Electronic Community Health Information System (eCHIS)

Capacity Strengthening Workshop for Civil Society Organizations'

Kisumu, Kenya

Date 25th September, 2025

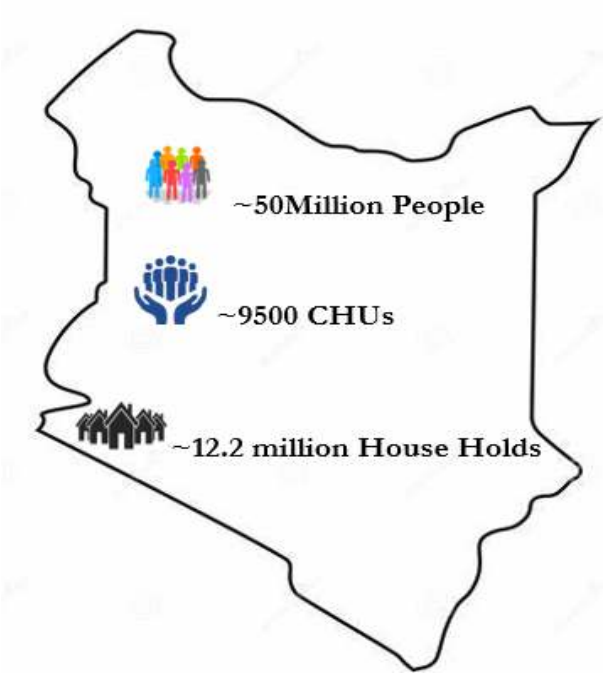
Outline

- Overview and Rationale for eCHIS
- Legal and Policy Context for eCHIS
- eCHIS Implementation Roadmap
- Status Update
- Emerging Issues
- Recommendation

coregroup | SGSI
SMALL GRANTS FOR SCALED IMPACT

Community Health in Kenya

Aim: Creating demand for health services by improving community awareness & positive health Seeking behaviours



Community Health Services

A Community Health Unit (CHU)

Population covered	**~5,000**
No of CHPs	~10
Households covered	**~1,000**
No of CHAs	**1**
No of HHs per CHP	**~100**
-No of CHCs	**5-7**

Community health workforce includes;

CHPs - 107,831 (70% Female)

CHUs Coverage - 10,350 (98%)

CHAs/CHOs - 4600 (47%)



What is eCHIS ?

A digital solution that supports delivery of quality community health services by providing client management decision support,

Strategic objectives for eCHIS adoption

→To provide standardized quality of community health services occasioned by defined workflows according to relevant national guidelines

→To improve capacity of community health workforce to generate and use quality community health data

→To improve monitoring and evaluation of key community health performance indicators (KPIs) - dashboards

Functions of eCHIS

e-CHIS serves three main functions;

- **Transactional** i.e. using eCHIS to conduct day-to-day activities of community health service delivery
- **Reporting** i.e. using eCHIS to generate *case based reports* to support quality assurance activities and *aggregate reports* for program monitoring and evaluation
- **System administration** i.e. using eCHIS to manage organizational hierarchies and users

eCHIS features overview

Community Level

- **Household Enrolment**
- **Service Delivery** — MoH Tools: MoH standards
- **Client Referral**
- **Community based Surveillance** — CHW
- **Commodity Management**
- **Messaging** — Follow Ups, Immunization, Referral
- **Data Visualization** — Real time dashboards for informed decision making; targets, KPIs

Sub National Level (County / Sub-County, Health Facility)

- **Supportive Supervision** — Mentorship & Coaching
- **Performance Mgt.** — Monitor health indicators, CHW+CHEW KPIs
- **Community based Surveillance** — HH, CHEW
- **Data Validation** — QA/QC Checks
- **Messaging** — Follow Ups, Immunization, Referral
- **Data Visualization** — CU Activation, HH Mapping, Commodity Mgt, ...

National Level

- **Integration in National Framework** — DHIS2,NIIMS, EMR...
- **Performance Mgt.** — Monitor health indicators, CHW+CHEW KPIs
- **Community based Surveillance** — HH
- **Data Visualization** — Leadership & Governance, HR, Financing

eCHIS Implementation Process

6: Monitoring and Support

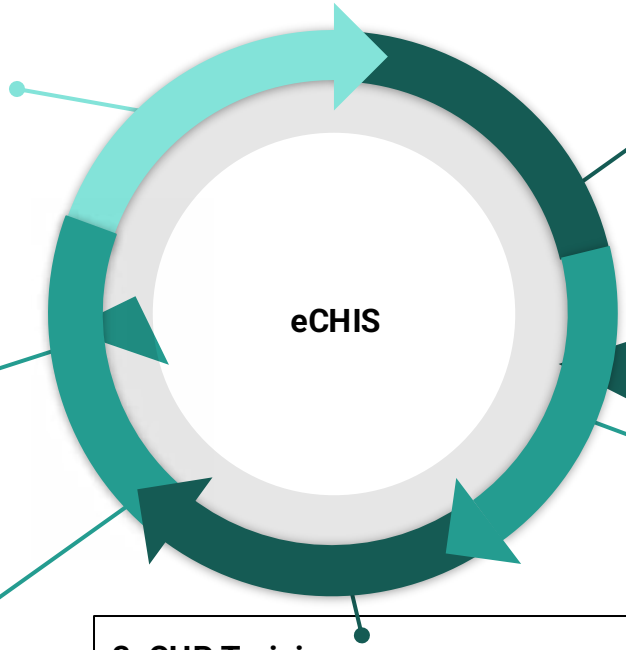
Continuous Technical Assistance to Counties on data use for service delivery

5: Integration with National Systems & Continuous enhancement

Transition to digital enabled service delivery

4: Live system use

Transition to eCHIS powered service delivery



1: Sensitization and stimulation of MoH

County/Sub county sensitization, Support towards eCHIS adoption, Ownership

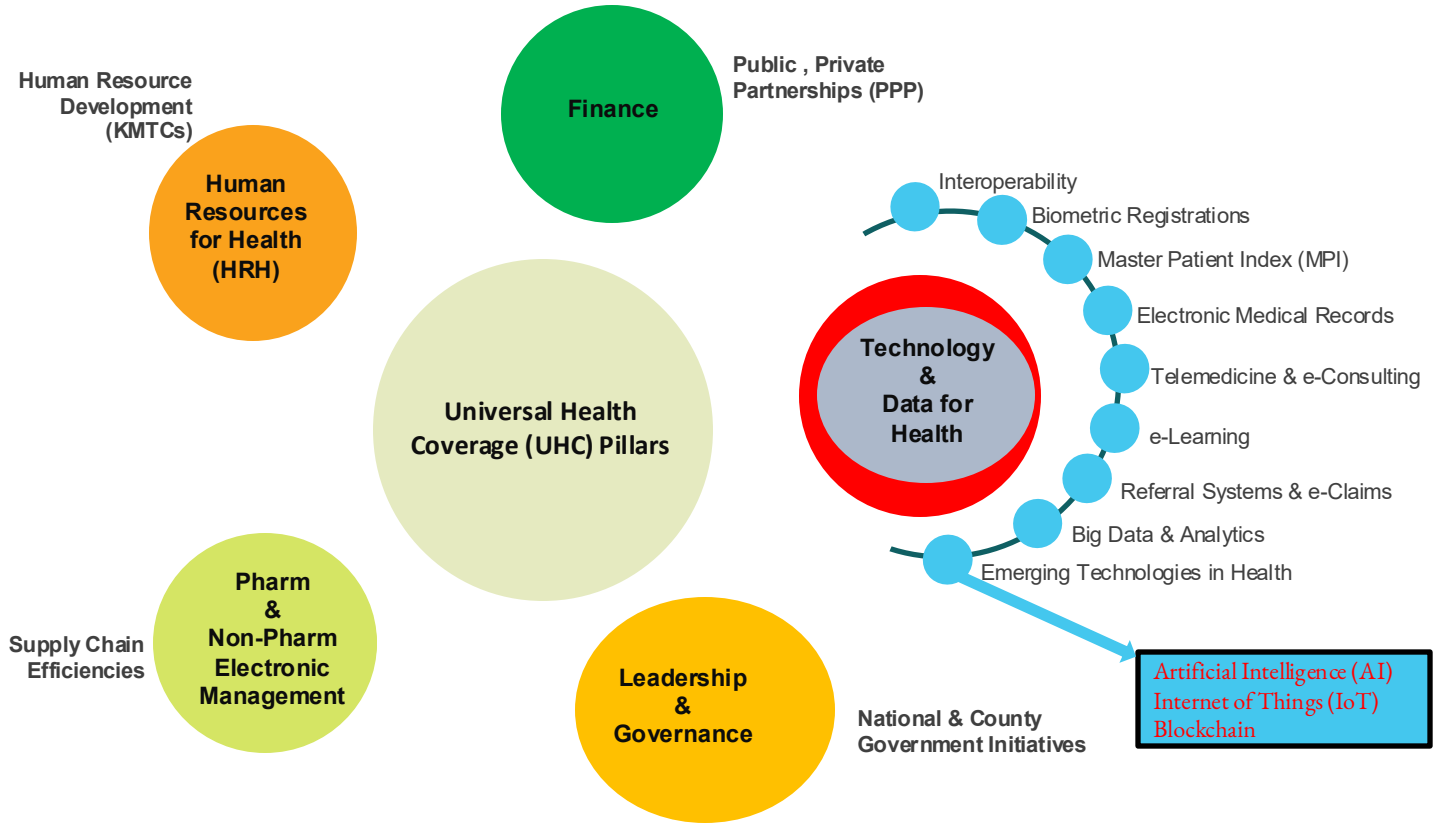
2:Training of trainers (ToT)

Training of trainers (CHMT, SCHMT, CHAs) with support from National MoH Capacity Building team

3: CHP Training

The ToTs with support from CHMT, SCHMT train the CHWs

Pillars For Delivering UHC



Legal and Policy Context

Digital Health Act 2023



40. *(1) E-Health shall be a recognized model of health service delivery.*

(2) E-Health Services shall be complementary to existing healthcare service delivery modalities

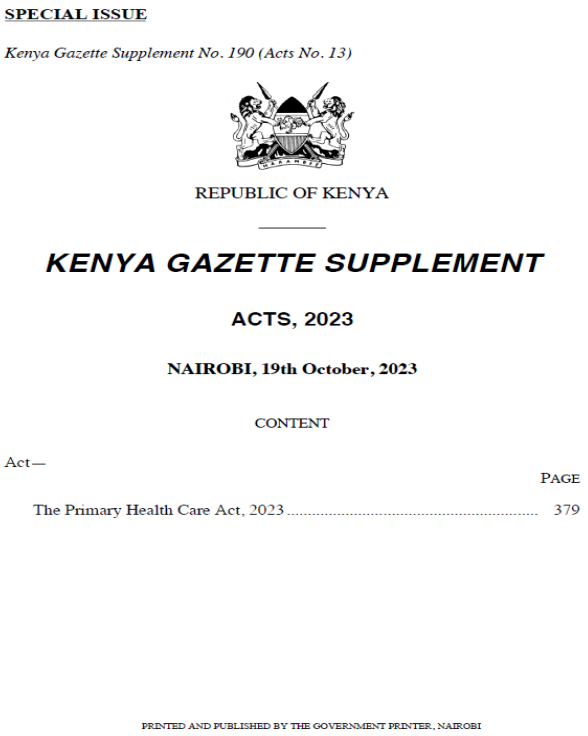
41. (1) The e-Health service shall be provided through—

- *(c) m-health; and (f) any other recognized e-health service*

Data Protection Act 2019



- Part III – Registration of data controllers and data processors
- Part IV– Principles and obligations of personal data protection



SPECIAL ISSUE

Kenya Gazette Supplement No. 190 (Acts No. 13)

REPUBLIC OF KENYA

KENYA GAZETTE SUPPLEMENT

ACTS, 2023

NAIROBI, 19th October, 2023

CONTENT

Act—

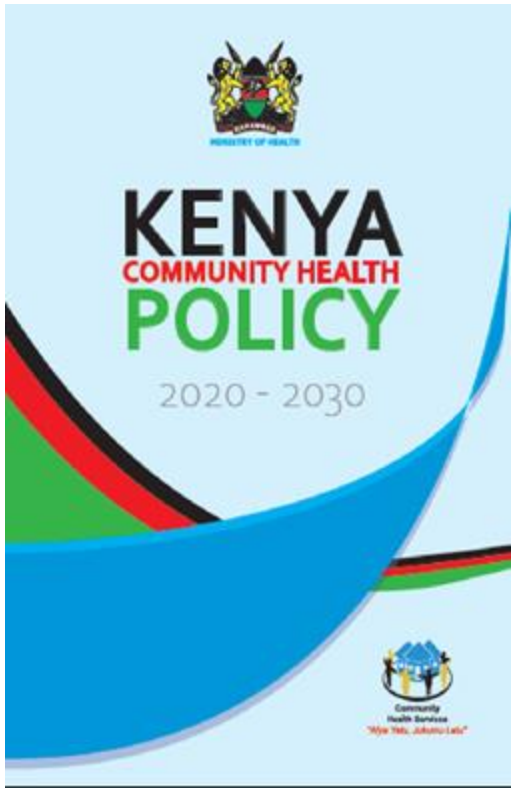
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The Primary Health Care Act, 2023 379

PRINTED AND PUBLISHED BY THE GOVERNMENT PRINTER, NAIROBI

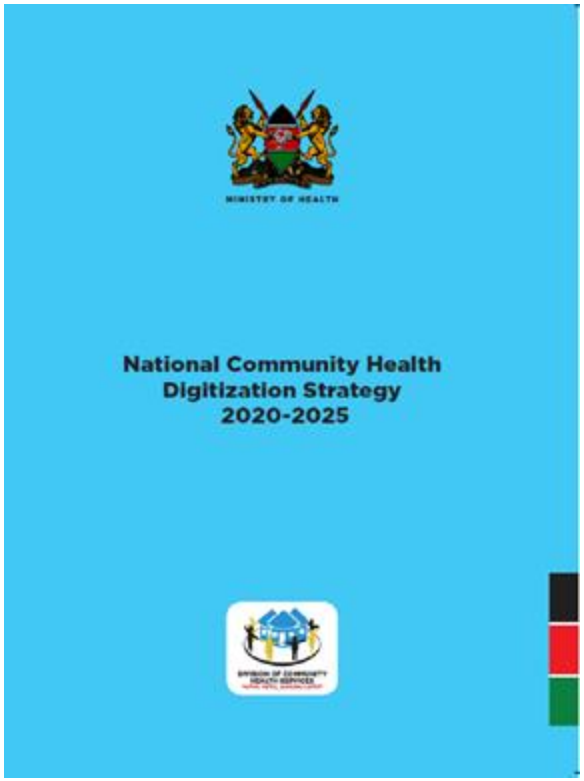
- PHC ACT 2023 enacted on 19th October 2023
- Community Health services fully legislated in this ACT
- Development of PHC Act regulation ongoing

Community Health Policy



- Detailed Policy Objective 3.4: Community Based Health Information System (CHIS
- *3.4.3 A nationally accredited e-health applications may be deployed in order to ensure quality of community health data collection and reporting*

Community Health Digitization Strategy



- Defines eCHIS architecture – software and infrastructure
- Functional Requirements
- Non-Functional Requirements
- Development Lifecycle – from inception to maturity
- Governance Structures

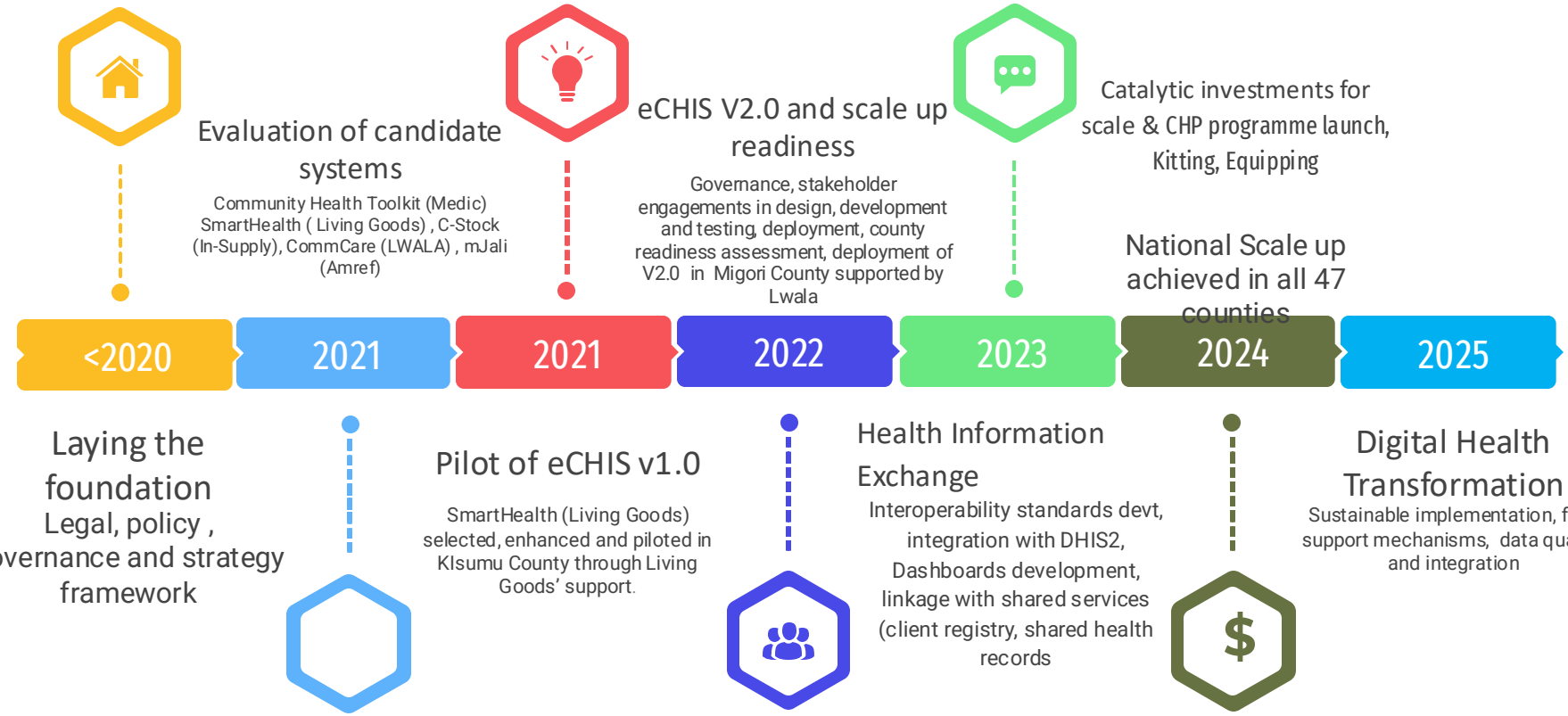
Community Health Strategy



- *Strategic Direction. 5:* Increase availability, quality, demand and utilization of data
- *5.1.Strategic Objective 1: Develop and implement a harmonized digital community health information system*

eCHIS Implementation Roadmap

eCHIS Implementation Roadmap



Status Update

Status Update

- CHT upgraded from V3.0 to Ver. 4.2 with higher capability
- eCHIS transitioned from V1.0 to V2.0
  - V3.0 deployed
- Decentralised eCHIS user management to counties
- Successfully integrated eCHIS to KHIS - deployment to individual county instances
- Introduced DQA in eCHIS - guidelines and DQA tool ready
- Digital payment module developed - pilot in Nairobi and Migori
- Integrated eCHIS with CHWs registry
- Development of Afya BI Dashboards

Emerging Issues/Challenges

- cHPs doing well with household registration but little household visit
- Not all household members are registered
- Other family members not trained in basic community health or eCHIS acting as CHPs
- CHAs manning multiple CHUs
- Some CHPs have never logged into eCHIS ever since they were trained
- System downtime
- Irregular/delayed syncing of data
- Inconsistencies in eCHIS system (, data loss, error fetching, logging out)

Emerging Issues/Challenges

- Some counties with sub-optimal number of CHUs/CHPs struggling to attain 100% coverage of HH registration
- Whitelisting not functioning for some CHPs
- Some CHAs not able to view CHPs work/tasks that require their action
- Minimal technical support to CHPs
- Not all assessments are conducted whenever CHPs make household visit

Recommendation

- Regular data review meetings – monthly
- Supportive supervision – TA to CHPs
- Validation of HH registration to ensure all households are registered and household members added
- County eCHIS user managers to sort out minor issues such as adding new users or transferring users to their rightful workstations/positions
- CHPs in areas with low network strength to identify positions where they can be accessing internet to sync data regularly

Opportunities

- Develop the PHC Act regulations (leverage PHC fund and FIF to support CHS)
- Implement the occupational standards for CHPs
- Provide a transport solution for CHPs covering vast areas
- Training and re-training of CHPs to ensure standardized and quality community health services
- Electronic community health information system enhanced and supported to all counties
- Enhancement of the e-CHIS systems and support to counties
- Performance monitoring of CHP Program implementation

Demo- eCHIS & Dashboards

eCHIS App



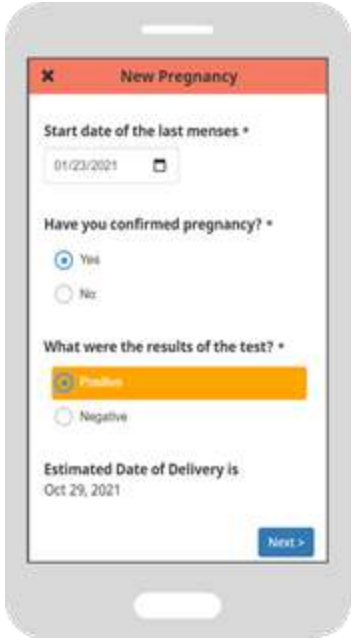
Login



Tasks



Household registration



Service Delivery



Analytics

Kenya National Community Health Information System (eCHIS) Weekly Report

Date: 8th August 2025

108,174
CHPs enrolled on eCHIS

8,776,492 out of 12,500,000 (70%)
households registered in eCHIS by CHPs

7,646,428 out of the **8,820,000 (87%)**
registered households were re-visited by CHPs for routine community health services.

Maternal and child health

9,627,158
Children under 5 assessed for Malnutrition, Diarrhea, Malaria, and Pneumonia by CHPs.

350,902
pregnant women identified by CHPs.

135,790
expectant mothers referred to health facilities for antenatal care by CHPs.

Chronic Illnesses

37,205,772
diabetes screenings conducted by CHPs.

474,761
diabetes referrals for further management done.

25,102,267
Hypertension screenings done by CHPs.

966,775
hypertension referrals for further assessment.

11,632 out of 15,861 (73%)CHUs have been established nationwide ***(data from county review meeting of May 2025)***

Stipend payment status (National)

CHPs in **42** (89%) counties have been paid up to **June 2025**

CHPs in Mombasa, Turkana, Transzoia, Muranga, & Vihiga have been paid up to **May 2025**

Challenges

1. Significant challenges with eCHIS availability to users (ability to log in, data synchronization), especially for high-volume counties

Recommendations

1. Upgrading the eCHIS hosting environment to a better performance tier at Konza
2. Archiving of historical data on eCHIS to manage the data growth rates to optimize storage space

Erokamano!