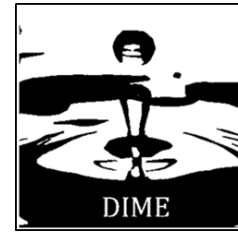




Human Development *Africa*



Evaluating Impact: Turning Promises into Evidence

**Improving maternal and perinatal health through
implementation of Maternal Death Surveillance and
Response (MDSR)**

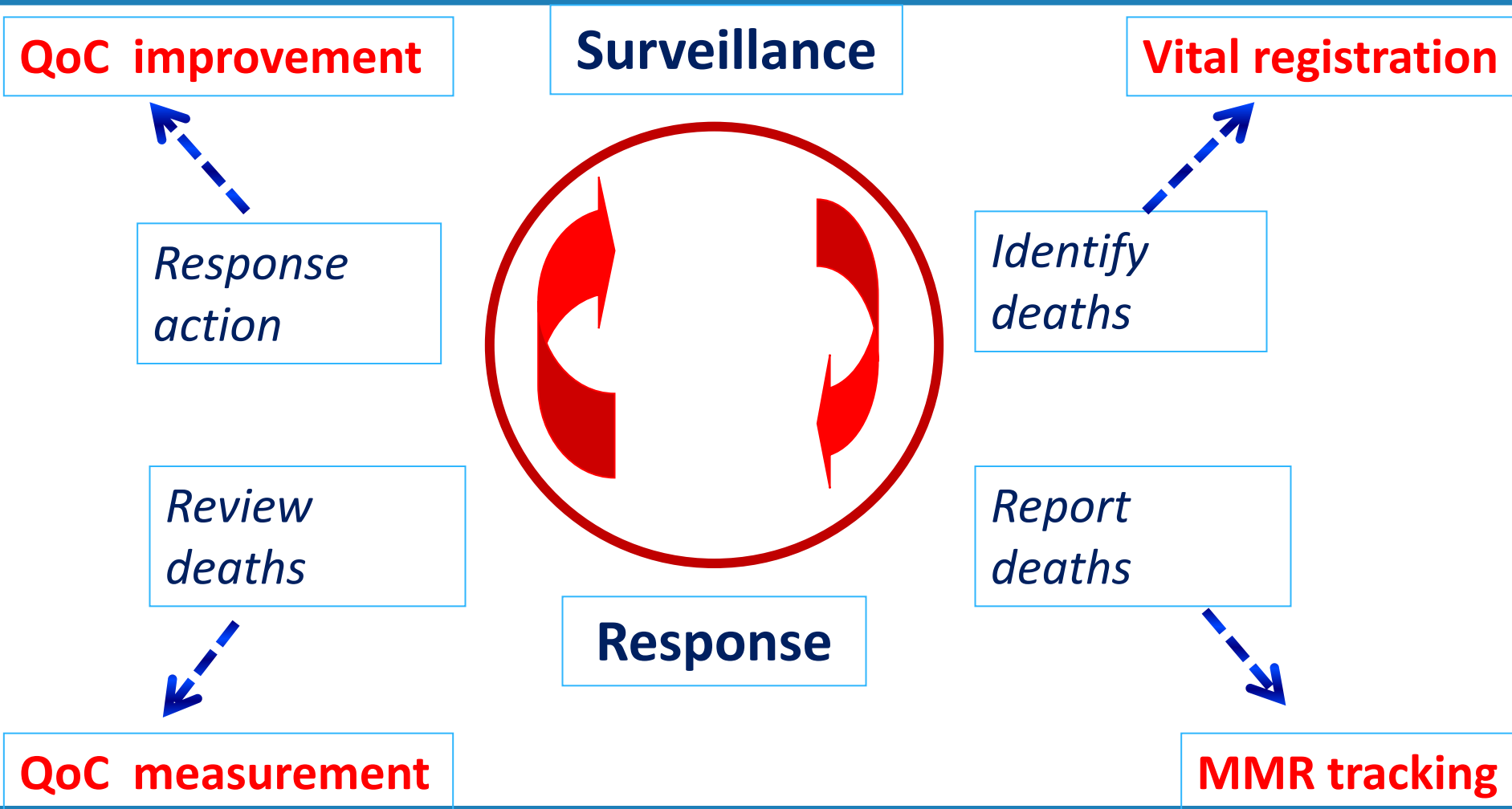
Matthews Mathai, Cynthia Boschi-Pinto, Krishna Bose, Jacobus Cilliers, Nazmul
Chaudhury

**Dakar, Senegal
October, 2013**

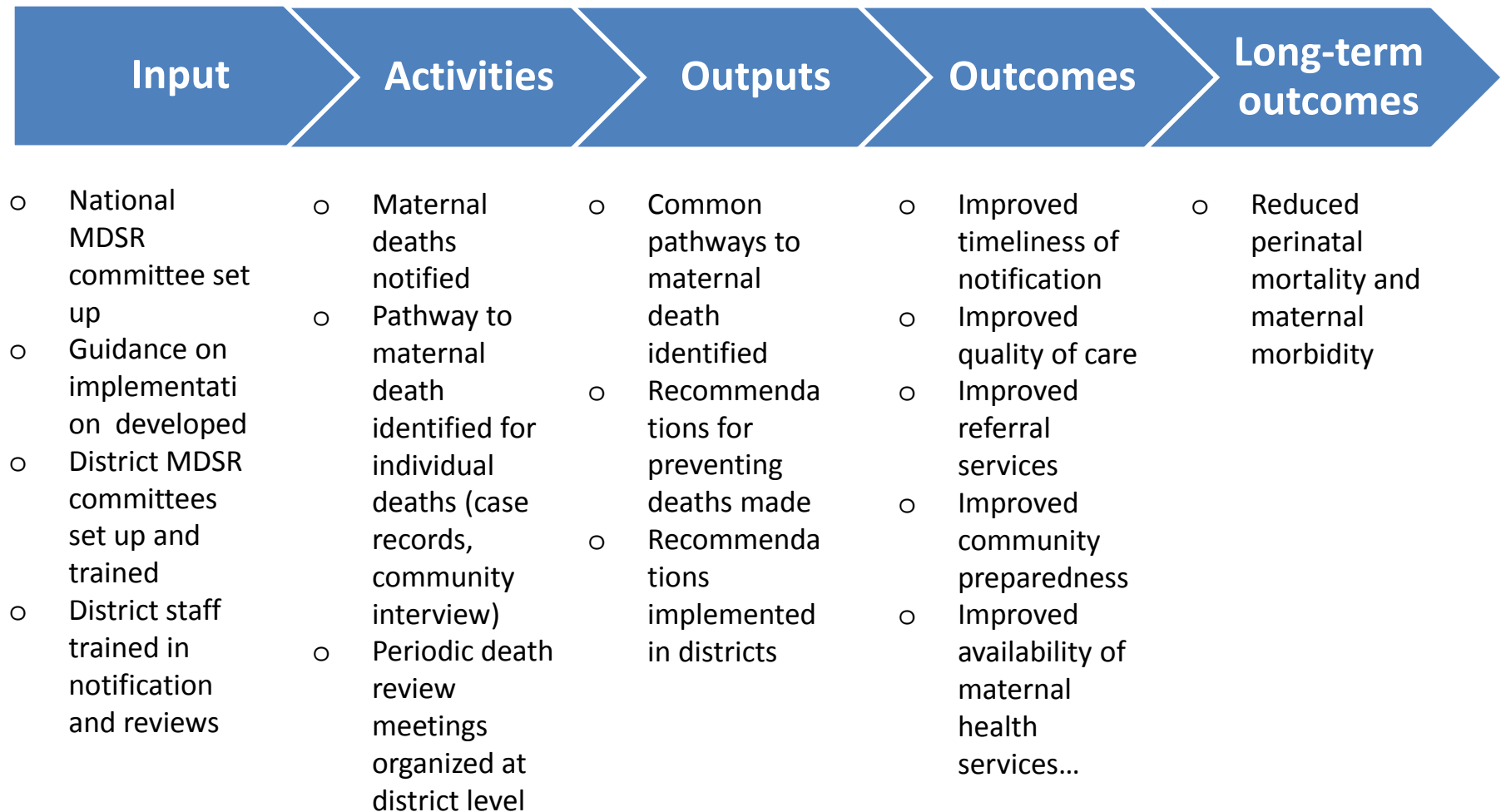
1. Intervention Summary

- ❑ Maternal mortality continues to be unacceptably high in many countries
- ❑ To end preventable maternal deaths, we need the right information to provide specific solutions
- ❑ A maternal death surveillance and response (MDSR) system that includes maternal death identification, reporting, review and response can provide the essential information to stimulate and guide actions to prevent future maternal deaths and improve the measurement of maternal mortality.
- ❑ Maternal death surveillance provides information for taking appropriate actions to prevent deaths
- ❑ Successful Maternal Death Surveillance and Response (MDSR) helps to strengthen national civil registration and vital statistics...

MDSR - relationship to the CoIA recommendations



2. Results Chain



3. Research Questions

❑ Does implementing maternal death surveillance and response (MDSR) contribute to improved quality of care and better maternal and perinatal health outcomes?

4. Impact Evaluation Design

- ❑ Randomized trial
 - ❑ Phased in implementation
 - ❑ Level of randomization: District
 - ❑ MDSR implemented in selected districts
 - ❑ Non implementation districts – control

5. Sample and Data

- ❑ Sample size: 60 districts with data collected from 16 facilities and surrounding communities
- ❑ Assumptions:
 - ❑ Minimum detectable size is 0.2 SD; correlation between baseline and endline is 0.8
 - ❑ $\alpha = 0.05$; power = 0.8; $\rho = 0.1$
- ❑ Baseline and endline data
- ❑ Tools:
 - ❑ WHO Quality of care assessment tools and indicators
 - ❑ for use in facilities and communities.
 - ❑ Data from routine health information system
 - ❑ hospital registers
 - ❑ Minutes of MDSR committee meetings
 - ❑ Observations at MDSR review meetings
 - ❑ FGD with health providers and communities