

# Experience using models to support TB control policies in South Africa

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# Outline

- Modelling Initiatives
- Key impacts facilitated by modelling
- Enablers of impact

= > Models have been really useful in informing policy in SA

- Future plans

# Initiative 1

## TB MAC TB Targets multi- modelling exercise on feasibility of End TB Strategy 2025 Targets - Overview



- Multi-model comparison exercise to assess feasibility of reaching post End TB Strategy 2025 targets
- Public health impact and cost-effectiveness of a range of interventions/activities
- Close interaction from NDOH and other stakeholders to define interventions and feasible scale up



# Initiative 1

## TB MAC TB Targets multi- modelling exercise on feasibility of End TB Strategy 2025 Targets – Key results

- End TB Strategy 2025 targets are achievable in South Africa with current tools
- Requires a combination of approaches
- Analysis provided starting point for NDOH TB Investment Case



# Initiative 2

## South African TB Investment Case

- The South African TB Investment Case utilised mathematical and economic modelling to project the impact and cost of the StopTB Global Plan's 3 '90's strategy
- First ever NDOH TB Investment Case in South Africa
- Joint investment case with HIV



# Initiative 2

## South African TB Investment Case

- Phase 1 (COMPLETED)
  - Produced national level epidemiological impact and cost estimates of the implementation of the three 90s strategy
- Phase 2 (ONGOING)
  - Extended cost model to incorporate technical efficiencies and interventions
  - Extend use of model to project the epidemiological impact of the three 90s strategy for TB at the provincial level
- Phase 3 (TBD)

# Initiative 3

## TB Think Tank

### - Mission



To advise the NDoH on TB control policy and implementation in order to achieve the NSP/World Health Assembly targets for TB



# Initiative 3 Think Tank - Activities



The National TB Think Tank will consider policy and implementation questions requiring evidence to inform policy by

- Collating, reviewing, synthesizing and evaluating evidence
- Requesting evidence, and if necessary, conducting research to inform policy
- Making recommendations to NDOH for policy and implementation in the form of policy briefs
- Assisting the NDOH in developing operational guidelines
- Advising NDOH on key implementation activities





# Initiative 3

## TB Think Tank

### - Working Groups



#### 1. Modernizing a national response to TB aligned to the Post 2015 GTP strategy

- Know your epidemic (systematic analysis of data)
- Define your interventions: e.g. access to care, active case finding
- Plan your response (including modelling and economics)

#### 2. Implementation and delivery

- ICT, M&E, surveillance
- Forecasting and budgeting
- Monitor implementation of new policy
- Human resources planning and training

#### 3. New tools: diagnostics, drugs and vaccines





# Key impacts facilitated by modelling

- Informed SA MRC research implementation funding call
- 1<sup>st</sup> TB conditional grant (ring fencing funds for TB at district level)
- Likely increased domestic funding for TB
- NDOH proposed use of Investment Case approach in other disease/health areas



# Enablers of Impact



- Think Tank
  - Facilitate communication between modellers/economists and NDOH
- Political will
- Funding for core activities and capacity building
  - Develop modelling and economic expertise in SA with good links to NDOH



# Future plans



- Investment Case
  - Extended cost model to incorporate technical efficiencies and interventions
  - Extend use of model to project the epidemiological impact of the three 90s strategy for TB at the provincial level

