Zanmi Lasante Technology

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General

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Technology

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1. General Overview

Project Name

Zanmi Lasante Technology

Organisation

N/A

Project country

Haiti

Geographic scope

Central Plateau and Lower Artibonite Departments

Overview of the digital health implementation

Zanmi Lasante (ZL) is PIH's partner organization in Haiti. Our EMR uses the OpenMRS platform at Tertiary, Secondary, and Primary care facilities. Point-of-care use across the hospital, designed to support primary care and inpatient usage and a growing number of clinical programs. Key stakeholders of this system include the Outpatient Clinic, NCD, Mental Health, Oncology, and MCH (J9) programs, Emergency, Radiology, and hospital-wide services (ie. appointment scheduling and identification. OpenBoxes is our supply chain and logistics software, which links to our finance and purchasing systems -- used for tracking international shipments, receiving confirmation, inventory management and adjustments, creating and tracking outgoing shipments from our central warehouse to health facilities, and tracking requests from facilities. The system provides data visibility that helps us plan orders and the distribution of medications, consumables, and equipment. CommCare is used for household data and Linkage to Care.

Contact name

N/A

Contact email

N/A

Team members

N/A

Viewers

N/A

2. Implementation Overview

Software and related Digital Health Interventions (DHI)

- **Software**

  Commcare

  Digital Health Intervention

  - 2.1.2 Enroll client for health services/clinical care plan

- 2.2.2 Manage client's structured clinical records
- 2.2.4 Routine health indicator data collection and management
- 2.3.2 Provide checklist according to protocol
- 2.3.1 Provide prompts and alerts based according to protocol
- 2.6.2 Manage referrals between points of service within health sector
- 2.6.3 Manage referrals between health and other sectors (social services, police, justice, economic support schemes)

- **Software**

  OpenMRS

  Digital Health Intervention

  - 4.2.2 Merge, de-duplicate and curate coded datasets or terminologies
  - 4.2.3 Classify disease codes
  - 4.1.1 Non routine data collection and management
  - 4.1.2 Data storage and aggregation
  - 4.1.3 Data synthesis and visualizations
  - 2.2.1 Longitudinal tracking of client's health status and services received
  - 2.2.2 Manage client's structured clinical records
  - 2.2.3 Manage client's unstructured clinical records (e.g. notes, images, documents)
  - 2.2.4 Routine health indicator data collection and management
  - 2.1.1 Verify client unique identity
  - 2.1.2 Enroll client for health services/clinical care plan
  - 2.10.1 Transmit client diagnostic result to healthcare provider
  - 2.10.2 Transmit and track diagnostic orders
  - 2.10.3 Capture diagnostic results from digital devices
  - 2.10.4 Track biological specimens
  - 2.7.1 Schedule client appointments based on clinical care plan
  - 2.7.2 Schedule healthcare provider's activities
  - 2.9.1 Transmit or track prescription orders
  - 2.6.3 Manage referrals between health and other sectors (social services, police, justice, economic support schemes)
  - 2.4.3 Transmission of medical data (e.g. images, notes, and videos) to healtcare provider
  - 2.3.1 Provide prompts and alerts based according to protocol
  - 4.3.3 Map location of clients and households
  - 4.4.1 Data exchange across systems

- **Software**

  OpenBoxes

  Digital Health Intervention

  - 3.2.1 Manage inventory and distribution of health commodities
  - 3.2.2 Notify stock levels of health commodities
  - 3.2.5 Manage procurement of commodities

Health focus area(s)

- Birth events
- Death events
- Other civil registration and vital statistics
- Registration of clients and demographic information
- Emergency Medical Services
- Immunizations
- COVID-19
- Birth preparedness
- Intrapartum care (labor and delivery)
- Maternal Vaccination / Immunization
- Postpartum care
- Pregnancy/antenatal care
- Postnatal/newborn care
- Alcohol use
- Cancer
- Cardiovascular disease
- Diabetes
- Hypertension
- Other non-communicable diseases
- Tobacco use
- Diseases of the nervous system (e.g. epilepsy, cerebral palsy)
- Contraception/family planning
- HIV/AIDS
- Zika
- Emotional violence
- Mental health

Health System Challenges (HSC)

- 1.3 Lack of quality/reliable data
- 1.5 Lack of access to information or data
- 1.6 Insufficient utilization of data and information
- 1.7 Lack of unique identifiers
- 3.5 Insufficient continuity of care
- 5.2 Geographic inaccessibility
- 5.3 Low adherence to treatments
- 5.4 Loss to follow-up
- 6.1 Inadequate workflow management

Health Information System (HIS)

- E. Clinical terminology and classifications
- G. Data interchange interoperability and accessibility
- H. Electronic Medical Record
- R. Laboratory and Diagnostic System
- T. Logistics Management Information System
- V. Public health and disease surveillance
- W. Research information system

Has the government financially invested in the project?

No, they have not yet contributed

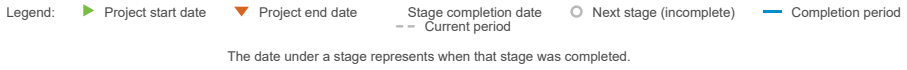
Implementing partner(s)

- OpenMRS community
- OpenBoxes community

Investor(s)

- CDC Foundation
- COVID-19
- PEPFAR

Completion of Project stages



The date under a stage represents when that stage was completed.

3. Techonology overview

Technology deployment date

01/02/2012

Under what license is the project governed

- Non protective free and open source software (e.g. Apache)

Code documentation or download link

https://github.com/PIH/openmrs-module-mirebalais

Link to the application

https://humdemo.pih-emr.org/mirebalais

Link to wiki or project website

https://wiki.openmrs.org/display/RES/University+Hospital+of+Mirebalais+%28UHM%29+EMR+Case+Study

4. Interoperability & standards

What other system do you interoperate with ?

- N/A

What data standards does your digital health project use?

- CIEL
- DICOM
- HL7 FHIR
- HL7 v2
- ICD-10
- JSON
- LOINC
- RxNORM
- SNOMED

COVID-19 custom fields

What type of solution is it (Select all that apply)?

- Software

Provide link for documentation for more information

N/A

Which is the best usage area for your solution?

- Diagnosis and Diagnostics
- Managing contacts to the health system
- Treatment
- Recovery and re-establishment
- Management of adverse effects of COVID-19 measures (e.g. mental health)
- Logistics and Supply Chain
- Surveillance and Modelling
- Visualization and Analytics