



2024



Lalumwe Pack,

It's with more gratitude than we can adequately express that we thank you for your incredible support of our work in Africa this year. Thanks to you, 2024 has created some of our greatest impact yet, and we are thrilled you were a part of it. Your contribution has made a significant difference, and we hope you feel proud of what we've achieved together.

Our focus this year was using innovative technology to solve the negative health impacts of poverty in rural Zambia. We introduced a portable ultrasound device to lower mortality rates of mothers and newborns and lifted clean water from the earth for domestic, healthcare, and small-scale farming use.

While we have been doing this for over 5 years now, this was, by far, the best work we've done. Thank you for making that happen.

With gratitude,

Co-founders Adam, Craig, and Mike
(Pictured from left to right)



Welcome To Zambia, Africa.

Heart and home of Lalumwe's efforts in 2024.



THE COMMUNITIES YOU SERVED
RESIDE WITHIN AN INSANELY
BUMPY HOUR-LONG DRIVE
OUTSIDE THE CITY LIMITS OF
**LIVINGSTONE,
ZAMBIA**, THE HOME TO
ONE OF THE SEVEN WONDERS OF
THE WORLD: VICTORIA FALLS.



SOMEWHERE ON THE OUTSKIRTS OF LIVINGSTONE, ZAMBIA



Mukuni Village

Periurban village on the outskirts of Livingstone



LALUMWE SOLAR PANEL POWERING
ON-DEMAND WATER

Mukuni Village

THE NEED:

The closest source of clean water was a hand pump located roughly 2 kilometers from the center of town. Women and young girls were responsible for fetching water 3+ times each day. While the hand pumps do provide fresh water, they are prone to breaking through use and wild animals. Elephants sense the water and destroy the pump trying to get to the source. This throws the entire village back into a water crisis.

OUR SOLUTION:

Lalumwe installed a solar panel pump at the borehole site with enough power to pump water uphill to access taps in the center of town and well beyond for future taps and irrigation needs.

THE IMPACT:

By placing on-demand taps at the center of town, girls and women save at least three hours daily, providing them time for education and other income-producing opportunities. This source also provides clean water for over 500 people.





Namatama Clinic

Piloting Lalumwe's portable ultrasound solution
in a periurban health clinic outside of Livingstone

LALUMWE'S FIRST SCAN UTILIZING THE BUTTERFLY ULTRASOUND TECHNOLOGY



Namatama Clinic

THE NEED:

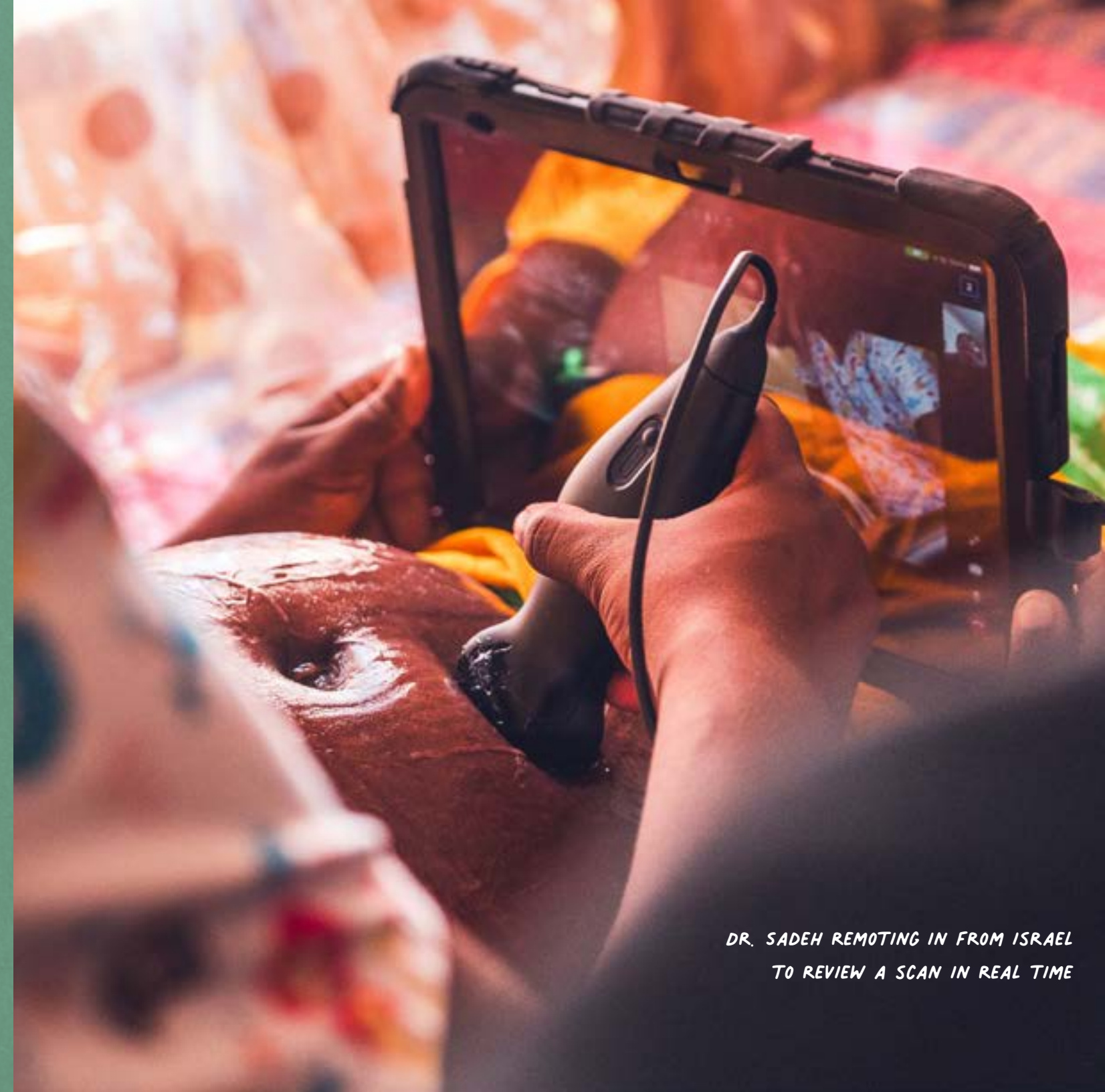
In 2023, we learned in our meeting with the Zambia Ministry of Health that the city of Livingstone only has 3 traditional ultrasound machines to scan expectant mothers each year. As a result, many mothers travel miles (sometimes 5+) to receive prenatal care. This difficult journey across challenging terrain in combination with affordability issues results in high mortality rates in mothers and babies from the lack of proper care.

OUR SOLUTION:

Lalumwe introduced a mobile scanning technology to the Namatama Clinic that allows nurses to bring ultrasounds to the mothers in the rural areas that the Clinic serves. Operated on an iPad, the scanning app gives the technician the ability to remote in doctors from all over the world for review of complicated cases.

THE IMPACT:

Local partners are now engaged in continuing education and will be scanning 400+ expectant mothers throughout the year in the Namatama Clinic service area. The pilot program has been so successful that the Zambia Ministry of Health has asked Lalumwe to increase the number of scanning units as a leading solution in the Country's goal to drastically reduce infant and maternal morbidity.



*DR. SADEH REMOTING IN FROM ISRAEL
TO REVIEW A SCAN IN REAL TIME*



Mahululo Clinic

Replacing old technology with new for
on-demand water flow



Mahululo Clinic

THE NEED:

The Mahululo Clinic needed more reliable technology for flowing water. The previous hand pump consistently broke and was becoming more and more unreliable. Running water was necessary to serve the community and maintain adequate health standards.

OUR SOLUTION:

Lalumwe repurposed the borehole with a solar-powered pump and a holding tank to provide the clinic with a reliable, on-demand water flow. The tap by the maternity ward, located in a different building, was also connected for birthing and postpartum care.

THE IMPACT:

Approximately 1,300 members of the immediate Mahululo community as well as others in the surrounding communities, will have access to safe water for healthcare needs such as wound care and cleaning medical instruments.





Mahululo Community

Clean water for the first time ever



*THE WATERING HOLE THE MAHULULO COMMUNITY
LIVED OFF OF FOR GENERATIONS*

Mahululo Community

THE NEED:

To quote a young boy from the Mahululo Community, “I never believed I would ever drink clean water in my life.” For generations, this community survived off of a small watering hole the size of a desk about a mile from home over difficult and dangerous terrain. Water-borne diseases, conflict over priority, starvation due to the lack of irrigation, water containing animal waste, and waiting 8+ hours at times for silt to settle from the slowly bubbling groundwater were Mahululo’s daily challenges.

OUR SOLUTION:

Lalumwe worked with community leaders to establish a plan to drill a borehole and provide on-demand taps throughout the community and in the half-acre garden that was created. However, due to a mile-long stretch of the road deemed impassable for drilling rigs, Lalumwe nearly had to call off operations. The community rallied and cleared the road by hand within one week to usher in the reality of clean water.

THE IMPACT:

Water is now safely flowing for nearly 400 community members. Water scarcity is a thing of the past, and we fully expect conflict to be minimized and a drastic reduction of water-borne illnesses.



*KNEELING IN REVERENCE AS A GESTURE OF
PROFOUND GRATITUDE FOR ALL WHO HELPED
BRING CLEAN WATER TO THE COMMUNITY*



Other Notable Projects

Creating safe spaces for kids to play and learn



Other Notable Projects

- > 2 Football (soccer) pitches located in Mahululo and Kasiya
- > Watercolor art class conducted by Dr. Mike's daughter Olivia
- > Meeting with the Prime Minister (equivalent to a U.S. state's lieutenant governor) of the Livingstone Chiefdom (similar to a state).
- > Meeting with the lead doctor from the Zambia Ministry of Health
- > Visiting Kasiya clinic for updates from our 2023 water project

