



15th- 16th
October 2024
Nairobi, Kenya

**Enabling
rural
economies:**



**Creating lasting
impact for the
digital ecosystem
in Africa.**

#ALE2024
#AgriFinALE2024



AI to educate assist farmers

*Capturing & Sharing
Intergenerational Knowledge*

Presentation by:

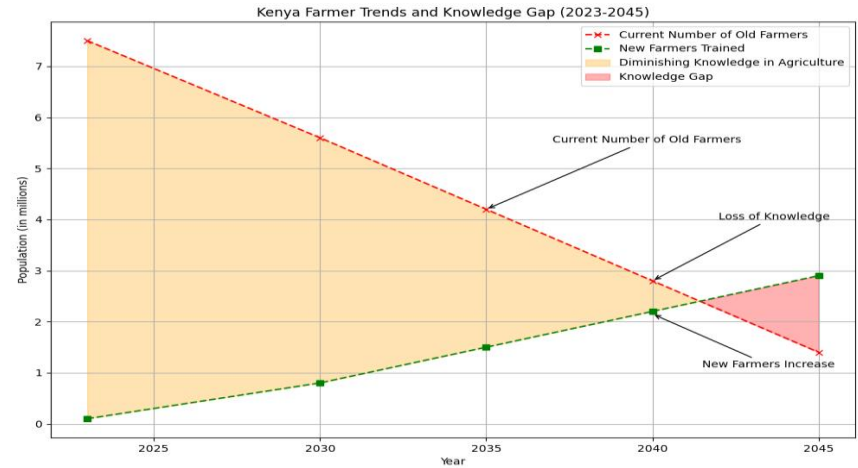
Jay Shapiro & Nathan Muhoro

Usiku
GAMES



Risk: Loss of key intergenerational knowledge

We are < 10 years away from losing all of the wisdom and experience that today's smallshare farmers have built up over decades.



Young Population

The next generation of digital native farmers coming up are less than 25yrs old.



Elder Generation

The median age of current farmers is 60+ years. They have robust institutional knowledge past down from generation to generation.



Mentor Gap

With an average life expectancy of 65yrs, we are headed towards a sectors of 30-somethings with no mentors to guide them.

Capturing knowledge first-hand.

We are training the AI models based on actual first-hand interviews with elders from the community, capturing the generations of traditional wisdom and experience that they have built up.



Find and Identify Experts

Reach out in the community to find elders with knowledge and a willingness to share.



In-Person Interviews

Travel to the community and interview the elder in their environment, spending a day hearing their stories.



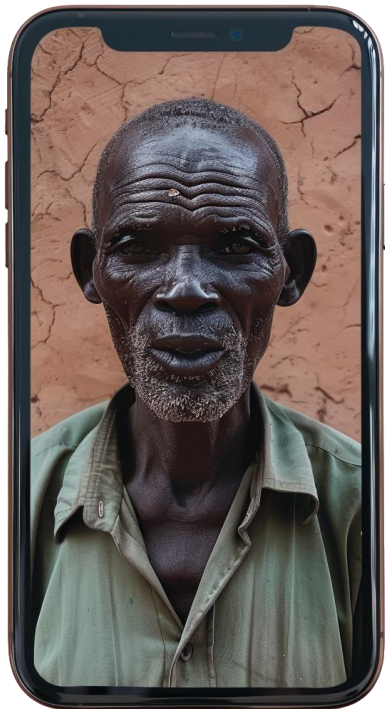
Transcribe and Train the AI

Recordings from the conversations are automatically transcribed and then translated into English, to be fed into the AI models.



Joseph Chemaina

Ogiek Tribe Elder & Indigenous Beekeeper - Mariashoni, Nakuru County, Kenya



Leveraging the latest MetaHuman Avatar Tech





Mzee.ai

Who do you want to speak with?



Mama Kyalo
Expert
beekeeper



Mzee Maingi
Farming
expert

Conservation
agriculture

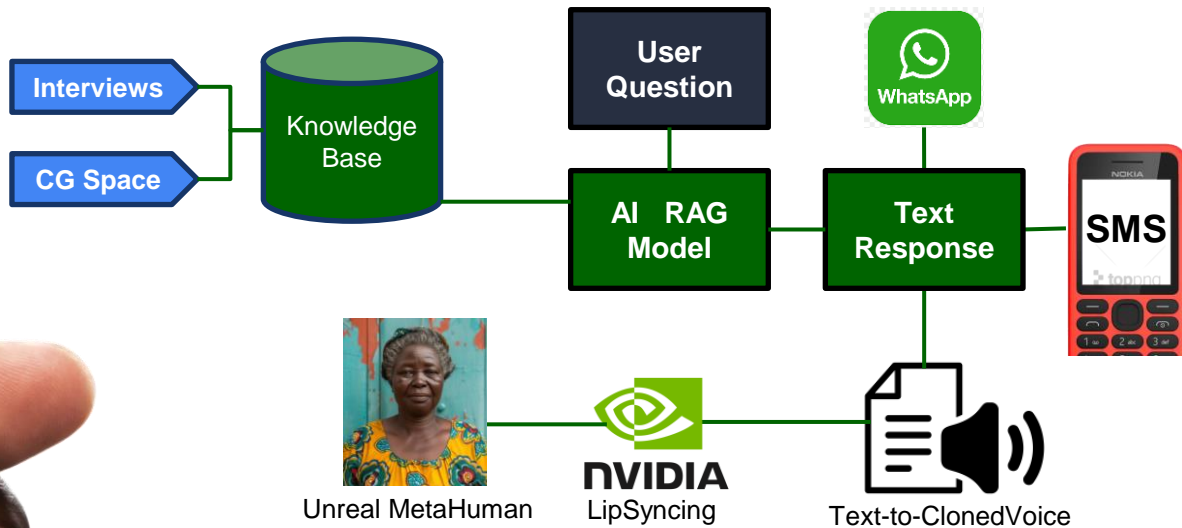
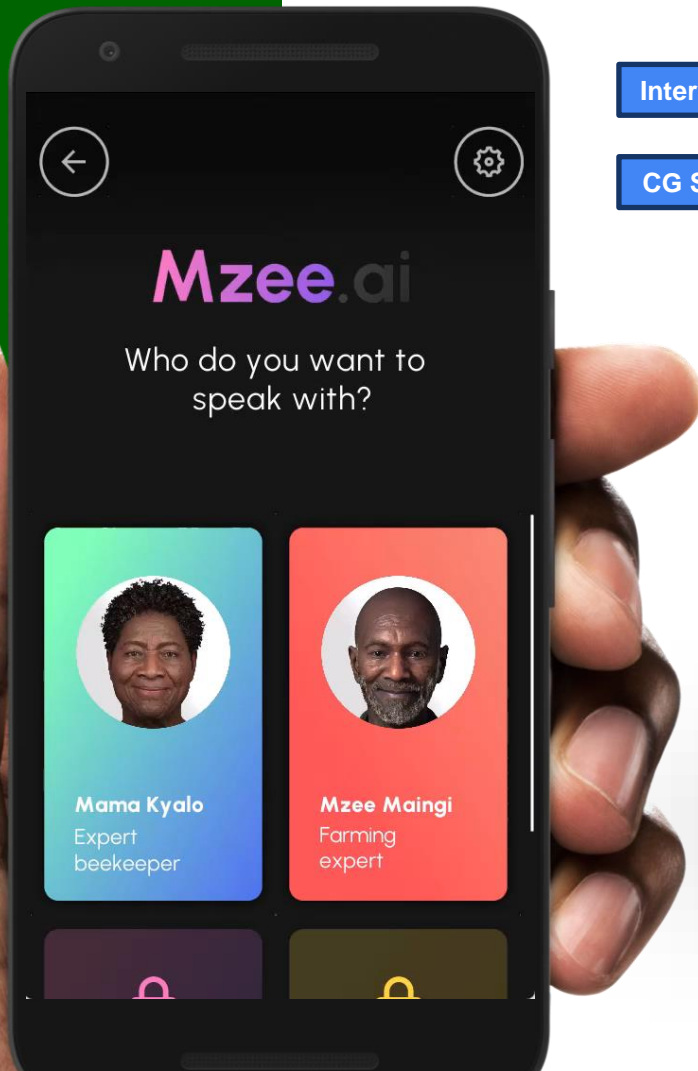
Experience in:
Maize
Beans
Vegetables

Mzee Maingi

72 Years Old – Kiambu County

Mzee Maingi is an expert in issues relating to:

- Conservation Agriculture
- Intercropping
- Organic pest control
- Fertiliser and Seed Choices



**Conservation
agriculture**

Experience in:
Maize
Beans
Vegetables

Mama Kyalo

61 Years Old – Narok County

Mama Kyalo is an expert in issues relating to:

- Organic Beekeeping
- Honey marketing & sales
- Wildflowers selection & growing

KNOWLEDGE

AI

PERSONAS



CG Space Pdfs

Train the RAG

Found Local Elders

Conducted Video Interviews

Transcribed the videos and converted them into PDFs

Created Interaction Rules

Question Submission

Text Answer

Voices

Recorded Voice Actors

ElevenLabs

Localised Voice



Characters

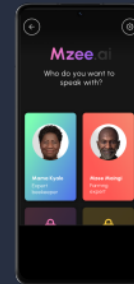
MidJourney Character Mood Board

MetaHuman Modelling

Rigging for Animation

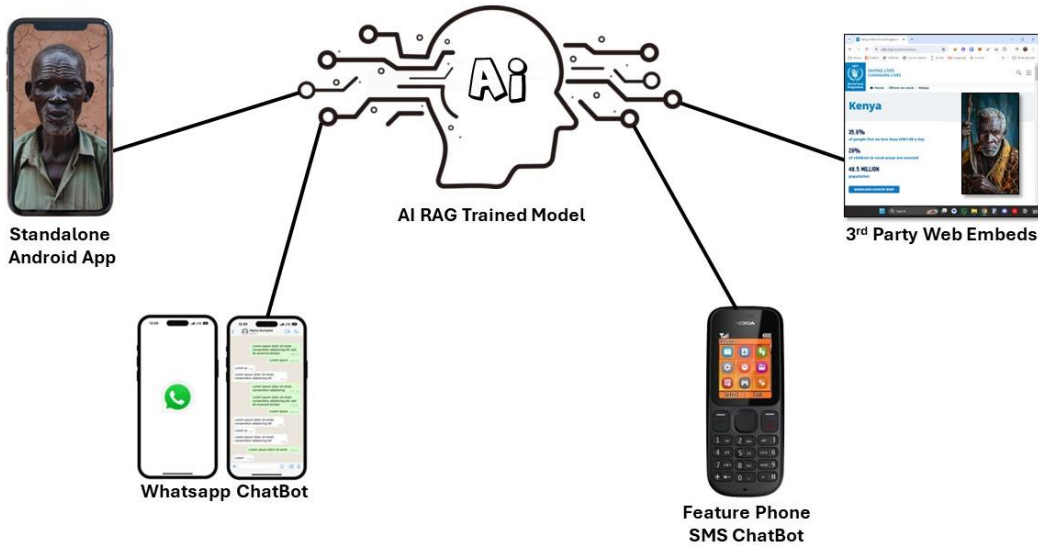
Idle Animation

Nvidia Lip-sync



How can people access mzee.ai?

“Headless Delivery” Approach



Bringing Generations Together



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*Please check out the full
concept note at:*

www.mzee.ai

