

Scientific Animations Without Borders (SAWBO) addressing Postharvest Loss Mitigation using SAWBO Deployer App

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U N I V E R S I T Y

The problem

- Most farmers lack access to good information that would help them mitigate postharvest loss
- New information and communication technologies (ICTs) offer innovative ways to reach farmers
- One approach is “Scientific Animations Without Borders (SAWBO) <http://sawbo-animations.org> a system to create educational materials in a form of animations translated into local languages and deploy through mobile phones as an alternative method to reach farmers

One example on how to mitigate postharvest loss: Jerrican storage technique



Why this approach?

- Usually extension agents are in short supply and they often lack resources to travel extensively.
- Extension agents know local conditions and people, and can adapt message to them
- Extension agents have access to smartphones and they can download educational materials to use in their educational programs

Findings from SAWBO

- Video Animation in local language.
 - Very effective in getting attention and creating excitement about message.
 - Excellent for illiterate women.
 - Requires tablet, pico projector/smartphone, etc.
 - Best for situations where there is a general message that can be shared in many countries/languages
 - SAWBO scientific validity information is a plus

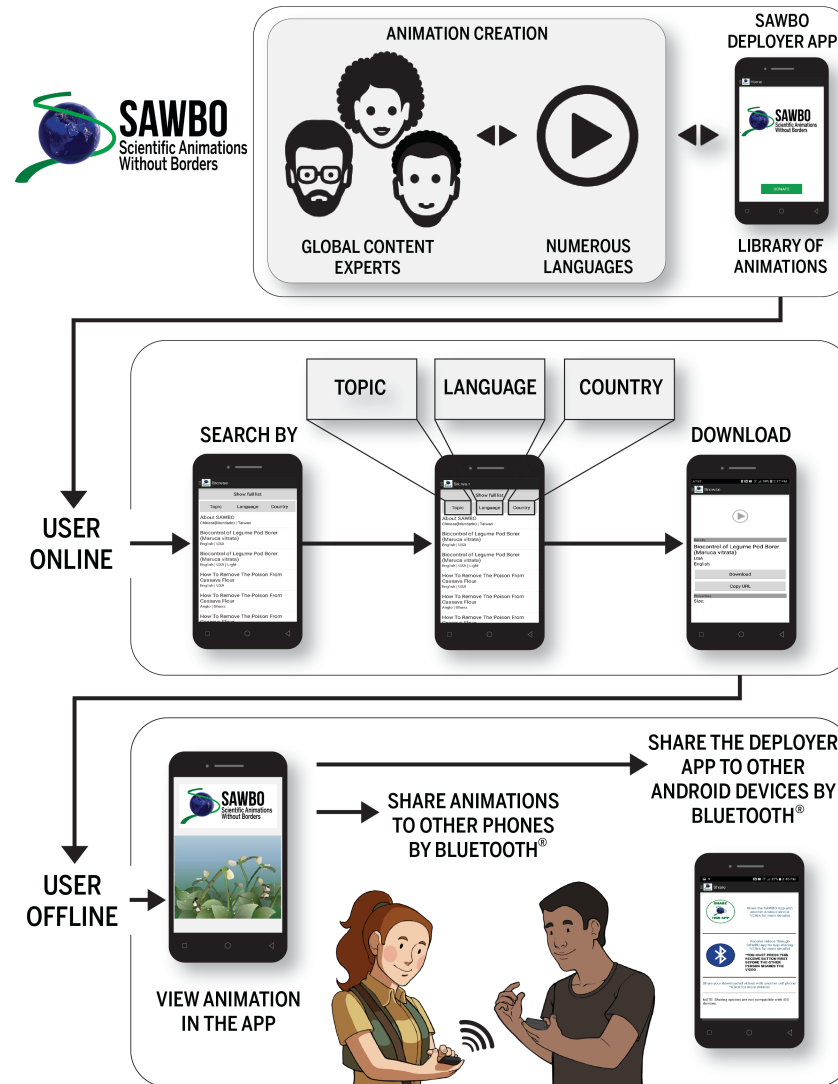
PHL Prevention Animations Currently Available

- PHL moisture meter
- Proper storage of grains
- Bag stacking
- Bag and bulk transportation of grain
- Jerrican storage of grains
- How to build and use solar grain dryers
- Salt testing for grain moisture
- Why proper PHL prevention is important in the value chain
- All can be downloaded at <http://sawbo-animations.org>
- Currently creating more animations into 2018 (DICE, Mycotoxins, and grain drying system created in Bangladesh)

Downloading and using the animations

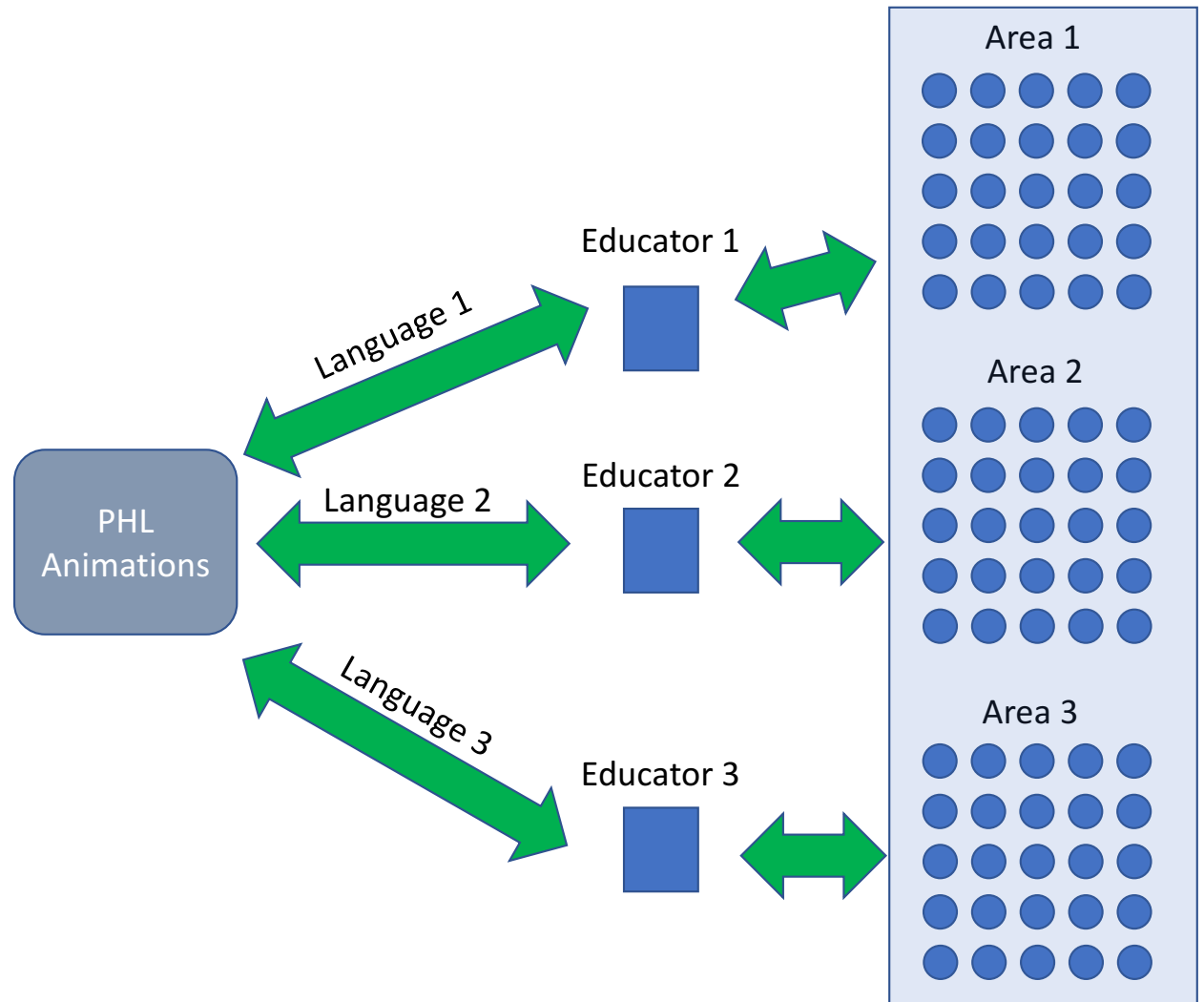
- USB cards contain these animations
- Download and use from the SAWBO library website
- **Use the SAWBO Deployer 1.1.1 Application for Android devices**
 - Allows you you download the animations from the Internet
 - They are then sitting on your phone
 - You can share with others in the field

SAWBO DEPLOYER APP SYSTEM

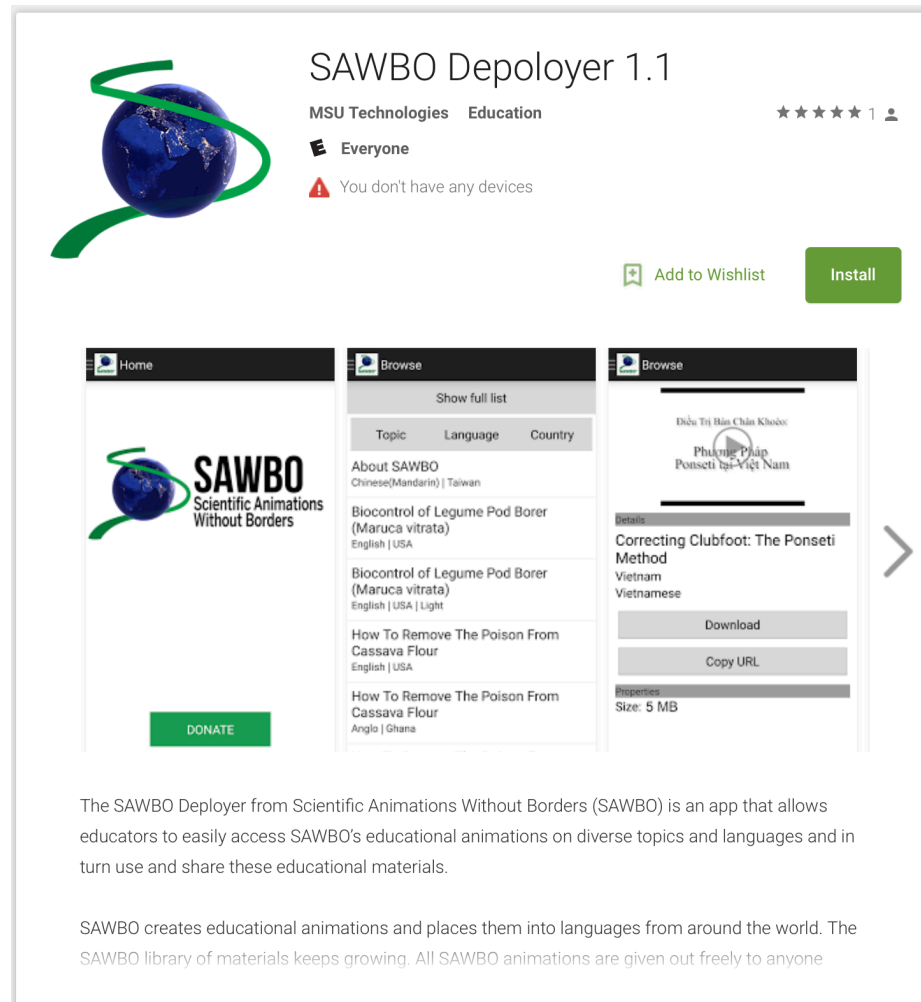




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Download the SAWBO App for Android devices on Google Play (FREE)



SAWBO Depoloyer 1.1
MSU Technologies Education ★★★★★ 1
Everyone
You don't have any devices

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SAWBO Scientific Animations Without Borders
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Topic	Language	Country
About SAWBO	Chinese(Mandarin)	Taiwan
Biocontrol of Legume Pod Borer (Maruca vitrata)	English	USA
Biocontrol of Legume Pod Borer (Maruca vitrata)	English	USA Light
How To Remove The Poison From Cassava Flour	English	USA
How To Remove The Poison From Cassava Flour	Anglo	Ghana

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Details
Correcting Clubfoot: The Ponseti Method
Vietnam
Vietnamese

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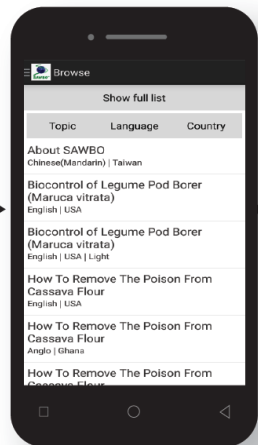
Properties
Size: 5 MB

The SAWBO Deployer from Scientific Animations Without Borders (SAWBO) is an app that allows educators to easily access SAWBO's educational animations on diverse topics and languages and in turn use and share these educational materials.

SAWBO creates educational animations and places them into languages from around the world. The SAWBO library of materials keeps growing. All SAWBO animations are given out freely to anyone

**USER
ONLINE**

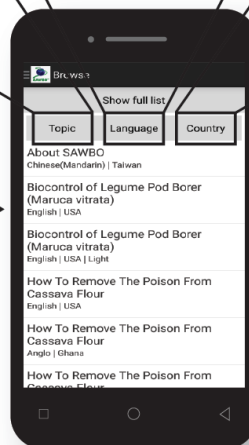
SEARCH BY



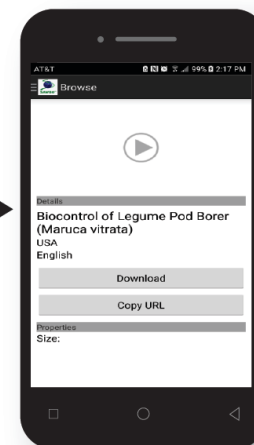
TOPIC

LANGUAGE

COUNTRY



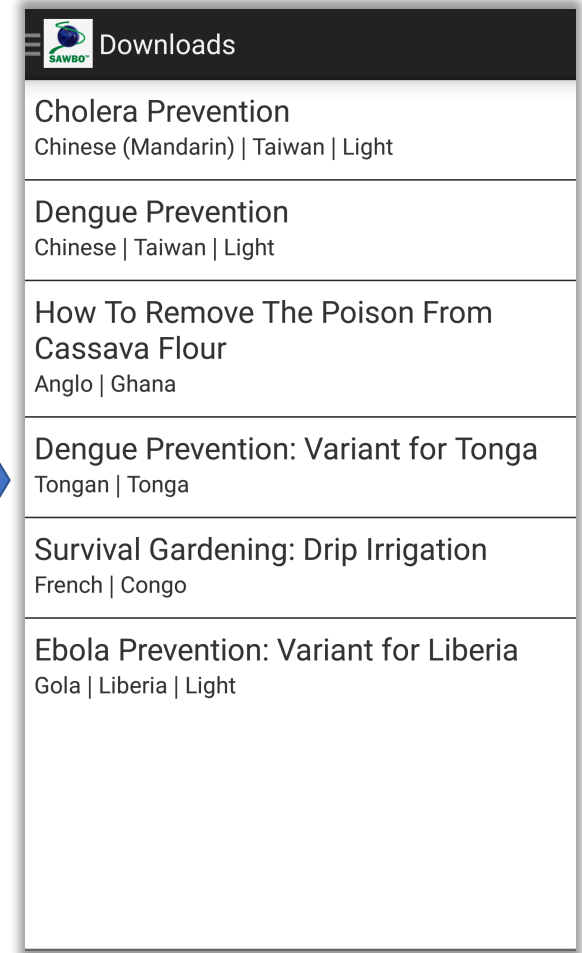
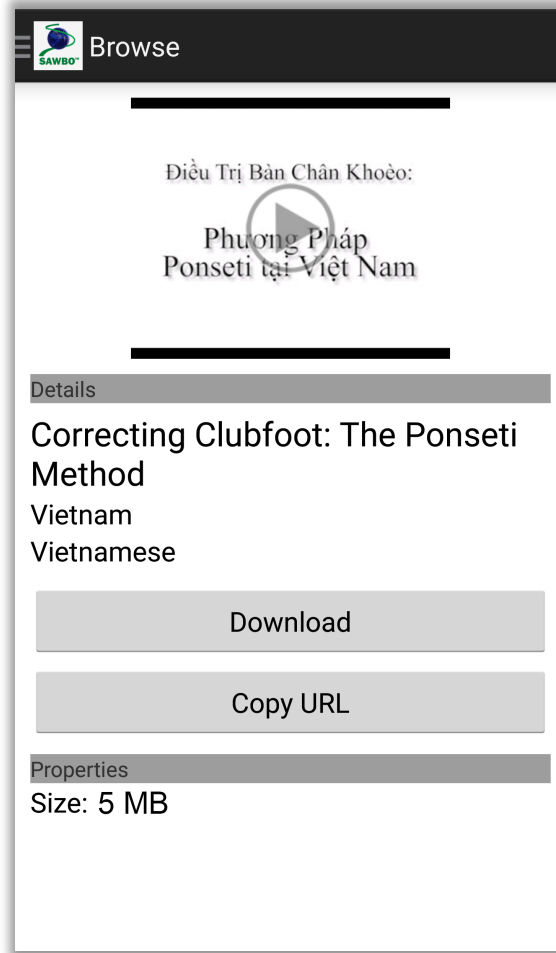
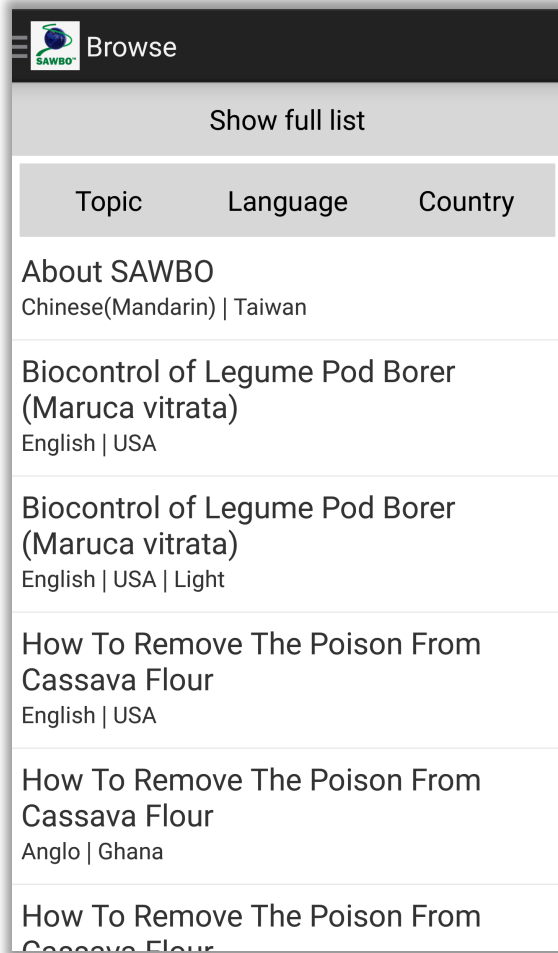
DOWNLOAD

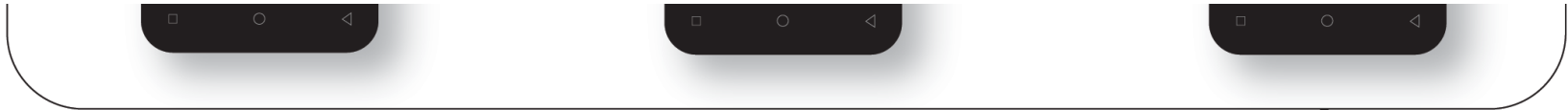


**SHARE THE DEPLOYER
APP TO OTHER**

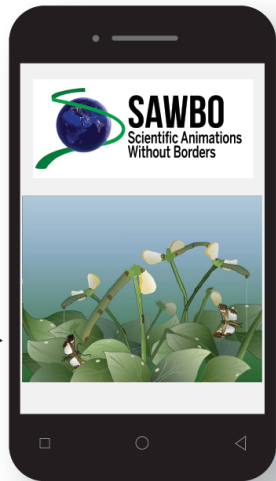


Using the SAWBO App





**USER
OFFLINE**

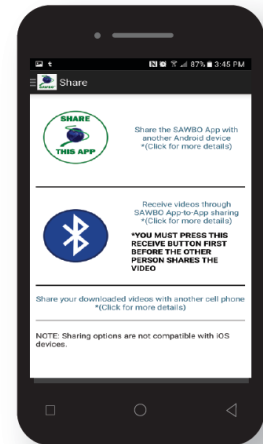


**VIEW ANIMATION
IN THE APP**

**SHARE ANIMATIONS
TO OTHER PHONES
BY BLUETOOTH®**

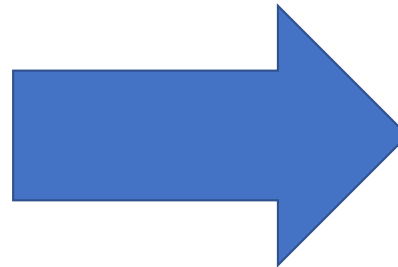


**SHARE THE DEPLOYER
APP TO OTHER
ANDROID DEVICES BY
BLUETOOTH®**

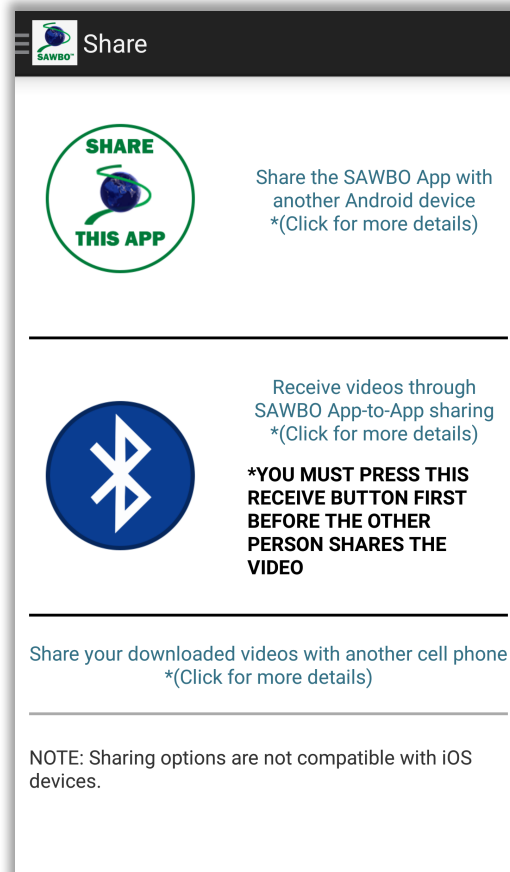


Viewing on the App in the field (offline)

 Downloads
Cholera Prevention Chinese (Mandarin) Taiwan Light
Dengue Prevention Chinese Taiwan Light
How To Remove The Poison From Cassava Flour Anglo Ghana
Dengue Prevention: Variant for Tonga Tongan Tonga
Survival Gardening: Drip Irrigation French Congo
Ebola Prevention: Variant for Liberia Gola Liberia Light



Share the animations or the App onto other's phones



- Animations can be shared to phone that is video and Bluetooth® capable
- The SAWBO Deployer App can be shared by Bluetooth® to another Android device

Free YouTube SAWBO Deployer App Training Sessions

1. **Overall Training** - <https://www.youtube.com/watch?v=KAtFqiMm-QE>
2. **About the SAWBO App** - <https://www.youtube.com/watch?v=U3BY2QxIIC0&list=PLmTwTd7uI8WM2elbg61z7zkmxjl4R9Zts>
3. **Downloading the App from Google Play** - <https://www.youtube.com/watch?v=gbLV0GJ346s&index=2&list=PLmTwTd7uI8WM2elbg61z7zkmxjl4R9Zts>
4. **Browsing, Viewing, and Downloading Animations** - <https://www.youtube.com/watch?v=JFKrdoFxl4&t=1s>
5. **Sharing Animations via Bluetooth** - <https://www.youtube.com/watch?v=wXMXBPfwOl4&list=PLmTwTd7uI8WM2elbg61z7zkmxjl4R9Zts&index=4>
6. **Sharing Animations via the SAWBO Deployer App** - <https://www.youtube.com/watch?v=saOrvC3uicw&t=12s>
7. **Sharing the SAWBO App** - <https://www.youtube.com/watch?v=7aSbJApoijM>
8. **More Information** - <https://www.youtube.com/watch?v=qvGbBeNRSxs&index=7&list=PLmTwTd7uI8WM2elbg61z7zkmxjl4R9Zts>

Thank you!