



Monitoring & Evaluation in Health Programs

Building Effective Frameworks for Primary Health Care

 Monitoring |  Evaluation |  Decision Making



M&E Concepts: Definitions & Distinctions

Monitoring

Definition:

Continuous, routine data collection and analysis to track project performance

Simple Understanding:

 "We are doing things, right?"

 Ongoing process

Evaluation

Definition:

Systematic assessment of project **relevance, effectiveness, efficiency and impact**

Simple Understanding:

 "We are doing the right things?"

 Periodic assessment

 **Key distinction:** Monitoring focuses on **process** while Evaluation focuses on **results**

Importance of M&E in Primary Health Care



Ensures Accountability

Provides accountability to communities, governments, and donors for health services



Identifies Gaps

Helps identify issues like drug shortages, staff absences, and low immunization coverage



Supports Evidence-Based Decisions

Provides data support for PHC level decision-making to improve health outcomes



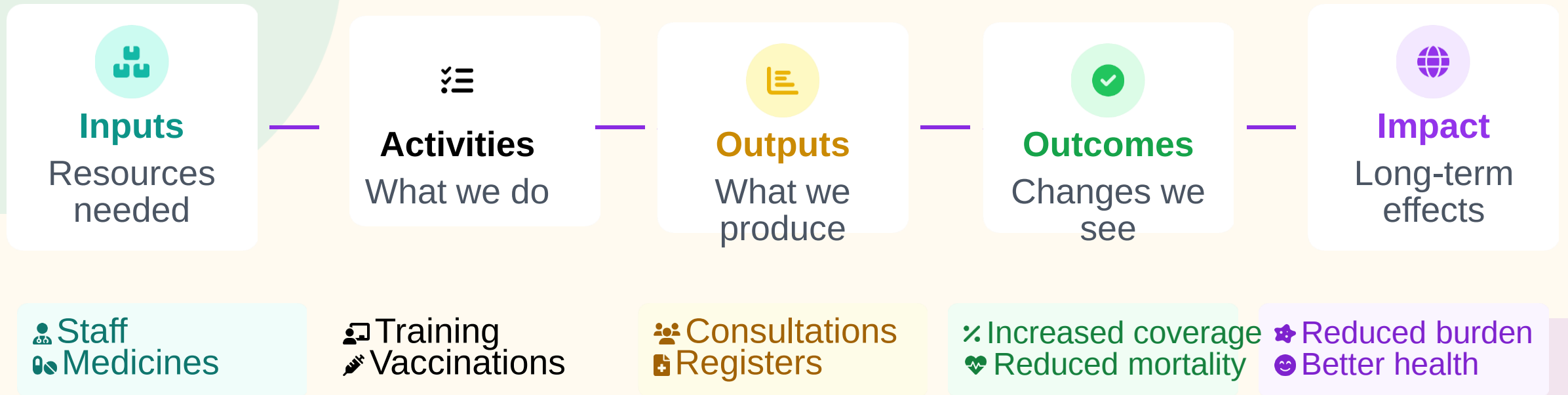
Builds Trust & Transparency

Enhances trust by publicly sharing data and results with stakeholders

 **Real world application:** Using M&E data to improve maternal health programs or dengue response

Key Components of M&E Framework

💡 M&E framework follows a logical chain that tracks the flow from resources to results



📌 **Key point:** A complete M&E framework tracks the entire chain from inputs to impact

M&E Tools & Systems

Effective M&E requires a structured approach with specialized tools to collect and analyze data



Health Information Systems

- ✓ **DHIS-2**
District Health Information Software
- 📋 **Registers**
Tracking individual patient data
- 📄 **Reports**
Monthly/quarterly data summaries



Supervision Checklists

- 📋 **Service Quality**
Ensuring standards compliance
- 👤 **Process Compliance**
Verifying workflow adherence
- 🔍 **Data Collection**
Facility performance monitoring



Community Feedback

- 👥 **Meetings**
Community engagement
- 📊 **Surveys**
Quantitative feedback
- 💡 **Suggestions**
Improvement ideas



Key insight: Effective M&E requires **integration** of multiple tools to collect, analyze and utilize data for decision-making

Types of Indicators in Health Programs



Input Indicators

Resources used in the program

Examples:

- Staff availability
- Drug availability
- Equipment availability



Process Indicators

Activities implemented

Examples:

- ANC visits
- Health education sessions
- Counseling sessions



Output Indicators

Direct results of activities

Examples:

- Immunization coverage (%)
- Number of consultations
- Training completion



Impact Indicators

Long-term effects

Examples:

- Maternal mortality rates
- Child mortality rates
- Disease burden reduction



Inputs



Process



Outputs



Impact

 **Key point:** Indicators should follow a logical flow from inputs to impact



Case Study: Immunization Program

This case study demonstrates how Monitoring & Evaluation works in a real immunization program, showing both monitoring (day-to-day operations) and evaluation (periodic assessment) components.



Monitoring



Daily Vaccine Usage

Tracking the number of vaccines used daily to ensure adequate supply and identify trends



Cold Chain Maintenance

Monitoring the temperature of vaccine storage to ensure vaccine efficacy and safety



LHW Reports

Collecting data from Lay Health Workers about vaccination coverage and community feedback



Evaluation



Annual Coverage Surveys

Systematic assessment of immunization coverage, effectiveness, and community acceptance

- ✓ Evaluates project effectiveness
- ✓ Assesses community acceptance
- ✓ Identifies areas for improvement

Sample Data Collection:



Child Registration



Vaccine Administration



Coverage Survey



Data Collection Fundamentals

Types of Health Data



Service provision data (immunization, ANC)



Resource data (staff, medicines)



Outcome data (coverage rates, mortality rates)

Data Sources



Registers



Statistical forms

Patient records



Pakistan's DHIS2 system

Good Data Quality

 Accurate

 Complete

 Timely

 Reliable

Common Data Collection Errors



Double counting

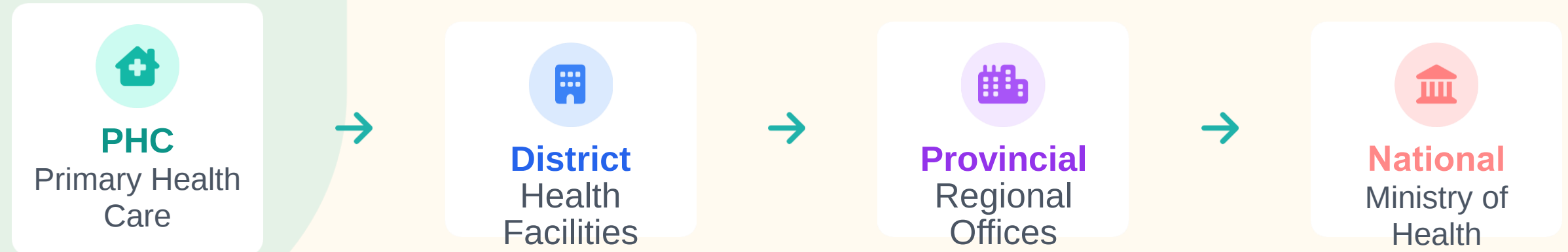


Missing entries



Delays

Data Reporting Flow



Pakistan's Standard Tools



DHIS2

District Health Information Software



EPI Reports

Expanded Program on
Immunization



LMIS

Logistics Management
Information System

Key Elements for Effective Reporting

- ✓ **Regular reporting** ensures timely data availability
- ✓ **Accuracy** is critical for decision making
- ✓ **Auxiliary health personnel** play key role in data quality
- ✓ **Correct register filling** is the foundation of good data

Using Data for Decision Making



Data-Driven Decision Examples:



Immunization Coverage

If coverage falls below 80%, plan outreach activities in underserved villages



Medicine Stockout

If ORS shortage days are high, notify district warehouses for replenishment



Maternal Health

If complications increase, arrange emergency referral plans

Simple Data Set Example

 From BHU monthly registration form:

 Children under 1 year:**100**

 Immunized children:**60**

 ORS shortage days:**12**

 Reported maternal deaths:**2**



Building a Simple M&E Framework for PHC

What is an M&E Framework? A structured way to track PHC activities from inputs to impact

1 Define Goal/Impact

Long-term health improvements (e.g., reduce maternal mortality)

2 Set Objectives

Mid-term changes (e.g., increase ANC coverage)

Identify Outputs

Direct results (e.g., completed ANC visits)

4 Plan Activities

Work to be done (e.g., outreach campaigns)

5 Determine Inputs

Resources needed (staff, drugs, funding)

6 Select Indicators

Follow SMART principles (Specific, Measurable, Achievable, Relevant, Time-bound)

7 Establish Verification

Methods to verify (registers, DHIS2, surveys)

8 Identify Assumptions

External factors (community participation, supply chain)

Implementation Tips:

✓ Start with a simple framework and adapt as needed

✓ Regularly review and update the framework

✓ Involve stakeholders in the design process

✓ Choose indicators that are practical and measurable

