



## CO-FOUNDERS

Dear Yiya Family,

What an extraordinary year 2024 was! From winning the prestigious Tools Competition, to Samson's return from the Obama Scholars program at Columbia University, to hosting our first-ever UNGA side event, last year was full of milestones. But the most powerful highlights come from the young people whose determination continues to inspire everything we do.

Take **Winnie**, a teenage girl with a spinal disability who couldn't attend traditional school. Through Yiya AirLearning, she accessed lessons via radio and a basic keypad phone, built a solar dryer, and launched a small agricultural business. Or **Marion**, a teenage mother of two who had lost hope of continuing her education. After completing our remote course, she earned a certificate and now supports her family through the business she built again using a solar dryer she constructed with skills learned through Yiya.

These stories are made possible because we stay grounded in our **four guiding pillars**:

#### Equitable Access

We believe education must reach even the most underserved. That's why our learners don't need the internet or smart devices just a radio and a basic phone. In the past 5 years, we have served over 37,000 youth; many are out of school and live in remote areas.

#### High Quality

**We don't compromise on rigor.** Our experiential, skills-based courses are accredited by the Ugandan Directorate of Industrial Training. Our 41% course completion rate is *more than double* the global average for remote online learning (typically 10-20%).





#### Human-Centered

Our **learners are at the heart of everything.** Each message, lesson, and follow-up is designed to make them feel seen and supported. Whether they're raising children or managing disabilities, we meet them where they are.

#### Efficient Impact

We know that scale in Africa requires radical efficiency. With more demand than we can currently serve, often double the number of available spots, we're advancing our plan for long-term sustainability, where Yiya AirLearning becomes substantially self-funded via hosting client content on our learning platform.

As we look ahead, we're energized by the vision of a future where every young person in Uganda, and across East Africa, has access to high-quality, vocational education that leads to dignified, fulfilling livelihoods.

To all our partners and funders: thank you. Your belief in us is what makes this work possible.

#### Apoyo Matek (thank you so much)!

With deep gratitude, **Erin & Samson** Co-Founders, Yiya

# The Education Challenge: Africa's Next Frontier

#### 100 million

children in Sub-Saharan Africa are out of school (UNESCO)

#### 70% of youth

in rural Uganda don't go to secondary school

#### 4.2 million

Ugandan youth (15-30) are not in education, employment to training (NEET), according to the Uganda Bureau of Statistics





2016 - 2019

Yiya is founded, and runs in person STEM classes

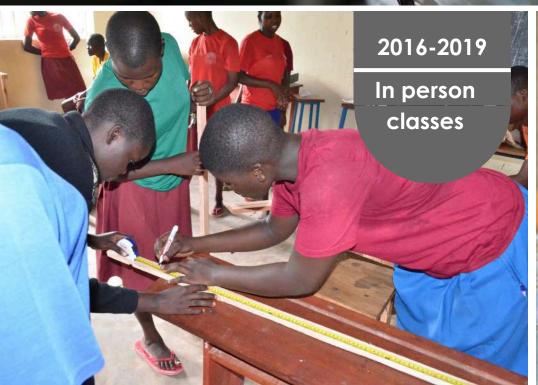
2020 - 2024

37,000 students

Launch of Yiya
AirScience, providing
remote lessons via radio
& keypad phones

2025 and beyond

AirLearning will be launched to pilot scale model







At Yiya, everything we do stems from our core belief that:

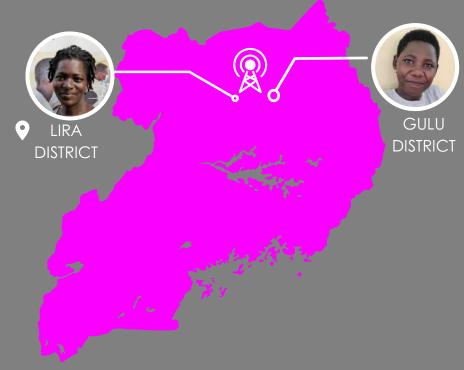
Africa's greatest

resource is the

limitless potential of its

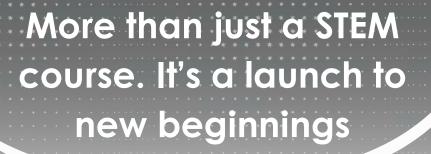
youth.





Nowhere is this more true than in Uganda, where youth make up over **75% of the population**, representing one of the youngest populations in the world.

We believe education is the key to unlocking this potential. However, such education must be bold, practical, and aligned with the future. That future is the youth.



## Curriculum Improvement

We increased course completion **by 26%** through Human-centered curriculum design and phone interface development. **1,386** learners qualified for certificates!

2,931

Total Enrolled Students in the course



41%

Course Completion



1,386

Learners Qualified for Certificates



350

Learners Qualified for certificates of Achievement



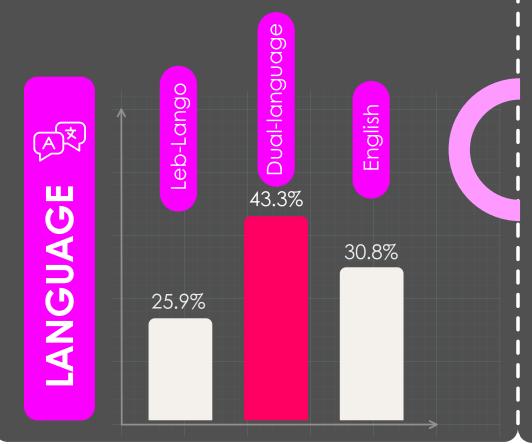


#### THE DATA

### LEARNINGS

#### Student Enrollment

In 2024, we saw remarkable participation and engagement from students across various cohorts. The demand was overwhelming, with over 6,000 students applying. We enrolled 2,931 students across three cohorts: English (30.8%), Leblango (25.9%), and Dual-language (43.3%).





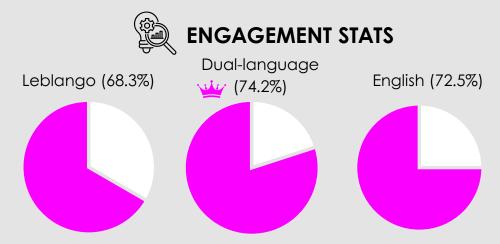
1,330 Female learners enrolled!

**Female** 



#### **Engagement & Participation**

Course engagement remained strong, with students in the Dual-language cohort leading the way at 74.2% engagement, followed by English and then Leb-lango. These numbers reflect a commitment to learning, and excitement about the dual-language learning option. Learners in the Dual-Language cohort could switched the language of instruction between English and Leblango.



Yiya's STEM curriculum was translated into Leb-lango for the first time for this course, which also the first time that a STEM course has been provided in Leb-lango! While we predicted this would make the content more accessible, we learned that literacy was still a barrier for those youth who were only comfortable in their local language, and not in English. This is the reason for the lower engagement in that cohort. As a result, we are working on features that would make our courses accesible even for low-literacy learrners.

#### **Performance Analysis**

Students who listened to radio lessons before answering quiz questions exhibited higher overall assessment performance, with pass rates ranging between **73-80%** on regular questions and non-attempt rates below **1.2%**. On the other hand, students who struggled with coding questions showed significantly lower pass rates **(26-37%)** and higher non-attempt rates **(38-48%)**, emphasizing the importance of targeted support in technical problemsolving skills.

#### **High Performers**

Pass Rate: **73-80%** 

Demonstrate they listened to the radio lesson by entering a code given in the lesson.

#### **Lesson & Test Performance**

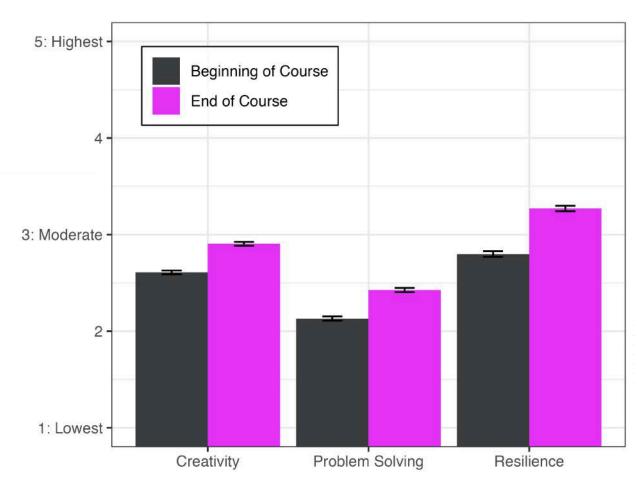
Lesson & test performance data highlighted the Duallanguage cohort as the best-performing group, showcasing the benefit for learners to have the flexibility to learn in both English and local language, at will.

#### LEAVERAGING OUR

## IMPACT

Since 2020, Yiya AirScience has impacted over **37,000 learners**, primarily out-of-school youth in rural Uganda.

**32,000+** out of school









## From our Research Partners at Carnegie Mellon University

At the midpoint of Course 4, a midline assessment showed that both components of the course radio broadcasts and interactive messages on the phone interface played an important role in supporting students' understanding. Students who were highly engaged in the broadcasts demonstrated stronger conceptual understanding of resilience, offering more advanced examples aligned with course objectives.

However, when predicting final exam scores, the impact of completing practice questions on the phone interface was 2.29 times greater than that of listening to radio broadcasts. Specifically, completing all 36 sets of practice questions predicted a 30.4-point increase in scores, compared to a 13.2-point increase from listening to all 36 broadcasts. Overall, this shows that both components of the course broadcasts and interactive messages are important for the learning experience and related outcomes.

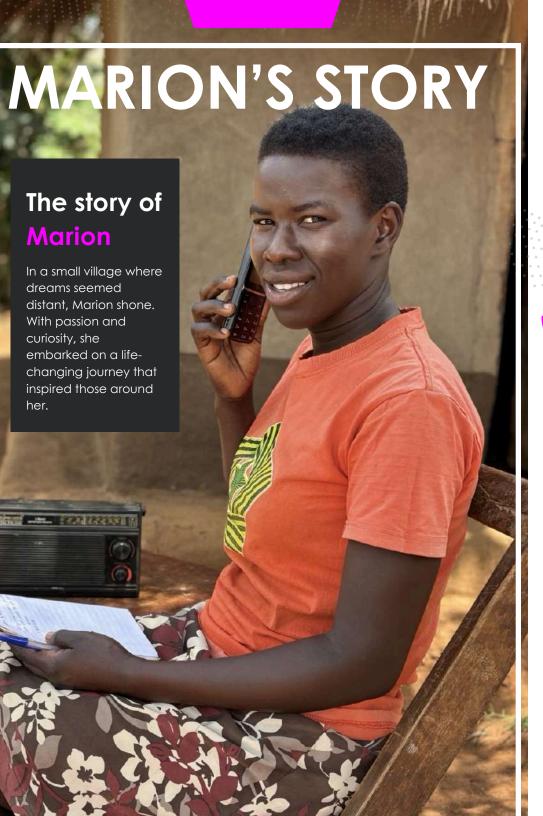
30.4-point
increase from
completing
practice questions

13.2-point increase from listening to broadcasts

**Final Exam Scores** 









46

Yiya opened doors to many opportunities that I wasn't aware of



Marion, an Airscience Learner narates

### Hope on the Air: A Young Mother's Rise Through Yiya's Program

At just 19 years old, Marion had given up on education. Married with two children and facing domestic violence, she believed her future was set—until she heard a Yiya radio talk show. Inspired by the message that education was still possible, she took a bold step and enrolled in Yiya's program.

Balancing motherhood and studies wasn't easy, but Marion persevered. When she shared her story on the same radio platform that changed her life, the impact was immediate—Yiya's registration system spiked with new enrollments that day. She completed her course with top marks, eagerly awaiting her certificate and a chance to compete for Yiya's cash prize at the showcase.

### **TEDDY AYUME**

Teddy Ayume found herself at a crossroads after completing S.4 at Aloi Comprehensive in 2019. For a long time, she felt stuck at home, searching for purpose and direction. However, everything changed in July when she heard about the Yiya AirScience program on the radio. Intrigued, she dialed the code and joined the program, initially unsure of what to expect.

Teddy became deeply engaged in the lessons, transforming her initial curiosity into a passion. By the end of the course, she had developed a remarkable innovation: a solar food dryer.

With the new technology, Teddy can dry fruits like mangoes and pineapples and plans to start a mushroom farm. The Yiya program has significantly impacted her life, empowering her to educate fellow farmers about the solar food dryer to combat food spoilage and excess production. She even sold her first solar food dryer to a cocoa farmer, marking the beginning of her entrepreneurial journey. Teddy's journey highlights the importance of education and innovation, making her a source of hope and inspiration for her community.

"

It's Yiya that gave me hope of starting my mushroom business



"

Getting a second go in life is an opportunity I didn't expect to get!

## JANE \*\*\*\* API()

Jane Rebecca from Bar Subcounty has always faced challenges that many of her peers do not. Yet, her determination and enthusiasm shine brightly, especially during our recent course aimed at educating children about problem-solving through practical projects. This year, the program focused on building solar food dryers, a solution designed to help preserve food and reduce waste in the community. Jane Rebecca, despite her hearing impairment, became an active participant through always sitting somewhere behind the house with minimal noise and having her radio volume at 100%, demonstrating that challenges do not define one's abilities.

7,

Jane shares that she has gained many valuable skills from this program and now she can not believe the confidence she has to even stand in front of people and tell her story, she is positive that with skills gained from Yiya AirScience, she will be able to generate enough income someday and support herself to become an even better engineer like she has always dreamed.









Co-founder **ERIN FITZGERALD** Chief Executive Officer/ Co-Founder



**ANGELA FORCIER** Chief Operations Officer



**SHEEBA NIWENSIIMA** Product & Programs









**ALAKA** 



Community Engagement

**ABER** 



CANMOO Field Consultant.



**NIMROD MUHANGUZI** 



**DAPHNE NASASIRA** Officer



**SSEMWANGA** 



**SSEBISUBI** 

### Memorable Moments . •



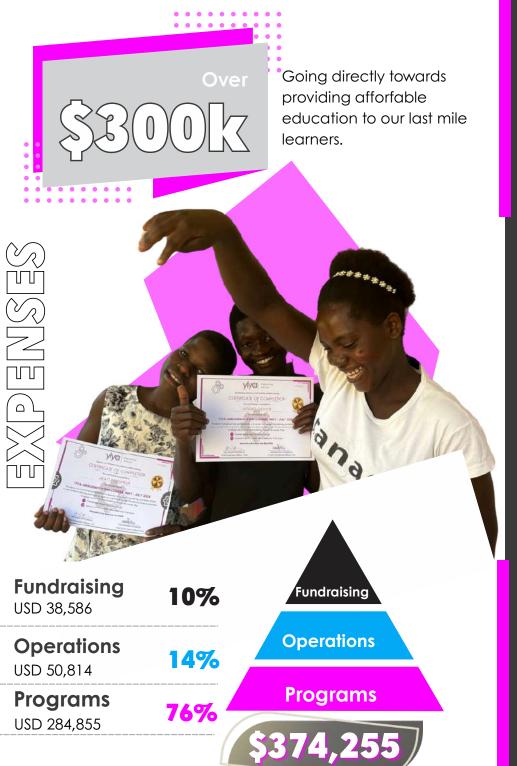




Yiya UNGA event

Launching of SQ Program

**Annual Gala** 



USD 588,408

**TOTAL REVENUE** 



USD 175,000

Awards

\$57k

USD 57,316

**Carried over** from 2023

**AWARDS** USD 175,000

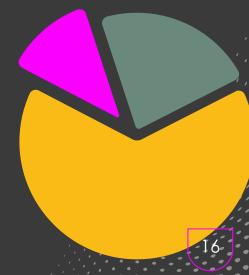


**FOUNDATIONS** USD 304,480



**INDIVIDUALS** USD 51,612





Alan Gardner

American Online Giving Foundation

Boris Bulayev

Bret Rubin

Caroline Lowenthal & Sam Ribnick

Diana Hussa

Dovetail Impact Foundation

Ellie Decker

Esther Ann Miller

Jacobs Foundation

Katheline Ruiz

Kathryn Schumacher

Libra Philanthropies

Louise and Jerry Ribnick Family Philanthropic

Fund

Matt Lowenthal

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Network for Good

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PayPal Giving Fund

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#### THANK YOU TO

### **OUR DONORS**





Sean Fitzgerald

Segal Family Foundation

Someone Else's Child Foundation

The GSR Foundation

The Learning Agency

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**OUR** 

## Partners













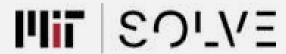








Natembea Foundation

























Oku'yiya

To solve an old problem in a new way.

To hustle.



We envision a world where the 1.3 billion people living in Africa have a seat at the table in innovative fields globally, where African perspectives, knowledge, and skills help create new solutions to the world's biggest challenges. We envision a future where African technologies drive a powerful African economy that provides productive, fulfilling livelihoods for all its inhabitants.



