

# Enhancing Resilience and Adaptive Agricultural Livelihoods in Uganda/Shade Tree Advice Tool

Détenteur(s) de la Solution is **IITA Uganda Climate Smart Agriculture (CSA) Program** et peut être contacté via **iitaugandacomms@gmail.com**

## Résumé

The Shade Tree Advice Smartphone Tool is an ICT solution to advice Coffee and Cocoa Farmers on shade tree selection

## Description Technique

The Shade Tree Advice Tool is based on expert and local farmers' local knowledge of trees in different agro-ecological zones. Through farmer interviews (a minimum of 100 per site) researchers ranked different tree species based on locally perceived key ecosystem services such as the benefits of shade for coffee, timber and fuel wood. The tool was subsequently populated with the trees ranked according to the ecosystem service priorities. The Shade Tree Advice Smartphone tool is designed for Android phones. The tool is designed to offer information accessible to users both online and off-line. The pre-loaded locally specific content gives the user access to best shade tree information. The architecture allows for fast data transfers and maximizes real-time data synchronization between web and mobile devices. The simplicity of the architecture allows for cost effective adaptation and scalability of the application.

## Utilisation

The tool offers smallholder coffee farmers advice on optimal shade tree selection in coffee and cocoa agroforestry systems. The tool provides site-specific recommendations on appropriate tree species via simple graphical displays. The information is targeted towards extension workers and commercial farmers and other decision makers directly involved in sustainable coffee and cocoa agroforestry systems and adaptation to climate change.

## Composition

The Smartphone Application has been populated with data from existing coffee research sites in Uganda in Sironko and Luweero.

## Moyens d'Application

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<b>Agroécologies</b>	Tous les Agroécologies, les Hauts terres.
<b>Régions</b>	l'Afrique de l'Est.
<b>Developed in Countries</b>	l'Ouganda.
<b>Available in</b>	l'Ouganda.
<b>Forme(s) de la Solution</b>	Application Numérique.
<b>Application(s) de la Solution</b>	Variété Améliorée, Gestion de la Fertilité des Sols, Lutte contre les Insectes, Contrôle des Maladies, Gestion des Mauvaises Herbes.
<b>Denrées Agricoles</b>	Autres Cultures Agroforestières.
<b>Bénéficiaires Cibles</b>	les Agriculteurs de Petit Échelle, les Agriculteurs Commerciaux, Autres Prestataires.

## Commercialisation

### Catégorie de Commercialisation

Technologie de gestion avec un potentiel commercial limité

### Exigences de Démarrage

Local knowledge of tree species

### Coût de Production

Not available

### Segmentation de la Clientèle

Small holder coffee farmers reached by extension workers.

**Rentabilité Potentielle**

Not available

**Exigences de Licence**

None

**Solution en tant que Bien Public**

public good

**Solution Images**

# Shade Tree Advice Tool



*Albizia coriaria*

*Spathodea campanulata*



## Names

Name English: Tulip tree

Name Luganda: Kifabakazi

## Growth

size: Large

growth rate: Moderate

years to mature:

grows in sun: Yes

grows in shade: Yes

grows in any soil: Yes





# Shade Tree Advice Tool



About STAT

Rank shade  
trees

Tree library

## Institutions



## Accompanying Solutions

Stepwise Approach