

A stylized graphic of blue circuit lines and nodes, resembling a network or data flow, surrounding the text.

*digi-***KNOW?**

Digital Strategies

Education: Evidence from the Field

Welcome



Presenters

Dr. Mary Jane Parmentier



Dr. Faheem Hussain



Poll #1 – Regions represented?



- ☐ Africa
- ☐ Asia
- ☐ Europe
- ☐ Latin America and the Caribbean
- ☐ Middle East
- ☐ North America
- ☐ Oceania

Digital Technologies & Development

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What is Development?



Non-linear process

Encompasses social, economic, political, cultural

Economic growth *and* human development

USAID Metrics: Journey to Self Reliance

Commitment

- Open and accountable government
- Inclusive development (gender)
- Policies: trade, business environment, environmental protection

Capacity

- Government services: effectiveness, tax administration, security
- Civil society and media
- Citizens: education, health, poverty
- Economy: PPP, ICT usage, export diversity

USAID Journey to Self-Reliance

Education Sector Relevance and Relationship

- ❖ Education noted as key to human development (part of Human Development Index)
- ❖ Educating citizens touches upon all of the other sectors: capabilities to participate in government, in the economy
- ❖ Most critical to development and self-reliance?

Digital Technologies/ICT* – What are They?

A range of multimedia and communication tools:

- Media networks – fixed or wireless
- Hardware – computers, mobile phones, tablets, etc.
- Software – social media services, multi-media applications, mobile applications, etc.
- Interfaces with “old” media such as radio, television, and telephone


*ICT = Information and Communication Technology

Poll #2: Technologies in use?

Which technologies are in use for education in your country/region?
(select all that apply)

- ☐ Fixed networks
- ☐ Computers/tablets
- ☐ Mobile phones/smart phones
- ☐ Software
- ☐ Interface with “old” media

Be Thinking About...



What digital technologies and systems are relevant for education in your country/region?



We'll revisit this question during the Q & A.



Digital Technologies in Education



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Digital Technologies in Education: Opportunities & Benefits

- Empowering learners
- Digital technologies as effective education tools
- Transcending geopolitical boundaries
- MOOCs
- Education management
- Beyond traditional classrooms



Poll #3-

Digital Technologies in Education: Opportunities & Benefits



Which of these opportunities or benefits are related to your work?
(select all that apply)

- ☐ Empowering learners
- ☐ Transcending geopolitical boundaries
- ☐ Beyond traditional classrooms
- ☐ Education management
- ☐ Digital technologies as effective tools
- ☐ Delivering education in times of crisis

Digital Technologies in Education: Challenges or Risks

- Absence of proper content
- Infrastructure
- Lack of teachers
- Discrimination against women, minorities, other groups
- Privacy and security issues
- Technological determinism: disconnected designs, applications, hardware-centered policies



Poll #4

Digital Technologies in Education: Challenges or Risks



Which of these risks have you encountered? *(select all that apply)*

- ☐ Lack of infrastructure
- ☐ Lack of effective policies
- ☐ Lack of human resources
- ☐ Gender or minority inequity
- ☐ Compromised privacy or security



Field Evidence



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USAID
FROM THE AMERICAN PEOPLE

SolarSPELL*: An Offline Digital Library

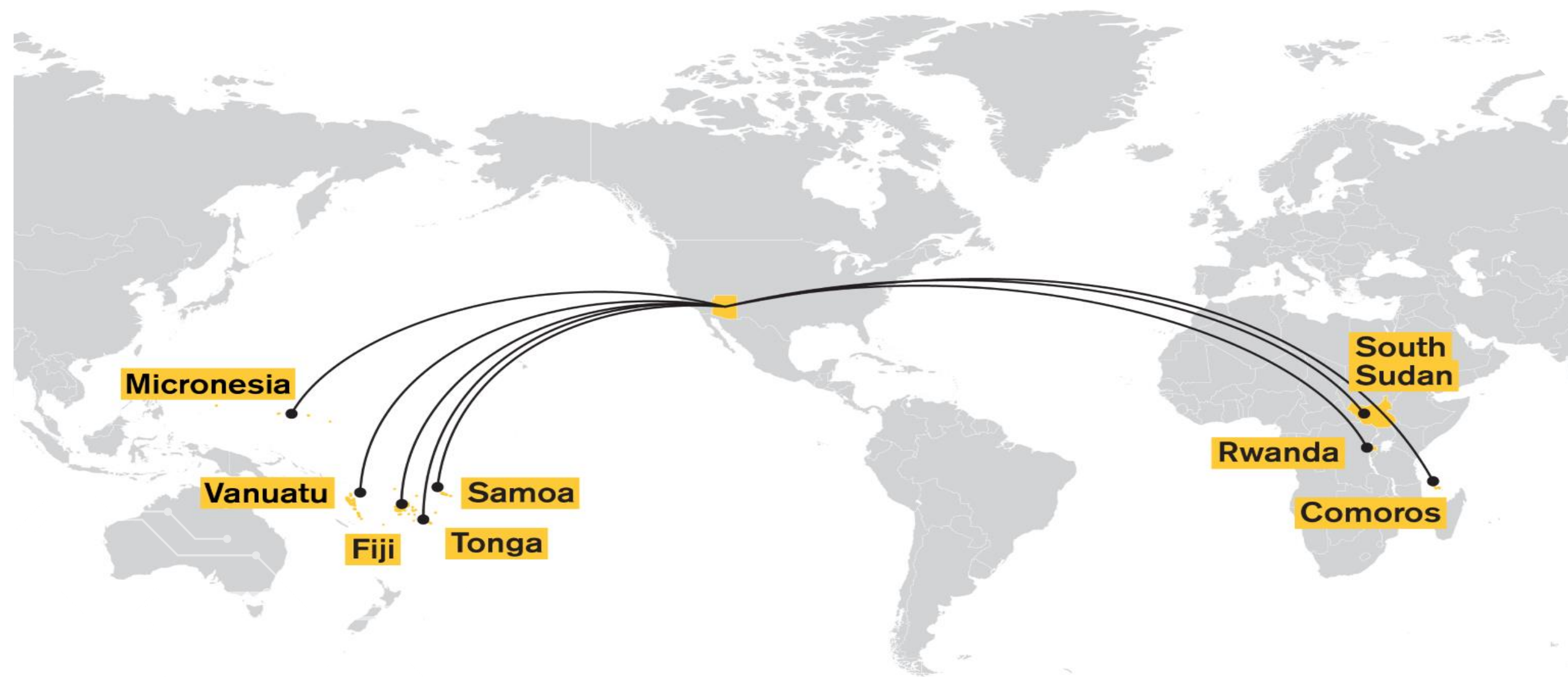
*Solar Powered Educational Learning Library (SPELL)

Ruggedized,
portable, solar-
powered, digital
library over an
off-line WiFi
hotspot

Mimics online
experience so
internet-ready
skills can be
taught offline

Provides relevant,
localized educational
content to low
resource locations
around the world

...and 222 health workers have carried out training with local teachers, health care workers, and Peace Corps volunteers to deploy the first 365 SPELL libraries.



SolarSPELL in Classrooms

East Africa



South Pacific



Informal Education in Ecuador - Dreambuilder



Formal Education in Bangladesh



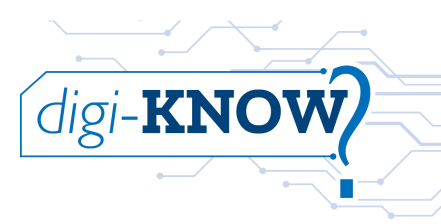
- Bangladesh government is implementing a long term plan, integrating Digital Technologies and Education
- Primary focus on infrastructure and content development
- Increasing equity and inclusion in education

Formal Education in Bangladesh, continued

- Jaago Foundation, a voluntary organization has a network of Digital Schools
- Work with underprivileged children
- Provide education in remote areas using digital solutions



Emerging Technology Trends in Education



Artificial Intelligence, Augmented Reality, and Virtual Reality

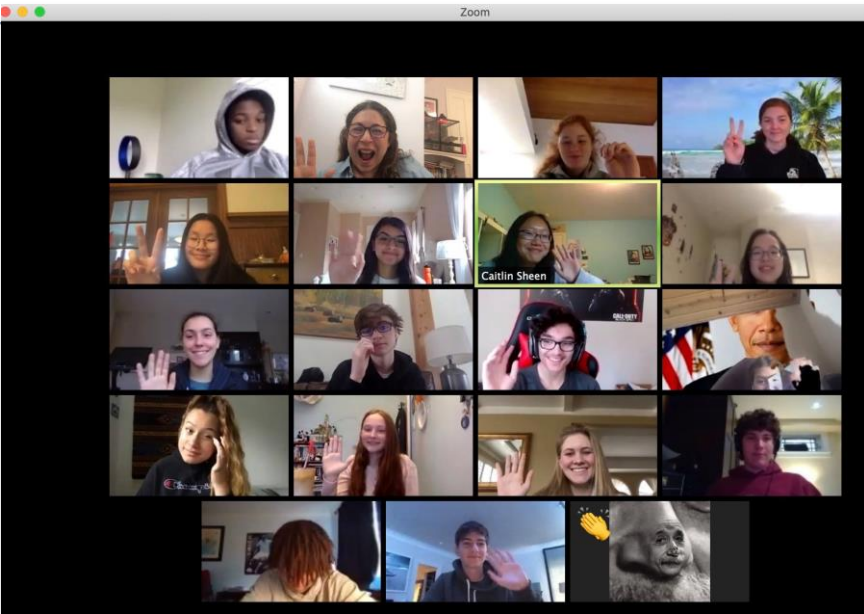
- AI is integrated to monitor student performance and to better facilitate learning
- AI supports hands-on learning at the elementary level
- Students' level of gaining knowledge increased, through higher levels of peer-interactions and hands-on learning
- Beijing National Day School has no head teachers and no set classrooms - students have different schedules, can choose from more than 400 classes
- Xiaoyi, a teaching aid program, to answer students' questions



Online Education

- Online learning and teaching options through schools and universities
 - Online only education institutions from primary through higher education
 - Traditional universities with online offerings
- Education platforms, applications, hybrid offline-online services
 - Zoom, Google Hangout, Facebook Live
 - Khan Academy, Coursera, edX, Udemy, Lynda
 - Moodle, Google Classroom, Canvas

Delivering Education in Times of Crisis



Delivering Education in Times of Crisis

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The screenshot shows the website asuforyou.asu.edu in a web browser. The browser's address bar and tabs are visible at the top. The website header includes the Arizona State University logo, the text "ASU for You", and a navigation menu with links like "ASU Home", "My ASU", "Colleges and Schools", "Map and Locations", "Directory", and "SIGN IN". A search bar is also present. The main content area features a large yellow banner with a network pattern background. The banner contains the text "Options for every learner, at any age." and silhouettes of six people of different ages (a young child, a toddler, a young adult, a woman, a man, and an older woman) standing on a horizontal line. The ASU for You logo is displayed at the bottom of the page.

← → ↻ 🔒 asuforyou.asu.edu

Apps ASU USAID elearning images Canvas SOS Sust Behavior Sust Strategy Sust Resources Exec Ed Articulate » Other

ASU Home ▾ My ASU Colleges and Schools ▾ Map and Locations ▾ Directory | SIGN IN

Search 🔍

ASU Arizona State University

ASU for You

Options for every learner, at any age.

ASU for You

Delivering Education in Times of **Crisis** – What Can Be Done?

Hybrid Solutions

- Multi-platform approach
- Offline-Online combination
- Old Digital/Analog solutions (Radio, Newspaper, TV)
- Use of popular, less conventional platforms (TikTok, Imo)

Evolving Pedagogy

- Ensuring interactions, feedback
- More learner-centered
- More focus on learning goals/outcomes
- Less focus on grades/numbers/GPAs

Poll #5



Digital Technologies in Education: Delivering Education in Times of Crisis

What are the most important factors to focus on for providing education using digital technologies in your country/region? *(Select all that apply)*

- ☐ ICT Infrastructure
- ☐ Teacher Training
- ☐ Appropriate Teaching/Learning Content
- ☐ Cost of ICT Access
- ☐ ICT Literacy
- ☐ Government Policy

Q & A

What questions or comments do you have about the information presented?

Enter your questions and comments in the Chat box.

Conclusion

- ✓ Education is key to JSR
- ✓ Digital tools are key to education
- ✓ Digital tools, are constantly emerging, require effective use/adaptation
- ✓ Global pandemic illuminates the need for infrastructure/training
- ✓ Resources are available



Thank you for joining us today

Arizona State University

Mary Jane Parmentier and Faheem Hussain

