



# Annual Meeting 2016

26 October 2016, ACC, Liverpool, UK

Strategic framework for new diagnostics 2016-2020:  
Supporting *Global Plan* goals

Catharina Boehme, FIND, NDWG Co-Chair

**Stop TB Partnership**

**New Diagnostics Working Group**



# New Diagnostics Working Group

*Fostering development of new diagnostic tools for TB*

## Vision

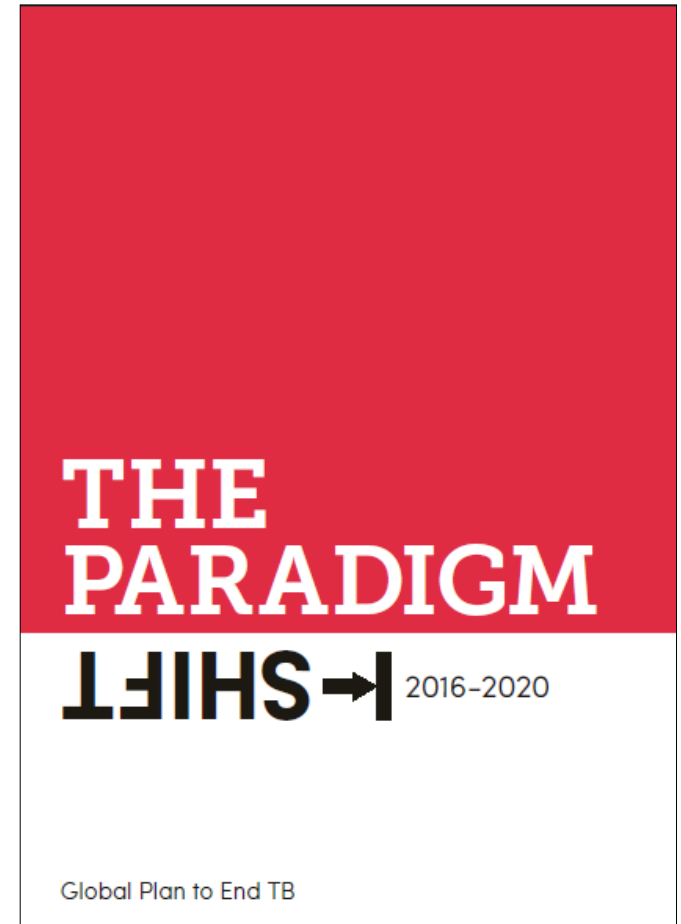
High quality diagnosis of tuberculosis and drug resistance is available for all people in all settings.

## Mission

Foster development and evaluation of new diagnostics for tuberculosis by serving as a **coordination, communication and advocacy platform** for all stakeholders in TB diagnostic research and development.

# Supporting the End TB Strategy and the goals of the *Global Plan to End TB 2016-2020*

- **Objective 1:** Ensure that the critical knowledge enabling the development of new diagnostic tools and solutions is available
- **Objective 2:** Develop a portfolio of new diagnostic tools coupled with a package of accompanying solutions to ensure that results translate into patient treatment
- **Objective 3:** Evaluate the portfolio of new diagnostic tools and solutions, including new detection strategies, approaches for optimized use, and innovative delivery mechanisms
- **Objective 4:** Ensure that fully validated new diagnostic tools and solutions are widely available and appropriately used in endemic countries



# The roadmap to new TB diagnostics

Together with other new tools, novel diagnostics will be critical to fully realize the targets of the End TB strategy

## PRIORITY AREAS AND REQUIRED DIAGNOSTIC TOOLS

1

Improved TB case  
detection

Tests for use at  
all levels of the health  
care system, including  
at the point of care



Task Force  
Biomarkers for TB  
point-of-care tests

2

Universal access to DST  
Rapid and simple tests for  
detection of drug  
resistance in decentralized  
settings



Task Force  
NGS for detection  
of drug resistance

3

Support TB elimination  
Tests for predicting the  
risk of progression from  
latent infection to active  
TB disease



Task Force  
Tests for progression  
of LTBI

# NDWG Core Group

## Co-Chairs

- Catharina Boehme, FIND
- Daniela Cirillo, San Raffaele Scientific Institute

## Core Group Members (and constituency)

- Martina Casenghi, MSF (NGOs)
- Christopher Gilpin, WHO Global TB Programme (WHO and GLI)
- Stefan Niemann, Borstel Research Center (Academia)
- Camilla Rodrigues, Hinduja Hospital (High-burden countries)
- Philippe Jacon, Cepheid (Industry)

## Task Forces and Coordinators

- Biomarkers for TB point-of-care tests  
Tobias Broger, FIND
- Next-generation sequencing for detection of drug resistance  
Stefan Niemann, Borstel Research Institute
- Tests for progression of LTBI to active disease  
Alberto Matteelli, University of Brescia

SUPPORT  
STRATEGIC  
GOALS

**Secretariat** Alessandra Varga, FIND



*Thank you!*

- NDWG Core Group members
- NDWG Task Force Coordinators and all Task Force members
- Lucica Ditiu and Darivianca Laloo, Stop TB Partnership
- New Vaccines and New Drugs Working Groups Chairs and Secretariats

# The roadmap to new TB diagnostics

Supporting the End TB Strategy and the goals of the  
Global Plan to End TB 2016-2020

## NDWG Strategic Framework **GOALS**

**1** Reduce the gap of 3 million cases missed each year and improve TB case detection



### Required Tests

Tests that can be used at all levels of the healthcare system, including at the point of care, for all populations, including children and those living with HIV

- **Biomarker test:** POC non-sputum based
- **Triage test:** simple and low-cost for screening
- **Smear replacement test:** POC sputum-based

TPPs



### NDWG Task Force

Biomarkers for TB point-of-care tests



# The roadmap to new TB diagnostics

Supporting the End TB Strategy and the goals of the  
Global Plan to End TB 2016-2020

## NDWG Strategic Framework **GOALS**

- ② Enable timely and effective treatment to reduce mortality and ongoing transmission, and prevent antimicrobial resistance by ensuring universal access to DST



### Required Tests

Rapid and simple tests for detection of drug resistance in decentralized settings for existing and future drugs

- **Rapid DST:** for use at microscopy centres to select first-line therapy

TPP



### Task Force

Next-generation sequencing for detection of drug resistance





# The roadmap to new TB diagnostics

Supporting the End TB Strategy and the goals of the  
Global Plan to End TB 2016-2020

## NDWG Strategic Framework **GOALS**

- ③ Support the goal of disease elimination by addressing the reservoir of TB infection and efficiently introduce targeted preventive therapy



### REQUIRED TESTS

Tests for better detection of LTBI and for predicting the risk of progression from latent infection to active TB disease

- **Test for progression of LTBI**

TPP



### Task Force

Tests for progression of LTBI to active disease

