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Enhancing Farmer Training Through Animated Videos on Smartphones:

A Scalable, Cost-Effective Solution for Agricultural Extension in Southern Africa

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Outline

- 1. The Agricultural Extension Challenge
- 2. Why Traditional Extension Methods Struggle
- 3. The Mobile Revolution in Southern Africa
- 4. Animated Videos as a Game-Changer
- 5. Evidence from Across Africa
- 6. What is SAWBO
- 7. The SAWBO Approach?
- 8. The Current State of SAWBO
- 9. Partnership with CCARDESA
- 10. Policy Recommendations





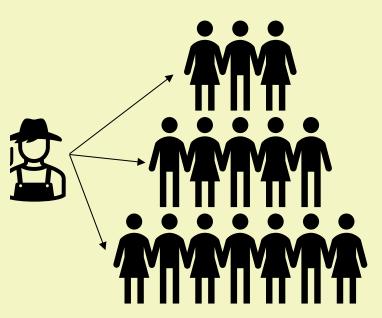












- Agricultural extension services in Southern Africa face severe challenges:
 - Underfunding, understaffing, and outdated methods
 - Government, NGOs, and private sector act in silos
 - Agent-to-farmer ratios range from 3,000:1 to 10,000:1
- Farmers lack access to timely, accurate, and effective agricultural knowledge











Why Traditional Extension Methods Struggle

- High cost of face-to-face training
- Low literacy rates limit effectiveness of written materials
- Gender disparities—women farmers often excluded from formal training
- Slow knowledge transfer—information is diluted and distorted over time







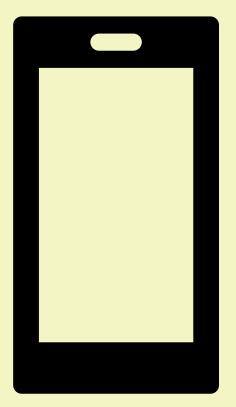












- In the SADC region, as of December 2024:
 - The average mobile penetration rate across SADC member states is approximately 95.2%
 - Meaning, there are about 95 mobile subscriptions per
 100 inhabitants
 - The average internet penetration rate stands at 57.2%
- Growing use of smartphones and social media in rural communities

(SADC ICT Observatory, 2025)













- Scientifically proven, scalable, cost-effective
- Easily translated into local languages
- Visual learning improves knowledge retention
- Can be shared via:
 - Smartphones (WhatsApp, YouTube, SMS links)
 - TV & radio broadcasts
 - Extension agents & NGOs



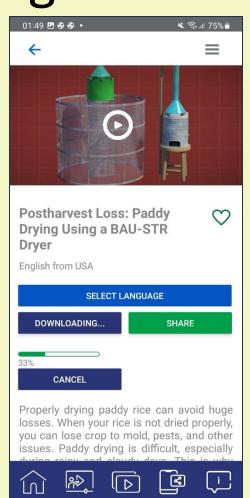














Evidence from Across Africa

- Mozambique: Farmers trained via SAWBO videos had equal or better learning outcomes than those trained by extension agents
- Nigeria: Animated videos increased knowledge retention by 87% compared to text-based training (Bello-Bravo et al., 2018)
- **Kenya:** Use of digital farmer training tools led to a 38% rise in adoption of climate-smart agriculture (USAID, 2022)
- Malawi: Women who accessed agricultural videos via mobile phones increased crop yields by 27% compared to those who relied on word-of-mouth (Medendorp et al., 2022)













What is SAWBO

Global Community of Practice

Led by Professors at Purdue University



Create Content

New Languages

Content Use

Co-learning





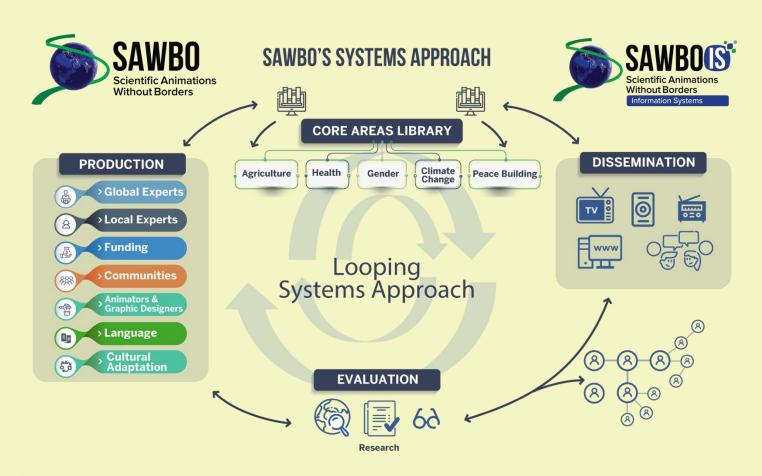








The SAWBO Approach?









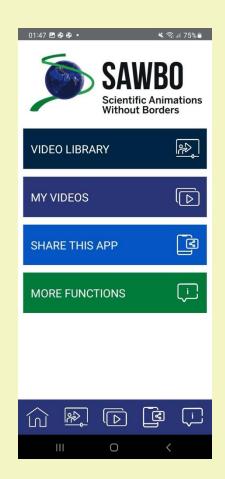


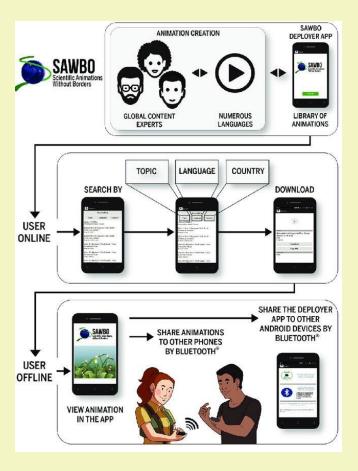






The SAWBO Mobile App



















The Current State of SAWBO









Launched in 2011

Six of the seven continents

With cultural adaptations for certain areas

Over 300 languages & language variants



Over one million reached over three days through YouTube promotions



Low cost per person and highly scalable impact



Global & local experts engaged in co-creation processes



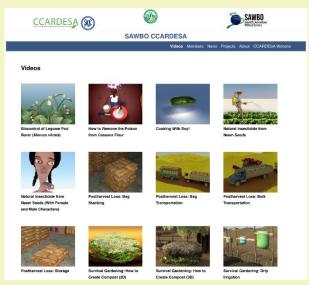








Partnership with CCARDESA





- SAWBO + CCARDESA = Wider dissemination across Southern Africa
- Establish and promote the Regional Online Library of agricultural animated videos with 60+ videos uploaded. DONE
- Set up in-country online library of agricultural animated videos. ONGOING
- Regional workshop on innovative dissemination methods in SA
- Training on digital technology transfer and extension methods in Tanzania and Zambia













Policy Recommendations

A. Promote the Use of Animated Videos for Training

- Evidence-based, cost-effective, and accessible
- **B. Integrate Digital Tools into National Extension Strategies**
- . Hybrid approach: traditional + digital extension
- Localize content for better comprehension
- C. Facilitate Partnerships for Sustainable Implementation
- . Government-NGO-tech sector collaboration
- . Public-private investment in digital extension















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if time permits: https://www.youtube.com/watch?v=bQhuZ2IxCro

Online library: https://ccardesa.sawbo-animations.org











