The Open Health Information Exchange (OpenHIE) Community: A broad, multi-stakeholder community supporting interoperable health information structures

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Rwanda HIE …Why?

Health Sector Strategic Plan

July 2009 – June 2012

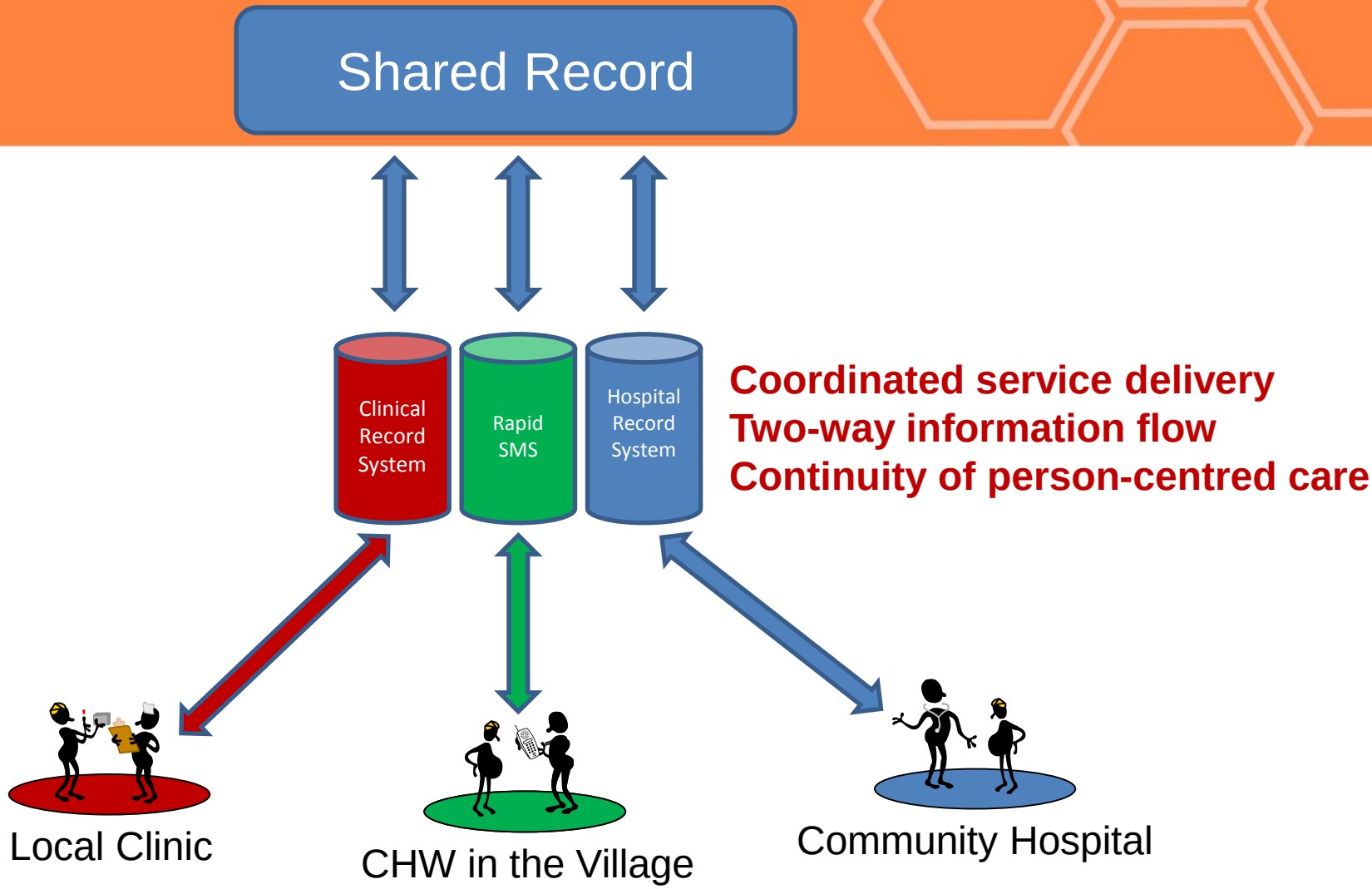
3.2. Strategic objectives

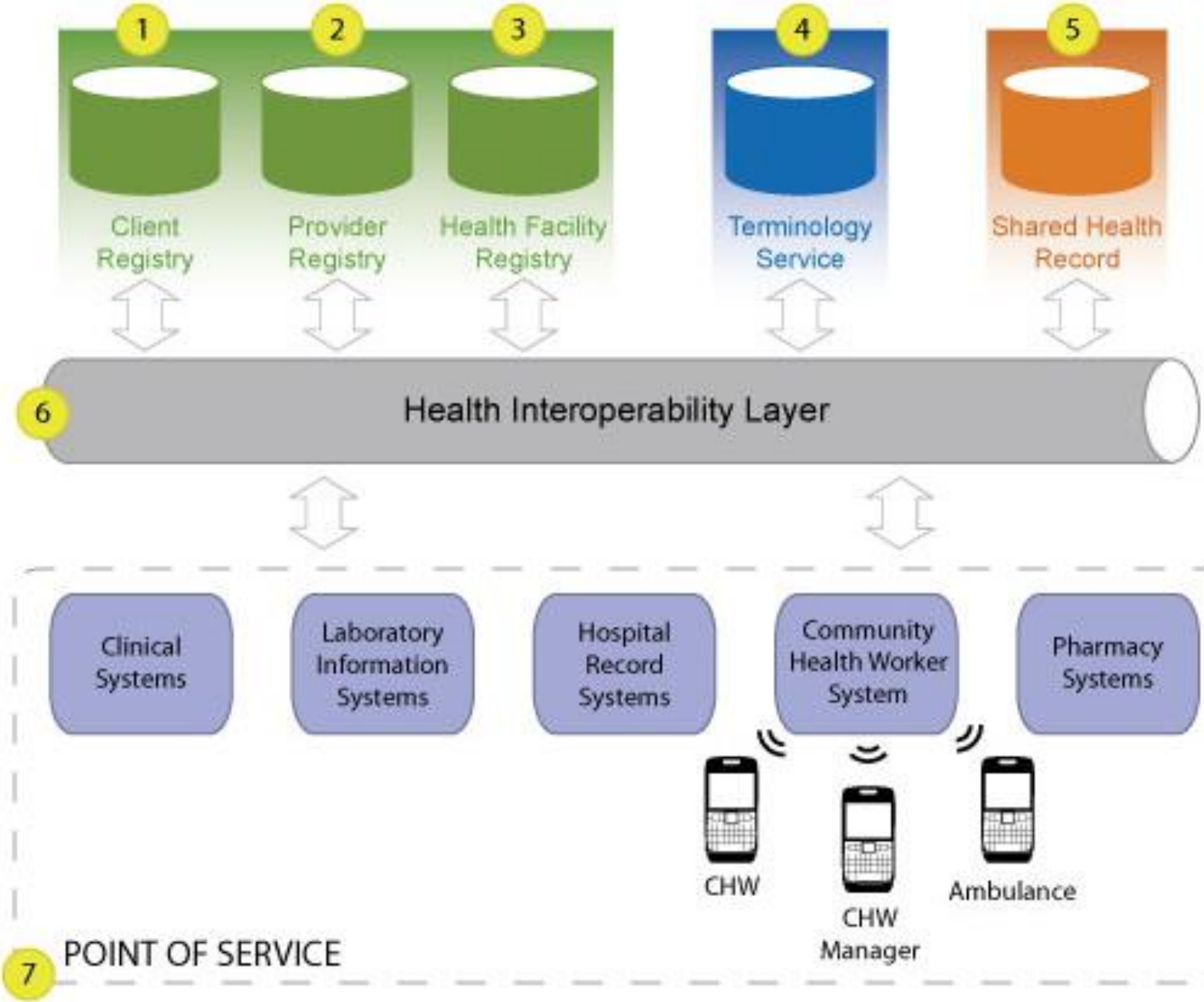
3.2.1 To improve accessibility to, quality of and demand for MCH/FP/RH/Nutrition services

The average Maternal Mortality Ratio (MMR) during the 5 years before 2000 stood at 1071 per 100,000 live births (DHS 2000 which had decreased to 750 for the 5 years preceding 2005 (DHS 2005). Despite the decrease, maternal mortality is still high and is not predicted to meet the target in Vision 2020 of 200 per 100,000. In 2005 over 3,800 (over 70%) deliveries occurred outside a health

Government of Rwanda

Ministry of Health


Shared Record
Clinical Record System
Rapid SMS
Hospital Record System
Coordinated service delivery
Two-way information flow
Continuity of person-centred care
Local Clinic
CHW in the Village
Community Hospital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Client Registry
Provider Registry
Health Facility Registry
Terminology Service
Shared Health Record
6
Health Interoperability Layer
Clinical Systems
Laboratory Information Systems
Hospital Record Systems
Community Health Worker System
Pharmacy Systems
CHW
CHW Manager
Ambulance
7
POINT OF SERVICE

Client Registry

- An enterprise master patient index (EMPI), or ***Client Registry*** manages the unique identity of citizens receiving health services with the country – “For whom”

Provider Registry

- A ***Provider Registry*** is the central authority for maintaining the unique identities of health providers within the country – “By whom”

Facility Registry

- A ***Health Facility Registry*** serves as a central authority to uniquely identify all places where health services are administered within the country – “Where?”

Terminology Service

- A ***Terminology Service*** 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 – “What?”

Shared Health Record

- A ***Shared Health Record*** (SHR) is a repository containing the normalized version of content created within the community, after being validated against each of the previous registries. It is a collection of person-centric records for patients with information in the exchange.

Health Interoperability Layer

- A ***Health Interoperability Layer*** receives all communications from point of service applications and orchestrates message processing between the point of service application and the hosted infrastructure elements.

Rwanda – October 2012 (Pilot)

CENTRE DE SANTE
MUSHA
USAID
TWUBAKANE

OpenHIE

"Our mission is to improve the health of the underserved through the open, collaborative development and support of country driven, large scale health information sharing architectures."

OpenHIE

http://ohie.org

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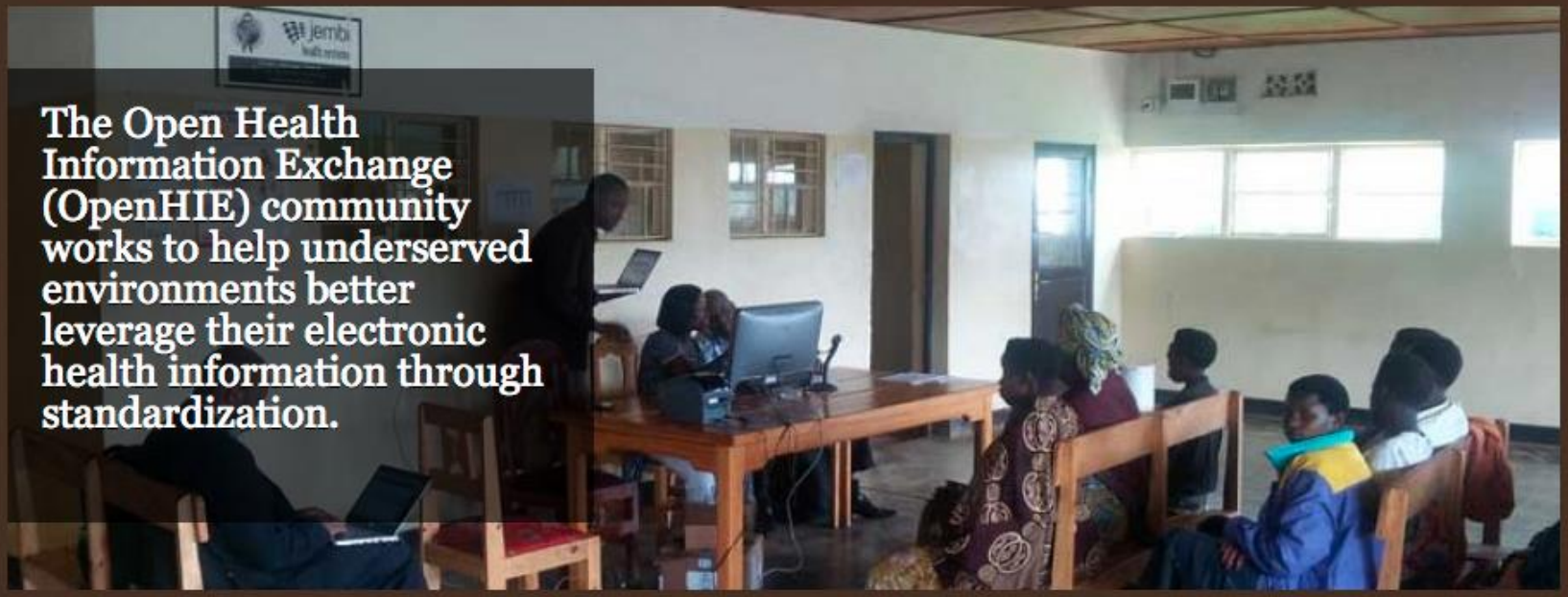

The Problem

Health systems depend on many types of information related to patients, health care providers, health centers, and health conditions. This vital information

Our Solution

We understand that all countries wrestle with their ability to access consistent, high quality health information. That is why we are determined to bring current and

Our Approach

Open source. The power of the open source approach fosters collaboration, interoperability and long term sustainability while controlling costs; this cannot be

Questions?

OpenHIE

http://ohie.org