

Extending the Reach of Libraries
31 January-1 February 2018
Arizona State University
Tempe AZ

Arizona State University is pleased to host this summit on the campus of an institution that describes itself with this charter:

ASU is a comprehensive public research university, measured not by whom it excludes, but by whom it includes and how they succeed; advancing research and discovery of public value; and assuming fundamental responsibility for the economic, social, cultural and overall health of the communities it serves.

Through cooperation between the School for the Future of Innovation in Society and the University Library, ASU has been increasingly engaged in the endeavor to bring the highest quality information of the sort curated by libraries to people at and beyond the edges of the political and network space as now constituted. We have joined with Libraries Without Borders to host this summit to bring together a sampling of other parties engaged in this work to explore mutual interests, discover synergies, and imagine still more ambitious futures. This document introduces the participants in the summit.

1. Jim O'Donnell (jod@asu.edu)

Jim O'Donnell is Professor of Historical, Philosophical, and Religious Studies at Arizona State University and also University Librarian. He has a long history of activity in using information technology to advance educational enterprises and formerly served as Vice Provost for Computing at the University of Pennsylvania and as Provost at Georgetown University.

2. Laura Hosman (laura.hosman@asu.edu)

Dr. Laura Hosman is Assistant Professor at Arizona State University, holding a joint appointment in the School for the Future of Innovation in Society and in The Polytechnic School. Her action-oriented work focuses on the role for new technologies in developing countries, particularly in education. She brings her passion for experiential learning to the classroom and beyond, through real-world-focused, project-based courses that bring students and student-built technology to the field for implementation. The SolarSPELL (Solar Powered Educational Learning Library), is an offline, portable, ruggedized, localized digital library designed for resource constrained locations lacking electricity or Internet connectivity, came to fruition through such courses and remains a university-based endeavor, involving students, faculty, and staff in all aspects of the project. The SolarSPELL digital library has been deployed to over 200 schools and health care clinics across the Pacific Islands and East Africa.

3. Lorrie McAllister (lorrie.mcallister@asu.edu)

Lorrie McAllister is Associate University Librarian at ASU for Collections and Analysis and has engaged with Professor Hosman on the SolarSpell initiative, traveling with colleagues to Tonga and to Micronesia on working trips for the initiative. She joined ASU from MIT in 2016 and has already appeared as P.I. or co-P.I. on three successful applicants for grant support from the Andrew W. Mellon Foundation.

4. Ann Okerson, CRL and IFLA (aokerson@gmail.com)

Ann Okerson has been engaged in e-journal publishing and librarianship since 1989, was associate director of the Yale University Library from 1996-2011, and now works with the Center for Research Libraries, INASP, and CERN's SCOAP³ project for open access publishing in high energy physics. She was a leader in the formation of Research4Life and some its initiatives and regularly works with librarians and scientists in developing nations to advance their capacity for accessing and using scientific and scholarly information. She is now serving for the second time on the Governing Board of the International Federation of Library Associations (IFLA).

Libraries Without Borders (aka **Bibliothèques sans frontières**) is ASU's partner in organizing this summit. Several colleagues from LWB join us, including Executive Director Jérôme Lachal (Jeremy.Lachal@bibliosansfrontieres.org), Muy-Cheng Peich (muy-cheng.peich@bibliosansfrontieres.org), Esteban Santiago, Florian Heslouin, and Allister Chang. A brief description of LWB's mission and activities:

INVENTING THE 21ST CENTURY LIBRARY: Since its founding in 2007, LWB has been striving to invent the 21st century library. More than just a collection of books, libraries now have a cross-cutting impact on society, from fighting poverty and social inequalities to capacity building, to stimulating creative energies and entrepreneurship.

What is a man, a woman, a child, once safe, food and shelter provided, if they can not read, write, draw or communicate, and thus take back their place in the human community, to envision their future and start fresh?

Ideas Box:

The story of the Ideas Box begins in 2010. Our team was building libraries in Haiti when a devastating 7.0 earthquake hit the island. We prepared to leave so that humanitarian aid and reconstruction efforts could begin. However, our local partners asked us to stay and help them create information and cultural access points in the settlement camps where tens of thousands of Haitians were forced to live in the aftermath of disaster. While we respected our local partners' wishes, we wondered if this was the right time to build libraries and other learning spaces; not everyone had food, water, or shelter — did they really need books and internet?

At the insistence of our partners, we began working in camps for internally displaced persons (IDP). It was in these places where we witnessed firsthand the importance of information and cultural tools in disaster relief efforts, particularly in the lives of children. Our team on-the-ground watched the books they provided help children heal from trauma, counter the boredom of being without school or structured activities, and develop resilience.

This experience compelled us to collaborate with the French designer Philippe Starck and the UNHCR to create a pop-up multimedia center and portable library that could withstand the most difficult circumstances: the Ideas Box. The Ideas Box is an innovative tool that expands access to information, education and cultural resources to places that desperately need them — refugee and IDP camps, rural and isolated communities, and underserved urban spaces or indigenous communities around the world.

The Ideas Box is highly-durable, easy to set-up and energy-independent. Within twenty minutes of unloading the box, users will have access to a satellite internet connection, digital server, a power generator, 25 tablets and laptops, 6 HD cameras, 1 large HD screen, board games, arts and crafts materials, hardcover and paperback books, and a stage for music and theatre. Our expert team also

ensures that each Ideas Box is customized to meet local needs by collaborating with organizations, leaders and members within the community.

OUR AREAS OF INTERVENTION

Libraries Without Borders employs cross-cutting strategies to strengthen the capacity of people living in difficult circumstances throughout the world in 3 key ways: Humanitarian Emergencies & Post-Conflict Situations; Access to Information, Education & Cultural Resources; Entrepreneurship for Social Change

5. Anne Powell (apowell@inasp.info)

Anne Powell is a Programme Manager at INASP, an international development charity working with a global network of partners in Africa, Latin America and Asia. In line with our vision of research and knowledge at the heart of development, we work to support individuals and institutions to produce, share and use research and knowledge, which can transform lives. Our Strengthening Research and Knowledge Systems (SRKS) programme concludes in March 2018. At that point, we will be moving into several other projects which promote our same vision, including a new project entitled “Strong and equitable research and knowledge systems in the Global South” (SERKS).

At INASP, we believe that research and knowledge have a crucial role to play in addressing global challenges and contributing to the achievement of the Sustainable Development Goals. To realize this potential, we work in partnership to strengthen the capacity of individuals and institutions to produce, share and use research and knowledge, in support of national development. Our approach is based on an understanding that:

- Locally generated knowledge and solutions are key to solving local development challenges.
- Research quality is critical to ensuring that evidence is appropriate, relevant, and credible.
- Evidence and knowledge are central to designing and delivering socially just and effective policies.
- Everyone has an equal right to access the world’s collective knowledge, irrespective of geography, wealth, race, ethnicity or gender.
- Researchers from all types of institutions (academia, civil society and government) have an equal right to contribute their knowledge and evidence and to participate in the global problem-solving process in aid of development.
- Working in an integrated and systemic way is more effective in realising longer-term development.
- Our work must be grounded in a good understanding of the social and political contexts and the power dynamics within which we and our partners work.

See more of our strategy at <http://strategy.inasp.info/>

Anne is responsible for developing and implementing INASP’s information access work in 22 low income countries. She manages INASP’s access activities, supporting libraries and national university and research library consortia with access to and use of e-resources, including working with the most capable consortia to transition to sustainable local management of the provision of research literature – subscribed at vast discounts, negotiated free and Open Access. Anne leads INASP’s work with publishers offering access to their online research literature. Anne holds a Master’s degree in library science (University of British Columbia) and, prior to joining INASP, worked as a librarian and library educator in Zimbabwe for 21 years.

As INASP works to achieve greater equity in terms of access to research literature, including in fragile states like Sierra Leone and Somalia, in other countries new to INASP, and for refugees, Anne is very interested in contributing to and learning from this Summit.

6. Catalina Escobar, MAKAlA (catalina.escobar@makaia.org)

Catalina has a Mechanical Engineering degree (Universidad EAFIT), an MBA (The George Washington University), a specialization in International Cooperation for Development (CYES Foundation, Spain) and a Certificate in Non-Profit Management (Georgetown University). She has experience in the international, private and social sectors, in Colombia and abroad. She worked in Commerce One, a consulting company on web related businesses, during the dot-com boom. During six years, she worked with the World Bank managing web related projects that promote collaboration and knowledge sharing, at the Development Gateway and as part of the Intranet team. She has also been a consultant for the IADB on the topic of ICT for Development. After living for 7 years abroad, in the USA and France, she returned to Colombia in 2006 to start-up and manage MAKAI A. Catalina has almost 18 years of experience in social sector, digital development and international cooperation.

MAKAI A (www.MAKAI A.org) is a not-for-profit organization that promotes capacities for social development through cooperation, technology and innovation. MAKAI A 's work is implemented based on two pillars: (1) Technology for Social Change, (2) International Cooperation and Partnerships. In 2013 MAKAI A developed www.nodoka.co, a data and information driven initiative to promote resource mobilization, knowledge sharing and effectiveness in social sector. MAKAI A has reached more than 25,000 people and 3,600 organizations in Colombia and abroad.

Catalina has served as the President of the Board at the local NGO Association (Federación Antioqueña de ONG – www.faong.org) and is a Board Member at CorpoAyapel (www.corpoayapel.org).

Interests:

- Rural connectivity using TV White spaces and other alternatives
- MOOC
- Digital literacy / ICT Adoption
- Public Libraries
- IoT in libraries and public spaces
- ICT teacher training
- Principles for Digital Development
- Open data
- Data Literacy
- Digital Intelligence (DQ)

7. Natalie Brackett, INEE (Inter-agency Network for Education in Emergencies) – natalie.brackett@ineesite.org

Natalie manages and coordinates the activities of the INEE Standards and Practice Working Group and provides technical assistance on the INEE Minimum Standards, while promoting the resources, network tools, and other work generated by the Standards & Practice Working Group and sub-Working Group activities. Natalie received her M.Ed. in International Education Policy and Management from Vanderbilt University's Peabody College in May 2017, and she holds a B.A. in Anthropology and Religious Studies from Washington University in St. Louis. Natalie has four years of experience as an educator, researcher, and practitioner supporting humanitarian and international development organizations, including prior experience with the International Rescue Committee, Lutheran World Relief, and community based NGOs across South and Southeast Asia.

The Inter-Agency Network for Education in Emergencies (INEE) is as an open global network of more than 14,000 members working together within a humanitarian and development framework to ensure all people the right to quality and safe education in emergencies and post-crisis recovery.

INEE provides a forum to share experiences, lessons learned, good practices, and opportunities to work collaboratively to develop resources and inform policy through consensus-driven advocacy. INEE serves its members through a range of functions, including community building, convening diverse stakeholders, knowledge management, advocating and amplifying ideas and knowledge, facilitating collective action, and providing members with the resources and support they need to carry out their work on education in emergencies. Members receive regular communications on relevant topics and access to resources, news, events, and job opportunities through the INEE Toolkit and website. Learn more at www.ineesite.org.

8. Stéphane Coillet-Matillon, Kiwix (stephane@kiwix.org)

Stéphane Coillet-Matillon is the head of Kiwix, an open-source software designed to bring internet content to people without internet access, no matter where they are and what platform they are using. Kiwix works like a browser, picking content from its library for offline use, be it Wikipedia, the Gutenberg library, TED talks or MOOCs.

Kiwix currently has around a million direct downloads each year. It is also used by organizations around the world to power their own offline solutions and programs, from Africa to Cuba to North Korea, or even in European and US prison systems, bringing its total user base to approximately 3-4 million people.

Kiwix is an offshoot of Wikimedia Switzerland and supported by the Wikimedia Foundation - it is currently based in Lausanne, Switzerland.

9. Jason Griffey, LibraryBox (griffey@gmail.com)

Jason Griffey is a librarian, technologist, researcher and writer. He is an Affiliate Fellow at the Berkman Klein Center for Internet & Society at Harvard University, where he does research on decentralization, blockchain, AI, and other near-future technology issues. He is the creator and director of two open source hardware/software projects for libraries, Measure the Future (<http://measurethefuture.net>) and the LibraryBox Project (<http://librarybox.us>). Jason's interest in off-grid networking that led to the LibraryBox project is driven by his childhood in rural KY, and his current residence in equally rural TN. He works with libraries and higher education under the banner of his company, Evenly Distributed LLC (<http://evenlydistributed.net>) as a consultant and speaker on technology issues, privacy, copyright, maker tech, blockchain, AI, and host of other topics.

10. Kimberly Parker, Research4Life and the World Health Organization (parkerk@who.int)

Research4Life is a collaborative public-private partnership, designed to support research conducted in lower income countries. The initiative provides free or low-cost online access to an extensive range of online scientific and professional publications in key areas related to improving quality of life. The publications include subscription-based and open access resources. Through the five subject portals that make up Research4Life, the initiative provides research materials for academics, students, practitioners, and government personnel. The goal of Research4Life is to help researchers in educational, research, and policy institutions in more than 100 lower income countries participate fully in the global scientific and development community.

Higher education, the work of practitioners, and public policy decisions require access to scientific professional research. Many see higher education as a critical frontline in improving the development environment in lower income countries, where tomorrow's leaders in the public and private sectors are trained and new ideas are advanced. Education is the forum where people interact with their peers around the world, especially in the age of the internet.

Partners in Research4Life include the World Health Organization (WHO), the Food and Agriculture Organization (FAO), the United Nations Environment Programme (UNEP), the World Intellectual Property Organization (WIPO), the International Labor Organization, the International Association of Scientific, Technical and Medical Publishers (STM), Cornell University, Yale University and several technical partners. Since 2002, the five programmes – Research in Health (Hinari), Research in Agriculture (AGORA), Research in the Environment (OARE), Research for Development and Innovation (ARDI) and Research for Global Justice (GOALI) . More than 8,000 institutions in more than 115 developing countries and territories have free or low-cost online access to up to 81,000 leading journals, books and other resources in the fields of health, agriculture, and environment, technology and law.

The World Health Organization is responsible for health topics within the United Nations system. There are 194 member states (countries) of WHO. WHO receives direction from its members every year. One of those strong directives has been to help equalize access to information amongst member states so that all can participate in the work of improving global health.

WHO supports Research4Life and Hinari through:

- Maintaining the Research4Life Help Desk and user support
- Validation and processing of institution registrations for the access
- Managing & hosting the authentication server
- Managing & hosting the user portal database and content websites
- Annual publisher confirmations of contacts, content and country offers
- Hinari website

11. Don Means, Director, Gigabit Libraries Network (info@giglibraries.net)

GLN operates as an open collaboration of tech savvy, innovation libraries cooperating as a distributed global testbed/showcase environment for high performance applications and equipment in the service of educational, civic and cultural objectives. We advocate for libraries as natural community ICT hubs while also championing highest global standards of free, open access to information and expression.

Project focus areas:

- Funding projects in use of open license spectrum(TV Whitespace/ WiFi) to extend access to &/or through library facilities for wider Public Access.
- Working with IEEE, ISOC, IFLA and others advocating for Public Access as necessary component of any realistic strategy to bring the next billion(s) into global digital conversation.

12. Mary Ochs, Cornell University (mao4@cornell.edu)

Mary Ochs is the Director of the Albert R. Mann Library at Cornell University, which is noted for its strong collections and services in agriculture and life sciences. Mary has been involved with the Library's two special programs for delivering agricultural literature to the developing world, [TEEAL \(The Essential Electronic Agricultural Library\)](#) and [Research4Life/AGORA](#), from their inception.

TEEAL is a digital collection of over 450 key research journals for agriculture and related sciences. TEEAL allows for discovery and access to thousands of full-text PDF articles without the use of the internet. TEEAL works with participating publishers to develop the digital library collection and distribute it on a stand-alone computer, which can be connected to the local area network at an institution with TEEAL. TEEAL is available to universities, research institutions, governments, extension organizations and other not-for-profit institutions in income-eligible countries. TEEAL works hand-in-hand with Research4Life/AGORA in

support of access to the agriculture and life sciences research literature and capacity building to enhance use of these resources. Cornell has also partnered with [ITOCA \(Information Training and Outreach Centre for Africa\)](#) on a wide variety of training initiatives focused on building research skills, including the effective use of TEEAL and AGORA.

13. Adam Holt, Internet-in-a-Box (holt@unleashkids.org)

Internet-in-a-Box works with Wikipedia's Foundation, the Internet Archive and community school systems around the world (e.g. <http://kidsoncomputers.org> etc) transforming what Community Learning Libraries can truly be. What brought libraries alive over generations (Jefferson's Taper "receives light without darkening me") is the same collaborative fire now Burning For Learning, *bringing high-powered \$10+ portable digital libraries across the planet...*

The unheralded yet vibrant "offliner" content-engineering movement is the foundation underlying this all, creating high-quality Content Packs for all, working through events like the 35-person Medical/Education Weeklong Hackathon we organized in New York in August: <http://OFF.NETWORK> These are the unsung community curator heroes cutting tight offline Wikipedias, local editions of OpenStreetMap and Learning Packs of all kind (in many languages!) onto very compact offline devices for all. Thereby unleashing formal and informal education environments — in some of the most unvarnished communities worldwide.

EXAMPLE: Working closely with Wikipedia's own Medicine/Health community team (led by Doc James Heilman) Internet-in-a-Box servers are in rural clinics in the Dominican Republic and Guatemala, thanks also to Columbia University and Mt Sinai Hospital in New York City. None of this would be possible without years of Infrastructural Investment by Kiwix, RACHEL, Khan Academy / KA Lite, Project Gutenberg, Archive.org, Sugarizer.org, Nextcloud, the Raspberry Pi Foundation, Learning Equality (etc!) *now converging rapidly on our common goals...*

2007-2017 was just the first decade bringing early samples of the world's best open content to billions out there who don't have 5G satellite phones, And Never Will. The next decade will crack open the floodgates, for those cultures/people who prioritize peer learning. Offline mediamaking with a purpose (products like Internet-in-a-Box) portend content just as free and open source as its software — an entirely new ecology of knowledge. As such it's time to secure humanity's "Offline Internet" digital libraries, using grassroots technologies (like the \$10 Internet-in-a-Purse) building on the visionaries who conceived of the original citizen's ARPANET half a century before us—*but did not finish the job...*

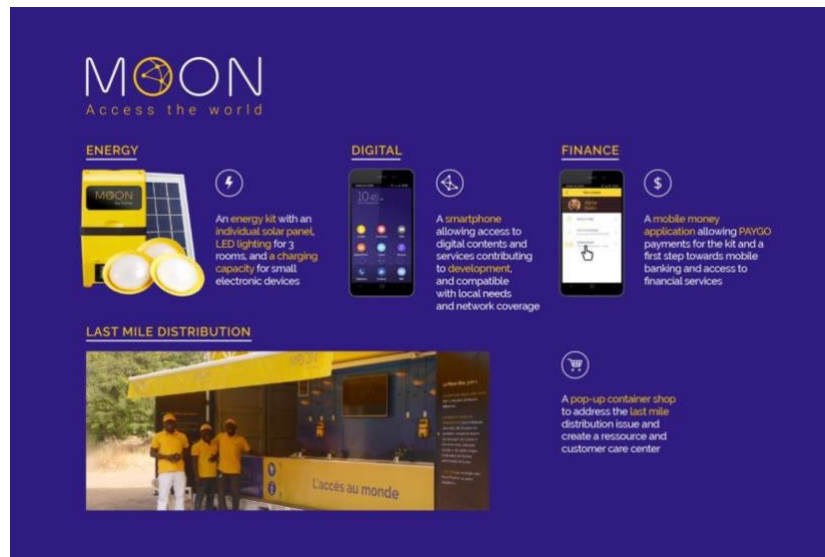
14. Deanna Del Vecchio, Rumie Initiative (Deanna@rumie.org)

The Rumie Initiative is a non-profit tech startup that aims to bring the Internet's vast range of learning content to the communities least able to access these resources but with the most to gain. Our model involves offline, low-cost tablets that collect analytic data to record usage and student progress. Rumie devices feature high-quality digital content, crowdsourced from the LearnCloud; our online repository of open-licence educational material. Partnerships in 23 countries over the last four years have provided us with robust feedback from the field that allow us to reiterate and apply lessons learned. Priority areas include education for Syrian refugees in Turkey, Lebanon and Jordan; and programs for remote Indigenous communities in Canada, focused on language revitalization and mother tongue instruction.

Deanna Del Vecchio is Head of Partnerships at The Rumie Initiative, a non-profit EdTech startup. Her career in education has included classroom teaching from primary to post-secondary, community-based learning, teacher training, and research. She draws on her passion for environmental issues and the arts to engage young people in social change. Deanna has led community projects around the world and sat on a committee of the Canadian Commission for UNESCO. She is a Ph.D. candidate in Education at the University of Toronto.

15. Laura Pargade, MOON Project/Sunna Design

Sunna Design is originally a solar energy social company, tackling in emerging countries the issue of access to energy for rural populations. But with the Moon project, the idea is to try and contribute to development by adding digital and financial inclusion to energy inclusion and bundling for the first time a smartphone, with dedicated contents, to the energy kit. Giving access to information and to a first digital quality experience is key for these populations. Off-line internet is the revolution they are waiting for.



16. Clifford Missen, WiderNet, <http://www.widernet.org/> (missenc@widernet.org)

"WiderNet's eGranary Digital Library

WiderNet is dedicated to improving digital education and communications for all communities and individuals around the world. We develop and distribute the eGranary Digital Library, a plug-and-play server that provides instant access to millions of digital documents without the need of a connection to the Internet. This off-line library has been adopted by nearly 2,000 institutions in developing countries, as well as 25 prisons in the U.S.

A U.S. 501c3 nonprofit organization, affiliated with WiderNet@UNC at the University of North Carolina at Chapel Hill, we also provide resources, coaching, training, computers and educational materials to schools, clinics, libraries and homes in underserved areas of the world."