

**On Expansion or Replication of
Evidence-Based Practices:**
A Question of Scale



USAID
FROM THE AMERICAN PEOPLE



A dark blue world map with the word "Welcome!" overlaid in white text. The map shows the outlines of continents and countries in a lighter shade of blue. The text is centered horizontally and vertically.

Welcome!

TODAY'S SPEAKERS



Dr. Revi Sterling

Director, USAID
WomenConnect Challenge



Dr. Ku McMahan

Team Lead, USAID
Securing Water for
Food (SWFF)



Dr. Laura Hosman

Associate Professor,
ASU School for the Future
of Innovation in Society

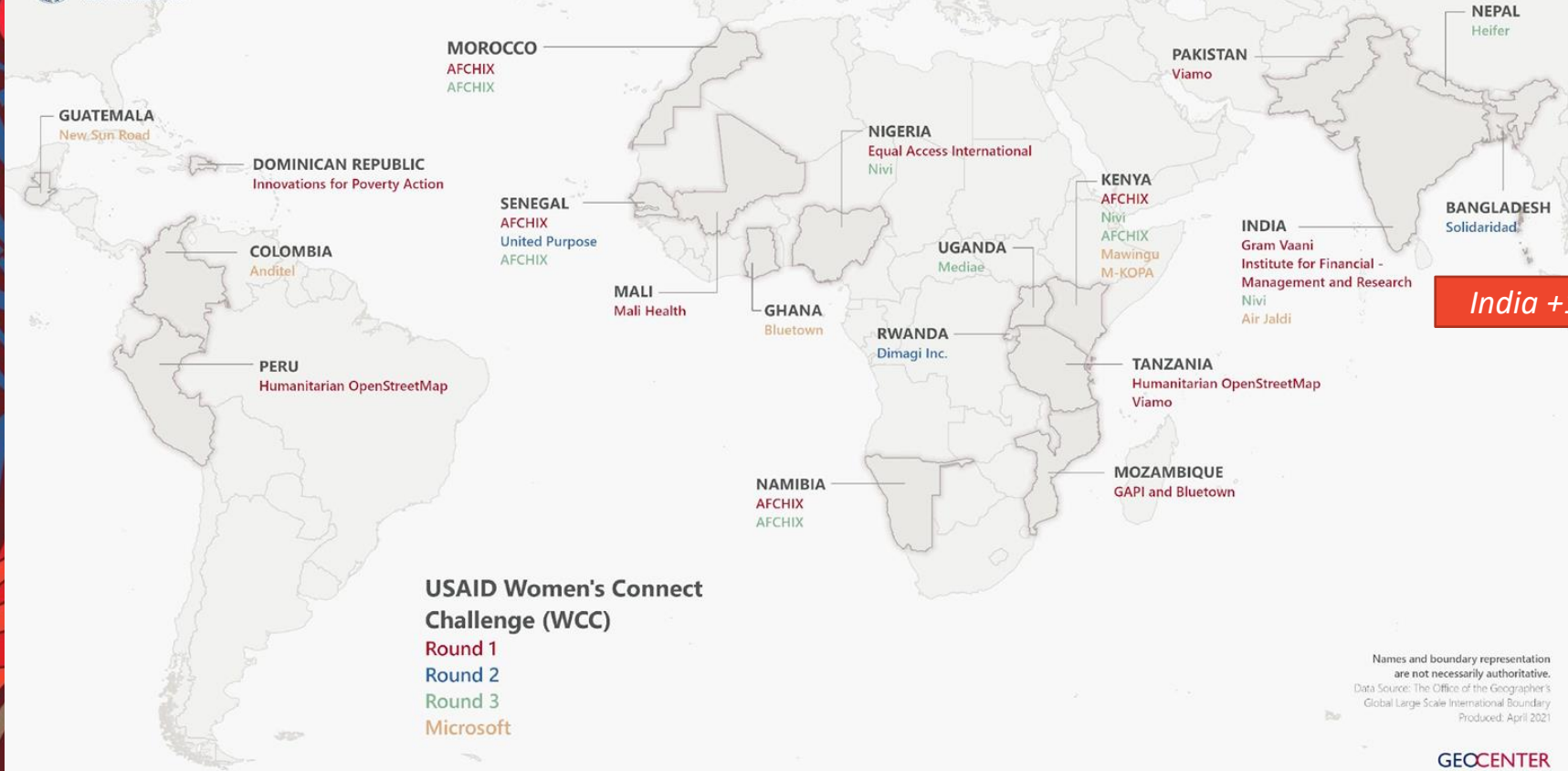


REPLICATING SUCCESSES IN WOMEN AND DIGITAL DEVELOPMENT

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WomenConnect Challenge (WCC) Locations



India +10

USAID Women's Connect Challenge (WCC)
Round 1
Round 2
Round 3
Microsoft

Names and boundary representation are not necessarily authoritative.
Data Source: The Office of the Geographer's Global Large Scale International Boundary
Produced: April 2021



PROVEN STRATEGIES



Change Social Norms and Cultural Perceptions



Create economic opportunities



Cultivate women's confidence



Design Creative Women-Centric Technology



Develop Community Support

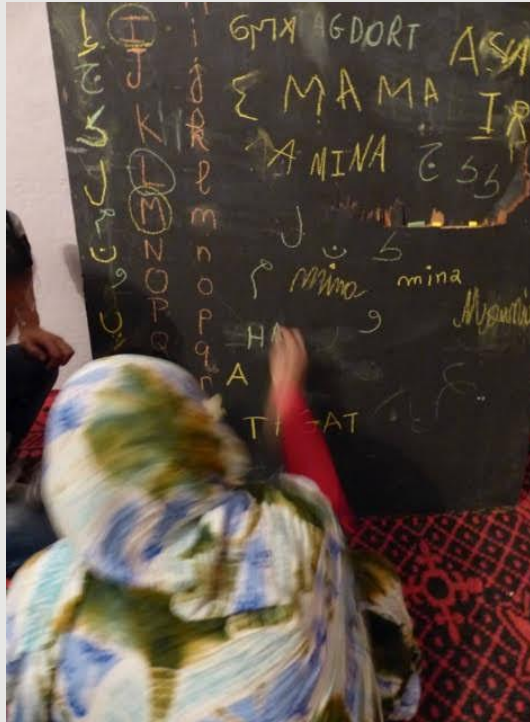
CHANGING SOCIAL NORMS: Nigeria



CREATING ECONOMIC OPPORTUNITIES: Bangladesh



CULTIVATE WOMENS CONFIDENCE: Tanzania and India



DESIGN CREATIVE TECH FOR WOMEN: Mali



DEVELOP COMMUNITY SUPPORT: Senegal and Guatemala





TARGET

5>B



**PROMOTE
EMPOWERMENT OF
WOMEN THROUGH
TECHNOLOGY**



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WATER and
ENERGY
for FOOD



Water Energy For Food (WE4F)



\$65 MILLION DOLLARS

for 3 focus areas



Water/Food



Energy/Food



Water/Energy/Food

WE4F Program Pivots

Mobilizing Lessons Learned from
Securing Water for Food and
Powering Agriculture

International Initiatives Funding Innovators

POWERING AGRICULTURE (PAEGC)

- 2012-2019
- \$50 million (\$25 million as grants)
- USAID, Sida, BMZ, Duke Energy Corporation, and OPIC
- Focus: solar powered irrigation, energy efficiency, and cold storage

SECURING WATER FOR FOOD (SWFF)

- 2013-2020
- \$35 million (\$20 million as grants)
- USAID, Sida, MFA-NL, and DST
- Focus: water efficiency, water storage, and, saltwater intrusion



Supported
80 innovators



Nearly 7
million
beneficiaries
reached



Nearly 6
million tons of
additional
food produced



Water
consumption
reduced by >19
billion liters



13.5 million
USD energy
costs saved



1.3 million
trees saved



More than
\$58 million in
additional
funding



More than 350
partnerships



SWFF Key Lessons Learned & WE4F Impact

LACK OF LOCAL PRESENCE & NETWORKS IN THE REGION TO SUPPORT THE ENABLING ENVIRONMENT



CREATION OF THE REGIONAL INNOVATION HUB MODEL

MILESTONE-BASED FUNDING + ACCELERATION SUPPORT



USED BY WE4F TO SCALE BUSINESSES AND EXPAND ACCESS TO TECHNOLOGY





SWFF Key Lessons Learned & WE4F Impact

GENDER PERSPECTIVE & YOUTH
EMPLOYMENT
INSUFFICIENTLY INTEGRATED



CUSTOMIZED TECHNICAL
ASSISTANCE FOR COMPANIES - NO
ONE SIZE FITS ALL

INSUFFICIENT MEASUREMENT &
INTEGRATION OF THE BoP INTO
THE PROGRAM



FOCUS ON END-USER FINANCING
AND DEVELOPING BETTER MODELS
FOR ACCESS TO FINANCE

INSUFFICIENT SYSTEMS FOR
SUSTAINABILITY + NOT MEETING
BIODIVERSITY & ENVIRONMENTAL
REQUIREMENTS



CUSTOMIZED TECHNICAL
ASSISTANCE AND DEVELOPMENT OF
ESG SUPPORT



Partnerships & Private Sector Engagement in WE4F





THANK YOU

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The logo for Arizona State University (ASU) and SolarSPELL. The ASU logo is on the left, and the SolarSPELL logo is on the right. The SolarSPELL logo features a stylized sun with a Wi-Fi symbol above it. The text "SolarSPELL" is in a bold, sans-serif font.





Reaching the **hard to reach**

Solar³

Energy. Education. Empowerment.

Our goal is to empower schools worldwide through the use of environmentally sustainable technologies.

The Challenge

The need for improvements to education in the developing world is widely recognized. Technological innovations have been utilized but so far many solutions have fallen short. They often face problems such as:

- Non-existent or inconsistent energy sources
- Inadequate infrastructure
- Enormous cost of implementation

Our Solution

We have developed an all-in-one, modular computing unit. Our innovative packaging converts into a lab table and can be installed within a few hours. The simple and efficient design reduces the complexity of installation and maintenance and empowers off-the-grid schools to more easily utilize computer-related technology.

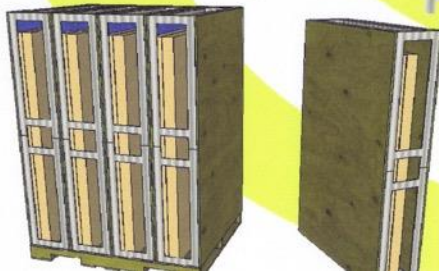
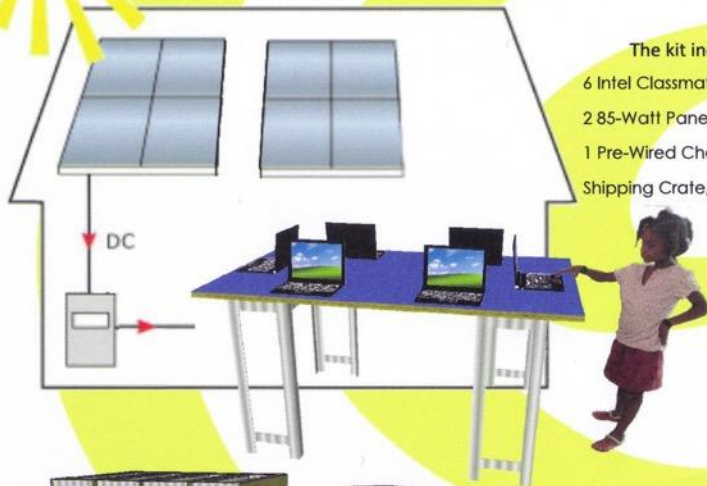
Contact: laura.hosman@iit.edu

Features

- Turnkey solution contains all of the components necessary for setup
- Packaging becomes lab table
 - Up to four kits fit on a single pallet
- Preloaded with educational software
 - Simplified DC-only system—no inverter

The kit includes:

- 6 Intel Classmate Laptops
- 2 85-Watt Panels
- 1 Pre-Wired Charge Controller
- Shipping Crate/Lab Station



En
Sut
Wo

ILLINOIS INSTITUT





Solar Computer Lab in a Box





Never Used!



Developing **crucial skills** and **localizing content**



Meet Melody







Ongoing training & support



Working with **Peace Corps**



Global Strategic Partnership





The Biggest Challenge



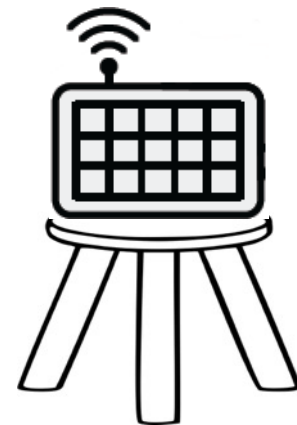
Skills-Building Information Literacy



Educate today to **empower** long-term

What is SolarSPELL?

Solar Powered Educational Learning Library



Curated Content
Local Capacity Building
(In-Field Partnerships + Train-the-Trainer)
Impact Evaluation



Student success is central to our mission, both globally and at ASU

Annually...



100+ university
students engaged



10,000+ hours
contributed



Since 2015, we have realized significant impact...



96,497
learners
reached
globally



645
individuals
trained in-
the-field



395
SolarSPELL
digital libraries
delivered



9
countries with
SolarSPELL
projects



6
digital library
collections

... While working with a team of incredible partners



*With a Global Strategic Partnership to work with Peace Corps posts worldwide, we **train** Volunteers and locals to leverage SolarSPELL in their communities*



*We feature **high-quality content** from Voice of America - the "Let's Learn English" video-based lessons - on all our libraries*

Ministries of Education

*We **co-create** with government ministries to support teaching and learning, no matter the infrastructural barriers they face*



*We are piloting with UNHCR to **enable** relevant content and skills-delivery for refugee children, beginning in Ethiopia*



*We **leverage** the incredible resources and innovators within the ASU ecosystem to refine and advance our approach*

Our Libraries



Primary and Secondary Education

Locally relevant open-access, educational resources for schools and communities

- English language library: (1) Pacific Islands regional focus (2) East Africa regional focus (3) Refugee schools focus
- Spanish language library, Latin America regional focus



Nursing and Midwifery

Designed to serve instructors and students and across medical topics like Women's Health, General Medicine & Surgery, and Standards of Practice & Patient Care

- English language library, East Africa regional focus



Biomedical Technology

Designed to serve technicians and clinical workers that receive donated medical equipment but not the manuals or documentation necessary to use, maintain, and repair it

- English language library



Agriculture

Designed to serve farmers and features information aimed at increasing food security / agricultural productivity, including topics such as climate adaptation, livestock management, and organic farming

- English language library, East Africa regional focus



Thank You!

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solarspell.org



Q&A

Tell us what you think:

<https://bit.ly/DRIVESept14>

(Case-sensitive)

Learn more about DRIVE:

<https://www.rtacheshn.org/development-research-and-innovation-virtual-engagements-drive-convening/>



USAID
FROM THE AMERICAN PEOPLE



Thank you!

See you at the next DRIVE session!