The background features abstract, overlapping green geometric shapes. On the left, a solid green triangle points downwards. On the right, a series of overlapping, semi-transparent green triangles and polygons create a dynamic, layered effect. The colors range from a vibrant lime green to a darker, muted green.

Science in a Box: Hands-on Learning in the Guatemalan Highlands

Empowering rural youth in Purulhá, Baja Verapaz
through STEAM education

Purulhá, Baja Verapaz

- ▶ A rural highland community rich in culture and tradition,
- ▶ with educational challenges and limited scientific exposure.
- ▶ Yoo Guatemala acts as a key educational hub.





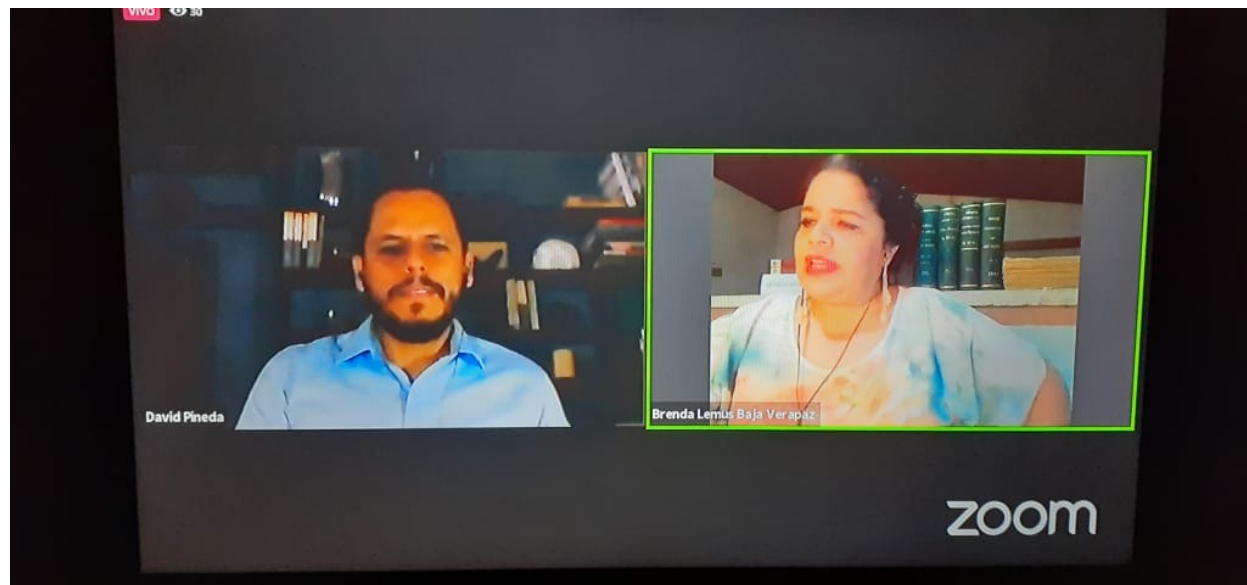
What is the project?

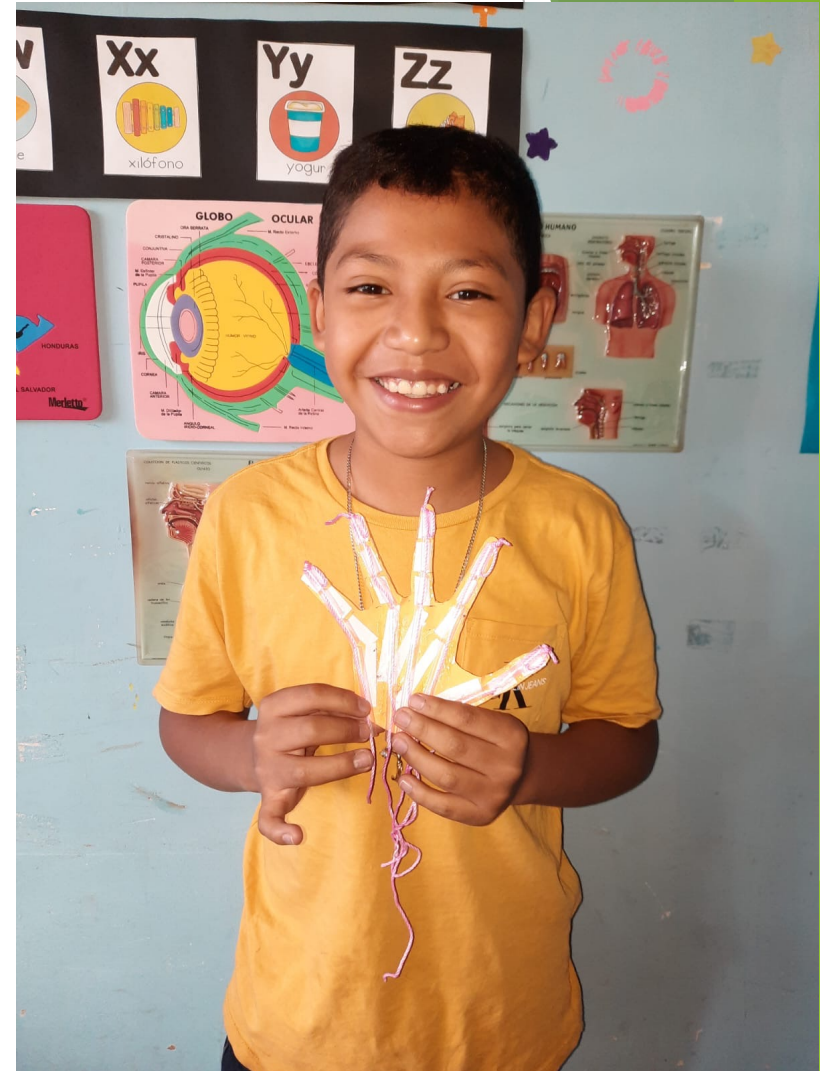
- ▶ An initiative that brings science kits and volunteer-led sessions to classrooms.
- ▶ Students engage in electricity, mechanics, optics, biology.
- ▶ Each child receives a personal science box for a year-long STEAM experience.



Hands-on Science Moments

- ▶ Children experimenting, building, and collaborating.
- ▶ Learning through doing, with joy and curiosity.
- ▶ Workshops led in person and virtually, ensuring access and inclusion.





Impact Highlights

- ▶ • 46 students across 3 age groups
- ▶ • Over \$2,600 raised
- ▶ • Increased confidence, teamwork and interest in science
- ▶ A vibrant community embracing STEAM education.



Next Steps

- ▶ Train more local volunteers
- ▶ Create a permanent STEAM hub in Purulhá
- ▶ Support and continuity are key for long-term impact.

