Creating Patient-Centric Identity Management Solutions

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Outline

- Activities and output under RECAP (Results for Malaria Elimination and Control of Communicable Disease Threats in Asia and the Pacific)
- General findings from the ID mapping exercises
- **Methodology** of the ID mapping exercise
- Scenarios for setting up a National Health ID
- Leapfrogging to the latest digital health technology
- IT Infrastructure and **disaster respond**
- Linkage between digital health and **eGovernment**



What has been done under the RECAP Project?



Country visits for stock taking Cambodia, Laos, Myanmar





RECAP

KNOWLEDGE PRODUCTS



- Policy Brief on Health IDs
- Unique Health Identifier Mapping Toolkit
- Experiences from setting up OpenHIE products
- Draft brief on Unique Health Identifier Scenarios
- Terminology Booklet for eHealth (Khmer, Vietnamese, English)
- Digital Health Investment paper + tool









Investment in Identity Systems

Digital technology can improve patient centric care



IDs allow the provision of the right health service to the right patient in a short time. It can lead to:

- less waiting time
- no double payments
- fast reimbursements
- less treatment errors
- enables patient engagement via mobile apps



Stock taking of existing Identification Mechanisms in different countries

Findings from our work for better interoperability





You know it

NAIVELY CONFIDENT

You think you know, but still don't know what you don't know

eHealth is complex

Governments need to define their national eHealth goals



Health Information (\$ystem), 2016 (Ministry of Health)

Identification Silos - Laos



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Data sharing is a sensitive topic

Health care providers are not necessarily interested in data sharing beyond their own institutions



eHealth is complex

Governments need to define their national eHealth goals

You know it

Health Identifier is needed

Unique health ID required to better connect the health sector

Limitation of Open Source

OS products are innovative but rarely used on national scale

Findings from the UNIQUE HEALTH ID ASSESSMENTS



Data entry is **done for government** reporting requirements

Mapping of existing Identification Mechanisms in different countries

Methodology





Data Silos – Identification Silos

Multiple Health IDs **not linked** to a master patient index or national health client registry



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Centralized vs. de-centralized identification management

Features	Centralized	De-Centralized
Scaling	Easy to scale up	Slow to deploy
Costs	Eliminate redundant costs	Higher project costs
Data definitions	Con KOREA finitions	Less LAOS o local needs
Maintenance	Easy to maintain	Often ignored
Implementation skills	Less intensive to implement	Effort intensive
	changes	
Change Management	Lea THAILAND	Data VIETNAM ation
	top as an approach	owners are change agents at
		grassroots
Access and	Lies y internet team,	Dependent on the governance
Management	Ven INDIA hip easy to	
	maintain	
Control	Cen ⁺	Decentralized control if using
	infr TAIWAN	distributed data systems

Country examples are referring to the updating procedure of demographic data (the system architecture can be based on various server clusters across a country)

Let's take a closer look to Vietnam...







A person can easily receive <u>two National Id cards</u> if he moves from one province to another

It is also theoretically possible to have <u>two passports at the same time</u> using different IDs from different provinces.

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Using the national ID is not a perfect solution for patient identification



Using a vertical disease ID is not a perfect solution for patient identification

Vietnam...the way forward



Thailand

Digitizing over 60 million records from paper

CENTRAL POPULATION DATABASE

But why not `waiting for the National ID Number?

111

Country Example: Thailand



HEALTH SYSTEM STAKEHOLDERS

Mandatory use of National Citizen ID



Multi purpose card:

- 1. Personal ID
- 2. Fingerprints
- 3. Tax
- 4. Social welfare
- 5. Social security numbers
- 6. Agricultural data
- 7. Healthcare data



13 digit number generated at time of birth . ID card when they reach the age of 7.

Attention Considerations in **Tonga** DHIS2 is primarily a data collection tool Reporting dhis2 **HEALTH SERVICE PLATFORM** National **Health Client** Registry Unique Health ID Using the DHIS2 primary key as the unique health ID

Considerations in Cambodia



Current situation in Malaysia



eHealth and eGovernment



Maturity of ICT solutions





Countries are at different ICT maturity levels





Leapfrogging to the latest digital health technology

Trying to implement innovative solutions without having the basic infrastructure in place

Not having **legal frameworks in place** which ensure data/privacy protection

Adding data silos instead of consolidating, linking and harmonizing data and small-scale projects





Develop a legal environment for the new VN Social Security Number

Supporting the development of EMRs



Is it mandatory to use the VSS Number?

Who has the authority to update patient data?



Should the new ID support the idea of paperless medical records?

Are biometrics collected?



RECAP

Strengthen prevention and response to communicable diseases



IT infrastructure can speed-up disaster respond time..



IT infrastructure can speed-up disaster respond time..



Investment opportunities

CAPACITY BUILDING

DHIS2 Training HL7 FHIR Training Business Process Design Organizational change Policy design and implementation

HEALTH FINANCING

IT for national health insurance schemes Linking EMRs with health insurance purpose



GOVERNMENT INFRASTRUCTURE

Network Data center Population Registry Health Registries

POLICY & PROCESSES

eHealth Strategy Design Business Process mapping Policy advise Thank you