

Improving Interoperability of Health Information System in Tanzania

Marcos R Mzeru, ICT Officer, (MOHCDGEC/Tanzania) (<u>marcosmzeru@gmail.com</u>)
Hamis Msengi Mwendo (MOHCDGEC/Tanzania)

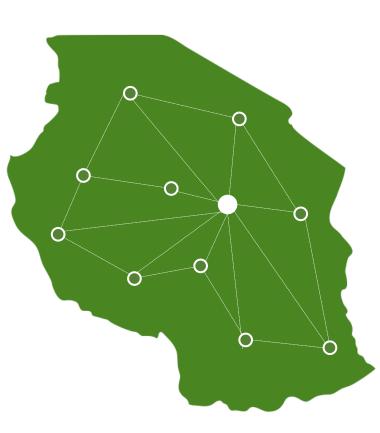
Background

Vision:

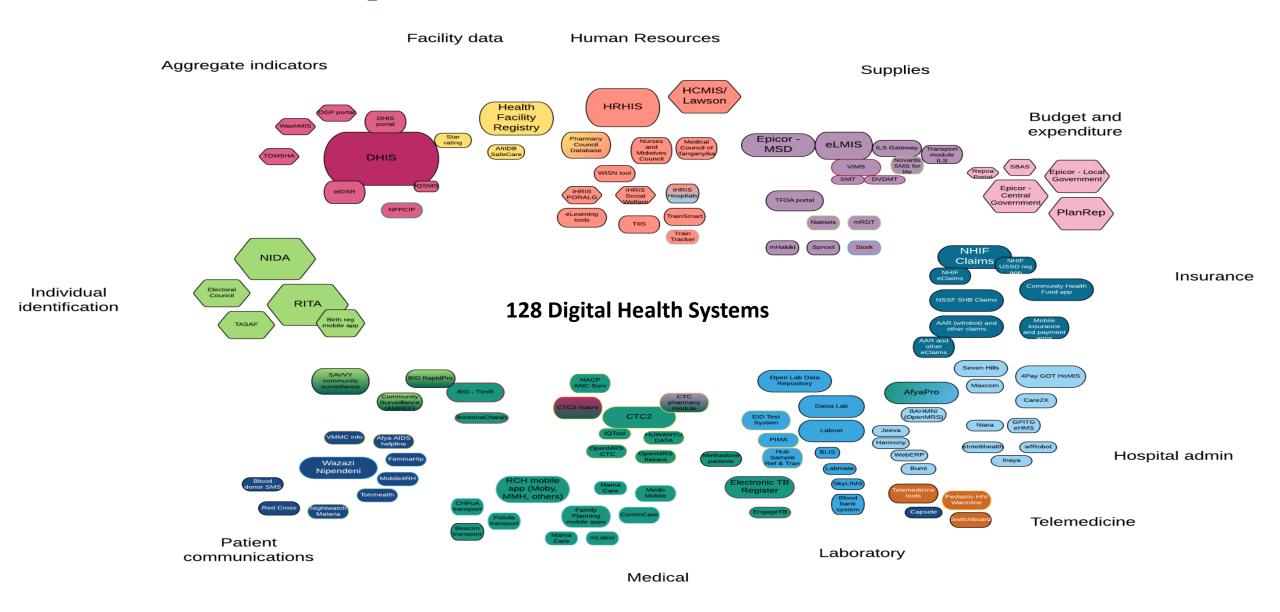
National integrated health information system (NHIS)

Issues in consideration:

- Fragmented ICT pilots and numerous HIS silos
- Need of an interoperability Layer Inadequate sharing/exchange of health information across the sector
- Fragmented and uncoordinated business processes
- Inexistence of common investment framework
- Governance and partner coordination
- Need for a Holistic Approach



Available systems - Across Health sector

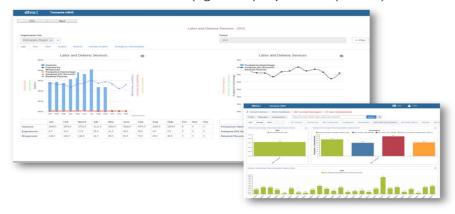


Source: DUP Assessment findings, 2016

Current Situation: Example

Current Situation: Data We Have

• We know what service (eg. ANC) is provided (DHIS2)



Current Situation: Data We Have

We know where a facility provides services (HFR)

The United Republic of Tanzania

What I Asserved Search O Feetings Str. 0 Feetings Str.

Current Situation: Data We Have

· We know the provider who provides services (HRHIS)



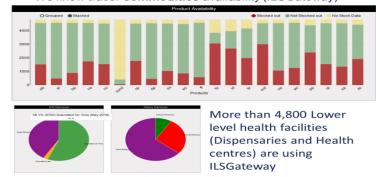
Current Situation: Data We Have

· We know which commodities are available at HF (eLMIS)



Current Situation: Data We Have

We know tracer commodities availability (ILSGateway)

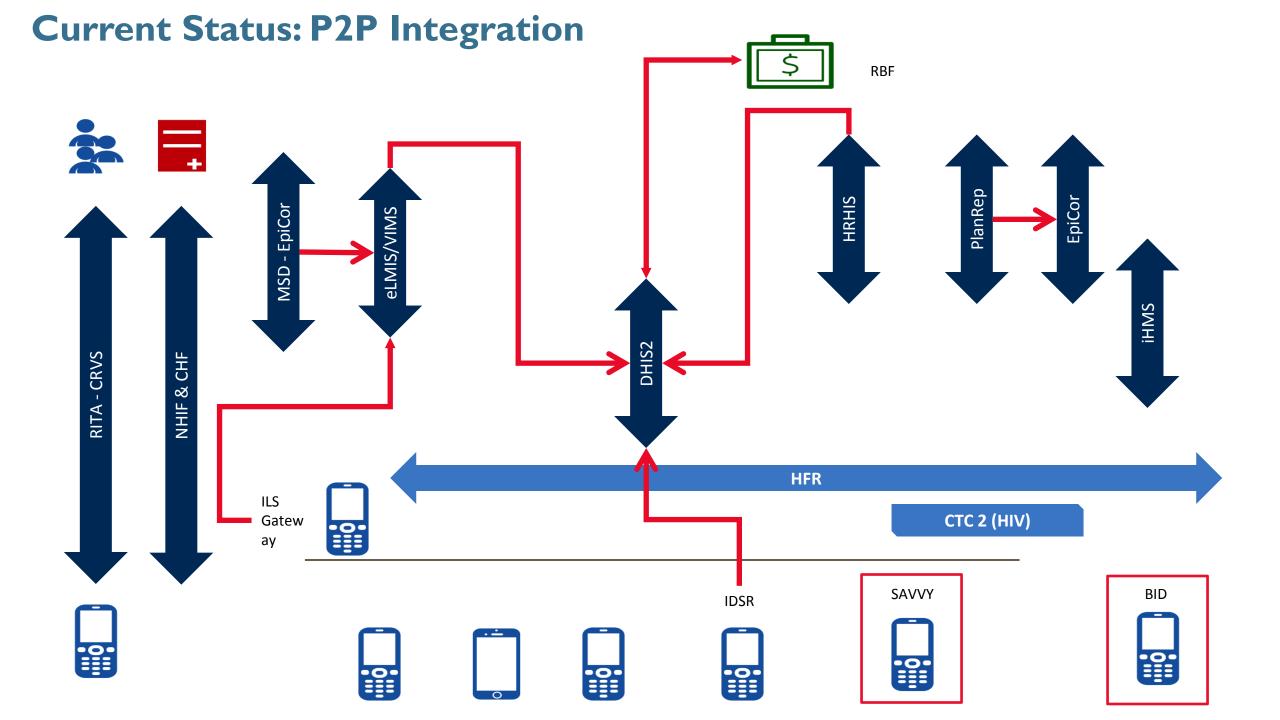


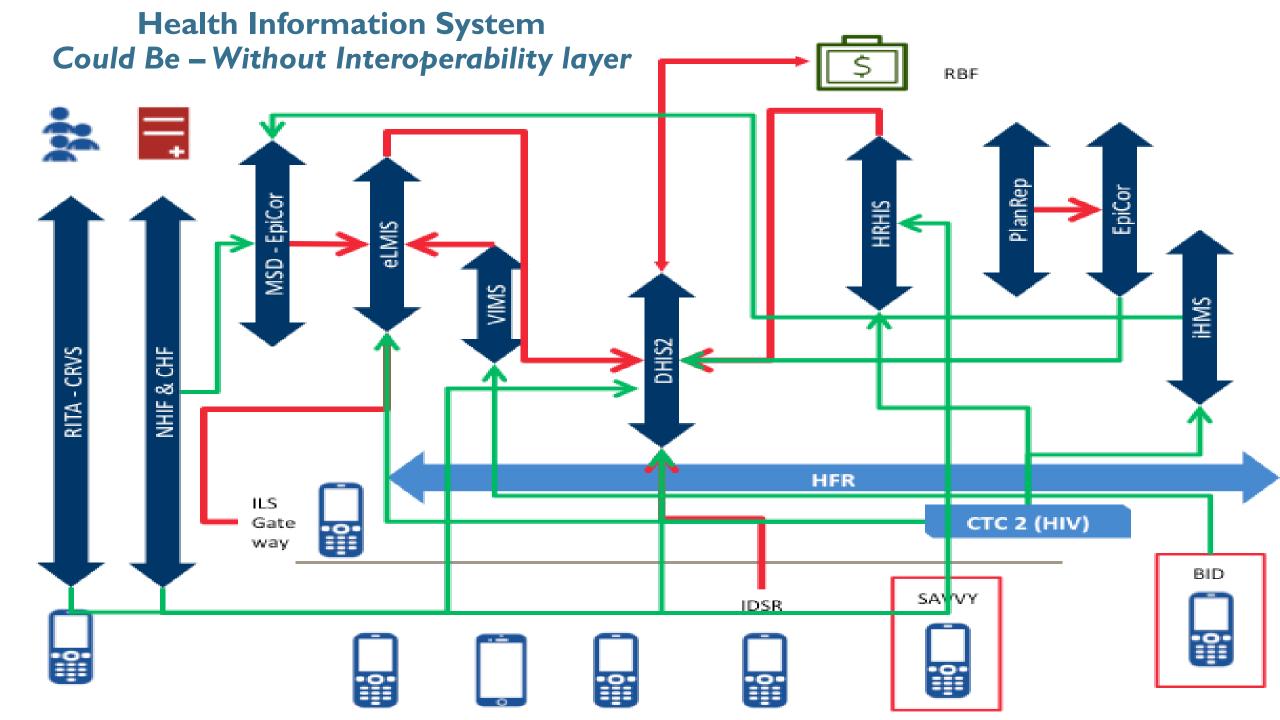
Current Situation: Data We Have

We know how much money is available (District ERP, & MSD)

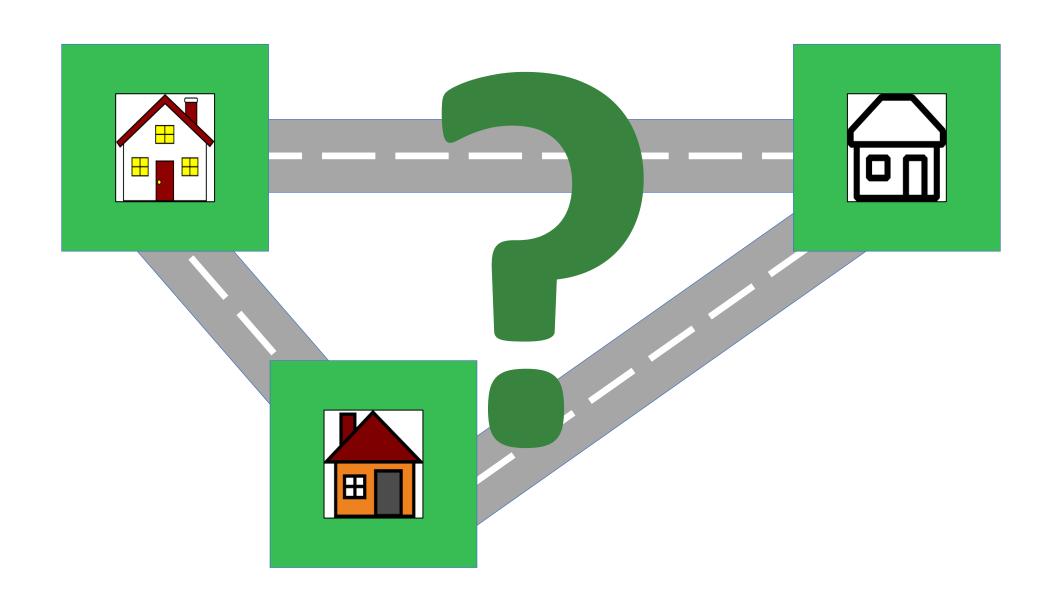


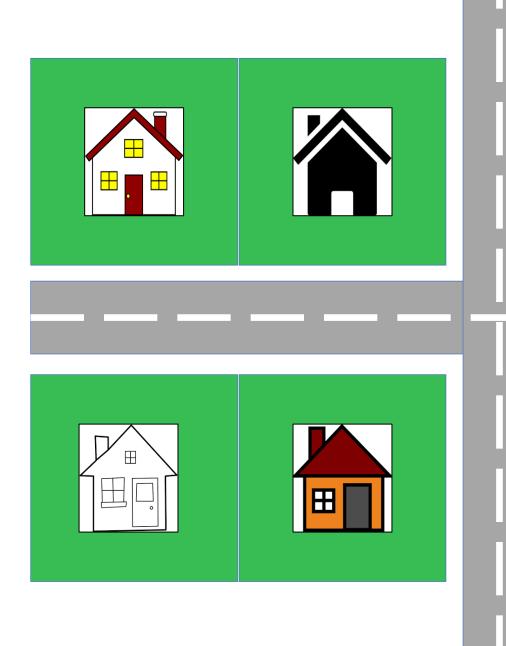
- We don't know to whom (beneficiary) services are provided (EMR) except HIV care (CTC2) and some Hospitals through iHFeMS
- We cannot easily compare what, where, who, which, or how much

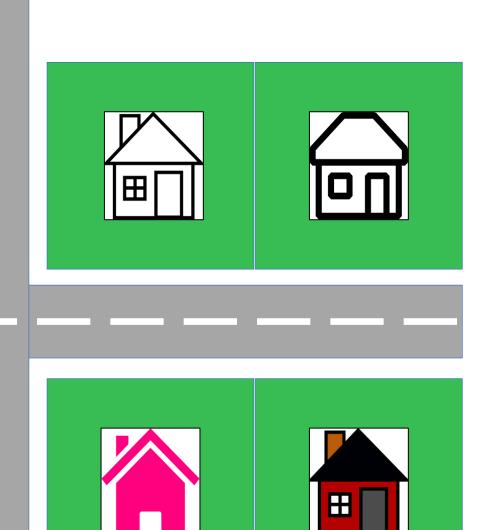












MOHCDGEC and Health Information Exchange (HIE) Commitment

Health Sector Strategic Plan (2015 – 2020)

- The health sector will embrace rapid development of ICT for improving administrative processes, patient/client recording and communication.
- The MOHCDGEC will stimulate development and guide interoperability of systems

The eHealth Strategy (2013 - 2018)

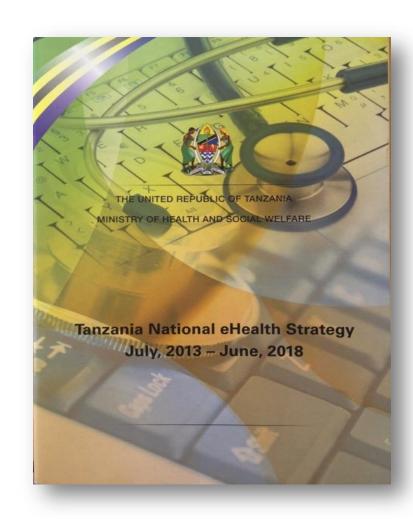
- Establish eHealth standards, rules, and protocols for information exchange and protection
- Establish comprehensive health facility, provider, and client registries with complete and current information that meets stakeholders' needs



eHealth Strategy Strategic Objectives

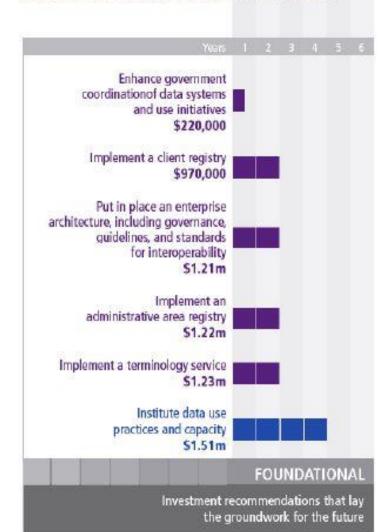
eHealth Strategy identified three strategic objectives as eHealth Foundations:

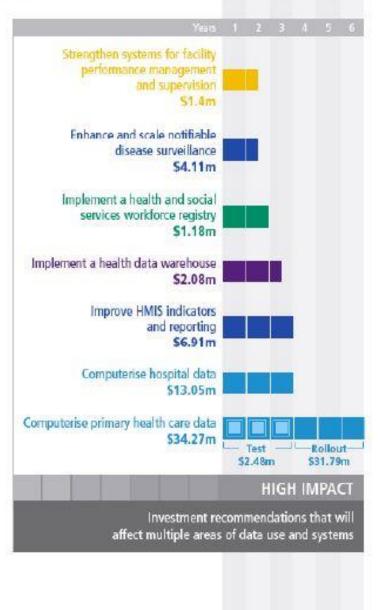
- I. Enhance ICT infrastructure and services to improve communication and information sharing across the health systems and at all levels.
- 2. Establish eHealth standards, rules, and protocols for information exchange and protection.
- 3. Establish comprehensive health facility, provider, and client registries with complete and current information that meets stakeholders' needs.

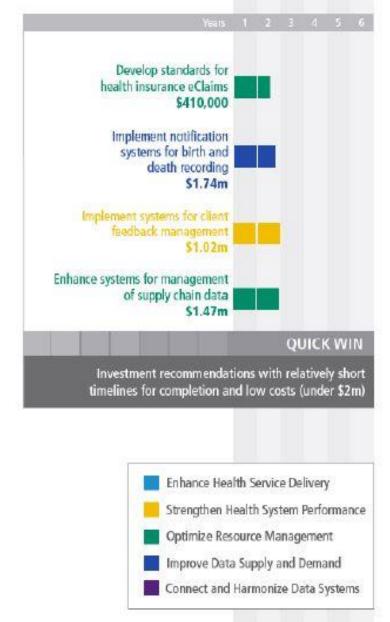


ROAD MAP: THE JOURNEY

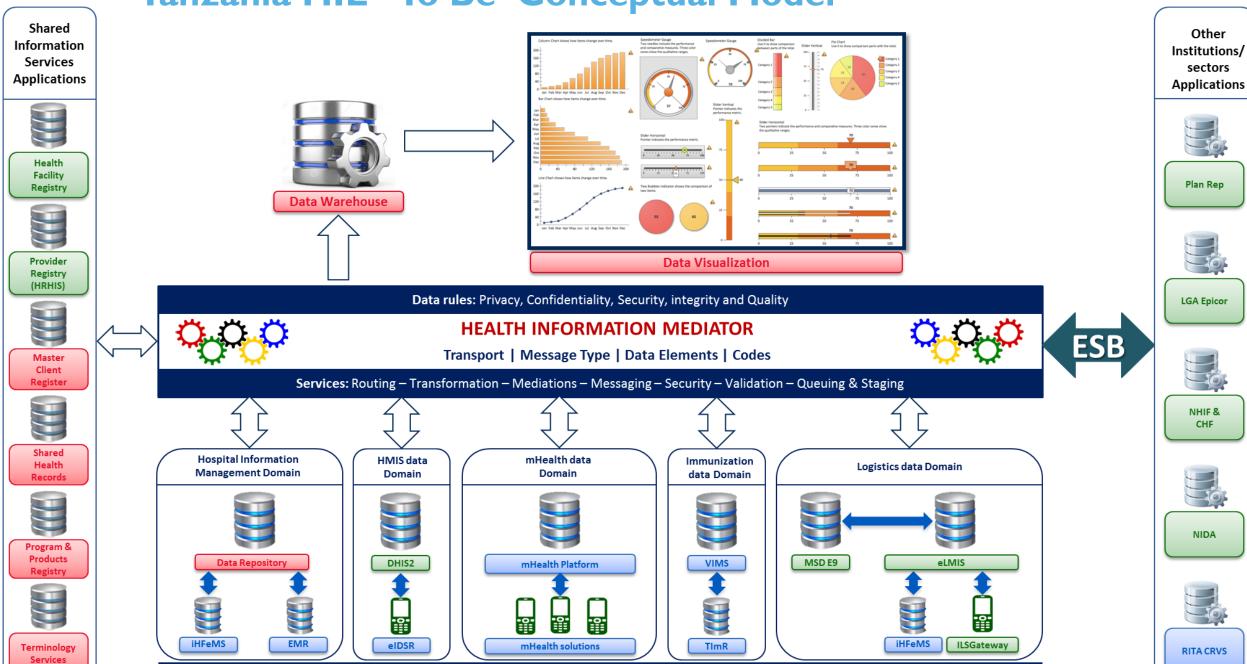
With these priority investments, Tanzania will be able to effectively use data to improve health.







Tanzania HIE 'To Be' Conceptual Model



Point of Service and Decision Support Applications

Other

sectors

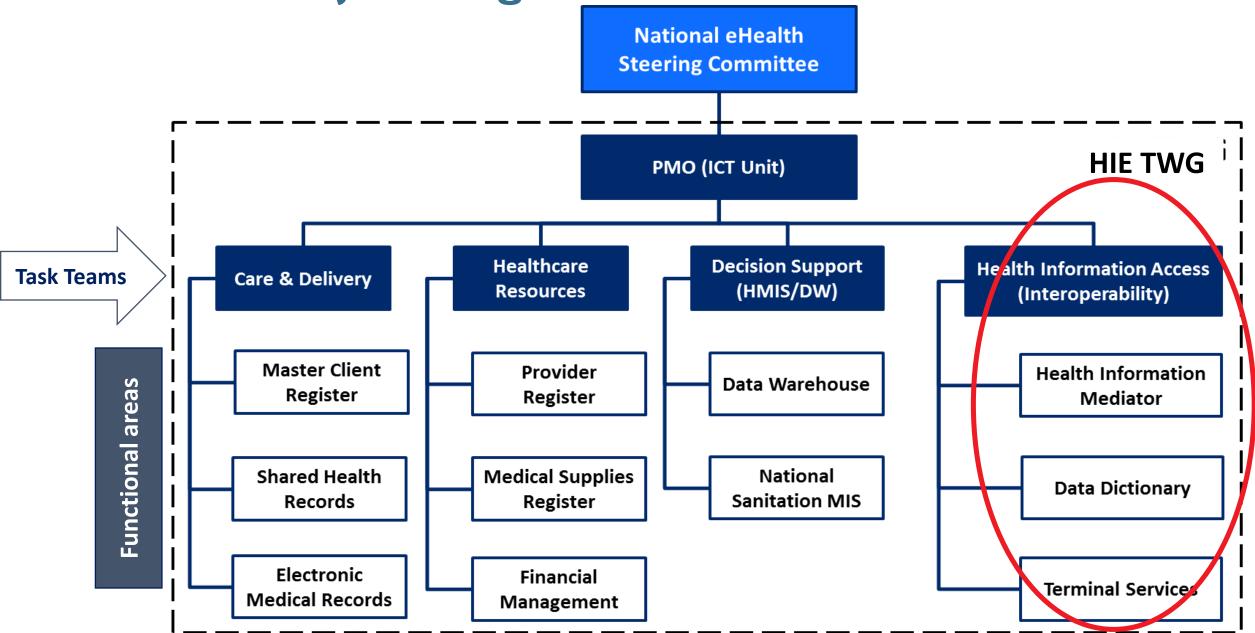
Plan Rep

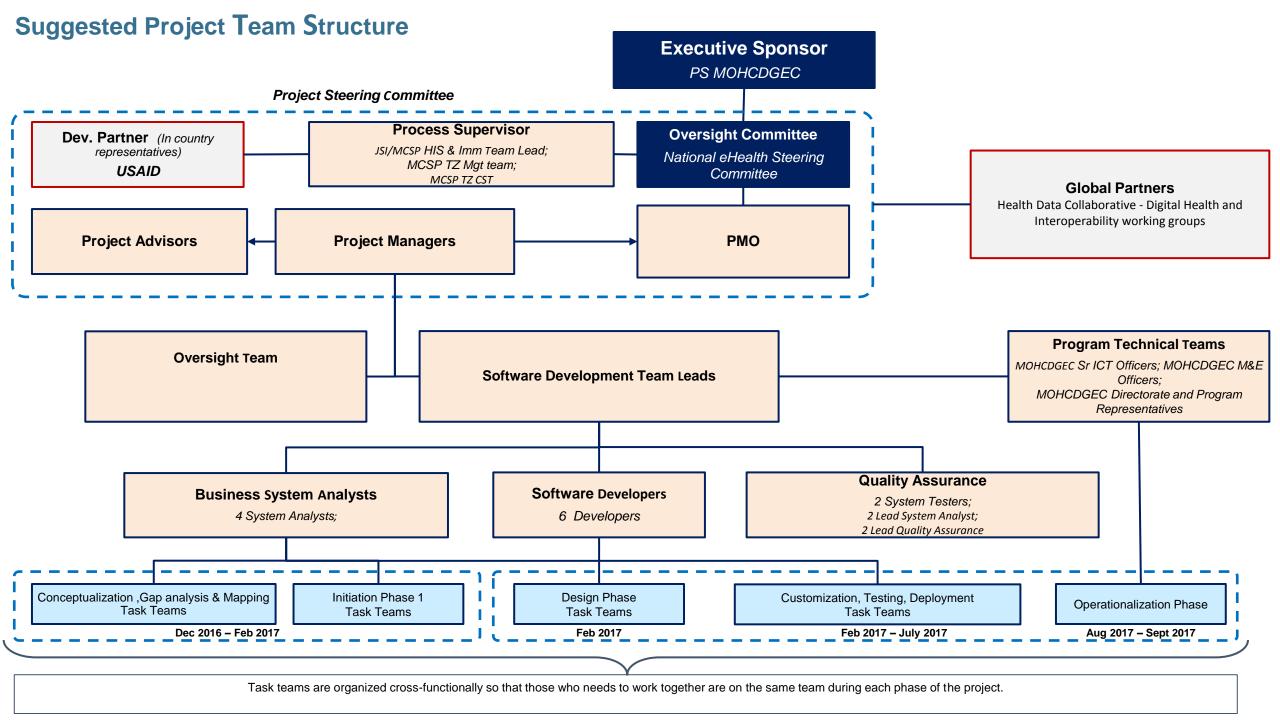
NHIF & CHF

NIDA

RITA CRVS

HIE Project Organizational Structure

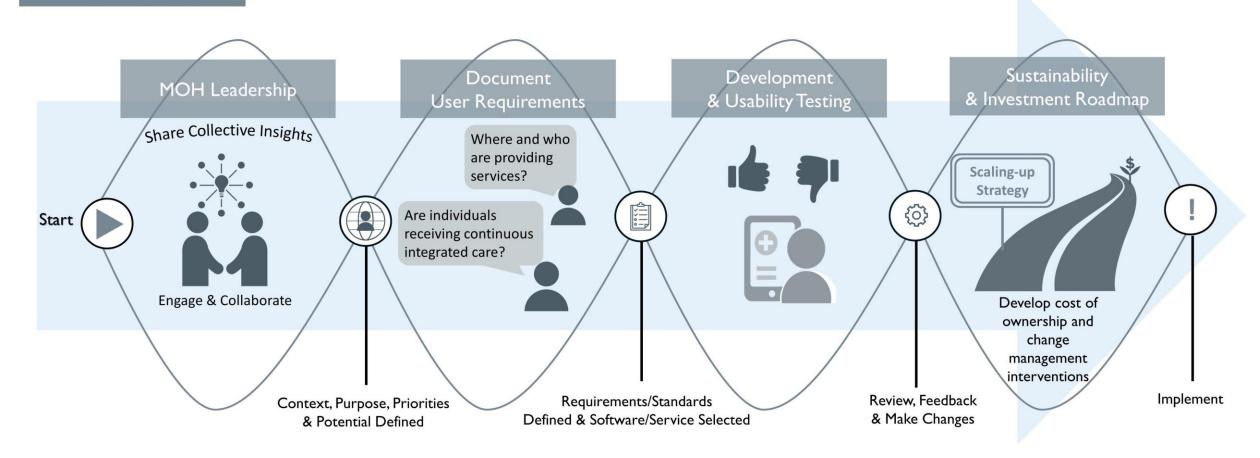




Process for Prioritizing use cases and requirements

- Management identifies a need (possibilities to make data more easily accessible)
- Engage the decision makers in a participatory process to decide the priority use cases
 - Ministry Management
 - NeHSC/PMO
- Buy in from DPs & IPs
- Technical meetings:
 - Requirements gathering process
 - Digital solution selection process
- Stakeholders meeting to review and agree:
 - Requirements and the proposed digital solution
- Approvals and project initiation:
 - PMO/NeHSC
 - Ministry Management

THE PROCESS



Future uses of system

- Data sharing across systems
- e-Registry: Integrated and longitudinal care
- e-Referral from community to facility and lower to higher facility
- Improved decision-making at time of care
- Client feedback based on care received



THE UNITED REPUBLIC OF TANZANIA

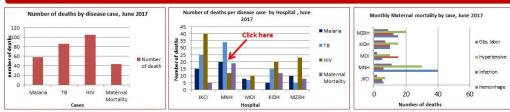


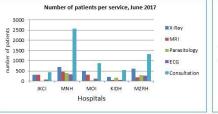
KIDH (June '17)

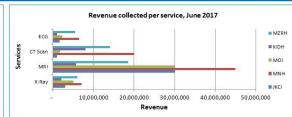
Today Wednesday June 7, 2017 | MNH-Jeeva Updated June 6, 2017 | MOI-MediPro May 30, 2017 | JKCI - Jeeva June 6, 2017 | KBIH - Care2X May 30, 2017

June 2017 Monthly Bed Occupancy Rate

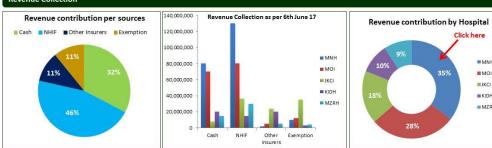
Death by Disease Case







Revenue Collection



THANK YOU!