

A Database or a Management Information System? Factors to Consider

M&E Workshop

Kampala, Uganda

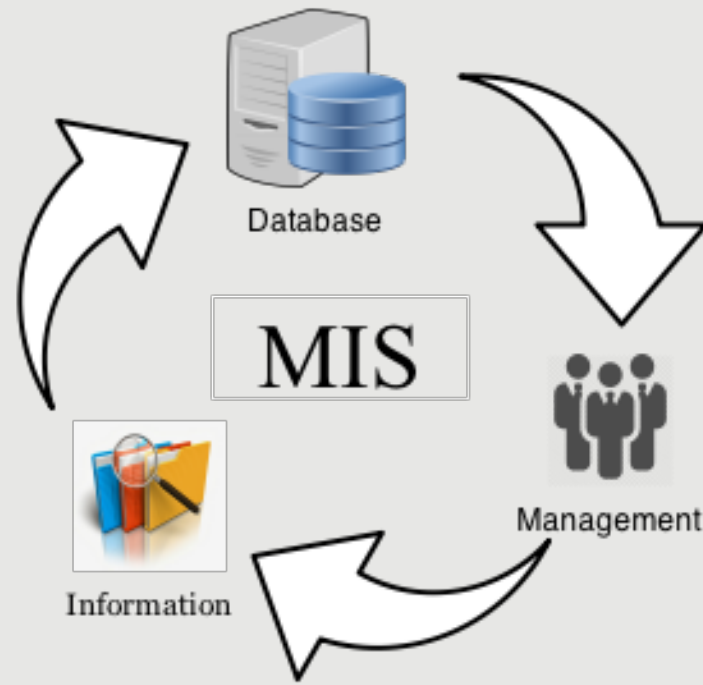
19, 22-25 January 2018

Management Information System

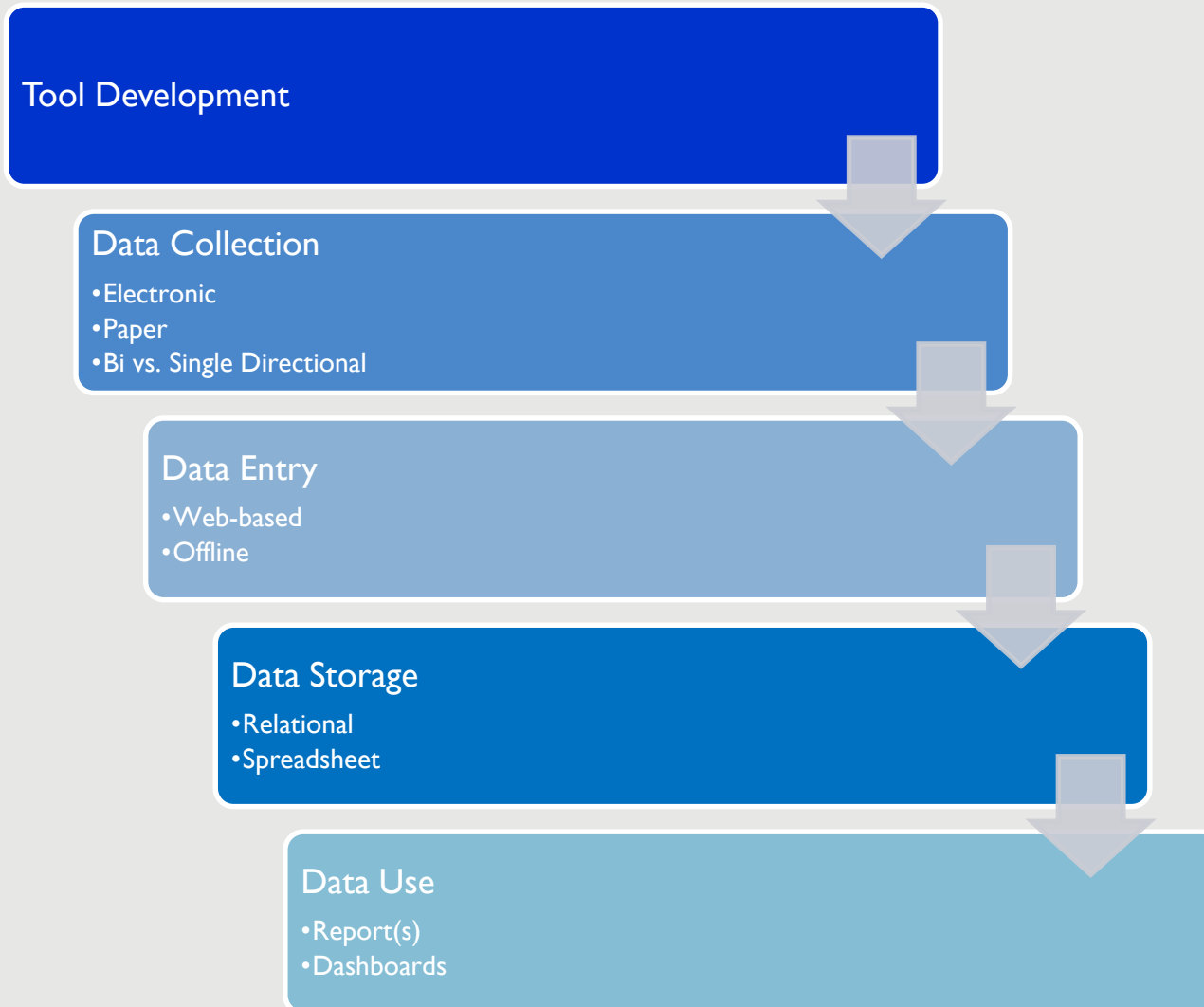
Management information system (MIS) refers to the processing of information through computers and other intelligent devices to manage and support management decisions within a project/organization.

Management Information System

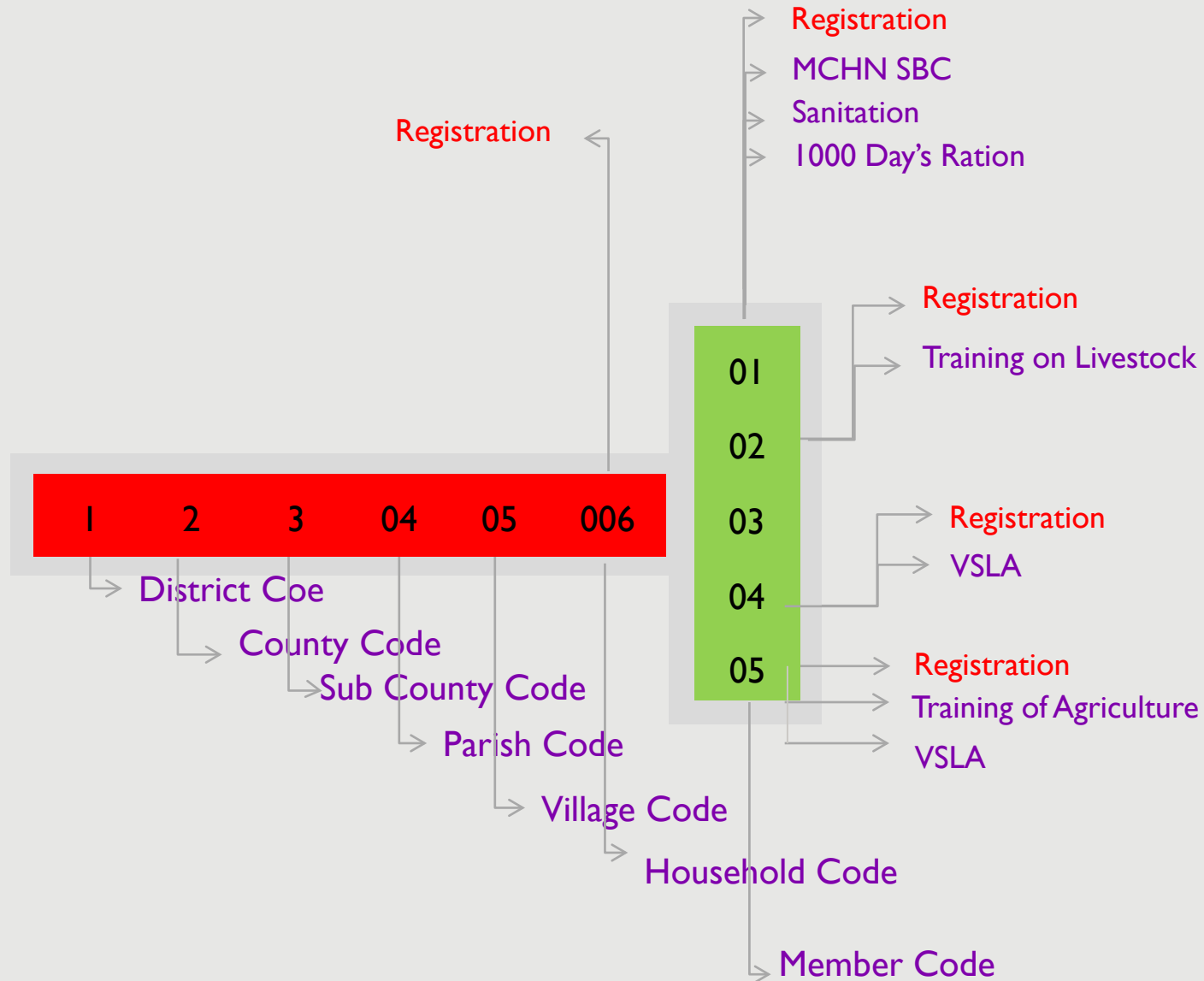
- To improve evidence-based decision making, it is important to develop a ~~DATABASE~~ (MIS System)



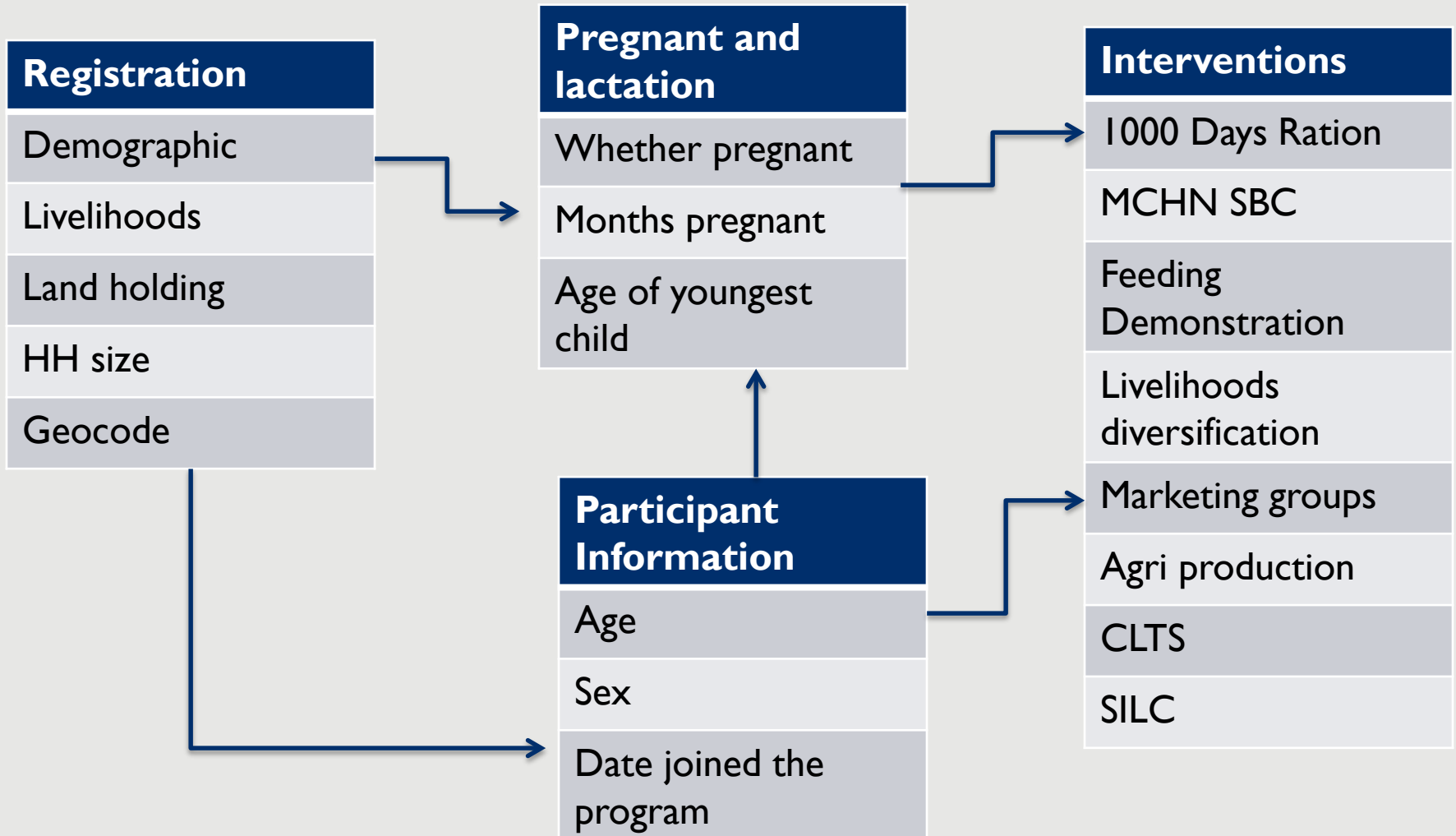
A Management Information System



Minimum Requirements for a Database



Relational Database



FFP Recommends

- Central Database
- Modular
- Start with basic
- User friendly
- Multiple location access
- Unique Identifier
- Simple Interface
- Easily make changes
- Searching data
- Filtering data
- Sorting data
- Safeguarding pricy and security

Data Collection Tools

- ODK 1.0
 - Kobo
 - Ona
 - CommCare/Dimagi
 - SurveyCTO
- ODK 2.0
- iFormBuilder
- Paper

Data Entry Tools

- Computer based
 - Offline
 - Excel
 - CSPro
 - Online
 - Google Forms
 - Google Sheets
 - HTML5
- Device Based
 - ODK (and derivatives)
 - ODK Scan

Data Storage

- Relational Database
 - Access
 - SQL (MySQL, SQL, PostgreSQL, SQLite)
- Spreadsheet
 - Excel
 - Google Sheets

Data Use

- Spreadsheets
 - Excel
 - Sheets
- Data Viz/Reporting
 - Tableau
 - Microsoft Power BI
 - Google Data Studio
 - PHP Frameworks (i.e. www.laravel.com)
 - Javascript (i.e. ChartJS (www.chartjs.org))
- Statistical Software
 - R
 - SPSS
 - Stata
 - CPro

Approximate Cost

Materials

- 100 Tablets (200 - 350 USD/Unit) = \$20,000 - \$35,000
- 100 Solar Chargers (199 USD/Unit) = \$19,900

License & Software

- iFormBuilder : 5 USD/Year/User (100 Users) = \$500
- Bartender : 1445 USD
- ZOHO Report: 10 USD/month/Administrator (5 Admin)= \$50

Website

- Design: 1870 USD
- Repair & Hosting: 348 USD/Year

Staff

- 1 Database Officer & 1 Assistant