Next step for DHIS2

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Introduction

• DHIS2

- An HMIS that helps to collect and analyze routine reports circulating in a health management structure of a country – typically developing country
- The routine reports are based on aggregate data from secondary sources
 - Information gap

Information Gap

- Gap between the actual data (Primary Register) and the aggregate (DHIS2) data
 - Results in
 - Compromise
 - data quality
 - efficiency
 - Duplication
- Filling the gap → Next step for DHIS2
 - Automating sources of data for aggregate figures

Sources for aggregate data

- Registers
 - Immunization
 - Birth
 - Death
 - ANC
 - FP
 - **—** TB
 - Malaria
 - Chronic Morbidity
 - ...

Medical Records

- Automating registers
 - Electronic Health/Medical Record
 - Very complex and challegnging especially in the context of developing country
- EMR ... e.g. OpenMRS
 - Hospital/Clinic based system
 - Individuals coming to Hospital/Clinic

Hospital/Clinic based Systems

- Context of developing country
 - Percentage of population with access to clinic
 - Ethiopia = 80% of population living in rural areas
 - India = ??
 - Issue of
 - Distance
 - A clinic within a radius of hundreds of Kilometers
 - Infrastructure
 - Poor transportation means
 - Cost
 - Expensive for poor farmers to travel hundreds of kilometers
- Further question to ask
 - From where is the poor health data coming from?
 - Rural areas !!
- Addressing the rural community

 community-based systems

Community-based systems

- Service reaching a community
 - Service providers going house-to-house based on houseno and names
 - ANM India
 - HEW Ethiopia
 - ...
- − → high degree of mobility !!
- Typical community-based systems
 - Family Planning
 - ANC
 - Immunization

— ...

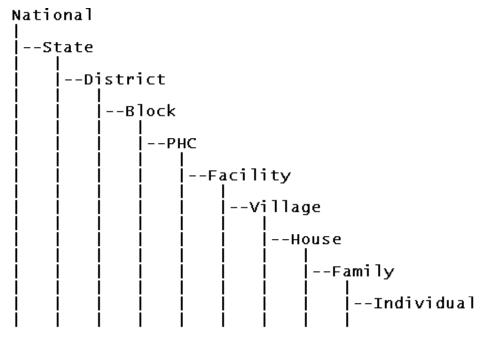
Community-based systems

- Automating community-based systems
 - Locating/tracking individuals
 - Planing ahead
 - Outreaching

Locating/tracking Individuals

Hierarchical approach – with a village/community as an

entry point



- Identification mechanism Name? Unique ID?...
- Issue of migration

Planning

- Actvity planning
 - What service to provide?
 - FP, ANC, Immunization, ...
 - Where to go?
 - Which village?
 - Which house no?
 - For whom to provide service?
 - Individual ... Identifying with name?
 - → Mobile Technology playing a key role

Outreaching

- ANM/HEW/... Community Health Workers
 - At the village
 - Providing service as per the plan
 - Collecting information
 - ...
 - At the facility
 - Compiling information
 - Synchronization
- Possibility to assist health workers
 - handheld devices / mobile information systems

Assisting health workers

- Handheld device
 - Guiding health worker with activity plan
 - No need to carry activity paper ... may be as a backup!
 - Enabling health workers refer history?
 - Enabling health workers collect digital data
 - Easy complilation
 - Easy synchornization
 - Improved level of accuracy
 - No back-logs
 - validation



The whole picture

