

Global and Regional Situation of TB

And
The END TB Strategy

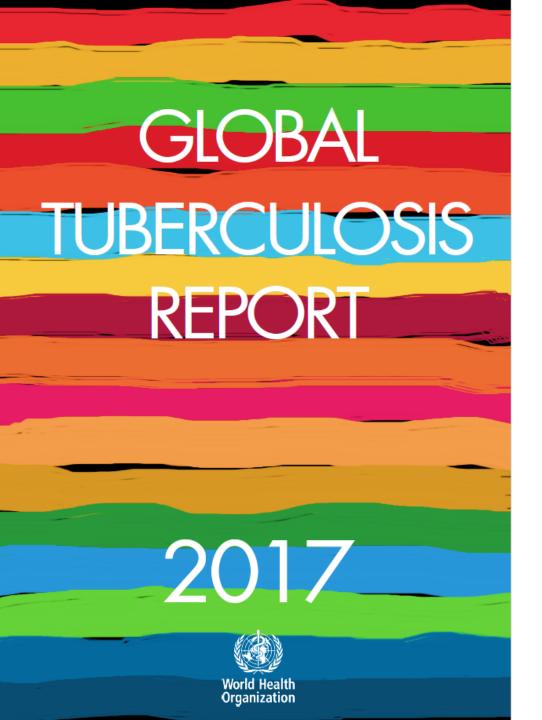
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MMA TB Forum, 3 Feb 2018









Global TB Situation

In the context of:

 Global TB strategies and broader development goals, and associated targets

Based on:

- Annual rounds of global TB data collection (since 1997) implemented by WHO
- Other databases: WHO, World Bank, UNAIDS

Tuberculosis is the

leading infectious killer

Source: Global TB Report

2017

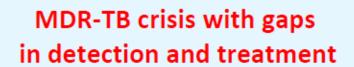






TB is the top infectious killer worldwide

TB is also the leading cause of deaths due to antimicrobial resistance and among people with HIV



Only 1 in 5 needing
MDR-TB treatment were
enrolled on it

Funding shortfall for TB implementation

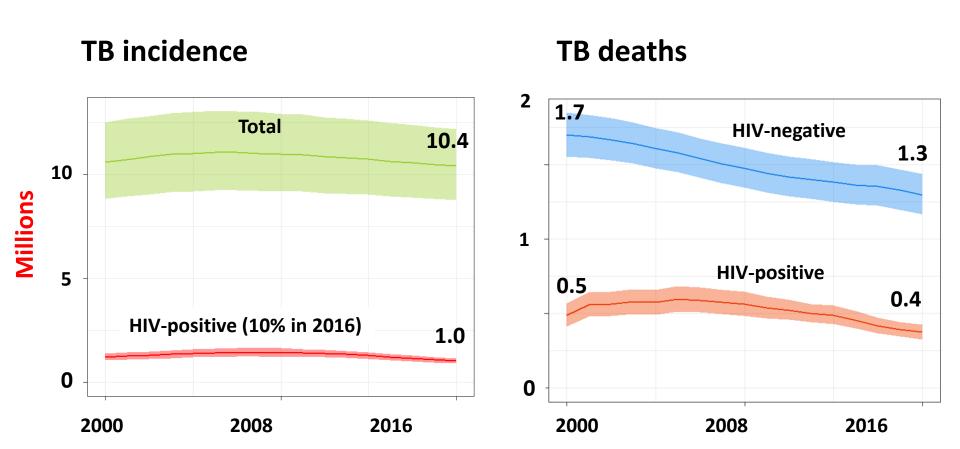
Gap of over
US\$1.2 billion per year
for TB research

Current actions and investments are falling far short





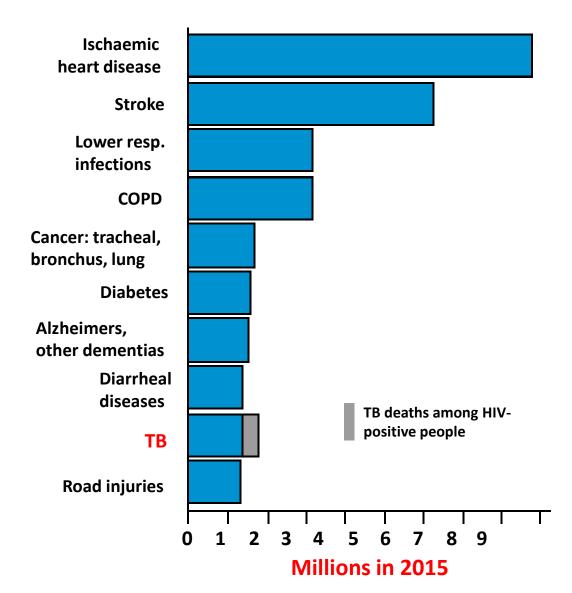
Estimates of TB disease burden 2000-2016



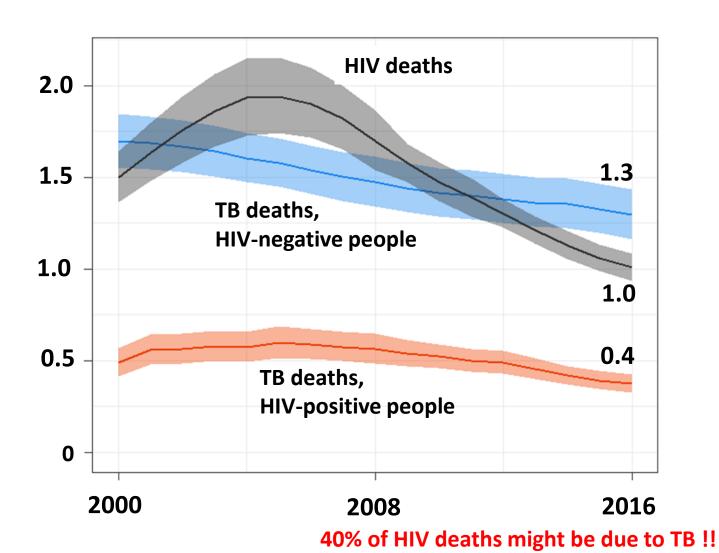
Incidence rate falling at about 2% per year

Mortality rate falling at about 3% per year

TB is one of top 10 causes of death worldwide ranks 9th, top infectious disease killer

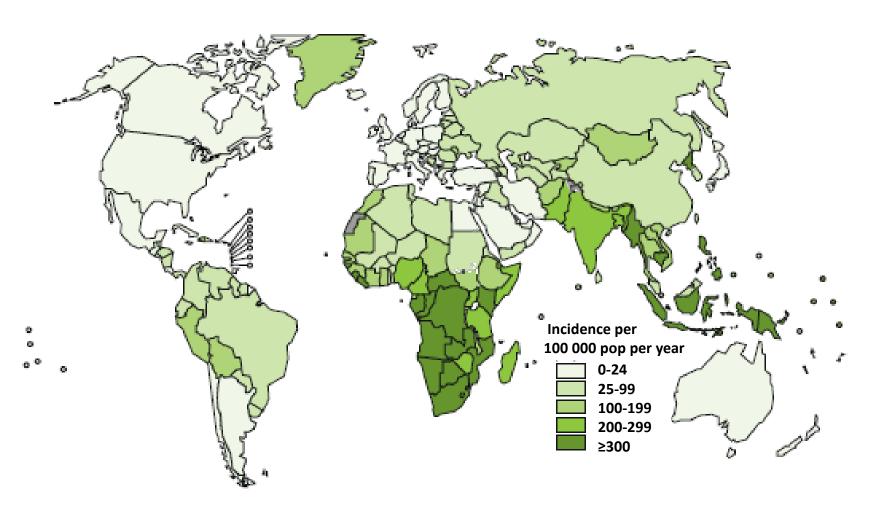


TB has caused more deaths than HIV since 2012



TB is in every country

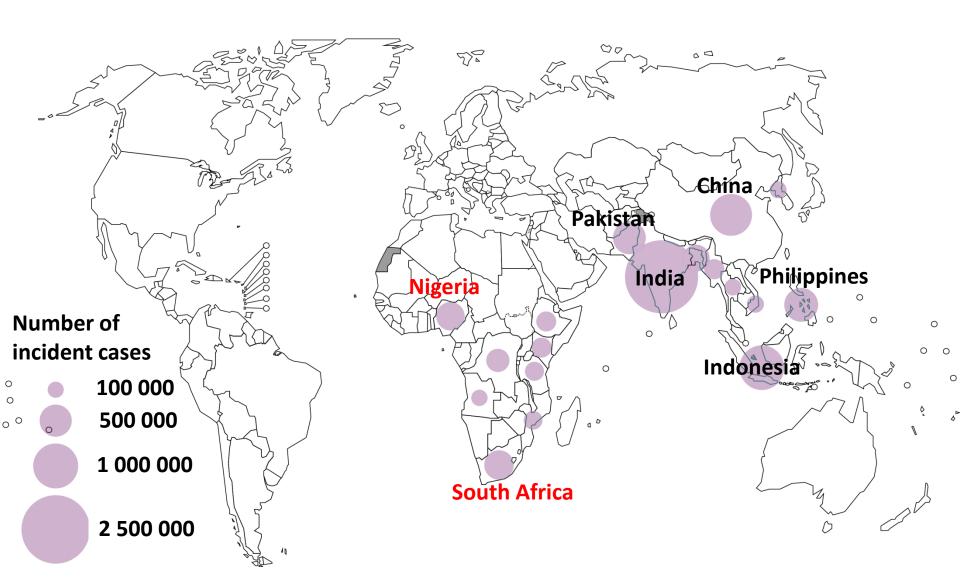
Highest incidence rates in Africa and parts of Asia



45% South-East Asia, 25% Africa, 17% Western Pacific, 7% Eastern Mediterranean, 3% Americas, 3% Europe

5 countries = **56%** of cases in **2016**

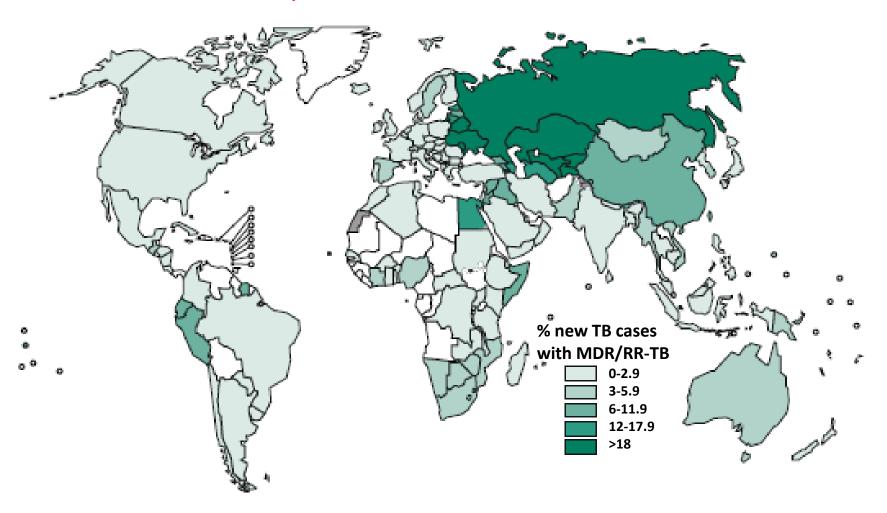
7 countries account for 64%



circles shown for countries with at least 100,000 incident cases in 2016

Drug-resistant TB in every country (n=160) where it has been measured

Globally: 600,000 new cases of TB resistant to rifampicin 490,000 of which had MDR-TB



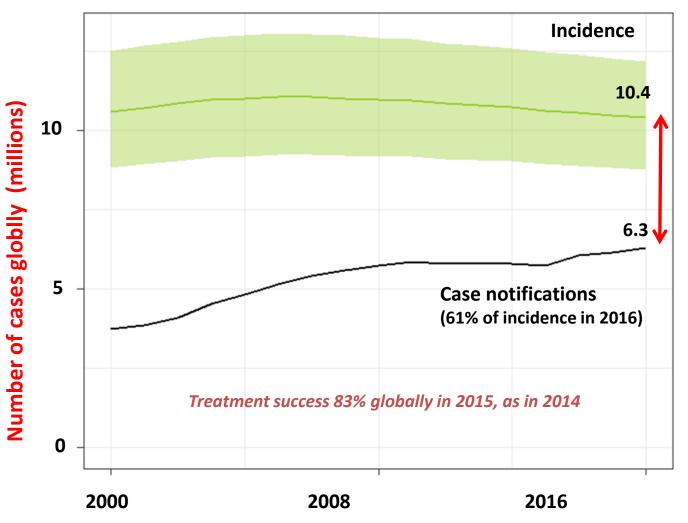
MDR/RR-TB: 3 countries, 47% cases





GAPS NEED TO TACKLE

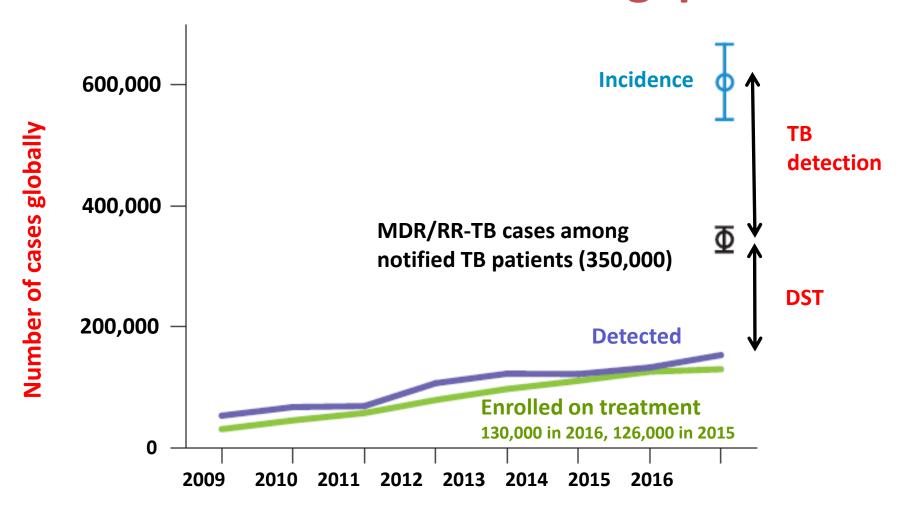
Case notifications increasing but large incidence: notification gap



4.1 million cases

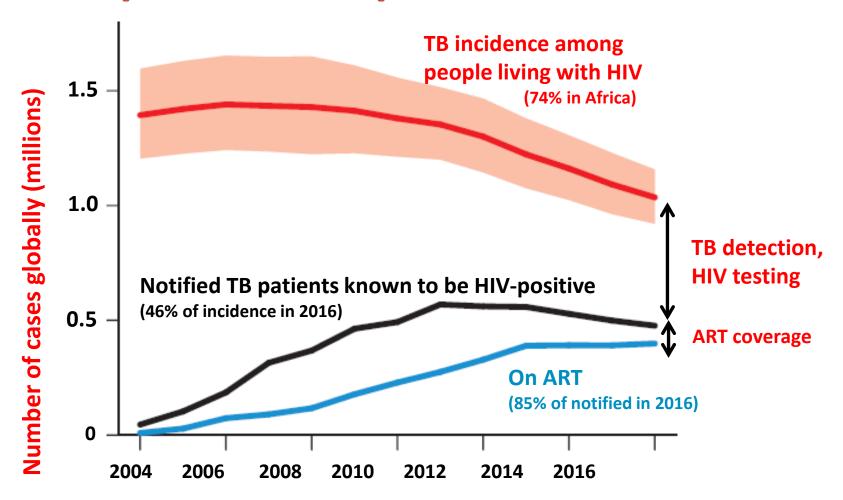
Underreporting, under-diagnosis

Drug-resistant TB: treatment enrolments and gaps



Treatment success 54% in 2014, up from 52% in 2013

Global gaps in coverage of ART for HIV-positive TB patients



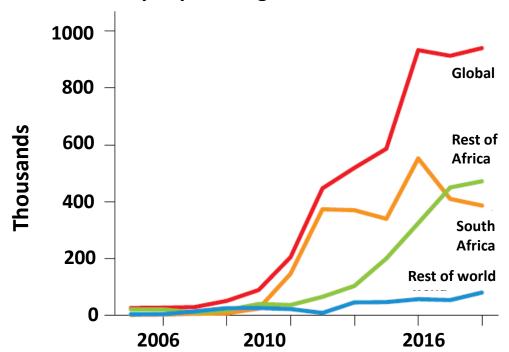
Treatment success: 78% in 2015, up from 75% in 2014

TB prevention services

Preventive treatment for latent TB infection (LTBI), BCG vaccination, infection control

1.7 billion people globally have LTBI, 23% world's population

Preventive treatment for LTBI, people living with HIV



Children <5, household contacts 162,000 started on treatment for LTBI in 2016, 13% of the estimated 1.3 million eligible (up from 7% in 2015)

18 (down from 21) of 30 high TB/HIV burden countries did not report data

Two overarching messages

- 1. Burden of TB disease still high, affecting all countries, all ages, men, women and children
- 2. There is progress, but it is slow not fast enough to reach targets or make major headway in closing persistent gaps

The opportunity of the SDG era to reach the end TB targets





SDG TARGET 3.3 – BY 2030

END THE TB EPIDEMIC









The End TB Strategy:

Vision, Targets and Pillars



Vision:

A world free of TB Zero TB deaths, Zero TB disease, and Zero TB suffering

Goal:

End the Global TB epidemic

	PILLAR 1		PILLAR 2		PILLAR 3			20:
	Integrated, patient- centered TB care and prevention	λ××	Bold policies and supportive systems	XXX	Intensified research and innovation		Reduction in number of TB deaths compared with 2015 (%)	3
4	Government stewardship and accountability, with monitoring and evaluation Building a strong coalition with civil society and communities						Reduction in TB incidence rate compared with 2015 (%)	20
			ooting human righ		equity obal collaboration		TB-affected families facing catastrophic costs due to TB (%)	C

	MILES	TONES	SDG*	END TB	
	2020	2025	2030	2035	
Reduction in number of TB deaths compared with 2015 (%)	35%	75%	90%	95%	
Reduction in TB incidence rate compared with 2015 (%)	20%	50%	80%	90%	
TB-affected families facing catastrophic cost due to TB (%)	s 0%	0%	0%	0%	

TARGETS





DOTS → STOP TB Strategy → End TB Strategy



Government stewardship and accountability, with monitoring and evaluation

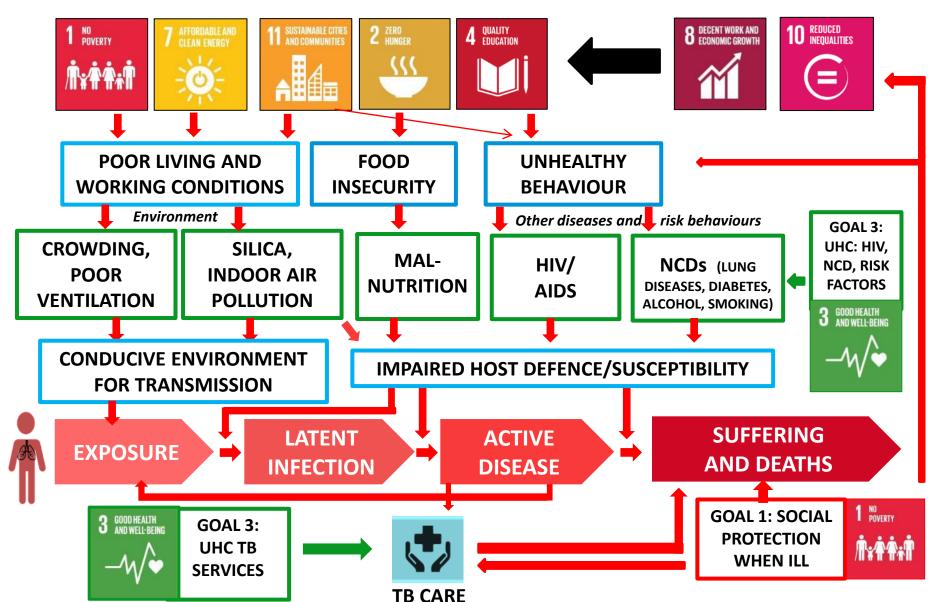
Building a strong coalition with civil society and communities

Protecting and promoting human rights, ethics and equity

Adaptation of the strategy and targets at country level, with global collaboration

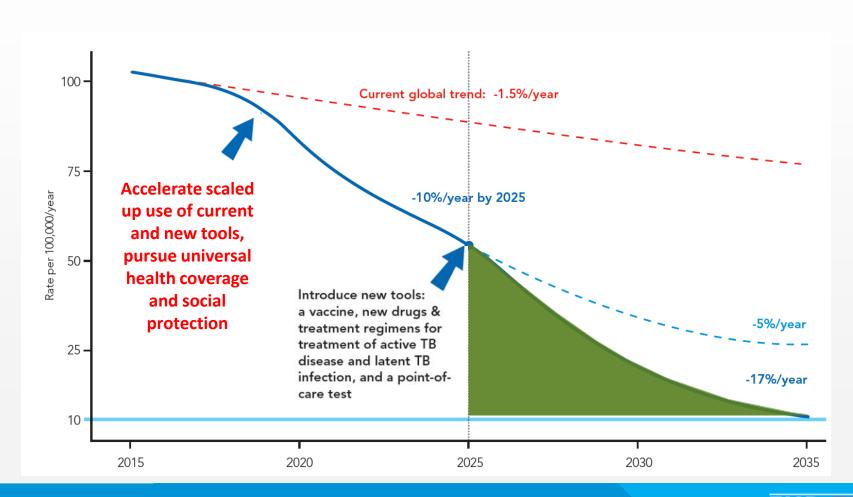


Using a multisectoral approach to end TB

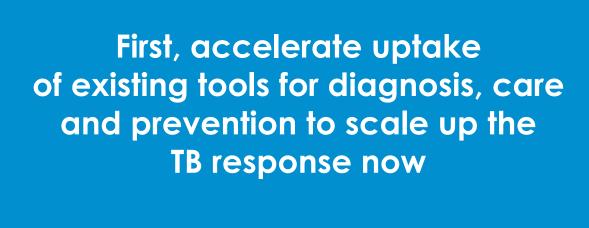


Accelerating to reach the WHO & SDG End TB targets







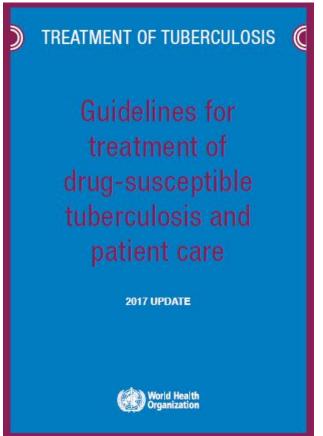




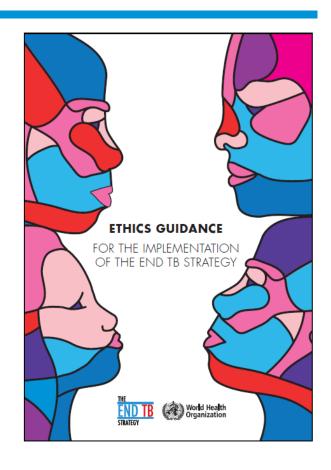




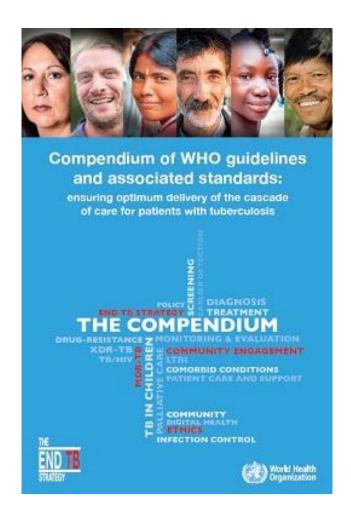
New guidelines for treatment of DS-TB and ethics guidance



- Provision of a package of interventions – on patient care and support for all patients.
- Use of digital health technologies
- Effective treatment
 administration options such as
 community or home-based
 treatment, over facility-based
 treatment.
- Decentralized model of care over a centralized model for patients on MDR-TB treatment.



Compendium of WHO guidelines

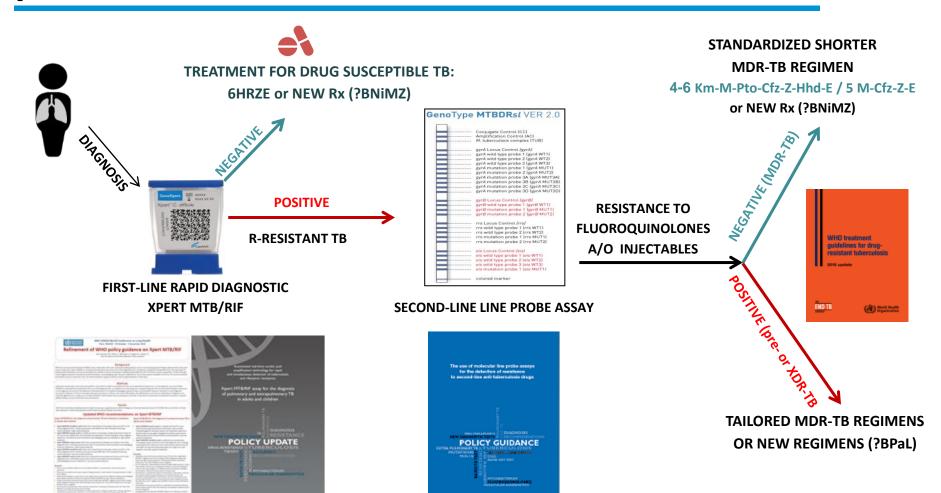


With 33 associated standards

http://www.who.int/tb/features_archive/TB_guidelines_associated_standards/en/

Precision in TB diagnosis and treatment

possible in 2017









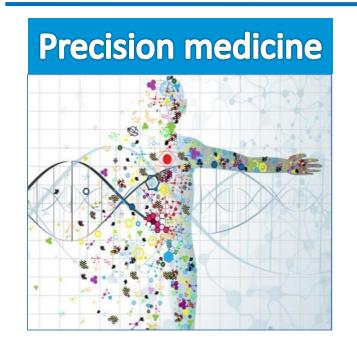
Second, look ahead to harness innovations

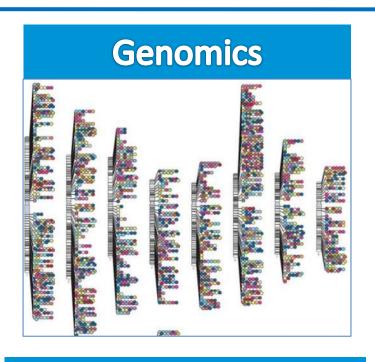






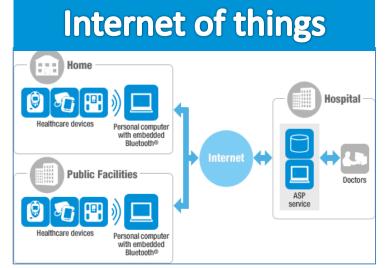
Transformational innovations to End TB

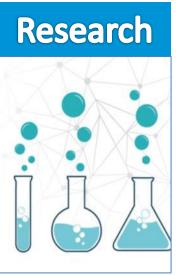












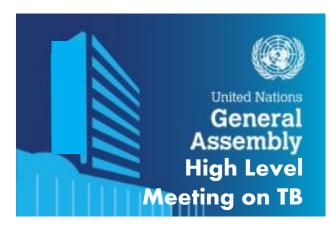
High-level spotlight on ending TB



FIRST WHO GLOBAL MINISTERIAL CONFERENCE ENDING TB IN THE SUSTAINABLE DEVELOPMENT ERA: A MULTISECTORAL RESPONSE

16-17 NOVEMBER 2017, MOSCOW, RUSSIAN FEDERATION

















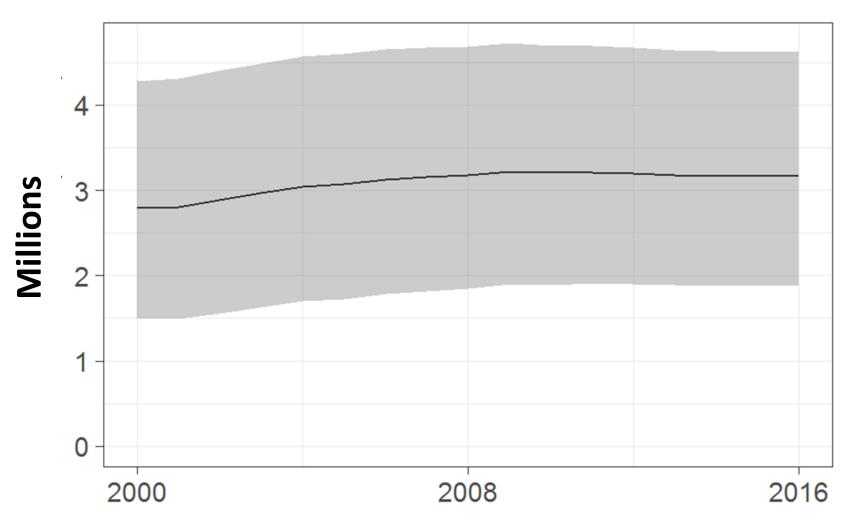
Moscow declaration

- Move rapidly to achieve universal health coverage by strengthening health systems and improving access to people-centered TB prevention and care, ensuring no one is left behind.
- Mobilize sufficient and sustainable financing through increased domestic and international investments to close gaps in implementation and research.
- Advance research and development of new tools to diagnose, treat, and prevent TB.
- Build accountability through a framework to track and review progress on ending TB, including multisectoral approaches.
- Ministers also promised to minimize the risk and spread of drug resistance and do more to engage people and communities affected by, and at risk of, TB.

LEARNING FROM COMMUNITY IN REGIONAL NEIGHBORS

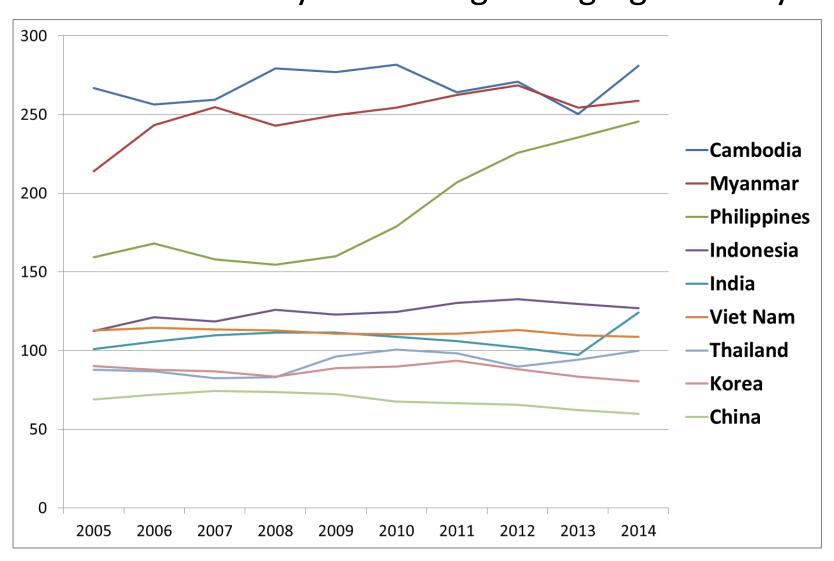
Lives saved by TB treatment

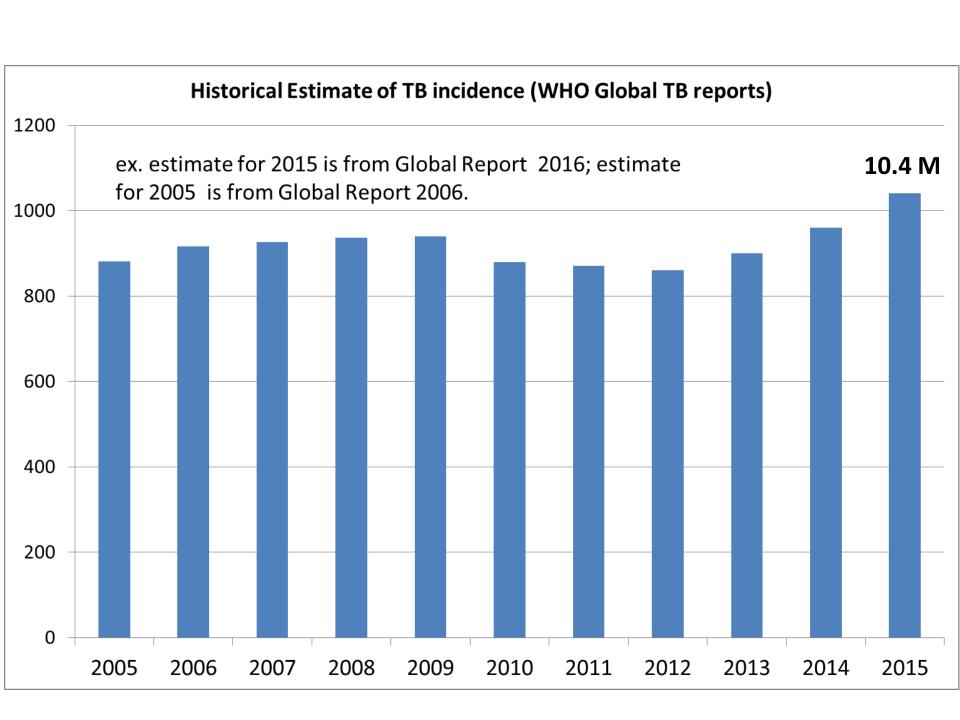
cumulative total 53 million 2000-2016



We have been saving lives. It is a great achievement. However......

Case Notification Rate – after the completion of DOTS Expansion, 2005, in Asia: No Decline of TB Where economy has been growing significantly



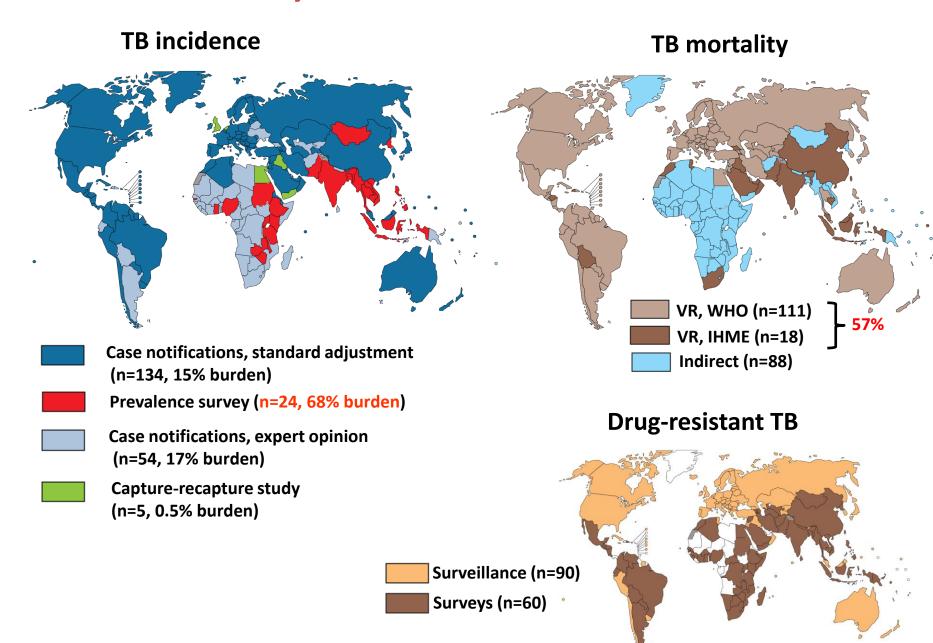


National TB Prevalence Surveys

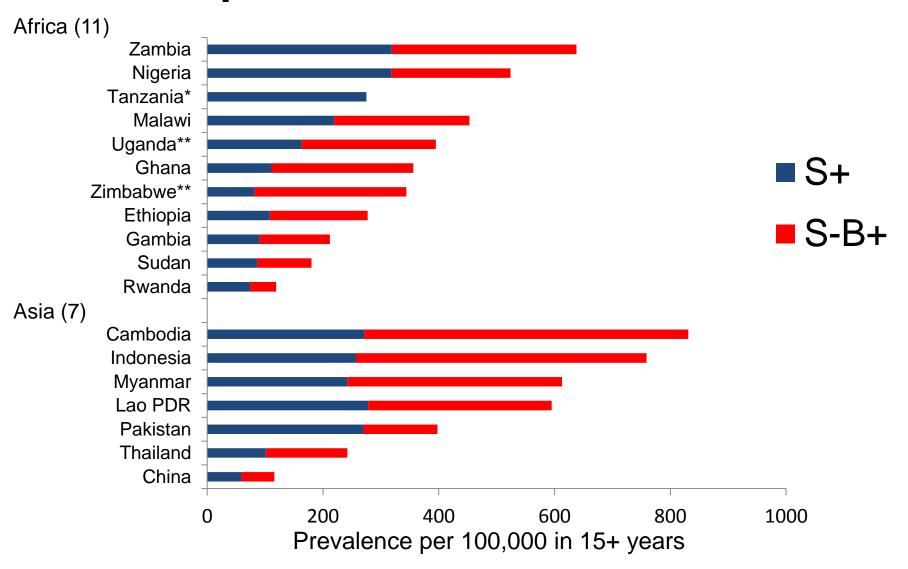




Data sources, TB burden estimates

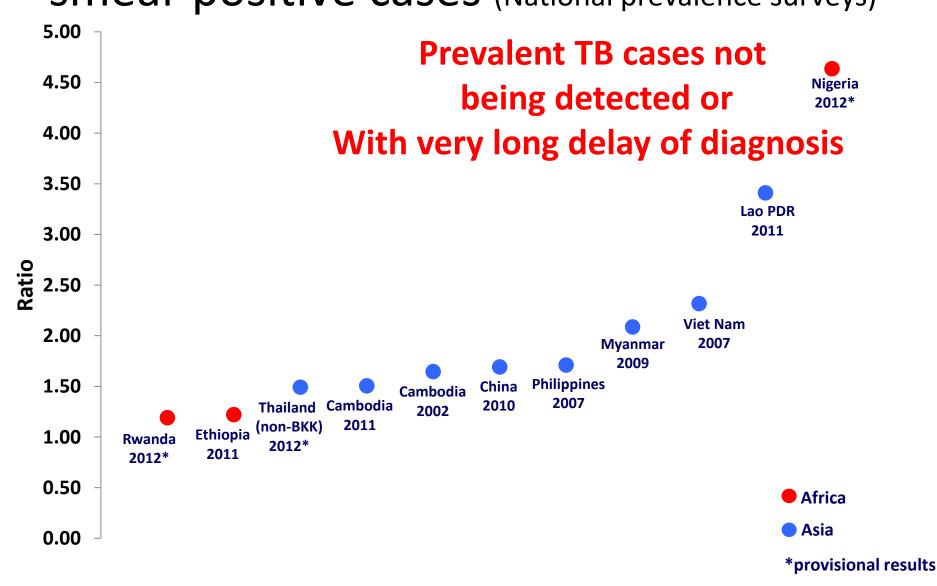


National TB prevalence survey results completed between 2010 and 2015



^{*}WHO's analysis with Xpert MTB/RIF results on S+ slides at SRL Antwerp ** Provisional Results

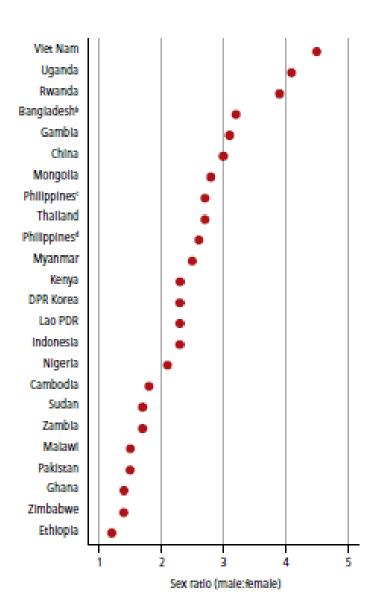
Prevalence to notification ratio: smear positive cases (National prevalence surveys)



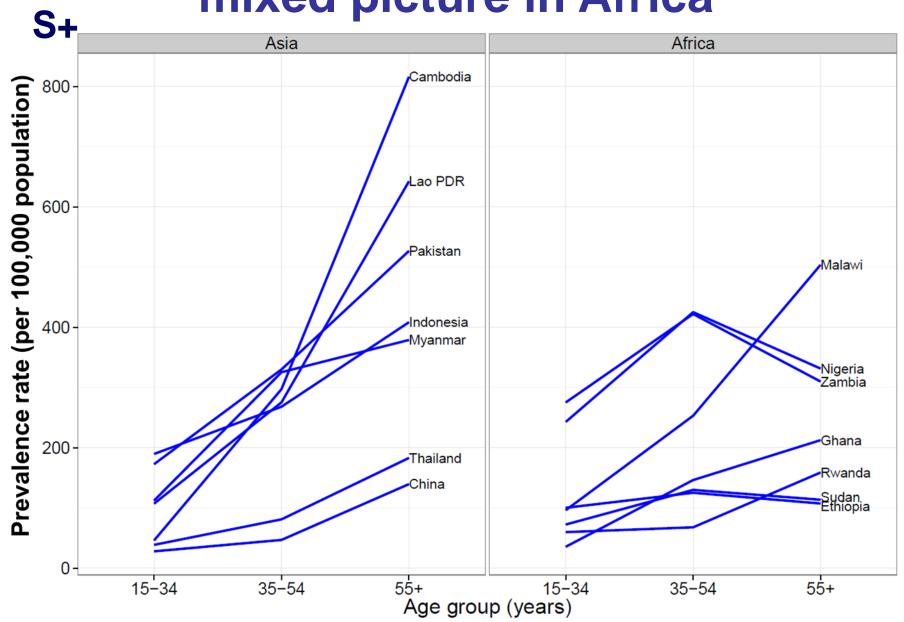
Don't forget about the men!



Male Female Ratio of TB prevalence

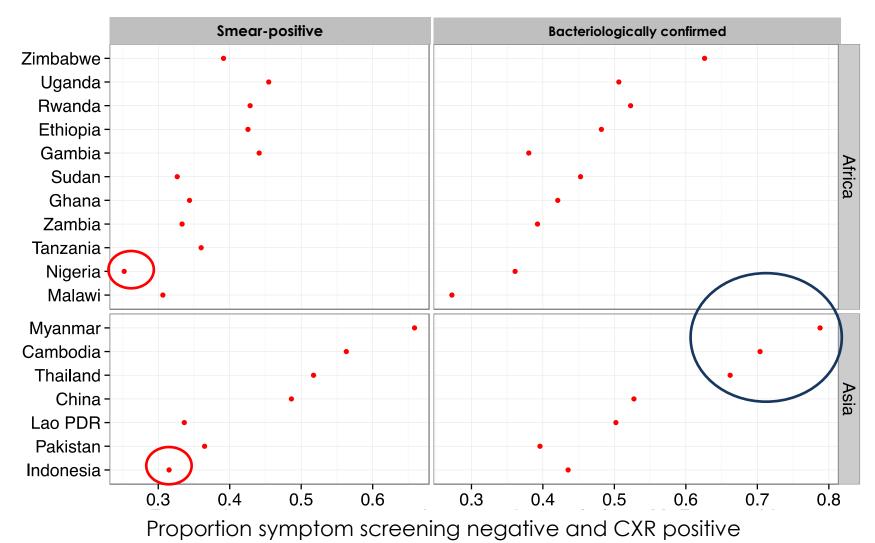


Ageing epidemic in Asia, mixed picture in Africa

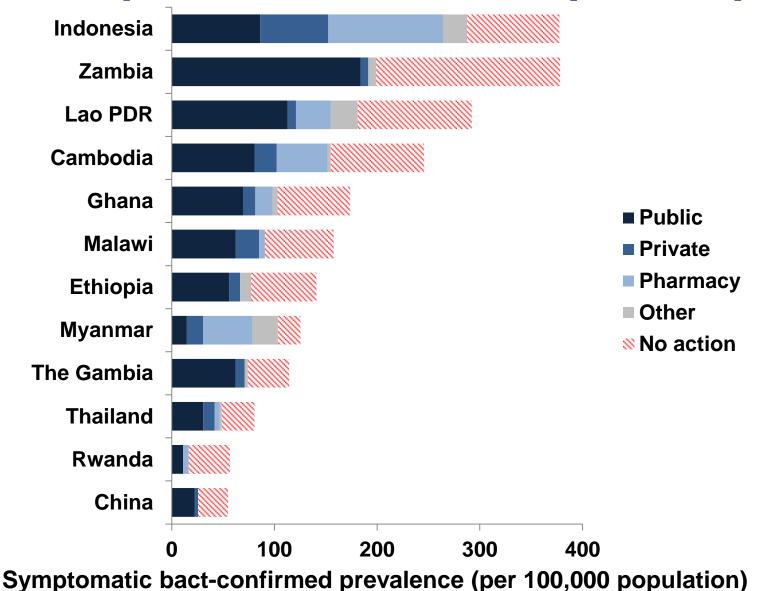


Many cases don't report symptoms meeting criteria for presumptive TB

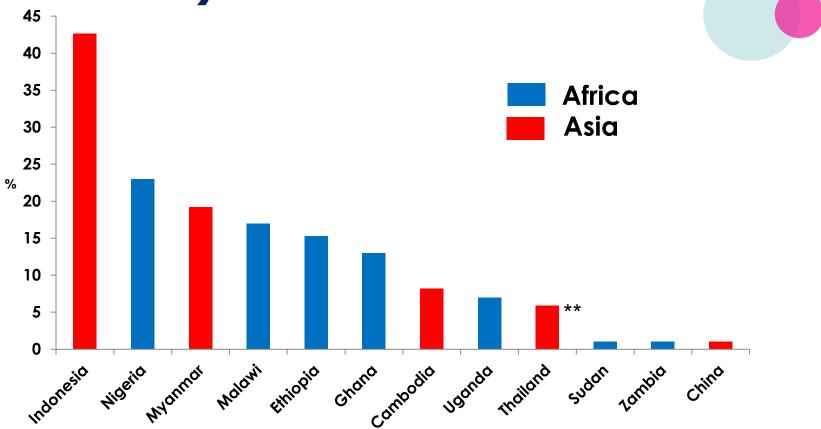
Typically 30–50% for both S+ and bact-confirmed; up to 70-80%



Many symptomatic TB cases had sought care prior to detection by survey



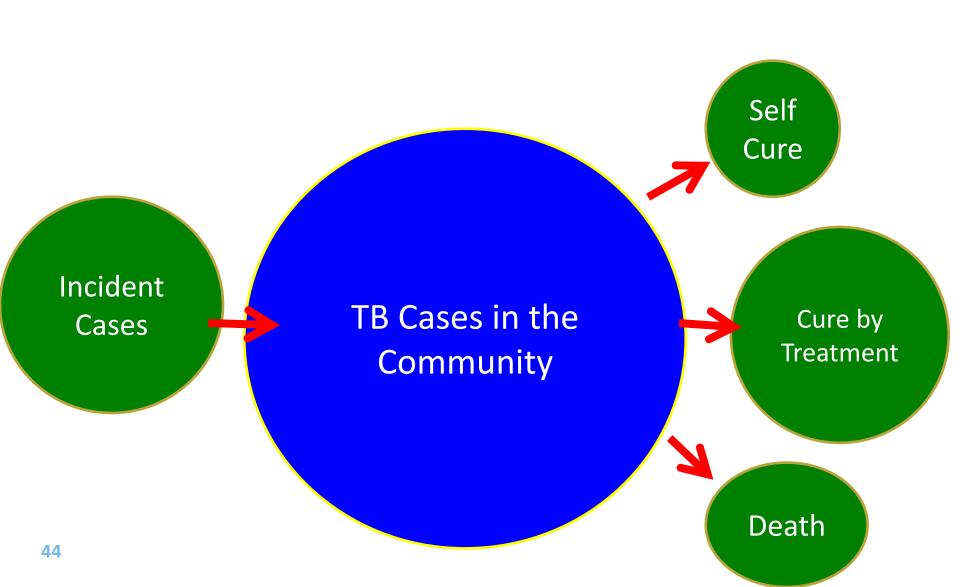
High proportion of TB patients being treated in private/NGO sector (Non-NTP) in several countries*



^{*}Those currently on TB treatment at the time of the survey (excluding unknown location)

^{**} Thailand - Survey excluding Bangkok

TB prevalence surveys: What is it measuring?

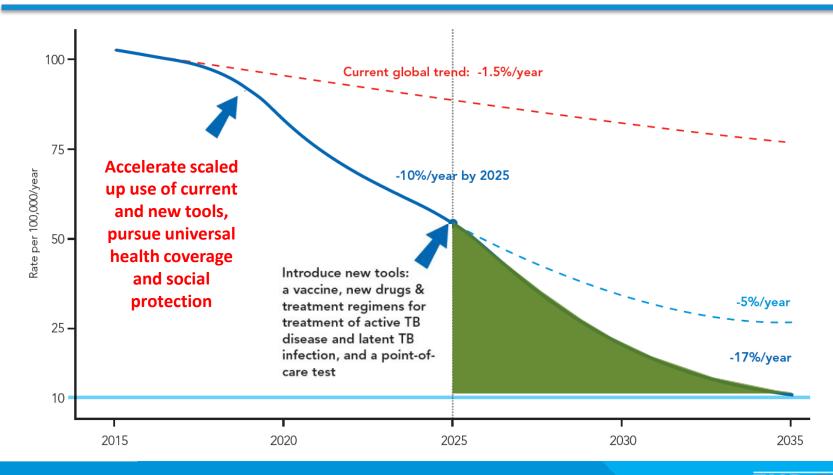


20% of population occupies 50% of community TB burden

- Hot spot villages with poor access
- the Elderly (≥ 55y): Care givers to grand children; NCD's comorbidity
- Men (≥35y)
- Urban < Rural → Urban > Rural < Remote
 - Congestion
- Urban Poor/ Migrants >> Middle class / Original Population
- Workers in informal sector (non regular employees)
- MDR-TB in Yangon

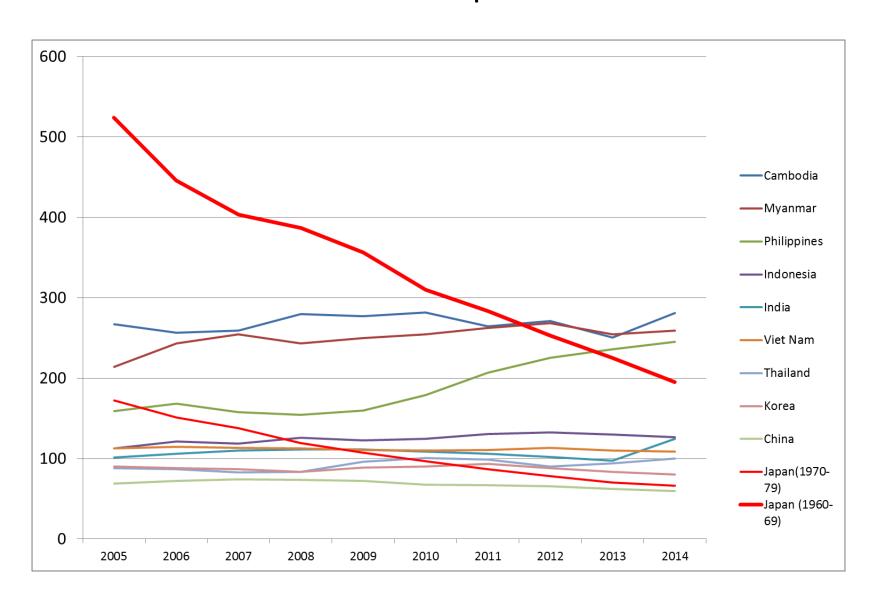
The End TB Strategy







Yes, WE CAN!! - Japan 1960-79: Just the contributions of economic development and UHC?



Thank you very much

