

Laboratory Information Management System

Problem

Epicentre research laboratories are based on a **paper-based system used to track study participants' information**. This system leads to **delays** in communication of laboratory results to clinicians and is more prone to **transcription errors** and implies multiple data crosschecking. The cost of printing and archiving is also expensive, not environmentally sustainable and unsafe.

Proposed Solution

Implement a **software-based laboratory information management system** to manage participant data, track samples, generate reports, and enable **real-time access to results** in Epicentre Labs.



Potential Impact

- Improves **quality, efficiency and productivity** of Epicentre labs
- Improves patient **quality of care** by strengthening MSF's **capacity** to conduct high quality clinical studies

Viability

- Incorporates a software solution that is **cost-effective, sustainable** and adheres to international standards of research, data protection and care
- Close collaboration with software company to adapt and develop the system according to the needs

Risk Mitigation

- Adaptable solution** to meet MSF research/clinical needs at an **affordable price**
- Selected vendor has experience in African context
- Strong **buy-in from users** on vendor selection

Scalability

- Engagement with **Lab Working Group** to share lessons learned
- Free vendor license for all MSF sections

Area/Type: Operations Improvement and Technology; Incubator
Sponsor/Support: OCP, in collaboration with Epicentre
Length/Project Status: 1 year; **ONGOING**