

Fundi Bots

accelerating science learning in africa



2022 ANNUAL REPORT





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Message from Founder



Solomon King Benge
Executive Director

2022 was an incredibly gratifying, exciting and yet an equally complex learning time for Fundi Bots. We continued to grow in every regard and have seen our work impact more than 10,000 children and youth around the country.

It was the single biggest year of our growth. For comparison, between 2014 and 2021, we trained 10,580 students. In 2022 alone, **we trained 10,200 students**. And our work in 2022 was sharply focused, the result of two years of planning, training, recruitment and strategy development during the COVID lockdowns.

Between February and November, we **hired 77 new staff, produced over 25,000** learning tools and got stronger partnerships with government institutions. For example, we got an accreditation by the Directorate of Industrial Training, a renewed partnership letter from the Ministry of Education and a stronger collaboration with the National Curriculum Development Centre. We also raised more revenue than we raised in any year that we have been in existence. Finally, we got shortlisted for two awards; Clifford Chance SDG Awards and Nature Inspiring Women in Science Awards.

2022 Highlights



10,200
Students
Trained



77
Staff Hired



25,000+
Learning tools
produced

Such rapid growth comes with challenges, and we faced numerous complications which tested our resilience as an organization. As a result of the capital-intensive nature of the Enhanced Science Curriculum and external global finance factors, we had an overall shortfall in our fundraising targets for the year, and had to make some operational and financial adjustments towards the last two quarters to reduce short-term costs. Some programs like the Fundi @Work program and Fundi Girls did not get dedicated funding, which led to shortfalls in some targets.

Despite these adjustments, the team remained inspired and committed to achieving our goals and objectives. If 2022 taught us anything, it is that our most outstanding achievement is having a village of donors and a team who remain steadfast and devoted to our 10-year vision of transforming science education for 1 million African youth and children.

As we move forward, we are excited to be building a new board of directors and advisors, strengthening old relationships with partners and exploring exciting new donor partnerships that will amplify our impact in the coming years.

#WeareFundi

Who we are

Fundi Bots is an educational non-profit organization accelerating science learning in African classrooms. Fundi Bots operates in 4 regions in Uganda: Eastern Uganda (Mbale Office), Western Uganda (Mbarara Office), Northern Uganda (Gulu Office) and Central Uganda (Kampala Office). Outside Uganda, we have carried out training in Tanzania, Zanzibar and Rwanda.

What we do

Fundi Bots promotes improved, practical science education in African schools and communities through the provision of hands-on skills and project-based training, with a strong focus on rural and underprivileged regions and a push for equitable inclusion for girls.

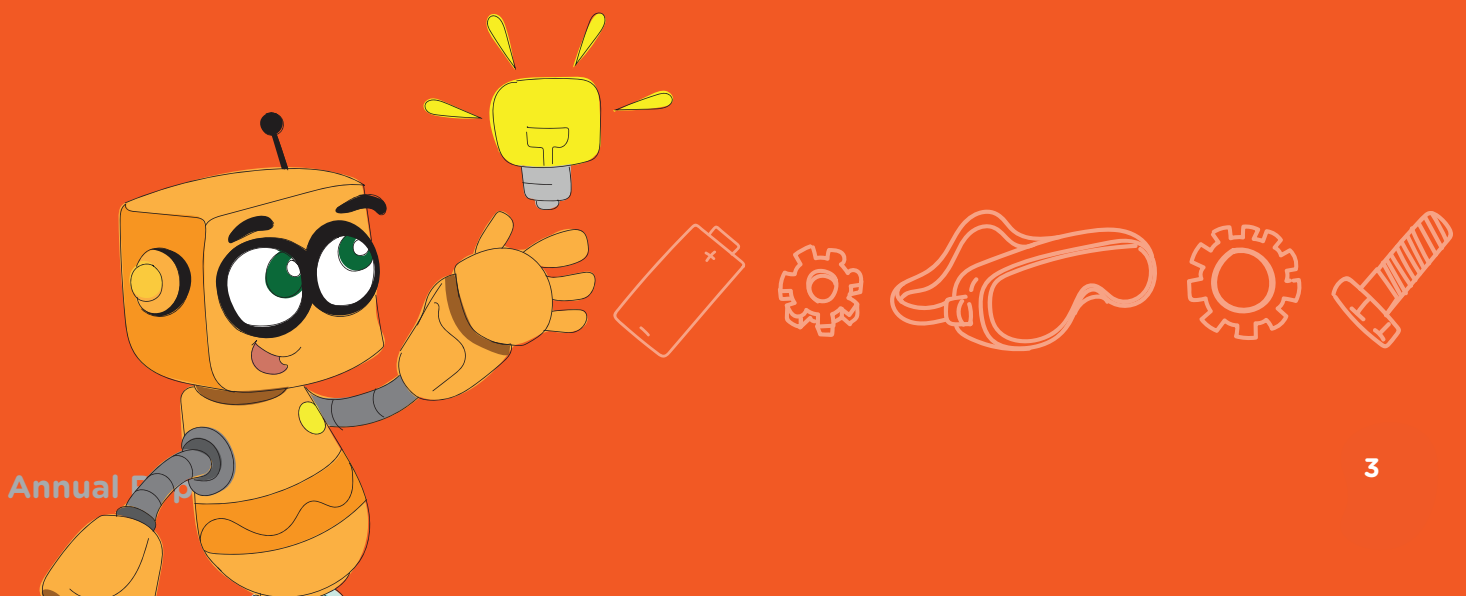
We use a network of schools, teachers, community-based partners, mentors, and interns to implement strategies that increase students' performance in classrooms, provide career training, and impart technical skills through custom STEM programmes and curriculum.

Mission and Vision

At Fundi Bots, our mission is to accelerate science learning in Africa, and our vision is to see Africa transformed through science.

10 year mission

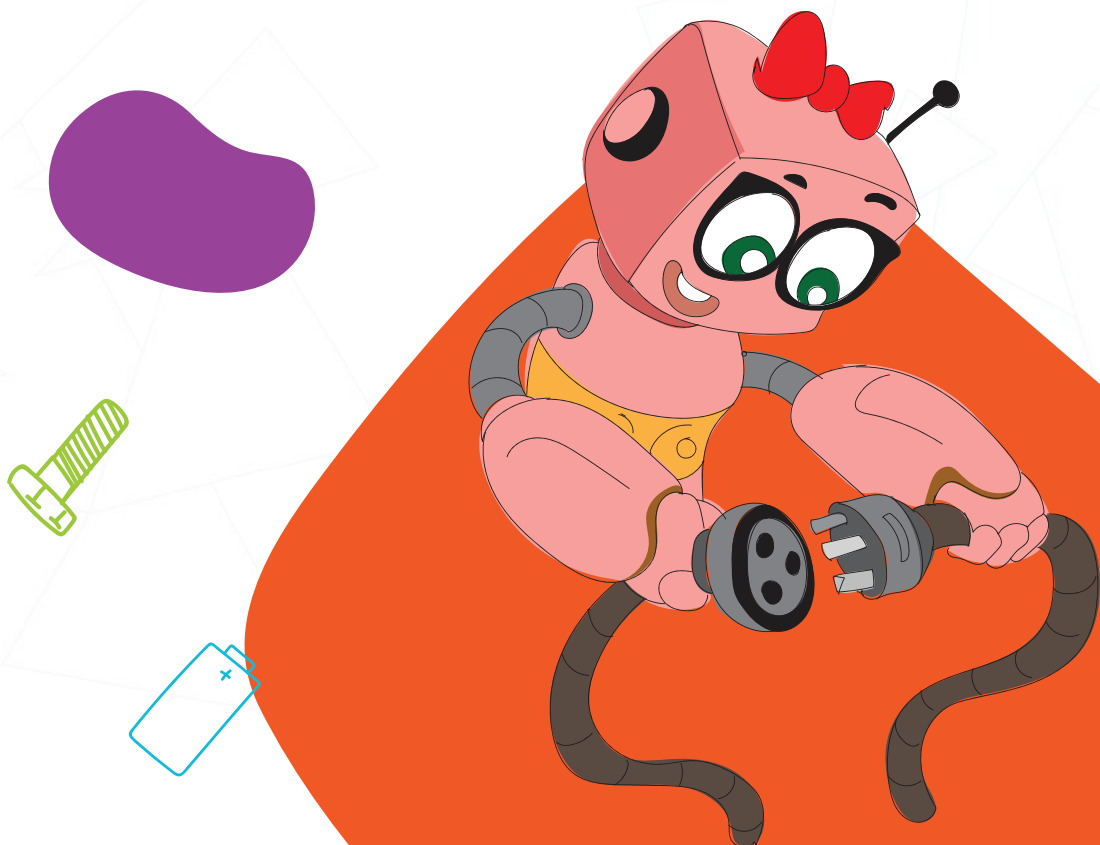
Accelerate science learning and provide skills training for 1,000,000 African children and youth by 2030.





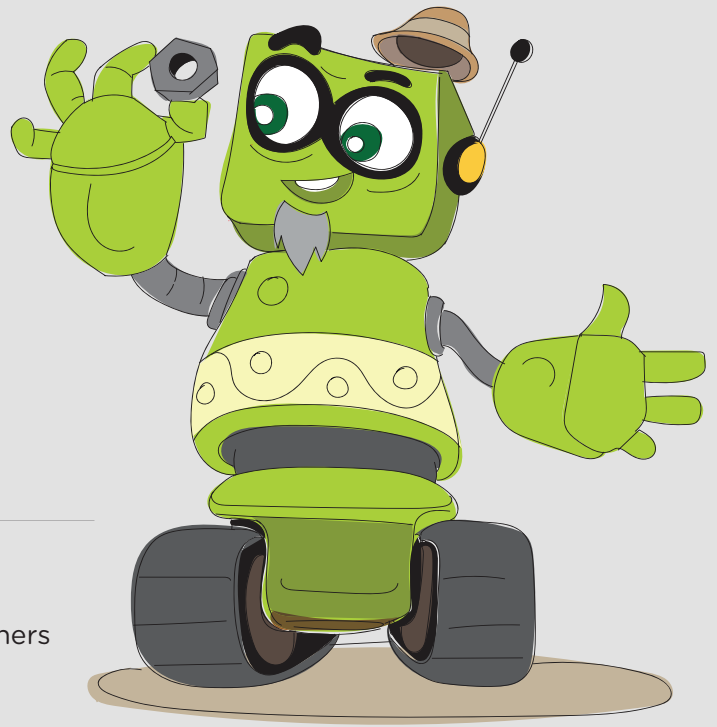
Our Process

Our learning experiences provide a well-rounded and engaging methodology to increase students' performance in classrooms and provide career training and technical skills through custom STEM programs and curriculum. Fundi Bots uses a network of schools, teachers, community-based partners, mentors, and interns to implement strategies.



Fundi Bots

Today
(2011 - 2022)



218
Schools reached



429
ESC teachers trained



121
ICT teachers trained



21,112
Students Trained
Fundi Girls
(2,355)



207
University Students
reached through
Internships and Robotics
training



18
Out-of-School
Youth



1,075
Students trained
through Fundi @
Home Holiday
Robotics



428
Students trained
through Fundi @Work



115
Team

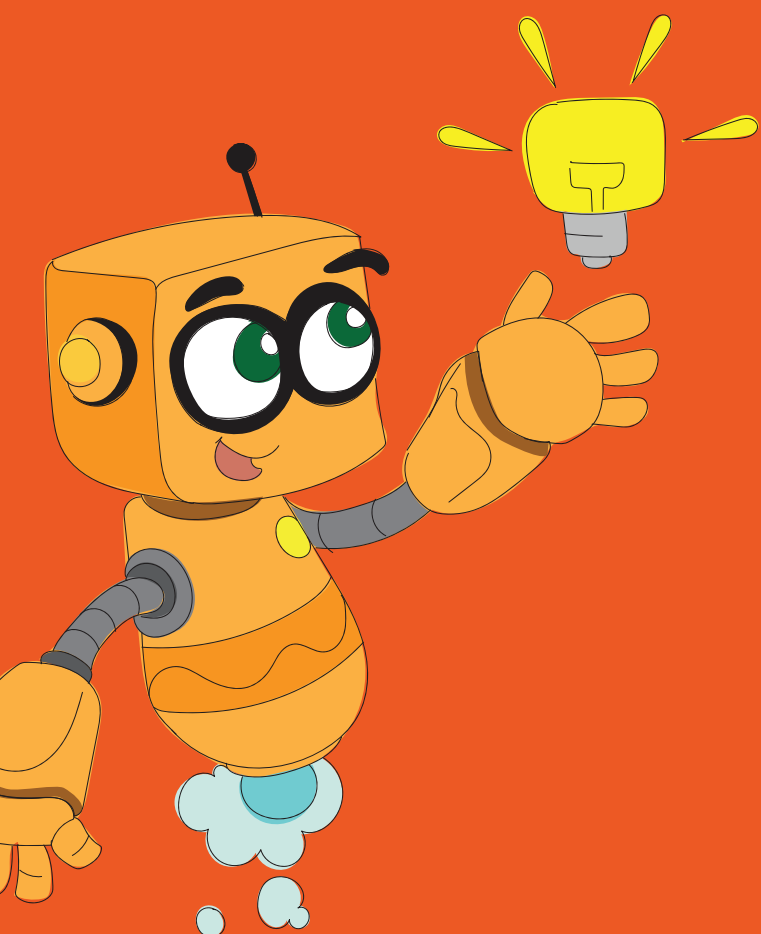


14
Funding Partners



5
Board

Program Milestones



Fundi Bots operates through three main pillars all amplified by the Fundi Girls program.

Fundi @SCHÖÖL

Fundi @School provides science learning resources within the school environment.

Fundi @WÖÖRK

Fundi @Work provides STEM focused workforce training and job placement for out-of-school youth and university students.

Fundi @HÔÖME

Fundi @Home avails resources to learn and practice science at home or during the holidays.

Fundi GÄÖRLS

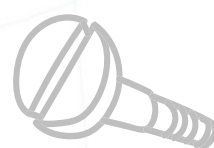
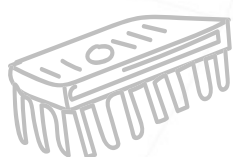
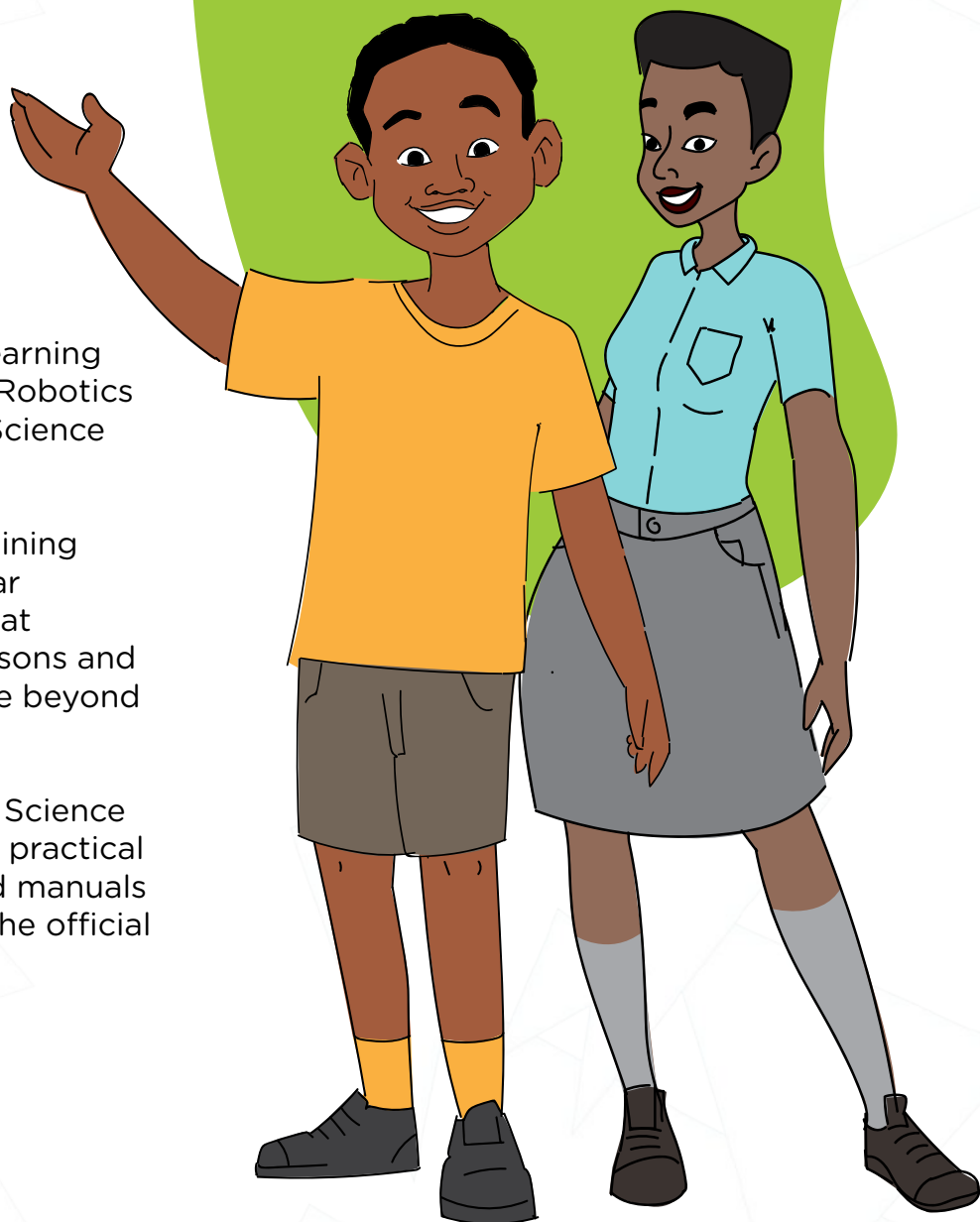
All supported and amplified by the Fundi Girls Program giving equitable access to high impact opportunities for girls.

These program pillars reflect how we carry out our interventions with a goal to provide practical hands-on training and project based learning experiences for students.

How We Transform Learning

Fundi Bots uses two main learning experiences that are STEM/Robotics training and the Enhanced Science Curriculum.

- Our STEM/Robotics training provides extra-curricular learning experiences that augment classroom lessons and prepare students for life beyond school.
- Through our Enhanced Science Curriculum, we provide practical tools, teaching aids and manuals that plug directly into the official National Curriculum.





Fundi @ SCHOOL

Enhanced Science Curriculum

At the start of 2022, we piloted the Enhanced Science Curriculum (ESC) in **33 schools** around the country. We also saw the unexpected addition of a school in the Northern Region where the head teacher requested for the ESC tools to be used in their school after seeing the tools being used in another school.

We had a target of training **66 teachers** through the Enhanced Science Curriculum program, but we exceeded it with **72 teachers** being trained and supported in the use of tools for science learning in the classroom.

The Monitoring and Evaluation team conducted a preliminary assessment that showed remarkable improvements in science learning, fostered by the ESC

curriculum. Some schools had up to **93% improvement** in science learning due to the curriculum.

The students and teachers also reported a more positive attitude towards science learning and even went as far as innovating beyond the curriculum to facilitate understanding of some topics. Teachers also expressed appreciation for the program because it moved away from the `boring` theoretical `talk and chalk` methods to more practical and exciting forms of pedagogy.

We were privileged to receive a team of professionals from the National Curriculum Development Centre. We shared our tools and instructional manuals with them and they completed an evaluation process which resulted in the approval and endorsement of our tools.



Robotics and STEM Training Program

Through the Robotics and STEM training program, we have trained **2,593 students** in outreach schools, and **135 students in integrated schools**. We have also created **71 clubs** in the different regions we operate in.



2,593

Students in
Out reach Schools



135

Students in
Intergrated Schools

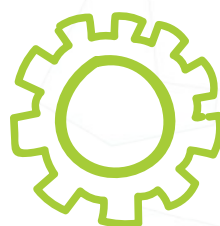


71

Science Clubs
Created

The team created a new curriculum for outreach robotics training which enables learners to develop soft and technical skills and is suitable for ages 10 and above. Reports have shown the curriculum to be effective for its intended objectives.

Lastly, we received an official endorsement from the Ministry of Education and Sports that enables us to operate in educational institutions in different districts around the country.





Comic Books

Fundi Bots produced 3 comic book issues (Floating Egg Experiment, Bouncy Egg Experiment and Converging Heat Experiment) for the *Science in Action* comic books with **1,500 copies printed** in total.

Before the bulk printing of the comic books, the team carried out pretest exercises to gather important information from the children on suitability, attractiveness, and understanding of the message in the comic book. The Fundi@Home team also observed how the children reacted to the comic book design and content, which informs our areas for improvement.

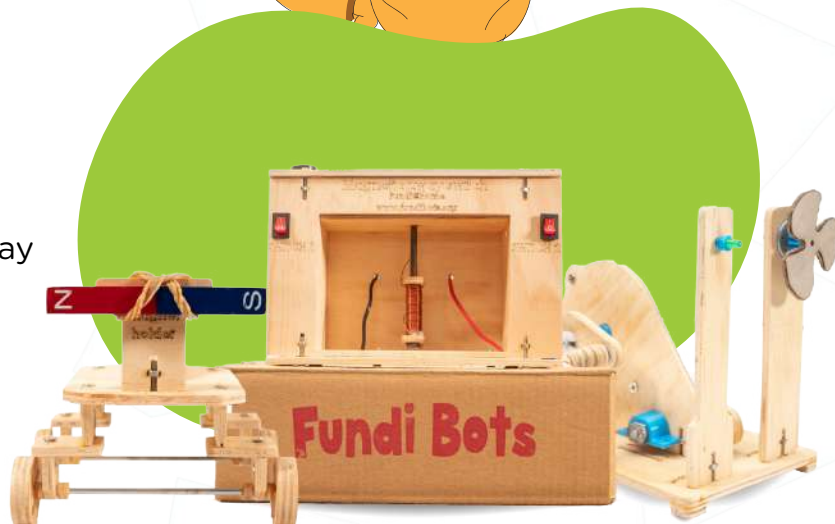
Fundi@HÔME

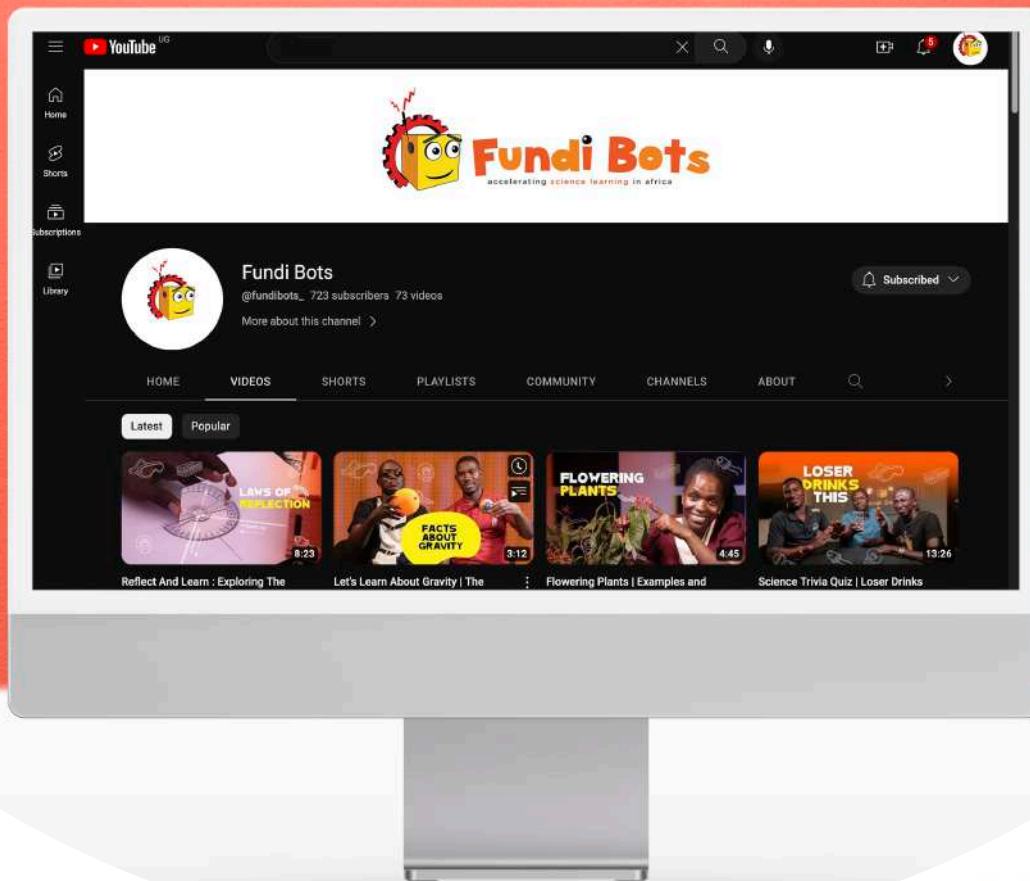
Magic Boxes

Three editions of Magic Boxes were produced with 50 copies of each issue.

- The Light Magic Box included components and lessons for students to build a smart house, and components to build a flashlight.
- The Pulley Magic Box included components and lessons to build a Robotic arm and Pulley
- The Magnetism Magic Box included components and lessons on how magnetic strength varies with a viscosity of a liquid, components to build a magnetic toy car, and a two-way switch.

Pretest sessions were also organized with students to ensure the Magic Boxes achieve their intended goals for both learning outcomes and student engagement.





Online Video Content

Fundi Bots produced and published 32 learning videos on the Fundi Bots YouTube channel. The video categories included:

- **Kids React**, which is a fun segment in which kids interact with uncommon items and technology
- **Meet the Scientist**, in which we host scientists who are experts in their particular fields
- **How Things Work**, which explains various concepts of science
- **Quick Science**, in which we conduct quick experiments to briefly explain a concept
- **Meet the Expert**, which interviews professionals in various fields about their work and careers

- **Fun facts**, In which we share interesting facts about the world and beyond

In a bid to enhance the quality of the videos, we set up a basic video production studio with noise control and upgraded lighting, which resulted in great improvement.





Fundi@WORK

Internship Program

Through our internship program, we have trained **92 (18 female) students** from a network of **13 institutions of higher learning** across the country. At the end of every cohort, the students are required to build projects and this year, it was exciting to see students create solution-oriented projects such as a garbage monitoring collecting bin, a seed planter, mobile irrigation system and an automatic water level system.



74 Male students
18 Female Students



13
Institutions of
higher learning

Out-of-School Youth Program

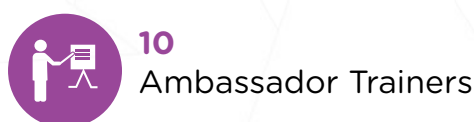
Eight students under the out-of-school youth program underwent a practical modular assessment by the Directorate of Industrial Training in Quarter 2. They were assessed in skills such as Computer Applications, Web Development, Cinematography, CNC Machine Operations, and Domestic Electric Installation.

We were also thrilled to receive a certificate of accreditation from the Directorate of Industrial Training. Fundi Bots is now officially a recognized training and assessment center for youth in communities to gain technical skills for employment.

However, we were unable to resume implementation of the Out-of-School Youth program due to an inability to raise program-specific funding. Nevertheless, the team continued refining the program, writing the curriculum, building partnerships with other organizations and having various conversations with prospective funders such as MasterCard Foundation, Coca-Cola Foundation, Fossil Foundation and the Livelihood Impact Fund.

Information Communications Technology (ICT) Teacher Training Program

We successfully completed piloting our ICT Ambassador Program which is aimed at enabling teachers to improve their pedagogy through using ICT. The Fundi @Work team worked with a team of **10 ambassador trainers** who reached 121 teachers (66 female, 55 male) across the country. We are currently working on writing a program evaluation report to ascertain the success of the program and provide more data for program improvement.



Robotics Training in Institutions of Higher Learning

The Fundi@Work team also started piloting a more intensive and lengthy robotics training program in technical institutions of higher learning. The program aims to provide more practical learning opportunities to students in these institutions. By the end of the year, the team was working with 4 universities and reached 38 students (16 female, 22 male).



*A primary goal for us in 2022 was to raise dedicated funding for the **Fundi @Work** and **Fundi Girls** programs through a joint training model for high school, tertiary institutions and out-of-school youth. We did not succeed in raising these funds, but the two teams improvised to continue providing whatever training they could do given the limited resources*



Fundi GIRLS

In April, we kicked off the pilot of the Fundi Girls robotics and soft skills training in 8 secondary schools around the country with a total number of 414 students. We also trained 296 students in 3 primary schools in the Northern, Western and Eastern regions.



414
Secondary
Students



8
Secondary
Schools



296
Primary
Students



3
Primary
Schools

The Fundi Girls team also carried out a mini robotics training program in 5 schools in Bidi Bidi refugee camp, Yumbe district. A total of 127 girls were trained. The major aim of the training was to introduce girls to a hands-on and practical approach to science learning and enable them to develop life skills such as innovation, creativity, and communication.



5 Schools
in Bidi Bidi
refugee camp



127
Girls trained



We also organised a three-day capacity-building event themed “The Future of Work for Women in STEM”. A total of **58 people** attended the event and were trained in both technical and soft skills. By end of the year, we had implemented the second phase of this project which involved organising group mentorship sessions with role models in STEM for the participants.

Lastly, throughout 2022, the team ran an advocacy campaign titled “Break the Bias” through which we had conversations about breaking biases towards women in different environments. We discussed real issues and possible solutions that can be used to create a more gender-equal world, particularly for women in STEM.

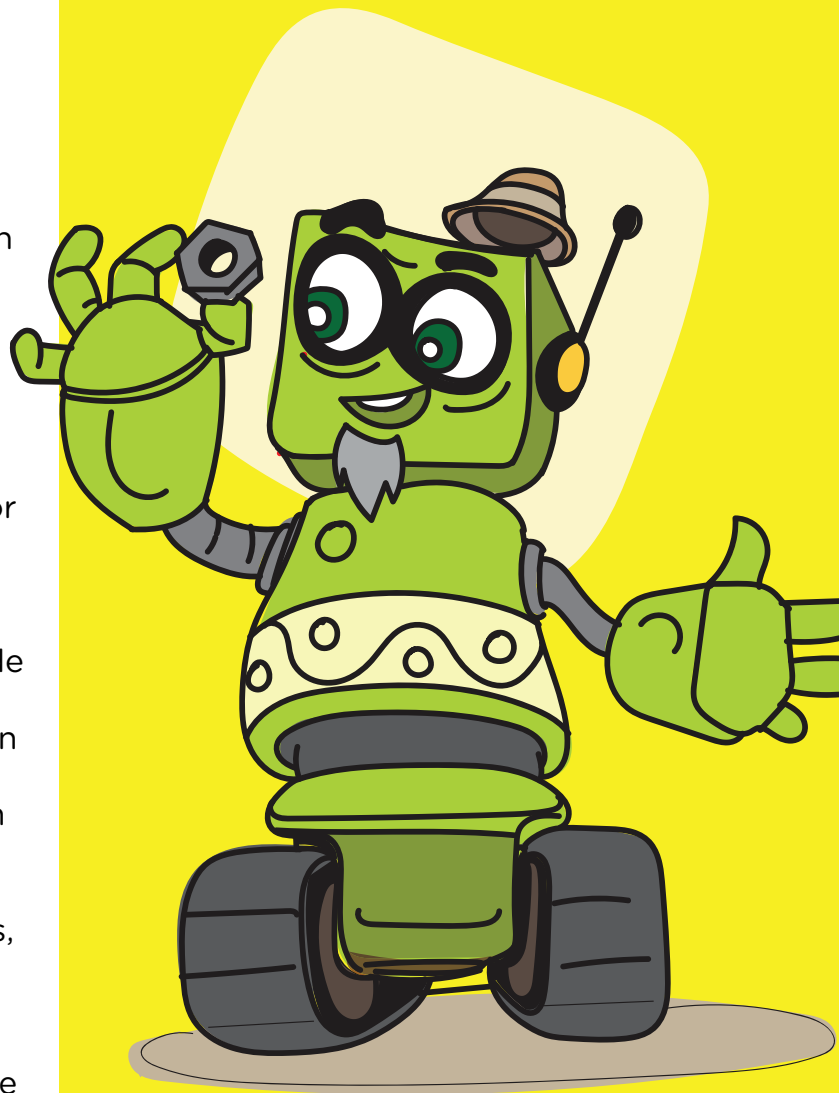
Monitoring and Evaluation

In 2022, our work impacted over **10,000** people across all our programs, more than we have impacted in the last 10 years. As the impact and scale of our work increases, so do the data demands, and we continue to plug the gap in our monitoring and evaluation, specifically with the availability of skilled personnel. To solve this, Fundi Bots has improved its monitoring and evaluation process to ensure continued and excellent evaluation of our programs.

We transitioned our metrics dashboard from Excel to PowerBi dashboard to show real-time data of our impact. We also continued having conversations with several advisors and potential partners for improved M&E systems.

Towards the end of quarter three, we recruited an external consultant to provide an independent assessment of our work. This support was facilitated by the African Visionary Fund. With the expertise of the M&E Consultant, Fundi Bots will ascertain the impact of the Robotics training and ESC programs in order to inform future programs, build government partnerships, acquire more funding and scale up our programs backed by evidence.

Finally, we were able to write and produce a few internal documents that describe the impact of our work; the most recent was a preliminary evaluation of the Enhanced Science Curriculum as we work towards a more detailed evaluation assessment report.

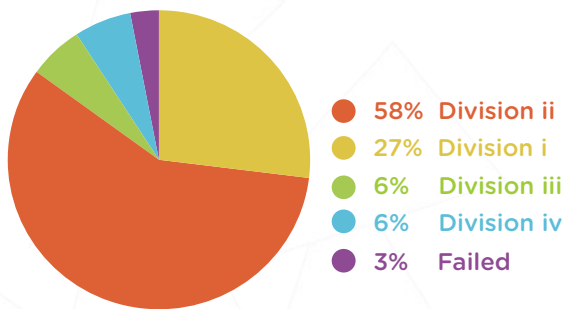




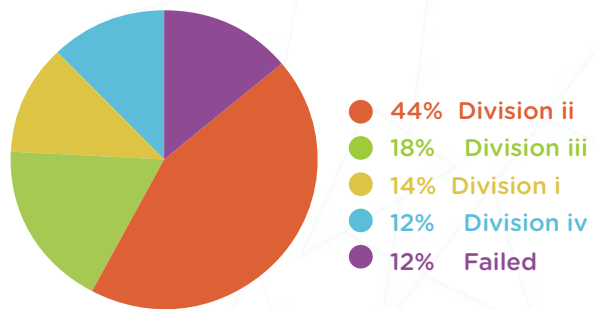
In 2022, 80% of learners were supported to pass school-administered tests and examinations through the Enhanced Science Curriculum.

We assessed the performance of 1,453 learners who sat Primary Leaving Examinations (PLE) in 2022 from the schools where learning is supported by Fundi Bots. We found as follows: 27% scored in division one versus 14.1% at the national level, 58% scored in division two versus 44% at the national level, 6% scored in division three versus 18% at the national level and 6% scored in division four versus 12% at the national level.

Supported Schools



National Level



The schools supported by Fundi Bots registered only 3% failure, versus 12% at the national level. In 2022, 89% of teachers in the schools Fundi Bots supported received training on how to use the learner-centered methodology.

Impact (Beneficiary Letters)

Fundi @School Enhanced Science Curriculum (ESC)

The Enhanced Science Curriculum, whose rollout started actively in early 2022, has been one of our greatest achievements and the impact has been immense. We witnessed continuous improvement of learners' development of skills especially in communication, critical thinking, teamwork and problem solving. This was evidenced by their ability to openly present their observations and to work together to achieve results during their learning activities.

“Nowadays, we enjoy and understand lessons. We also enjoy revising which has helped us perform during exams. We would like to thank you for playing a big part in our education. We are seedlings today but a forest tomorrow because of you.”

- Bethany High School.

“We also convince you that we are going to continue studying physics since everything is there for us to study in physics. Thank you for your generosity.”

- Mbazzi Riverside High School.

These letters warmed our hearts. Bethany High School and Mbazzi Riverside are some of the schools under our Enhanced

Science Curriculum (ESC) pilot program. The Fundi Bots ESC is our ambitious intervention to support, augment and amplify the National Schools Curriculum in Uganda as developed by the National Curriculum Development Centre (NCDC).

We also had one of the most exciting moments at Rock View School Tororo, during one of our visits. Five learners were randomly selected to explain the science concepts they were learning and how the Fundi Bots tools have come in handy.

These learners were able to articulately explain their lessons so far as well as give real-life examples.

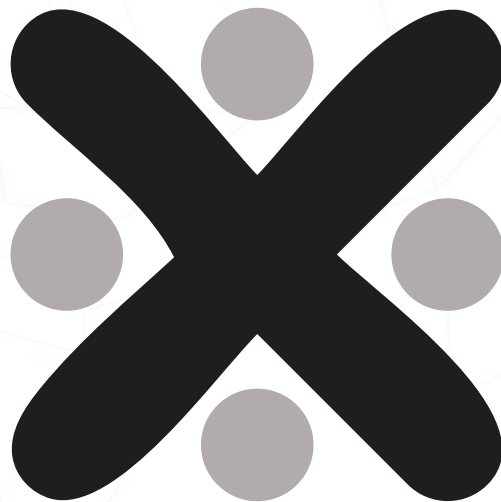
“The tools have now made learning more practical, easy, simple and exciting.” one of them explained. The headteacher and PTA treasurer who were present extended their sincere appreciation to Fundi Bots for providing their learners with these tools.

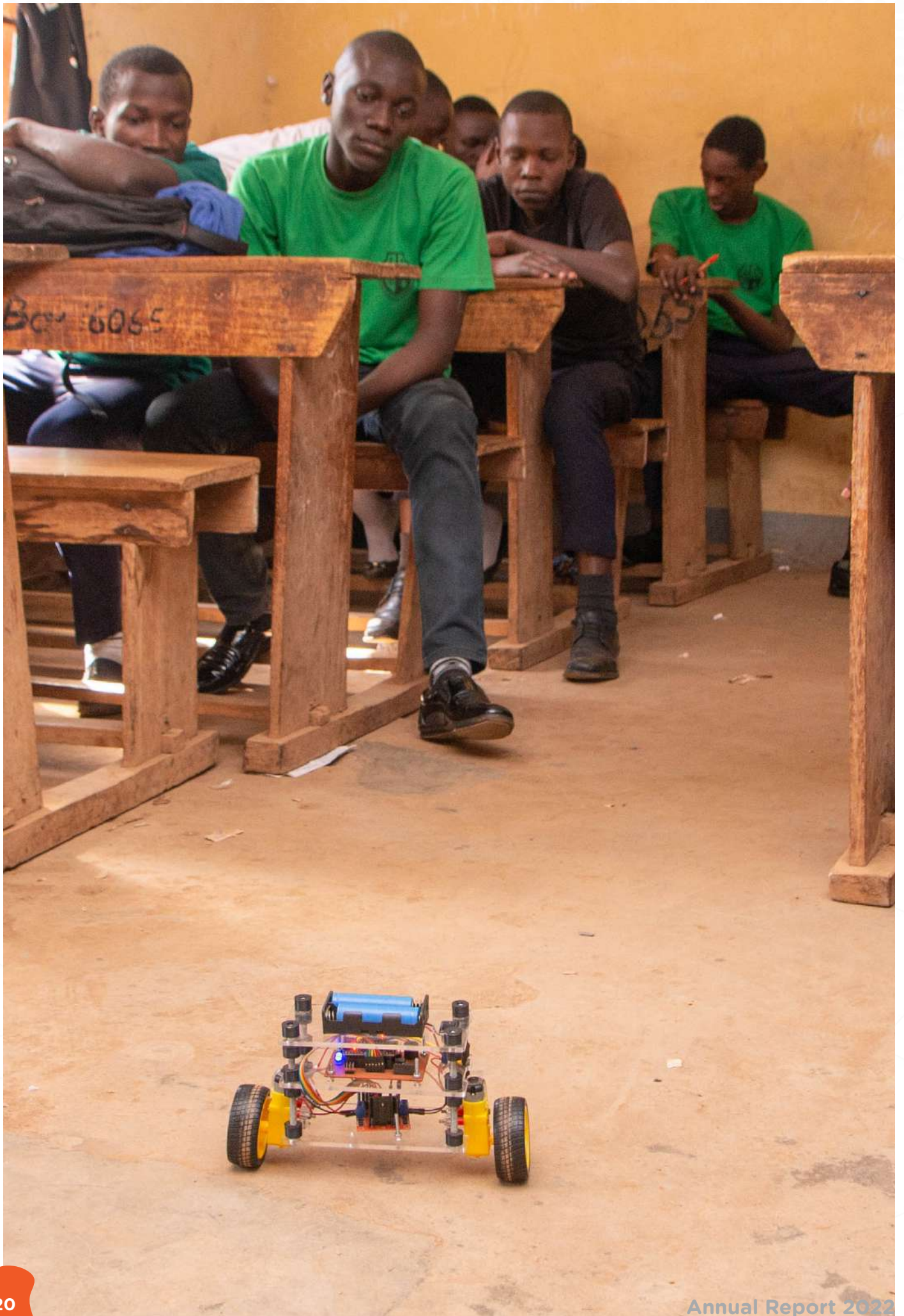
“Hands-on learning is the way to go,” said the PTA treasurer. The headteacher was equally mesmerized and all she could say was, *“Thank you so much Fundi Bots. I can't wait to see what these pupils will become in the future.”* Another achievement was when one of the NCDC Supervisors attended a class where our ESC tools were being used.

“I have been in different classes so far but I have not seen the learners engaged like this. What is the secret?” he inquired. The learners shouted “Fundi Bots!”. It was heart-warming and encouraging to hear that our tools are increasing learner engagement and improving their experience in the classroom.

It was such great feedback that reminded us why we wake up every day, defy the odds and show up because we know many young people out there are counting on Fundi Bots to make their learning experience better.

In one of our outreach schools Nama Umea Primary School, our contact person reliably informed us that our Robotics/STEM training program has enabled them to attract more learners to the school and as such, their population increased from **213 to 400** students in second term. They were so appreciative of the work we are doing in their school.





Communications (Media and events)

2022 was a year of creating systems and implementing existing strategies. We experienced tremendous improvement and revamping of our processes both internally and externally. A significant win for us was redesigning our website, which we believe is the first place most people interact with us and get well acquainted with our programs and interventions in Africa's Education space. The main goal was to structure it in a way that best reflects our work and strategic goals for 2030. You can check it out here: www.fundibots.org

Furthermore, our social media presence grew in ways that drew the attention of various stakeholders, partners and beneficiaries, which gained us their support as we continued to visibly reflect the impact of our work. In the second quarter of the year, we also unveiled a documentary on 10 years of Fundi Bots, capturing the highs and lows that have shaped our journey.

We launched a YouTube channel, designed to provide resources for children to learn and practice science at home through engaging and fun science experiment online videos. By the end of the year we had **600 subscribers with 9,000+ views**.

We also had quite a number of media engagements with great partners like 4040 (40 Days Over 40 Smiles), Ed Tech show on NTV and Pollicy Uganda. This gave us the awesome opportunity to showcase our work and network with like-minded people in the education space harnessing the power of collaboration.

We also had the opportunity of attending the Innovation Fireplace chat organized by the Media Challenge Initiative (MCI) Hub, as well as the National Science Week organized by the Ministry of ICT. This was a great success and attracted media publicity as well as stakeholder interest from national television broadcasters like NTV and TV West among others.

The Fundi Bots Robotics club students of Comboni College created a solar concentrator project that wowed not just the Fundi Bots team but the country at large. The project went [viral on social media](#) and was covered by the media as well.

Additionally, Fundi Bots was featured on CNN Inside Africa in a segment titled "The pioneers revolutionizing education in Uganda" alongside other education organizations like Yiya Solutions and Kaino Africa. You can watch it here:

<https://www.cnn.com/videos/tv/2022/06/23/inside-africa-uganda-education-technology-spc.cnn>

Partnerships

We had quite a number of partnership engagements with government institutions, donors and other actors in the education space as detailed below.

- Our team visited the Ministry of Education and met the Commissioner for Private Schools and Institutions for Higher Learning alongside other officials.
- We have had several engagements with government institutions like National Curriculum Development Centre, Kampala City Council Authority and Uganda National Council for Science and Technology.
- Our partners Orkeeswa Secondary School, Tanzania visited our head office for a tour. We then sent two of our team members to support them for a couple of weeks in setting up their robotics program. We also hosted and trained one of their teachers in robotics so they could have a staff member fully trained by us.
- We worked with Pollicy to support them with the implementation of the Digital Ambassadors Program which is set to equip young people in institutions of higher learning with digital skills. We trained 50+ young people from two universities in robotics. We also worked with Pollicy to conduct one-day robotics training at their annual Data Fest conference in Mbarara, Jinja, Gulu and Kampala.
- The Fundi Girls team also worked with Akira Chix, Kenya to support them in recruiting young women from Uganda to apply for their CodeHive technology training program.
- We hosted two of our funders: the African Visionary Fund and Partners for Equity for an in-person site visit at Fundi Bots.
- We took part in the Regional Education Learning Initiative in East Africa (RELI) Uganda strategic planning to discuss and build the plan for RELI 2023-2025. RELI brings together education-sector NGOs, CSOs and civil society players to innovate, research and advocate for better learning outcomes for Eastern African children.



Human Resource and Talent

In 2022, the Fundi Bots team grew enormously, with the addition of 77 new staff bringing our total to 115 Fundis. Most of the newly recruited staff were Teaching Associates, Rollout Support Staff and Production staff.

We also worked on streamlining our HR processes, specifically our quarterly Key Performance Review (KPI) to ensure competency and efficiency. Additionally, to evaluate and improve our internal capacity, we distributed an Organization Capacity Assessment Tool to the team whose responses were our resonance towards improving our strategies and implementing changes to our operations.

Furthermore, we secured a wellness grant from Imago Dei Fund at the start of the year, and which enabled us to provide mental health support to our employees. Since the beginning of the year, the wellness organisation had 64 sessions with 18 employees and brief advisory calls with 17 other employees.

As part of our leadership and management capacity building growth plan, we held a two-day retreat for our Management team facilitated by Africa Executive Leadership Solutions. The intention for this training was to improve teamwork and collaboration between programs and operations teams amidst our rapid growth.

One World Children's Fund offered training material through a mini-course on leadership transition and succession planning, which was a great way to jumpstart preparation, delegation and team empowerment for our management team that we believe will trickle down to the rest of the team.

Overall, we continued to develop and refine internal structures to protect our beneficiaries, build talent and nurture a healthy working environment by improving and developing guidelines and policies such as child protection, employee handbook, hybrid working policy, leadership training and talent development among others.

Expansion and capacity growth

In March 2022, our Kampala office finally moved to a larger and more dynamic space that caters for the multiple facets of our work. This includes training spaces, hardware production facilities, media production set and staff offices.

The new space also provides significantly increased capacity for technical production staff, mass product replication, manufacture and storage for the Enhanced Science Curriculum pilot which will help reduce the production bottlenecks we have experienced over the last couple of years.

Additionally, towards the end of the year, our Mbale regional office also relocated to more spacious premises to allow for growth and expansion in the eastern region.



Fundraising and Finance

We significantly improved our fundraising process which enabled us to raise **\$934,592** in funding in 2022 from both old and new donors. Towards the end of the year:

- o We welcomed SAS-P Foundation as a donor committing committing 80,000 EUR)
- o We had final-stage due-diligence with DRK Foundation and Personio Foundation
- o We had mid-stage conversations with prospective donors such as Livelihood Impact Fund, Mastercard Foundation and Fossil Foundation
- o We generated **\$17,218** in internal revenue



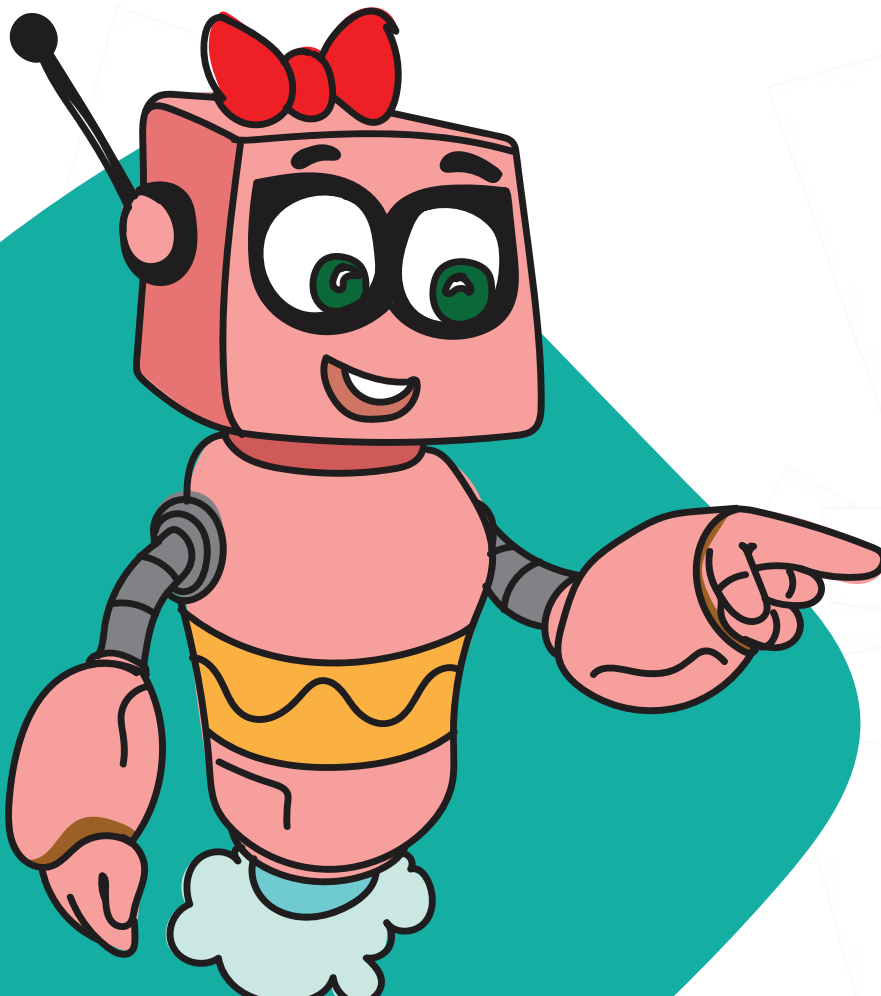
\$934,592
funding



\$17,218
Revenue Generated

Our goal for 2023-2025 is to fundraise for a consolidated \$5M-\$7M funding round. We are grateful for the support our past and current funders have given and continue to give us.

We also introduced a newsletter called The Captain's Log which aims to provide insight into what we're up to, where we're thriving, where we're facing challenges and what exciting new things we're dreaming about for the education of Africa's children.



Budget Snapshot

Income	USD
Donor Funding	934,592
Robotics Classes	10,762
Other Local Revenue	6,456
Total Income	951,810

Expenditure	USD
Salaries and Wages	446,710
Medical Insurance & Welfare	2,432
Rentals	19,195
Security	17,655
Equipment and Machinery	72,744
Administrative and Office supplies	26,427
Research and Development	3,906
Program Activities	81,733
Inventory & Components	63,243
Outreach Activities	13,041
Training of Teacher Activities	6,537
Transportation & Travels	17,786
Fixtures & Fittings	45,127
Professional Fees	6,310
Branding & Printing	15,673
Taxation & Statutory Obligations	37,690
Other Sundry Expenditures	12,451
Total Expenditures	915,438

Net Surplus/ Deficit	36,372
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Major challenges

External Circumstances

The global economic recession had a pernicious impact on the organisation's operations. We had to reduce operational costs to ensure that we can meet our financial obligations to our employees and beneficiaries. We are grateful to our donors who stepped in to provide additional support to ensure that we can keep fulfilling our commitments and objectives.

Our fundraising process was also impacted and we saw prospective and current funders change their strategy to respond to the world's humanitarian crisis. However, Wellspring Philanthropic Fund committed to funding us for another two years for a larger grant, making them our current largest funder. It is important to note that the fundraising team continued to aggressively work to raise more funds and ensure we build a financial cushion for longer-term runway that will enable us to operate smoothly.

We are also constantly working on ways to ensure we are financially sustainable through revenue activities. After a two-year break from active work, we restarted some of our paid programs and are on track to generate \$17,218 in revenue from internal income by the end of 2022.

Financial and Resource Limitations

One of our biggest barriers is financial. Because our tools have a high physical-engagement model, the need for both the number of practical learning tools and trainers is high. We are testing multiple models that will reduce demand for staff/trainers, but the requirement for physical tools will only keep growing. We need capital to invest in pilot programs, production capacity and scale programs.

Additionally, the financial situation has mostly affected programs like Fundi @Work and Fundi Girls which have had to delay the start of certain program activities and also reduce the number of beneficiaries due to a lack of resources like computers, and skilled people.

Furthermore, other departments like Monitoring and Evaluation, Programs and Production also require additional skilled talent to make sure they are meeting their targets. We're talking to current and potential funders for additional capital to support improvement in payroll and recruitment of senior leadership.



Fundi @School Challenges

As part of the standard government teacher transfer, some of the teachers we had trained for the implementation of the Enhanced Science Curriculum were transferred to other schools in which we were not piloting our program. This meant that we needed to train more teachers in the classroom which affected initial program implementation.

In some schools, teachers lost morale for the program because they were not being paid by the school administration/government. As such, they lost the motivation to keep on going the extra mile of using tools even though they attested to the usefulness and effectiveness of the tools and manuals.

Another challenge faced was that of limited storage facilities at the schools. Most schools could not afford to set up a storage facility for the materials. This affected the quality of tools that were damaged by rain, termites or rust.



Kaizen Moments

Monitoring and Evaluation

As we continue to grow and scale, the need for more rigorous monitoring and evaluation processes increases. Given the constantly-evolving nature of our work, we have to continuously explore new assessment methodologies to enable us to show the impact of our work in real-time and over a longer period of time.

We have been conducting numerous M & E exercises, the most important being the internal/external evaluation of the current Enhanced Science Curriculum pilot and the other being a retrospective evaluation of past beneficiaries to study the impact of our work so far.

As we go forward, these two exercises will determine the scale and scope of the adoption of our work by the larger partners we are targeting, such as ministries of education and other multilateral players like UNICEF and the World Bank.

Finance and Fundraising

In retrospect, our financial challenges forced us to be efficacious and maintain the provision of excellent and impact-driven services and products even with the existing limitations on available resources. For example, the Fundi Girls team was able to meet almost all of its school-based targets despite resource limitations.

Partnerships

We are learning to adapt and improvise with the protocols and procedures when working with educational institutions while still remaining firm and focused on our deliverables.

Looking Ahead/ Future Plans

Our ten-year goal is to accelerate science learning and skills training for one million African children and youth by 2030 through our three updated program pillars: Fundi @ School, Fundi @Home and Fundi @Work, with support for equitable access for women and girls through the Fundi Girls program.

In 2023, our goal is to see:



11,000

Students accessing better science learning through our Enhanced Science Curriculum



50

Pilot Schools. We are expanding from 30 to 50 pilot schools



5,500

Students accessing STEM/Robotics training in schools



530

teachers trained. 100 science teachers on the Enhanced Science Curriculum and 430 teachers in ICT skills



620

Youth prepared for work in STEM fields through Fundi @ Work program



1,350

girls accessing dedicated equitable and practical resources and learning opportunities



54,000

Children accessing science learning resources from home

Conclusion

The dream of Fundi Bots is one that lives on beyond our Founder, team and partners. It is one that everyday people get to experience in ways that slowly begin to shape the trajectory of their lives. And as they say, some experiences don't leave you the same, especially those that you get to witness first-hand. We strongly believe that our beneficiaries can attest to this, and we, too, have been able to see the incredible impact.

From witnessing shy students become braver as they present their projects, to hearing reports of students who were once not doing so well in class having improved grades, to having teachers able to practically improve their teaching method and, best of all, seeing more and more children getting interested in science and understanding it more; this is something worth writing home about.

And as we like to say, onwards and upwards. #WeareFundu

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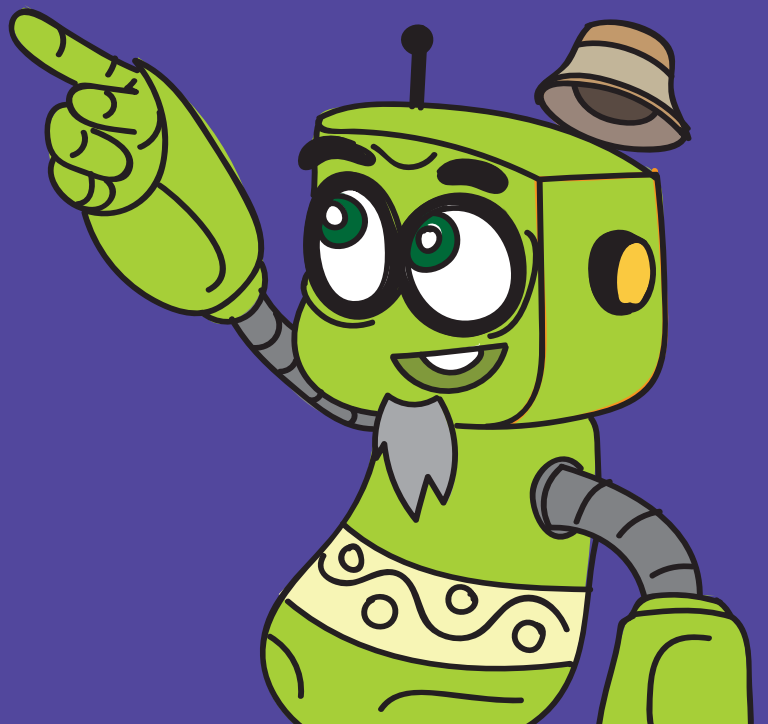
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