



# Regional Knowledge, Information & Data Capture Guidelines Regional Workshop: CCARDESA Mobile APP- Update **22<sup>nd</sup> November 2021**

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ICKM Officer*



CAADP



# Objectives of the App

- Provide off-line access to knowledge products and technical briefs
- Learning about climate change and agriculture
- Connect stakeholders
- Expand reach to extension officers



# Development Process

- Initial discussions with CCARDESA, ICKM regional community of practice and beyond
- Idea for a mobile app to complement new website and knowledge hub





## INCEPTION & WORKSHOP

In order to develop an app that responds to scope of work and user needs, CCARDESA and GIZ-ACCRA conceived an app development workshop.

1

February 2019

### App Workshop

- Lessons Learned
- Possible functionality
- Development frameworks

June to August 2019

2

## SPECIFICATION

Requirements established in workshop are elaborated into a specification document, and reviewed by CCARDESA and GIZ-ACCRA

## DEVELOPMENT

During this phase the web developer will utilise the Flutter framework to implement the design, information architecture and logic established and approved in the specification document



3

August to September 2019

### App Development

- Mock-ups
- Workflow logic
- App development (Flutter)
- Content integration
- Internal testing



September to October 2019

4

## TESTING

Following internal testing, the beta version of the app will be tested with user groups, including a testing workshop, and testing by an independent partner organisation.



## LAUNCH

Launch of version 1.0 of the app on the Google Play and Apple App Store

5

October 2019

### App Launch

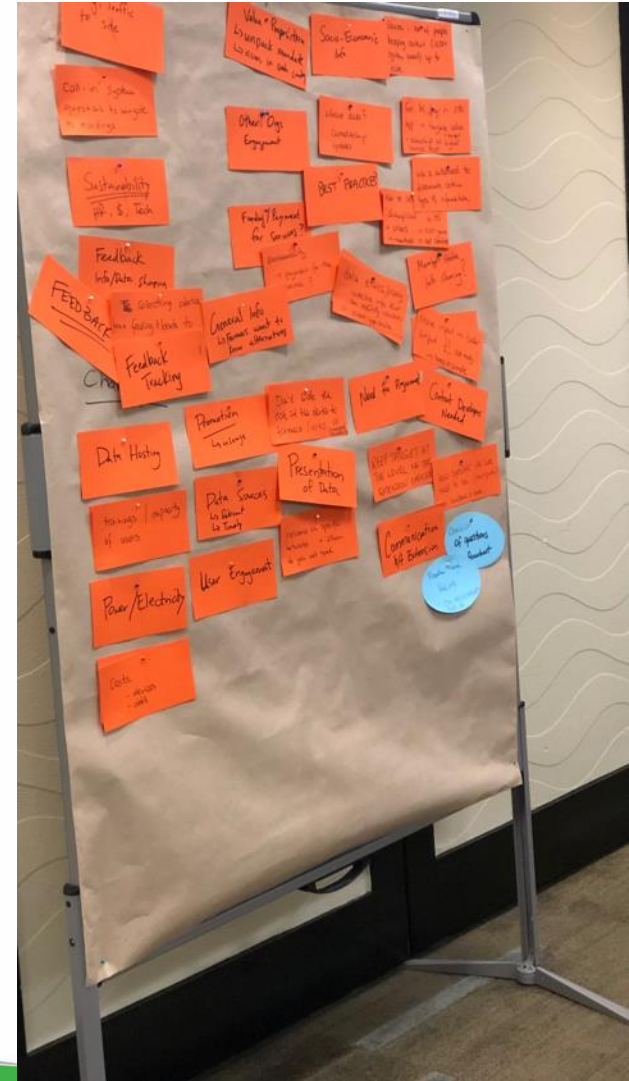
- Publish on Google Play
- Publish on Apple App Store
- News release

# Concept

- Mobile app(lication)
- Android/iOS
- App download & installation
- Content managed from website
- Simple interface
- Faceted search to access KPs/TBs
- Quiz – modules, so new quizzes can be added
- Directory (updated when online)
- Discussion forum (updated when online)

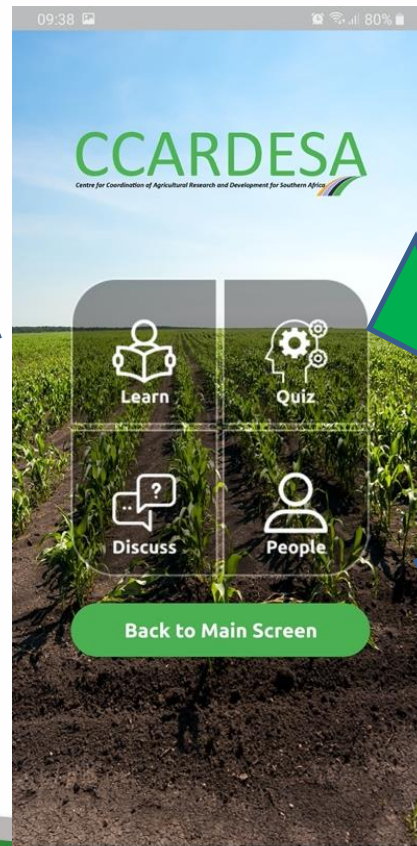
# Functions

- Home page
- KP/TB search/filter system
- Quizzes
- Member Directory
- Discussion forum
- Registration
- Content management



# FUNCTIONS

**Learn**  
Access to  
knowledge  
resources



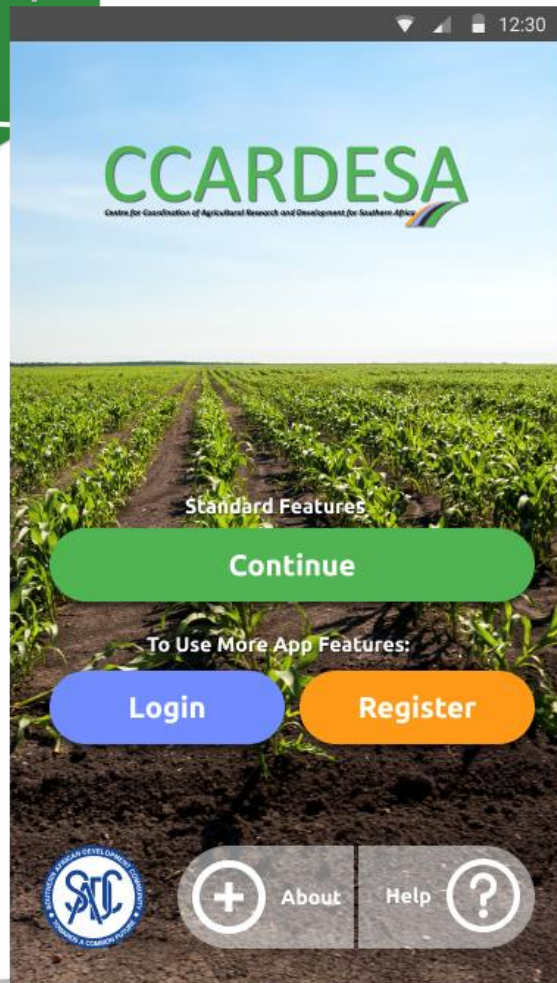
**Quiz**  
Thematic quiz  
access  
Add new quizzes

**Discuss**  
Access to  
an online  
discussion  
forum

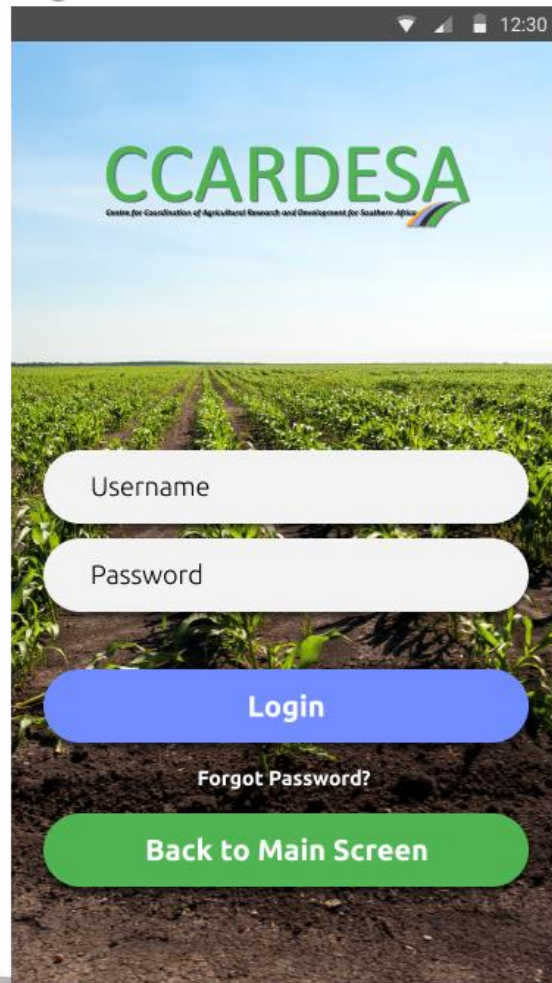
**People**  
Directory of  
stakeholders, with  
contact information  
on 'share-alike' basis

# Main Screen

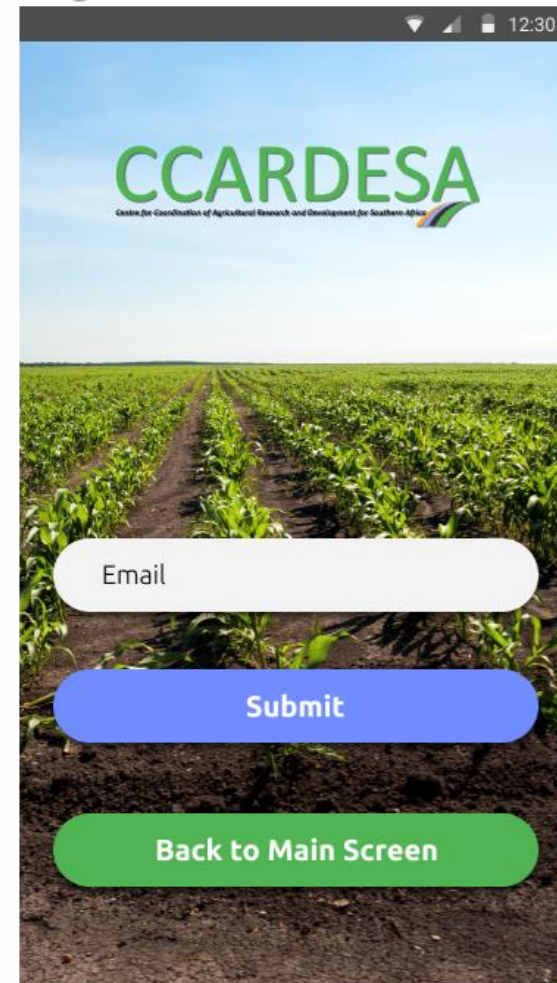
Splash



Login



Forgot Password



CAADP



CCARDESA  
Centre for Coordination of Agricultural Research and Development for Southern Africa

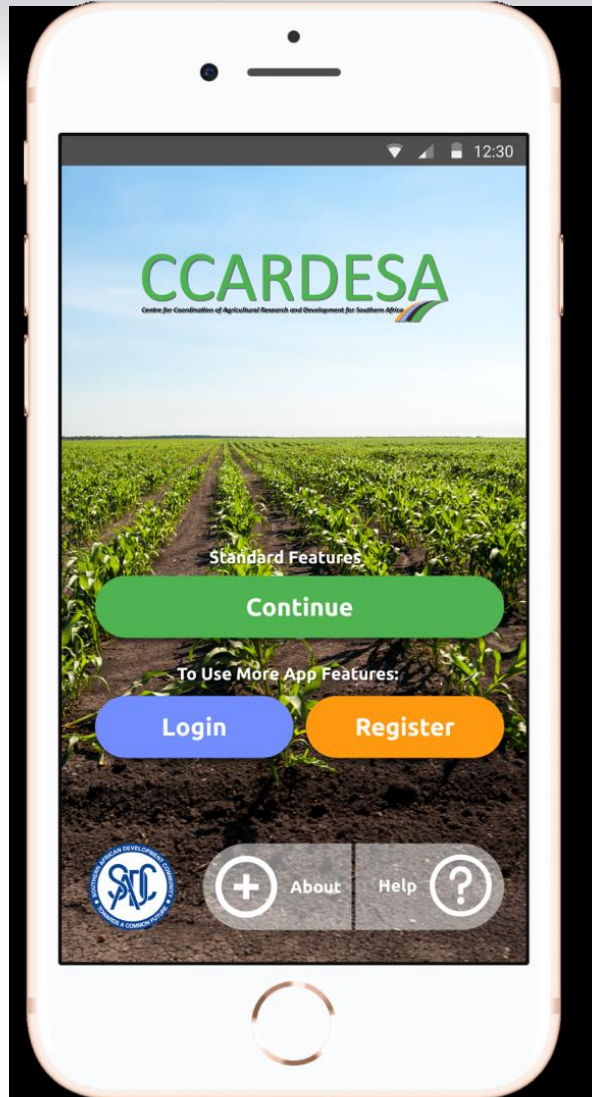


# Main Screens

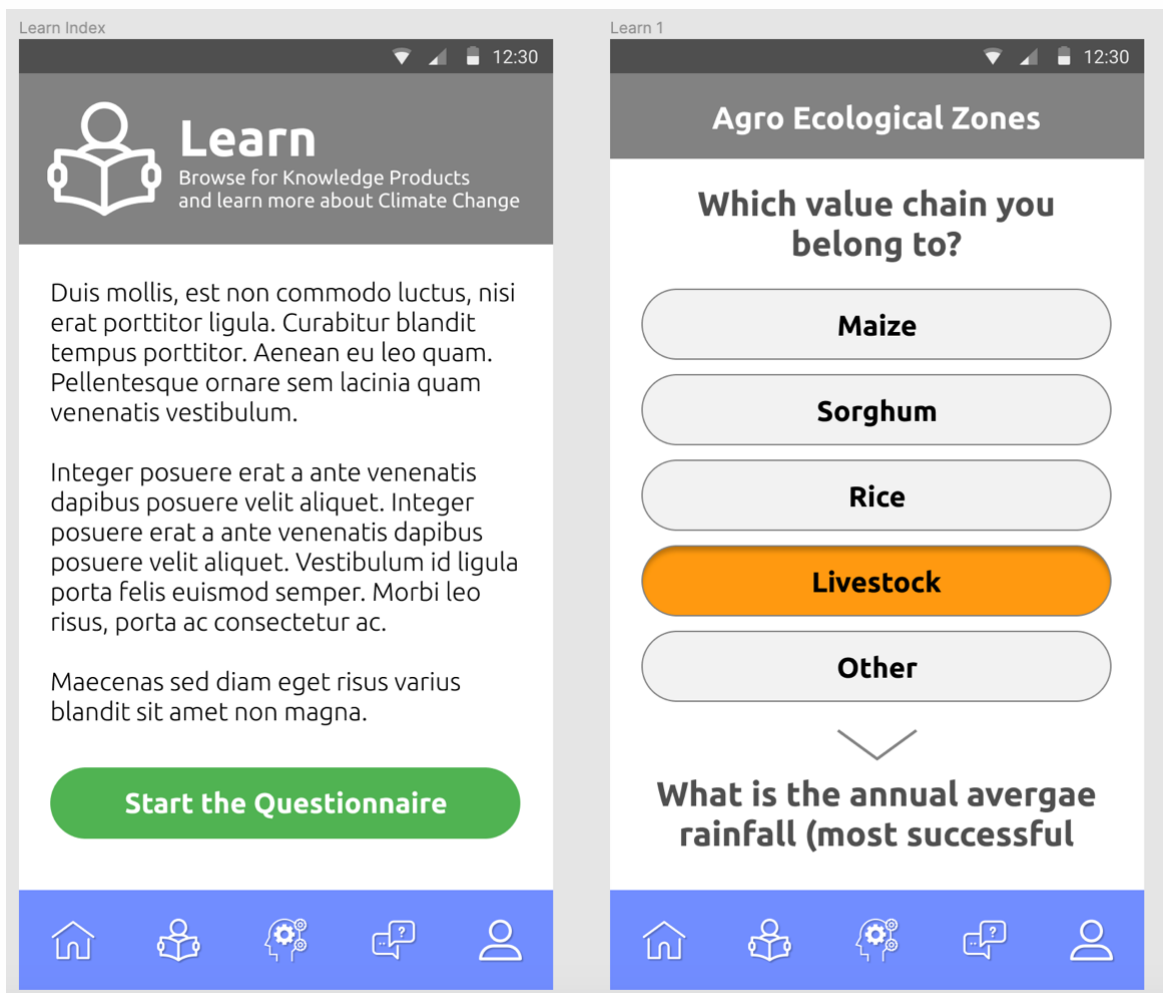
The image displays four mobile application screens for the CCARDESA app. Each screen is shown in a vertical orientation with a status bar at the top indicating the time as 12:30.

- Registration:** A form titled "Register" with fields for First Name\*, Last Name\*, Email Address\*, Mobile Phone Number\* (with a "+" icon), I am a...\* (dropdown menu), Sex... (dropdown menu), and Date of Birth\*.
- Selection - Type:** A list of selection types: Extension Officer and Farmer.
- Selection - Sex:** A list of selection options: Male, Female, and I Rather Not Say.
- Selection - Country:** A list of countries: Angola, Botswana, Comoros, Democratic Republic of Congo, Eswathini, Lesotho, and Madagascar.
- About:** A screen titled "About CCARDESA" containing text about the center's mission and a list of interventions: Coordinating implementation of regional agricultural R&D programmes, Facilitating collaboration among stakeholders of the national agricultural research systems (NARS), Promoting public-private partnerships in regional agricultural R&D, and Improving agricultural technology generation, dissemination and adoption in the region through collective efforts, training and capacity building. It also includes a section "About This App" with placeholder text.
- Help:** A screen titled "Help with the App" containing placeholder text.

# Main navigation screen



# Knowledge Product Access



# Knowledge Product Access

**Learn 8**

**Browse Results**

Based on your answers, there are total of 6 Knowledge Products applicable:

- Compost
- Adding Lime
- Relay Cropping**
- Saving Seeds
- Permeable Rock Dams
- Changing Harvest Time

**Start a New Questionnaire**

**Learn 9**

**Relay Cropping**

**Description**

Relay cropping is a form of intercropping where two or more crops are grown simultaneously during part of their life cycles. Intercropping often involves maize and legumes, which increases nitrogen fixing in soils and increased biomass production. The second (or succeeding) crop is planted after the reproductive stage (flowering) of the existing crop but before harvesting. Some of the advantages of relay cropping include better erosion control due to crop cover, reduced spreading of pests and diseases, and crop diversification, plus general soil health. As an added benefit, it mitigates the emission of greenhouse gases through reducing nitrate leaching and increasing carbon sequestration. There is also potential socio-economic benefits for

# Quiz

## Quiz Index



### Quiz

Play a quiz game and improve your knowledge of Climate Smart Agriculture

Choose one of the following quiz module themes or select a random theme for more fun!

Climate change general

Impacts of climate change on agriculture

How agriculture contributes to GHG emissions

Climate Smart Agriculture

Value Chain 1 - Maize



## Quiz 1

### 1. What is the difference between weather and climate?

There is no difference, they are two words that mean the same thing.

Space. Weather is found in the northern hemisphere, and climate is found in the southern hemisphere.

Time. Weather is short-term conditions, and climate is longer-term patterns.

1 of 10 - Next Question



## Quiz 2

### 2. How does climate influence our environment and way of life?

Changing temperatures and weather patterns effect agriculture how well certain crops grow, if livestock can survive and the presence of certain pests and diseases that affect crops and livestock.

It has no effect.

Incorrect.

2 of 10 - Next Question



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XP4  
PROGRAMME

CCARDESA

Centre for Coordination of Agricultural Research and Development for Southern Africa

# Discussion Forum

### Discuss Index



## Discuss

Participate in various discussions related to Climate Smart Agriculture

You can view discussions without registration/login, but cannot participate. If you wish to participate, please Register and Login.

[Back to Login Screen](#)

The following Discussions are available:






Topic	Posts	Last Post
<a href="#"><u>Climate Smart Agriculture Benefits</u></a>	216	By Simon 2 days and 1 hour ago
<a href="#"><u>Maize Production</u></a>	101	By Mark 3 days and 12 hours ago

### Discuss Search Results

## Search Results

The following are the topics which contain your keyword:

Topic	Posts	Last Post
<a href="#"><u>Climate Smart Agriculture Benefits</u></a>	216	By Simon 2 days and 1 hour ago
<a href="#"><u>Maize Production</u></a>	101	By Mark 3 days and 12 hours ago
<a href="#"><u>Livestock Production</u></a>	77	By Kabelo 20 min ago
<a href="#"><u>Pesticides</u></a>	11	By Refilwe 12 min ago

# Discussion Forum

## Discuss 1

### Climate Smart Agriculture Benefits

#### What is the most important thing for Climate Smart Agriculture?

By **Kabelo** on 12 Sep 2019 at 19:38

Nulla vitae elit libero, a pharetra augue. Nullam id dolor id nibh ultricies vehicula ut id elit.

Com sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Cras mattis consectetur purus sit amet fermentum.

[Login](#) or [Register](#) to comment..

#### Comments

**Nibh Fermentum Amet Risus Amet Adipiscing Quam**



## Discuss 2

#### What is the most important thing for Climate Smart Agriculture?

By **Kabelo** on 12 Sep 2019 at 19:38

Nulla vitae elit libero, a pharetra augue. Nullam id dolor id nibh ultricies vehicula ut id elit.

Com sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Cras mattis consectetur purus sit amet fermentum.

**Subject:**

**Comment:**



## Discuss 3 - Confirmation

### Comment Pending Approval

**Thank you for your comment!**

Your comment is being reviewed by administrators and will be published once approved.

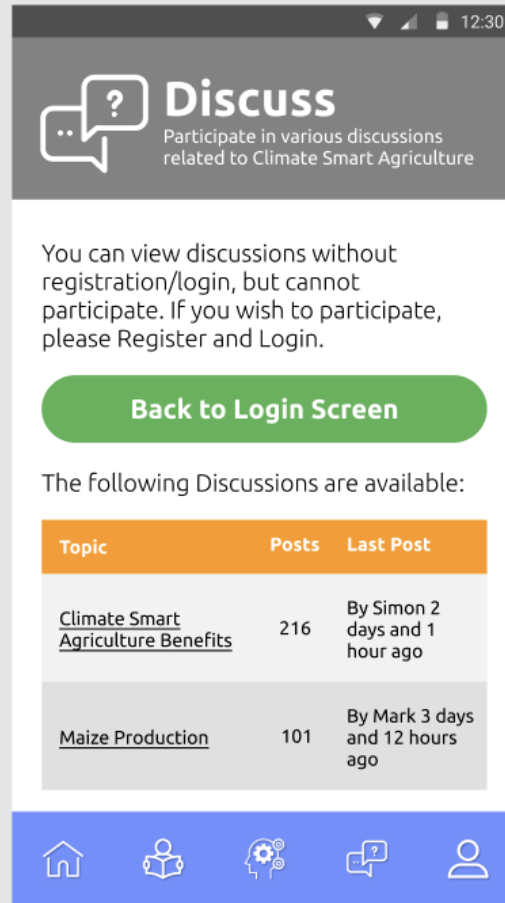
[Back to Topic](#)

[Back to Forums](#)



# Directory

## Discuss Index



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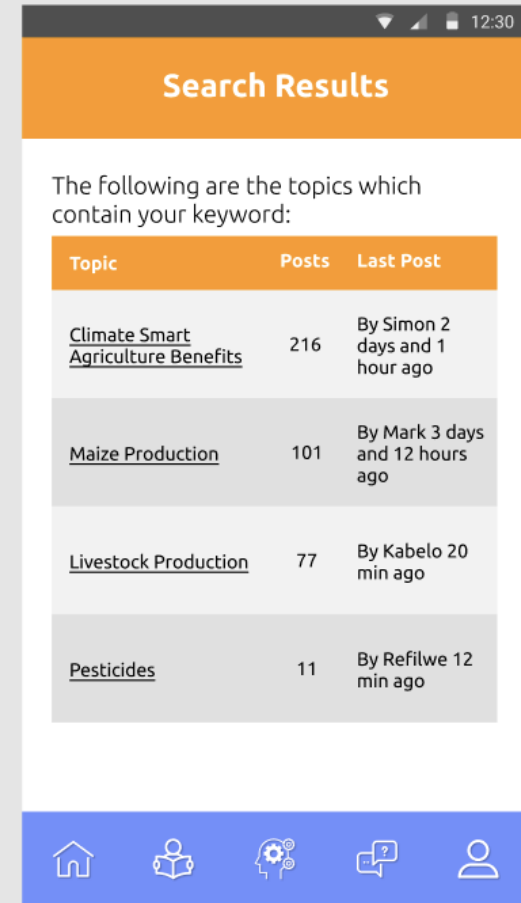
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Navigation icons: Home, Book, Gear, Discuss, Profile

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Navigation icons: Home, Book, Gear, Discuss, Profile



# Directory

## People Index



### People

Meet and get in Contact with other Extensions or Farmers

Here you can find registered users of the CCARDESA App. Free access will give you ability just to see their names, but not contact details. If you wish to see that you will have to Register and Login.

[Back to Login Screen](#)

[Login to View User Details](#)

### Registered App Users

Username	User Type
Boitumelo Matenge	Extension
John Matome	Extension



## People Search Index

### Registered App Users

Username	User Type
Boitumelo Matenge	Extension
<b>John Matome</b>	<b>Extension</b>
Arthur Bakwena	Farmer
Caroline Hughes	Farmer
Piet Klingenberg	Extension
Dineo Mooki	Farmer
Gerald Dithlong	Extension
Jane Sephepe	Farmer
Kabo Motang	Farmer



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PROGRAMME

CCARDESA

Centre for Coordination of Agricultural Research and Development for Southern Africa

- My apps
- Shop
- Games
- Family
- Editors' Choice
- Account
- Payment methods
- My subscriptions
- Redeem
- My wishlist
- My Play activity
- Parent Guide



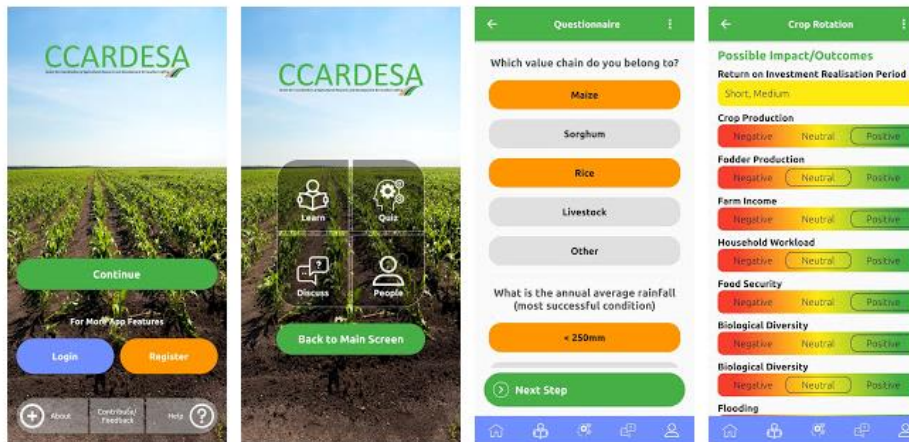
# CCARDESA Mobile Learning App

MindQ Education

3+

Add to Wishlist

Install



The Centre for Coordination of Agricultural Research for Southern Africa (CCARDESA) Mobile Learning App is tool designed to assist agricultural extension workers to learn more about climate change and agriculture in the Southern African Development Community (SADC) region.

The CCARDESA app provides the following interactive features:

LEARN - Find Technical Briefs on a variety of CSA and related subjects, as well as other knowledge resources and Knowledge Products

READ MORE

## Similar

See more



আমার লাইব্রেরী, ২  
Md Mamunur Rasid  
Collection of Islamic Literature in Bengali. By Syed Moududi, Pr. golam

★★★★★



Bangla Sahityer I  
SAMIR PATRA  
Lots of questions-answers of 'History of Bengali Literature'

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The Bible, The Qur'an  
Md Mamunur Rasid  
The Bible, The Qur'an and Science by Maurice Bucaille translated to

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তাকহীমুল কুরআন  
Md Mamunur Rasid  
Whole Tafheemul Quran Tafseer by Sayed Abul Ala Moududee

★★★★★



Rabindranath Tagore  
Scent

# Available on Google store

<https://play.google.com/store/apps/details?id=com.ccardesa.ccardesa>

# Apple App Store



<https://apps.apple.com/bw/app/ccardesa-mobile-learning-app/id1496134876>

# Mobile App Sensitization Training



# Mobile App Sensitization Training



# Mobile App Current Users

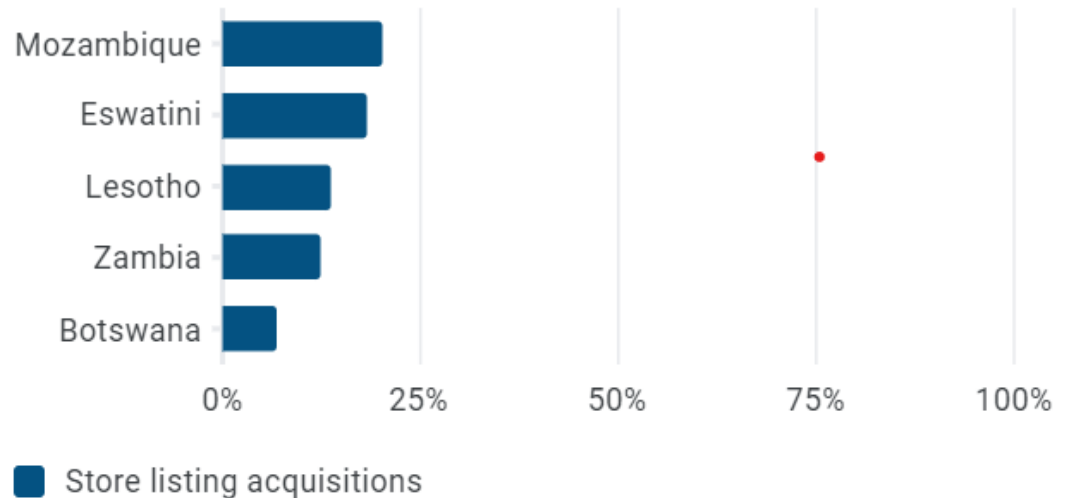
The CCARDESA mobile App has increased its users from 140 last year to 212 in 2021.

The performance of Mozambique is attributed to the field trip of sensitizing extension staff about the mobile app.

The four other countries received Mobile App trainings.

Top countries/regions ?

Mozambique, Eswatini, Lesotho, Zambia, Botswana



# Next steps

- Currently has 212 users
- Uptake usage in all Member states (Extension staff)
- Include more quizzes
- Expand directory through registrations
- Seek feedback
- Updates in Version 2.0



# Acknowledgements

