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Immunization systems diagram: 6 loops, 3 flows, 2 paradigms

Systems Thinking Immunization

Goal: Improve systems view of all stakeholders involved in immunization programs (planned and emergency) to increase immunization performance, resilience, and sustainability in LMICs.

Problem

Vaccine supply alone is not sufficient to guarantee vaccine uptake and disease prevention.

The **complexity** of the

immunization system is not fully known to stakeholders to address mechanisms behind (sub)national underimmunization.

Method

Stakeholders' mental model elicitation from interviews and group model building workshops.

Construction of systems diagram using Systems Thinking

Validation based on data from local settings.

Application/Insights

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ACCESS-TO-MEDICINE

Understand complexity of national-level health system and human behavior in vaccine delivery and uptake.

Assessment of local immunization system performance and sustainability.

Intervention and system design for improved health outcomes



Figure 1. Immunization system (black), exogenous sustainability factors (blue), exogenous resilience factors (red).



Figure 2. Immunization system performance assessment in rural village (left) and peri-urban setting (right)



Ramba village (photo: S. Banzimana)



Paper







