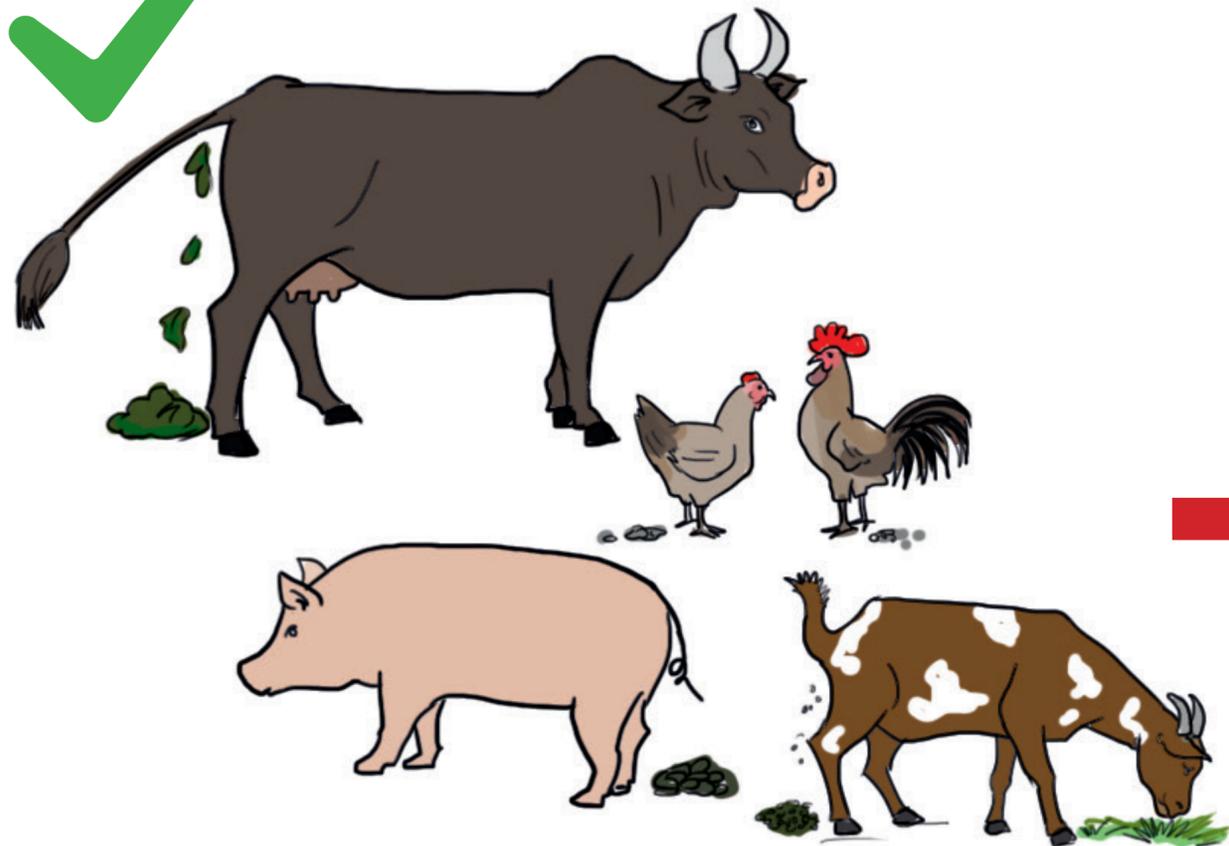
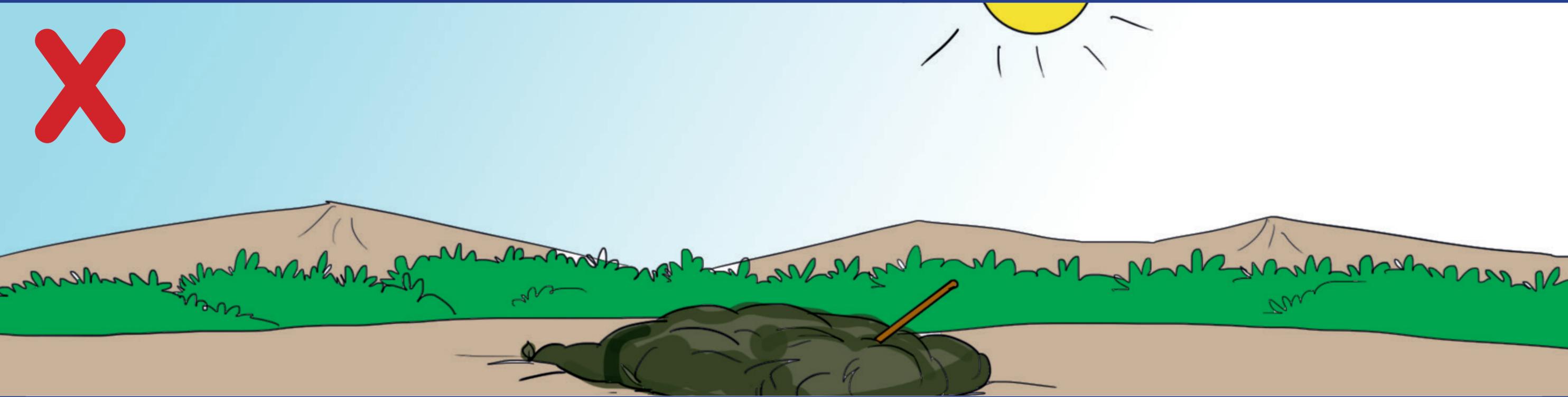


Okwoshemereire kutebekanisamu ebigimusa ebirikuruga omunyamaishwa

Peter nagumizamu kushoborora abahingi okworikubaasa kukozeesamu ebigimusa ebirikuruga omunyamaishwa. Akatandika n'okworikutebekanisamu ebigimusa ebi.

- Rundaana amasha g'ente, obuhurunguru bw'embuzi ningashi amatotori g'enkoko. Kwenda kwehara kutonyoroka, birundanire aha sementi, akaveera ningashi ebiti by'ebicoori.
- Reeba ngu wabita ahantu hari ekibunda kwehara okufumuka kw'ebiriisa. Bishwekye n'omurenzyo gw'itaka mukye, ebiti by'ebicoori ninga ebibingo.
- Ekirundo kiwakora kicumitemu ekiti rwagati kwenda ngu ogume nokyebera obutagatsi bwakyo. Guma n'okuramu ekiti ekyo okyebere obutagatsi bwakyo buri bwanyuma ya buri wiiki ibiri mpaka kworahurire ekiti kyafuka. Kworahurire ekirundo kyagira obufuki, manya ngu ebigimusa byawe byahika kutwara omurutookye.
- Ebigimusa eby'omuringo ogu nibimara okwezi nka kumwe n'ekichweeka kuba byajunziregye kutwara omurutookye.

Okwoshemereire kutebekanisamu ebigimusa ebirikuruga omunyamaishwa



Okukora ebigimusa kuruga omubinyatsi, ebitsigarira by'ebihingwa, amasha, iju n'ebindi

Peter nashoborora emiringo ebiri ey'okukoramamu ebigimusa kuruga omubinyatsi, omubinyatsi, ebitsigarira by'ebihingwa, amasha, iju n'ebindi.

Enkora ya Bangalore

Ebyorikuzesa: amaizi, iju, ebinyatsi bibisi, ebinyatsi byomire, amasha, ebitsigarira by'ebihingwa (nka ebiti by'ebicoori n'ebishushu by'ebihimba). Timba ekiina ky'enshonda ina (rekitango) kiine obureingwa bwa futi 1. Obuhango bwakyo nobureingwa niburigirira aha bwingi bwebyokuzesa ebyoine.

Buri kintu ekiwarundaana nka ebinyatsi bibisi, ebinyatsi byomire, amasha, ebitsigarira by'ebihingwa nka ebiti by'ebicoori n'ebishushu by'ebihimba, kora omurenzwo gwa centimita 10-15 buri murenzwo gumemerereho amaizi.

Tandika kupanga emirenzwo y'ebintu biwarundana omukiina. Omurenzwo ogwokubanza, taho ebitsigarira by'bicoori nari ebishushu by'ebihimba, omurenzwo ogwakabiri, taho ebinyatsi bibisi nka calliandra, omurenzwo ogwakashatu taho ebinyatsi byomire, omurenzwo ogwakana taho amasha/obuhurunguru bw'embuzi/amatotori g'enkoko ningashi ebyaruga omukiyungu nka ebishaniiko ningashi emizingonyo. Taho omurenzwo gw'iju ogarukye otandikye busya kutaho emirenzwo nk'okuwatandika (ebitsigarira by'bicoori, ebinyatsi bibisi, ebinyatsi byomire, amasha/obuhurunguru bw'embuzi/amatotori g'enkoko)

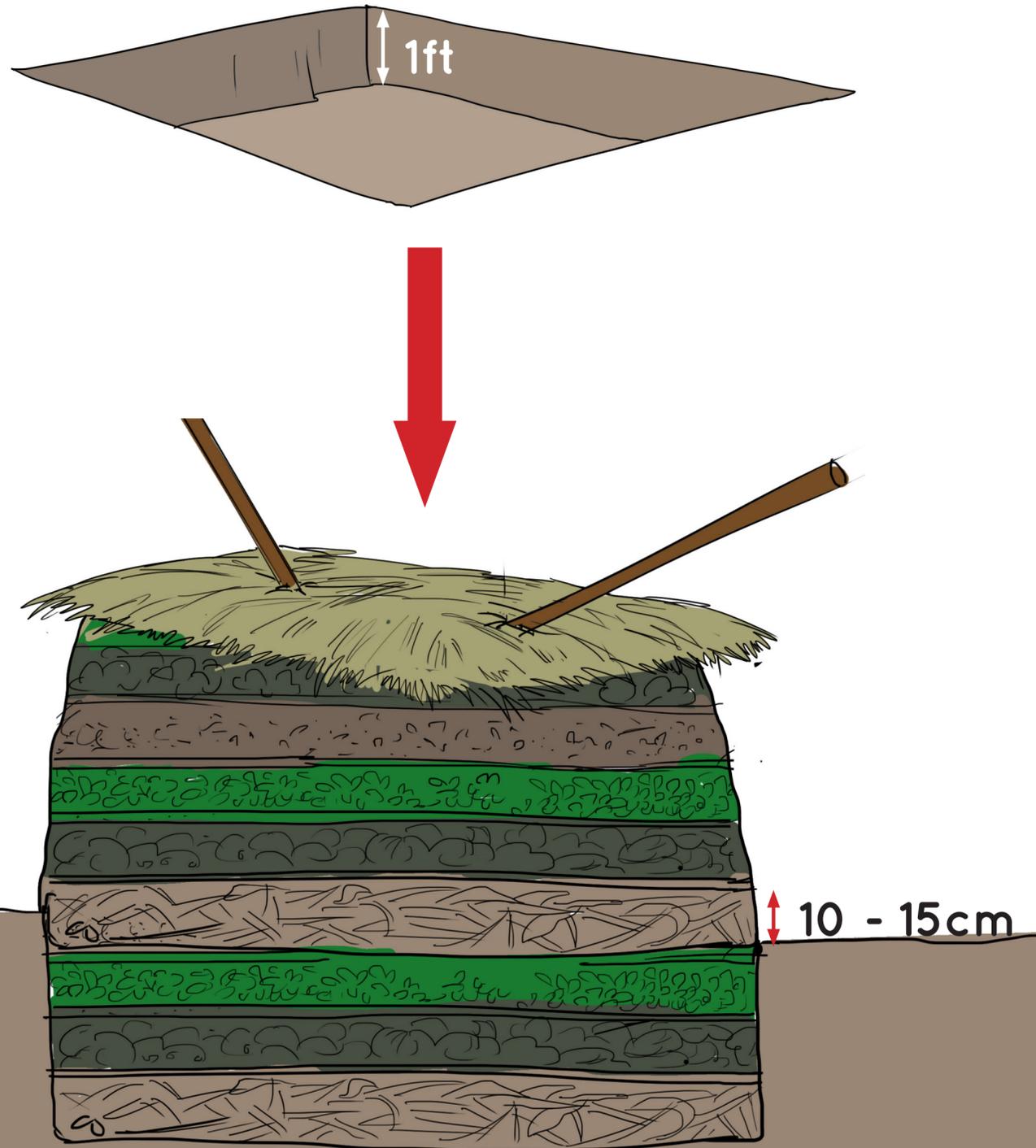
Ekirundo kyoona obureingwa bwakyo kishemereire kuba kiri ekya futi 2-4 kurunga ahansi kwenda ngu embeho erabemu kurungi. Ekirundo kicumitemu ekiti kitereire ogume nokyeberaho kureeba oba ekirundo nikikitagata ninga kihozire.

Kworakyebere ekiti okashanga nikifuka, manya ngu ekigimusa kyawe kyahika kutwara omurutookye. Ekigimusa eky'omuringo ogu nikitwara rwagati y'ameezi 3-6 kuba kihikire kuta omurutookye.

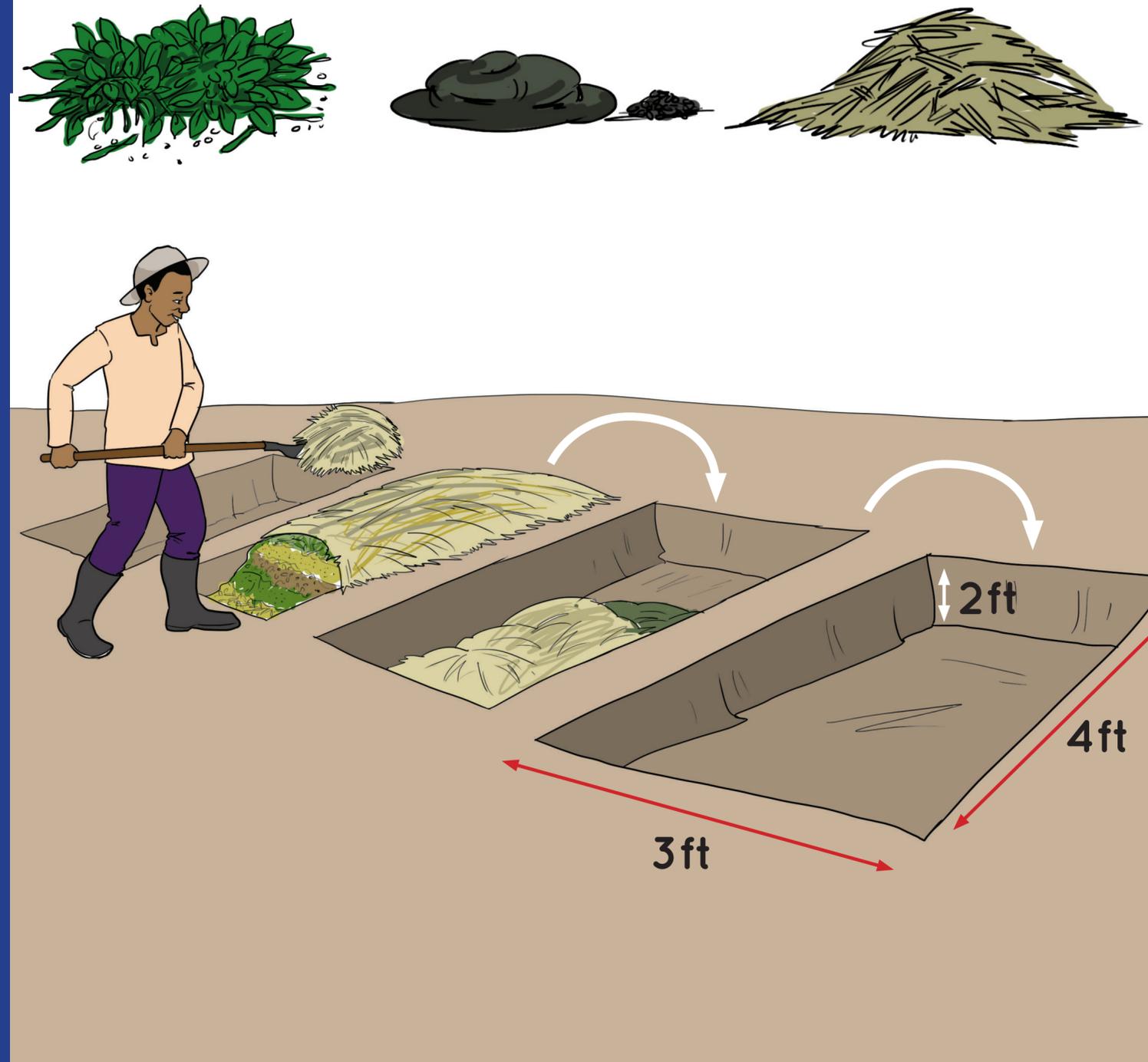
Enkora ya Indore

Timba ebiina bina bihikeine. Buri kiina kishemereire kuba kiri ekya futi 3-4 obuhango kandi obureingwa niburugirira aha bwingi bw'ebikozeso byoine. Ebikozeso bipangye omumirenzwo nk'okutwakushoborora omunkora ya Bangalore. Buri bwanyuma ya wiiki 2, hindura ekirundo kyawe kuruga omukiina ekikubanza okite omukiina ekindi. Kuhindura ekirundo omurundi gw'okubanza, kikore bwanyuma y'ebiro 10-15, kuhindura omurundi gw'akabiri kikore bwanyuma y'ebiro 15 oherize kuhindura ogw'okubanza. Kuhindura ogw'akashatu kandi ogurikushembayo, kikore bwanyuma y'ameezi 2 oherize kuhindura omurundi gw'akabiri. Ebigimusa bitware omurutookye waheza kukakasa ngu ekirundo kyajunda kurungi. Omubwire bw'omushana, ekirundo guma nokishukaho amaizi kwenda ngu kirahukye kujunda

Okukora ebigimusa kuruga omubinyatsi, ebitsigarira by'ebihingwa, amasha, iju n'ebindi



Enkora ya Bangalore



Enkora ya Indore



Okwoshemereire kutaho ebigimusa aha mitumba

Peter nahabura abahingi ngu wanobyara, buri mutumba, guteho ebaafu ibiri z'ebigimusa otabwiremu itaka ry'ahaiguru.

- Omurutookye rukuru, tematema kakye orikwetroora enkoro, oshukyeho ebaafu ibiri z'ebigimusa futi ibiri kuruga ahankoro kwenda ngu emitumba ekure kurungi.
- Obwingi bw'ebigimusa by'orikuta omurutookye nikirugirira ahambeera z'emitumba, kwonka hakiri taho ebaafu emwe ahari buri nkoro buri mwaka. Ninga timba ekiina rwagati yaburi nkoro ina zihikeine ebigimusa obite omukiina.

Okwoshemereire kutaho ebigimusa aha mitumba



Niryari obwoshemereire kuta ebigimusa omurutookye

Peter nahabura abahingi ngu kikabaire kirungi kuta ebigimusa omurutookye enjura eri haihi kutandika kugwa kibazise ebiriisa byoona kuza kurungi omwitaka enjura yatandika kugwa.

Okuganira kukwahwaire, Annet yayerarikirira okwarikuza kubaasa kuta ebigimusa omurutookye rwe rwona kandi obwo ateine sente kurungi.

Peter yaha amagyezi ngu omuhingi nabaasa kutandika n'akachweeka k'orutookye kakye haza agyende nayongyeraho mpora mpora sente zagyenda nizeyongyera.

Niryari obwoshemereire kuta ebigimusa omurutookye



Okwaririra

Omwe ahabahingi yabuuza Peter okwarikukumamu orutookye rwe nirurebeka kurungi omubwire bw'omushana.

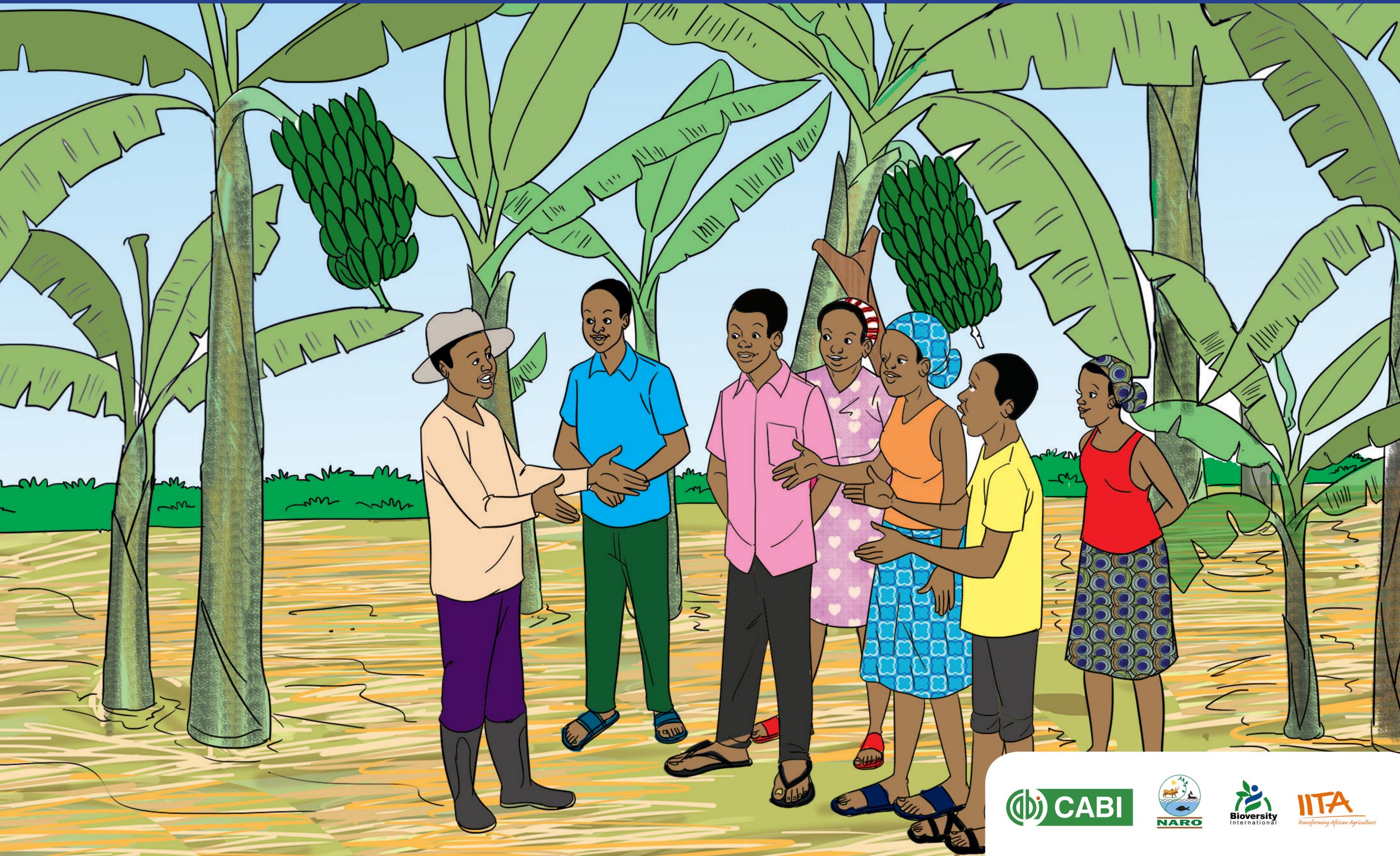
“Peter yagarukamu ngu nayaririra, natema emifurgye hamwe n’ebiina ningashi ebitaba ebikumuyamba kukumira amaizi omwitaka.”

Yabagira ngu okwaririra nikipuru munonga ahabwokuba nikiyamba kukumira amaizi omwitaka kumara obwire buraingwa, nikikyendeeza okutwarwa kw’itaka, nikyongyera obugimu omwitaka kandi kirwanisa n’omwata.

Abahingi nibabaasa kutunga eby’okwaririra kuruga aheru y’orutookye nka ebitsigarira by’ebihingwa ebyomire nka ebiti by’ebicoori, ningashi ebibingo. Yehare kwaririsa ebintu ebiine oburwaire ninga obukooko. Yaririra rwagati ya sizoni itaka ryaheza kunywa kurungi amaizi.

Yetegyereze ebi: Ebyokwaririsa ebirukuruga aheru y’orutookye nibiyamba kwongera ebiriisa omurutookye kandi ebyokwaririsa ebirukuruga omurutookye nk’ebireere, amashansa, ebisiiku niga endere nibiyamba buyamba kugaruramu ebiriisa ebimwe ebyaihirwe omwitaka obu orutookye rwabaire nirukora ebitookye.

Okwaririra



Okwoshemereire kushweeka orutookye

Peter nahabura abahingi kutandika nokushweeka akachweeka kakye k'orutookye akorikubaasa obwo ogyende noyongyeraho mpora mpora.

- Wanoshweeka orutookye, rekaho futi ibiri kuruga ahankoro kwenda kurekaho omwanya gw'okutemera emitumba, kurwanisa ekihuka kandi kwenda ngu emizi ekure kurungi.
- Omwariro gushemereire kuba nigwingana futi emwe ahari ibiri omubuhango ningashi kuruga ahansi.
- Orutookye rushwekye rwagati ya sizoni bwanyuma y'itaka kunywa amaizi rikijura.

Okwoshemereire kushweeka orutookye



Ebirikukwata amaizi

Peter nagumizamu kushoborora enkozesa y'emifuregye eine amatembezo hamwe n'ebiina ningashi ebitaba omukukwata amaizi. Emifuregye n'eyeyambisibwa kurundaana amaizi g'omutunga g'aija gakozezebwa bwanyuma.

Emifuregye eine amatembezo:

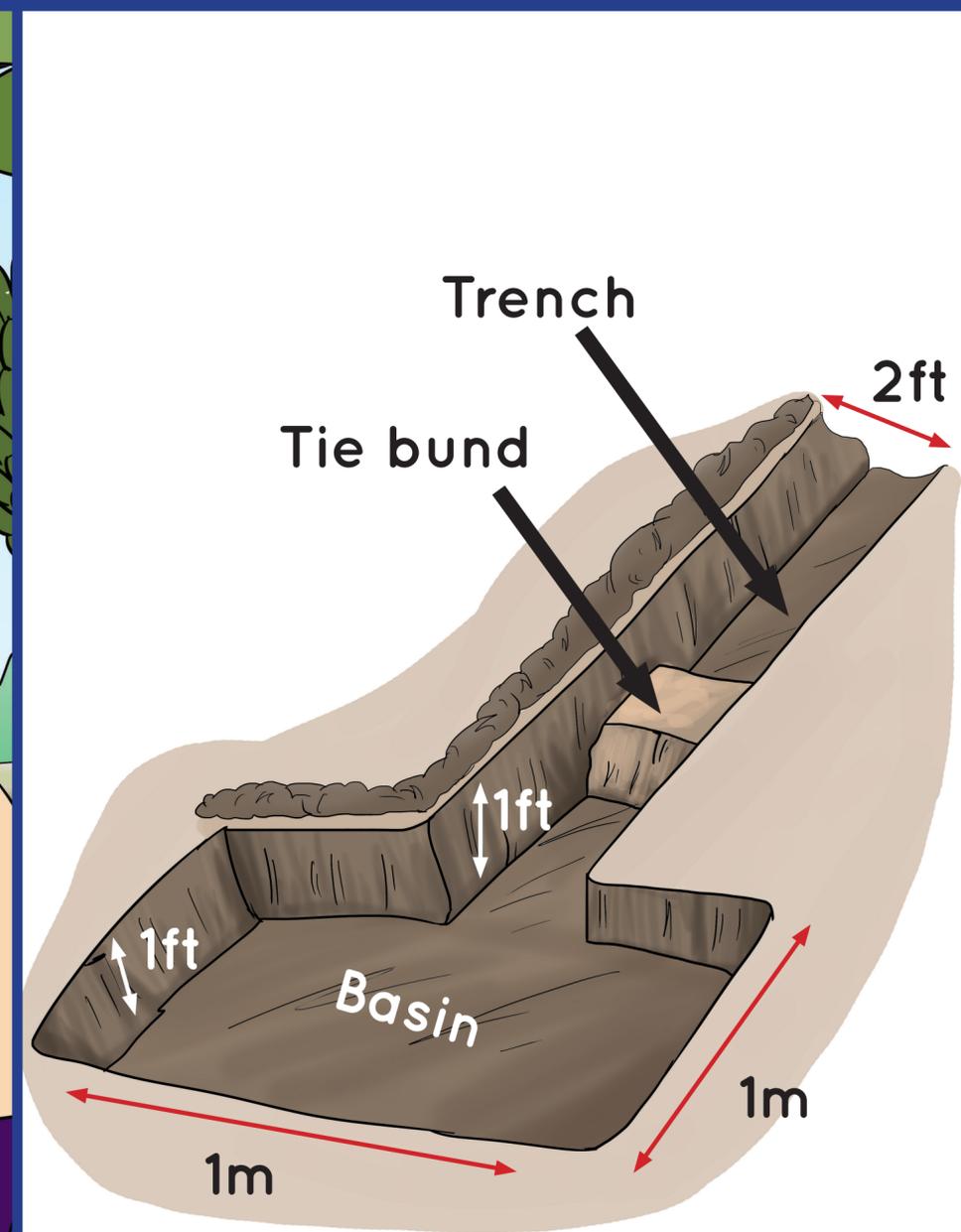
Emifuregye n'ebaasa kugira amatembezo ninga n'ebaasa obutagagira. Emifuregye eshemereire kuba eri futi ibiri obuhango kwenda ngu ebaase kurundaana amaizi gakumara. Orutookye rwaba ruri ahamwanya gw'akashuumo kakye ninga akashuumo karinganire, kozesa emifuregye eteine matembezo. Obureingwa bw'omufuregye bushemerire kuba butarikwingana omubichweeka bitarikushushana omurutookye kwenda ngu amaizi gabaase kushenshera n'okuguma omwitaka.

Kozesa emifuregye y'amatembezo orutookye rwaba ruri omumwanya gwakashuumo kareingwa. Amatembezo gashemerire kuba gari futi emwe obuhango. Wanotimba omufuregye ogurikubanza ahamutwe gw'akabungo, itaka ery'orikwihamu rite oruba ju rw'ahaifo (fanya chini). Omufuregye ogurikushembayo ahaifo y'akabungo, itaka ery'orikwihamu rite oruba ju rw'eriguri (fanya juu). Emifuregye endijo omurutookye yo nobaasa kugyenda nohindahindura fanya chini na fanya juu. Byara ebinyasi nka Vetiva ninga ebibingo ahitaka aryaruga omumifuregye (omucungiro) kwenda ngu rihame rireme kutwara amaizi.

Ebiina/Ebitaba:

Ebiina nibiyamba kukwata amaizi gakashenshera kandi gakaguma omw'itaka. Ebiina ebi bishemerire kuba biri futi ishata obuhango kandi futi emwe obureingwa. Ebiina nibitimbwa kurugirira ahabuhango bw'akashuumo/akabungo. Oburungi bw'ekiina niburuga ahabuhango bwakyo, ekiina kirungi kishemerire kuba kiri kihango. Ebiina nobaasa kubikozesa kutemeramu ebisiiku hamwe n'okwongyera ebigimusa omurutookye.

Ebirikukwata amaizi



Okutorana emitumba y'okubyara

Omwe ah'abahingi yashaba Peter kumuhereza aha mitumba y'okubyara omurutookye rwe. Peter yaikiriza kumuha emitumba y'okubyara kandi yabahabura kuguma nibabyara ebika by'emitumba erikugumira omushana, endwara kandi ebitookye birikurugaho birikukundwa omubutare.

Peter yabagambira ku hariho ebika by'emitumba ey'omurembe erikugumira endwara, omushana, n'obukooka. Ebi harimu M9 (n'ehangaara), M2, NAROBan3 hamwe na NAROBan4.

Okutorana emitumba y'okubiyara



Water sucker

Okukora ebintu by'emiringo mingi

Peter nagumizamu aha abahingi amagyezi kukora ebintu ebindi ebyakubaasa kurugamu sente kwongyesereza aharutookye:

Kuriisa

- Ebintu nka ente, embuzi, entaama, empunu nibirugamu amasha agakubaasa kukora nk'ebigimusa omurutookye. Kandi ebihatiro nobaasa kubiriisa ente, embuzi ninga empunu.

Kubyara emiti

- Kubyara emiti ahansharo y'orutookye nikiyamba kurwanisa omuyaga ogukubaasa kuhenda emitumba. Emiringo y'emiti nka Calliandra (kariyandura) na sesbania (munyuganyege) nobaasa kubiriisa ente kandi nobaasa nokubikozesa kukora ebigimusa.

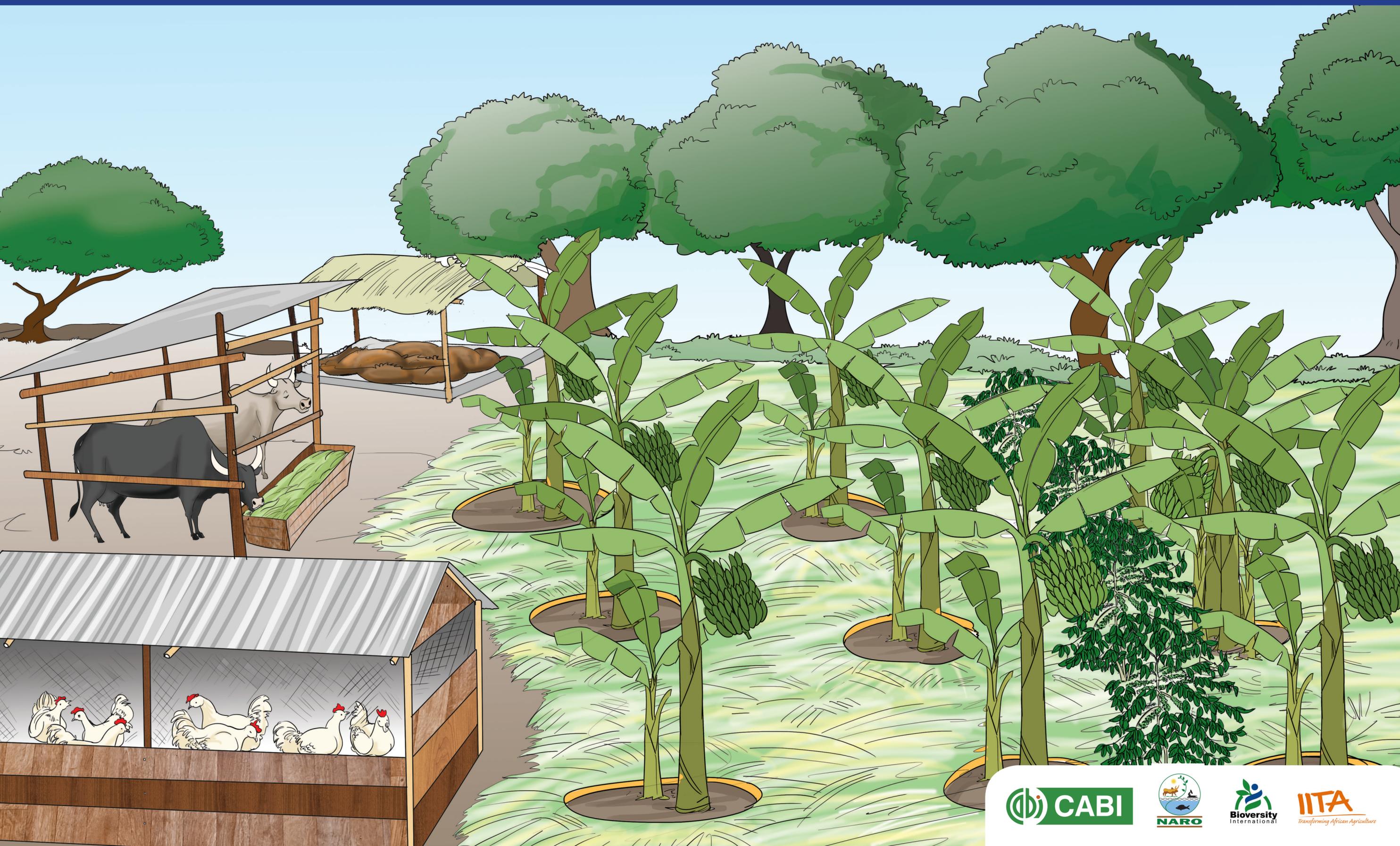
Okuhinga ebihingwa ebikugaruzamu obugimu omwitaka

- Okuhinga ebihingwa nka ebihimba omurutookye ruto nikiyamba kwongyera obugimu omwitaka. Ebihimba nobirya nk'emboga kandi ebishushu byabyo nobaasa kubikozesa omukwaririra.

Okuhinga omwaani n'ebitookye

- Wakoza ebipimo bihikire, okuhinga omwaani omurutookye nikiyamba kutunga kingi omumwanya gumwe. Wori owokutabura omwaani omurutookye, buri bwanyuma ya rayini 2 z'emitumba, byaraho rayini y'omwaani 1.

Okukora ebintu by'emiringo mingi



Nikiy ekirakurataho?

Peter yehanangiriza abahingi okuteka omunkora ebibayega. Yabangira ngu ekirakurataho mukwongyera omutindo rw'ebitookye n'okukozesa orwezo n'okushukyera entookye.

Nikiyi ekirakurataho?



Empindahinduka bwanyuma y'omwaka gumwe

Bombi Annet na Fred ebi Peter yabashomeishe bakabita omunkora kandi obwingi n'omutindo gw'ebitookye byabo gwayeyongyera. Obwa hati, Peter na Annet tibakyetenga kutwara ebitookye byabo omukatara ahobwokuba abashubuzi ebitookye byabo nibagurira omurutookye.

Empindahinduka bwanyuma y'omwaka gumwe



Okwebaza

NARO/ NARL

- Wilson Asher Okurut
- Milton Tenywa
- Fahadi Musaazi
- Moses Arinda
- Experito Kabuga Muyanja
- Kenneth Akankwasa
- Stella Kiconco
- Jessica Namaganda
- Elizabeth Ahikiriza
- Silverius Tumukurate
- Maria Nsengiyunva
- Daniel Kimeze
- Daphine Kamusingize
- Jerome Kubiriba

Bioversity International

- Esther Gloria Mbabazi
- Marsy Asindu
- Enoch Kikulwe

NARO/ ZARDIs

- Stephen Natuha NARO Mbarara
- Godfrey Biso NARO Mukono
- Douglous Jjemba NARO Rwebitaba Mutebi

Farmer Institutions Representatives

- Steven Musisi Kyasanga Farmer group, Nakaseke
- Henry Turyakira Rwimi Revolutionary Groups
- Sarah Tusingwire Banana producers cooperative

Extension Representatives (Public, NGOs & Radio)

- Aloysius Karugaba Isingiro
- Benono Kahangi Nakaseke
- Agnes Tumusabe Bunyangabo
- Fredica Baguma NGO RUHEIPA
- Senabulya Vincent Radio Musana

IITA

- Richard Malingumu
- Jabungu Allan
- Godfrey Taulya
- Dianah Nakubulwa
- Zaharah Najuma

CABI

- Christine Aloit
- Abigael Mchana
- James Watiti

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