Digital Square Webinar: Global Good COVID-19 Adaptations Part II (DHIS2 and mHero)

October 7, 2020

Agenda

- Welcome and Opening - Bianca Poll (5 min)
- DHIS2 - Zeferino Saugene (20 min)
- mHero - Caitlin Loehr (20 min)
- Questions & Closing (15 min)

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Zeferino Saugene
(Saudigitus/HISP Mozambique)

DHIS2 COVID-19 Package Adoption

Experiences from the Lusophone Africa Countries

Zeferino Saugene
Saudigitus (HISP Mozambique)

Outline

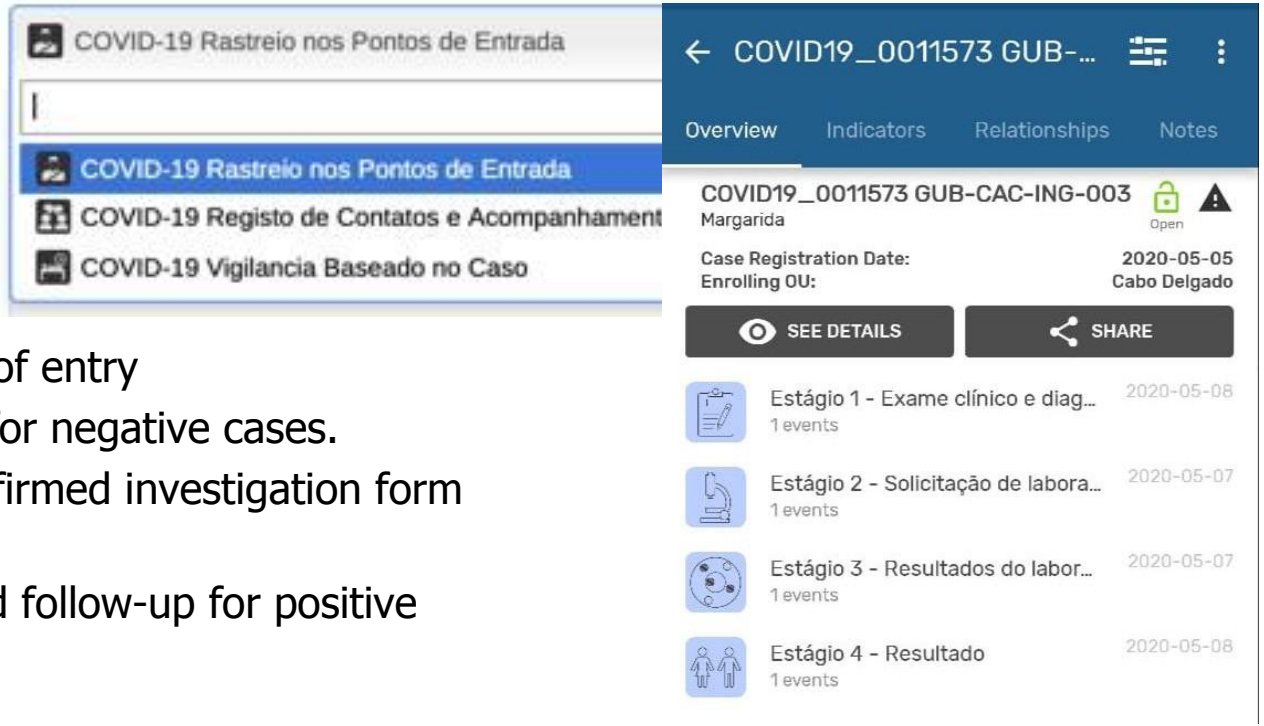
- Introduction
- DHIS2 COVID-19 Package
- Extensions and Developments
- Local Innovations
- Concluding Remarks

Introduction

- The DHIS2 COVID-19 Package
  - Is a digital data tool that allows the registration of suspected cases and their contacts, as well as the active surveillance of patients.
  - Developed using case-based disease surveillance standards and WHO guidelines on COVID-19.
  - Provided by the University of Oslo, its technical partner in the implementation of DHIS2.
  - Adopted by the five Lusophone Africa Countries (Angola, Cape Verde, Guinea-Bissau, Mozambique and Sao Tome Principe)
  - Some more successful than others

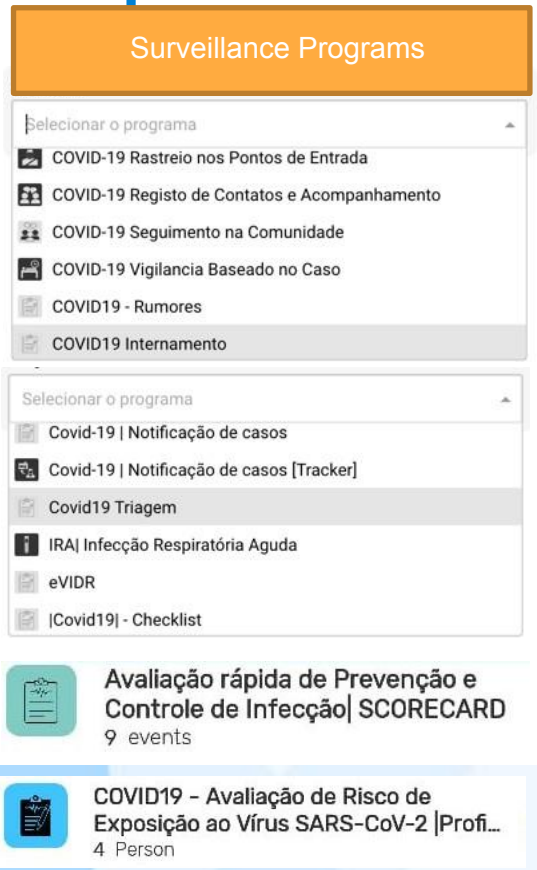
DHIS2 COVID19-Package Adoption

- The adopted package was mainly used for:
  - Screening at point of entry
  - Health quarantine for negative cases.
  - Suspected and confirmed investigation form
  - Laboratory testing
  - Health isolation and follow-up for positive cases.



DHIS2 COVID19-Package: Extension & development

- The package was extended to cover areas, such as:
  - Hotline information (Call Center)
  - Inpatient case management
  - Positive case tracking
  - Health Facility Assessment (Checklist)
  - Infection Prevention and Control (IPC) for COVID-19 Assessment;
  - Assessment of risk factors for coronavirus disease 2019 (COVID-19) in health workers

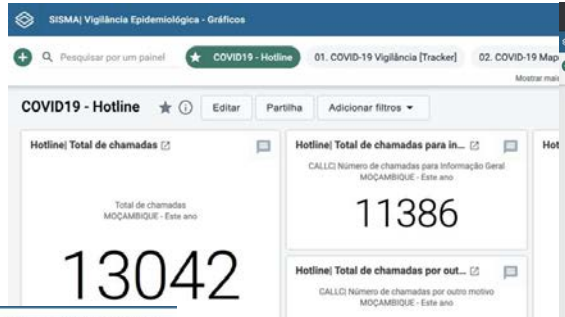


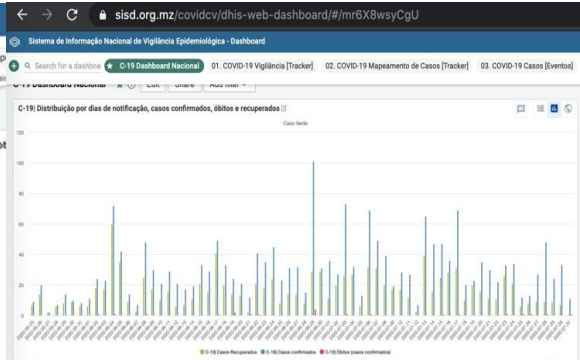
Individual level Data and Aggregated level Data

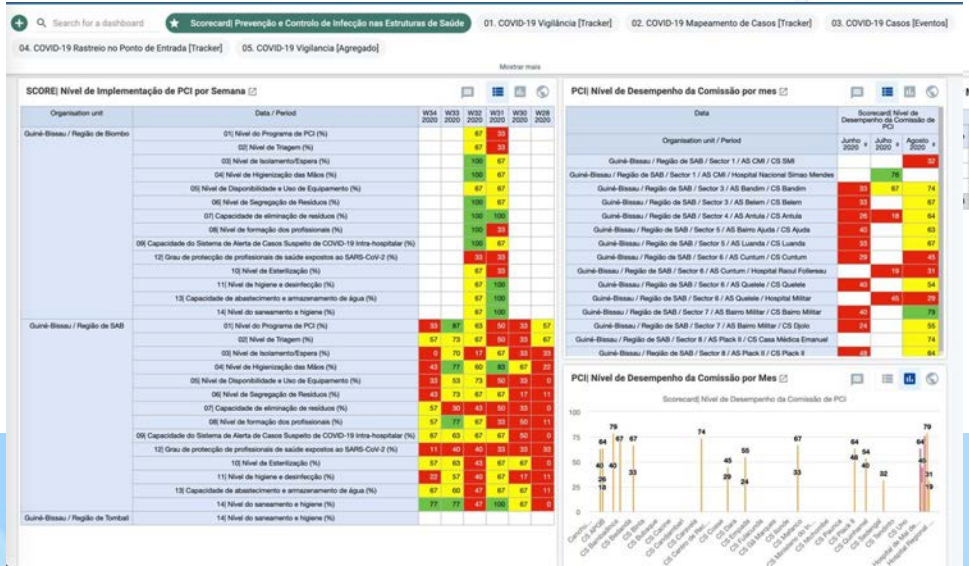
- PCs were used (web app)
  - National level,
  - Regions
  - Provinces
  - Districts
- Tablets and mobile devices were used (Android app):
  - Regions
  - Provinces
  - Districts
  - Facilities
  - Points of Entry

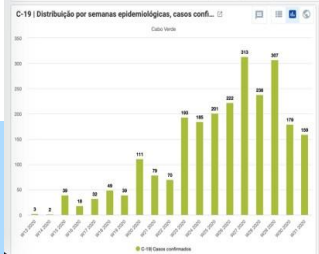
Data Democratization: Dashboard with real time data

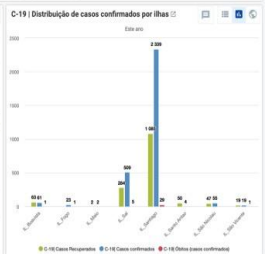
- Dashboards providing information to support decision-making process.







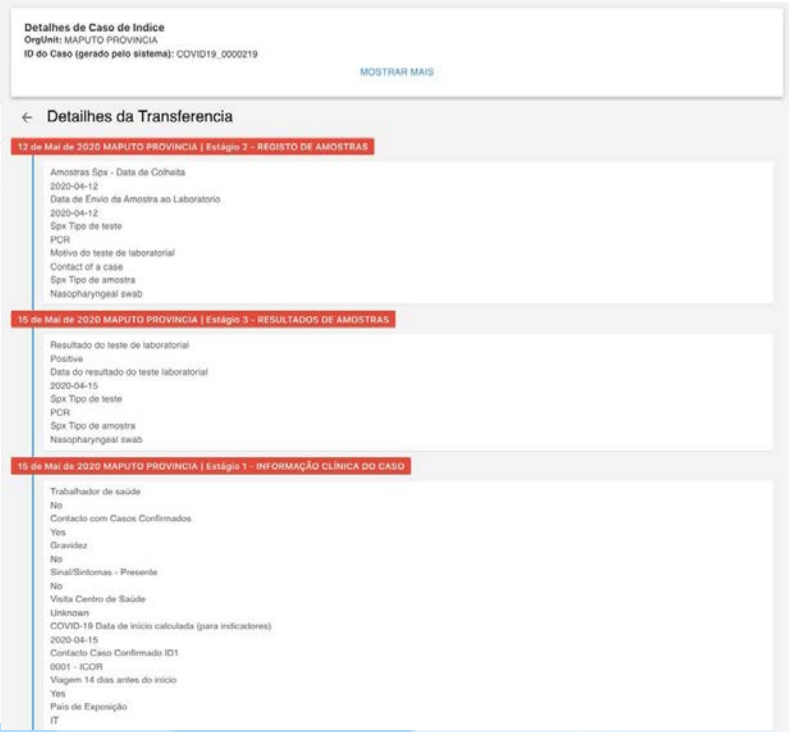




Data Democratization: Statistics sharing with the public

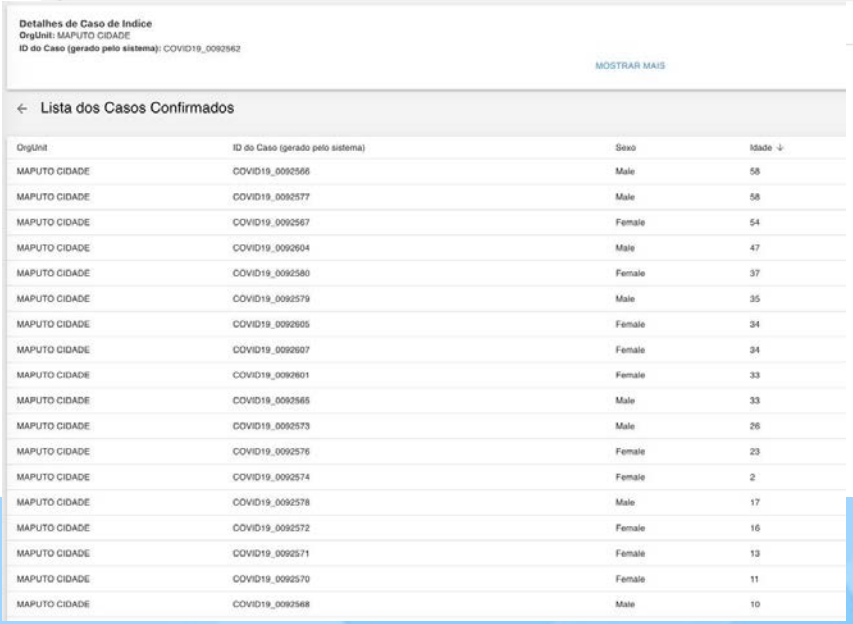
- Web portals developed and linked with DHIS2;
- Routinely data was extracted from DHIS2 COVID19 database and send to the web for public consumption

Local Innovations: Case Tracing App



- Based on referral model from DHIS2 Tracker we produced this case tracing app;
- Detailed information for each infected person is provided and liked to each orgunit providing services;

Local Innovations: Contact Tracing App



- Using the DHIS2 Tracker relationship model we produced this contact tracing app;
- The app provide detailed contact tracing list is provided for each infected person

Local Innovations: Traveller App (Entry Points App)

Traveller

The traveler:
Access and fill-out a online form through a QR Code or link

Traveler app:
Beneficiary view

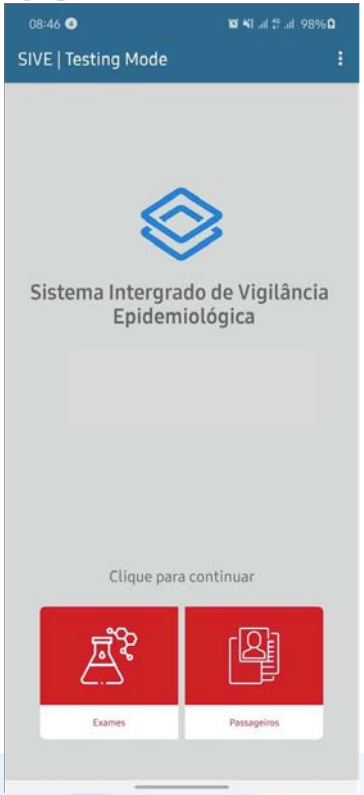
The traveler:
Provides the confirmation code or show the QR code

Health worker

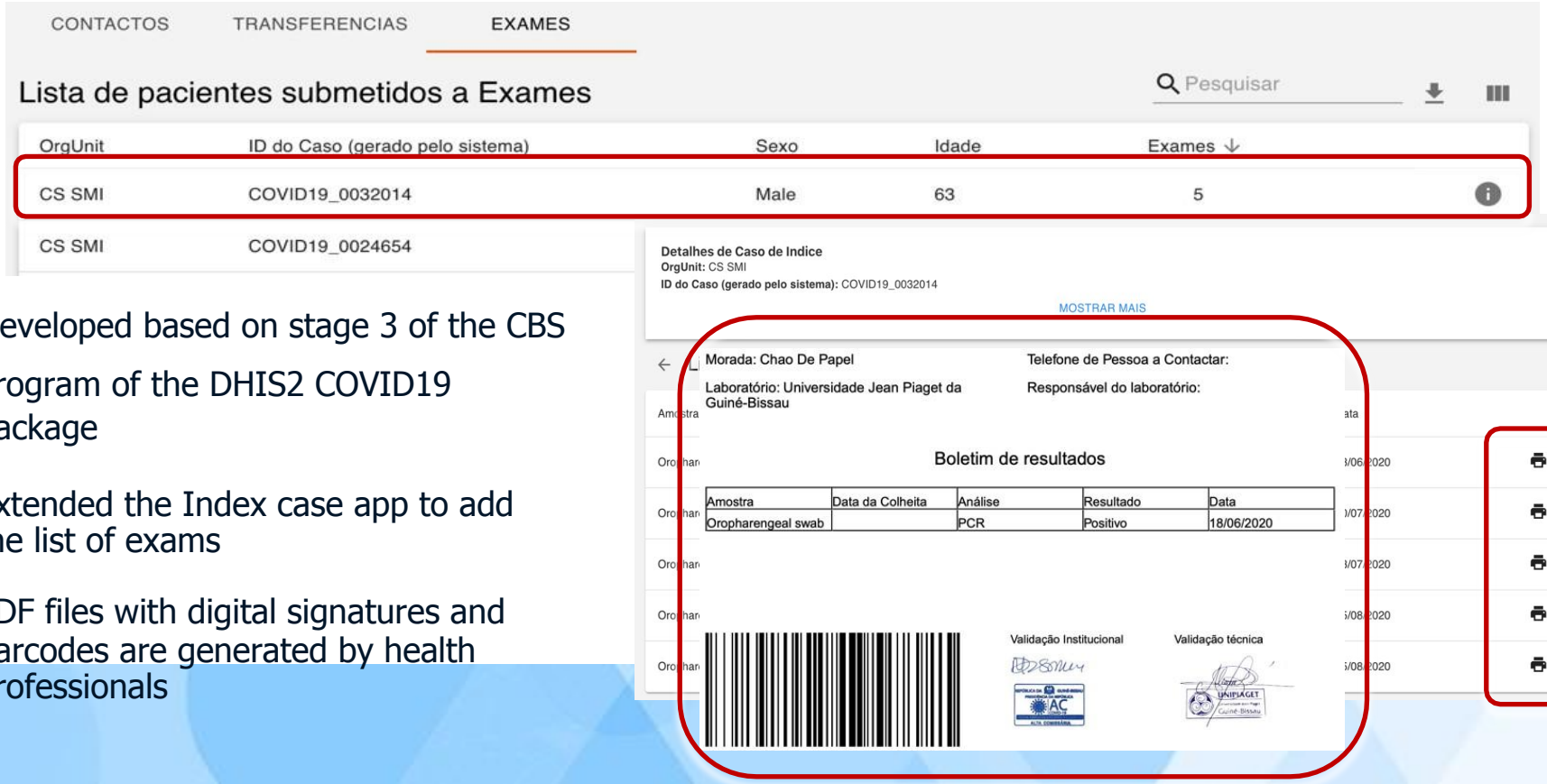
The Health Worker:
Based on the validation code, validates and fills in additional data

National Surveillance System

- Faster the data registration at POE by sharing the responsibility with the travelers



Local Innovations: Lab result printing app



- Developed based on stage 3 of the CBS program of the DHIS2 COVID19 package
- Extended the Index case app to add the list of exams
- PDF files with digital signatures and barcodes are generated by health professionals

Local Innovations: Lab request and result validation

Traveler:
Access and fill-out a form on the Portal

Client/Consumer

Exam result

National Surveillance System

Health worker

Migration Officer

- Easy access to lab result;
- Allow validation of lab results, and reduce falsification

Concluding Remarks

- Main challenges:
  - Engaging with stakeholders
  - User Training
  - Connectivity

- Strategies/success factors
  - Partnerships
  - Engaging with new stakeholders
  - Local innovations
  - Community of Practice

Q&A

Thanks

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Caitlin Loehr

IntraHealth INTERNATIONAL
Because Health Workers Save Lives.

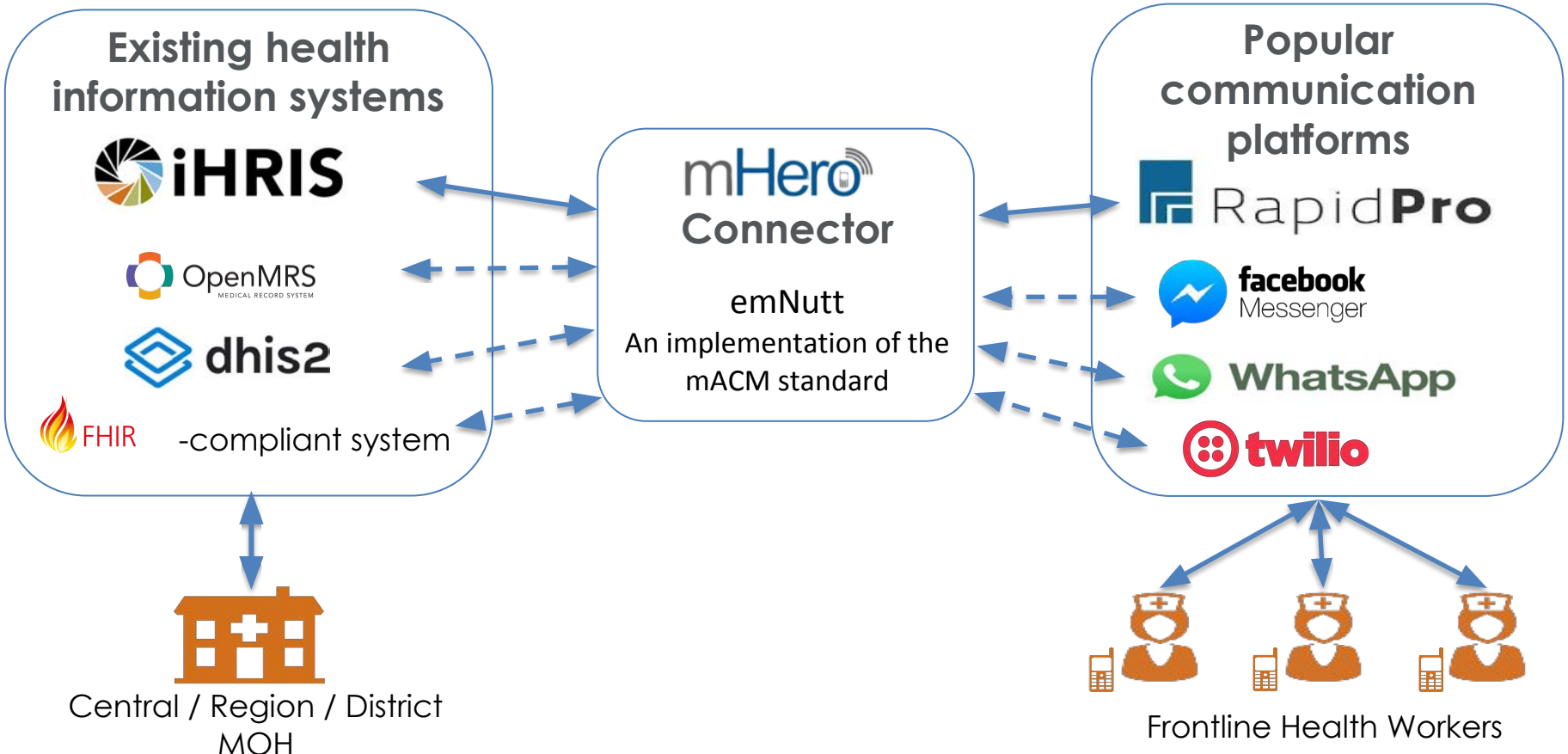
Strengthening National Health Workforce Communication for COVID-19 Response

mHero

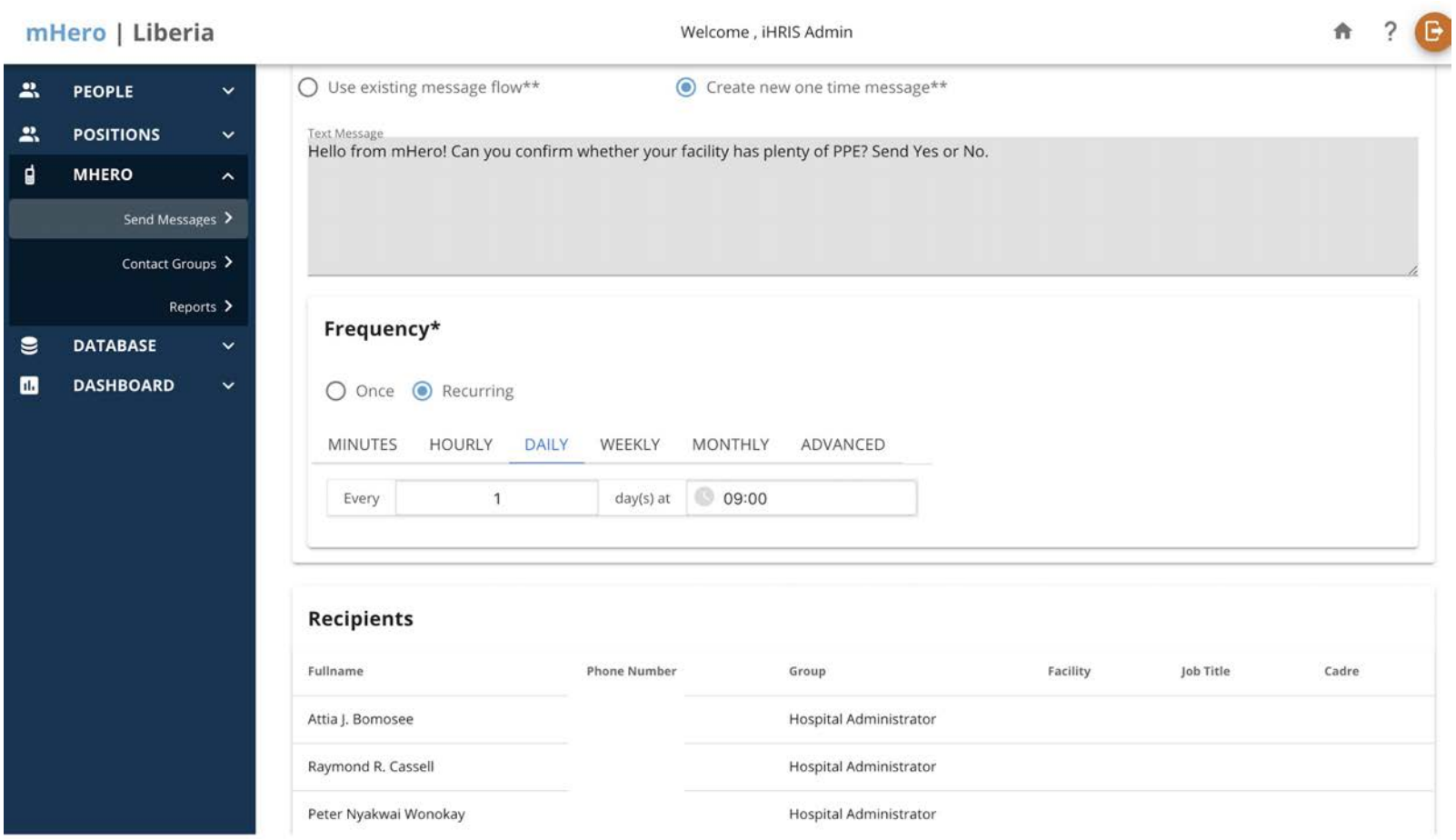
What is mHero?

- **Connects** health workers to their support at all levels of the health system
- **Communicates** information about on-the-ground needs in real time
- **Adapts** to health information system infrastructure and dynamic needs
- **Strengthens** health systems before, during, and after a crisis

How does mHero work?



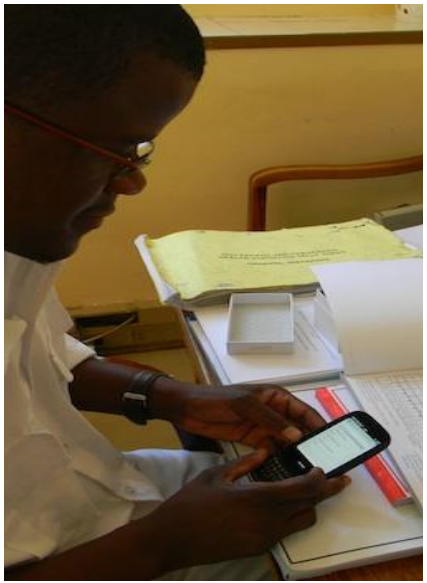
Updated mHero interface



mHero for COVID-19 response

UNICEF - Uganda

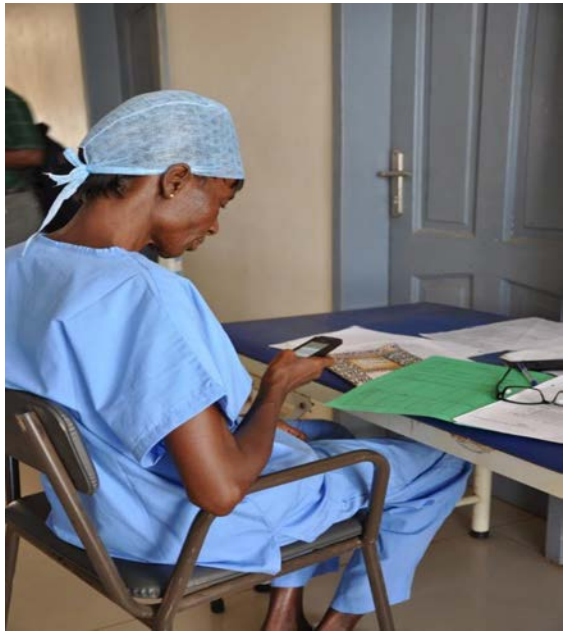
- Syncing between community health worker registry and FamilyConnect
- Over 27,000 village health team members



Liberia MOH

- COVID information
- COVID Digital Classroom (with quizzes)
- Disease surveillance (eIDSR)

mHero for COVID response



Kenya HRH Mechanism

- Reinforcing training (IPC, occupational safety and health, home-based isolation care, risk communication, stigma & psychosocial support, case management)
- More than 556,000 messages sent to 19,000 health workers

DRC

- Daily check on the health of health workers
- 19,000 health workers in Kinshasa

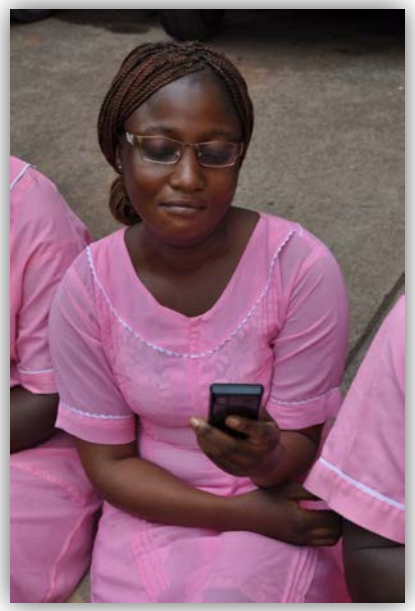
Resources Needed

Software
- Database of contact information (valid & accurate)
- mHero Connector
- Communication platform

Hardware
- Computers
- Server or cloud hosting
- Mobile phones (for recipients)

Connectivity
- Short code for SMS
- Network coverage

Roles
- Configuration and deployment
- Coordination of stakeholders
- Content development & approval
- Dedicated response team



More at:

mHero.org

Contact us:

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Because Health Workers Save Lives.

Thank you!

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