



Asia Pacific Electronic Health Records Conference

APeHRC - eHR and Beyond

2016

Smart Connected HealthCare

Caring for Every Child Through
Digital Health

Science Park, Hong Kong

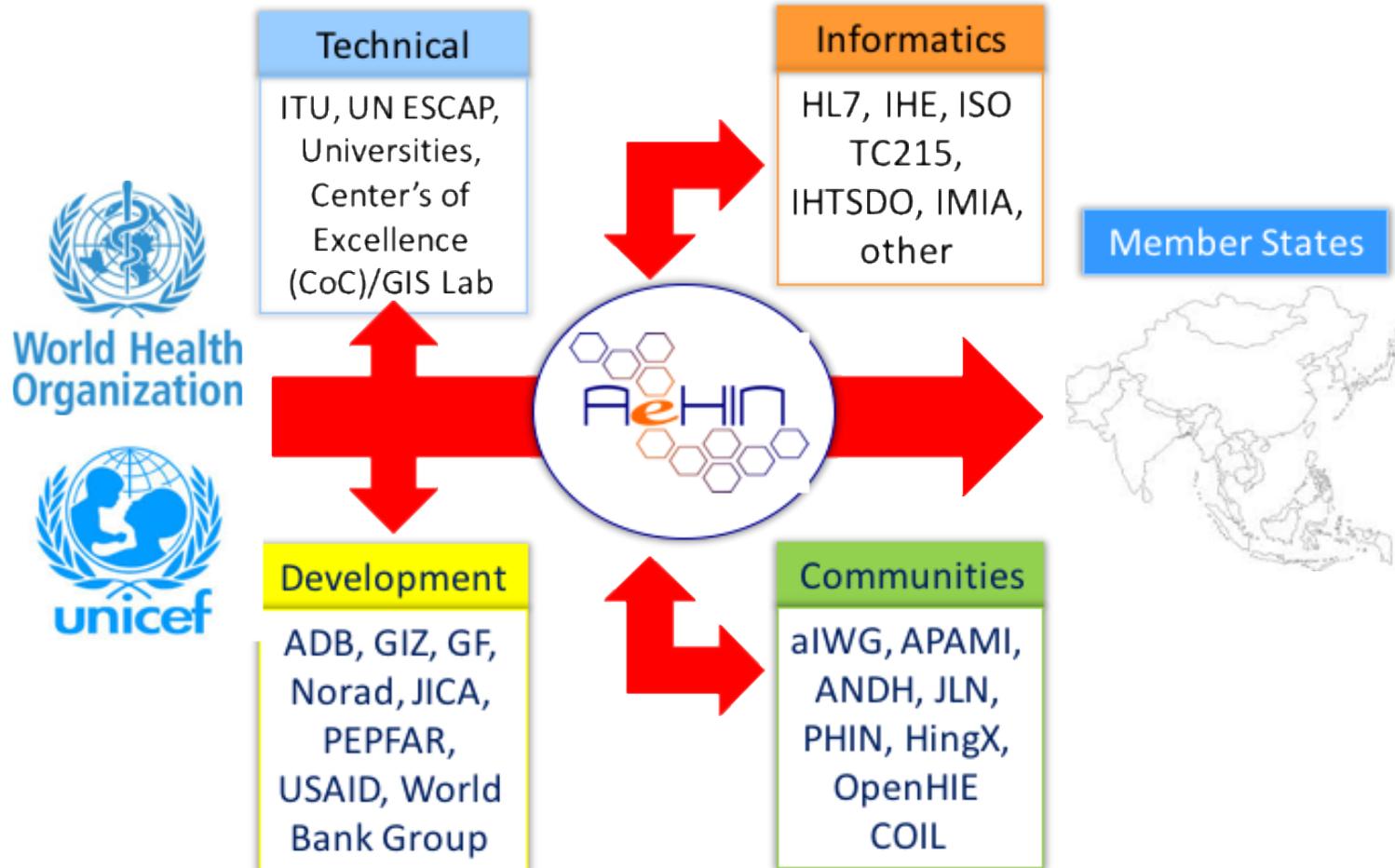
July 06, 2016

Caring for Every Child Through Digital Health Outline

- Maximizing investments in *Digital Health* through **Teaming, Training, Tooling** and **Testing**
 - Asia eHealth Information Network (AeHIN)
 - Regional Enterprise Architecture Council for Health
 - Centers of Excellence
 - ✓ Interoperability Lab
 - ✓ GIS Lab
- Addressing Health System Inefficiencies
- Reaching the hardest to reach
 - UNICEF-Tsinghua University Innovation Lab
 - Designing and facilitating individual and institutional behavior change for adolescent health – a focus risk, prevention and expanded service delivery

Asia eHealth Information Network (AeHIN)

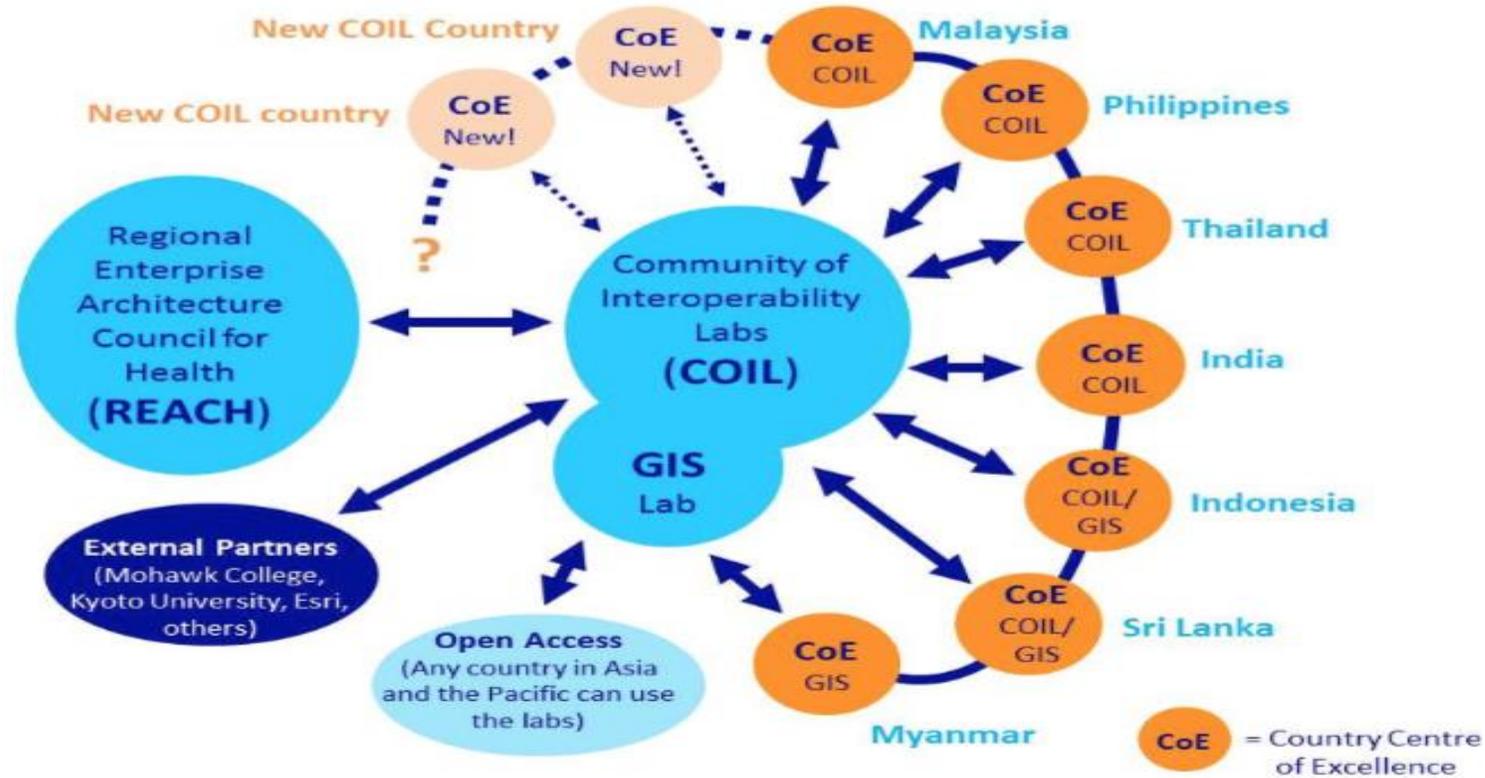
Regional Approach to Country Impacts



- **Build capacity** for eHealth, Health Information Systems, GIS and Civil Registration and Vital Statistics (CRVS)
- **Increase peer assistance** and knowledge exchange and **sharing** through effective networking
- Promote **standards and interoperability** within and across countries
- Enhance **leadership and sustainable governance**, and monitoring and evaluation

AeHIN - Centers of Excellence

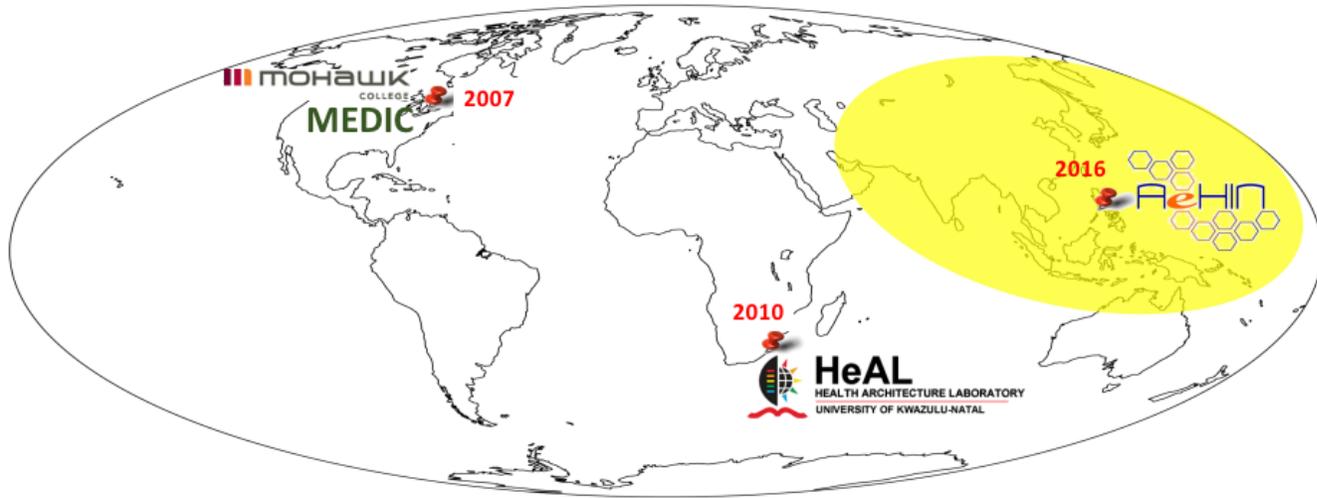
Enhance leadership and sustainable governance, and monitoring and evaluation



Teaming – Training – Tooling - Testing



AeHIN : Community of Interoperability Labs - COLL



- Promote **standards and interoperability**
- collaborates closely with similar labs that have already been established in South Africa (HEAL) and in Canada (MoHawk College Medic Lab)
- Geographic scope of CoIL is the Asia and Pacific Region

Why is the COIL such an important regional public good?

In supporting the 4Ts: **teaming**, **teaching**, the development and release of **tooling**, and finally interoperability conformance and load **testing**.....

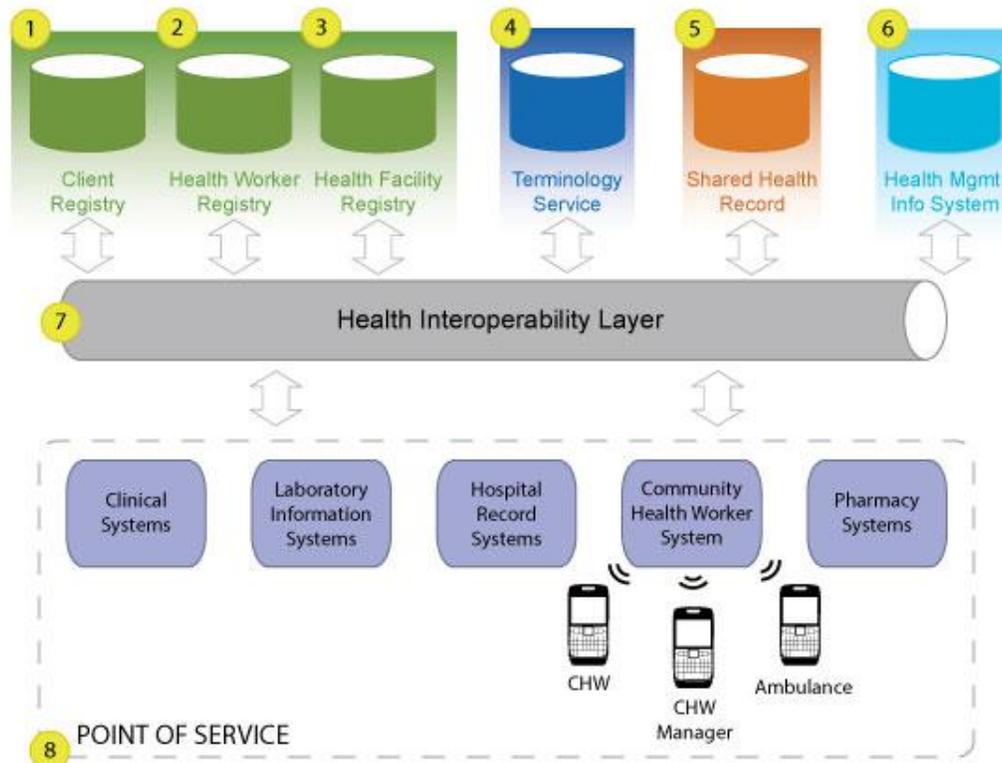
COIL's services.....

- **mitigate investment risk** on national digital health infrastructure implementation
- build health ICT capacity in the region while **catalyzing and nurturing innovation** in both public and private sector partners
- provide technical resources to engineer and deliver “**reusable**” digital health solutions to Care for Every Child



Caring for Every Child Through Digital Health - “reusable solutions”

Open Health Information Exchange Implementation Package - (Distro)

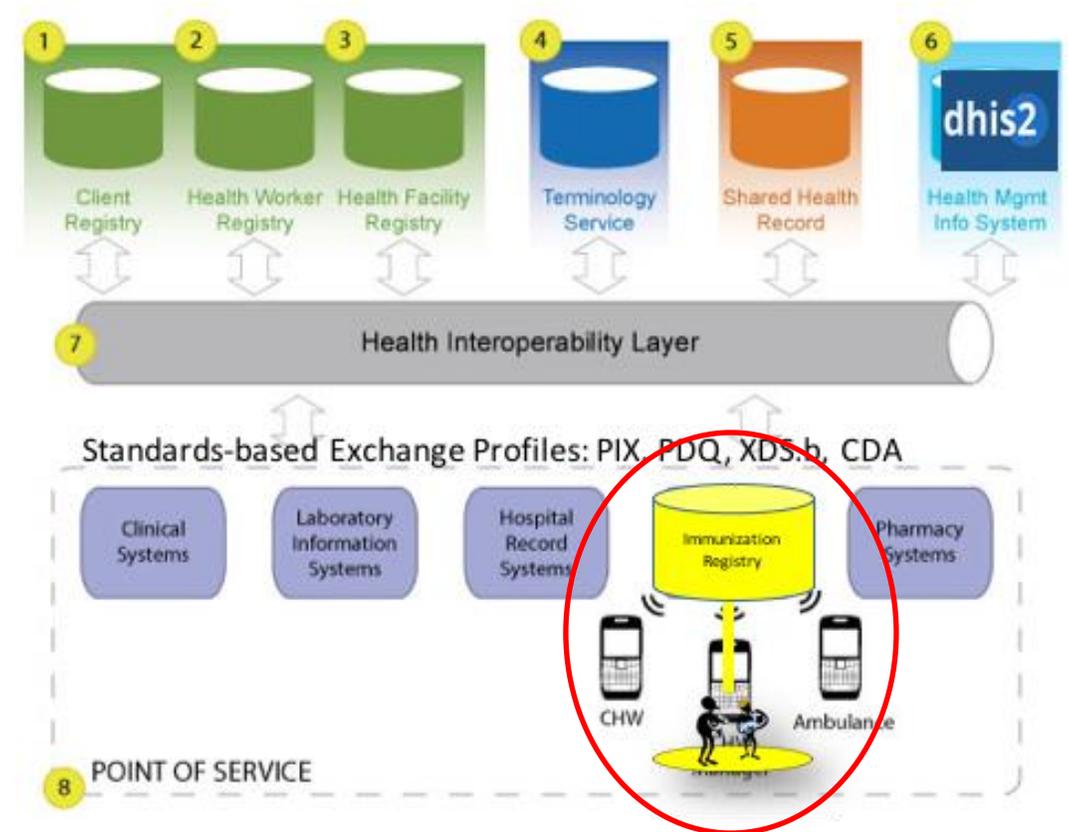


- Providing the foundation for connectivity, identity management and information sharing to fast track the scale-up of electronic health records and digital health solutions
- developing “Core” bundle for the Distro that can be “lighted up” as needed
- Identifying and engaging public and private sector *Teaming* partners

Caring for Every Child Through Digital Health - “reusable solutions”

Immunization Registry Deployment Kit

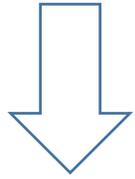
- Ideally children receive their first immunization at birth which provides the perfect opportunity to uniquely identify each child and begin to digitally capture their health story
- Immunization registry also includes important child immunization scheduling and vaccine inventory management features that provide a strong business case related to immunization supply chain management



Courtesy of  OpenHIE

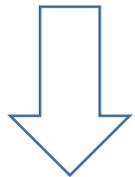
Immunization Registry Deployment Kit

Stock-outs



ZERO

Vaccine Inventory



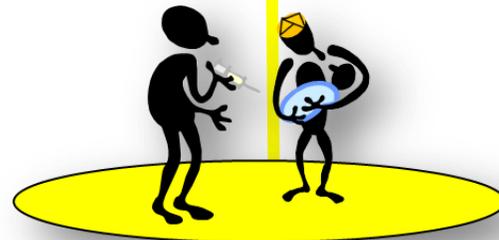
>30% reduction



Open**HIE**

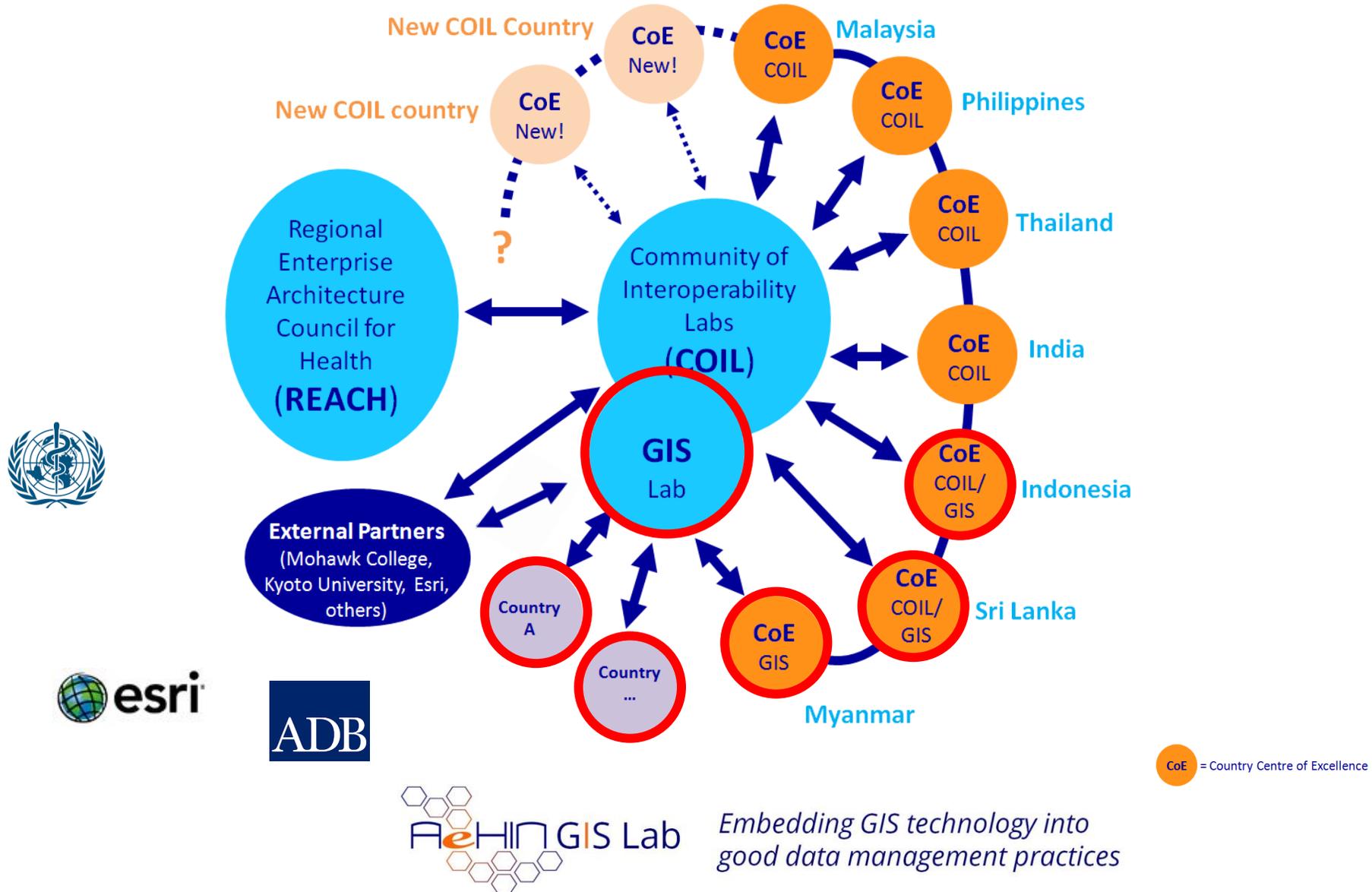


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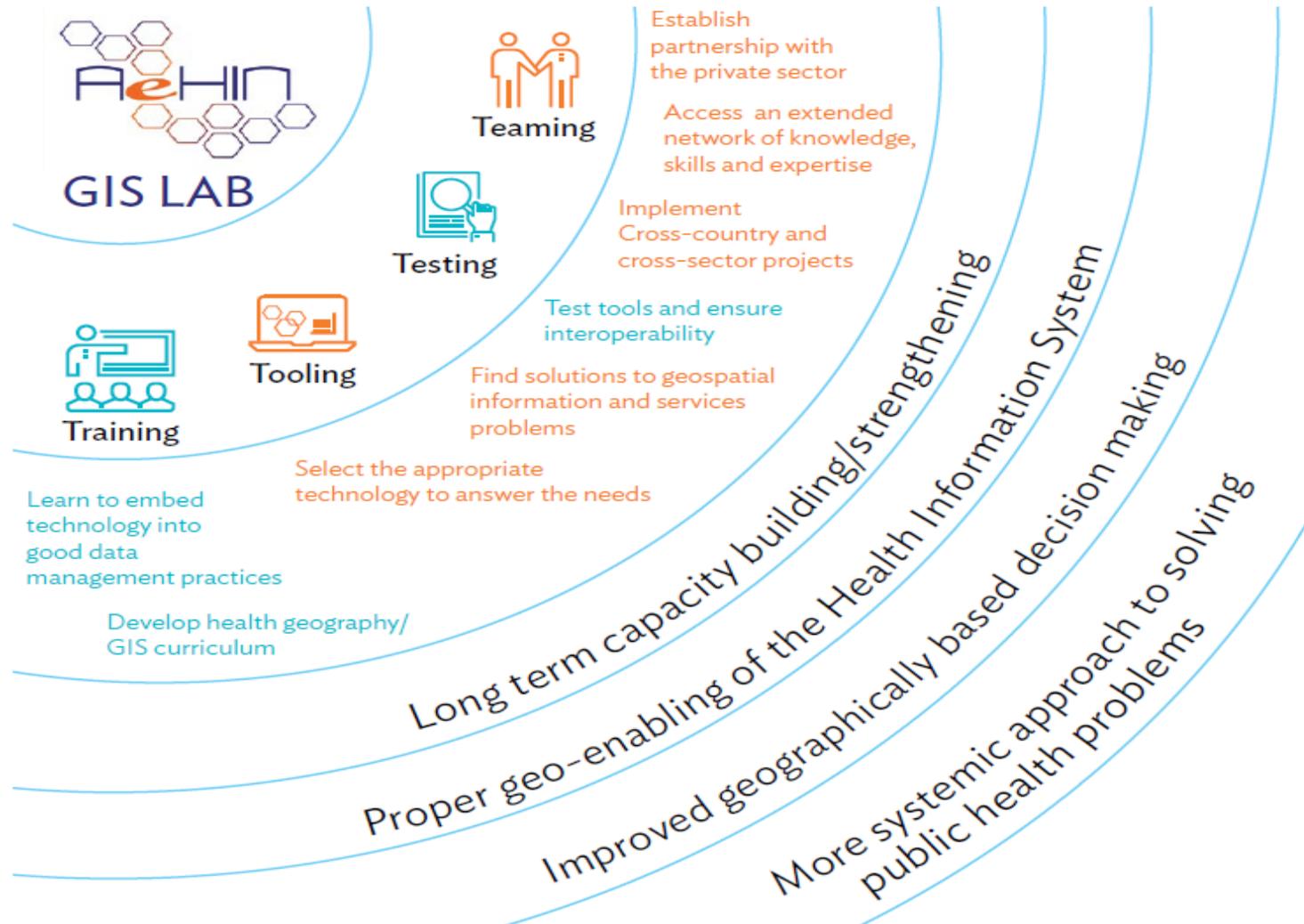


- Early results indicate that the inventory management efficiencies alone could financially support and sustain an implementation
- Immunization Registry Deployment Bundle includes software, hardware, deployment tools, capacity building and training resources to reach National scale
- Identifying public and private sector *Teaming* partners

Caring for Every Child Through Digital Health - AeHIN : GIS Lab



Caring for Every Child Through Digital Health - AeHIN : GIS Lab

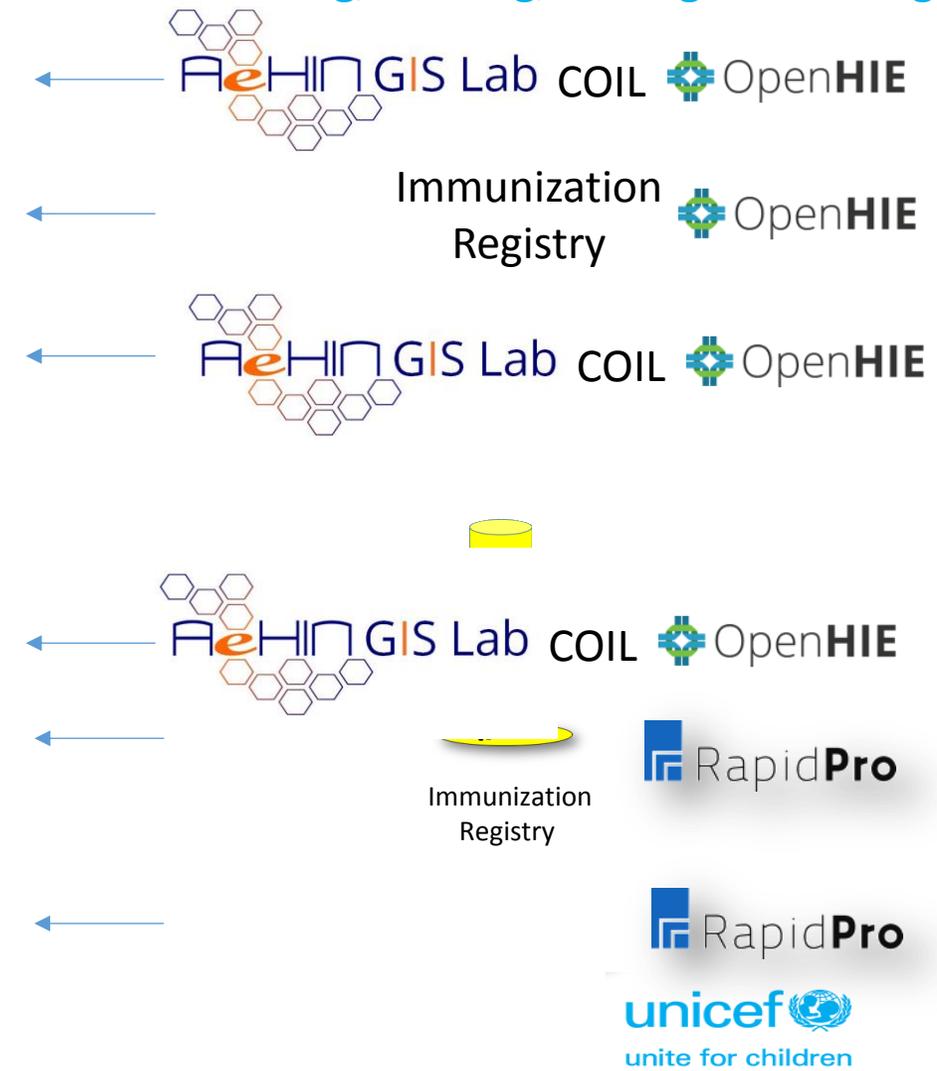


Main driver: Universal Health Coverage (UHC)

Caring for Every Child Through Digital Health Addressing Health System Inefficiencies

Health Systems Domains	Inefficiencies	eHealth Solutions
 Health workforce	Inequitable distribution	Human resources for health information system
	Inappropriate or costly staff mix	Use of geographic information systems for targeting services
 Essential medicines	Irrational use of drugs	Logistics management information system
	Counterfeit drugs	Counterfeit drug detection systems
 Healthcare service delivery	Inappropriate hospital admissions	Web-based access to shared electronic health records
	Over-use of procedures, investigations, and equipment	Clinical decision support tools
 Health system leakages	Corruption	Hospital and insurance digital payments Financial management information systems
	Fraud	Radio-frequency identification-based supply chain and logistics
 Patient monitoring and community health	Drug nonadherence	Shared electronic health records
	Underserved populations	Telemedicine
	Missed appointments	Mobile health applications, including mobile phone-based reminder systems, integrated patient ID registries, rapid reporting forms and referrals
 Disease surveillance and population health	Delayed and unreliable data for decision making	Rapid case detection and communications applications Health issues monitoring dashboards

AeHIN - Teaming, Training, Tooling and Testing





Caring for Every Child



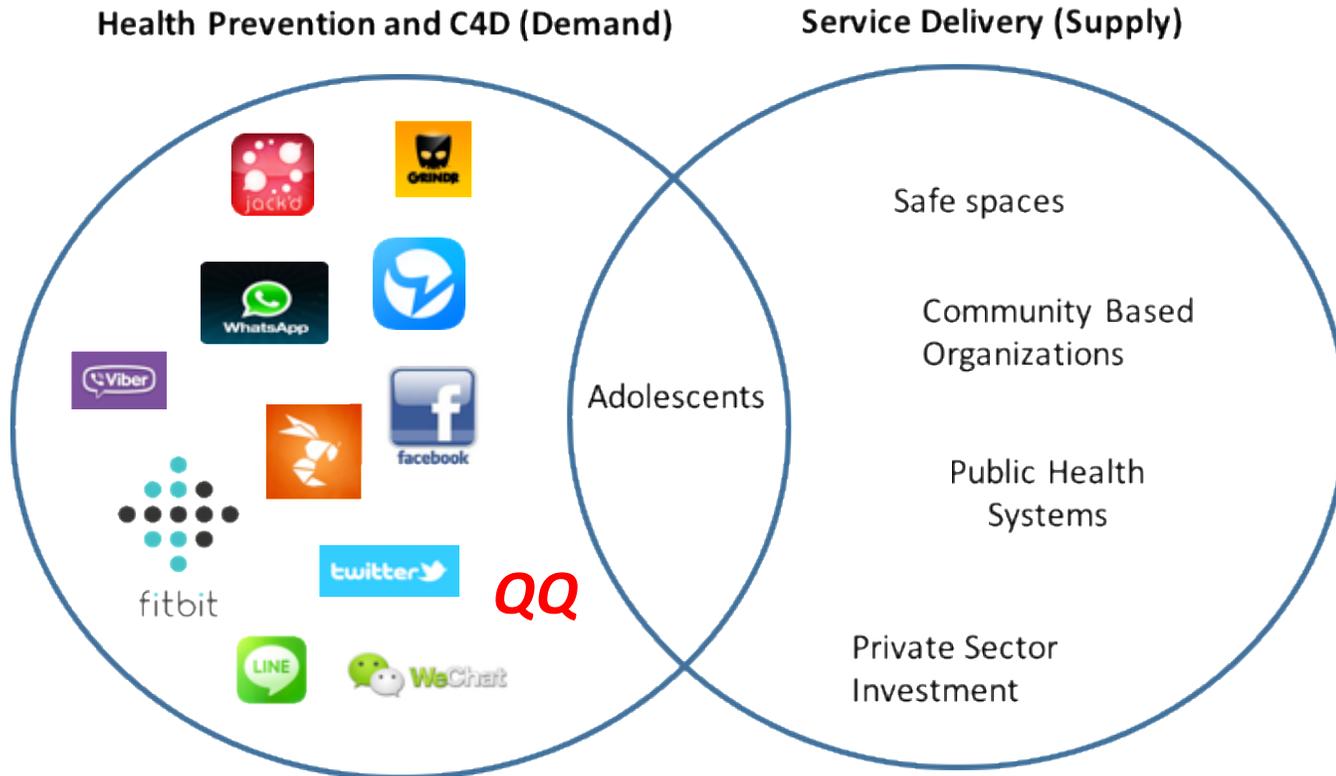
Caring for Every Child with Digital Health



UNICEF-Tsinghua University Innovation Lab

- a platform for exchange on technological innovation including digital health for children
 - Internet of Things
 - Wearables
 - Big Data
 - Hack-a-Thons
- new innovations for children being developed and designed by students targeting the hardest to reach communities and populations

Caring for Every Child Through Digital Health Targeting Risk, Prevention and Expanding Services for Adolescents



Create and manage the Network Effect



In Conclusion

We look forward to continued learning from you..... and we hope to forge new partnerships with many of you to bring better care to every child through digital health.....



THANK YOU

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