Global Digital Development Summit

Agenda | APRIL 27-29, 2021

Day 1: Tuesday, April 27

Time CET	Details
12:15 - 13:00	**Digital Doors Open** Feel free to network, review today's schedule, visit the virtual expo area, or watch a tutorial video on how to navigate on Hopin's platform.
13:00 - 13:15	**Opening Session and Remarks** Welcome message from the organizers (Nina, Nicola, Hannah, Darlene)
13:15 - 13:45	**Keynote Address** Andrew Bastawrous, Peek Vision
13:45 - 14:00	Break
14:00 - 14:45	**Implementing a Novel Immunisation Tracking Pilot Program for Cross Border Populations** Bashir Ahmed, Intergovernmental Authority on Development **Description:** This breakout session will provide attendees with an overview of an innovative immunization tracking solution for cross border populations. Challenges in implementing such solutions in rural settings will be discussed and how these challenges were overcome. The benefits of the solution will be highlighted and audience participation is encouraged throughout the session. The session includes live demonstrations as well as videos of the actual implementation. **Technical Level:** Somewhat technical

14:00 - 14:45	**Global Health Security: One Health and Digital Development - Challenges and Opportunities Exposed During the COVID-19 Pandemic** Joseph Wu, Luke International Malawi **Description:** This session will focus on the challenges observed during the COVID-19 pandemic response in Malawi with the lens of global health security concerns, One Health approach, and opportunities for digital development in the post-COVID-19 era.
14:45 - 15:00	Break
15:00 - 15:45	**Breakout sessions**
	Using Hyperlocal Geospatial Data to Build Country-specific COVID-19 Vaccine Equity Models Kenneth Davis and Geoff Tam, Fraym **Description:** In this session, we will outline our experience using hyperlocal geospatial data to 1) map historical vaccination trends, 2) analyze underlying factors related to vaccination rates, 3) develop COVID-19 risk and vulnerability indices, and 4) combine this insight to create COVID-19 Vaccine Equity Models tailored to the country context. We will showcase how donors, implementing partners, and government stakeholders can use geospatial insight to inform their pandemic responses and vaccination campaigns. Finally, we will showcase a completed COVID-19 Vaccine Equity Model in one country, highlighting the model's findings, methods, inputs, strengths, weaknesses, and lessons learned. **Technical Level:** Somewhat technical
	Health Information Products • Serge Somda, West Africa Health Organization (WAHO) • Frank Adjei-Banin, BroadReach LLC **Description:** Developing countries have always faced weak data issues and low capacity to manage it. This complicates political decision-making and the monitoring and evaluation of these policies. In the health sector, as in many others, efforts have been made to strengthen countries' capacities to collect and manage data, mainly routine data. The USAID-funded Regional Action through Data (RAD) initiative has sought to address the next

	stage of the problem: promoting the production of health information products and promoting their use for policy making. They have thus supported the West African Health Organization (WAHO), which brings together 15 African countries in this direction. With the support of the RAD program, WAHO has set up the systematic production of weekly epidemiological bulletins. It then undertook to provide health information bulletins every six months and a report on the health situation in the region every year. Finally, every five years, a holistic report on the health profile of each country in the region will be presented. The RAD initiative has also made a major contribution to the management of conjunctural problems such as the COVID-19 pandemic by offering interactive dashboards or mathematical models for decision-making. Finally, the organization is aiming at setting up a Regional Health Observatory (RHO) which will put all the available health information on the region in one single platform. The proposed workshop session aims to catalyse dialogue and further reflection on the systematic production of health information from routine data and its use for decision-making. The partners will contribute their experience in order to build milestones for a better mastery of decision-making.
	The Power of Upfront Thinking: Ensuring Digital Solutions Help You Monitor, Evaluate AND Learn from Your Work Kim Longfield, Databoom **Description:** The two most common mistakes we see organizations make when creating a monitoring, evaluation, and learning (MEL) system involve a lack of upfront thinking: 1) measurement is disconnected from strategy; and 2) there is a rush to build digital data solutions, including dashboards, without defining the problem that is being solved. During this session, participants will learn why it is good practice to invest in upfront thinking before building a MEL system. Participants will also receive tools to guide upfront thinking and maximize data use and learning. **Technical Level:** Somewhat technical
	Towards Tailored Perinatal Health in Zanzibar Through Machine-Learning Heiko Hornung, D-tree International

	Description: This session will address the different questions that need to be considered when designing front-line health services like health promotion delivered by Community Health Workers when these services are enabled by predictive machine learning models for example for putting clients on tailored care pathways. We will explore how human-centered design can be used to bring together health, technology and program implementation specialists to responsibly design these services, considering the limitations and possibilities as well as potential risks and chances of machine learning models. **Technical Level:** Somewhat technical
	The Future of Digital Health: Improving Access to Surgical Care through Innovation Dr. Nadine Hachach-Haram, Proximie **Description:** Proximie, founded by surgeon Dr. Nadine Hachach-Haram BEM, is a secure, augmented reality cloud-based platform for virtual surgical collaboration allowing surgeons and educators to "scrub in" from wherever they are in the world on extremely low bandwidth using simple, elegant tools. Proximie serves as a powerful innovation to level the playing field for surgical providers and team-based training, as well as access to surgical care across all regions. Dr. Hachach-Haram will demonstrate this novel technology and share perspectives on how Proxime can be leveraged in different health contexts to improve access to high quality surgical care and education. **Technical Level:** Not technical
15:45 - 16:00	Break
16:00 - 17:00	**Panel 1: Emerging Frontiers: Novel Data, Ethics, Practical Applications** Facilitated by Tyler Smith, Cooper/Smith • Sveta Milusheva, World Bank • Kiernan Sharpey-Schafer, Palindrome Data • Dr. Annie Chauma Mwale, Public Health Institute of Malawi • Mark DeZalia, Office of the US Global AIDS Coordinator and Health Diplomacy (S/GAC) **Description:** This panel will draw on a diverse group of digital visionaries, technical experts, and country-level practitioners. We will discuss the hard questions of balancing

	opportunity, need, risk, and expected benefit when using potentially sensitive data for public good.
17:00 - 17:05	**Closing**
17:00 - 17:30	**Expo** Please visit our vendor booths in the Expo area

Day 2: Wednesday, April 28

Time CET	Details
13:00 - 13:45	**Remote Stewardship and Support of Frontline Health Workers using their Mobile Phones: Key Learnings from Interventions using different approaches: WhatsApp, IVR, and Moodle** Daniel Messer, Wycliffe Waweru and Rodrigo Gramajo, PSI **Description:** This session will be focused on sharing experiences on remote stewardship and support of health providers, with an emphasis on capacity building driven remotely through the providers mobile phones (both smartphone and basic handset solutions). Our presenters will provide insights on the various technological approaches taken, highlighting user experience and outcomes, cost effectiveness and scale potential. The presentation will touch on interventions targeting community health workers, private sector health providers as well as public sector frontline workers.
13:00 - 13:45	**Designing AI Use Cases for Data Quality Using Advanced Algorithms** • Matthew Deas, Jhpiego • Charles Waka, Jhpiego **Description:** The speakers will share how Jhpiego has utilized dedupe Python algorithms and CSVDedupe to cluster and identify potential participant duplicates. The speakers will describe how they scaled the Python algorithms; the output for a large dataset, and the performance. This is important as it allows for entity resolution and fraud detection in programs where participants are remunerated for their participation.

13:45 - 14:00	Break
14:00 - 14:45	**Using Digital Dashboards to Strengthen a Media Movement: The Experience of MTV Staying Alive Foundation** • Jessica Gergen, Visualst • Yvonne Diogo, MTV Staying Alive Foundation • Kim Longfield, Databoom **Description:** The speakers will share how the MTV-Staying Alive Foundation (MTV-SAF) has learned to use evidence displayed in digitized dashboards to sharpen its programmatic approaches. Dashboards leverage various data sources, including social media metrics, broadcasting, polling, and peer education data. Timely analytics allow MTV-SAF to monitor each country's campaign, compare campaigns over time, and pivot programming. We will describe: 1) the challenges MTV-SAF faced with its evidence; 2) how we created a centralized data management system with digitized dashboards; and 3) how leadership and staff are using results to strengthen programs on the ground and generate improved health outcomes for audiences. **Technical Level:** Somewhat technical
14:00 - 14:45	**Digital Ecosystems: Applying the 6 "P"s in the Transition to Digital Economies** Dragana Stanojevic and Raj Prasad, Cardno International Development **Description:** Cardno International Development has been helping Serbia create e-commerce ecosystems, contributing to a digitally ready workforce, and creating financial instruments tailored to small businesses. This required a culture shift necessary at all levels of society. The urgency of this shift was further heightened under the sudden COVID-19 lockdowns in the country and where regional trade was affected. Join us as Cardno shares experiences on digital transformation as a tool to create a more inclusive and resilient economy through our six "P"s for a successful and sustainable transition. **Technical Level:** Somewhat technical
14:45 - 15:00	Break
15:00 - 15:45	**Breakout Sessions**

	Rapid Deployment of a Last-Mile Data Collection Tool • Valerie Kerns, BAO Systems • PhuongThao (PT) Le, HealthRight International • Samuel Wasereka, HealthRight International • Hanna Radionovska, HealthRight International **Description:** Dharma Platform is an easy to use, mobile data collection tool that can be immediately deployed to capture real time data, regardless of connectivity. During this session, we will explore the ease in which Dharma can be configured to meet a range of data collection needs, from population based surveys, to longitudinal tracking, to client case management across programs.
	Use of Artificial Intelligence for TB Case Detection in Nigeria Okey Okuzu, InStrat Global Health Solutions **Description:** InStrat's Early Warning (disease) Outbreak Recognition System (EWORS) uses routine clinical and non-clinical data to feed algorithms that predict the likelihood of occurrence of a disease outbreak in each geographical area. Such predictions automatically generate and send email and SMS alerts to disease surveillance officers that warn of potential outbreaks. InStrat has deployed EWORS as a real time TB Surveillance system using Artificial Intelligence to detect the existence of undetected TB spread in communities. This session will discuss the design, deployment, management and impact of an AI tool for TB case finding in Nigeria. **Technical Level:** Not technical
	From Visualization to Utilization: Getting KAP COVID-19 Data to Decision-Makers Marla Shaivitz and Dominic Shattuck, Johns Hopkins Center for Communication Programs **Description:** Johns Hopkins Center for Communication Programs' KAP COVID dashboard presents data from a global survey of knowledge, attitudes, and practices around COVID-19. The data were collected from more than 1.7 million people in 67 countries who chose to participate in a survey promoted on Facebook. Researchers from MIT collected the data and Johns Hopkins CCP analyzed and presented the data in a series of dashboards. This session describes the process of visualizing and disseminating the data and efforts to ensure those who needed the data – policy makers, public health practitioners and WHO

	officials – were able to use it for decision-making in COVID-19 mitigation and vaccination efforts. **Technical Level:** Not technical
	Introducing a Handbook for Mobile Data for Development • Rachel Sibande, Digital Impact Alliance (DIAL) • Trish Dorsey, Digital Impact Alliance (DIAL) • Emmanuel Letouzé, Data-pop Alliance **Description:** In this session, we will present a guiding resource for mobile for development (MD4D) practitioners and walk through its uses and purpose. To put this into perspective, the MD4D guide book can be used by various stakeholders in the data for development ecosystem particularly decision makers and middle managers across a diverse spectrum encompassing but not limited to: Mobile Network Operators (MNO), National Statistical Offices, National regulatory authorities, NGOs, development practitioners, academic researchers, public sector officials, technical practitioners amongst others. **Technical Level:** Technical
	COVID-19 Vaccinations in a Digital World: Blockchain Solutions Dr. Inon Schenker, IMPACT **Session description:** The session will outline the challenges countries and communities face in protecting themselves from COVID-19 through universal vaccinations. We shall present 6 areas where blockchain mature solutions can help mitigate these challenges and support a resilient recovery in both high income and low income countries. **Technical Level:** Not technical
15:45 - 16:00	Break
16:00 - 17:00	**Panel 2: Investing in Fit for Purpose Sustainable Data Architecture** *Facilitated by Hannah Cooper, Cooper/Smith* • Marty Gross, Bill & Melinda Gates Foundation

	• Dr. Charles Holmes, Georgetown Center for Innovation in Global Health • Maganizo Monawe, Malawi MoH Digital Health Division • Dr. Boukary Ouedrago, Burkina Faso MoH • Cassie Morgan, Cooper/Smith **Description:** Our distinguished panel of global and country-level leaders are champions of data and digital technologies and understand the challenges and opportunities before us. We will discuss the nuance of sustainable investment with a view toward future models that outperform the current paradigm.
17:00 - 17:05	**Closing**
17:15 - 18:15	**Networking event** Join us for Networking in a virtual world where participants can network using live video. Think of the virtual world as a reception area where you walk around and meet fellow attendees!

Day 3: Thursday, April 29

Time CET	Details
13:00 - 13:45	**Using Biometrics for Verified Impact at the Last Mile** Toby Norman, Simprints Technology **Description:** Biometrics is becoming an increasingly-prolific underlying technology for Digital ID, and huge progress has been made in this area in global health programs. COVID-19 has increased the urgency of widening access to this technology: global health experts from the Centre for Global Development, the World Bank, and Gavi have argued biometric digital identity is a gamechanger for pandemic response. This session addresses some commonly asked questions around using biometrics at the last mile, including the use cases, barriers and the potential for impact. **Technical Level:** Somewhat technical
13:00 - 13:45	**Digital Solutions for Informed Malaria Control and Decision-making Amid the**

	COVID-19 Pandemic in Zanzibar Grace Murage and Jillian Berkowitz, Abt Associates **Description:** We will explore how the U.S. President's Malaria Initiative (PMI) VectorLink Tanzania program harnessed digital technology to deliver a life-saving malaria control intervention in the height of the COVID-19 Pandemic. Through key adaptations in how data were collected, the team ensured information was available in real-time for decision-making while practicing enhanced mitigation measures to protect personnel. Due to increased travel restrictions, the VectorLink Tanzania team used mapping functionalities to support day-to-day monitoring of an Indoor Residual Spraying (IRS) campaign for malaria prevention. The team built dynamic analytics products for granular program progress and coverage tracking, ensuring the protection of over 230,000 people from malaria in a brief twelve-day IRS campaign. The team also used analytics products to adapt and allocate resources towards community mobilization and measures to address reasons for non sprayed structures.
13:45 - 14:00	Break
14:00 - 15:00	**Panel 3: Improving Program Insights through Data Integration & Interoperability** *Facilitated by Busoye Anifalaje, BAO Systems* • Katherine Lew and Lars Helge Overland, BAO Systems • Scott Merritt, Jhpiego • Amina Abba Gana and Siaka Momoh, FHI360 **Description:** In today's digital age, we are inundated with data residing in multiple platforms, tools, and formats. How can we more easily integrate data across these systems to holistically analyze our data and generate better insights? During this panel presentation, BAO Systems, Jhpiego, and FHI 360 will describe their approaches to solving this challenge.
15:00 - 15:15	Break
15:15 - 16:00	**Breakout sessions**
	Predicting Retention and Viral Suppression in HIV Programs Lucien De Voux, Palindrome Data **Description:** In this session, Lucien with Palindrome Data will discuss how machine learning can be used to identify HIV patients at risk for defaulting on treatment and not being virally

	suppressed. Predictive modelling can improve targeting of interventions through differentiated models of care, increasing cost-effectiveness and improving patient outcomes. **Technical Level:** Somewhat technical
	Think Like a Technologist: Data Analytics and Decision-Focused Strategies for Global Health Juan Pablo Sarmiento, Zenysis Technologies **Description:** Too often in global development, data analytics focus on pretty visuals and sleek interactions, with comparatively little emphasis on the importance of knowledge generation or data use business processes. The global pandemic has exacerbated the need for data-driven decision-making that goes beyond data visualizations alone. This session will help participants prepare to extract knowledge from their data analysis tools and develop strategies that support informed decision-making. **Technical Level:** Somewhat technical
	DHIS2 and COVID-19 Vaccine Delivery Tools Mike Frost, HISP (University of Oslo) **Description:** This session will provide an overview of the available DHIS2 options and tools for supporting COVID-19 vaccination planning, delivering and monitoring, referencing specific country implementations. It will also provide practical guidance with regards to technical challenges, linking logistics and vaccine data, approaches for vaccine certificates, etc. **Technical Level:** Somewhat technical
	Preparing Large Data Sets (for e.g. Mobile Network Operator Data) for Analysis Michael Moszczynski, Cooper/Smith **Description**: In order to better respond to the COVID-19 pandemic unfolding in Malawi, Cooper/Smith received access to anonymized call and message records from a leading mobile operator in the country. Learn more about preparing large data sets in this practical how-to session.

	Technical Level: Technical
	Rapid Development of Digital Health Solutions for COVID-19 Response for the Ministry of Health: Design and Deployment Experiences from UNICEF, Lilongwe, Malawi Phidelis Suwedi, UNICEF Malawi **Description:** Implementation of digital health solutions for COVID-19 response may improve the management of COVID-19. We detail the experiences of the Ministry of Health, digital health technical implementers and UNICEF in the development and implementation of digital health solutions during a COVID-19 pandemic. **Technical Level:** Not technical
	Building Sustainable NHIS Foundational Technical Blocks for Efficient Data Use: The MoH of Burkina Faso Initiatives on Data Rationalization, Data Use and NHIS Governance. This session is in French • Dr. Boukary Ouedrago, Burkina Faso MoH • Dr Traoré Soumeila, Burkina Faso MoH • Dr. Gauthier Tougri, Burkina Faso MoH • Dr. Drabo Francois, Burkina Faso MoH • Dr. Rose Tinguérie, Burkina Faso MoH
16:00 - 16:15	Break
16:15 - 17:00	**Fireside chat: The Paradox of The Grand Bargain and The Global Pandemic** • Rachel Sibande, Digital Impact Alliance (DIAL) • Richard Gakuba, ICAP • Simon Ndira, Compelling Works **Description:** This session will explore how digital development and technology innovations have changed over the last few years and how donor funding trends are driving (or inhibiting) that development. In 2016, international donors committed to send as much as 25% of their annual funding directly to local organizations, in a promise called “The Grand Bargain''. This target has largely fallen short and in fact the Development Initiatives cites that it has actually decreased from 3.5 percent in 2016 to 2.1 percent in 2020. Simultaneously, the global pandemic has forced organizations to change the way they were supporting

	collecting data in new ways, which may have come with new funding. So this paradox of decreased funding combined with new data demands creates an interesting situation, which we will explore as well as other topics about where digital development is thriving and falling short.
17:00 - 17:10	**Closing** Thank you message from the organizers Nicola Hobby and Busoye Anifalaje, BAO Systems