Welcome!

Webinar Series

We will get started at the top of the hour

>>Please activate the Zoom Chat window for panelist and attendee interactions<<

YOU WILL EXPERIENCE SILENCE UNTIL WE START
WELCOME!

NetHope Solutions Center

Webinar

COVID-19 Health Data Management and Exchange

June 30, 2020
Housekeeping

• Let’s keep this interactive: Post questions in Zoom Chat window for the Q&A and discussion session

• Look for a follow-up email with link to recording and collateral on NetHope Solutions Center

• Please respond to webinar satisfaction poll presented after the webinar
Moderator:
Sonja Ruetzel
ICT4D Partnerships & Conference Manager
Catholic Relief Services (CRS)

Speakers:
Jonathan Jackson
Co-Founder, Chief Executive Officer
Dimagi

Katherine Lew
Director of Business Development
BAO Systems

Nathan Barthel
Senior Manager, ICT4D Business Development & Program Design
Catholic Relief Services
Discussion: Contact Tracing Innovation to Support Digital COVID-19 Response

Jonathan Jackson
Co-Founder, Chief Executive Officer
Dimagi
for COVID-19 Response
COVID-19 Local Response System

Web or mobile portal

A web or mobile portal for approved healthcare administrators and members of the COVID-19 response teams

SMS

SMS for registered cases and contacts to communicate with healthcare officials
CommCare COVID-19 Template Applications

Mobile Applications
- Port of Entry
- Facility Readiness & Stock Tracking
- Lab Test Tracking
- Contact Tracing
- Health Care Provider Training & Monitoring

Messaging*
- Community-Based Monitoring
- US Local Response System

Photo: Paul Chinn / The SF Chronicle
The template system is configured for 5 user types:

- **Main Teams**
  - Surveillance / Special Investigations for PUIs
  - Case Investigators
  - Contact Tracers

- **Sub-Teams**
  - Community Hubs
  - Investigations
There is not a one-size-fits-all approach.
Our Approach

Intuitive
Make the system easy-to-use

Scalable
Adapt and keep pace with the disease outbreak

Configurable
Customize solution for local context
Case Study
San Francisco Department of Public Health

Dimagi deployed a team to work with the San Francisco Department of Public Health and UCSF to build a system for surveillance and contact tracing based on CDC Guidelines.

The system was launched in 7 days and included:

- Suspected Case Screening
- Testing for Persons Under Investigation
- Confirmed Case Investigation
- Contact Tracing
- SMS-based Contact Monitoring
- Integration with Existing Systems

Photo: Paul Chinn / The SF Chronicle
Discussion: Supporting an Integrated Response to Reduce the Impact of COVID-19

Katherine Lew
Director of Business Development
BAO Systems
COVID-19 Health Data Management and Exchange

Improving data availability, accessibility, and transparency to facilitate an integrated response to reduce the impact of COVID-19
COVID-19 APPROACH

Maximizing data flow efficiencies

01
Quickly create sophisticated data collection apps.

02
Immediately collect data on- or offline for real time tracking.

03
Stream data into a scalable data warehouse for advanced analytics.

04
Integrate additional data sets to enrich analysis.

05
Evaluate insights. Maximize impact.
DATA COLLECTION

Gather data with less time, effort, and cost with Dharma Platform

SIMPLE FORM
Our point-and-click interface makes it easy to quickly set up - no code necessary.

OFFLINE
Unlimited offline usage. Immediately syncs when connected to cellular or wifi.

MESH NETWORK
Synchronized data between offline devices. Online updates without a network connection.

CLOUD BASED
Instantly scalable and shared on a private cloud.

SECURE
Encrypted on device, cloud transit, and rest.
Stream your data into one of the world’s most used information system

1. Configure a robust platform for aggregate or entity-based data
2. Deploy onsite or in a secure cloud environment
3. Collect data through a web-based portal or Android device
4. Monitor results in real time
5. Share data with other systems
6. Evaluate insights

Sources:
- Johns Hopkins - CSSEGISandData: https://github.com/CSSEGISandData/COVID-19/blob/master/csse_covid_19_data/csse_covid_19_time_series
- WorldOMeter: https://www.worldometers.info/coronavirus (for today's data only)
BAO Integration Suite

KoBo-to-DHIS2
The connector pulls data from KoBo into DHIS2 with minimal user interaction, allowing KoBo data to be analyzed with the powerful analytic tools within DHIS2.

DHIS2-to-DHIS2
Our Integration Driver facilitates data flow between two or more DHIS2 instances and performs basic transformations during the process, including data aggregation and calculation of new indicators.

DHIS2-to-PowerBI/Tableau
Our user friendly data flow, allows individuals to integrate data sources, create more complex calculations, and access a large selection of data visualizations.
INTEGRATION & INTEROPERABILITY

BAO Analytics Platform

- **EFFORTLESS DATA INGESTION**
  Seamless connection to popular data systems, tools, and formats.

- **ACCESS TO PUBLIC DATA SETS**
  Access a curated catalog of publicly available data sets to enrich analysis.

- **EXPLORE, PREDICT, AND ALERT**
  Harness predictive analytics, machine learning, alerts, and notifications to improve insights.

- **CATALYZE DECISIONS AND IMPACT**
  Refresh with the latest data in popular BI tools for sharing with decision makers.
INTEGRATION & INTEROPERABILITY

BAO Analytics Platform

1. Ingest data using our preset connectors
2. Prepare and align data using a common data reference table
3. Enrich analyses with our BAO Public Dataset Library
4. Apply ML tools and algorithms
5. Evaluate insights and maximize impact
Discussion: Implementer’s Perspective on Health Data Management during the Pandemic

Nathan Barthel
Senior Manager, ICT4D Business Development & Program Design
Catholic Relief Services
Health Data Management – Covid-19

CRS Perspective

Nathan Barthel, Catholic Relief Services
Adapting Processes to Support for Social Distancing

- March/April LLIN Mass Campaign
- Use of MAXAR data to track household registration and delivery of nets
- Pivot from distribution point-based distribution to house to house
- Future campaigns to conduct single phased distribution
Leveraging Program Data to Support COVID-19 Response

- Some of our programs that we’ve supported have generated very rich data sets.
- Household location, demographics, and in some cases even phone numbers.
- This data could be used to support other activities with a country including COVID-19 response.
- Needs to be led by government.
Thank you!
CALL FOR GOOD PRACTICE in

User-Centered Design for Digital Covid-19 Response

Following our previous webinar, we’re collecting good practice examples of user-driven or human-centric design of digital tools supporting Covid-19 response for a publication by the ICT4D Conference.

Interested in sharing your work?
Please email info@ict4dconference.org