EXPANDx-TB Project

3rd GLI Annual meeting, 4 October, 2010

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WHO Stop TB Department

EXPANDx-TB is managed by WHO-GLI, GDF and FIND under a grant from UNITAID
3 MAIN OBJECTIVES

**EXPanding Access to New Diagnostics for Tuberculosis**

- Improve control of MDR-TB
- Improve market dynamics
- Integrate tools in TB control programmes
3 PROJECT PHASES

Phase 1: Laboratory Preparedness

- Lab assessments
- Infrastructure/biosafety
- Quality Assurance
- SOPs

Phase 2: Introduction of new diagnostics

- Procurement of commodities
- Integration of new diagnostics into screening and treatment guidelines (Training, Validation, Knowledge transfer)

Phase 3: Impact Assessment

- Continued support and oversight of technology transfer
- Impact measured and reported
- Ensuring GLP, IQC and EQA measures
SELECTION OF COUNTRIES

- High-burden MDR-TB Countries
- UNITAID eligible countries
- GLC approved project
- Partner support Infrastructure & Tech Transfer
WORLDWIDE COMMITMENT

2009: 6 countries
2010: 18 countries including India (40 labs)
2011: 3 countries
Project targets*

<table>
<thead>
<tr>
<th>Year</th>
<th>Patients</th>
<th>Targets (Countries)</th>
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<tbody>
<tr>
<td>2009</td>
<td>2,036</td>
<td>6</td>
</tr>
<tr>
<td>2010</td>
<td>31,227</td>
<td>25</td>
</tr>
<tr>
<td>2011</td>
<td>94,443</td>
<td>25</td>
</tr>
<tr>
<td>2012</td>
<td>115,929</td>
<td>27</td>
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<tr>
<td>2013</td>
<td>129,670</td>
<td>27</td>
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Total ~ 129,670

* Targets calculated as a % of the estimated MDR-TB burden, 80% for most countries; 35% for India and 60% for Zambia and Cameroon.
A UNIQUE PARTNERSHIP MODEL

Funding for essential instruments, reagents, supplies

- Policies, norms international standards
- Participate in lab assessments
- Provide long-term, on-site monitoring
- Develop indicators and tools for M&E

UNUNITAID
TOGETHER TO HEAL

Global Laboratory Initiative

- Negotiate with partners to ensure lowest prices
- Ensure customer support in place
- Share know-how from product development process
- Provide long-term, on-site mentoring for technology transfer

- Coordinate and manage procurement and delivery
- With FIND, engage industry to ensure affordability and sustained price decreases
- Collaborate with WHO pre-qualification to include diagnostics

Logistics and supplies
Human Resources (Guidelines Technology transfer)
Infrastructure
Quality Assurance
Linked referral systems and reporting
Providing diagnostics is not enough: 360° support

Providing long-term, on-site mentoring to ensure sustainability

- Biosafety standards
- Coordination with local stakeholders
- Internal and external quality assurance
- Monitoring, evaluation and impact assessment
- Procurement of new diagnostics and ancillary lab commodities
- National TB Programs
- Ministries of Health
- Technology transfer and training
- Policy reform and adoption
- Laboratory quality management SOPs
- Supply chain management and specimen referral mechanisms
IN-COUNTRY PARTNERS

**Ethiopia**
- MOH, PEPFAR-CDC, GAP/ILB, JHU & ICAP, SRLN, GF

**Lesotho**
- MOH, PIH, PEPFAR/CDC, WHO, URC, GF, BD, SAMRC

**Côte D’Ivoire**
- MOH, WHO, PNLT, IPCI; CAT Adjame, CeDReS, ASM, PEPFAR, EGPAF

**Uzbekistan**
- MOH, WHO, KfW (EPOS), GF, USAID, Euro Lab Task Force

**Myanmar**
- MOH, WHO, NTPL, AKK. JAICA, PSI, MSF, UNION

**Haiti**
- MOH, NTP, WHO, NPHL, NRLM, GHESKIO, Fondation Mérieux, CDC-PEPFAR, ASM, Cornell University
ACHIEVEMENTS AT A GLANCE (1)

- Kazakhstan
- DR Congo
- Belarus
- Viet Nam
- Uganda
- Tanzania
- Haïti
- Côte d’Ivoire
- India


- Cameroon
- Senegal
- Peru
- Zambia
- Kenya
- Bangladesh
- Indonesia
- Djibouti
- Georgia
- Tajikistan
- Azerbaijan
- Moldova
- Kyrgyzstan
- Swaziland
- Myanmar
- Ethiopia
- Uzbekistan
- Lesotho
ACHIEVEMENTS AT A GLANCE (2)

- **Uzbekistan**: 1,423
- **Ethiopia**: 271
- **Lesotho**: 116

- 2007
- Mid 2010
- Project total
LESOTHO – a model for rapid knowledge transfer

1 reference lab: QEI hospital
1 regional lab: Mafeteng government hospital

2006-2008: FIND, PIH and WHO renovated the NRL and reinforced microscopy services, streamlined culture and DST and introduced modern TB diagnostic methods

2007: BSL3, solid culture and DST, and EQA for smear microscopy established within 4 months

Liquid culture and DST introduced one month later

2008: LPA introduced for rapid detection of MDR-TB


2009: FIND conducted retraining for laboratory technicians at the NRL

2009: Validation of new TB Dxs algorithm finalised

2010: Regional laboratory is currently being renovated

2010: Patient enrolment has started under ExpTB – 116 patients reported Jan-Mar
ETHIOPIA – a model for integration

8 sites supported:

2 central labs: EHNRI (NRL), St Peters Hospital and 6 regional labs: Mekelle, Bahir Dar, Jimma, Awasa, Adama (Nazret), Harrar

FIND involved since 2007 with full-time consultant

Integrated HIV viral load testing with Line Probe Assay at central and regional locations

Refresher training in 2 central labs

Technical proficiency validated (sputum processing, SC, LC, LPA)

Negative air pressure and equipment installed at 6 regional labs, training planned

Inauguration March 2009
**INDIA – a model for scale-up**

**40 sites to be supported:**

- 4 national reference lab, 27 intermediate reference state laboratories, 9 medical colleges
- Joint project involving UNITAID (EXPTB) and GF (CTD-MoH)
- In 2008, Collaboration Agreement GoI and FIND to demonstrate introduction of liquid culture, LPA and species ID
- 2010 FIND’s role as a sub-recipient for India’s GF R9:
  - support of human resources in data management and lab support
  - technical assistance and on-site training support for technology uptake.
- Signing of Expand-TB MoU and start of activities April 2010
MYANMAR – a model for political commitment

2 sites

1 central lab, in Yangon and 1 regional lab in Mandalay

Equipment for 2 BSL3s shipped, installation completed

WHO country office acts as recipient of goods

MOH, Government of Myanmar in charge of customs clearance & shipping to sites

EXP-TB consultant coordinating all activities

Government of Myanmar has refurbished the laboratories

5 lab techs underwent 2-week training in Bangkok by FIND, with funding from WHO