

DRAWING A BETTER WORLD



SAWBO

Scientific Animations Without Borders



APA	Bello-Bravo, J., Lin, A., Blalock, B., Balfe, S., Sternecky, N., Katz, N., & Pittendrigh, B. R. (2017). <i>Drawing a Better World</i> (Vol. 1, No. 1). East Lansing, MI: Scientific Animations Without Borders (SAWBO).
Harvard	Bello-Bravo J, Lin A, Blalock B, Balfe S, Sternecky N, Katz N, and Pittendrigh B R (2017). <i>Drawing a Better World</i> , East Lansing, MI: Scientific Animations Without Borders (SAWBO).
Chicago	Bello-Bravo, Julia, Annie Lin, Ben Blalock, Susan Balfe, Neal Sternecky, Natasha Katz, and Barry R. Pittendrigh. <i>Drawing a Better World</i> . Vol. 1, No. 1. East Lansing, MI: Scientific Animations Without Borders (SAWBO), 2017.
Vancouver	Bello-Bravo J, Lin A, Blalock B, Balfe S, Sternecky N, Katz N, Pittendrigh BR. <i>Drawing a Better World</i> . East Lansing, MI: Scientific Animations Without Borders (SAWBO); 2017.
MLA	Bello-Bravo, Julia, et al. <i>Drawing a Better World</i> . Vol. 1, No. 1. East Lansing, MI: Scientific Animations Without Borders (SAWBO), 2017. Print.

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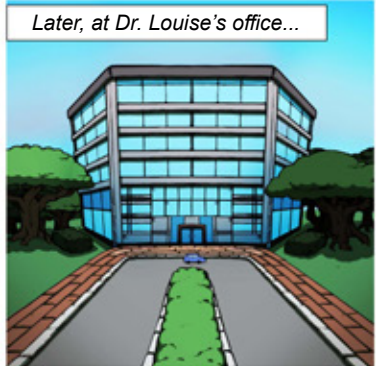
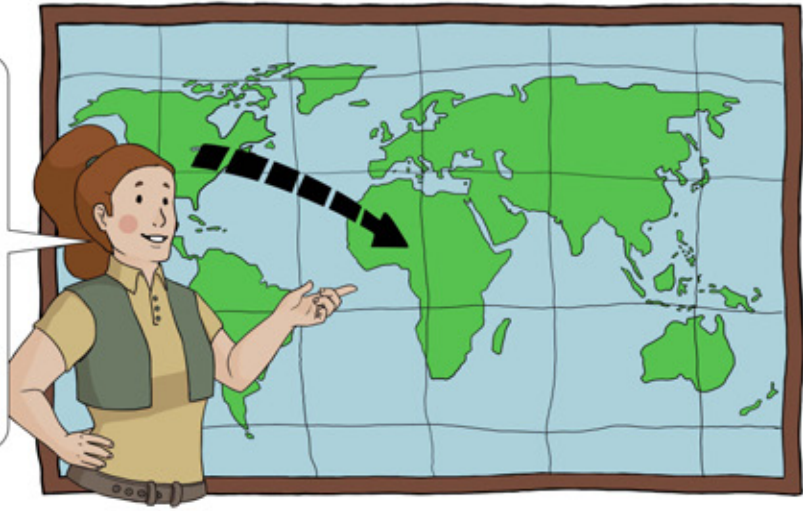
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Hello! My name is Jane. I work globally as a volunteer and participate in educational programs to help people in their communities. This week, I am visiting a country in Africa, and I want to leave behind information that can help people. With the help of the SAWBO Deployer App, I can share useful information with the people in the places I visit.



Hello, Dr. Louise!

Hello, Jane! It is good to see you. I have something important to discuss with you.



As you know, our agency helps to bring practical information to people in our community.



However, the budget for our programs is limited.



I have a solution for that! Let me show you...



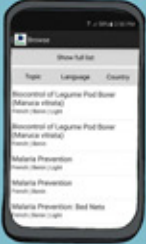
the SAWBO Deployer App!

The SAWBO Deployer App? What is that?

It's a free application you can install on your mobile device to access SAWBO's many educational animations! With this app, you can deploy many animations to a lot of people in languages they will understand. Let me show you how to install it.



Now you can download these animations to share with others in the community.



Will you help me share this with my team?

Of course!

Thank you for coming, everyone. Jane and I have something great to show you.

This is the SAWBO Deployer App, and it will help greatly with our educational programs in our community.

SAWBO animations are free to download and to use, so you do not have to worry about your budget.

We can use SAWBO animations freely for educational purposes.



This app is great! I will download the microfinance animations to share with others in our program.



Thank you for your time everyone. I hope to speak to all of you again soon.

I'm off to see my collaborator, Wendy, in the village.



Hello, Jane. Welcome to my village!

Hello, Wendy!



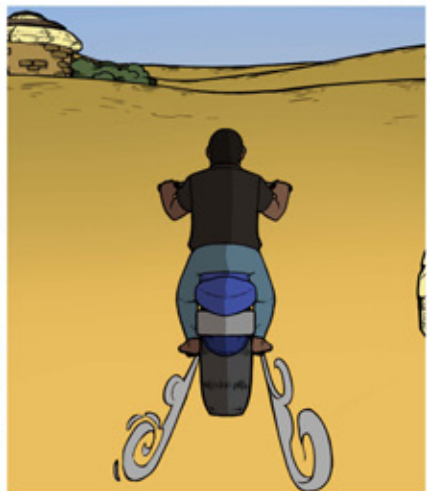
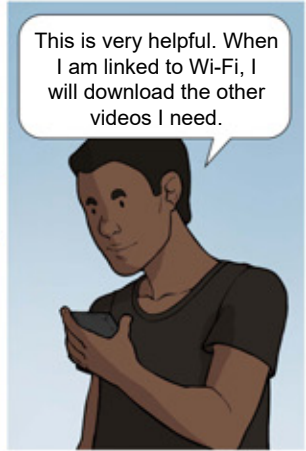
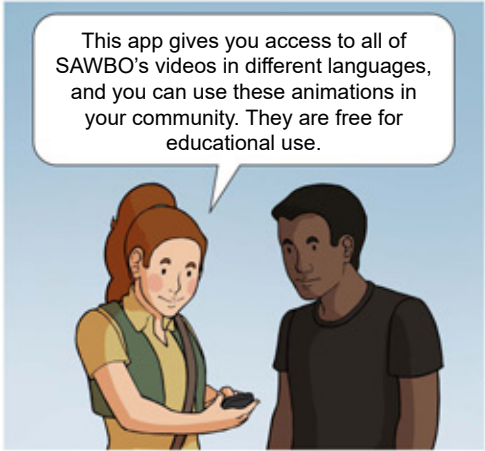
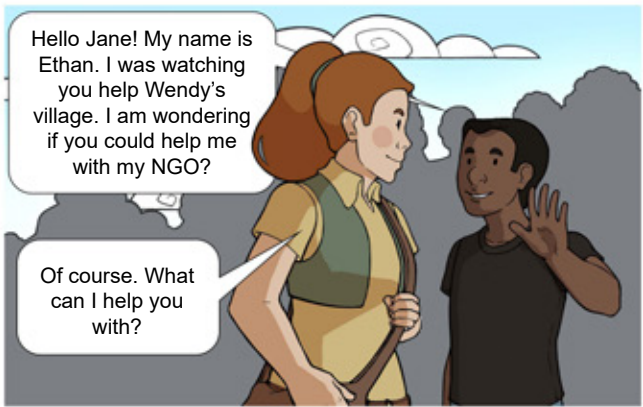
It's great to be here, but why are there so many mosquitoes? They can carry life-threatening diseases.

It's quite troubling.



Let's try these techniques.





Hello, everyone. I'd like to show you the SAWBO Deployer App. With this, we can learn how to improve the quality of our crops and prevent loss of grains because of pests and spoilage.



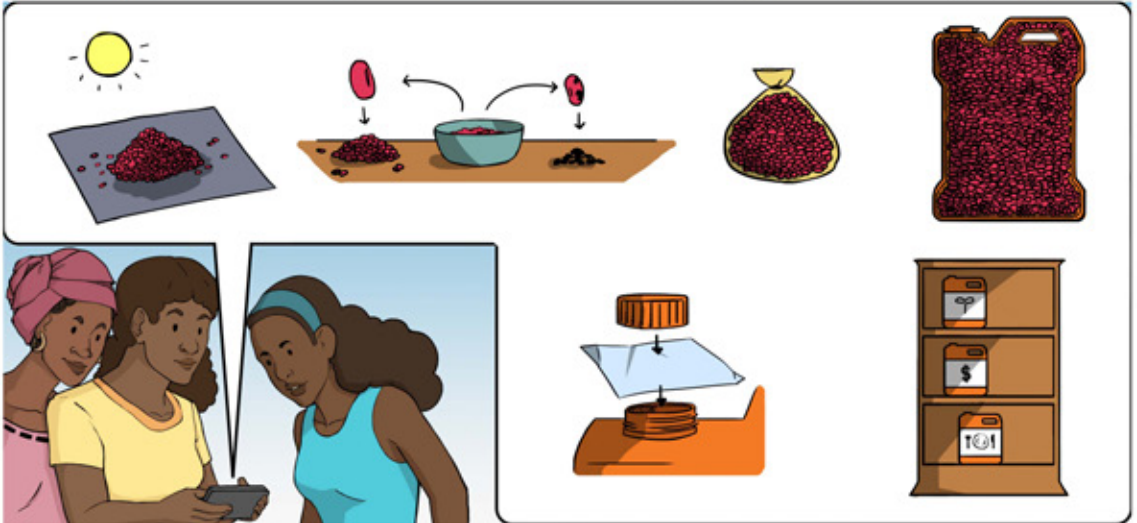
This video demonstrates proper bean storage for eating, planting, or selling by using locally available plastic containers.

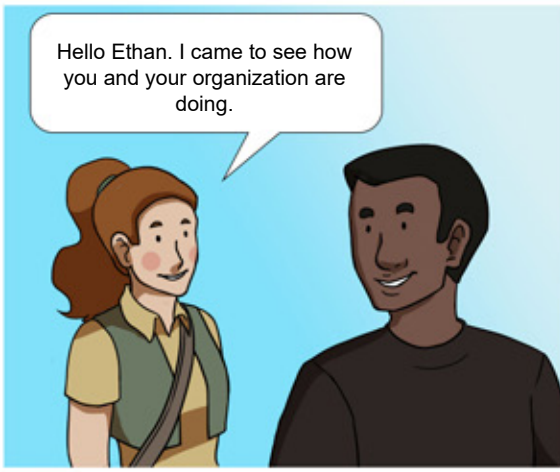


I can share this with anyone who has a cell phone that is Bluetooth® and video capable.



Sounds great, Ethan. Let's get started.





Hello Ethan. I came to see how you and your organization are doing.

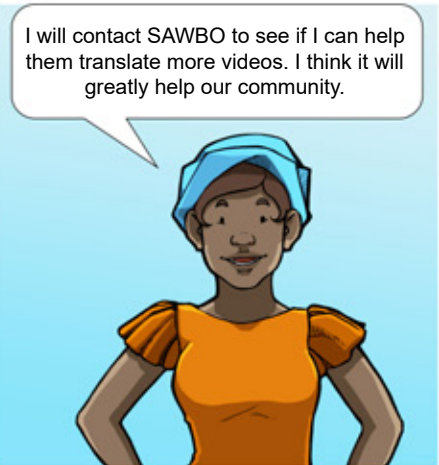


Everyone, this is Jane. She showed me the SAWBO Deployer App.



I really like SAWBO's videos because they are available in a lot of languages. You can even have more animations in my language.

SAWBO is always looking for volunteers to translate their videos into new languages, so more people can have access to them.



I will contact SAWBO to see if I can help them translate more videos. I think it will greatly help our community.

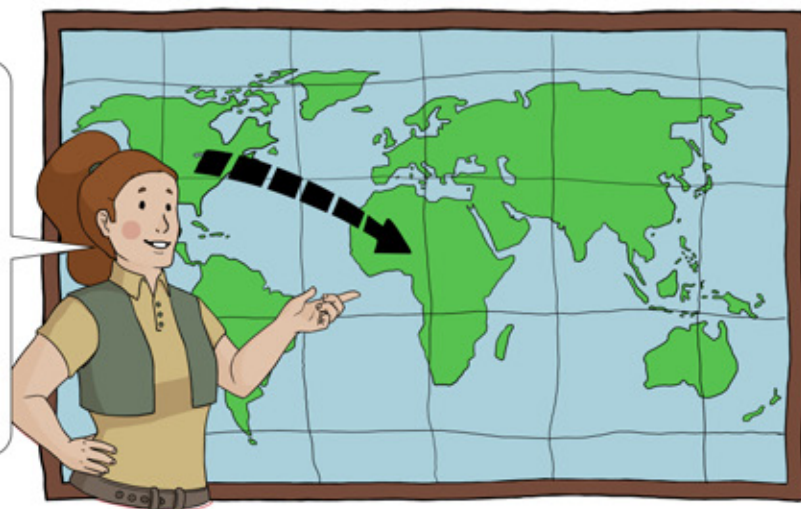


The SAWBO Deployer App was very helpful for sharing knowledge with the many communities I visited. My week is up! The time goes by so quickly. Everyone was very nice and I learned a lot. I am glad I could share important information with everyone I met. The SAWBO App makes sharing easy. Well, it's time to leave and go to my next adventure. See you next time as we...



DRAW A BETTER WORLD!

Bonjour! Je m'appelle Jane.
Je travaille dans le monde entier en tant que bénévole et je participe à des programmes éducatifs pour aider les gens dans leurs communautés. Cette semaine, je visite un pays en Afrique, et je veux y laisser des informations pouvant aider les gens. Grâce à l'application SAWBO, je peux apporter des informations utiles aux personnes dans les pays que je visite.



J'ai hâte de rencontrer Dr. Louise et de discuter avec elle de son agence gouvernementale.



Quelques instants plus tard dans le bureau de Dr. Louise...



Bonjour, Dr. Louise!

Bonjour Jane! Je suis très heureuse de vous retrouver. J'aimerais discuter avec vous de quelque chose d'important.



Comme vous le savez, notre agence aide à apporter des informations pratiques aux personnes de notre communauté.



Cependant, le budget pour notre programme est limité.



J'ai une solution à cela! Regardez...



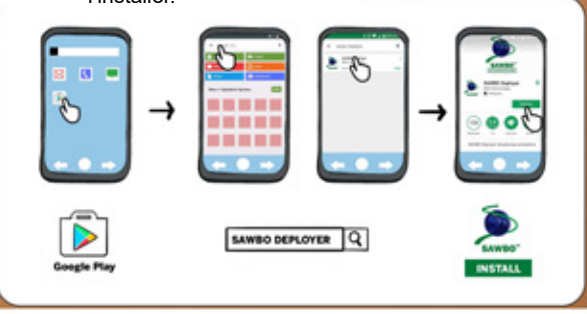
l'application SAWBO.





L'application SAWBO?
Qu'est-ce que c'est?

C'est une application gratuite que vous pouvez installer sur votre téléphone portable afin d'accéder aux nombreuses animations éducatives de SAWBO! Avec cette application, vous pouvez montrer de nombreuses animations à beaucoup de personnes dans la langue de leur choix. Laissez-moi vous montrer comment l'installer.



Maintenant, vous pouvez télécharger ces animations pour les partager avec d'autres personnes de la communauté.



Pouvez-vous m'aider à la partager avec mon équipe?

Evidemment!



Merci à tous d'être venus! Jane et moi avons quelque chose à vous montrer.

Voici l'application SAWBO. Elle va grandement nous aider pour les programmes éducatifs de notre communauté.



Nous pouvons utiliser les animations SAWBO gratuitement à des fins éducatives.



Les animations SAWBO sont gratuites à télécharger et à utiliser. Vous n'avez pas à vous soucier de votre budget.

Cette application est géniale. Je vais télécharger les animations sur la microfinance pour les partager avec d'autres personnes dans notre programme.



Merci à tous de nous avoir donné votre temps. J'espère vous revoir très prochainement.



En route pour voir ma collaboratrice Wendy dans le village.



Bonjour Jane. Bienvenue dans mon village!

Bonjour Wendy.



Je suis très heureuse d'être ici, mais pourquoi y a-t-il autant de moustiques? Ils peuvent transmettre des maladies mortelles.



Cela est très inquiétant.



Essayons ces méthodes!



J'ai beaucoup apprécié de travailler avec vous tous, mais je dois m'en aller. J'aurais aimé pouvoir rester plus longtemps pour travailler avec plus de gens.

Bonjour Jane! Je m'appelle Ethan. Je vous ai vu aider le village de Wendy. Je me demandais si vous pourriez m'aider avec mon ONG?

Bien sûr. Que puis-je faire pour vous?

Je vois que vous avez un smartphone. Laissez-moi vous montrer l'application SAWBO.

Mon ONG locale aide les gens de ma communauté. Malheureusement, le matériel éducatif est beaucoup trop cher.

Cette application vous donne accès à toutes les vidéos SAWBO dans différentes langues. Vous pouvez utiliser les animations dans votre communauté. Elles sont gratuites pour une utilisation éducative.

L'application et les vidéos peuvent même être partagées via Bluetooth.®

Cela est très utile. Lorsque je serai connecté au wifi, je téléchargerai les autres vidéos dont j'ai besoin.

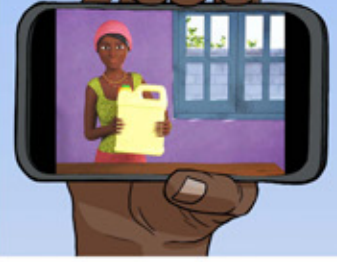
Merci Jane! A bientôt.

Au revoir Ethan!

Bonjour à tous. J'aimerais vous montrer l'application SAWBO. Avec cette application, nous pourrions apprendre à améliorer la qualité de nos cultures et à éviter la perte des céréales due aux insectes ou à la pourriture.



Cette vidéo montre comment conserver les haricots pour la nourriture, la plantation et la vente à l'aide de conteneurs plastiques localement disponibles.



Je peux partager cette vidéo avec toute personne possédant un téléphone portable compatible Bluetooth® et capable de jouer des vidéos.



Génial, Ethan! Commençons sans attendre.



Bonjour Ethan. Je suis venue voir comment votre organisation et vous, vous vous portez.



Tout le monde, voici Jane! C'est elle qui m'a montré l'application SAWBO.



J'aime beaucoup les vidéos SAWBO parce qu'elles sont disponibles dans beaucoup de langues. Vous avez même plus d'animations dans ma langue.



SAWBO recherche toujours des volontaires pour traduire leurs vidéos dans de nouvelles langues pour que davantage de personnes puissent y accéder.

Je vais contacter SAWBO pour voir si je peux les aider à traduire plus de vidéos. Je pense que cela va grandement aider notre communauté.



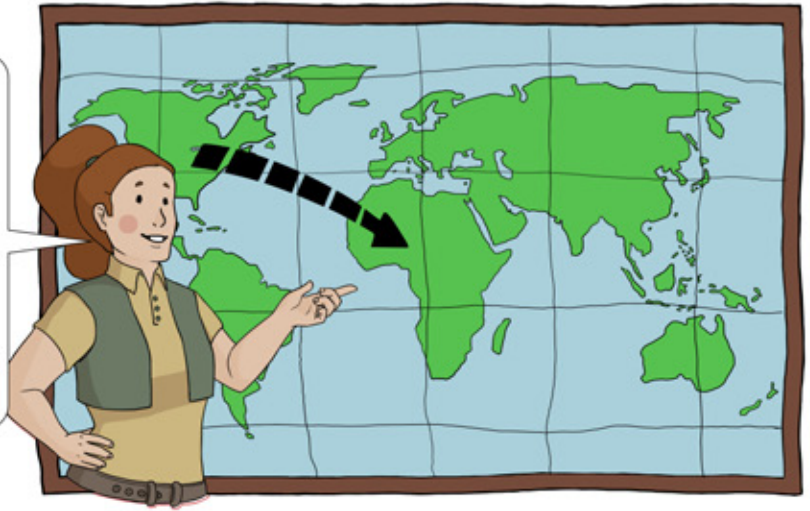
L'application SAWBO a été très utile pour partager le savoir avec de nombreuses communautés que j'ai rencontrées. Ma semaine est finie! Le temps passe si vite. Tout le monde a été très aimable et j'ai beaucoup appris. Je suis très heureuse d'avoir pu partager des informations importantes avec toutes les personnes que j'ai rencontrées. L'application SAWBO facilite le partage. Bon, il est temps pour moi de partir et de commencer ma prochaine aventure. A la prochaine pour...



DESSINER UN MONDE MEILLEUR!



¡Hola! Mi nombre es Jane. Trabajo como voluntaria internacional y participo en programas educativos ayudando a la gente en sus propias aldeas. Esta semana estoy visitando un país en África y quisiera dejar información que pueda ayudar a esa gente. Con la ayuda de la aplicación (app) SAWBO, puedo compartir información útil con las personas en aquellos lugares que visite.



Estoy entusiasmada con ver a la Dra. Louise para hablar de su agenda de gobierno.



Más tarde en la oficina de la Dra. Louise...



¡Hola, Dra. Louise!

¡Hola Jane, encantada de verte! Tengo algo importante que quiero compartir contigo.



Como bien sabes, nuestra agencia se encarga de distribuir información útil para las personas que la necesitan en nuestra aldea.



Sin embargo, nuestro presupuesto es limitado.



¡Tengo una solución para eso! Permíteme mostrarte...



la aplicación de SAWBO.

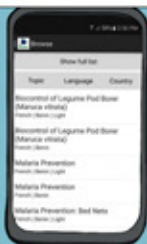


¿La aplicación de SAWBO?
¿Qué es eso?

¡Es una aplicación gratuita que puedes instalar en tu dispositivo móvil para acceder a todas las animaciones educativas de SAWBO! Con esta aplicación, puedes compartir las animaciones con otras personas en su propio idioma. Déjame mostrarte como se instala.



Ahora puedes descargar las animaciones y compartirlas con otros en tu aldea.



¿Me ayudarías a compartir esto con mi equipo?

¡Por supuesto!



Gracias por venir, Jane y yo tenemos algo estupendo que mostrarles.

Esta es la app de SAWBO y nos ayudará con nuestros programas educativos.



Podemos usar las animaciones de SAWBO gratuitamente para fines educativos.

Las animaciones de SAWBO son gratis para descargar y usar, por lo cual no deben preocuparse por el presupuesto.





Iré a ver a mi colaboradora Wendy en su aldea.



Mi pueblo necesita aprender cómo prevenir la picadura de los mosquitos. ¿Puedes ayudarme a enseñarles?

¡Por supuesto!

Puedo utilizar la app de SAWBO para compartir un video explicativo para todos.

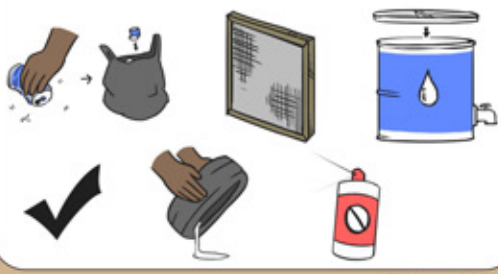
El video muestra cómo protegerte de los mosquitos.



¿Puedes enseñarles esto a los demás?

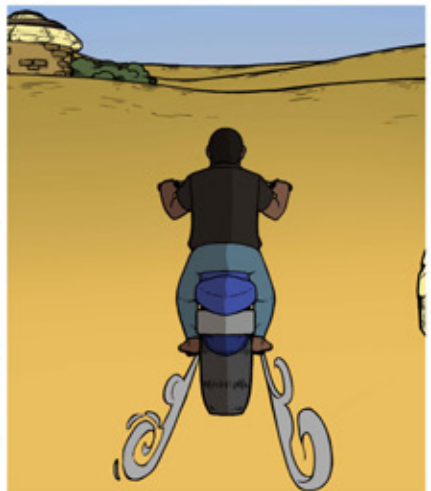
¡Por supuesto! Incluso puedo compartir las animaciones usando Bluetooth®, para que todos tengan acceso en sus teléfonos móviles.

ESPAÑOL



¡Vamos a probar estas técnicas!

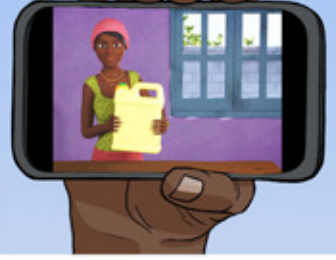




Hola a todos. Me gustaría mostrarles la app de SAWBO. Con la que nosotros podemos aprender cómo mejorar la calidad de nuestras cosechas y prevenir las pérdidas de granos por las plagas o su deterioro.



Este video muestra la mejor manera de almacenar los frijoles para comer, plantar y vender, usando contenedores plásticos disponibles.



Puedo compartir esto con cualquiera que tenga un teléfono móvil.



Estupendo Ethan. ¡Vamos a comenzar!



ESPAÑOL





Vine a ver cómo les va en su organización.

Os presento a Jane. Ella me enseñó la aplicación de SAWBO.

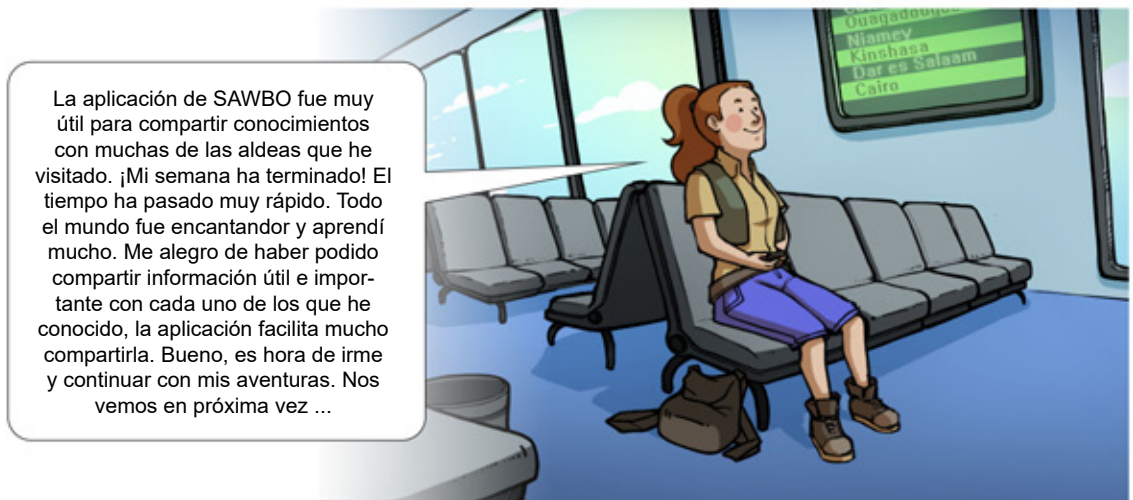


Realmente me gustan los videos de SAWBO porque están disponibles en muchos idiomas. Incluso tienen más animaciones en mi propio idioma.

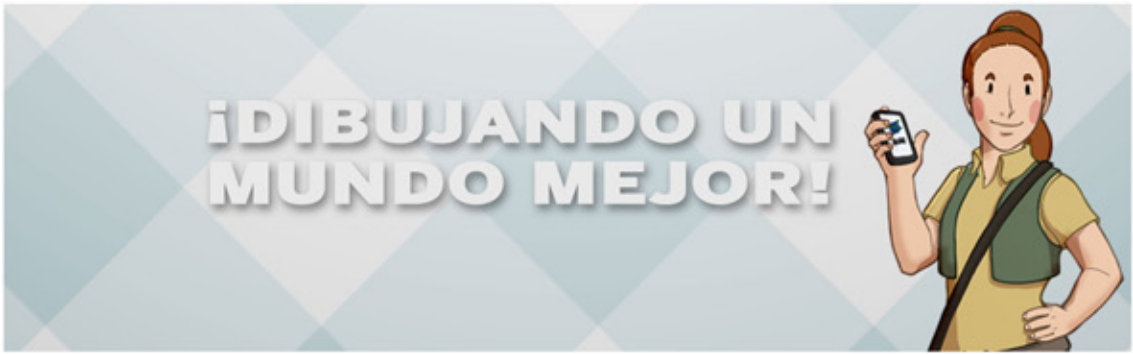
SAWBO siempre está buscando voluntarios para traducir sus videos en nuevos idiomas para que más gente tenga acceso a ellos.



Me pondré en contacto con SAWBO para ver si puedo ayudarles en la traducción de más videos. Creo que esto ayudará mucho a nuestra comunidad.



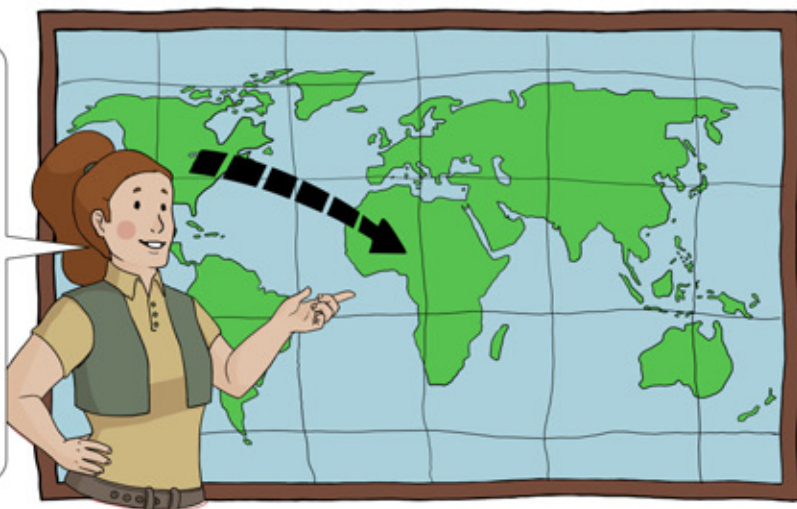
La aplicación de SAWBO fue muy útil para compartir conocimientos con muchas de las aldeas que he visitado. ¡Mi semana ha terminado! El tiempo ha pasado muy rápido. Todo el mundo fue encantador y aprendí mucho. Me alegro de haber podido compartir información útil e importante con cada uno de los que he conocido, la aplicación facilita mucho compartirla. Bueno, es hora de irme y continuar con mis aventuras. Nos vemos en próxima vez ...



¡DIBUJANDO UN MUNDO MEJOR!

ESPAÑOL

Olá! Meu nome é Jane. Trabalho globalmente como voluntária e participante de programas educacionais para ajudar as pessoas em suas comunidades. Esta semana, estou a visitar um país de África, e eu quero deixar para trás informações que podem ajudar as pessoas. Com a ajuda do aplicativo (ap) implantador do SAWBO, eu posso partilhar informações úteis com as pessoas nos lugares que eu visito.



Estou animada para ver a Dr. Louise e conversar com ela sobre sua agência de governo.



Mais tarde, no escritório do Dr. Louise...



Olá, Dr. Louise!



Olá, Jane! É bom ver você. Eu tenho algo importante por discutir com você.

Como você sabe, a nossa agência ajuda a trazer informações práticas a pessoas em nossa comunidade.



No entanto, o orçamento para o nosso programa é limitado.



Eu tenho uma solução para isso! Deixe-me mostrar-lhe...



...o aplicativo (Ap) implantador do SAWBO.

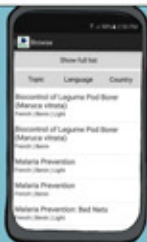


O aplicativo (Ap) implantador do SAWBO? O que é isso?

É um aplicativo gratuito que você pode instalar em seu dispositivo móvel para muitas animações educacionais do acesso SAWBO! Com este aplicativo (Ap), você pode implantar muitas animações para muita gente em línguas que eles vão entender. Deixe-me mostrar-lhe como instalá-lo.



Agora você pode baixar estas animações para partilhar com outras pessoas na comunidade.



Você vai me ajudar a partilhar isto com minha equipe?

Claro!

Obrigado a todos por terem vindo. Jane e eu temos algo importante para vos mostrar.

Este é o aplicativo (Ap) implantador do SAWBO e vai ajudar muito com os nossos programas educacionais na nossa comunidade.

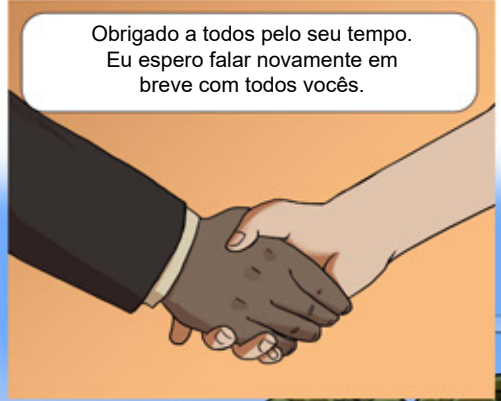
Animações do SAWBO são gratuitas para baixar e utilizar, assim você não precisa se preocupar com o seu orçamento.

Podemos usar animações do SAWBO gratuitamente para fins educacionais.

Este aplicativo é ótimo! Eu vou baixar animações de micro-finanças para partilhar com outros em nosso programa.



Obrigado a todos pelo seu tempo. Eu espero falar novamente em breve com todos vocês.



Eu estou fora para ver o meu colaborador, Wendy, na aldeia.



PORTUGUÊS



Olá, Jane. Bem-vinda a minha aldeia!

Olá, Wendy.



É ótimo estar aqui, mas porquê há muitos mosquitos? Eles podem transportar doenças ameaçando a vida.



Isto é muito preocupante.



Foi ótimo trabalhar com todos, no entanto, estou a correr contra o tempo. Eu gostaria de ficar mais tempo e trabalhar com mais pessoas.

Olá Jane! Meu nome é Ethan. Eu estava a assistir você a ajudar a aldeia do Wendy. Eu quero saber se você poderia me ajudar com a minha ONG?

Claro. Com o que eu posso te ajudar?

Vejo que você tem um smartphone. Deixe-me mostrar-lhe o aplicativo (Ap) implantador do SAWBO.

Bem, minha ONG local ajuda as pessoas na minha comunidade. Infelizmente, eu não posso pagar materiais educativos.

Este aplicativo (Ap) lhe dá acesso a todos os vídeos do SAWBO em línguas diferentes e você pode usar essas animações em sua comunidade. Eles são gratuitos para uso educacional.

O aplicativo (Ap) e vídeos podem ser compartilhados através de Bluetooth.®

Isso é muito útil. Quando eu estiver ligado ao Acesso Wi-fi Gratuito, vou baixar outros vídeos que preciso.

Obrigado Jane! Vejo você por aí.

Adeus Ethan!

Olá, todos. Eu gostaria de mostrar-lhes o aplicativo do SAWBO. Com isso, podemos aprender como melhorar a qualidade de culturas e evitar a nossa perda de grãos por causa de pragas e deterioração.



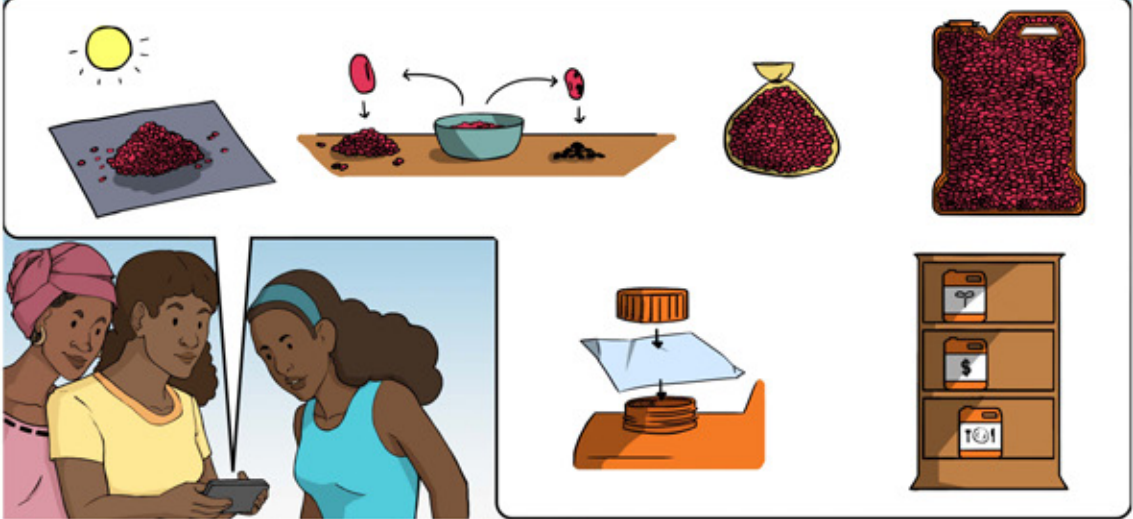
Este vídeo demonstra o armazenamento adequado de feijão para comer, plantar ou vender usando recipientes de plástico disponíveis localmente.



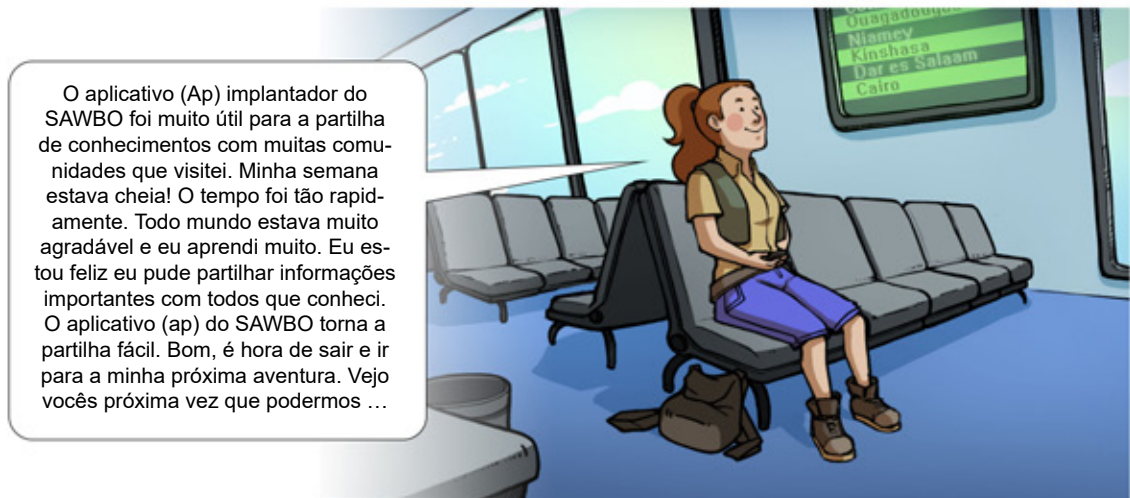
Eu posso partilhar isso com quem tem um celular que tem Bluetooth® e capaz de ler vídeo.



Ótimo, Ethan. Vamos começar.



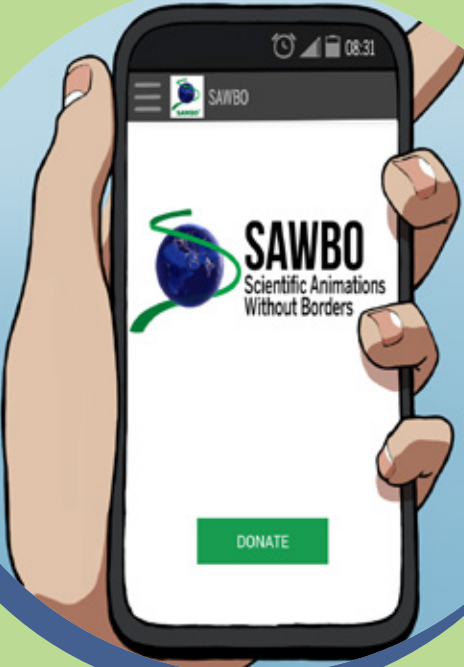
PORTUGUÊS



PORTUGUÊS



SAWBO DEPLOYER APP



This is the App that Jane, Dr. Louise, and Ethan are using.

The SAWBO Deployer App is FREE for you to use for educational purposes.

It can be shared between smartphones using Bluetooth.[®]

You can download any combination of SAWBO's animations and share them anytime you want with whomever you want.

SAWBO animations are highly effective in transmitting knowledge in local languages.

They can be used for FREE as part of your educational programs.

Download at sawbo-animations.org/app.



contact@sawbo-animations.org



SAWBO'S EXTENSION SYSTEM IN YOUR WALLET



HOLD

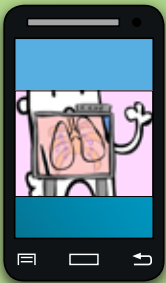


TURN GENTLY

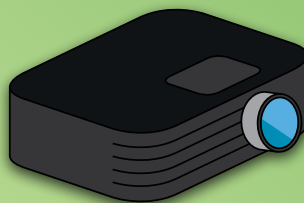


INSERT INTO USB PORT

Save animations onto your computer.



Transfer them onto cell phones.



Project them for showings in your community.



Share with other people from your computer.

SAWBO IN ACTION



At the bottom of this page is your new *Extension System in Your Wallet* from the Scientific Animations Without Borders™ (SAWBO™) team or the email address where you can request one.

SAWBO™ is a Michigan State University-based program focused on creating educational content in local languages for the approximately one billion low-literate learners around the world.

The Extension System in Your Wallet is a credit-card-shaped USB drive and contains up to 16GB of SAWBO™ videos that can be played on computers, cell phones, and other video-capable, electronic devices. An extra 4GB is available on the drive for you to transfer and share your own files. Thus, you can keep both your files and our videos in your wallet. All we ask is that you give SAWBO™ videos to people you meet, who can use them in their educational programs.

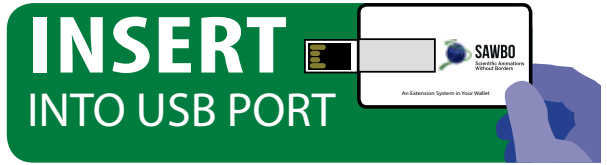
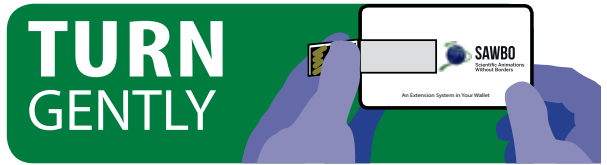
Simply copy these videos from this USB drive onto your or their computer(s). These educational videos can be freely distributed for educational purposes only.*

More SAWBO™ videos can be found and downloaded at sawbo-animations.org.

SAWBO™ distributes these videos based on the donations it receives.

The Extension System in Your Wallet is free for you; however, if you would like others to have such a card, please donate to SAWBO™ at sawbo-animations.org/donate.

Donating to SAWBO™ will bring more videos to more people. For more information, please contact SAWBO™ at contact@sawbo-animations.org.



Contact us at
contact@sawbo-animations.org
to get your free USB card.



*Please see the "Disclaimer.pdf" document on this USB drive for details.

SAWBO ANIMATIONS

Available on the SAWBO Deployer App and on the Extension System in Your Wallet.



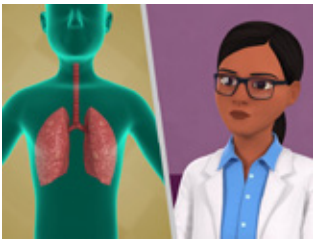
CHARCOAL WATER FILTRATION

This animation explains the process of developing charcoal filtration systems using sand. It is a simple process that helps to remove many, though not all, pollutants in water that can cause health problems.



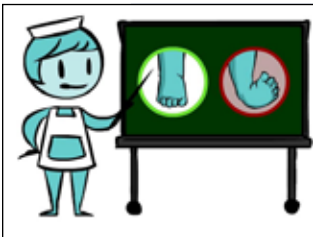
CHOLERA PREVENTION

Cholera is an intestinal infection caused by bacteria. The main symptoms of this disease are diarrhea and vomiting. In these animations, we describe several techniques that can be used to help prevent cholera.



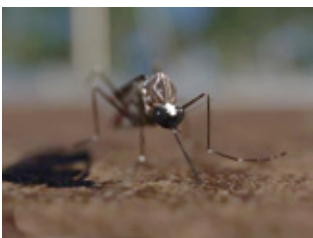
CANCER PREVENTION

We have animations about colorectal and lung cancer prevention that focus on preventive measures and screening for these diseases.



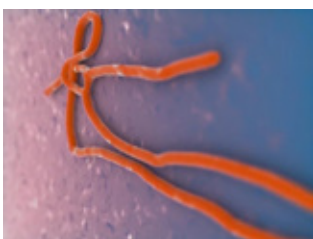
CORRECTING CLUBFOOT: THE PONSETI METHOD

Clubfoot is a congenital deformity that involves one foot or both. It is treatable through the Ponseti Method. In this animation, the Ponseti Method is explained in a way to help parents understand and implement the process.



DENGUE PREVENTION

Dengue is a disease caused by a virus that is transmitted through the bite of some mosquitoes. These animations describe Dengue transmission, infection, and the different symptoms associated with this disease; they also illustrate several preventive measures to avoid being bitten by the disease-carrying mosquitoes.



EBOLA PREVENTION

Ebola is a life-threatening disease caused by the Ebola virus. These animations provide information on the symptoms of Ebola, how it spreads, and how we can help stop it from spreading.



HEALTHY EATING

Healthy eating helps children and their parents live healthy lives. This animation focuses on three ways to be healthy: eating vegetables, drinking water, and eating healthy fats.



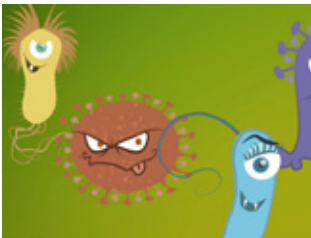
HOW TO WASH YOUR HANDS

Washing hands is the best way to prevent the spread of germs and diseases. Dirty hands can carry pathogenic germs that can sicken a person or spread diseases to others. This animation describes the importance of handwashing.



MALARIA PREVENTION

Malaria is a disease caused by a parasite that is transmitted through the bite of some mosquitoes. These animations illustrate several important preventive measures to avoid being bitten by the malaria mosquito.



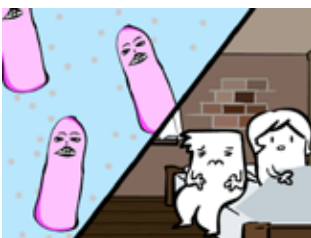
PREVENTING SICKNESS

This animation contains a basic overview of microbial disease transmission and basic ways to minimize it.



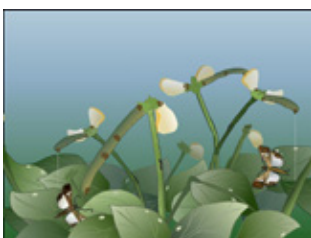
THE ZIKA VIRUS

Zika is a disease caused by a particular flavivirus transmitted through the bite of some mosquitoes. This animation describes the transmission of the disease and illustrates several important preventive measures you can take to avoid disease transmission.



TUBERCULOSIS PREVENTION

Tuberculosis is a common infection and contagious disease caused by a bacterium that usually lodges in the lungs. These animations illustrate preventive measures to protect yourself and others from contracting this disease.



BIOCONTROL OF LEGUME POD BORER

The Legume pod borer causes significant damage to cowpeas in West Africa. This animation explains and illustrates the use of biological control agents to help minimize pod borer populations in cowpea fields.



NATURAL INSECTICIDES FROM NEEM SEEDS

Naturally occurring insecticidal compounds can be extracted from neem seeds and sprayed onto crops to prevent insect pest damage. This animation explains how to prepare the solution for spraying on the crops.



POSTHARVEST LOSS: STORAGE

These animations explain the best practices for storing bags of grain for consumption, sale, or future planting. We discuss multiple techniques for proper storage.



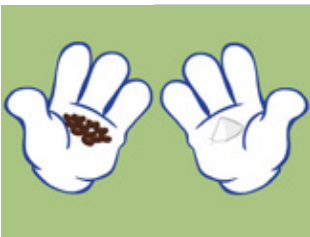
POSTHARVEST LOSS: GRAIN TRANSPORTATION

These animations explain the best practices for transporting grain, either in bulk or in bags. In these animations, we cover preparation for transportation and the potential hazards during the transportation of grain.



POSTHARVEST LOSS: GRAIN DRYING

These animations show how to build and operate a solar grain dryer. We then discuss why you should dry your grain before storage.



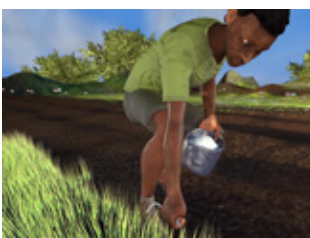
POSTHARVEST LOSS: SALT TESTING

These animations show the proper technique to test your grain, seeds, or beans for low moisture content using salt.



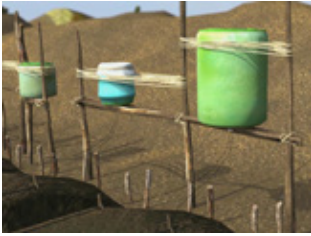
POSTHARVEST LOSS: ECONOMICS

These animations explain economic concepts that relate to post-harvest loss. We talk about supply and demand and agriculture value chains.



TEFF: ROW PLANTING AND TRANSPLANTING

These animations show the proper techniques for row planting teff grass. They also explain how to transplant a teff crop to a new field.



SURVIVAL GARDENING

These animations show multiple techniques for planting crops in harsher climates. We show how to create compost, raised planting beds to avoid flooding, and drip irrigation systems for areas that experience drought.



SHEA BUTTER PROCESSING

Shea is an important product for women in the shea belt, which ranges from Senegal in West Africa to Ethiopia in East Africa. This animation demonstrates how raw shea nuts can be processed to produce better quality shea nuts for storage, which results in the production of better quality shea butter.



MICROFINANCE

This series of six animations describes how to create a savings group within your community. This process includes steps on how to elect leaders of the group, hold meetings, and efficiently save money together for purchases that will benefit the entire group.



FINANCIAL SCAMS

This animation describes financial scams. It discusses several ways by which you can help protect yourself and your money from monetary scams and avoid becoming a victim.



RESETTLEMENT GUIDE FOR PEOPLE IMPACTED BY DAM DEVELOPMENT

When the government gives someone permission to use your land or natural resources, which requires you to leave your land, you have the right to fair compensation to cover your losses. When you are moved to a new home or location, this is called *resettlement*.

OTHER SAWBO ANIMATIONS INCLUDE...

- How to Use a Metered Dose Inhaler
- Prevention of Chagas Disease
- Prevention of Yellow Fever
- Prevention of West Nile Virus
- Sickle Cell Disease
- Cooking with Soy
- Solar Treating of Cowpea Seeds
- How to Remove the Poison from Cassava Flour

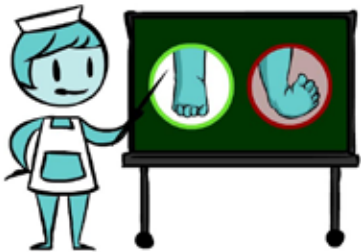
AND MORE!

SAWBO'S ANIMATIONS ARE USED IN EDUCATIONAL PROGRAMS AROUND THE WORLD



HIGHLY ACCURATE CONTENT AVAILABLE IN MORE THAN 100 LANGUAGES

New languages can be added through online collaborations.



A HIGHLY EFFECTIVE EDUCATIONAL TOOL

Studies on learning gains (see figure, right), through a collaborative research project with the International Institute for Tropical Agriculture in Benin, revealed that audiences learned significantly more from SAWBO animations (see point c) than from traditional extension presentations (see point b) on the same topic ($p < 0.05^*$).

Bello-Bravo, et al. (2017). An assessment of learning gains from educational animated videos versus traditional extension presentations among farmers in Benin. *Information Technology for Development*, doi: 10.1080/02681102.2017.

Scientific Animations Without Borders (SAWBO) transforms expert knowledge into educational animations that are translated into multiple languages from around the world. We use a rigorous co-creation and review process to create highly accurate content.

GLOBAL EXPERT CONTRIBUTORS HAVE INCLUDED PEOPLE FROM

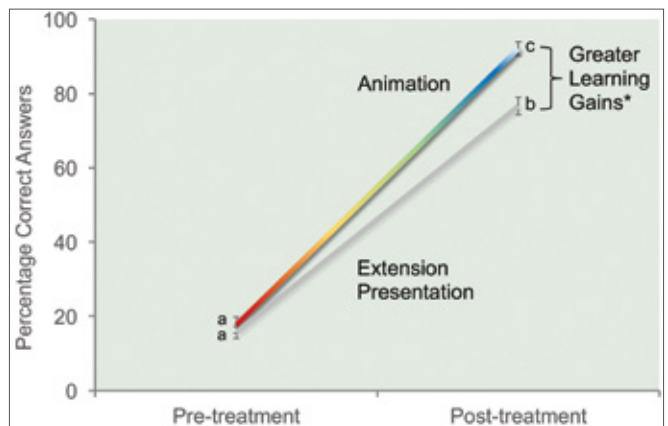
- Global health organizations
- Government ministries from around the world
- University-based experts
- National agricultural research programs
- International crop research centers
- Medically and agriculturally oriented NGOs

SAWBO ANIMATIONS ARE

- Understandable by people of all literacy levels
- Easily accessible through SAWBO's online and offline platforms
- Given out freely to any individuals or groups using them for educational purposes only
- Shared on cell phones, tablets, laptops, or TV broadcasts
- Created through externally funded grants, private foundation support, and donations

SAWBO IS A RESEARCH DRIVEN PROGRAM THAT

- Collaborates with numerous global partners and scholars
- Tests the effectiveness of content
- Analyzes novel and sustainable deployment pathways
- Publishes outcomes in peer-reviewed academic journals



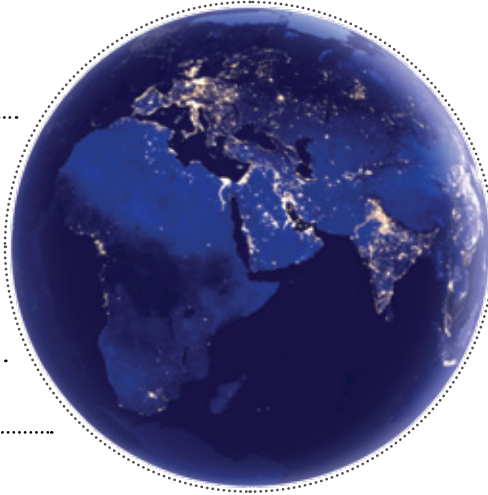
A GLOBAL SUPPLIER OF SCALABLE EDUCATIONAL CONTENT FOR ALL LITERACY LEVELS

SAWBO is a free educational resource used around the world.

SAWBO works with global experts to assure the accuracy of its content. We have a growing library (in both topics and languages). We make all content easily available for global educators, and the animations can be scaled in a cost-effective manner.

USERS/EXPERT CONTRIBUTORS

- International Agencies
- Medical Institutions
- TV Stations
- Ministries of Health
- Non-Governmental Organizations (NGOs)
- Global Volunteers



ANIMATION TOPICS

- Diverse Agricultural Subjects
- Women's Empowerment
- Sustainable Devices
- Value Chains
- Preventing Postharvest Loss
- Disease Prevention and Treatment

HOW TO ACCESS AND USE SAWBO ANIMATIONS

Watch and download our animations at sawbo-animations.org.

Integrate SAWBO animations into your existing educational programs.

Download and use the SAWBO Deployer Android App (sawbo-animations.org).

Share the animations with individuals, groups, organizations, or TV stations for their use.

Ask SAWBO for an Extension System in Your Wallet to store and share our animations.

Need an existing SAWBO animation in a new language? Contact us and we can collaborate to translate the animation.

TELL US HOW YOU HAVE USED OUR ANIMATIONS AND WE MAY FEATURE YOU IN OUR MONTHLY NEWSLETTER!

EMAIL US AT
contact@sawbo-animations.org

VISIT US AT
sawbo-animations.org
youtube.com/user/SAWBOsm
facebook.com/SAWBOsm
twitter.com/sawbosm



Women in Niger watching a SAWBO animation in their local language (Hausa).

SAWBO PUBLICATIONS

- Bello-Bravo, J., Tamò, M., Dannon, E. A. & Pittendrigh, B. R. (2017). An assessment of learning gains from educational animated videos versus traditional extension presentations among farmers in Benin. *Information Technology for Development* doi: 10.1080/02681102.2017.
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- Bello-Bravo, J., Olana, G. W. & Pittendrigh, B. R. (2015). A pilot study using educational animations as a way to improve farmers' agricultural practices and health around Adama, Ethiopia. *Information Technologies & International Development* 11(3): 23-37.
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- Bello-Bravo, J., Lovett, P. N. & Pittendrigh, B. R. (2015). The evolution of shea butter's "Paradox of paradox" and the potential opportunity for information and communication technology (ICT) to improve quality, market access and women's livelihoods across rural Africa. *Sustainability*, 7: 5752-5772. doi:10.3390/su7055752
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- Bello-Bravo, J., Olana, G. W., Enyadne, L. G. & Pittendrigh, B. R. (2013). Scientific Animations Without Borders and communities of practice: promotion and pilot deployment of educational materials for low-literate learners around Adama (Ethiopia) by Adama Science and Technology University. *The Electronic Journal of Information Systems in Developing Countries* 56(4): 1-11.
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- Bello-Bravo, J., Dannon, E., Agunbiade, T., Tamò, M. & Pittendrigh, B. R. (2013). The prospect of animated videos in agriculture and health: a case study in Benin. *International Journal of Education and Development Using Information and Communication Technology* 9(3): 4-16.
- Bello-Bravo, J. & Baoua, I. (2012). Animated videos as a learning tool in developing nations - a pilot of three animations in maradi and surrounding areas in Niger. *The Electronic Journal of Information Systems in Developing Countries* 55(6): 1-12.
- Bello-Bravo, J. & Pittendrigh, B. R. (2012). Scientific Animations Without Borders: a new approach to capture, preserve and share indigenous knowledge. *Journal of the World Universities Forum* 5(2): 11-20.
- Bello-Bravo, J., Seufferheld, F., Steele, L. D., Agunbiade, T. A., Guillot, D., Cutz, G. & Pittendrigh, B. R. (2011). Scientific Animations Without BordersSM: An international collaborative approach for building scientific educational materials for use on cell phones and the internet in developing nations. *The International Journal of Science in Society* 2(4): 49-62.

ABOUT THE SAWBO SYSTEM

SAWBO is an expert-to-end-user video-production system designed to present state-of-the-art scientific material to people in situations that make access to such information otherwise challenging. SAWBO works with global content experts to create animated narratives on practical scientific concepts using accessible language and video technology. These animations are then placed onto SAWBO's online library, with additional language voice-overs added by volunteers as needed by new user groups. The SAWBO app allows anyone, regardless of geographical location or educational level, to access SAWBO's online library. Anyone can use the apps, either individually or in development programs, scaling them as needed to create useful impact in a cost-effective manner.



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Images and photos have been taken and in some cases modified from previous work done by other people who have worked for or donated these materials to SAWBO. We appreciate all of these individuals, who are too numerous to mention in this space.

SAWBO CO-DIRECTORS



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