APEHC 2023

Dr. Alvin Marcelo
Director

AeHIN Asia eHealth Information Network

Disclosures

- Director and Treasurer, AeHIN
- Chief Medical Information Officer, St. Luke's Medical Center
- Director, University of the Philippines Manila Standards and Interoperability Lab

We are AeHIN

The Asia eHealth Information Network (AeHIN) is a collaboration of digital health advocates from South and South-East Asia committed to promoting interoperability for better health.

Starting with 7 memebrs in 2011, AeHIN now has over 1800 members with presence in 72 countries. AeHIN is incorporated in Hong Kong and maintains secretariats in Manila, Bangkok, Jakarta, and Kuala Lumpur.

AeHIN has helped build capacity in the region by laying down national digital health foundations: governance, architecture, program management, standards and interoperability or GAPS.

AeHIN encourages countries to Mind the GAPS in their digital health planning and Fill the GAPS in their implementation.

AeHIN activities range from conferences, general meetings, certification training, webinars, and online repositories, all contributing to a stronger networked approach to digital health development.

Vision

Strengthened interoperable digital health ecosystem for better health in Asia

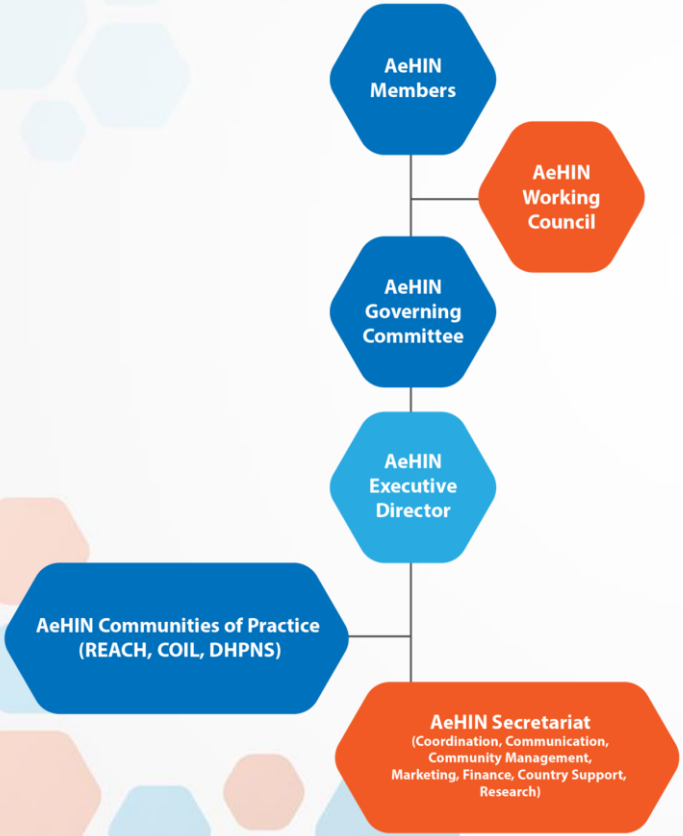
Mission

Promote learning, resource sharing and knowledge exchange to strengthen digital health through the networking approach

4 Strategic Areas

- Promote leadership and governance for digital health
- Facilitate capacity-building for digital health
- Create opportunities for knowledge exchange and resource sharing
- Enable interoperability through standards

AeHIN Governance Structure



AeHIN Working Council

- Bhutan
- Cambodia
- Hong Kong
- India
- Indonesia
- Japan
- Lao PDR
- Malaysia
- Maldives
- Mongolia
- Myanmar
- Nepal
- Philippines
- Sri Lanka
- Taiwan
- Thailand
- Vietnam

REACH = Regional Enterprise Architecture Council for Health
COIL = Community of Interoperability Labs
DHPNS = Digital Health Planning National Systems

AeHIN Governing Committee

Dr. Boonchai Kijsanayotin

Chair, AeHIN

Senior Lecturer, Faculty of Medicine Ramathibodi Hospital, Mahidol University

Senior Research Manager, Thai Health Information Standards Development Center (THIS)

Fellow, Academy of Health Sciences and Informatics

Mr. Jai Ganesh Udayasankaran

Executive Director, AeHIN

Senior Manager, Healthcare Information Technology and Telehealth at Sri Sathya Sai Central Trust, India

Expert Committee, Fondation Pierre Fabre, France

Certified in Digital Health Planning National Systems

Dr. Alvin Marcelo

Treasurer, AeHIN

Chief Medical Information Officer, St. Luke's Medical Center

Certified in governance of enterprise IT, TOGAF, Archimate, and COBIT5 Foundation/Implementation

Dr. Fazilah Shaik Allaudin

Board Member, AeHIN

Senior Deputy Director, Planning Division, MoH Malaysia

Professionally certified in Enterprise Architecture (TOGAF9.0) and in Governance & Management of Enterprise IT (COBIT 5.0)

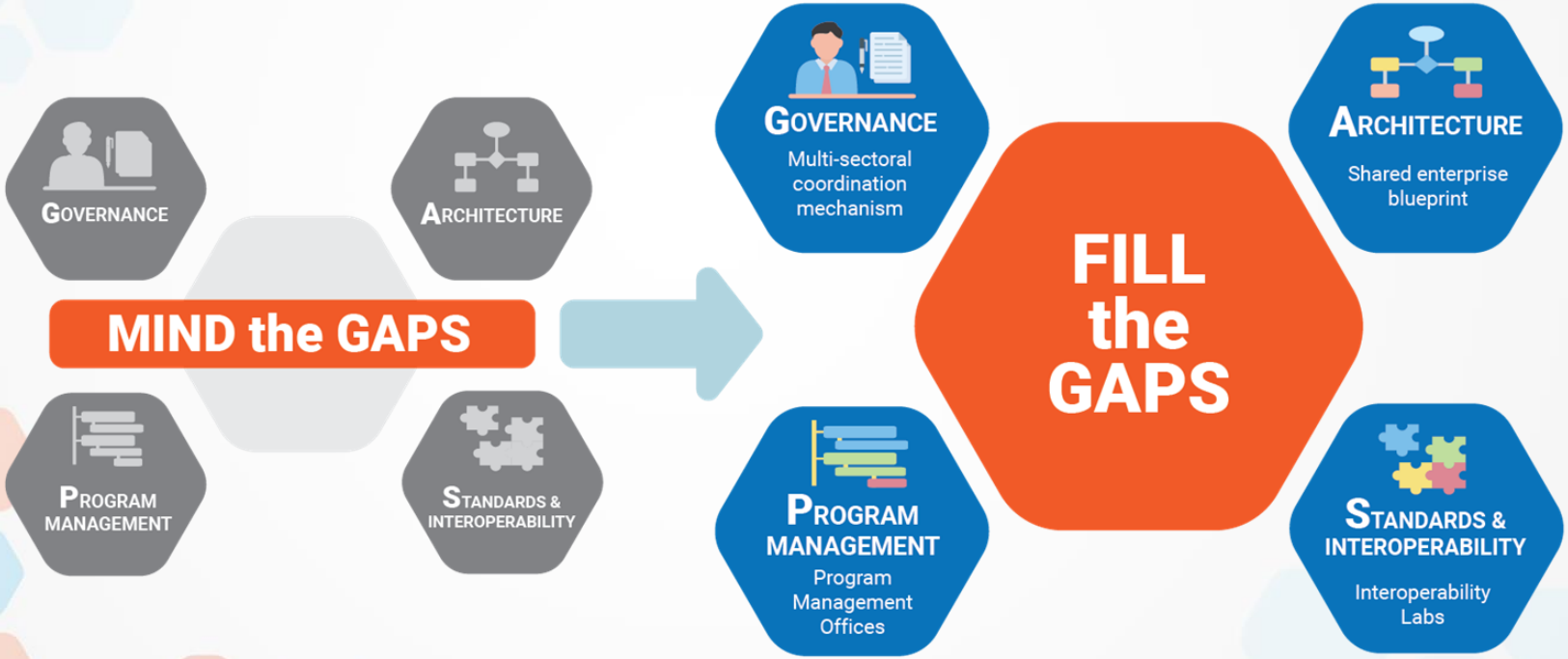
Mr. Anis Fuad

Board Member, AeHIN

Researcher, Center for Health Policy and Management, Universitas Gadjah Mada

Head of Data and Technology Division, Indonesian Hospital Association (PERSI)

AeHIN Call to Action

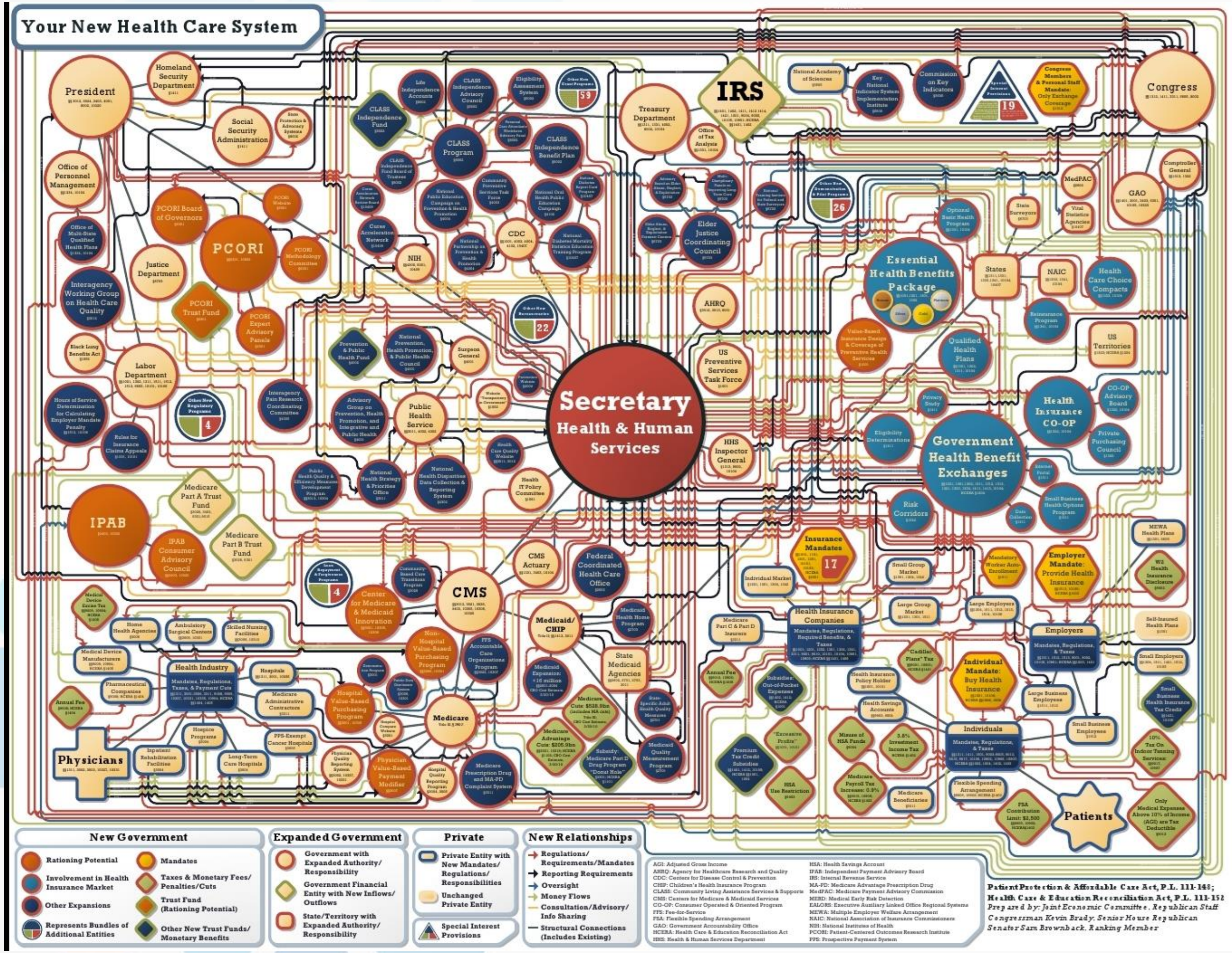


ON GOVERNANCE

We call upon stakeholders, public and private, to support the **leadership of the Ministry of Health** in developing national digital health strategies that respond to the needs of Universal Health Coverage (UHC), such as registration, prevention, treatment, rehabilitation. As the health sector leader, the Ministry of Health shall ensure coordination, collaboration of digital health projects of partners and stakeholders.

GOVERNANCE

Multi-sectoral coordination mechanism

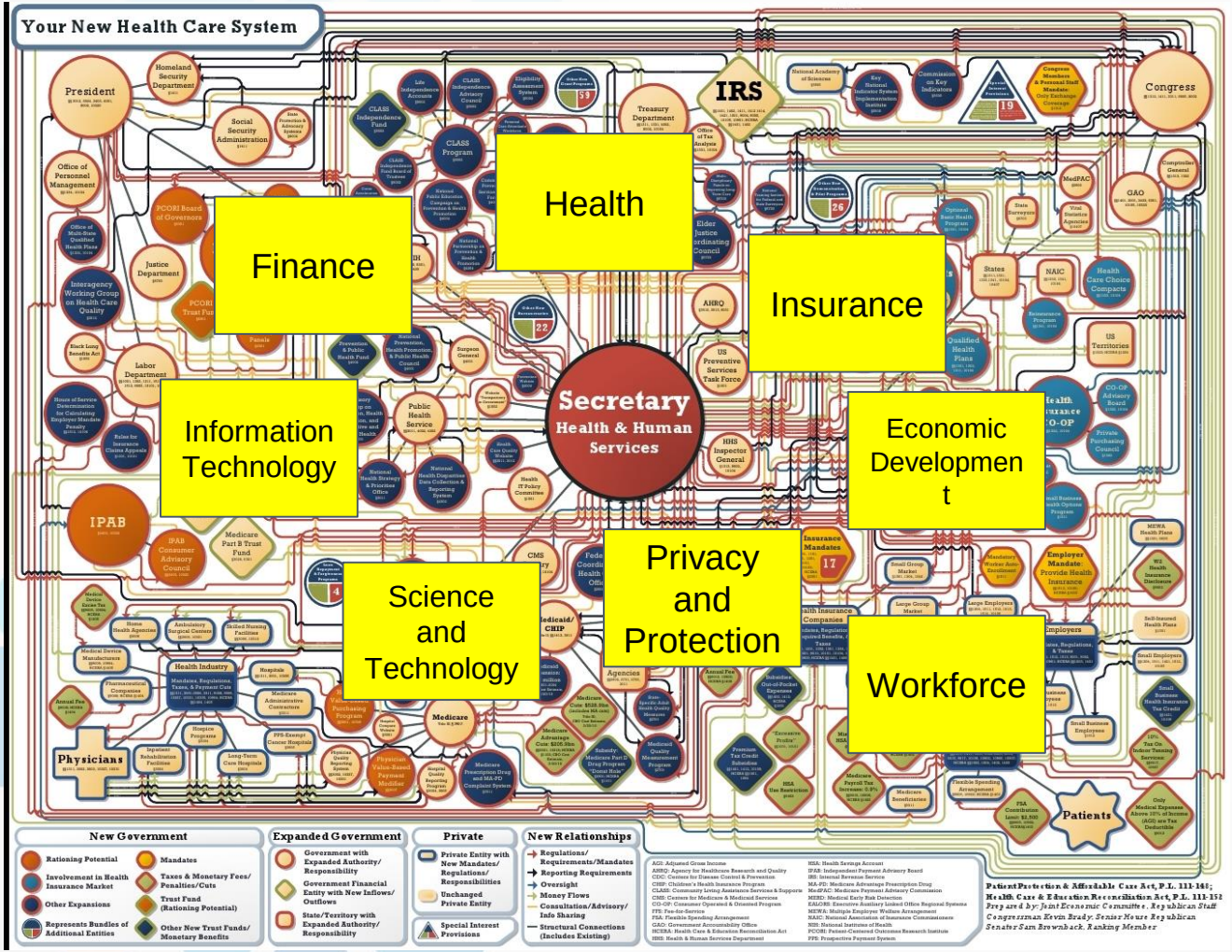


Health Systems are Complex

Many stakeholders

Many transactions between stakeholders

Different rules and contractual arrangements



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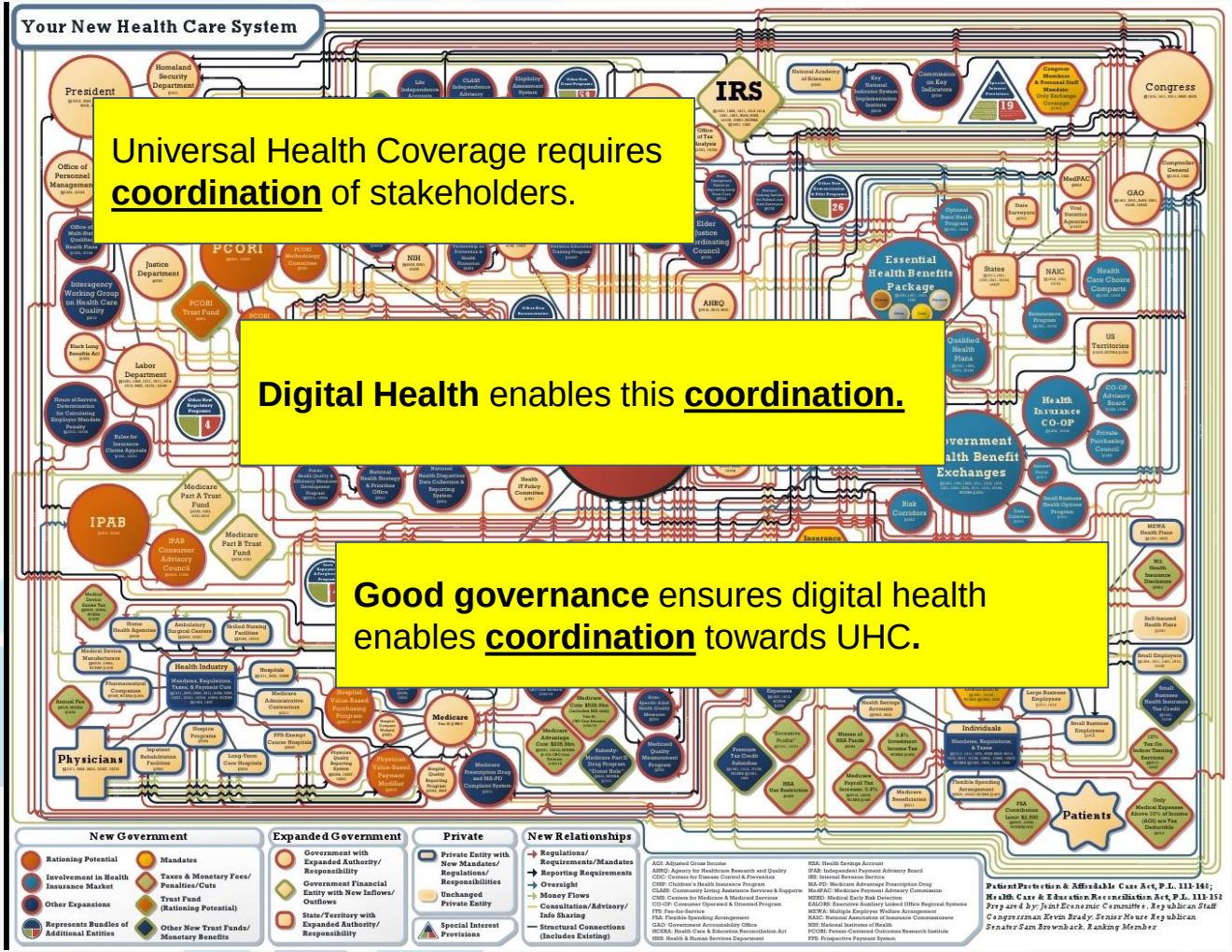


Health Systems are Complex

Many stakeholders

Many transactions between stakeholders

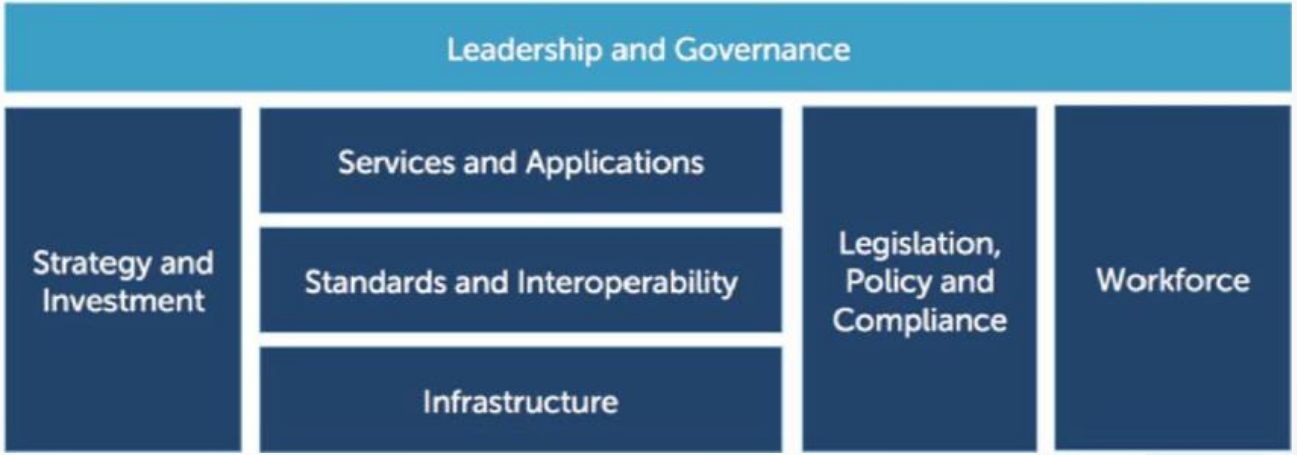
Different rules and contractual arrangements

How do we then navigate the complex system?

What do we mean by “govern”?

National eHealth Strategy Toolkit
Overview
World Health Organization
ITU

WHO-ITU 7 Components of National eHealth Strategy (2012)



Source: [WHO-ITU National eHealth Strategy Toolkit]

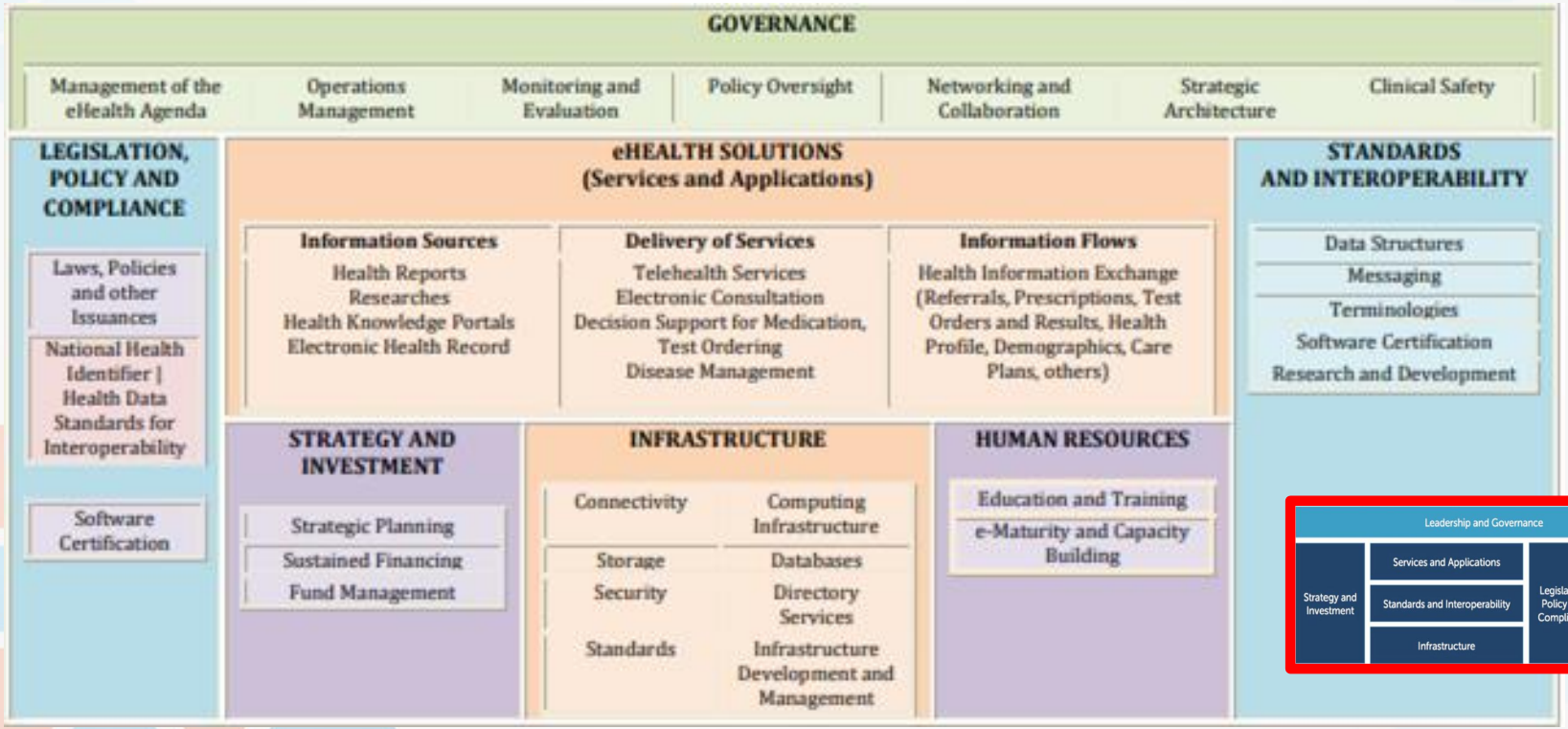
WHO-ITU Component: Leadership and Governance

Source: [WHO-ITU National eHealth Strategy Toolkit]

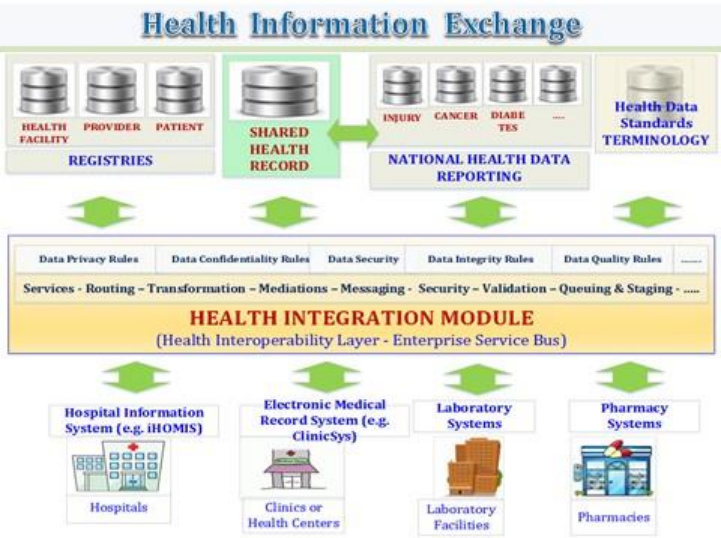
Governance: Philippines

Source: https://www.slideshare.net/isiptan/government-or-private-sector-the-future-of-asias-healthcar infrastructure

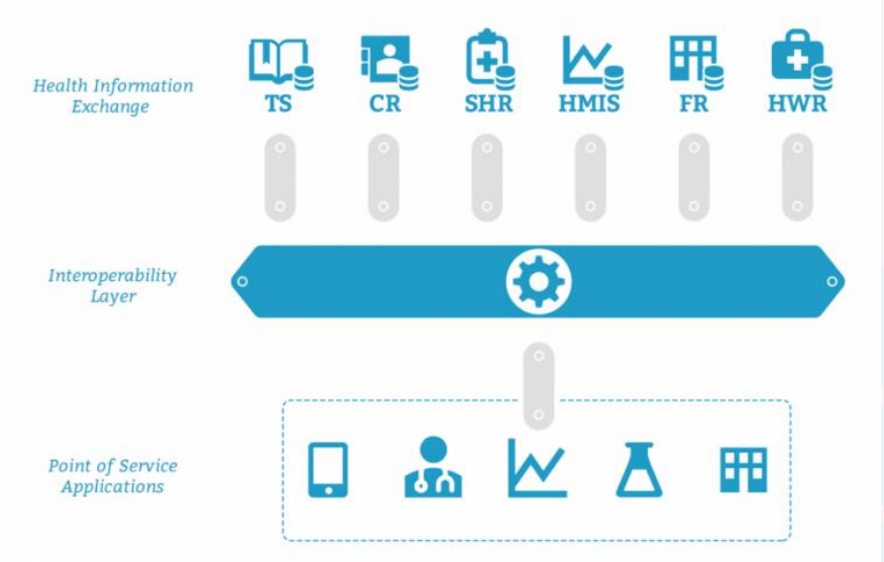
Philippine National eHealth Framework



Architecture: Philippines



Source: ehealth.doh.gov.ph



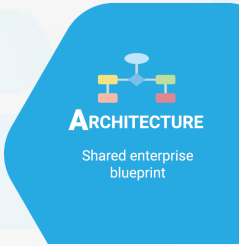
Source: wiki.ohie.org

For AeHIN, Digital Health Governance means:

1) **Creating a multi-sector coordination structure led by the Health Sector**
2) **Setting priorities for UHC**
3) **Sharing a blueprint that contains priority digital health projects (some may be with ICT, insurance, CRVS, etc)**
4) **Confirming ownership of key projects in the blueprint (national ID, etc)**
5) **Ensuring adequate investments on the key projects**
6) **Monitoring the projects continuously towards success**

Governance means a) making sure the <u>needs</u> of your sector are met, and b) <u>meeting regularly</u> for coordination (convened by MOH)

Enterprise Architecture (EA)



(EA) is a blueprint—a coherent framework of principles, methods and models—used in the design and realisation of the enterprise's organisational structure, business process, information systems and digital health infrastructure. EA is also commonly described as a master plan providing a holistic view of the entire enterprise as a system of systems

(Source: BMJ Health & Care Informatics, July 2020)

Why is EA important at the national level?

- Aligns business and technology strategy into a single initiative to achieve a common goal.
- Delivering citizen centric services cost effectively
- Strengthening cross-agency collaborations for information sharing data mining and analysis, application and infrastructure consolidation, and shared services.

What are the major challenges with EA in many countries?

- Lack of EA skills and competency
- Lack of EA knowledge and leadership among senior management
- A grey area between ICT and Business – need a driver to push EA
- Need clear understanding that ICT project is all about business transformation

ON ARCHITECTURE

Because digital health systems are complex, a **shared blueprint and roadmap** is needed to guide stakeholders.

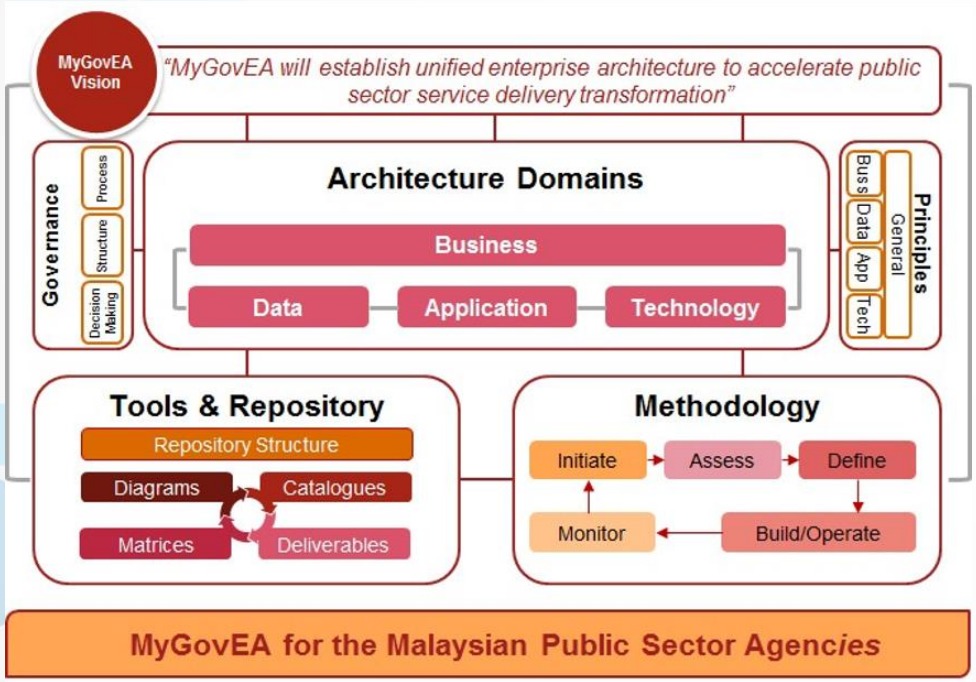
We recommend:

1. designating an **enterprise architect in the MOH** to oversee this blueprint
2. engaging **experienced professional and certified enterprise architects** to advise government and development partners on the blueprint formulation
3. nominate #1 and #2 into a **Regional Enterprise Architecture Council for Health (REACH)** for best-practice knowledge sharing

ARCHITECTURE

Shared enterprise blueprint

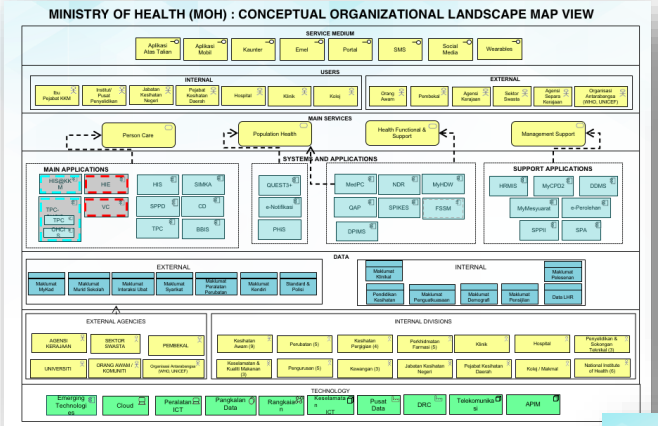
EA of the Malaysia's Public Sector (MyGovEA)

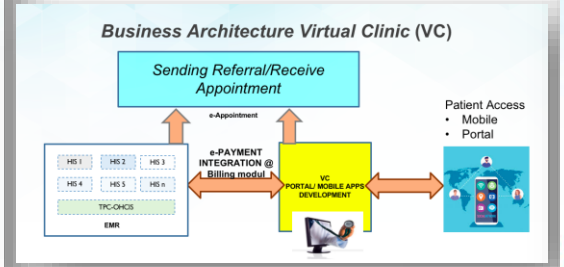


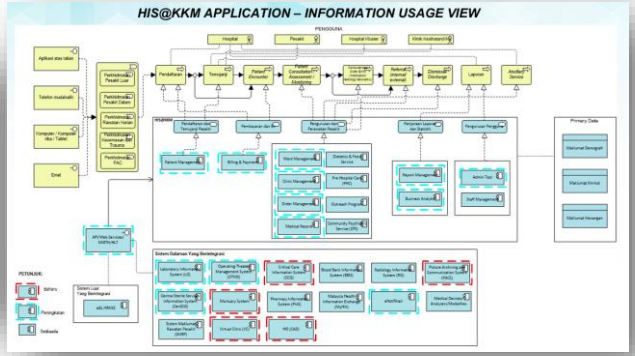
Source: MAMPU, Malaysia

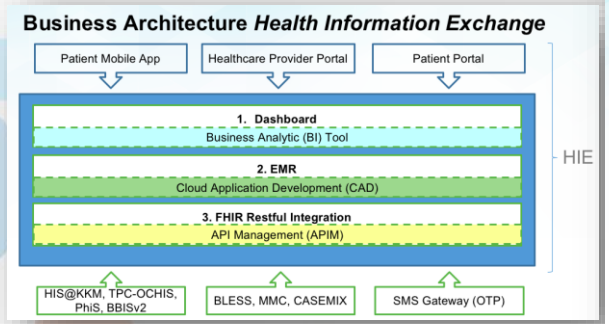
- The master plan of MyGovEA has been developed in 2015.
- The public sector EA shall be implemented by adopting MyGovEA.
- Adopt EA in all ICT project requirement and approval phase since 2019; must have **EA methodology and BDAT** (business, data, technology and application architecture)
- EA methodology also is used in development of Digitilisation Strategic Plan 2021-2025 of every Ministries.
- Resulted in better convergence and alignment of business and ICT strategies

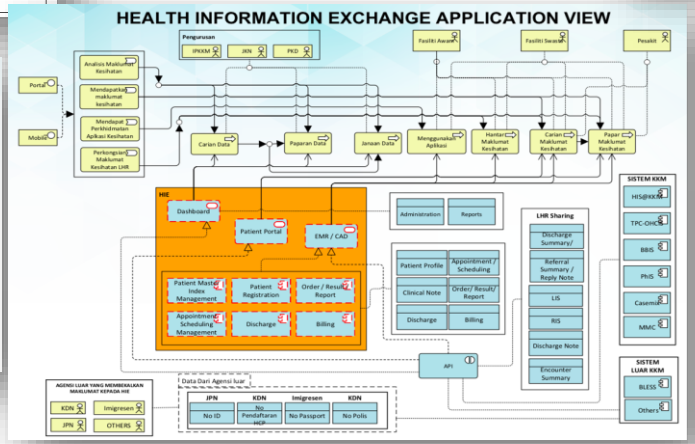
BDAT Architectures in MOH

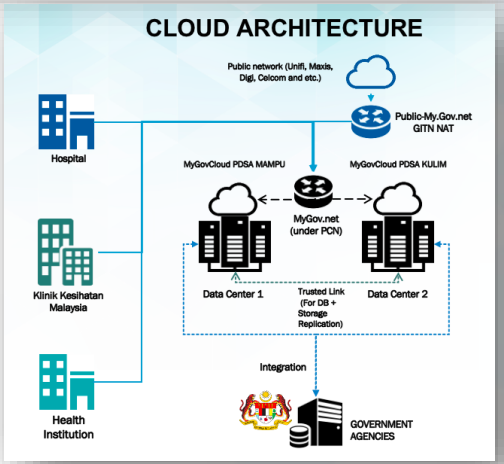












Enterprise Architecture in Indonesia

dto.kemkes.go.id

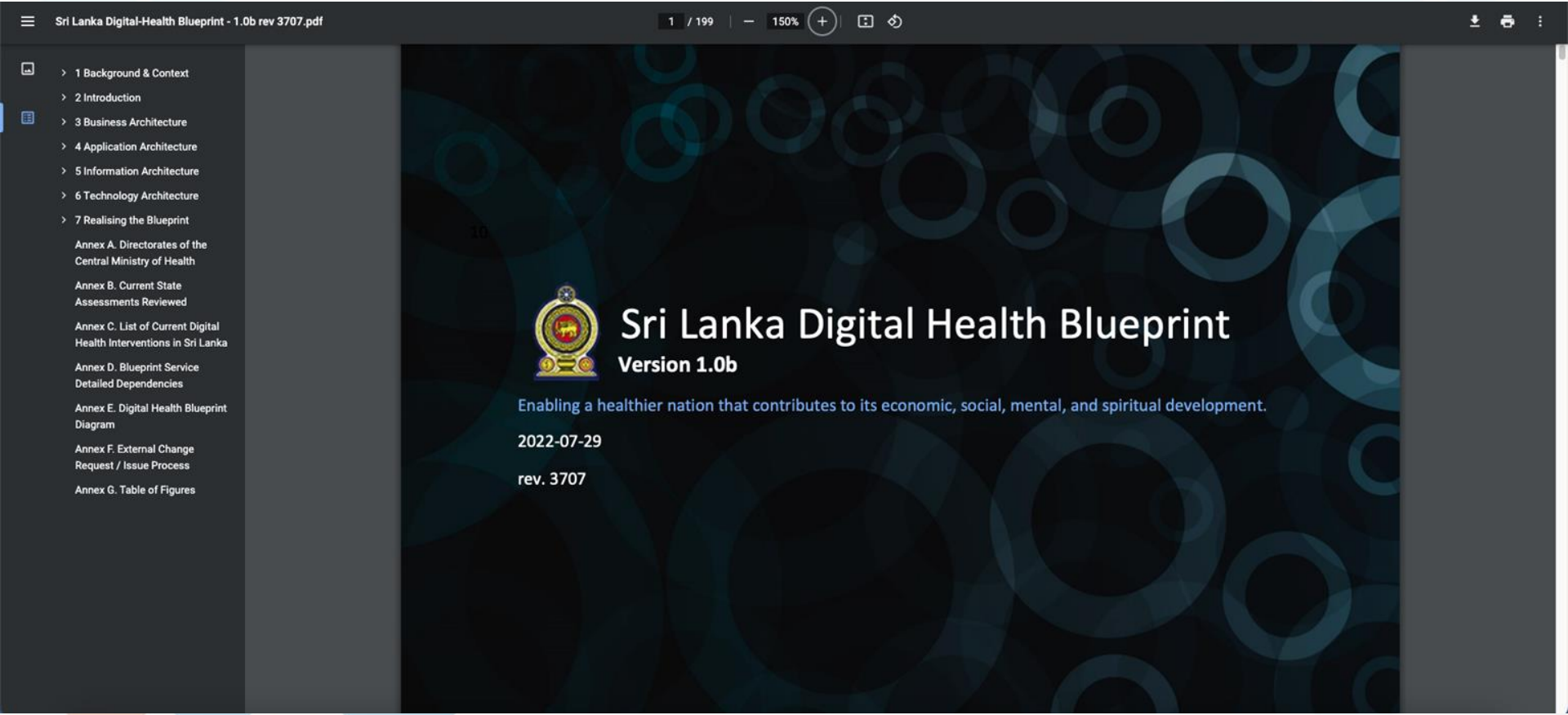
Update

Blueprint of Digital Health Transformation Strategy 2024

Blueprint of Digital Health Transformation Strategy 2024 is here to answer problems, potentials, and challenges Indonesia's digital transformation so as to provide solutions that comprehensive, implementable, and measurable in development sustainable health services.

Download Our Book | Download Our Book

Enterprise Architecture in Sri Lanka



ON PEOPLE AND PROGRAM MANAGEMENT

- National digital transformation in health is complex
- Lack of capacity in MoH to manage programs (multiple simultaneous digital health projects)
- Requires multi-sectoral coordination
- Consensus-building takes time but the results are more sustainable

Interoperability requires close coordination of various projects often led by multiple departments. Effective program management ensures various stakeholders coordinate their efforts to achieve optimal impact.

Standards, when adopted by people, enables interoperability!

PROGRAM MANAGEMENT

Program Management Offices

ON PEOPLE AND PROGRAM MANAGEMENT

- AeHIN calls upon stakeholders to **support the MoH strengthen the capacity and capability** of their national **Digital Health Program Management Office (PMO)**. This includes developing capacity to manage multiple digital health-related projects in partnership with other sectors
- We encourage MoH to **establish a pool of certified project managers (National Program Management Team/Office)**
- MoH may **leverage regional learning networks like AeHIN** to facilitate **PMO-to-PMO learning/sharing/support**

Encourage Cooperation -> Enable Collaboration -> Ensure Coordination -> Endeavour Convergence -> Experience Coherence

PROGRAM MANAGEMENT

Program Management Offices

ON STANDARDS AND INTEROPERABILITY

1) We request open access and technical assistance to international health standards like **ICD11 and HL7-FHIR**. These **health standards** are important components of i**nteroperable digital health systems**, enabling availability of data for better patient care and monitoring of population health.
2) We encourage setting up of **Interoperability Labs** in each country as Centers of Excellence. At the regional level, they will comprise the **Community of Interoperability Labs (COIL)**.

STANDARDS & INTEROPERABILITY

Interoperability Labs

AeHIN Community of Interoperability Labs (COIL)

- **Network of interoperability laboratories** sharing knowledge and tools
- **Build capacity within countries** for interoperability
- **4Ts: teaming, tooling, training, testing**

Active Country Labs:

- Philippines (University of the Philippines Manila Standards and Interoperability Lab)
- Thailand (Standards and Interoperability Lab-Thailand)
- New Zealand (Aotearoa New Zealand Interoperability Lab)
- Taiwan (Standards and Interoperability Lab-Taiwan)
- Sri Lanka (Sri Lanka Community Interoperability Lab) - Virtual

Labs in development:

- SIL-Laos, SIL-Nepal, SIL-Hong Kong

AeHIN REACH

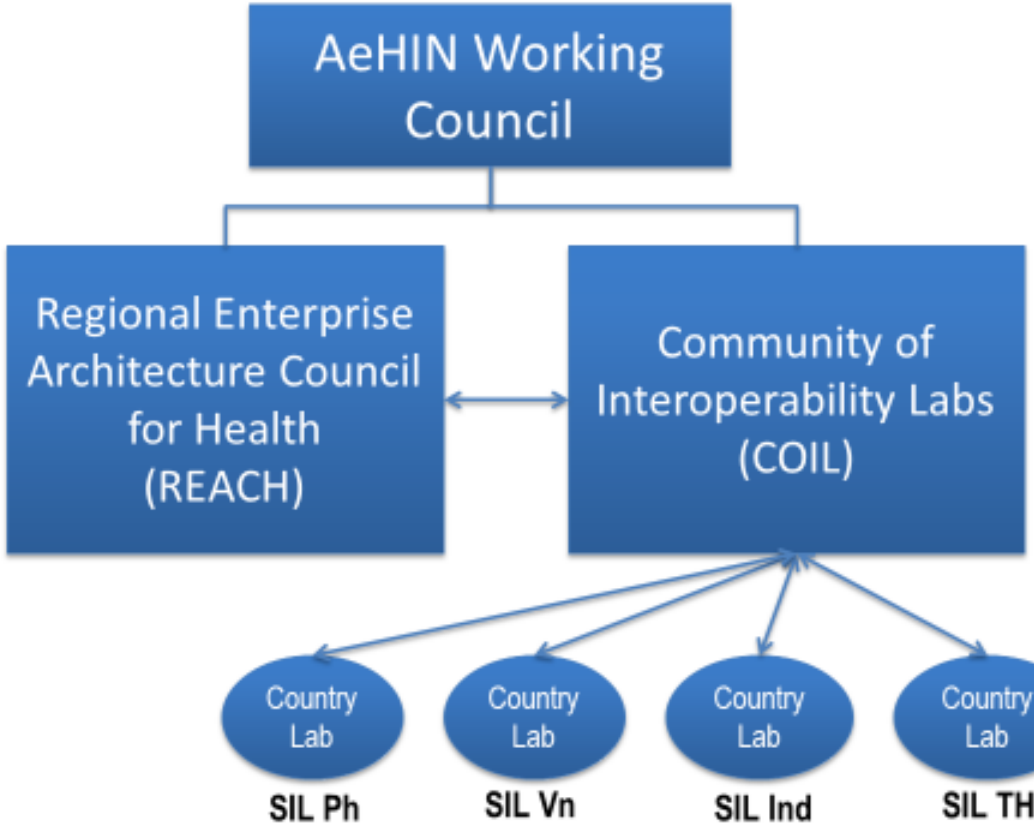
Regional Enterprise Architecture Council for Health

- **TOGAF trained or certified** from MOH/academe assigned to the architect role in their countries
- **TOGAF certified professionals and firms** within countries interested in providing support to the government or MOH

The REACH and COIL

REACH Call to Action

1) identify an internal enterprise architect
2) get external support from professional architect
3) nominate #1 and #2 to REACH
4) check the output of COIL



COIL Call to Action

1) create one interoperability lab following the template
2) support interoperability use cases prioritized by the MOH
3) consult REACH

SIL-TH

Standard and Interoperability Lab Thailand

SIL-TH Leaders

Technical lead

Dr.Prapat Suriyaphol
Bioinformatics, Enterprise Architecture

Faculty of Medicine Siriraj Hospital,
Mahidol University

Clinical lead

Dr.Boonchai Kijsanayotin
Physician, Health Informaticians

Faculty of Medicine Ramathibodi Hospital,
Mahidol University
Thai Health Information Standards Development Center (THIS)

Policy lead

Dr.Piya Hanvoravongchai
Physician, health policy and system researcher
National Health Reform Committee Member

Faculty of Medicine, Chulalongkorn University

SIL-TH Members

Dr.Daorirk Sinthuvanich
Physician

Thai Health Information Standards Development Center (THIS)

Dr.Kwin Sirikwin
Physician

Bamrasnaradura Infectious Diseases Institute, Ministry of Public Health

Dr.Supharerk Thawillarp
Physician

Department of Disease Control, Ministry of Public Health

Dr.Rath Panyowat
Physician

Thai Health Information Standards Development Center (THIS)

Dr.Thanaphop Na Nakhonphanom
Physician

Faculty of Medicine, Khon Kaen University

Mr.Natdanai Thaipipat
Pharmacist

Faculty of Medicine Siriraj Hospital, Mahidol University

Kidkom Salelanont
Nurse

Thai Health Information Standards Development Center (THIS)

Rachata Unlamarn
Pharmacist

Buriram Hospital

University of the Philippines Manila Standards and Interoperability Lab (SILab)

Website: https://sites.google.com/up.edu.ph/upmsilab/about-us

Aoteroa New Zealand Interoperability Lab (ANZIL)

HiNZ Health Informatics New Zealand | New Zealand's meeting place for digital health

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Aotearoa New Zealand Interoperability Lab (ANZIL) Launches - First Event May 16-20

Sunday, 1 May 2022

Share

SECTOR UPDATE - ANZIL

S23M Healthcare Solutions has launched the not-for-profit Aotearoa NZ Interoperability Lab (ANZIL) and had an establishment meeting with the founding members in March. ANZIL is the Aotearoa New Zealand partner to the Asia eHealth Information Network (AeHIN) Community of Interoperability Labs (COIL), around Asia and the Middle East. The COIL Labs seek to facilitate health information systems interoperability, based on standards, with a heavy focus on FHIR®, and the International Patient Summary (IPS), as well as SNOMED® CT, especially the free SNOMED subset available to low income countries that supports codes for use in IPS Resources. However, ANZIL is a member-driven organisation, and open to exploring any de-facto or de-jure standards-based interoperability that our members are using.

The ANZIL Lab membership structure allows maximum engagement, starting with just $50 per annum for curious individuals, and then a tiered membership fee for organisations of different sizes. Membership information and applications are here.

Members, and new participants that join us before 16 May can attend the first Annual Creative Collaboration event for free. The overarching theme of the event is "What do the ANZIL members wish to achieve during the first year".

It is held in an online variation of the Open Space format workshop structure running between 16 May and 20 May 2022. The workshop includes a 2-hour interactive kick-off, as well as a week of asynchronous online collaboration on the topics submitted by our members. The workshop will conclude with a 30-minute presentation of results and a 30-minute closing roundtable to coordinate agreed follow-up activities. The total amount of engagement is intended to be equivalent to a one day workshop, spread over the week. The topics to be discussed, and where you choose to learn or contribute knowledge is completely members' choice.

Password

Remember Me

SIGN IN

FORGOT YOUR PASSWORD?

HAVEN'T JOINED YET?

EHEALTHNEWS more

28/03/2023
HAWKE'S BAY CO-DESIGNS EMERGENCY CALLS SOLUTION

28/03/2023
ALCIDION'S MIYA PRECISION SUPPORTING PATIENT FLOW AT ALFRED HEALTH

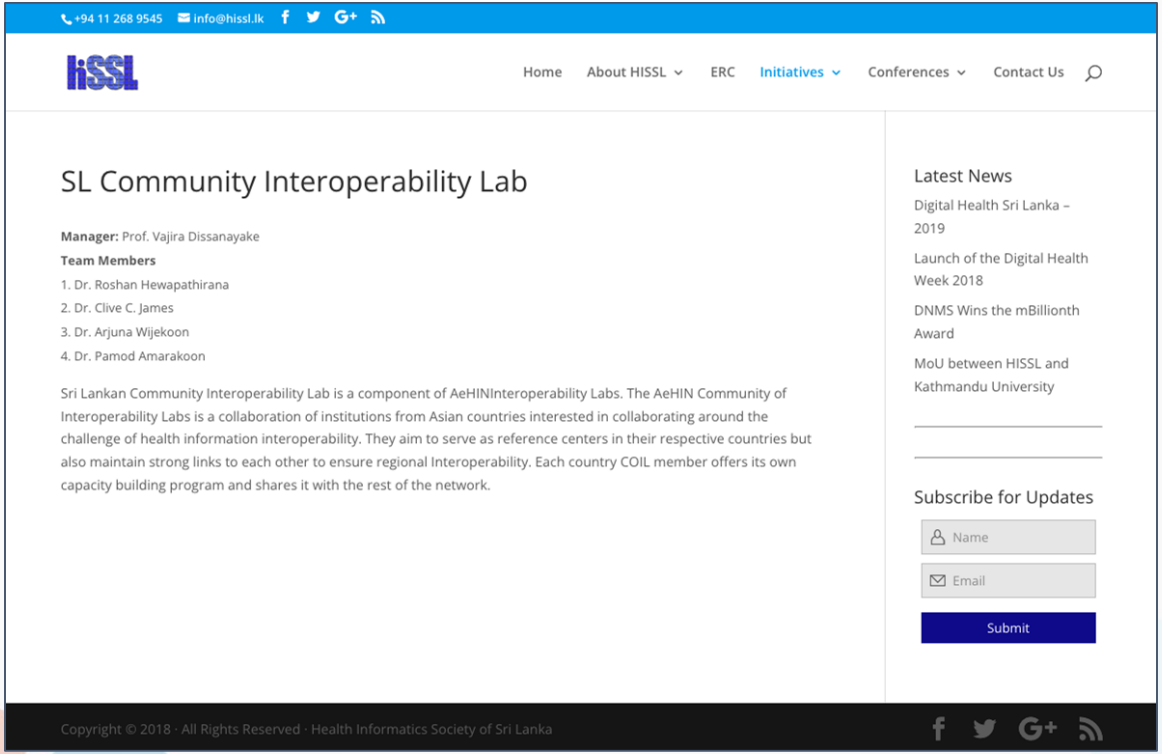
EVENT CALENDAR more

27/11/2023 » 30/11/2023
DIGITAL HEALTH WEEK NZ 2023

26/11/2024 » 29/11/2024
DIGITAL HEALTH WEEK NZ 2024

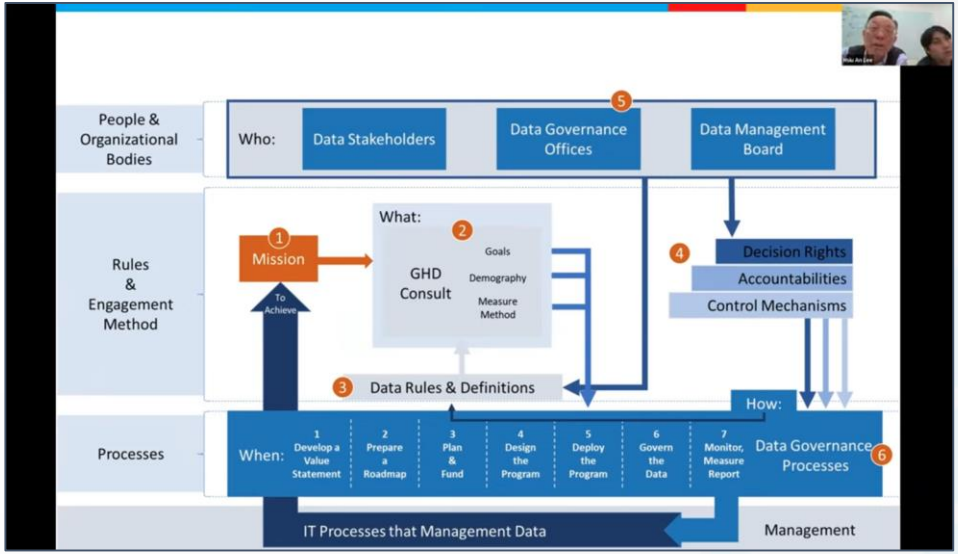
Webinar Recording: https://youtu.be/L3JNmxlcZ90

Sri Lanka Community Interoperability Lab (Virtual)



Website: https://hissl.lk/sl-coil/

Standard and Interoperability Lab
Smart Healthcare Center of Excellent Taiwan



Webinar Recording: https://youtu.be/zuZX_ekhfaE

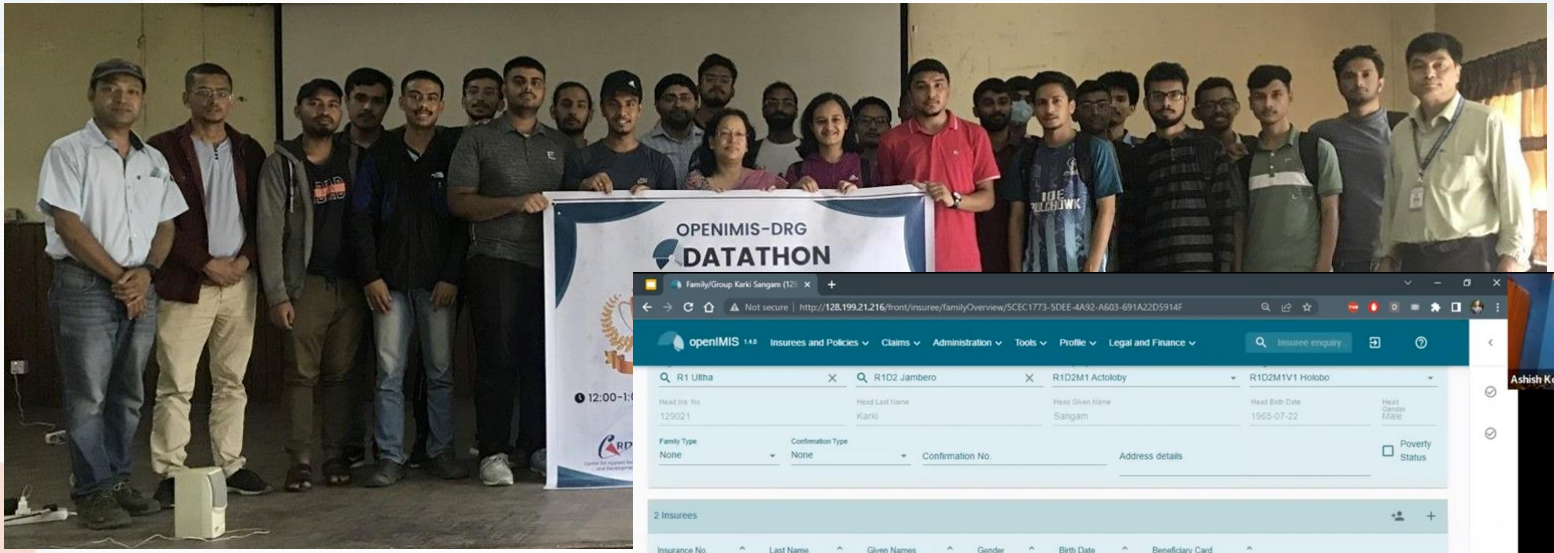
AeHIN-openIMIS CoP

Communities of Practice

- **Regional hub** of health education institutions, medical student associations, in-country interoperability labs, and other related networks that actively **review, implement, and evaluate openIMIS in various use cases**, particularly in the academic setting, to support the application of ICT solutions for social health protection. We have collaborated with education experts from the following:
  - **Nepal** - Tribhuvan University and Kathmandu University
  - **Indonesia** - Graduate Program of Public Health, Faculty of Medicine, Public Health and Nursing, Universitas Gadjah Mada, Yogyakarta, Indonesia
  - **Philippines** - University of the Philippines Manila, St. Luke's College of Medicine, San Beda College of Medicine, Asian Medical Studies Association Philippines
  - **Sri Lanka** - Health Informatics Society of Sri Lanka
  - **Cambodia**

Nepal

Tribhuvan University



Kathmandu University

Indonesia

Graduate Program of Public Health, Faculty of Medicine, Public Health and Nursing, Universitas Gadjah Mada, Yogyakarta, Indonesia

Philippines

University of the Philippines

St. Luke's College of Medicine

San Beda College of Medicine

Asian Medical Students Association Philippines

Sri Lanka

Health Informatics Society of Sri Lanka

Available courses

openIMIS Linux Based Server Implementation Tutorial

This implementation tutorial was made and presented by the Kathmandu University Team Nepal

AeHIN-openIMIS Community of Practice General Webinars

These webinars were organized by the Asia eHealth Information Network for the openIMIS initiative and sponsored by the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH.

openIMIS Training Program: A Regional Hub Manual

Awareness-building on DRG for UHC

The webinar series was organized by the Asia eHealth Information Network (through Dr. Supasit Pannarunothai) for the openIMIS initiative and sponsored by the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH.

Using openIMIS as a Tool for COVID-19 Response - A Practical Guide

This course was developed by the Asia eHealth Information Network (through Julius Migriño, Jr., MD) for the openIMIS initiative and sponsored by the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH.

Introduction to openIMIS

This course was developed by the Swiss Tropical and Public Health Institute, for the openIMIS initiative and sponsored by the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH, on behalf of the German Federal Ministry for Economic Cooperation and Development (BMZ) and the Swiss Agency for Development and Cooperation (SDC) under the Swiss Federal Department of Foreign Affairs (FDFA).

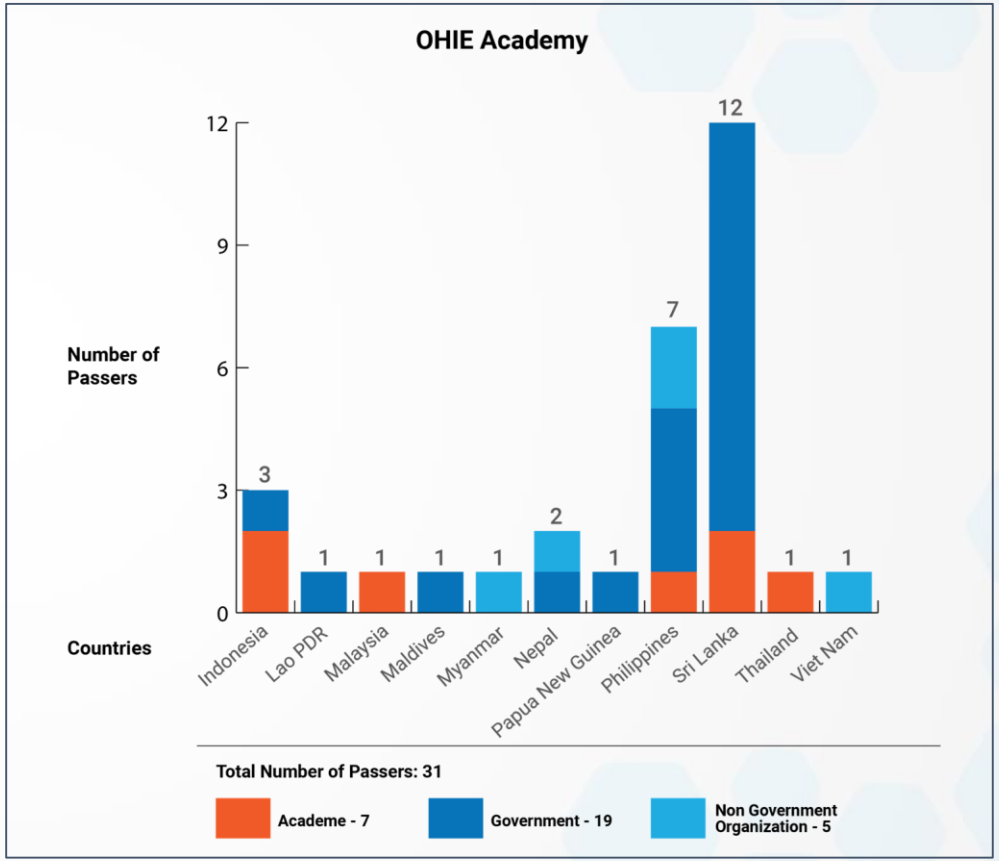
AeHIN Academy

Country	HL7 Fundamentals Online Course (2013)	TOGAF - Mongolia (2013)	DHIS 2 Academy Asia (2014)	DHIS 2 Academy Asia Level 2 (2015)	Archimate 2.0 Certification Training (2014)	Archimate 2.1 Online Training (2015)	TOGAF Certification Training (2014)	Training Certification Course on IT Governance using COBIT (2014)	COBIT 5 Implementation Certification Training - Bangkok, Thailand (2016)	ArchiMate: Notation for Enterprise Architecture (2016)	COBIT5 Implementation - Online (2017)	Course on Health ICT Governance and Architecture Framework - Singapore (2017)	PRINCE2 Foundation + Practitioner (2019)
Bangladesh	4		1			6	3	1			1	2	1
Bhutan									1		1	2	1
Cambodia						1		3				2	2
Fiji						1							
India	3							1	1				
Indonesia	3					1	2	2	2		1		1
Lao PDR			2	2							1	2	1
Malaysia			2				6	2	2	6	2		5
Maldives						1							2
Mongolia		29			18	2		1					
Myanmar	3								1			1	6
Nepal	1		3										1
Nigeria						7							
Pakistan							1	1					1
Philippines	4	1	4	1	1	3	3	13	3		3	2	3
Sri Lanka	1		1	2		3	2	2			2		2
Thailand	2					2	2	3	10		2	2	2
Tonga												2	
Unidentified						2							
Vietnam	3							1				4	2
Total	**24**	**30**	**13**	**5**	**18**	**29**	**19**	**30**	**20**	**6**	**13**	**19**	**30**

OpenHIE Certification

In this program, AeHIN supported individuals with the cost of taking the OpenHIE Certification Exam (39 USD). All the courses and materials to prepare for the certification exam are free through OpenHIE Academy.

The certification exam designates that the certificate holder “understands the basic concepts of interoperability, understands the basic function of health information exchange and the OpenHIE Architecture components, can designate which HIE architecture components are needed to solve a health data exchange challenge, and has a basic understanding of the importance of semantic and syntactic standards.”



List of Passers
(Who consented to publish their name)

- ENNY RACHMANI, INDONESIA
- SOUTHINY PHIAHOUAPHANH, LAO PDR
- CHIAW LEE CHIEW, MALAYSIA
- FATHIMATH SHAMAH, MALDIVES
- WAI PHYO THANT, MYANMAR
- JAGADISH ROUNIYAR, NEPAL
- SANJAYA POUDEL, NEPAL
- MICHAEL KOIMANREA, PAPUA NEW GUINEA
- JOMELLE WONG, PHILIPPINES
- MACQUEL SERRANO, PHILIPPINES
- VICENTE ALBERTO PUYAT, PHILIPPINES
- CHAMINDA WEERABADDANA, SRI LANKA
- FATHIMA SUMAIYA MUBARAK, SRI LANKA
- JAYATHRI WIJAYARATHNE, SRI LANKA
- MENDIS APPU PRASATH, SRI LANKA
- PRABATH JAYATISSA, SRI LANKA
- POORNA FERNANDO, SRI LANKA
- PRABBHADINI GODAGE, SRI LANKA
- PUBUDU ARIYARATHNE, SRI LANKA
- SHAKIRA IRFAAN, SRI LANKA
- SONALI LUNUWILA, SRI LANKA
- WAI PHYO THANT, MYANMAR

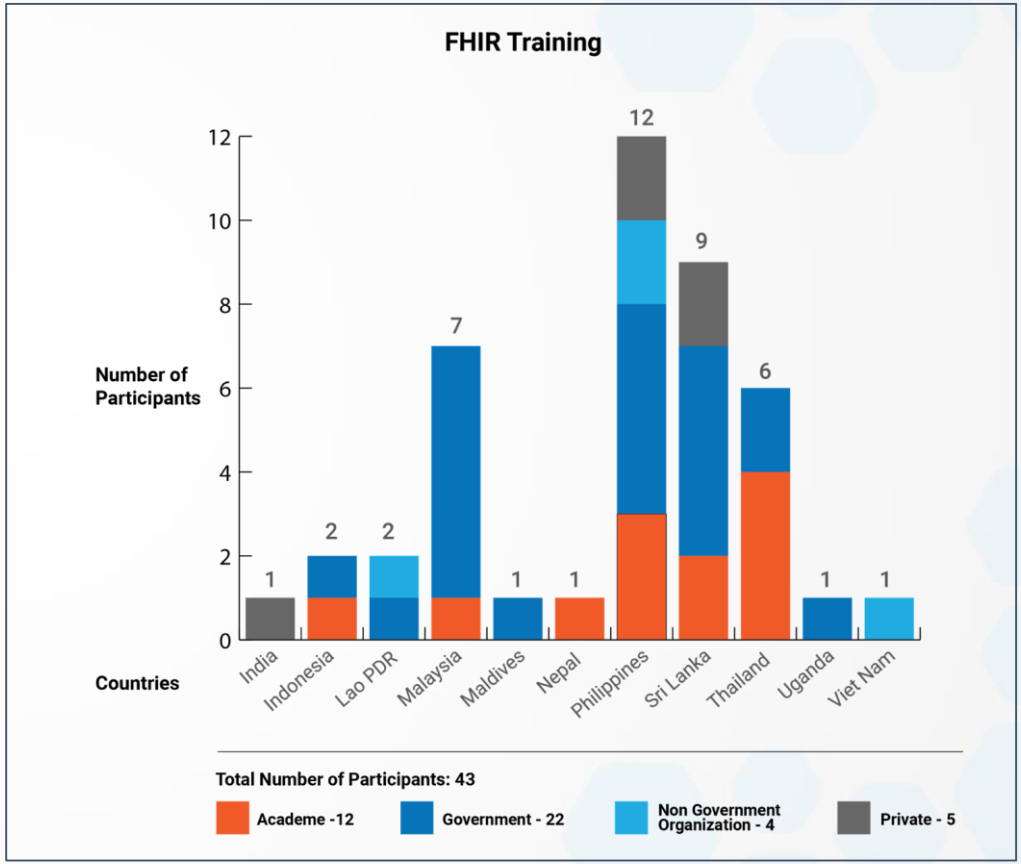
Summary of Feedback

Positive:	**Needs Improvement:**
- Learn how to identify the components of HIE in different use cases and also understand how we can make use of this openHIE framework and apply it to the local context	- The course should contain more practical examples
Recommendations and Other Comments: - Similar program for the enterprise architecture - Similar program for the more advanced course	

FHIR Training

The Asia eHealth Information Network (AeHIN), with the support of the Patrick J. McGovern Foundation, has organized a three day live training on FHIR R4 Proficiency Training/Exam Preparation for 40 participants from August 5 to 7, 2022.

The training was conducted by Health Level Seven (HL7) International for two hours each day, from 10 AM IST to 12 PM IST, with a total duration of six hours. The training outlined the FHIR principles, FHIR resource concepts, FHIR Rest API & Query, FHIR profiling & conformance, and also guidance on the format and coverage of the FHIR R(4) Proficiency Certification Exam.



List of Passers
(Who consented to publish their name)

- MAYANK AGARWAL, INDIA
- ALDILAS ACHMAD NURSETYO, INDONESIA
- KEVIN BILAVARN, LAO PDR
- ERWYN OOI CHIN WEI, MALAYSIA
- ZARNI LYNN KYAW, MYANMAR
- BINJI HUSSIEN C PANGAIBAT, PHILIPPINES
- JOVITA V. ARAGONA, PHILIPPINES
- MIKAEL NAZAL MATUNOG, PHILIPPINES
- CHAMIKA SENANAYAKE, SRI LANKA
- CHAMINDA WEERABADDANA, SRI LANKA
- PRABATH JAYATISSA, SRI LANKA
- SHAKIRA IRFAAN, SRI LANKA
- SONALI LUNUWILA, SRI LANKA
- NAT TANGCHITNOB, THAILAND
- NATDANAI THAIPIPAT, THAILAND
- RATCHATA UNLAMARN, THAILAND
- TEERAPAT SAENGTHONGPITAG, THAILAND
- THANAPHOP NA NAKHONPHANOM, THAILAND
- LAITON NAMUTEBI, UGANDA
- NGO TUAN, VIETNAM

Summary of Feedback

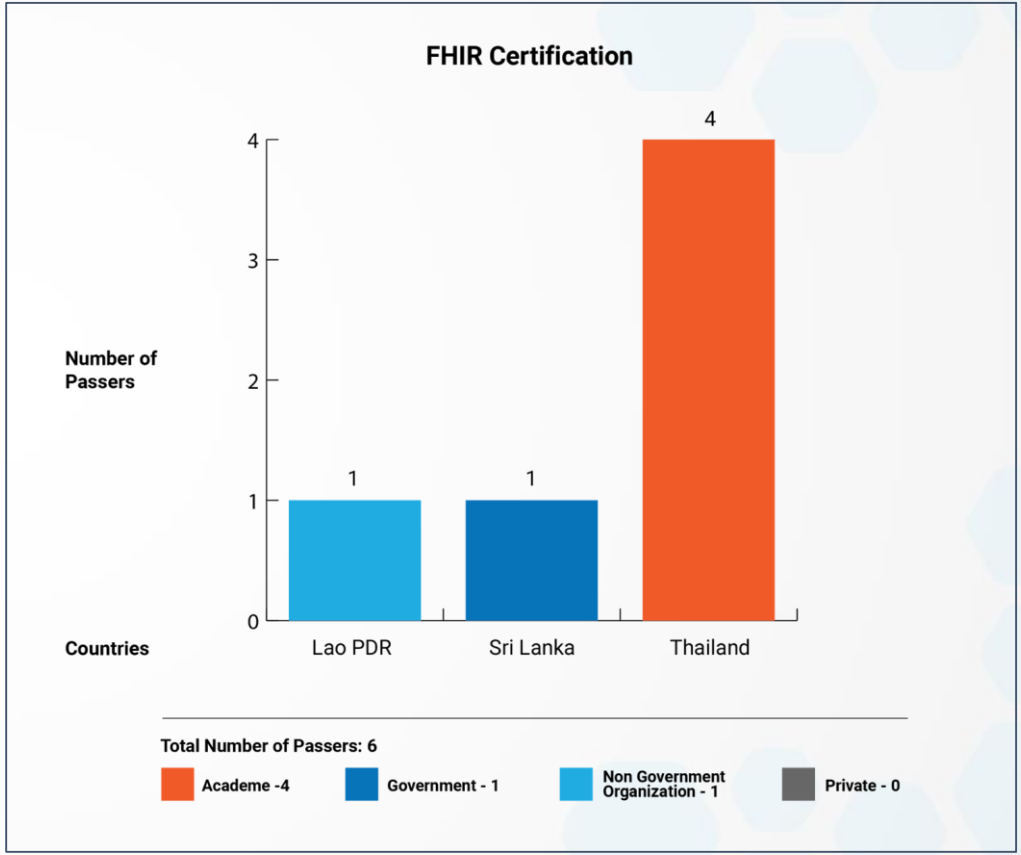
Positive: - Live learning with professional trainer from HL7, so the participant can interact with the trainer and the other participants from different country - A comprehensive overview for the preparation of HL7 FHIR R(4) Proficiency Certificate exam	**Needs Improvement:** - The course is very condensed, only 6 hours training which is too short
Recommendations and Other Comments: - Extending the training period - More focus on the real world implementation	

FHIR Certification

In this program, AeHIN supported the cost of HL7 FHIR (R4) Proficiency Certification (315 USD) via reimbursement process for those who participated in the **AeHIN FHIR (R4) Proficiency Training Program** on August 5-7, 2022. This serves to encourage the participants that they should **take part in increasing the capacity of healthcare interoperability within their country**, and thus, contribute in promoting interoperability in the region.

In line of developing a regional FHIR implementation guide, certificate passers created a draft one-pager action plan for a FHIR use case (interoperability project) in their respective countries:

- Standard and Interoperability Lab – Laos (SIL-LAO)
- Interoperability Project in Sri Lanka
- Current Usage of Clinical Terms in Real Practice in Thailand and Development of an Interface Terminology conformed to International Standards such as HL7 FHIR and SNOMED CT
- Developing a HL7 FHIR-based Interoperable Allergy Information Model in Thailand
- Health Informatics Exchange Zone for Suranaree University Hospital (SUTH)
- MyVax Personal Immunization Record



List of Passers (Who consented to publish their name)

- Natdanai Thaipipat, Thailand
- Thanaphop Na Nakhonphanom, Thailand
- Teerapat Saengthongpitak, Thailand
- Nat Tangchitnob, Thailand
- Shakira Irfan, Sri Lanka
- Kevin Bilavarn, Lao PDR

Summary of Feedback

Positive:	**Needs Improvement:**
- Learn more about the fundamentals in HL7 FHIR, can apply this knowledge for teaching program and real world implementation	- None

Recommendations and Other Comments:

- It would be interesting to have use cases of FHIR profiling process, country strategies and approaches about FHIR, integration of FHIR interface in legacy EMR systems, which would help understanding the bigger picture and how important FHIR is.

Testimonials:

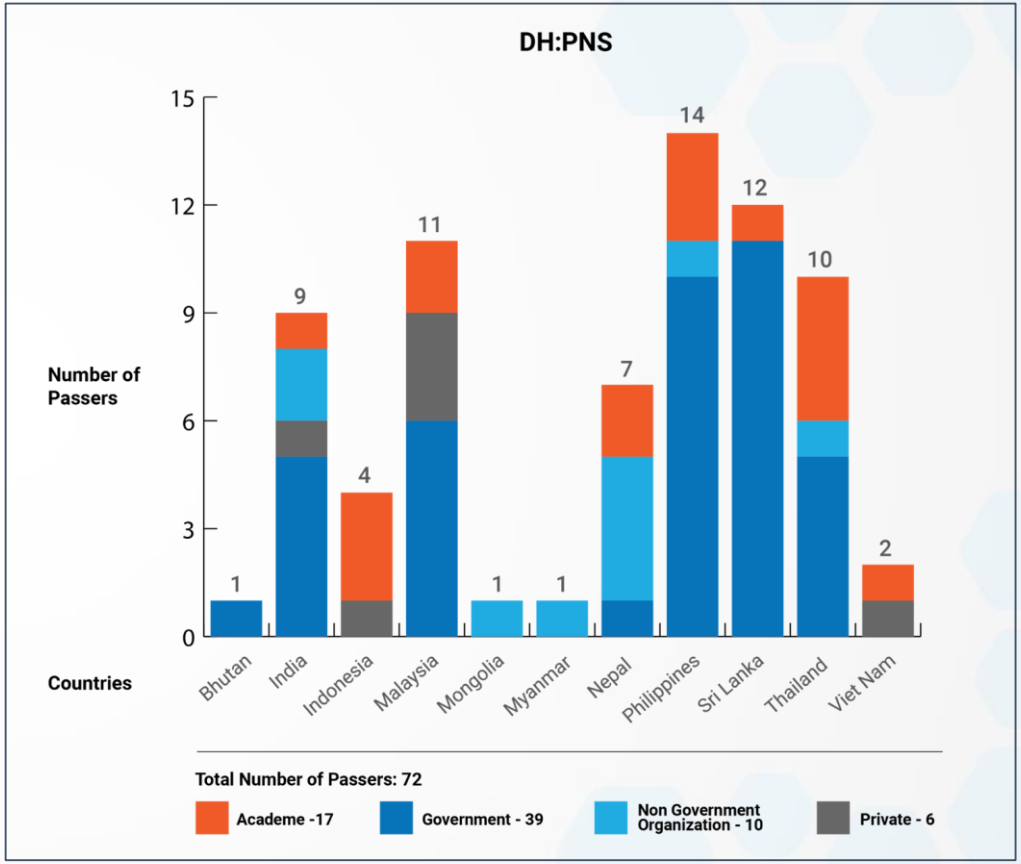
- "Awesome program to stimulate FHIR implementation" – TEERAPAT SAENGTHONGPITAG, THAILAND
- "Honored to be part of the FHIR community, thanks to AeHIN" - KEVIN BILAVARN, LAO PDR
- "The 3-day Exam preparation course and the Presentations were excellent guides. The support from AeHIN throughout the programme was simply great!" - DR SHAKIRA IRFAAN, SRI LANKA
- "Great supports from the staffs. Great program for studying and earning FHIR certificate. I'm very thankful" - NAT TANGCHITNOB, THAILAND
- “Thanks for the great support from AeHIN! The successful completion of the HL7 FHIR R4 Proficiency Exam enables me to contribute to health information exchange in Thailand” - THANAPHOP NA NAKHONPHANOM, THAILAND
- "It was a really informative and useful program; I clearly understand about the FHIR resource concepts and how to exchange them." - NATDANAI THAIPIPAT, THAILAND

DHPNS Course

A blended version (live sessions for activities and offline self-paced reading) for **Digital Health: Planning National Systems** was conducted from 19th Sept 2022 - 8th Dec 2022. Live sessions on every Wednesday and Thursdays.

The course was conducted by TechChange and curriculum was developed by USAID, Digital Square, TechChange, and Last Mile Health based on content compiled by the World Health Organization (WHO) and the International Telecommunications Union (ITU). It features critical technical concepts, existing best practices, and pragmatic methods, all framed according to the national planning cycle that Ministry of Health officials manage.

A total of 97 participants joined the AeHIN cohort from 13 countries and at the end, we have 72 passers (11 countries). A community of practice was launched on 24th January 2023.



Final Project Titles

Country group	Final Project Title
India/Myanmar (Group A)	Healthcare Workers at Community Level: Digital Intervention Programme for NCD
Thailand (Group A)	Enabling Health Information Exchange: Costing Digital Health Interventions
Malaysia (Group A)	Improving Referral System in Public Healthcare Facilities: Digital Health Intervention
Nepal/Indonesia (Group A)	Digital Health Intervention
Philippines/ Bhutan (Group A)	Interoperability and Improving the Nation's Health Statistical System
Sri Lanka (Group A)	Digital Health Intervention Implementation
Malaysia (Group B)	Making Digital Health Apps Interoperable
Philippines (Group B)	Improving Patient Visits in Philippine Clinics: Digital Health Intervention Implementation
Sri Lanka/Viet Nam (Group B)	Improving Supply Chain Management: Digital Health Intervention (OpenLMIS) Implementation
India (Group B)	Ayushman Bharat Digital Mission (ABDM)
Nepal (Group B)	Digital Health Intervention Implementation
Thailand (Group B)	The New EMR for a Community Hospital

Summary of Feedback

Positive:	Needs Improvement:
- Well structured course and great facilitation - Interactive course - Good programs and should be promoted for government officials	- More practical examples - Include more topics - Opportunity for in-person meeting to have more connection - Challenges in group discussion, especially with different time zones
Recommendations and Other Comments: - Useful course for people who are interested with digital health	
Testimonials: - At first I was very hesitant since I was a non-medical staff. I am a Programmer for the Department of Health. But the course was very intuitive and I was able to learn a lot. I learned a lot more than what I expected. ~Julius Castro - This course was very eye opening. It breaks down the concept of digital health into sizeable pieces to better shed light on the roots of the problem. Namely, interoperability. We are then taught to build back a more interoperable, and sustainable health system model using the various concepts. All in all, I have gained a new perspective on understanding a health system. ~Jonas John	

OpenHIE Academy's Foundations in Health Information Exchange Certification Exam (AeHIN cohort 2023)

All of the courses and materials to prepare for the certification exam are **completely free** through OpenHIE Academy.

AeHIN will support individuals with the cost of taking this OpenHIE certification exam (39 USD). Please read the FAQs before taking the certification exam.

WHO ARE ELIGIBLE?

- Must be an AeHIN Member (Not a member? Join here.)
- Members and volunteers of the AeHIN Community of Interoperability Labs will be given priority

MECHANICS

1. Eligible applicants must fill in their application form through this link on or before **April 17, 2023 (5:00 PM MANILA TIME).**
2. Applications will be reviewed by the AeHIN Governing Committee and AeHIN Working Council.
3. Applicants will be notified of their status via email with the steps for registration.
4. For the selected applicants, the links and instructions regarding the login process will be sent via email. Participants should complete the course **WITHIN FOUR WEEKS UPON RECEIPT OF THEIR ACCEPTANCE EMAIL**. Successful participants should send their certificate of completion for the course to secretariat.malaysia@aehin.net.

For questions, please email secretariat.malaysia@aehin.net.

AeHIN Convergence Workshops

An MOH-led event to gather support from public and private sector stakeholders behind the National eHealth Strategy

- Other ministries (finance, social security, ICT, economic, etc)
- Development partners (WHO, ADB, UNICEF, GIZ)
- Non-government organizations (professional societies, organized industry groups, etc)
- Private sector (companies offering goods and services) (optional)

How AeHIN can help:

- Design the programme
- Share templates
- Invite resource persons
- Facilitate sessions in actual workshop

Convergence Workshop Outputs

(from previous workshops)

- Agree on an MOH-led multi-sectoral **governance structure**
- Agree on a **digital health blueprint** and transition roadmap
- Agree on regular coordination of eHealth-related **program management** activities
- Agree on **standards**

AeHIN Convergence Workshops

- 2015 August 19-20, Myanmar
- 2016 June 21-23 in Paro, Bhutan
- 2016 November, Indonesia
- 2017 February 15-17, Hanoi, Vietnam
- 2017 April, Dili, Timor Leste
- 2017 July 24-27, Kathmandu, Nepal
- 2019 October 28-29 in Thimphu, Bhutan
- 2021 March 30-31, Lao PDR (Virtual)
- 2022 December 22-23, Colombo, Sri Lanka
- 2023 January 24, Jakarta, Indonesia
- 2023 January 30, Vientiane Capital, Lao PDR

AeHIN General Meetings (2012-2022)

- **2012 Asia eHealth Information Network Launch Workshop** (7-10 August 2012 at United Nations Conference Center, Bangkok, Thailand)
- **2nd AeHIN General Meeting** (23-24 September 2013 at Pan Pacific Manila Hotel, Philippines)
- **Conference on Measuring and Achieving Universal Health Coverage using ICTs in Asia and the Pacific and 3rd AeHIN General Meeting – From Strategy to Implementation** (2-5 December 2014 at Asian Development Bank, Manila, Philippines)
- **Conference of Measurement and Accountability for Universal Health Coverage in the Asia Pacific and AeHIN 4th General Meeting** (26-30 October 2015 at Padma Resort Legian, Bali, Indonesia)
- **Digital Health Conference in the Asia-Pacific and 5th AeHIN General Meeting** (6-10 March 2017 at Horizon Lakeview Hotel, Nay Pyi Taw, Myanmar)
- **6th AeHIN General Meeting and Conference on Interoperable Digital Health for Universal Health Coverage** (7-9 October 2018 at Cinnamon Grand Hotel, Colombo, Sri Lanka)
- **Strengthening Regional Health Systems Response to COVID-19: Digital Health Experiences in Asia** (7, 14, 21, 28 January 2021 via Zoom/GM website)
- **AeHIN General Meeting and Conference 2022 Accelerating Digital Health Towards Universal Health Coverage** (10-12 October 2022 at Ascott Makati, Manila, Philippines)

AeHIN Hour

- Regional webinars held at present: 288
- 8,437 attendees (cumulative, not unique)

- Includes webinars and roundtable discussions with Ministry of Health in countries, and organizations such as International Planned Parenthood Federation (IPPF), Transform Health Association, Novartis Foundation, and WHO.

Contact Us

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aehin.org