


# Annual Impact Report 2025





The background image shows a classroom setting. Several children are sitting on the floor, looking towards the front. On the wall, there are various educational posters, including a calendar, a number pocket, and a poster about the days of the week. The text "SolarSPELL is an initiative of" is overlaid on the top left of the image.

SolarSPELL is an initiative of



The ASU SolarSPELL Initiative empowers communities globally by **increasing access to information and building the skills** to make meaningful use of it.





The fat rat sat  
on a mat

U will be Friday

Phonics  
Fun

Talk for  
Learning

Parts of a Bird



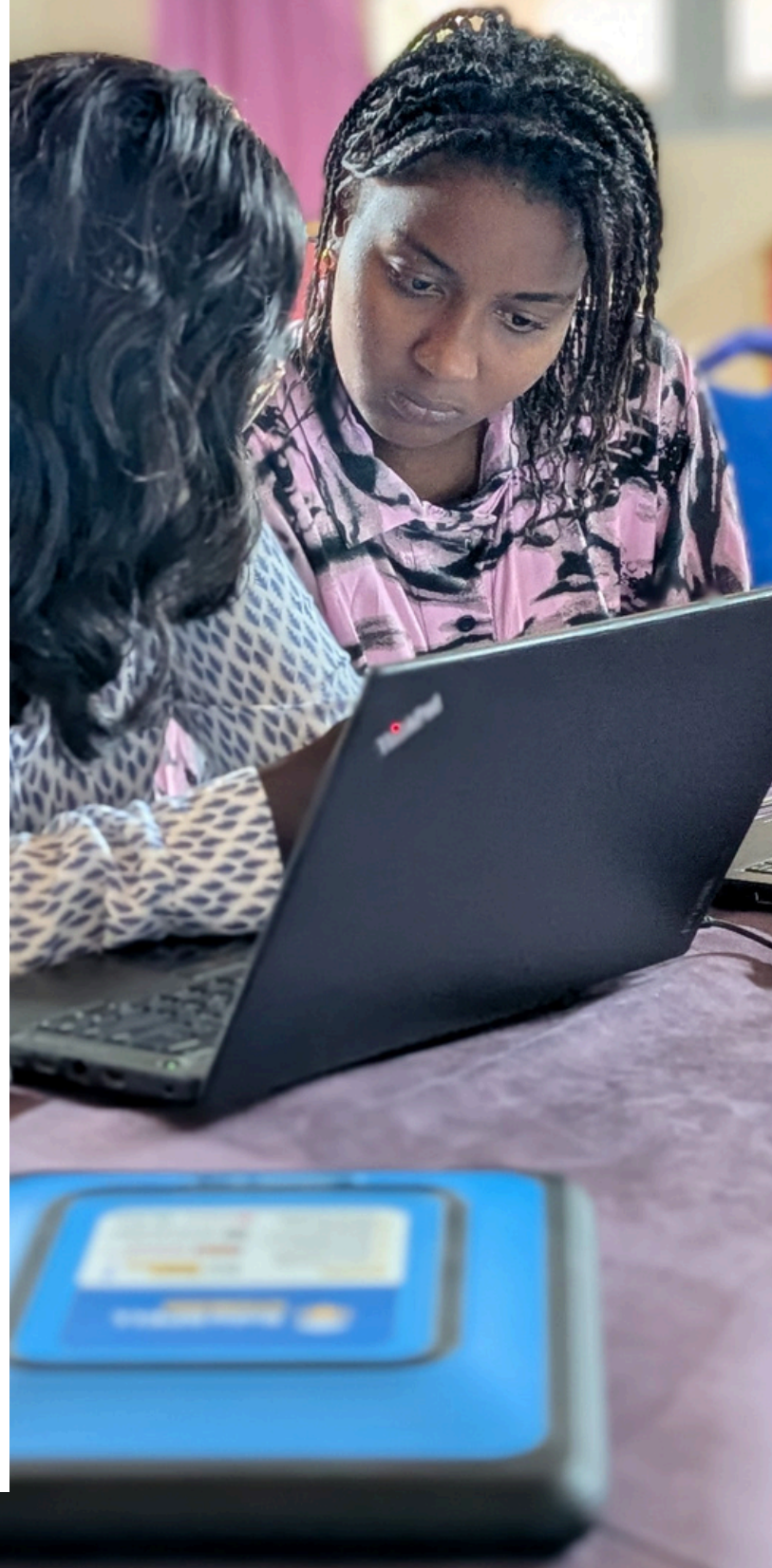
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# Contents

- 01** [Letter from the Director](#)
- 02** [About us](#)
- 04** [Impact snapshot](#)
  - 06** [Libraries boost crop yields](#)
- 08** [10 years of empowering learners](#)
- 10** [2025 highlights](#)
  - 12** [SolarSPELL earns top honors](#)
- 16** [Featured projects 2025](#)
  - 18** [Vanuatu - education & health](#)
  - 22** [South Sudan - agriculture](#)
  - 24** [Lesotho - education](#)
  - 26** [NE Syria - education](#)
- 31** [Looking forward:  
Democratizing AI tools](#)
- 32** [ASU SolarSPELL community](#)
  - 32** [Meet the team](#)
  - 34** [By learners, for learners](#)
  - 36** [Student spotlight: Ryan Watling](#)
  - 40** [In the news](#)
  - 42** [Partners and supporters](#)
  - 44** [Changing futures together](#)





# Letter from the Director

Dear ASU SolarSPELL Supporters,

Ten years ago, I issued a challenge to my class of university students: Could we build a solar-powered, offline digital library that fits in a backpack? That same year, we pitched to and then implemented the very first SolarSPELLs with Peace Corps Volunteers (PCVs) in Vanuatu and the Federated States of Micronesia. In the decade since, SolarSPELL has become a global initiative reaching nearly 500,000 learners and powered by more than 200 students, interns and volunteers each year. In 2025, it felt as though all of our hard work has been recognized, and we've had a truly amazing year, receiving top honors from prestigious organizations like South by Southwest (SXSW), Quacquarelli Symonds (QS) and TIME magazine (*more on p.12*). But this hasn't stopped us from continuing to push the boundaries of what we can do.



With the AI boom leaving billions of learners behind, we partnered with ASU Next Lab to pioneer the development of offline AI to bring this cutting edge technology to underserved communities (*see p.31*). We also launched a major new partnership with Tostan and developed our first French library for West Africa (*see p.11*). And with the help of B2R Farms in Rwanda, we completed groundbreaking impact evaluation, finding that SolarSPELL both helped farmers improve crop yields and boosted peer-to-peer learning (*see p.6*).

This fall, we returned to Vanuatu for the first time since the pandemic to train the country's first cohort of PCVs since the post was evacuated in 2020. Being back in the place where it all began, we were struck by just how much SolarSPELL has grown and changed these last ten years. We hope you'll join us in celebrating a decade of empowering learners globally, and we look forward to continuing to build a more equitable future together.

Laura Hosman



# About us

## Mission

The ASU SolarSPELL Initiative empowers learners globally by providing localized educational information and the training to build 21st century skills in offline environments.

Student success is central to our mission, both around the world and at Arizona State University.

## Vision

We envision a future in which all learners everywhere have:  
**access** to the information they need;  
**skills** to turn information into knowledge; and  
**agency** to transform knowledge into solutions.



## ASU's design aspirations in action

SolarSPELL **engages globally** — implementing libraries in 15 countries across Africa, the Pacific and the Middle East — and **leverages our place** by working with communities in Arizona, from downtown Phoenix to tribal nations. Our **socially-embedded** partnerships with Peace Corps, UNHCR, the Hopi Tribe, and local and national governments enable SolarSPELL to engage deeply with communities globally. Since libraries are often described as the “Swiss army knives” of education, research, community engagement, cultural enrichment, and lifelong learning, SolarSPELL necessarily **fuses intellectual disciplines**. SolarSPELL **values and engages in entrepreneurship**, as evidenced by our award-winning library technology that is 100% designed, engineered and created by ASU students, faculty and staff. Our team conducts **use-inspired research**, going to the field to gather community input in order to measure our impact and iteratively improve all aspects of the initiative. SolarSPELL is unparalleled in practicing principled innovation, not only in our user-centered technology and community-focused approach, but also in how we **enable student success**, engaging 200 students annually from across ASU's colleges, campuses and modalities. Most importantly, SolarSPELL **transforms society** by providing access to information and building the skillsets people need to make empowered decisions to improve their own, and their communities', quality of life.



# Impact snapshot

Our library users report:

92%



Feel better prepared  
to do their job

88%



Report improved digital  
literacy

92%



Say it supports their  
students' education

93%



Say it improved their  
patient care

90%

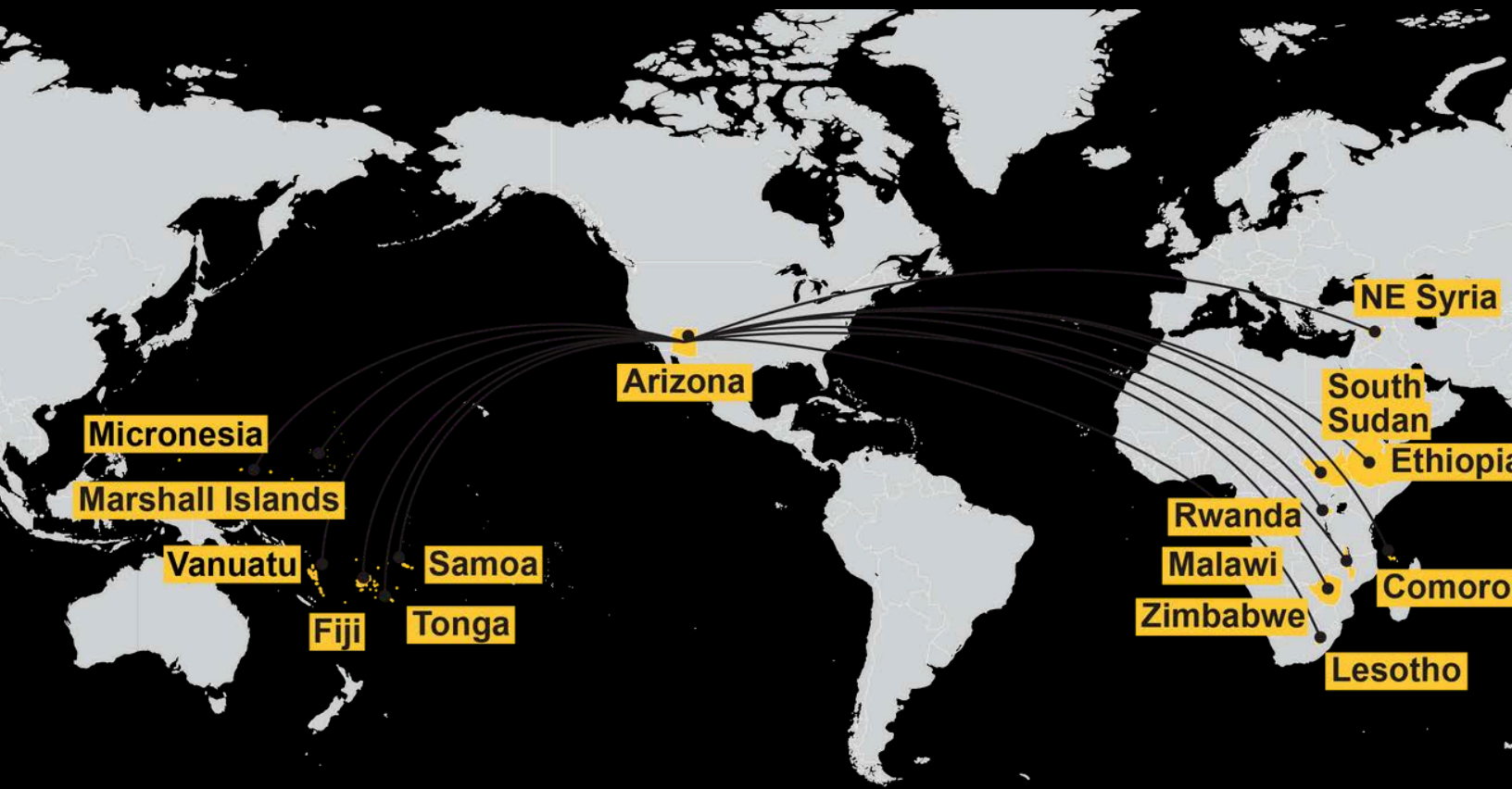


Apply sustainable farming  
methods from the library

“Through SolarSPELL, we were able to find out what disease or pest attacked our maize and our beans. If we did not have the SolarSPELL, we would not be able to find a quick solution for what we faced in our field.”

— Awel Martin, Empower Farmers South Sudan





## Global reach



**672**

Libraries implemented

**1,213**

Trainers trained



**>490,000**

Learners reached





## SUCCESS STORY

# Farmers harvest 56% more with help from SolarSPELL

Across Rwanda, 69% of households depend on small-scale farming. But with yields decreasing under pressures from climate change and declining soil quality, one fifth of Rwandans are food insecure. In order to address this challenge, nonprofit B2R Farms joined forces with SolarSPELL to help implement the widespread adoption of conservation agriculture (CA), a climate-smart farming method shown to increase crop yields while using less land, less labor and fewer inputs.

Last year, a cohort of 68 agriculture fellows took up posts around the country to provide local training and support for farmers and agronomists. Using SolarSPELL both as a resource for themselves and as a tool to disseminate materials like farming manuals and training videos, these fellows were able to train 150,000 farmers in a year!

Every farmer trained was tasked with planting one plot of maize using standard practices and one using conservation agriculture. One growing season after their training, B2R Farms surveyed 3,571 farmers and found that using conservation agriculture techniques increased maize yields by 47.5%. Better yet, farmers who had used the SolarSPELL library gained an additional 9%, harvesting more than 56% more from their CA plots.

What's more, respondents who had used the digital library were more likely to share their new knowledge with other farmers! In fact, these farmers and agronomists trained 2.5 times more people than those who hadn't used SolarSPELL.

When asked about his experience working with the B2R Farms fellow in his district, government agronomist Chrysostome Ndahimana said, "She's doing a difficult but incredible job training farmers individually and showing them practical methods. In the time she has been here, her work has given us hope and resulted in great harvests."



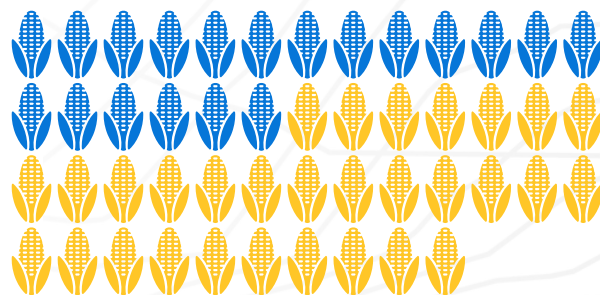
## Standard farming practices



30 Kg/Are



## Conservation agriculture + SolarSPELL



49.1 Kg/Are

Using post-training surveys results, Dr. Laura Hosman and Rachel Nova evaluated our train-the-trainer (TTT) with B2R Farms and found that by incorporating offline approaches to meeting information needs in the field and helping extension agents develop core competencies, TTT approaches have the potential to transform agricultural training and information dissemination.

Hosman, L., & Nova, R. (2025). Offline solutions for agricultural extension: Integrating digital libraries into train-the-trainer programs. *Advancements in Agricultural Development*, 6(1), 5–18.  
<https://doi.org/10.37433/aad.v6i1.547>



Image courtesy of B2R Farms



# 10 years of empowering learners

SolarSPELL has come a long way since its first prototype was developed. As we look back on all we've achieved together these last ten years, we cannot help but feel enormous gratitude for everyone who's been a part of this journey. Here's to another decade of democratizing access to information and building internet-ready skills!

## 2015

Laura Hosman's students develop SPELL, the world's first solar-powered offline digital library, and implement the first 50 with Peace Corps Volunteers in the Pacific Islands.

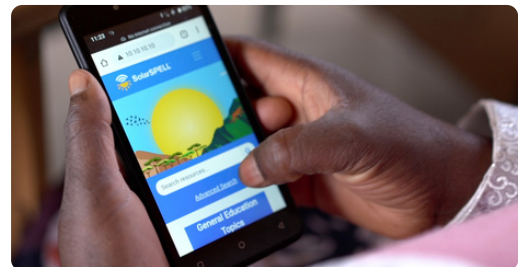


## 2018

SolarSPELL expands to schools in East Africa with a new regional library collection and hires its first full time staff.

## 2021

Our libraries get a major upgrade, introducing search functionality and the first interactive offline training course, developed in-house.





**2022**

UNHCR partners with SolarSPELL to bring digital libraries to schools in refugee camps.



**2023**

SolarSPELL launches two new library collections — health and agriculture — as well as the world’s first and only offline digital library in Arabic, expanding our reach to schools in the Middle East.



**2024**

Our innovative new digital library hardware makes its debut, as SolarSPELL launches its first domestic projects with the City of Phoenix and the Hopi Tribe.



**2025**

SolarSPELL is named one of TIME’s Best Inventions of 2025, Best in Show at the SXSW Innovations Awards and takes top honors at the QS Reimagine Education Summit.





# 2025 highlights

At its core, SolarSPELL is an initiative dedicated to learning and education. In addition to continuously improving every aspect of our work, we also strive to share our expertise in order to help others achieve greater good for more people.

## STEMtastic Adventures

Co-directors Laura Hosman and Bruce Baikie were invited to speak at three mEducation Alliance symposia around the world — in Kenya, Fiji and Washington, D.C. In addition to showcasing STEM-focused SolarSPELL libraries, we had the chance to present about our work with the Offline Internet Consortium, as well as our collaboration with Next Lab developing offline AI for rural learners.

## Introducing over-the-air updates

SolarSPELL web developer and all around tech wizard, Jacob Shaeffer, developed new software this year that allows our team to update libraries over-the-air, making it easier than ever to provide users with new content.

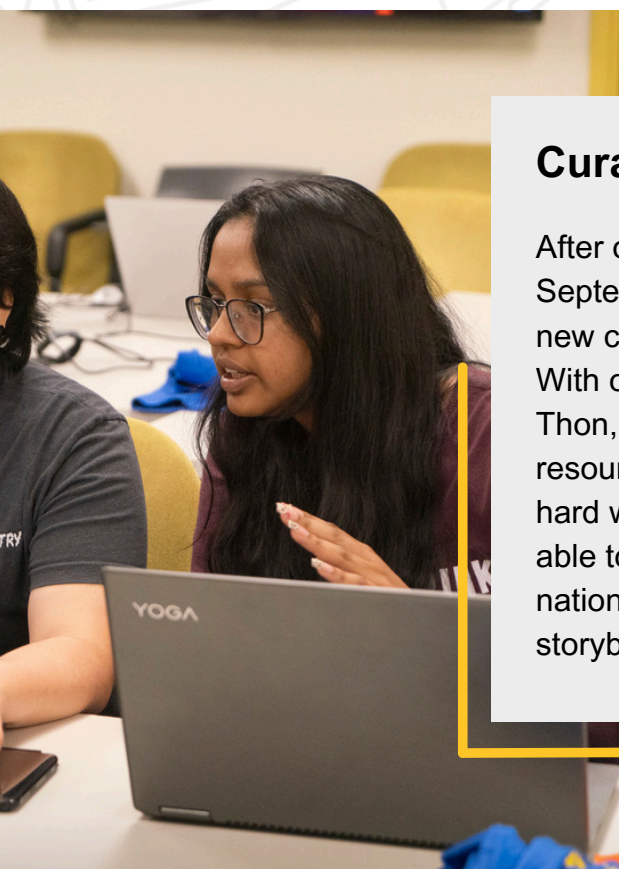






## SolarSPELL's first French library

Our team has been hard at work this year developing our first French library collection in collaboration with our partners at Tostan. A global nonprofit dedicated to empowering communities through human rights-based education, Tostan is working with us to pilot SolarSPELL libraries in Senegal as part of their Community Empowerment Program. Along with our team of French content curation interns, several of Tostan's interns have been working with us to curate resources in both French and the local language of Pulaar.



## Curate-a-Thon

After our first training with Peace Corps Vanuatu this September, we received a lot of wonderful suggestions for new content to add to our Pacific Islands Education Library. With our next visit fast approaching, we hosted a Curate-a-Thon, during which volunteers curated and tagged 82 new resources in one afternoon. Thanks to their help and the hard work of our cultural content curation interns, we were able to update these libraries in November with fresh videos, national curricula and teaching resources, and Bislama storybooks from Bloom Library.





## GLOBAL RECOGNITION

# SolarSPELL earns top honors from TIME, QS and SXSW

Ten years after the first SPELL libraries were piloted in the Pacific, and one year after the launch of our new digital library technology, SolarSPELL libraries were named to TIME's list of Best Inventions of 2025. Among the groundbreaking innovations being honored this year, SolarSPELL was recognized in the Social Impact category for the transformative opportunities our libraries bring to communities.

"It's really nice to get recognized at this level, especially in the Social Impact category, because of the impact that our libraries have made in agriculture, education and health care," said SolarSPELL co-founder and co-director Laura Hosman. "If you think of innovation at ASU, this is what it looks like."

This wasn't the only honor our team received this year. SolarSPELL won Best in Show at the 2025 SXSW Innovation Awards, which recognize the most exciting creative developments from around the world. And the QS Reimagine Education Awards, nicknamed the 'Oscars of Education', selected SolarSPELL from more than 1,600 submissions for their Global Education Award, one of its two grand prizes.

"I'm so excited for the future because of this recognition and how we'll be able to bring localized libraries to hundreds of millions of people around the world, building empowering skills and improving people's quality of life," Laura told the crowd in her acceptance speech at SXSW. "Thank you for believing in the power of libraries to empower everyone around the world."





“This is a great example of how ASU explores problems through critical and innovative thinking — and develops solutions that are both locally relevant and have global impact. We are incredibly proud of the SolarSPELL team and thrilled they are being recognized for improving lives in such a significant way.”

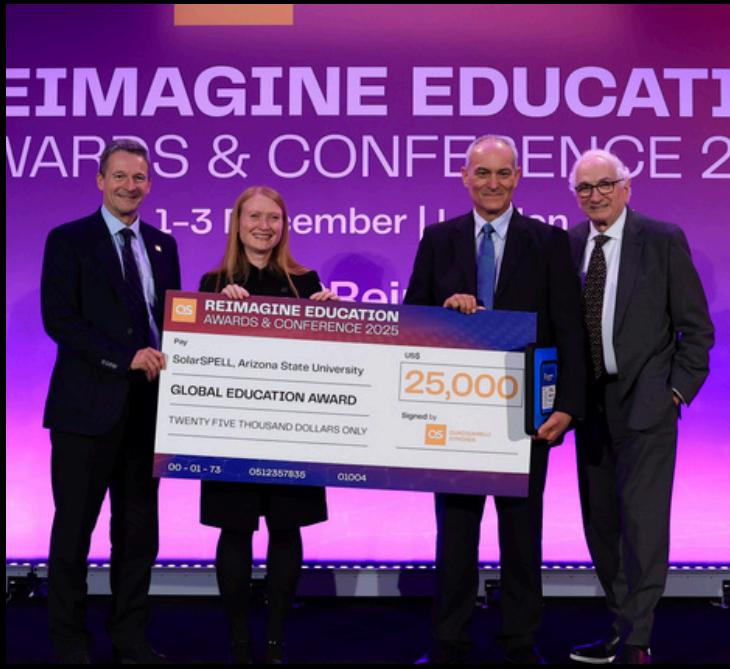
— Sally C. Morton, Executive Vice President, ASU Knowledge Enterprise





Photo by Anthony Moreno, SXSW





*Photo by Darah Hubbard, SXSW*



In addition to being recognized by TIME, SXSW and QS, SolarSPELL also received the following accolades this year:

**Open Education Awards for Excellence**  
Co-founder Laura Hosman was a finalist in the People of Open category.

**HundrED Global Collection**  
SolarSPELL was named to this list of the 100 brightest education innovations around the world.

**ASU President's Award**  
SolarSPELL received the ASU President's Award for Principled Innovation.





# Featured projects 2025

2025 was the year of returns — both geographical and agricultural. For the first time since the pandemic, SolarSPELL went back to Vanuatu, one of the first countries to implement the digital libraries in 2015. Meanwhile, agriculture projects in Rwanda and South Sudan reported huge harvests, made possible by the resources they found on SolarSPELL.

## South Sudan



Nonprofit Empower Farmers South Sudan leans on SolarSPELL to help them maintain a demonstration farm to train nearby farmers in conservation agriculture.

## Vanuatu



The first Peace Corps Volunteers to serve in Vanuatu since the post was evacuated during the COVID-19 pandemic are using SolarSPELL libraries to support their work in schools and health clinics.



## Northeast Syria



Teachers in the Autonomous Administration of North and East Syria leverage SolarSPELL libraries to help students engage in self-guided learning.

## Lesotho



SolarSPELL libraries empower Peace Corps Volunteers and the local teachers they're paired with, as they improve literacy and numeracy education in their schools.



## Vanuatu

Ten years ago, Laura Hosman led a team of university students to Vanuatu to introduce the world's first solar-powered, offline digital library to Peace Corps Volunteers. The results were so successful that SolarSPELL returned annually to work with every cohort of Volunteers that followed... until 2020, when the post was evacuated during the COVID-19 pandemic. So when Peace Corps Vanuatu invited us back to work with the first cohorts to swear in since then, we jumped at the chance!

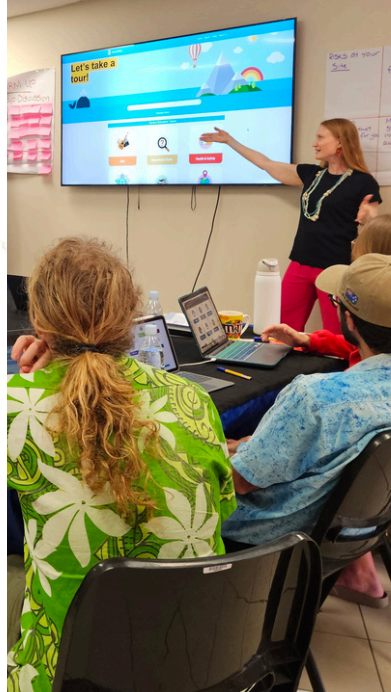
In September we trained eight PCVs embarking on their second year of service, and two months later we returned to train ten first-year Volunteers and their local counterparts. Because these cohorts are made up of both health and education volunteers, each received a hybrid SolarSPELL, containing both our Pacific Islands Education Library and our Health Library. These volunteers, teachers and healthcare providers are using the libraries to support their work improving literacy education and promoting healthy water, sanitation, hygiene and nutrition practices in their communities.

Our team had the opportunity to visit a couple of these communities on our last trip to learn about their experiences so far and to learn what new content they'd like us to add to the library. We were blown away by how quickly they'd adopted this new tool. While health PCV Maggie has been using the library to help her prepare health trainings on handwashing and oral hygiene, PCV Baylea and her fellow teachers have been searching SolarSPELL during their weekly lesson planning time to find new activities, videos and stories to use with their students. Particularly popular were the animated videos in Bislama, the pidgin language spoken across Vanuatu, to teach about topics ranging from cyclones to bullying!

### Implementing partner

















## South Sudan

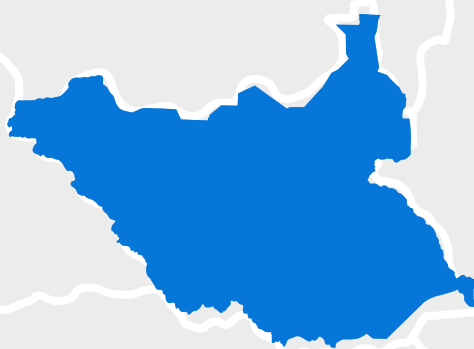
Prolonged conflict, poor infrastructure, economic crisis and climate shocks, like widespread flooding, have resulted in severe food insecurity and malnutrition across South Sudan. Currently an estimated 5.97 million people — 42% of the population — face high levels of acute food insecurity, according to the latest Integrated Food Security Phase Classification (IPC) report.

While this multifaceted crisis won't be solved by one intervention alone, climate-smart and conservation agriculture has the potential to increase the availability of food while restoring soil health to improve resilience to future climate shocks. To that end, we've been working with Empower Farmers South Sudan (EFSS), an initiative developed by EmpowerKids-South Sudan, to replicate the B2R Farms model in Juba county.

Last November, four agriculture champions attended SolarSPELL's train-the-trainer in Rwanda before participating in a four-month conservation agriculture training hosted by B2R Farms. Upon returning to South Sudan, the EFSS team established a demonstration farm and began doing outreach with local farmers.







EFSS interns shared that they consult the SolarSPELL digital agriculture library every day to help them effectively manage the model farm's crops. In fact, they credited their ability to effectively save their crops from outbreaks of fungi and pests, like the fall armyworm, to the SolarSPELL library.

A robust harvest at the demo farm has led to increased interest from nearby farming communities, as well as several schools and churches that have approached EFSS about starting their own conservation agriculture plots next year. **The farm's maize harvest alone was nearly double local yields and more than three times the national average!**



“Recently, we encountered a soil-borne fungus in our beans on the farm. The SolarSPELL gave us recommendations and information that we can use to reduce the disease naturally. [We learned] to remove the plants... and that is exactly what we did... it really stopped us from spreading the disease to other plants.”

— Hassan, Empower Farmers South Sudan



Implementing partner





## Lesotho

For the third year in a row, the ASU SolarSPELL Initiative has partnered with Peace Corps Lesotho to bolster literacy, mathematics and life skills education in primary schools around the country. This cohort of Peace Corps Volunteers (PCVs) and local counterparts was the post's first to receive our new library hardware, bringing these award-winning libraries to learners at 14 more schools.

This year's train-the-trainer workshop featured Luke and M'e' Mamoroesi, SolarSPELL champions from last year's cohort, who shared their experiences — not only successes, but also challenges and how they overcame them. We were also joined by Ryan Watling, an ASU graduate student and Returned Peace Corps Volunteer (RPCV), who gave an overview of the Coverdell Fellows program, which provides financial assistance to RPCVs who pursue graduate studies. Ryan stayed in Lesotho an additional two weeks to conduct follow-up surveys, interviews and site visits with schools that received a SolarSPELL library in 2024 (*more on p.36*).







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“Here at school, our learners have access to learn on their own [because of SolarSPELL]. ... The other thing that I'm proud of with SolarSPELL, is that I now have new activities and methods.”

— Masamuel, primary school teacher

“

“I was teaching Grade 1 learners how to form words and listen to phonics. SolarSPELL helped me a lot. The learners were listening and watching the videos, and it became much easier for them to form words. I am very happy that they can now do this, and it didn't take as long as before.”

— Bokang, primary school teacher



Implementing partner



**Peace  
Corps**



## Autonomous Administration of North and East Syria

Building on a successful pilot with three secondary schools, our partners in the Autonomous Administration of North and East Syria (AANES) Commission of Education have been steadily working to implement SolarSPELL libraries in additional schools throughout the region. Amid political uncertainty in the wake of the Syrian civil war, our teams remain more committed than ever to empowering educators and students with quality, relevant learning materials that meet them where they are.

This year our partners introduced the libraries to six new schools, leading teacher trainings at each one. These trainings have proved excellent opportunities not only to build comfort with the new technology but also to help promote more hands-on teaching methods.

Muhammad Haider, AANES project manager for the SolarSPELL project, discussed the initiative in an interview with Rojava-TV. He shared that while some teachers felt intimidated by the new technology at first, exploring the library's resources during these trainings helped them feel excited and confident.

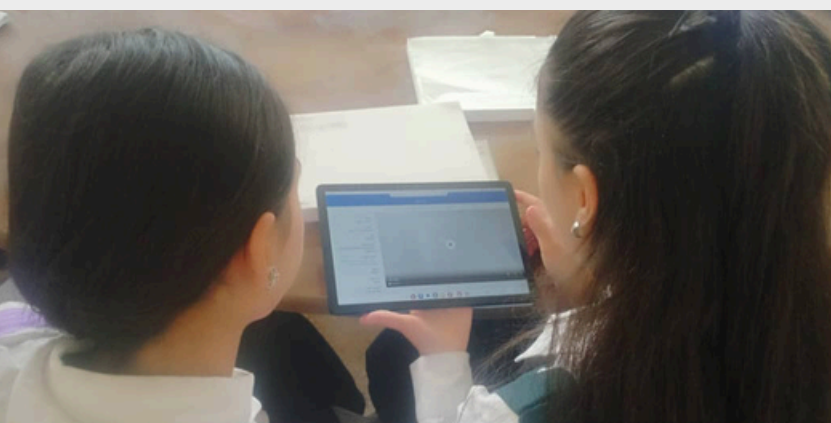






Teachers were particularly interested in SolarSPELL's interactive content, like the PhET science and math simulations. "This is one of the most useful tools I encourage students and teachers to explore, especially because of the economic situation and the lack of real lab tools in schools," he said of the PhET learning module.

Our teams have continued working together to curate and tag new material for this library to fulfill teachers' requests and to carry out monitoring, evaluation and learning (MEL) with these new library users. To further empower AANES to take the lead in the next phase of this project, SolarSPELL Arabic content curation intern Samiha Sahraoui has developed a MEL training video in Arabic to help our partners conduct future surveys and interviews.



## Implementing partner



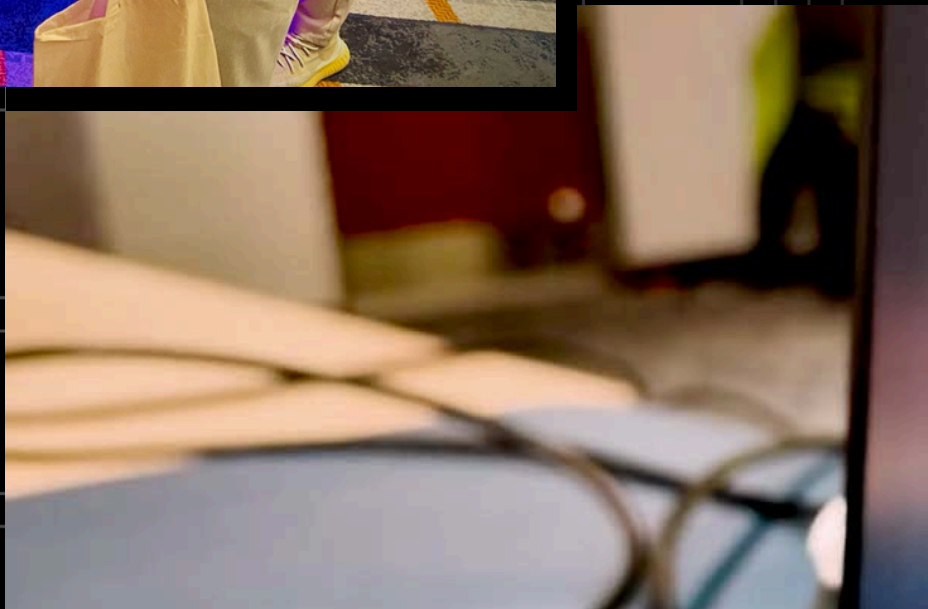
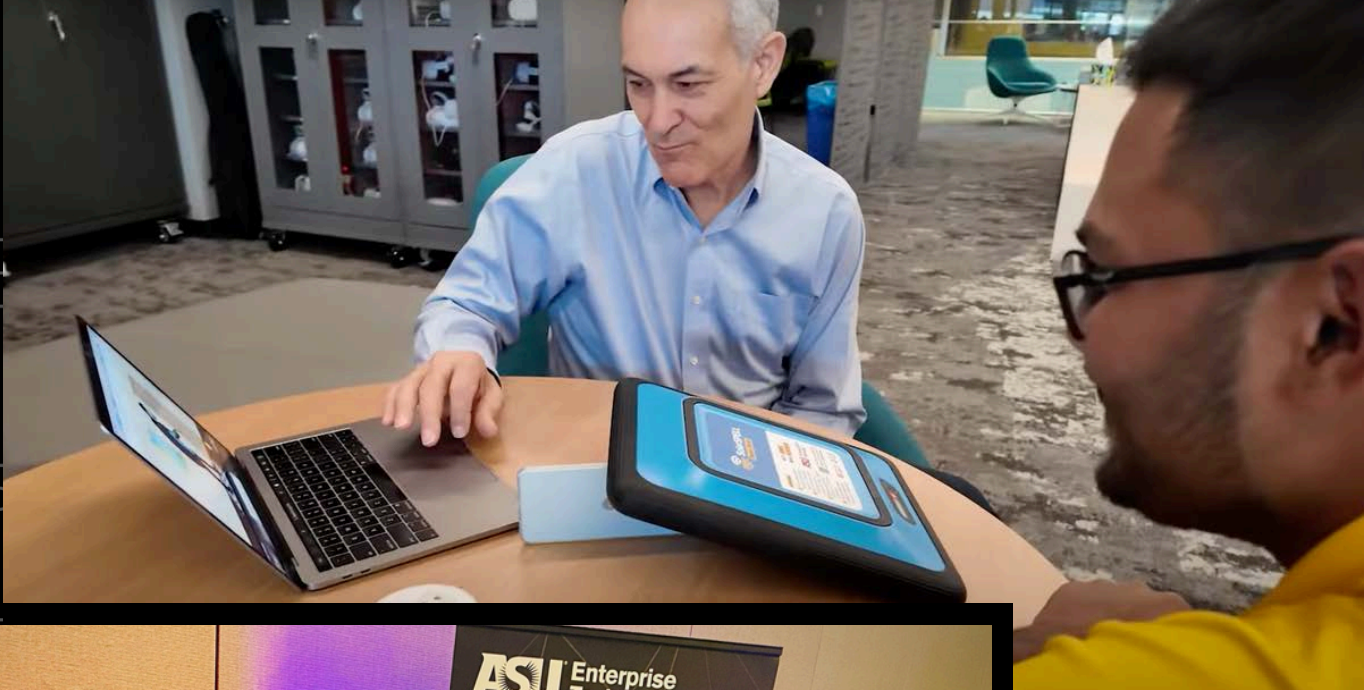
















## LOOKING FORWARD

# Democratizing AI tools for offline, off-grid learners

Generative AI is already reshaping our world — transforming the nature of work, education, healthcare and more. And as the companies leading the charge continue to focus on online users, 50% of the world's population is again being left out of the equation. Without meaningful access to the internet or strong digital literacy skills, 4.5 billion people are unable to take advantage of this world-altering tool to solve challenges in their communities and improve their quality of life.

The SolarSPELL Initiative is working to change this. In partnership with ASU Next Lab, we are pioneering the creation of offline AI tools for learners in rural and remote communities.

Next Lab's student workers have created a prototype that can function entirely offline and on low-powered hardware (such as the Raspberry Pi microcomputers that power SolarSPELL libraries). The team has been using Llama, an open source large language model (LLM) released by Meta, as the foundation for their model.

To make it truly useful for offline users, especially those in the Global South, they've needed to train the AI on a more locally relevant dataset — in this case, SolarSPELL's Sub-Saharan Africa Health Library. And to give the model a better idea of what kinds of questions it may receive and how best to structure responses, Alexa Perry, an ASU DNP student and SolarSPELL health library curator, provided Next Lab with sample questions that nurses in the field might ask, along with ideal responses.



EDgeAI - SolarSPELL

How can I improve literacy and teacher training in rural schools?

+ Code Interpreter



# ASU SolarSPELL community

We are deeply grateful to everyone who makes this work possible — from full-time staff to students and volunteers, organizational partners to community champions. Thank you for your dedication to empowering learners around the world.



**Laura Hosman**  
Co-founder and  
Co-director



**Bruce Baikie**  
Co-founder and  
Co-director



**Heather Ross**  
Co-director,  
SolarSPELL Health



**Rachel Nova**  
Project Manager

Dr. Laura Hosman was named one of ASU's two 2025 Charter Professors for her commitment to inclusion and success, research of public value, and responsibility for the well-being of the community.





We are very excited to introduce our new Digital Library Specialist, Marisa Arancibia, who joined us this April! Marisa brings more than a decade of experience in non-profits, public libraries and digital global collections to her role with SolarSPELL, as well as a passion for using her Spanish-language skills to reach diverse audiences.



**Jacob Shaeffer**  
*Web Developer and  
SysAdmin*



**Marisa Arancibia**  
*Digital Library  
Specialist*



**Abby Johnson**  
*Communications  
Specialist*



**Cassie Barrett**  
*Student Engagement  
Coordinator*



We love celebrating our team's achievements, both personally and professionally. This year our student engagement coordinator, Cassie Barrett, set a personal record at the 129<sup>th</sup> Boston Marathon!





## By learners, for learners

SolarSPELL is the only global digital library initiative that is created by students for students, by learners for learners. Student success is central to our mission, and students are central to SolarSPELL's success around the world. This year we brought on more university students than ever before, hitting 200 meaningful engagements. Whether they joined us through classes, internships or as volunteers, their contributions have helped push SolarSPELL to new heights.

This incredibly diverse group's work included producing songs and karaoke videos about information literacy and phonics, improving the design and software of our digital libraries to improve user experience, and providing translation and curation support in five different languages.

Despite being spread over seven different countries (Algeria, Egypt, Ethiopia, the Philippines, Romania, Rwanda and, of course, the United States), this cohort was more connected than ever. By implementing regular community building and professional development opportunities, like documentary viewings, roundtable discussions and career services workshops, student engagement coordinator, Cassie Barrett, helped us retain more than 50% of our students for more than one semester. And thanks to their contributions, SolarSPELL has been able to reach more learners across more regions with higher quality libraries than ever before.



“I believe many people in my generation feel powerless, isolated, and hopeless about the future. However, through this work, I am reminded of the kind and brilliant people in the world, as well as my own ability to do good, however small. I hope the students & community members SolarSPELL serves benefit from Wikipedia For Schools as much as I have benefited from the experience.”

— Vick Wang, Wikipedia for Schools Intern





“

“I believe that [SolarSPELL] is one of the most significant projects I have worked on in all of my course work throughout my time at ASU. ... The knowledge I gained from this project has helped me understand the aspects of humanitarian engineering to a much deeper level which can be taken into any engineering role.”

— Sam Coltrin, EGR 598 student



”

“What truly matters to me is knowing that we’re contributing to real, lasting change. Every lesson we develop has the potential to transform farming practices and improve the livelihoods of farmers across the country. We’re not just building a digital library, we’re working toward a more sustainable future.”

— Elvine Umutoniwase, Digital Course Development Intern: Agriculture







## Student spotlight: Ryan Watling

Ryan Watling was serving as a Peace Corps Volunteer in the Dominican Republic when he came across a sight that would later lead him to ASU and to SolarSPELL. A beautiful, solar-powered and completely nonfunctional water pump. “It hadn’t worked in years, because the people who installed it didn’t account for what happens if it breaks,” he said.

The experience led him to pursue a master’s degree in Global Technology and Development (GTD) at ASU, where he was quickly drawn to SolarSPELL’s unique approach. “I think SolarSPELL is appropriate and successful because it is requested by and curated for specific communities,” said Ryan. “The project takes into account location-specific resources, politics and cultures.”

Ryan joined our team to help us build out our qualitative data analysis tools. He played a key role in developing a code book, coding interviews and conducting thematic analysis to identify the most common challenges and impacts mentioned by library users.

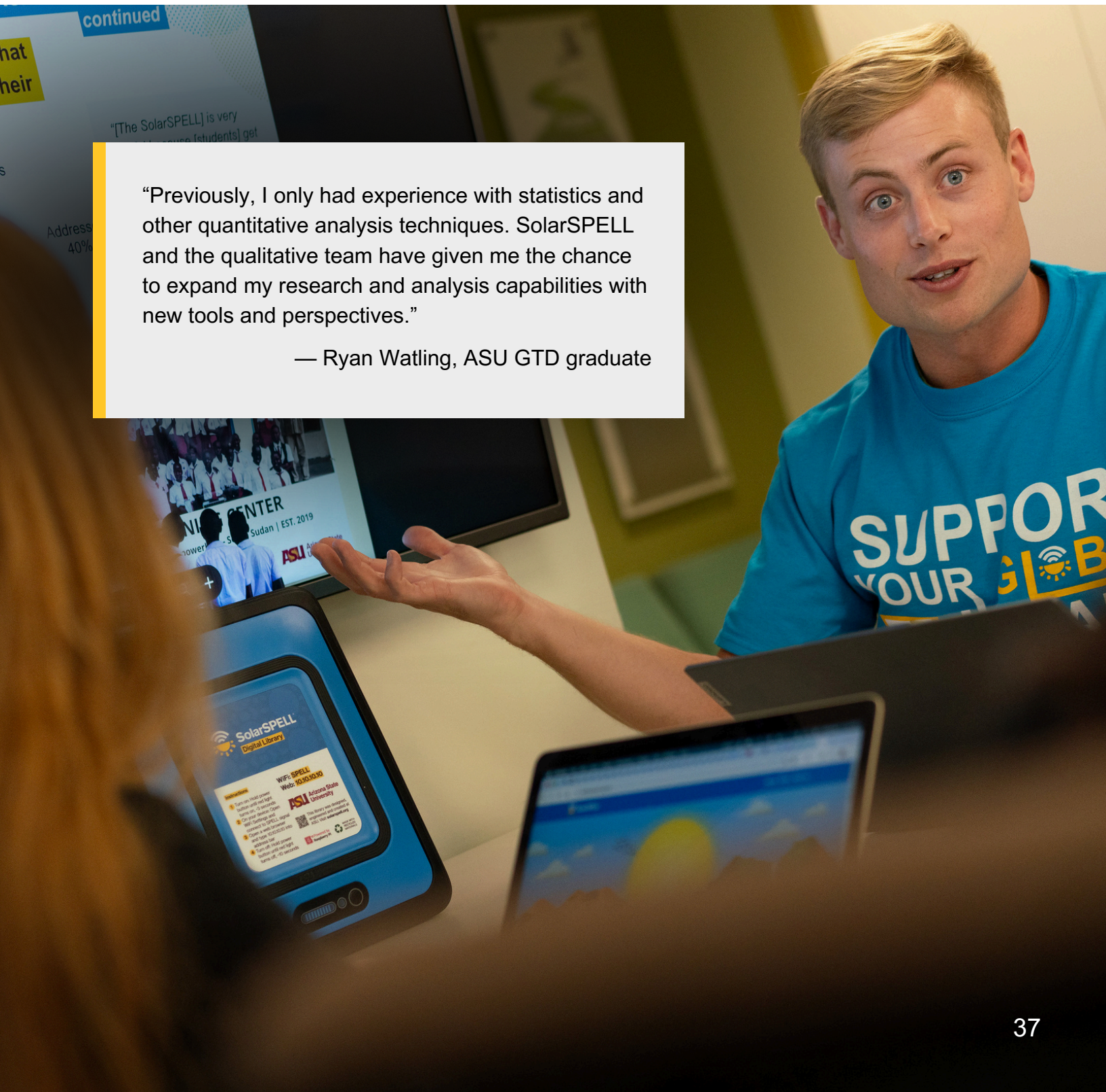
Then in January of this year, his work came full circle as he traveled to Lesotho to follow up with communities that received SolarSPELL libraries in 2024. “I traveled almost 1,600 kilometers — almost every paved road in the country — to conduct nine site visits and 14 interviews across Lesotho,” he said.



For his indelible contributions to SolarSPELL, his academic success, as well as his service on the School for the Future of Innovation in Society's (SFIS) Graduate Student Organization, Ryan was named Outstanding Graduate for the School for the Future of Innovation in Society. He is currently working as an English Teaching Assistant at Mexico's Instituto Tecnológico Superior de Zacapoaxtla on a Fulbright grant.

"Previously, I only had experience with statistics and other quantitative analysis techniques. SolarSPELL and the qualitative team have given me the chance to expand my research and analysis capabilities with new tools and perspectives."

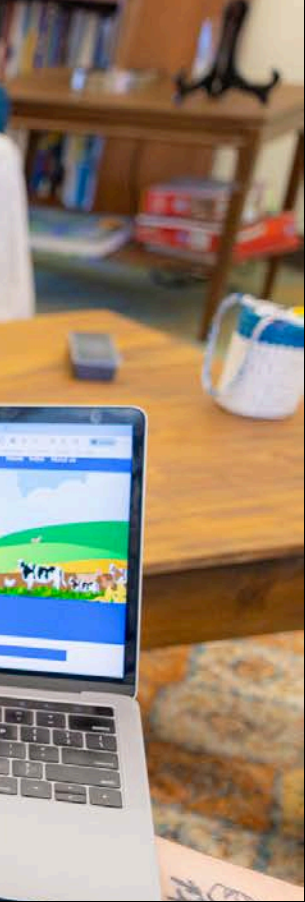
— Ryan Watling, ASU GTD graduate











Co-founders Laura Hosman and Bruce Baikie met up with three of our interns in Rwanda this summer: Ajua Franklin, Cynthia Abijuru Kamikazi and Elvine Umutoniwase. This year, ten of our interns were Rwandan or living in Rwanda and worked on both curating content and building digital courses for our East Africa agriculture and education libraries.





## In the news

- **ASU News.** (2025, December 12) ASU employees earn recognition for their work on real-world solutions.  
<https://news.asu.edu/20251212-university-news-asu-employees-earn-recognition-their-work-realworld-solutions>
- **QS Insights Magazine.** (2025, December) Innovating from the edges.  
<https://magazine.qs.com/qs-insights-magazine-36/innovating-from-the-edges>
- **The Cool Down.** (2025, November 24) Professors create innovative tech that could revolutionize education: 'Improving lives in such a significant way'.  
<https://www.thecooldown.com/green-tech/solar-powered-educational-devices-time/>
- **KTAR News.** (2025, October 24) ASU's worldwide educational resource device named among Time's best inventions of 2025. <https://ktar.com/arizona-education/asus-device-best-inventions/5765009/>
- **KJZZ.** (2025, October 16) This library device created by ASU professors, students named one of TIME's 2025 Best Inventions. <https://www.kjzz.org/science/2025-10-16/this-library-device-created-by-asu-professors-students-named-one-of-times-2025-best-inventions>
- **Doing Well News.** (2025, October 14) How stress affects the way we understand health information.  
<https://doingwellnews.substack.com/p/health-information-technology-accessibility>
- **ASU News.** (2025, October 9) ASU SolarSPELL Initiative named a TIME 'best invention'. <https://news.asu.edu/20251009-local-national-and-global-affairs-asu-solarspell-initiative-named-time-best-invention>
- **TIME.** (2025, October 9) The Best Inventions of 2025: SolarSPELL.  
<https://time.com/collections/best-inventions-2025/7318502/solarspell/>
- **The Progress Network: What Could Go Right? Podcast.** (2025, July 23) Education Where the Internet Can't Reach.  
<https://theprogressnetwork.org/podcast/education-where-the-internet-cant-reach/>



**ABC15 Arizona.** (2025, October 27) Arizona State University's SolarSPELL initiative recognized as one of TIME's best inventions of 2025.  
<https://www.abc15.com/weather/impact-earth/arizona-state-universitys-solarspell-initiative-recognized-as-one-of-times-best-inventions-of-2025>





**Rojava-TV.** (2025, May 31) المكتبة الرقمية  
إشراقات || التعليم عبر  
Insights: Education  
through the Digital Library.

<https://www.youtube.com/watch?v=iyJN7GyaYIM>



**Arizona's Family 3TV / CBS 5.** (2025, July 22) Arizona State University initiative SolarSPELL aims to expand global access to education.

<https://www.azfamily.com/video/2025/07/23/arizona-state-university-initiative-solarspell-aims-expand-global-access-education/>

- **Daily Independent.** (2025, June 14) \$1.5M in literacy grants target Arizona education gaps. <https://www.yourvalley.net/stories/arizonas-literacy-landscape,590783>

- **ASU News.** (2025, May 5) ASU Outstanding Graduate's path from Peace Corps to global development. <https://news.asu.edu/20250505-sun-devil-community-asu-outstanding-graduates-path-peace-corps-global-development>
- **Axios.** (2025, May 1) ASU solar-powered libraries aid Arizona, Africa and beyond. <https://www.axios.com/local/phoenix/2025/05/01/asu-solarspell-libraries-global-impact>
- **ASU News.** (2025, March 18) SolarSPELL wins 'best in show' award at South by Southwest. <https://news.asu.edu/20250318-sun-devil-community-solarspell-wins-best-show-award-south-southwest>
- **ASU News.** (2025, March 11) How ASU research is helping first responders. <https://news.asu.edu/20250311-local-national-and-global-affairs-how-asu-research-helping-first-responders>





It's been a pleasure developing our first French library collection with our newest partner Tostan (p.13), and we look forward to launching this library in Senegal with them next year.

## Partners + supporters

**SolarSPELL is grateful for the collaboration and contributions of our partners and supporters listed below:**

- Autonomous Administration of North and East Syria Education Commission
- B2R Farms
- City of Phoenix Community Assistance Program
- Empower Farmers South Sudan
- Hopi Cancer Support Services
- Kiwix
- mEducation Alliance
- National Comprehensive Cancer Network
- Offline Internet Consortium
- Peace Corps
- PhET Interactive Simulations - University of Colorado Boulder
- Raspberry Pi
- Tostan
- Voice of America - Let's Learn English Program

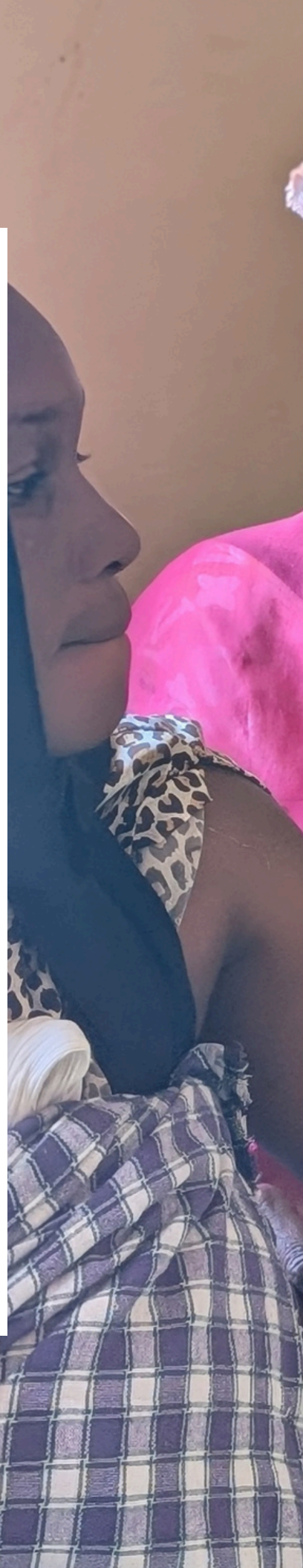
**... and our home at**











We are **empowering community resilience** by building the most important skill for the 21st century — information literacy.

Most SolarSPELL libraries are in primary and secondary schools around the world, **inspiring and empowering tomorrow's game changers**, with information and internet-ready skills.

Our health libraries are **building the future of health** by improving access to information, patient care and health outcomes in remote communities.

SolarSPELL agriculture libraries help farmers learn how to employ climate-smart, sustainable farming practices — **reshaping our relationship with the planet.**

Both in and out of the classroom, we are **transforming global education**, helping users build the skills they need to be confident lifelong learners.

SolarSPELL is **advancing technology for good**, implementing user-centered design to create technology that meets learners where they are.



## Let's change the future — together.

This work would not be possible without the generous and unwavering support of our donors, partners, volunteers, students, faculty and staff. We invite you to be a part of this mission by giving your time, leveraging your area of expertise, sharing our story with your community, or making a financial contribution.

**Together, we can provide communities with the information they need to solve the complex problems they face and work toward creating a sustainable, equitable future for all.**

**Support  
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