Communities & Projects

> ✅ **Welcome!**
>
> This is the new space for OpenHIE Communities & Projects. This team space is great for sharing knowledge and collaborating on notes or projects within the OpenHIE community. If you have any recommendations or questions regarding this space please visit the OpenHIE help page or reach out to openhie@gmail.com.

Next, you might want to:

- [ ] **Check out the OpenHIE Subcommunities**
- [ ] **Mark your calendar with upcoming OpenHIE Calls**
- [ ] **Suggest a topic on the Community forum: https://discourse.ohie.org/**
- [ ] **Review subcommunity meeting notes from past years: Subcommunity Archived Pages**

Projects

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.
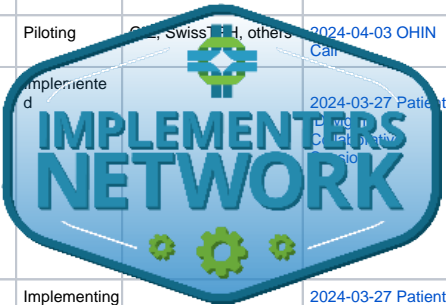
COUNTRY (where is the implementation happening)	PROJECT NAME	USE CASE / GOALS (What is the project trying to accomplish)	SCALE	STATUS	PROJECT ORGANIZATIONS (who is involved)	Last Updated (Date or reference to where this project was mentioned)	NOTES and additional details. (May include Data Exchanges, Technologies and other details)
Gambia	OpenIMIS Implementation				GIZ	2024-04-03 OHIN Call	
Tanzania	OpenIMIS Implementation				GIZ	2024-04-03 OHIN Call	OpenIMIS linked with the payment system and medical report systems. Also linkage with DHIS2 and dashboards.
Cameroon	OpenIMIS implementation	Community-based micro UHC	95 facilities piloting OpenIMIS	Piloting	GIZ, SwissTPH, others	2024-04-03 OHIN Call	OpenIMIS linked to EMRs.
Botswana	HIE			Implemented		2024-03-27 Patient ID Mgmt Collaborative Session	Components include a **TERMINOLOGY SERVICE** (OCL), Have a **CLIENT REGISTRY** (OpenCR),r **INTEROPERABILITY LAYER** . Have (OpenHIM)
Botswana	Patient Identity Managemnt	Identify patients across facilities		Implementing		2024-03-27 Patient ID Mgmt Collaborative Session	Using multiple IDs in a **CLIENT REGISTRY** (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, Goverment of Korea	2023-08-03 OHIN Call	Challenges include governance, human interoperability and diversity of systems across the countries.

Communities of OpenHIE

This space provides information on communities of practice around OpenHIE. All communities encourage openness and collaboration when it comes to sharing knowledge. In addition, this page serves as a resource for community descriptions, call information, community leads, and ongoing common work. Get involved when and where it works for you!

Join us Quarterly at the OpenHIE Implementers Network

The **OpenHIE Implementers Network (OHIN)** is a forum dedicated to bringing together countries and implementers who are working in some of the most challenging environments on the planet to share questions, problems, and ideas so we can work on solutions together.

Meeting info: OpenHIE Implementers Network Call

Communities of Practice

OpenHIE Core Component	Health Information Exchange Topic	Interest Groups

Country / Region	Project	Description	Status	Organizations	Meeting / Call	Standards / Notes
Multiple (Argentina, Belize, Chile, Colombia, Ecuador, El Salvador, Guatemala, Honduras, Panama, Paraguay, Peru, Surinam, Uruguay)	LACPass	Training people in standards (HL7 / FHIR). Two conectathon to to test the cross-border interoperability for vaccine certificates and the IPS.		IDB, Ministries of Health, PAHO, CENS	2023-08-03 OHIN Call	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 survellience from both public and private providers.	NATIONAL	Ministry of Health	2023-08-03 OHIN Call	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.	NATIONAL	Ministry of Health of the Nation, healthcare providers	2023-08-03 OHIN Call	Use of SNOMED CT
Uruguay	National EHR	National architecture for federated systems. Includes private sector and other health organizations.		AGESIC / Salud.uy, Ministry of Health, healthcare providers	2023-08-03 OHIN Call	
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	2023-08-03 OHIN Call	
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.		Zim-TTech, Vital Wave, and Ministry of Health	2023-07-26 Patient ID Mgmt Collaborative Session	Connect to a central repository through guidance. Have resources. Creation of global goods (OCL) and a SHR. Using biometrics (fingerprint and iris) guidance. For matching the team is using a probabilistic algorithm and using multiple mixture of attributes with different weighting.

Architecture & Standards Community

The OpenHIE Architecture & Standards community was created for members of OpenHIE and its Communities to discuss cross-cutting technical issues about how components work with one another and the affect they have on our health information exchange. Link to Architecture Specification.

Community Leads: Jose Costa Teixeira Chris Bell Carl Fourie Shaun Grannis
Meeting info: Architecture Subcommunity Calls

Facility Registry Community

The Facility Registry Community (OHIE-FR) is made up of technologists and implementers supporting health facility registries and master facility lists.

Currently have "online" facilities that can implement a central repository. Approximately have progressed to have an online. Also have "offline" facilities that share data but not in realtime. Currently most facilities are "offline."

Community Leads: Rita Sembajwe Martin Osumba Adam Preston
Meeting Info: Facility Registry Subcommunity Calls

Health Financing towards UHC Community

The Health Financing towards UHC Community (OHIE-UHC) is focused on identifying health care financing data exchange needs, and working synergistically with the OpenHIE community to ensure that data exchange processes and requirements meet the needs of the health care financing communities.

Community Lead: Uwe Wahser Dragos Dobre Saurav Bhattarai
Meeting Info: Health Financing Toward UHC Subcommunity Calls

Lab Information Systems Community

The Lab Information Systems Community (OHIE-LIS) offers a space for knowledge sharing and collaboration around LIS/LIMS and support efforts to standardize systems for better data sharing.

Community Leads: Rufus Nyaga Casey liams-Hauser
Meeting Info: Lab Information System Subcommunity Call

Capacity Strengthening Subcommunity

As countries contemplate their implementation approaches to health data sharing, many are beginning to discern how to strengthen capacity in data exchange and other HIE related topics. This community is focused on working collectively to strengthen capacity to guild and support health information exchange projects through:

- Identification and prioritization of training and capacity strengthening needs
- Identification, sharing and dissemination of existing global goods including guides, training resources
- Creation of global goods

Community Leads: E Shwets
Meeting info: Currently in drafting stages

Badges: INTEROPERABILITY LAYER · INTEROPERABILITY LAYER · CLIENT REGISTRY · TERMINOLOGY SERVICE

Country	Project	Description	Badge	Stage	Organizations	Links / Meeting
Rwanda	Rwanda Health Information Exchange	One citizen, one request. 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. 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. Have onboarded 65 health facilities.		2023-07-20 Facility Registry Call
Kenya	SMART Guidelines standalone app			Pilot	Intellisoft, CDC, Google	OHIE23 E2 Unconference Session
Uganda	Lab and Hospital system integration	Need to use OpenHIIM for integrating lab systems		hospital management systems are being started	MOH	OpenHIE23
Indonesia	CHISU	OpenHIM as a generic FHIR converter		In Progress	USAID, Jembi	OpenHIE23
Malawi	IHRIS / Health Worker Registry			In Progress	MOH	OpenHIE23
Malawi	PMCT / Product Catalog	PRODUCT CATALOG	Implemented	MOH	OpenHIE23
Malawi	(Terminology)	Putting terminology into the system and used for mapping between DHIS2 and OpenIMIS	TERMINOLOGY SERVICE	Implemented	MOH	OpenHIE23
Malawi	Health		FACILITY REGISTRY	Implemented	MOH	OpenHIE23
Ethiopia	National ID	Patient identity using biometrics		National / Starting	Mekelle University, MOH, Gondar	2023-05-01 (OHIE23 Day 1)
Nigeria	National Biometrics Collaborative	Capture Fingerprints to assist with patient Identity		HIV program 85% of patients are captured	PHIS3	2023-04-26 Patient ID Mgmt Collaborative Session — Working on FHIR support for APIs. Also have experience sharing data with DHIS2, EMRs and Labs.
Nigeria	National Concept dictionary			Starting		2023-04-07 Terminology Service Call
Philippines	eHealth Strategy Philippines	Blueprint / Architecture	NATIONAL	Published	Ministry of Health	2023-03-29 OHIN Call
Tanzania	Tanzania Blueprint	Blueprint / Architecture	NATIONAL	Published	Ministry of Health	2023-03-29 OHIN Call

Rwanda — interoperability notes:
- Have documented the interoperability standards that they are planning to use for DHIS2 and other standards.
- Using OpenHIM for the INTEROPERABILITY LAYER
- Using a CLIENT REGISTRY and all of the EMRs are connected to the interoperability layer.
- Using a FACILITY REGISTRY to align on facility name, planning for all partners and to use the facility registry to align on names.
- also using a shared health record
- have a TERMINOLOGY SERVICE
- have a HEALTH WORKER REGISTRY

Kenya: Using OpenHIM (INTEROPERABILITY LAYER)

Uganda: connect with Lab systems and had to integrate the INTEROPERABILITY LAYER, a component that links the data to a central lab where people can log in and get their results. Created an OpenHIM mediator (INTEROPERABILITY LAYER)

Nigeria: Includes facility details. Used in the integration with other systems to map facilities. Uses eCHIS and Simprint.

Malawi: Capture trade items and use GS1 standards.

Health Management Information System Community

The Health Management Information System Community (OHIE-HMIS) leads the development and deployment of technologies to better manage health information thus providing better patient care.

Community Leads: Bob Jolliffe, Austin McGee
Meeting info: Health Management Information System Subcommunity Calls

Health Worker Registry Community

The Health Worker Registry Community (OHIE-HWR) leads the development and deployment of provider registries, developed using technologies to support a comprehensive database of all providers of health care services in a certain population.

Community Lead: Ally Shaban, Dana Acciavatti
Meeting info: Health Worker Registry Subcommunity Calls

PEPFAR Data Exchange Implementer Community

The PEPFAR Data Exchange Implementer Community (PEPFAR-DEIC) serve for knowledge sharing between stakeholders involved in data import into DATIM, and to provide them with information on upcoming data exchange offerings.

Meeting info: PEPFAR Data Exchange Implementer Community Calls

Supply Chain Community

The Supply Chain Community (OHIE-SC) is a sub-team that engages with OpenHIE to leverage knowledge from real-world projects and lessons-learned from OpenHIE to explore the use/creation of standards and standard processes that might be used to support healthcare supply chain tasks.

Community Leads: Pierre Dane, Josh Zamor
Meeting Info: Supply Chain Subcommunity Call

Privacy and Security Working Group

Like all of our subcommunities this working group is open for all to join at any time. The group is in the early stages discussing scope and goals/outputs for the working group and what kind of products might be out there.

Community Leads: Bob Jolliffe, @Michael Markevich
Meeting Info: Privacy and Security Working Group Call

DevOps Community

The DevOps subcommunity has discussions around strategy leadership and coordination to; verify integration, communicate and demonstrate OpenHIE concepts, support implementer use of OpenHIE and conformance testing.

Community Leads: Sivuello Mgani
Meeting Info: DevOps Subcommunity Calls

Country	Project Name	Description	Status/Scale	Partners	Meeting Info	Notes
Sri Lanka	Sri Lanka Digital Health Blueprint (V1.0b)	Blueprint / Architecture	**NATIONAL** — Published	Ministry of Health	2023-03-29 OHIN Call	
Malawi	Master Patient Index (DDE) Patient Matching **CLIENT REGISTRY**	For case reporting from a central repository	around 170 sites	Ministry of Health EGPAF	2023-03-29 Patient ID Mgmt Collaborative Session	• DDE is built on top of Ruby on Rails. • FHIR standards. • Offline first architecture. • 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. • Currently 6 million unique clients registered
Haiti	Haiti Master Patient Index (Client Registry)	Lost to follow up / patient transfer / labs / Uses patient look up to avoid duplication of patients	**PILOT** — The initial scale for the pilot is for a specific EMR to a central repository. Aligning terminologies to move toward support for other EMRs. Pick two sites to start and learn about community needs	DIGI	2023-03-29 Patient ID Mgmt Collaborative Session	- Using FHIR standards including PIXm and PDQm - Integrates with a fingerprint registry - focus on integration between an EMR (Esante Plus, an OMRS Haiti implementation) and a client registry
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	2023/03 Jembi Mozambique Newsletter #7/2023	
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 / 42K patients / 60 facilities	Ministry of Health, Makerere University School of Public Health, CDC, Monitoring and Evaluation Technical Support (METS) Program, University of California San Francisco	2023-03-09 Treatment Continuity (DUC Meeting)	OpenHIM, FHIR / 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	2023-03-09 Treatment Continuity (DUC Meeting)	Comcare application with ability to send and receive data from the EMR / 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. **HEALTH WORKER REGISTRY** **FACILITY REGISTRY** GeoPrism Registry uses the GeoPrism spatial knowledge graph dependency management framework	**NATIONAL** — Implemented	TerraFrame, Clinton Health Access Initiative (CHAI), Health GeoLab Hub, Vital Wave	2023-03-23 Facility Registry Call (Presentation - see recording and notes) 2023-02-24 OHIE Architecture & Standards Call	FHIR, GeoJSON, VectorTiles / Direct integration with DHIS2 and Reveal.

Patient Identity Management Community

The Patient Identity Management Community is focused on technology that provides accurate, reliable and stable identification and de-duplication of individuals and other entities in a variety of contexts.

Community Lead: Mary Pittman, Toan Ong, Shaun Grannis

Meeting info: Patient Identity Management Community Calls

Interoperability Layer Community

The Interoperability Layer Community (OHIE) aims to enable easier interoperability between Health Information Systems by providing a forum for discussion and knowledge sharing and by designing and developing an interoperability layer that connects the components within the OHIE.

Community Lead: Ryan Crichton

Meeting info: Interoperability Layer Subcommunity Calls

Country	Project	Description	Status	Phase	Organization	Call	Standards/Tech
Mozambique	GeoPrism Registry	Interlinking systems (like OpenHIE registries) by common geographies for the correct periods of time. **HEALTH WORKER REGISTRY** **FACILITY REGISTRY** GeoPrism Registry uses the GeoPrism spatial knowledge graph dependency management framework	**PILOT**	Implementing	TerraFrame, Clinton Health Access Initiative (CHAI), Health GeoLab Hub	[2023-02-24 OHIE Architecture & Standards Call](#)	FHIR, GeoJSON, VectorTiles 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	[2023-02-24 OHIE Architecture & Standards Call](#)	HapiFHIR
Kenya	The Local Health System Sustainability Project - Cross Border Digital Health Solution	Patient Identity for reporting	**MULTI-NATIONAL** **PILOT** (scope to rest of EAC countries)	Development	IntelliSOFT Consulting	[2023-02-24 OHIE Architecture & Standards Call](#)	OpenHIM and EMR HapiFHIR SHR Standards : FHIR / Client Registry / OCL Terminology Services: CIEL / OCL 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** **PILOT** scope to rest of EAC countries)	Development	IntelliSOFT Consulting	[2023-02-24 OHIE Architecture & Standards Call](#)	OpenHIM and EMR HapiFHIR SHR Standards : FHIR / Client Registry / OCL Terminology Services: CIEL / OCL S/W solution: OpenMRS, DHIS2
Multiple Countries	PSI Digital Health consumer interventions	Consumer app to drive consumers to facilities for interventions (referral app)			PSI	[2023-02-24 OHIE Architecture & Standards Call](#)	RapidPro /WFA>OpenHIM > HapiFHIR > NiFi > Postgres > Superset 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	[2023-02-24 OHIE Architecture & Standards Call](#)	
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 academy. ohie.org) - offer face-to-face training (on academy.ohie.org)			UP Manila - Standards & Interoperability Lab (UPM-SILab)	[2023-02-24 OHIE Architecture & Standards Call](#)	Applying WHO SMART Guidelines for FHIR profiles/IG development (eg, viral hepatitis, liver diseases, etc) 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	[2023-02-24 OHIE Architecture & Standards Call](#)	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)	[2023-02-24 OHIE Architecture & Standards Call](#)	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)				[2023-02-24 OHIE Architecture & Standards Call](#)	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				[2023-02-24 OHIE Architecture & Standards Call](#)	

Shared Health Record Community

The Shared Health Record Community (OHIE-SHR) aims to enable the collection and storage of electronic health information about individual patients in a centralized repository which is capable of being shared across different healthcare settings.

Community Lead: Ryan Crichton

Meeting info: Shared Health Record Subcommunity Call Page

Clinical Metadata / Terminology Service Community

The Terminology Service Community (OHIE-TS) serves as a central authority to uniquely identify the clinical activities that occur within the care delivery process by maintaining a terminology set mapped to international standards such as ICD10, LOINC, SNOMED, and others.

Community Leads: Jack Bowie Jonathan Payne Joe Amlung

Meeting info: Terminology Services Subcommunity Call Page

Ethiopia, Chile, Malawi?	Terminology Service Implementation		**NATIONAL**	Maintenance	CENS (Chile)	TS Implementer Series: Chile
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	https://www.youtube.com/watch?v=w_wuUoFAp7I