



Jāngala

Annual Report

2021 - 2022

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Director's statement

The last year has held many highlights for Jangala: wider global deployments, expanding our team with new colleagues and trustees, and winning Cisco's Global Problem Solver 2021 Digital Inclusivity Prize. One of the most fantastical was the honour of participating in the opening ceremony of the UN's Global Goals week at Expo 2020. Under the grand kaleidoscope of the Al Wasl Dome in Dubai, the Deputy Secretary-General of the United Nations, Amina Mohammed, offered a sobering diagnosis:

"For the first time in a generation, extreme poverty and hunger are rising again, the gap between the rich and poor is widening, gender inequality is worsening, the economic and financial situation in many developing countries is deteriorating. Meanwhile, the world continues to career towards climate catastrophe, barely keeping alive our 1.5-degree world target."

Just weeks later, war erupted in Ukraine, killing thousands, displacing millions and spiking global prices of food, fuel and fertiliser, magnifying Deputy Secretary-General Mohammed's dire assessment.



RICHARD THANKI

Managing Director

Director's statement

Over the following pages you can read how Jangala is working on providing much-needed connectivity in settings all around the world touched by the current crises. This year we will complete important improvements to our products and services allowing us to rapidly scale our deployment ability in the years to come. None of this would be possible without our long-term supporters like the Lenovo Foundation, Arm, the CHK Foundation, Tedworth and Cuckoo; new sponsors like Virgin Media O2; and the hundreds of individuals who step up each year to support our efforts.

Deputy Secretary-General Mohammed ended her Expo address with a powerful statement of optimism. "The pandemic has powerfully demonstrated just how interconnected our lives are, our economies and our futures, and how much we depend on international solidarity and effective inclusive multilateralism." Here at Team Jangala, we couldn't agree more!





About Jangala

WHO WE ARE

Jangala is a humanitarian tech charity enabling vital internet access worldwide. Since 2015, we have connected 50,000 people in healthcare clinics, schools, refugee camps and emergencies in partnership with aid agencies, grassroots groups, the NHS, UK schools and more.

MISSION

Jangala's mission is to connect every school, clinic and community resilience project worldwide with internet access, so societies everywhere can meet the pressing challenges of today and the uncertainties of tomorrow.

VISION

Our vision is to make universally accessible technologies that help people build better futures.

LOOKING AHEAD

We are aiming to connect another 80,000 in 2022, scale our technology by 2023 and connect millions of people by 2025.

Impact highlights

16,439

people directly connected

15

Big Boxes deployed

90,000

people impacted by improved services

164

Get Boxes deployed

Jangala's year

Highlights from a busy year

Summer 2021

- The team took part in a 10k race, raising £785
- We incorporated the Raspberry Pi into our Big Box design
- We used Get Box to connect emergency housing for women in Essex
- Two summer interns, Emily Burt and Salah Chaaban, helped us progress the ingress protection and PCB design of Big Box.

In June, we were named the Digital Inclusivity Prize winner in the Cisco Global Problem Solver Challenge 2021!

Out of over 1,700 applicants, Jangala won this prize in recognition of our work bridging the digital divide. Check out our winning video submission [here](#).



Autumn 2021

- We sent five Get Boxes to Nigeria in our first overseas Get Box deployment
- We expanded our successful project with the NHS, providing a further 30 Get Boxes in addition to the 5 delivered last year
- We sent a Big Box to the Future Builders Library in Ghana

In 2021 we expanded our presence to Oceania with our deployment of a Big Box to the Fiji Water Foundation, who are testing Big Box's viability to connect schools and villages.

Jangala's year

Winter 2021

- We began our trial with Unicef Sudan, who are testing Big Box as a data gathering tool
- Our new User Interface launched, meaning partners can access real-time metrics on Big Box performance
- Our online Christmas party raised £3,500!
- We sent two Big Boxes sent to Nepal to connect remote healthcare clinics

We're very grateful for the support of our strategic partners who provided much-needed technical and organisational support last winter.

This included a secondee from Arm, who joined to support with our tech development, as well as hackathons with our partners Lenovo and Cuckoo to brainstorm tech, and UI, branding and usability issues respectively.



Spring 2022

- Our dual modems went live, boosting Big Box's speed and reliability considerably
- We started our largest ever Get Box deployment with The Access Project, delivering 120 of them to connect their students

In January we showcased our work at the Dubai Expo as part of their Global Best Practice Programme!

We exhibited our work for a whole month, spoke at key events including: at the Global Goals General Assembly; a [panel on human-centred design](#) alongside the WFP's Head, Bernhard Kowsatch; and another on [Closing The Digital Divide](#).

The team

Operational team



Richard Thanki
Managing Director



Nils O'Hara
Head of Finance &
People



Samson Rinaldi
Head of Design &
Manufacture



Anna Hickman
Head of Operations

Trustees



Kip Meek
Chair



**Lucy Symons
-Jones**



**Bee Hayes-
Thakore**

New hires



Chris Punt has joined us as a **Software Associate** to support software design. Chris is a self-taught coder with a passion for learning. He spends his spare time working on various side projects, including a Google internal project used for the documentation of internal systems.

John Cleasby joins us as **Head of Software**, leading the build of our new partner metrics system which will help us to better capture, measure, and report on the impact of our systems in the field



Heather Morris is our new **Fundraising Associate**. With experience in communications, PR and marketing across the public and private sectors, she is working on building our income alongside completing her MSc in Environment, Politics and Development.

Paul Mans has joined our **Board of Trustees**, bringing his wealth of experience in business and technology, after building an electronics company, CP Electronics, from scratch into a major international firm



CASE STUDY

From a trial to a trust-wide Get Box loan scheme with an NHS trust



Not being able to use technology can feel disempowering and shameful. The ease of setting up [Get Box] may seem like a small thing, but for many clients, it was extremely empowering



Noor-Alhuda El-Amin, assistant psychologist at Camden and Islington NHS FT

When the pandemic struck in 2020, charities, schools and public services faced the urgent challenge of delivering their services online. This was particularly acute for healthcare professionals when lockdown threatened the mental wellbeing of their clients, especially those who didn't have internet access. Two clinical psychologists at the Camden and Islington NHS Foundation Trust's Traumatic Health Clinic reached out to Jangala to see if our newly designed Get Box could help, so we began a trial to test Get Box as a solution to their needs. In the 18 months since, we have expanded the trial from five systems to thirty, paving the way for a Trust-wide device loan scheme.

Now, anyone in the Trust without the means to get online to access their NHS treatment can apply for a Get Box and a device.

"Access to healthcare is a basic human right, and if everything including healthcare is going remote, access to the internet should be ensured," Dr Julia Gillard, a clinical psychologist at the trust explains. "Not only that, but bringing therapy into the home can be a huge advantage for those suffering with mental health disorders. They are no longer required to leave their comfort space; support can come to them. There is a solid rationale for remote therapy to continue in the future. But we need to keep the focus on connectivity for us to truly reap the benefits."



CASE STUDY

Connecting 1500 students at the Good Samaritan High School

“

The internet box has solved a problem that we have been dealing with for years, both students and teachers are super excited about this. The students can now access the internet in the computer lab, teachers can access the internet for their research and we also have access in the library.

”

Joshua, Project Manager at the Good Samaritan Ministries, Uganda

The Good Samaritan School in Kampala, Uganda supports over 1500 students across its primary and secondary school. Students are typically from particularly disadvantaged backgrounds in the surrounding community.

When the Good Samaritan School approached Jangala in 2021, they had a computer library to equip their students with digital skills to build their employability, but no Wi-Fi to make the most of these devices.

In early 2022, Jangala sent the school a Big Box, which included two of our latest features to help partners use and improve the Wi-Fi efficiently: our recently launched User Interface which helps partners understand their Wi-Fi experience in real-time; and dual modems, so partners can harness the improved speeds delivered over multiple SIM cards.

Internet access for the school, which includes a separate network for the teachers as well as the kids, has meant that the scope of the digital skills classes taught can be expanded to cover the latest online learning and resources.

CASE STUDY

Connectivity for refugees in France



Before we got the Jangala Wi-Fi, people were entirely dependent on using it in a restaurant or café [...] even if we run out of money for everything else, we'll still be running phone charging and Wi-Fi



Charlie, Founder, Mobile Refugee Support, France

Jangala began its journey in the Calais Jungle. In late 2015, our founding members came together to build a network to cover the refugee camp of 20,000 people. This initial installation sparked the idea to create Big Box, to lower the barriers to getting people and charities online in humanitarian emergencies.

In 2022, we are still working in Calais. We deployed our most recent Big Box design to three grassroots groups, including our long-standing partners Care4Calais and Mobile Refugee Support, who we've partnered with since 2018 and with whom we've connected thousands of refugees. We also made our first deployment with Roots, who also carry out critical needs support to refugees in and around Calais. Together, the three charities work round the clock to deliver food, shelter, medical support and charging and Wi-Fi capabilities.

Over the years, we have connected nearly 10,000 people with these three charities and we're proud to keep working with them.



Product highlights

Over the last year Jangala has made great progress with the systems we use to provide connectivity.

We've completed a new version of Big Box we call 0.9. This is the first Big Box that features twin modems, which are being used to provide a faster and more reliable connection. It also features our new local UI that is already helping make installation and maintenance of Big Box easier and faster.

On the software side, we now have a single codebase for Big Box and Get Box, allowing for easier development and debugging. We've also spent substantial effort putting in place our cloud architecture that will allow us to support thousands of devices in the field.

An exciting project that will come to fruition this year is our creation of a rugged version of Get Box. This small battery powered system will allow us to cost effectively connect low-resource and challenging situations with smaller numbers of users.



Looking ahead

The next year promises to be our most impactful year to date.

We plan to deploy 300 Big Boxes, 1000 Get Boxes and 10 Rugged Get Boxes, alongside Lenovo laptops, across 5 continents. Notable deployments already being planned include:

- Connecting schools in the Democratic Republic of Congo through our existing partner, CEAFP
- Connecting a school and women's skills centre with ALIG Society in India
- A partnership with the Ministry of Education in Zambia to connect schools
- Connecting rural healthcare clinics in Ghana

Excitingly, this year will see the first tests of a new product developed in association with Lenovo, our major global strategic partner. Lock Box will act as an internet accelerator for schools and other settings that have limited connectivity, allowing for up to 10 times as many users to make use of any single connection. We will be deploying 5 test systems by the end of the year.



Since I received Wi-Fi support from The Access Project, I've been able to keep on top of homework, revision and my tutorials. My grades have improved massively.



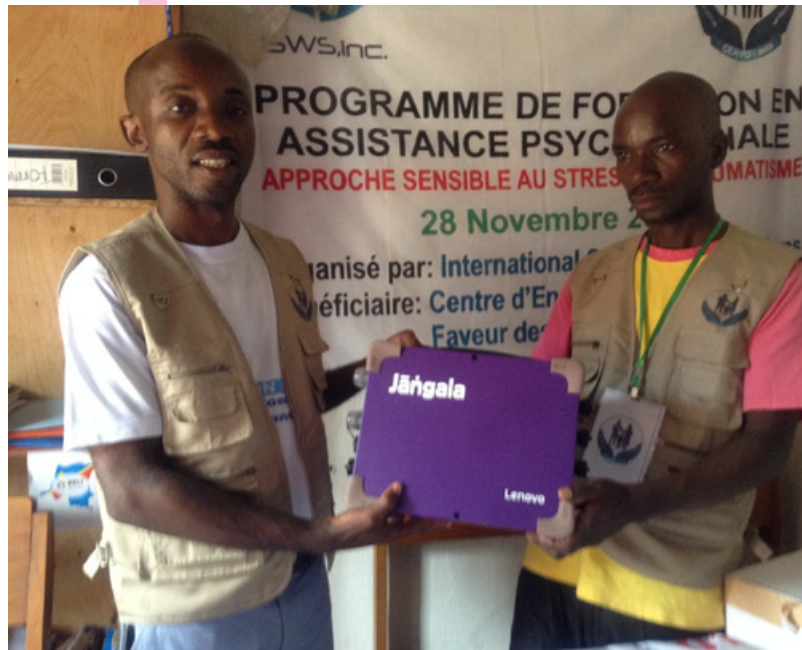
Student, The Access Project, UK

Looking ahead

In association with Virgin Media O2, we will be establishing our emergency response programme. Our first deployment under this scheme will be multiple systems assisting with the humanitarian response to the Ukraine War.

After substantial R&D, supported with resources and expertise from Arm, Big Box will reach version 1 this year, the first version that we will be able to produce in the many hundreds.

This will be an exciting milestone for a journey that began 5 years ago. The Jangala team will also be growing with new hires to support our booming number of projects and more advanced technology.



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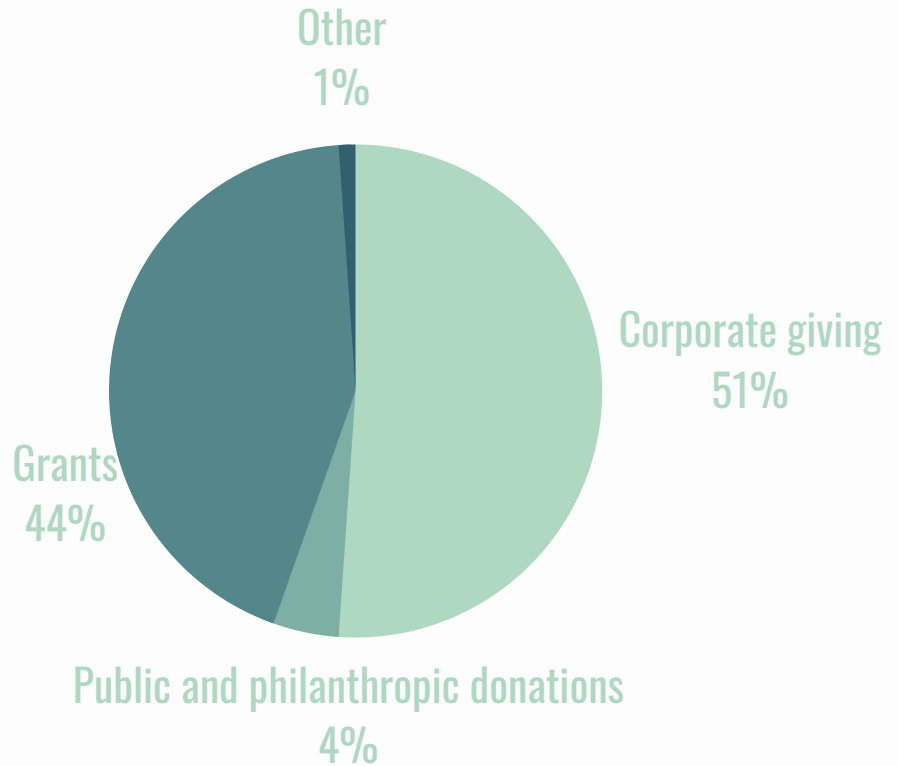
Big Box, computer and tablets will not only boost our computer learning program and access to the internet, but they will also contribute to the improvement of children's education, fight against digital illiteracy and non-access to online opportunities, a factor of 80% of unemployment among young people in Uvira

”

Mussa Fazili Moise, President, CEAFPD, DRC

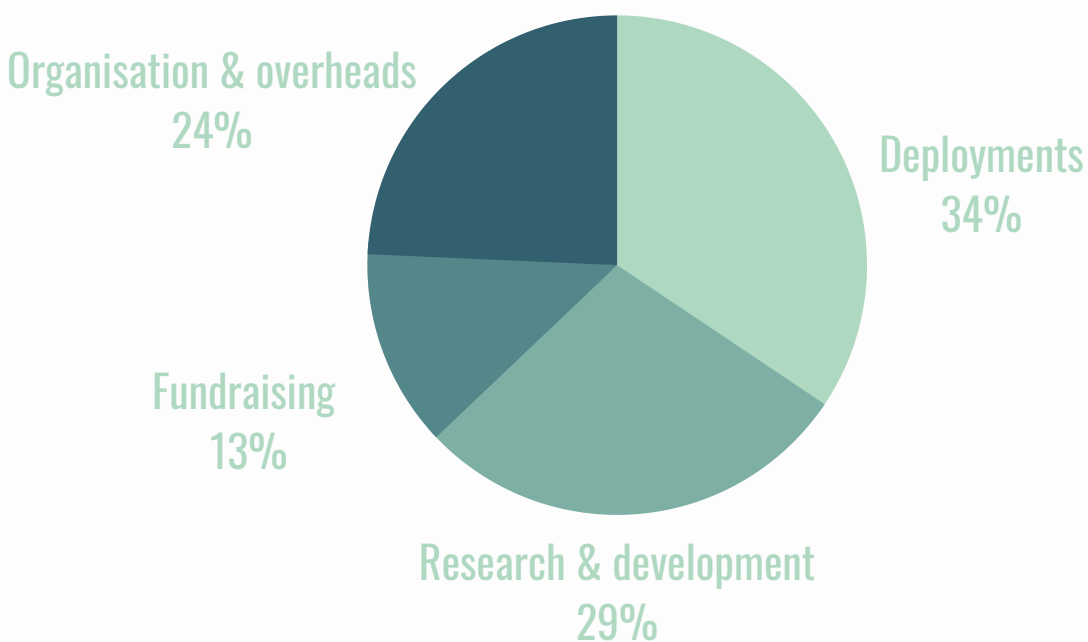
Finances

Income - £301k*



**Jangala's total income in 2021/22 was £301k, an increase of £8k on the previous year*

Expenditure - £351k*



**The difference between our income and expenditure was drawn down from reserves and funds carried forwards from 2020/21*

Thank you

Over the past year, we have been the grateful recipients of the generous support of a number of funders, all of whom have contributed in crucial ways to helping us connect vulnerable people worldwide.



Foundation



Phone Credit for Refugees





We at Jangala would like to acknowledge the contributions of the people who have worked tirelessly to help us deliver impact where it's most needed.

Our trustees, advisors, consultants and wider supportive network of friends of Jangala.

Our colleagues from our current partner organisations from the last year mentioned in this report, as well as our longer-standing partners.

Our generous donors.

We thank you all for your continued support in our efforts to build and deploy universally accessible technologies that help people build better futures.

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