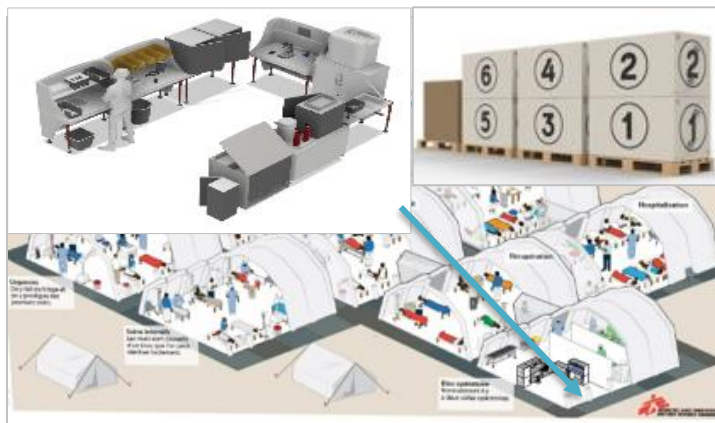


Problem

The rising **threat of antibiotic resistance** due to over/misuse of antibiotics is a major global health threat and jeopardizes the effective treatment of infectious diseases. In addition, the use of conventional bacteriological culture to diagnose infections are **not adapted for low-resource settings** and deliver results that are not easily interpreted by clinicians.

Proposed Solution

Develop a **small-scale, low-cost, transportable clinical bacteriology lab**, enabling sepsis diagnosis, antibiotic resistance sensitivity testing and surveillance at the hospital level by trained, non-expert clinicians and lab technicians.



Potential Impact

- Improves **quality of diagnosis and clinical care** for patients with bacterial blood infections
- Fills a gap in antibiotic resistance, infection prevention and control

Viability

- Extensive **stakeholder engagement** – medical advisors, technical experts, legal, working groups
- Validation of **minimum viable product**, project plan

Risk Mitigation

- OCs engaged in site selection for **field pilot testing**
- Engaging **legal advisors** for regulations, IP and contracts

Scalability

- **Viable solution** to extend lab capabilities where a conventional lab is not possible
- External market analysis with Access Campaign and biotech experts to extend beyond MSF (preferential pricing to be negotiated for all NGOs)

Area/Type: Medical Research and Development; Large Scale

Sponsor/Support: OCP/OCG/OCB

Length/Project Status: 2.5 year; **ONGOING**