# Framework for GeneXpert® Systems HIV & TB Integration

## Planning Phase

### Resources and Needs Assessment
- Assess existing resources (infrastructure, equipment, HR etc.)
- Leverage existing resources to cut costs
- Identify auxiliary equipment gaps (e.g. Centrifuges)
- Leverage C360 to aid identification of GeneXpert platforms with excess capacity, unusual error rates and downtimes
- Identify auxiliary equipment gaps (e.g. Centrifuges)

### Site Selection
- Identifying sites suitable for phase I implementation
- Prioritizing high HIV/TB burden sites
- Setting sites to succeed in integrating HIV/TB
- Detailed install base mapping and checking to aid prioritization of high disease burden facilities (close to both ART & DOTS centers, far from central HIV labs)

### Site Preparation
- Preparing sites to ensure that HIV/TB integration is successful
- Setting sites to succeed in integrating HIV/TB
- Hardware Check: GeneXpert modules status report and facilitate equipment calibration
- Software check: virology assay software upgrades
- Connectivity check: equipment transmitting data

## Implementation Phase

### Phase I Implementation
- Implementing HIV/TB integration at district level
- Decentralizing HIV/TB integration up to district level
- Supplying procured reagents and equipment
- Training of end-users/operators to process both TB and HIV testing
- Shadowing users during initial runs
- Servicing equipment as needed

### Laboratory Networks and Systems Strengthening
- Deploying remote access and connectivity
- Increasing visibility on HIV/TB testing programs and testing equipment
- Facilitating installation of Cepheid® C360
- Supporting the program to connect all instruments, establish an effective Service & Maintenance mechanism and continuous training program for end-users/operators

## Best Practices

### Monitoring & Evaluation and Dissemination
- Perform routine review and evaluation
- Implement improvements and recommendations
- Increase program efficiency and patient health outcomes
- Facilitate dissemination of best practices at international and regional conferences
- Sponsoring symposia and roundtable discussions

### MOH Leadership and Coordinated Partner Engagement

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* Direct or through an approved local partner

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In Vitro Diagnostic Medical Device
May not be available in all countries.

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