LING Project
2024 Annual Report

Table of Contents

Project Overview

In 2024, the LING Project took significant strides to expand its mission of empowering rural learners.

By integrating cutting-edge digital tools and STEM-focused programs, we equipped students with essential 21st-century skills, preparing them for the jobs of tomorrow.

Highlights of the year include hands-on training in drone technology, coding with Micro: bits, robotic car assembly, augmented reality with Merge Cubes, and active community engagement.

ABDUL-RAZAK ISSAH

Executive Director

Message from the Executive Director

STEM education is increasingly recognized as a global priority, with many economies integrating it into their curricula to prepare students for the future. However, in developing countries like Ghana, this progress is often limited to urban schools, leaving rural communities underserved and disconnected. Despite some advances in digital literacy sparking creativity and awareness of future job opportunities, rural students continue to face significant barriers. Without access to technology-focused resources, they miss out on acquiring essential skills for thriving in a tech-driven workforce.

At LING Project, we are deeply committed to bridging this gap. Drawing inspiration from innovative organizations like Stempunks & ET, we adapt proven STEM approaches to meet the unique needs of local communities. Our mission is to provide flexible, technology-based learning resources that prepare students for tomorrow's workforce—regardless of their social, economic, or environmental background.

The absence of a tech-centered approach in rural education does more than limit learning, it often discourages students particularly girls from continuing their education, particularly in the face of challenges like poverty and cultural barriers. At LING, we are working to create real, transformative change. This year, our STEM-based workshops have delivered hands-on, industry-relevant activities to disadvantaged learners, nurturing problem-solving skills and critical thinking from an early age.

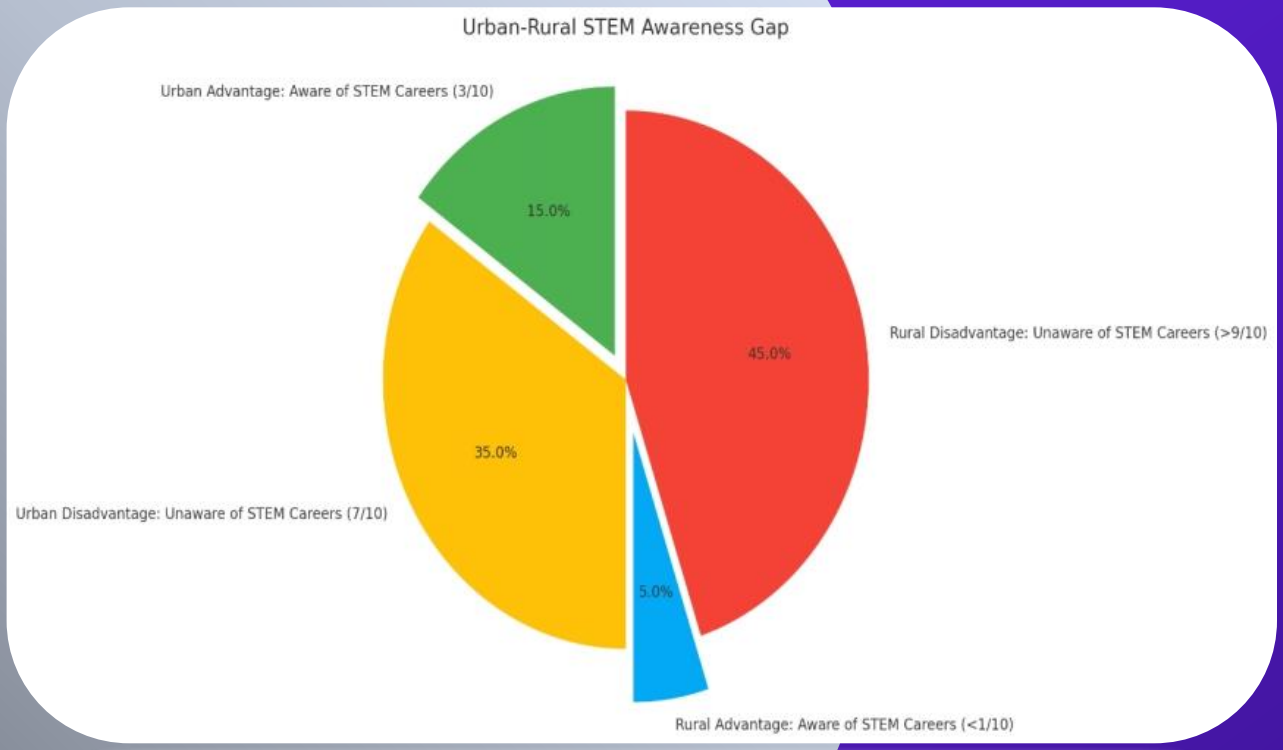
It has been especially rewarding to see girls thrive in these workshops, often challenging their male peers and gaining recognition from their teachers. Our 2024 programs have expanded to include exciting, interactive tools such as drones, Maqueen robotic kits, paper models of human organs, Merge Cubes for dynamic science lessons, and materials for building electric vehicles using locally available resources. We've also introduced coding lessons with micro:bit devices, LEGO-based projects, and bridge-building kits from Engineering Tomorrow to spark interest in engineering careers.
These resources are not just tools, they are bridges to a brighter future, particularly for girls who are discovering new pathways in STEM and realizing their potential in technology and science.

As we look ahead to 2025, we are energized by the progress we've made and the opportunities that lie ahead. Together with our supporters and partners, we aim to continue inspiring and equipping the next generation in rural communities, empowering them with the tools, skills, and confidence to thrive in the future.
Thank you for being part of this journey. Your support fuels our mission and transforms lives.

THE PROBLEM

1.Urban Advantage: Only 3 in 10 children in urban schools are aware of STEM careers or have access to technology for learning.

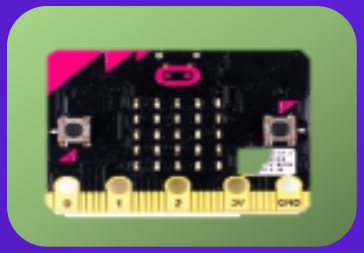
1.Rural Disadvantage: In rural areas, most children are unaware of STEM careers and lack digital literacy skills to access educational resources.

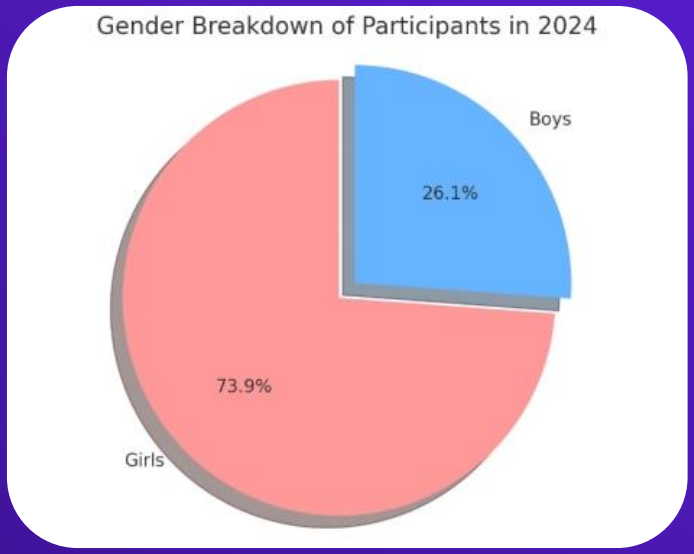

Urban-Rural STEM Awareness Gap
Urban Advantage: Aware of STEM Careers (3/10)
15.0%
Rural Disadvantage: Unaware of STEM Careers (>9/10)
45.0%
35.0%
Urban Disadvantage: Unaware of STEM Careers (7/10)
5.0%
Rural Advantage: Aware of STEM Careers (<1/10)

Our Solutions

We designed innovative, hands-on workshops tailored to the needs of rural learners, focusing on practical applications and inclusivity:

- **Drone Technology:** Students assembled and operated drones, linking tech skills to real-world applications like photography and surveying.
- **Coding with Micro:bits:** Learners used coding to solve everyday problems, building foundational digital fluency.
- **Merge Cube Technology:** Augmented reality tools made science lessons interactive, helping students visualize and engage with complex topics.
- **Robotics:** Students assembled robotic cars, connecting classroom concepts to the automotive industry.
- **Electric Vehicles:** Workshops introduced learners to EV design, empowering them to create models using local resources.
- **Education Supplies:** Essential school supplies ensured at-risk students, particularly girls, could stay in school and focus on their studies.





IMPACT

In 2024, we reached **1,002 learners**, of whom **740 were girls**, through:

- STEM workshops in drones, coding, robotics, and electric vehicles.
- Programs fostering problem-solving skills, creativity, and industry-linked learning.
- A focus on bridging the gender gap in STEM, empowering girls to envision careers in technology and science.

LOOKING FORWARD

In 2025, we aim to:

- Expand equipment to increase participation in STEM activities.
- Develop advanced modules for students who have mastered foundational skills.
- Host a **Community Showcase Event** for students to present their projects to families and leaders.
- Organize field tours to industry sites to inspire career aspirations.

CONCLUSION

Our 2024 initiatives demonstrated the transformative power of early exposure to STEM and digital skills in rural communities. As we move into 2025, the LING Project remains dedicated to bridging the rural-urban divide in education, empowering learners with the tools and confidence to thrive in a tech-driven future.

Acknowledgement
We extend heartfelt thanks to our amazing supporters, partners, and volunteers who made 2024 a year of growth and impact. Your contributions fuel our mission and inspire the change we strive to create.

Dr. Stephen Peter's
Dr. Thomas Gaiter
Stephanie Lyons
Jonathan Nalder
Imam Sasso
Todd Hall
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Abena Baiden
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Kimberly Lovett
Lawra Swash
Erin Inclan
Damien Azzorpardi

Partners

STEM PUNKS The Peter's Group KDSL Global & (WOC) Merge EDU

Ways to Give
Support us in empowering vulnerable girls through STEM workshops to break the cycle of poverty.

Contact
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THANK YOU !!!
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