

# Field Notes - Projects we are hearing about

This is a place to capture implementation notes concerning the projects that the OpenHIE and DUC Communities are hearing about. The information is captured based upon the information that was understood at the time of capture. We know it is not perfect, but the intent is to help provide an idea of what is going on in the field. We welcome your additions/ changes / updates. You must be logged into add to or update the log and revisions are being tracked. The projects may be sorted by clicking on the column headings.

| COUNTRY<br>(where is the implementation happening)                                                                                 | PROJECT NAME                              | USE CASE / GOALS (What is the project trying to accomplish)                                                                                                                                                                                                                                                            | SCALE                          | STATUS       | PROJECT ORGANIZATIONS (who is involved)                   | Last Updated (Date or reference to where this project was mentioned) | NOTES and additional details. (May include Data Exchanges, technologies and other details)                                                     |
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| Gambia                                                                                                                             | OpenMIS Implementation                    |                                                                                                                                                                                                                                                                                                                        |                                |              | GIZ                                                       | <a href="#">2024-04-03 OHIN Call</a>                                 |                                                                                                                                                |
| Tanzania                                                                                                                           | OpenMIS Implementation                    |                                                                                                                                                                                                                                                                                                                        |                                |              | GIZ                                                       | <a href="#">2024-04-03 OHIN Call</a>                                 | OpenMIS linked with the payment system and medical report systems. Also linkage with DHIS2 and dashboards.                                     |
| Cameroon                                                                                                                           | OpenMIS implementation                    | Community-based micro UHC                                                                                                                                                                                                                                                                                              | 95 facilities piloting OpenMIS | Piloting     | GIZ, SwissTPH, others                                     | <a href="#">2024-04-03 OHIN Call</a>                                 | OpenMIS linked to EMRs.                                                                                                                        |
| Botswana                                                                                                                           | HIE                                       |                                                                                                                                                                                                                                                                                                                        |                                | Implemented  |                                                           | <a href="#">2024-03-27 Patient ID Mgmt Collaborative Session</a>     | Components include a <b>TERMINOLOGY SERVICE</b> (OCL), Have a <b>CLIENT REGISTRY</b> (OpenCR),r <b>INTEROPERABILITY LAYER</b> . Have (OpenHIM) |
| Botswana                                                                                                                           | Patient Identity Managemnt                | Identify patients across facilities                                                                                                                                                                                                                                                                                    |                                | Implementing |                                                           | <a href="#">2024-03-27 Patient ID Mgmt Collaborative Session</a>     | Using multiple IDs in a <b>CLIENT REGISTRY</b> (OpenCR) and working through national registries to identify a patient.                         |
| Multiple (Central America and the Dominican Republic)                                                                              | Cross-Border Epidemiological Surveillance | Cross-border epi surveillance to support migration across countries.                                                                                                                                                                                                                                                   |                                | Initiative   | SICA / COMISCA, Ministries of Health, Government of Korea | <a href="#">2023-08-03 OHIN Call</a>                                 | Challenges include governance, human interoperability and diversity of systems across the countries.                                           |
| Multiple (Argentina, Belize, Chile, Colombia, Ecuador, El Salvador, Guatemala, Honduras, Panama, Paraguay, Peru, Surinam, Uruguay) | LACPass                                   | Training people in standards (HL7 / FHIR)<br><br>Two conectathon to to test the cross-border interoperability for vaccine certificates and the IPS.                                                                                                                                                                    |                                |              | IDB, Ministries of Health, PAHO, CENS                     | <a href="#">2023-08-03 OHIN Call</a>                                 | Adopted and adopting SNOMED CT and HL7 FHIR                                                                                                    |
| Brazil                                                                                                                             | DataSUS                                   | Created a national repository of health data for the MOH. They have a platform of services that allows users to consume the data based upon needs. Have data governance. Enables sharing of information about vaccines and other data in real time. Also supports surveillance from both public and private providers. | <b>NATIONAL</b>                | Production   | Ministry of Health                                        | <a href="#">2023-08-03 OHIN Call</a>                                 | Use of OpenSource technologies and standards.                                                                                                  |
| Argentina                                                                                                                          |                                           | Terminology and alignment on data standards. The health system is fragmented with both private and national providers. Created definitions and promoted national terminology and standards across both the public and private sector.                                                                                  | <b>NATIONAL</b>                | Production   | Ministry of Health of the Nation, healthcare providers    | <a href="#">2023-08-03 OHIN Call</a>                                 | . SNOMED CT                                                                                                                                    |

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| Uruguay    | National EHR                                            | National architecture for federated systems. Includes private sector and other health organizations.                                                                                                                                                                                                                                                        |       |                                                                                                                                                                                                                                                               | AGESIC / Salud.Uy, Ministry of Health, healthcare providers | <a href="#">2023-08-03 OHIN Call</a>                             | INTEROPERABILITY LAYER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Costa Rica | (EDUS) Unique Digital Health Records                    | 2016-2018 worked on capturing electronic records in hospitals and deployment of apps to support patient access to appointments, vaccine certificates and medical records. This helped solve the data collection layer.                                                                                                                                      |       |                                                                                                                                                                                                                                                               | Costa Rican Social Security                                 | <a href="#">2023-08-03 OHIN Call</a>                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Zimbabwe   | Patient Identity Project using a deduplication process. | A national identifier is not used for health. There is an id number generated by the system and given to the patient. The ministry would like to be able to connect all of the facilities together. One challenge is that many patients are nomadic. Use Cases: Continuity of care and Public health management.                                            |       | Currently have "online" facilities that can push data to the central repository in real time. Approximately have progressed to have 20% online. Also have "offline" facilities that share data, but not in realtime. Currently most facilities are "offline." | Zim-TTech, I-Tech, Vital Wave, and Ministry of Health       | <a href="#">2023-07-26 Patient ID Mgmt Collaborative Session</a> | EMRs connect to a central repository through an<br>INTEROPERABILITY LAYER<br>. Have<br>CLIENT REGISTRY<br>TERMINOLOGY SERVICE<br>(OCL) and a SHR. Using biometrics (fingerprints and iris)<br><br>For matching the team is using a probabilistic algorithm and using multiple mixture of attributes with different weighting.                                                                                                                                                                                                                         |
| Rwanda     | Rwanda Health Information Exchange                      | One citizen, one request.<br>Had solutions based upon TB, HIV, Malaria and the solutions were diverse and Rwanda is looking a ways to take a patient viewpoint and ensuring that the data is connected.<br><br>The shared health record is updated on a regular basis to ensure that the patient's comprehensive information is available to other systems. |       | Pilot stage for connecting EMRs<br><br>Have onboarded 65 health facilities                                                                                                                                                                                    |                                                             | <a href="#">2023-07-20 Facility Registry Call</a>                | - Have documented the interoperability standards that they are planning to use for imaging and other standards.<br>- Using OpenHIM for the<br>INTEROPERABILITY LAYER<br>.<br>- Using a<br>CLIENT REGISTRY<br>and all of the EMRs are connected to the interoperability layer.<br>- Using a<br>FACILITY REGISTRY<br>to align on facility name. Planning for all of the systems to use the facility registry to align on names.<br><br>- also using a shared health record<br><br>- have a<br>TERMINOLOGY SERVICE<br>- have a<br>HEALTH WORKER REGISTRY |
| Kenya      | SMART Guidelines standalone app                         |                                                                                                                                                                                                                                                                                                                                                             | Pilot |                                                                                                                                                                                                                                                               | Intellisoft, CDC, Google                                    | <a href="#">OHIE23 E2 Unconference Session</a>                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Uganda     | Lab and Hospital system integration                     | Need to use OpenHIM for integrating lab systems                                                                                                                                                                                                                                                                                                             |       | 3 hospital management systems are being connected                                                                                                                                                                                                             | MOH                                                         | <a href="#">OpenHIE23</a>                                        | Using OpenHIM ( INTEROPERABILITY LAYER ) to connect with Lab systems and had to integrate the the sample tracking component that links the data to a central lab where people can log in and get their results                                                                                                                                                                                                                                                                                                                                        |

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| Indonesia   | CHISU                                                              | OpenHIM as a generic FHIR converter                                                                                                                                                                                                       |                                                                                                                                                                  |                                                                     | USAID, Jembi,                                                                                                                | <a href="#">OpenHIE23</a>                                        | Created an OpenHIM mediator ( <b>INTEROPERABILITY LAYER</b> )                                                                                                                                                                                                                                                                                                                                       |
| Malawi      | IHRIS / Health Worker Registry                                     |                                                                                                                                                                                                                                           |                                                                                                                                                                  | In Progress                                                         | MOH                                                                                                                          | <a href="#">OpenHIE23</a>                                        |                                                                                                                                                                                                                                                                                                                                                                                                     |
| Malawi      | PMCT / Product Catalog <b>PRODUCT CATALOG</b>                      |                                                                                                                                                                                                                                           |                                                                                                                                                                  | In Progress                                                         | MOH                                                                                                                          | <a href="#">OpenHIE23</a>                                        | Capture trade items and use GS1 standards.                                                                                                                                                                                                                                                                                                                                                          |
| Malawi      | <b>TERMINOLOGY SERVICE</b>                                         | Putting terminology into the system and used for mapping between DHIS2 and OpenIMIS                                                                                                                                                       |                                                                                                                                                                  |                                                                     | MOH                                                                                                                          | <a href="#">OpenHIE23</a>                                        |                                                                                                                                                                                                                                                                                                                                                                                                     |
| Malawi      | Health <b>FACILITY REGISTRY</b>                                    |                                                                                                                                                                                                                                           |                                                                                                                                                                  | Implemented                                                         | MOH                                                                                                                          |                                                                  | Presented at OHIE23<br>Includes facility details<br>Used in the integration with other systems to map facilities                                                                                                                                                                                                                                                                                    |
| Ethiopia    | National ID                                                        | Patient identity using biometrics                                                                                                                                                                                                         | National                                                                                                                                                         | Starting                                                            | Mekelle University, MOH, Gondar                                                                                              | <a href="#">2023-05-01 (OHIE23 Day 1)</a>                        | Uses eCHIS and Simprint                                                                                                                                                                                                                                                                                                                                                                             |
| Nigeria     | National Biometrics Collaborative                                  | Capture Fingerprints to assist with patient identity                                                                                                                                                                                      | HIV program 85% of patients are captured                                                                                                                         |                                                                     | PHIS3                                                                                                                        | <a href="#">2023-04-26 Patient ID Mgmt Collaborative Session</a> | Working on FHIR support for APIs. Also have experience sharing data with DHIS2, EMRs and Labs.                                                                                                                                                                                                                                                                                                      |
| Nigeria     | National Concept dictionary                                        |                                                                                                                                                                                                                                           |                                                                                                                                                                  | Starting                                                            |                                                                                                                              | <a href="#">2023-04-07 Terminology Service Call</a>              |                                                                                                                                                                                                                                                                                                                                                                                                     |
| Philippines | <a href="#">eHealth Strategy Philippines</a>                       | Blueprint / Architecture                                                                                                                                                                                                                  | <b>NATIONAL</b>                                                                                                                                                  | Published                                                           | Ministry of Health                                                                                                           | <a href="#">2023-03-29 OHIN Call</a>                             |                                                                                                                                                                                                                                                                                                                                                                                                     |
| Tanzania    | <a href="#">Tanzania Blueprint</a>                                 | Blueprint / Architecture                                                                                                                                                                                                                  | <b>NATIONAL</b>                                                                                                                                                  | Published                                                           | Ministry of Health                                                                                                           | <a href="#">2023-03-29 OHIN Call</a>                             |                                                                                                                                                                                                                                                                                                                                                                                                     |
| Sri Lanka   | <a href="#">Sri Lanka Digital Health Blueprint (V1.0b)</a>         | Blueprint / Architecture                                                                                                                                                                                                                  | <b>NATIONAL</b>                                                                                                                                                  | Published                                                           | Ministry of Health                                                                                                           | <a href="#">2023-03-29 OHIN Call</a>                             |                                                                                                                                                                                                                                                                                                                                                                                                     |
| Malawi      | Master Patient Index (DDE) Patient Matching <b>CLIENT REGISTRY</b> | For case reporting from a central repository                                                                                                                                                                                              | around 170 sites                                                                                                                                                 |                                                                     | Ministry of Health EGPAF                                                                                                     | <a href="#">2023-03-29 Patient ID Mgmt Collaborative Session</a> | <ul style="list-style-type: none"> <li>DDE is built on top of Ruby on Rails.</li> <li>FHIR standards.</li> <li>Offline first architecture.</li> <li>Produces a pre-generated non-identifiable patient ID for every client. These IDs are physically printed as barcodes and placed as stickers on the patient's Health Passport.</li> <li>Currently 6 million unique clients registered.</li> </ul> |
| Haiti       | Haiti Master Patient Index (Client Registry)                       | Lost to follow up<br>patient transfer<br>labs<br><br>Uses patient look up to avoid duplication of patients                                                                                                                                | <b>PILOT</b><br><br>The initial scale for the pilot is for a specific EMR to a central repository. Aligning terminologies to move toward support for other EMRs. | Pilot (two sites to start and learn about infrastructure and needs) | DIGI                                                                                                                         | <a href="#">2023-03-29 Patient ID Mgmt Collaborative Session</a> | <ul style="list-style-type: none"> <li>Using FHIR standards including PIXm and PDQm</li> <li>Integrates with a fingerprint registry</li> <li>focus on integration between an EMR (Esante Plus, an OMRS Haiti implementation) and a client registry</li> </ul>                                                                                                                                       |
| Mozambique  | interoperability solution                                          | interoperability solution between the national Civil Registration and Vital Statistics electronic system (eSIRCEV) and the Vital Events Community Surveillance system (SIS-COVE) of the National Institute of Health (INS) of Mozambique. |                                                                                                                                                                  | Implementing                                                        | The Ministry of Justice, Constitutional and Religious Affairs of Mozambique with technical support from the Jembi Mozambique | <a href="#">2023/03 Jembi Mozambique Newsletter #7/2023</a>      |                                                                                                                                                                                                                                                                                                                                                                                                     |

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| Uganda                           | Differentiated Service Delivery Models in UgandaEMR to Decongest Facilities (EMR for DSDM) | Need to better understand the number of people being served by a facility and treat in the community where possible.                                                                                                                                                   | 60+ pharmacies<br>42K patients / 60 facilities                         | Implementing | Ministry of Health, Makerere University School of Public Health, CDC, Monitoring and Evaluation Technical Support (METS) Program, University of California San Francisco | <a href="#">2023-03-09 Treatment Continuity (DUC Meeting)</a>                                                                                                   | OpenHIM, FHIR<br><br>Data is also synchronized from the Mobile to the EMR and there is another use case where data is synced with the central repository |
| Malawi                           | Community-based ART Retention and Suppression (CARES) App                                  | Community EMR app to collect the same data as the EMR on community visits                                                                                                                                                                                              |                                                                        | Testing      | Lighthouse Trust, I-Tech Malawi, Comcare                                                                                                                                 | <a href="#">2023-03-09 Treatment Continuity (DUC Meeting)</a>                                                                                                   | Comcare application with ability to send and receive data from the EMR<br><br>Planning to add hypertension model in the future.                          |
| Lao People's Democratic Republic | GeoPrism Registry                                                                          | Interlinking systems (like OpenHIE registries) by common geographies for the correct periods of time.<br><div>HEALTH WORKER REGISTRY</div> <div>FACILITY REGISTRY</div><br>GeoPrism Registry uses the GeoPrism spatial knowledge graph dependency management framework | NATIONAL                                                               | Implemented  | TerraFrame, Clinton Health Access Initiative (CHAI), Health GeoLab Hub, Vital Wave                                                                                       | <a href="#">2023-03-23 Facility Registry Call</a> (Presentation - see recording and notes)<br><a href="#">2023-02-24 OHIE Architecture &amp; Standards Call</a> | FHIR, GeoJSON, VectorTiles<br><br>Direct integration with DHIS2 and Reveal.                                                                              |
| Mozambique                       | GeoPrism Registry                                                                          | Interlinking systems (like OpenHIE registries) by common geographies for the correct periods of time.<br><div>HEALTH WORKER REGISTRY</div> <div>FACILITY REGISTRY</div><br>GeoPrism Registry uses the GeoPrism spatial knowledge graph dependency management framework | PILOT                                                                  | Implementing | TerraFrame, Clinton Health Access Initiative (CHAI), Health GeoLab Hub                                                                                                   | <a href="#">2023-02-24 OHIE Architecture &amp; Standards Call</a>                                                                                               | FHIR, GeoJSON, VectorTiles<br><br>Direct integration with DHIS2 and Reveal.                                                                              |
| Sri Lanka                        | Information Exchange                                                                       | Interoperability between HMIS and OpenMRS. Working on implementing FHIR standard                                                                                                                                                                                       | NATIONAL                                                               | Implementing | Ministry of Health                                                                                                                                                       | <a href="#">2023-02-24 OHIE Architecture &amp; Standards Call</a>                                                                                               | HapiFHIR                                                                                                                                                 |
| Kenya                            | The Local Health System Sustainability Project - Cross Border Digital Health Solution      | Patient Identity for reporting                                                                                                                                                                                                                                         | MULTI-NATIONAL<br><div>PILOT</div><br>(scope to rest of EAC countries) | Development  | IntelliSOFT Consulting                                                                                                                                                   | <a href="#">2023-02-24 OHIE Architecture &amp; Standards Call</a>                                                                                               | OpenHIM and EMR<br><br>HapiFHIR SHR<br><br>Standards : FHIR / Client Registry / OCL Terminology Services: CIEL / OCL<br><br>S/W solution: OpenMRS, DHIS2 |
| Uganda                           | The Local Health System Sustainability Project - Cross Border Digital Health Solution      | Tracking patients along the border of Kenya and Uganda. Patient Identity for reporting                                                                                                                                                                                 | MULTI-NATIONAL<br><div>PILOT</div><br>(scope to rest of EAC countries) | Development  | IntelliSOFT Consulting                                                                                                                                                   | <a href="#">2023-02-24 OHIE Architecture &amp; Standards Call</a>                                                                                               | OpenHIM and EMR<br><br>HapiFHIR SHR<br><br>Standards : FHIR / Client Registry / OCL Terminology Services: CIEL / OCL<br><br>S/W solution: OpenMRS, DHIS2 |
| Multiple Countries               | PSI Digital Health consumer interventions                                                  | Consumer app to drive consumers to facilities for interventions (referral app)                                                                                                                                                                                         |                                                                        |              | PSI                                                                                                                                                                      | <a href="#">2023-02-24 OHIE Architecture &amp; Standards Call</a>                                                                                               | RapidPro /WFA>OpenHIM > HapiFHIR > NiFi > Postgres > Superset<br><br>OpenHIM/ HapiFHIR/ WA/ SMS /FBM/ Superset/ PBI                                      |
| Multiple Countries               | Training / Capacity Building                                                               | OHIE Certificate reimbursement program - OHIE session in AeHIN General Meeting (Indonesia Oct 2023)                                                                                                                                                                    |                                                                        | Planning     | AeHIN                                                                                                                                                                    | <a href="#">2023-02-24 OHIE Architecture &amp; Standards Call</a>                                                                                               |                                                                                                                                                          |

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| Philippines              | Training / Capacity Building                           | promote OHIE Academy as free training for DOH and PHIC staffers, general public - encourage DOH /PHIC to look for OHIE certificate for employments - offer Virtual Instructor-led Training (on <a href="https://academy.ohie.org">academy.ohie.org</a> ) - offer face-to-face training (on <a href="https://academy.ohie.org">academy.ohie.org</a> ) |          |                                    | UP Manila - Standards & Interoperability Lab (UPM-SILab) | <a href="#">2023-02-24 OHIE Architecture &amp; Standards Call</a>                                     | Applying WHO SMART Guidelines for FHIR profiles/IG development (eg, viral hepatitis, liver diseases, etc)<br><br>connectathon among EMR developers using the FHIR profiles with DOH/PHIC/WHO observing |
| Sri Lanka                | Debt2Health                                            | Breaking silos between hospitals. Created a Digital health blueprint and NDC health care and TB EHR                                                                                                                                                                                                                                                  | NATIONAL | Development                        | Global Fund                                              | <a href="#">2023-02-24 OHIE Architecture &amp; Standards Call</a>                                     | CR and other building blocks are being put in place as well as a client portal. Also looking at OCL.                                                                                                   |
|                          |                                                        | OpenMRS based EMR for Primary Healthcare cluster                                                                                                                                                                                                                                                                                                     |          |                                    | Asian Development Bank (ADB)                             | <a href="#">2023-02-24 OHIE Architecture &amp; Standards Call</a>                                     | connectathon among EMR developers using the FHIR profiles with DOH/PHIC/WHO observing                                                                                                                  |
| Multiple Countries       | AeHIN Community of Interoperability Labs (COIL)        | Demonstration of syndicated TS between Region and PH ontoserver (eg, medications)                                                                                                                                                                                                                                                                    |          |                                    |                                                          | <a href="#">2023-02-24 OHIE Architecture &amp; Standards Call</a>                                     | Regional Terminology Server ontoserver (c/o SIL-Thailand) - Regional Terminology Server ontoserver (c/o SIL-Thailand) - National TS ontoserver (c/o UPM-SILab)                                         |
|                          | WSO2 based Interoperability layer OCL                  | TS OpenMRS based cluster EMR Sunbird based PR                                                                                                                                                                                                                                                                                                        |          |                                    |                                                          | <a href="#">2023-02-24 OHIE Architecture &amp; Standards Call</a>                                     |                                                                                                                                                                                                        |
| Ethiopia, Chile, Malawi? | Terminology Service Implementation                     |                                                                                                                                                                                                                                                                                                                                                      | NATIONAL | Maintenance                        | CENS (Chile)                                             | TS Implementer Series: <a href="#">Chile</a>                                                          |                                                                                                                                                                                                        |
| Kenya                    | Terminology Service Implementation                     | National Health Data Dictionary                                                                                                                                                                                                                                                                                                                      | NATIONAL | Early implementation, work ongoing | Palladium University of Nairobi                          |                                                                                                       |                                                                                                                                                                                                        |
| Nigeria                  | OpenMRS 3.X and OCL Terminology Service Implementation |                                                                                                                                                                                                                                                                                                                                                      |          | Started                            | PHIS3                                                    |                                                                                                       |                                                                                                                                                                                                        |
| Sri Lanka                | OCL Terminology Service Implementation                 |                                                                                                                                                                                                                                                                                                                                                      |          | Started                            | MOH Sri Lanka                                            |                                                                                                       |                                                                                                                                                                                                        |
| N/A                      | OpenMRS ANC Reference Implementation                   | OpenMRS is implementing ANC SMART Guidelines to do things like Decision Support                                                                                                                                                                                                                                                                      | PILOT    | Development                        | OpenMRS WHO                                              | <a href="https://www.youtube.com/watch?v=w_wuUoFAp7I">https://www.youtube.com/watch?v=w_wuUoFAp7I</a> |                                                                                                                                                                                                        |