

Why do we need a new approach?

The current one is clearly not working ...

- The notification gap is not closing fast enough
- Country strategies are often donor and or theme driven not evidence
- Available data is not utilised (systematically and correctly)
- Strategies largely concentrate on accelerated case finding & notification limited consideration of patients' & systems' needs (full package of care)
- Funding allocation is compartmentalised & often inefficient
- Planning ignores stakeholder comparative advantages & complementarity
- Ambitions do not match available resources
- Prioritization overrides optimization
- Patient needs are largely ignored



Strategic Focus



Close the gaps along the care continuum to find and cure ALL people with TB



Differentiated response by counties to address TB in local contexts



Optimise the implementation of TB services within UHC



Prevent infection, active disease, morbidity and mortality due to TB



Patient-centred approach that promotes quality of care



The Philosophy



NSP reflects a

patient-centred

approach to

planning and

evidence-based

prioritisation of

resource allocation

to close the gaps

along the patient

pathway to quality

care.

The NSP is operationalised through a partnership framework aligned to each stakeholder's comparative advantage.

Activities address
systemic and root
causes of the gaps
along the patient
pathway, suggesting
the complementary
roles of sub-national
and central
governments,
departments across the
Ministry of Health,
partners and other
sectors.



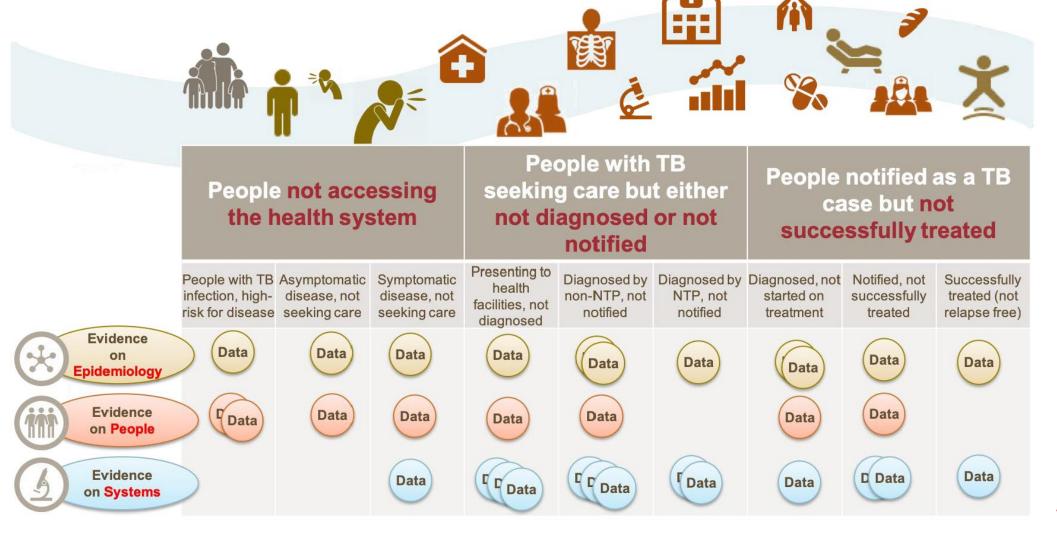


Additional benefits:

- Countries gain strategic advantage, capacity and a set of tailor-made (country specific) monitoring & planning tools
- Solid framework for evidence based progress monitoring
- Improved stakeholder buy-in, co-ownership and commitment
- Enhanced partner engagement and service delivery/ care network



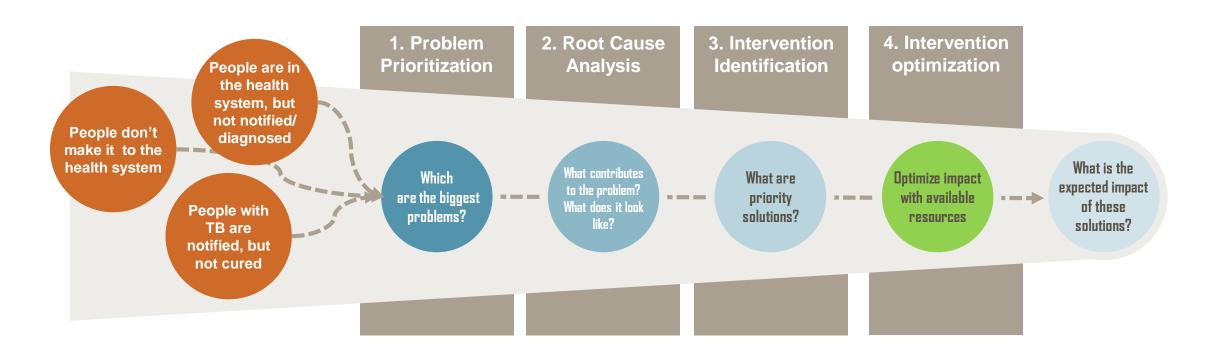
Data consolidation along the patient pathway





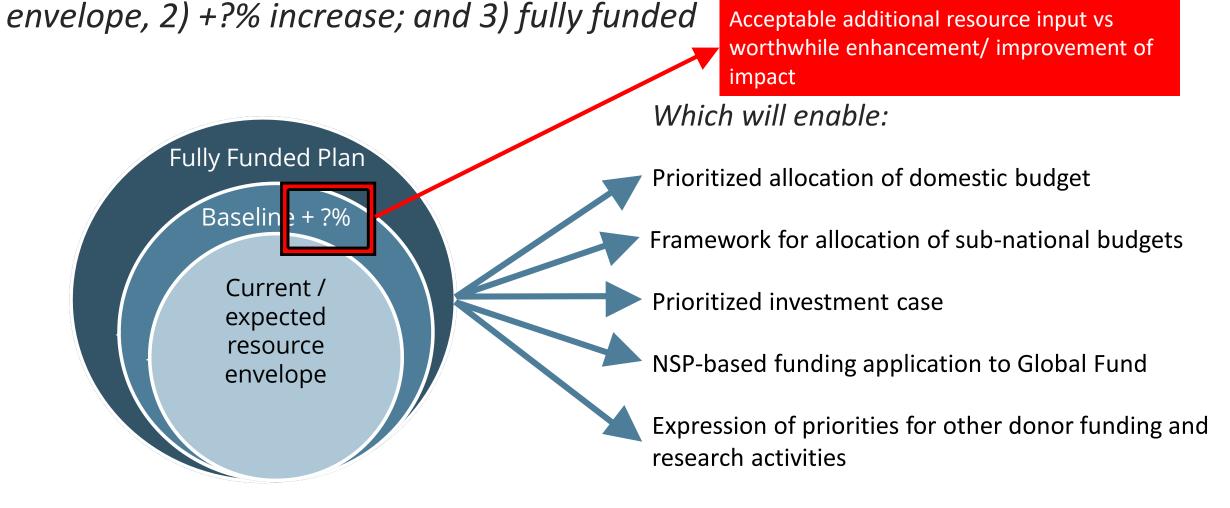
Framework for prioritization and planning

Reviewing the evidence about the biggest epidemiological challenges and the biggest challenges on a patient's pathway to care can help to identify which sets of problems should be priorities for the national TB programme.





Aim: To create a national plan that is prioritized to reflect optimal allocative efficiency given at least 3 funding scenarios: 1) current / expected resource



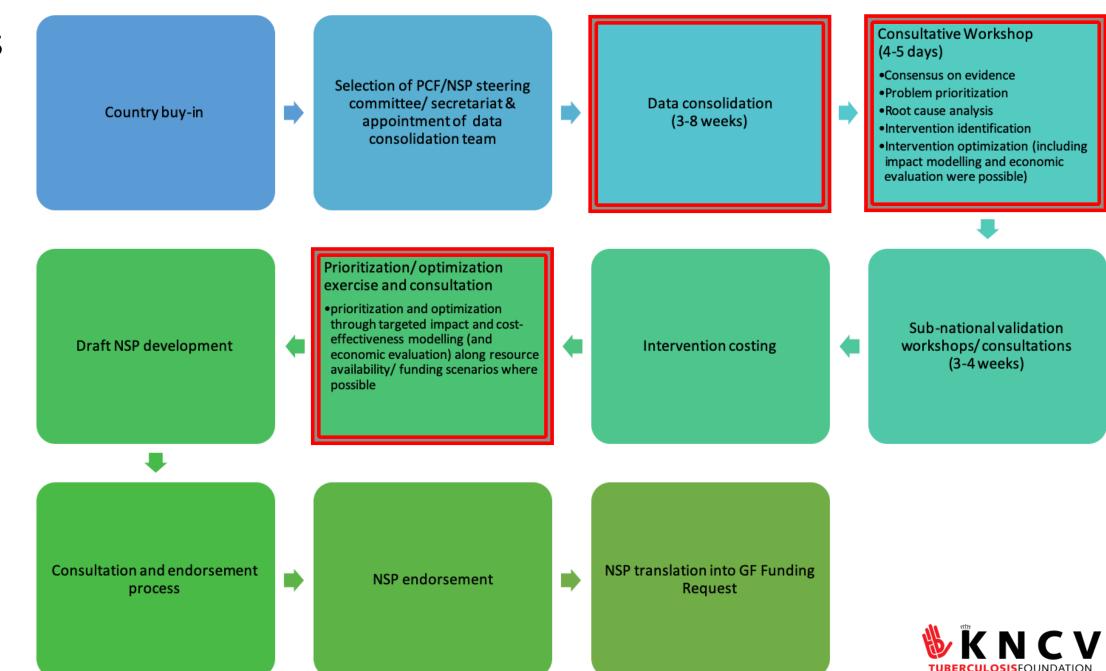


The Ask

- By 2021, at least 10 high TB burden countries will have prioritized NSPs that optimize impact given known resources.
- 6 countries will have successfully applied through the GF NSP tailored FR mechanism
- 3 of which will have applied NSP optimization using impact modelling and economic evaluation
- By End 2019 a draft NSP optimization guideline, and toolkit will be available



Process



Data consolidation:

Data and evidence mapped to the care continuum

■ Priority setting requires : Know your epidemiology, know your patient, know your system

Patient	People don't make it to the health system				People with TB in the health system, but not notified/diagnosed			People with TB are notified, but not cured		
	People with TB infection, high-risk for disease	Asymptomatic disease, not seeking care	Symptomatic disease, not seeking care		Presenting to health facilities, not diagnosed	Diagnosed by non-NTP, not notified	Diagnosed by NTP, not notified	Notified, not durable cure	Durable cure (relapse free)	Total
		5	6	DS-TB	1	2				
				DR-TB	3	4				
				TB/HIV						
Total										

Important metrics from available evidence resources (see following slides)



Data sources

Evidence on Epidemiology	Evidence on People	Evidence on thems						
TB Prevalence Survey	Patient Pathway Analysis	Service Osilability & Readiness Accinent						
Drug Resistance Survey	Relevant Policies and other relevant strategic plans and disease and social proclimes	Health Strategies and Plans						
Surveillance data	Surveys on healt Ceking behaviour parent costs, nutrition etc.	Health Expenditure Utilisation Survey						
Epidemiological Review	ondent driven surveys	Cascade analyses						
Mortality studies	A.dherence studies	Inventory studies						
National Strategic Plan	Joint TB and HIV Program Review	Health Sector Strategic Plan						
Global TB Report	Demographic Health Survey	World Social Protection Report						
Literature review of published articles, (TA) reports, grey literature								
ais								



PCF4NSP tools

PCF data consolidation & visualisation tool 3

Assessing the Alignment of TB Patient Care Seeking & TB Service Delivery

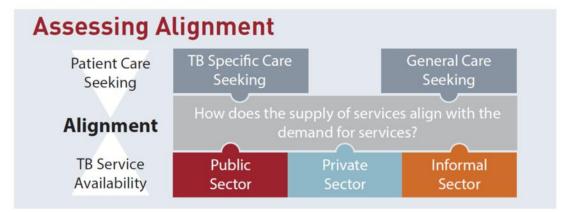
PPA WIZARD

How Do You Plan for Patient-centred Care?



If services do not meet patients where they are, care may be delayed or patients may be missed

 The PPA was designed to help public health programmes align with patient care seeking preferences







Country Profile data summary sheets 2017 EPI REVIEW ■ 2016 PREVALENCE SURVEY O Between 2012 and 2016 TB notifications Bright are print) decreased on average by 6% per year from 65% of people with TB symptoms had not sought. 98,400 to 73,066. The biggest decrease of health care for their symptoms prior to the survey, 10.4% was in 2016; 8,509 cases less than in the majority of them were men. Among the 2015 (n= 81,575). Since the introduction of prevalent cases who had sought prior care for GeneXpert there has been a slight increase in their respiratory symptoms, 80% of them had not Street O the number of bacteriologically confirmed cases been diagnosed with TB before the survey. but the overall impact on case notifications O Of those who provided a reason for not seeking ■ 2017 PATIENT PATHWAY ANALYSIS 2016 INVENTORY STUDY (1/2) O In the subcounties sampled, 715 of 3409 smear-positive TB cases in laboratory registers were not found in TIBU. The estimated level of under-■ 2013 HEALTH EXPENDITURE UTILIZATION SURVEY 2017 WHO GLOBAL TB REPORT O 12.7% of patients reported some sickness. did not seek care, down from 22.8% in 2003 O Nearly 40% of these people reported that the did not consider their illness serious enough

■ PEOPLE WITH TB IN THE SYSTEM, NOT NOTIFIED OR DX

Presenting to health facilities, not diagnosed

- Only 43% of people who seek care are likely to visit a health facility with capacity for DS-TB diagnosis on their first visit to the health care system. Even fewer are likely to receive a DR diagnosis on their first visit.
- Among bacteriologically confirmed cases, 5% were on current TB treatment, 24% had a past history of TB treatment, and 71% had no history of TB treatment. Among the prevalent cases who had sought prior care for their respiratory symptoms, 80% of them had not been diagnosed with TB before the survey.

2016 Prevalence Survey

2017 Patient Pathway Analysis

Diagnosed, not notified

- The estimated level of under-reporting of smear-positive TB cases in Kenya was 20.7% (95%Cl 18.4–23.0). In the subcounties sampled, 715 of 3409 smear-positive TB cases in laboratory registers were not found in TIBU.
- Q Under-reporting was greatest in high TB burden subcounties (23%) and lowest in low TB burden subcounties (13%). The highest level of under-reporting occurred in the Nairobi region (33%), while the lowest occurred in the North Eastern region (12%)
- The gap between prevalence and notification rates is higher among males, age groups 25-34, and the older age group of 65 years and above.
- O In 2016 the ratio of children under 5 to children aged 5-14 years was 1.0:1.0 which is lower than the expected range of 1.5-3:1 indicating that there is under-diagnosis and/or under-reporting in this age group.

Diagnosed by private sector, not notified

- 2 41% of people initiate their care seeking journey in private (formal or informal) facilities.
- Diagnostic capacity exists in the private sector, however notifications from the private sector only account for 12% of the estimated burden
- In multivariable analysis, unreported cases were significantly more likely to have been diagnosed at a private facility (aOR 2.6, 95%CI 1.8–3.9)

@ 2014 DHS

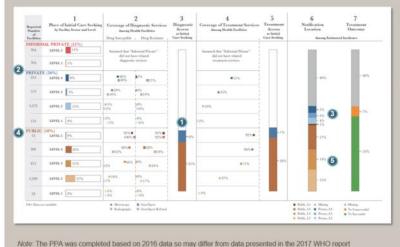
(1) 2013 HEUS

2016 Inventory Study

Diagnosed by public sector, not notified

- 3 58% of people initiate their care seeking journey in
- 6 Diagnostic capacity exists in Levels 2-5 of the health care system, and notifications from the public sector accounted for approximately 47% of the estimated burden.
- 84.5% of total cases found in the study were coming from public health facilities
- 6 Of those unreported cases, 81% were coming from public health facilities

2017 PATIENT PATHWAY ANALYSIS

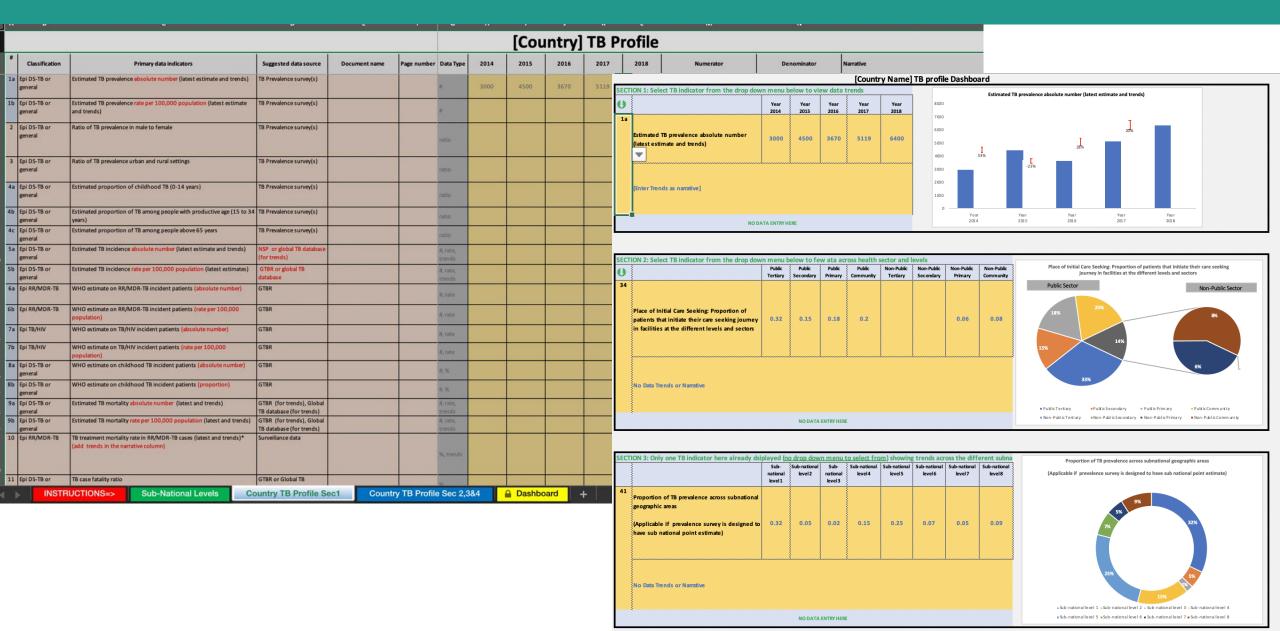


Only 43% of people who seek care are likely to visit a health facility with capacity for DS-TB diagnosis on their first visit to the health care system. Even fewer are likely to receive a DR diagnosis on their first visit

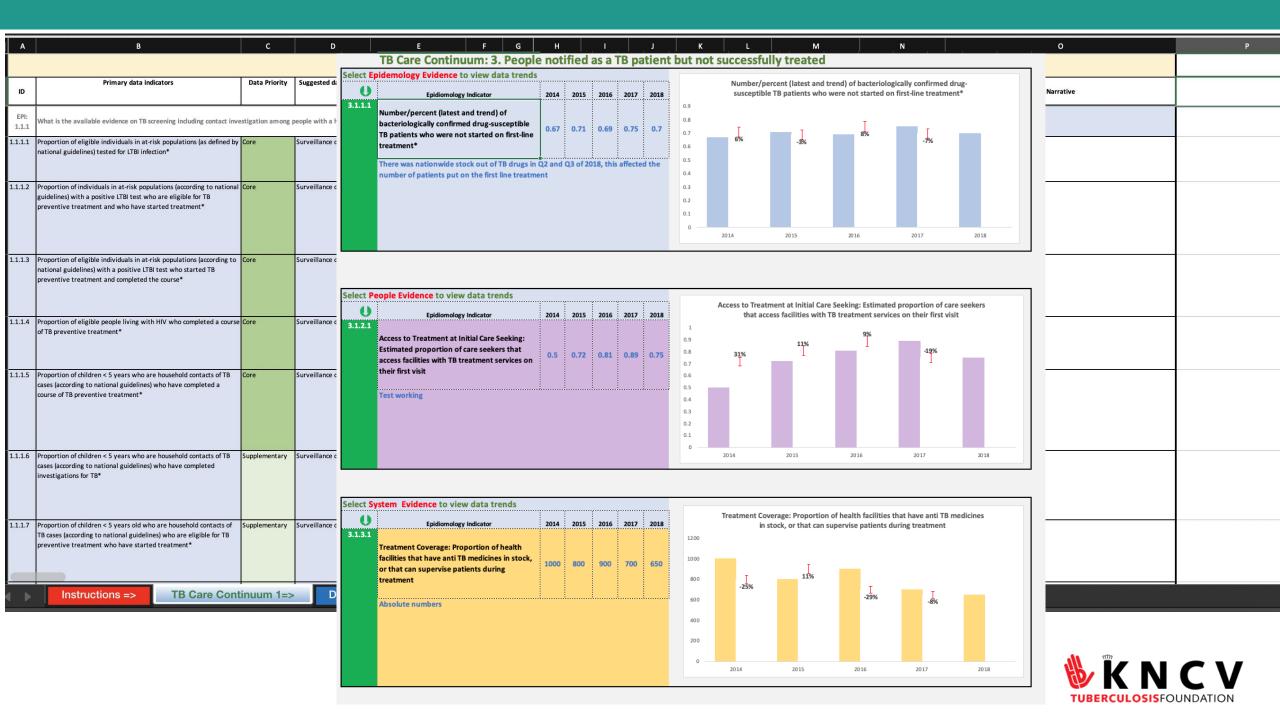
2017 WHO TB Report

- 41% of people initiate their care seeking journey in private (formal or informal) facilities.
- Diagnostic capacity exists in the private sector, however only notifications from the private sector only account for 12% of the estimated burden
- 58% of people initiate their care seeking journey in public facilities.
- O Diagnostic capacity exists in Levels 2-5 of the health care system, and notifications from the public sector accounted for approximately 47% of the estimated burden.









Workshop aims and steps:

Consensus on evidence [potentially pre CWS?]

Problem Prioritization ("which are the biggest problems?")

Root cause analysis ("what causes/ contributes to these problems?")

Intervention optimization ("what are priority solutions to optimize impact?")

- Intervention identification ("what needs to be/can be done?")
- Intervention optimization ("what works best vs what can we afford?") ["best guess", impact modelling, economic evaluation]
- Intervention allocation ("who and where?")

(A) Generate Ideas

Based on existing norms and best practices, and/or innovations

(B) Estimate Feasibility and Impact

Focus the set of possible interventions to those that have a relatively high probability of successful implementation and impact on the root causes

(C) Explore Multi-Sectoral Engagement

Explore who can best implement to expand the feasibility of interventions that will address root causes

(D) Optimize

Establish packages of interventions based on cost and impact evidence

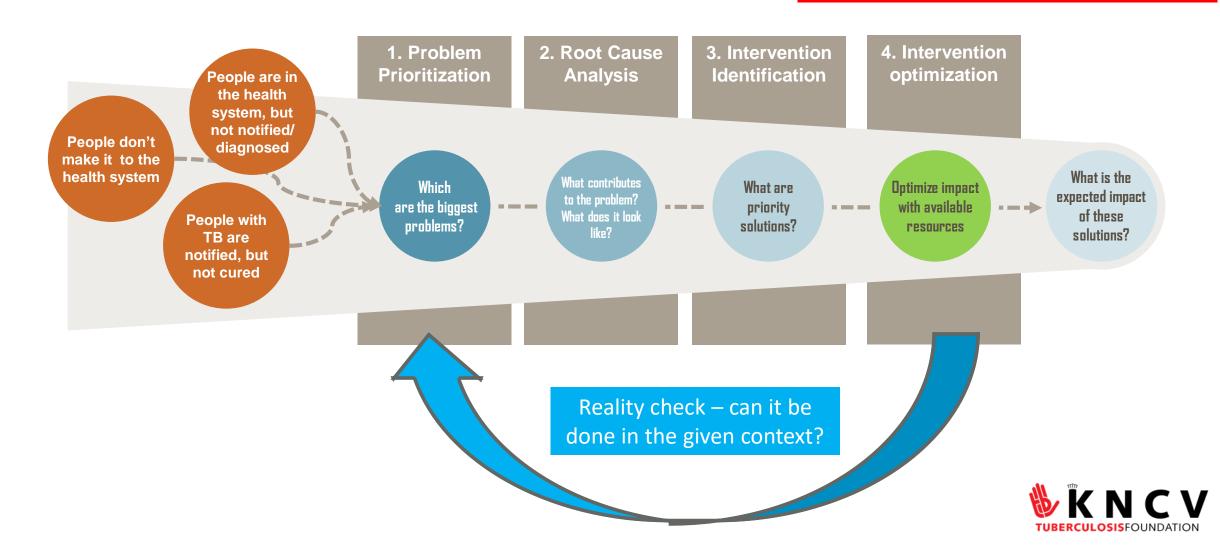
(E) Plan

Create a tiered plan for action that considers various funding scenarios (from existing resource envelope to fully funded), and presents the optimized packages of interventions for each tier



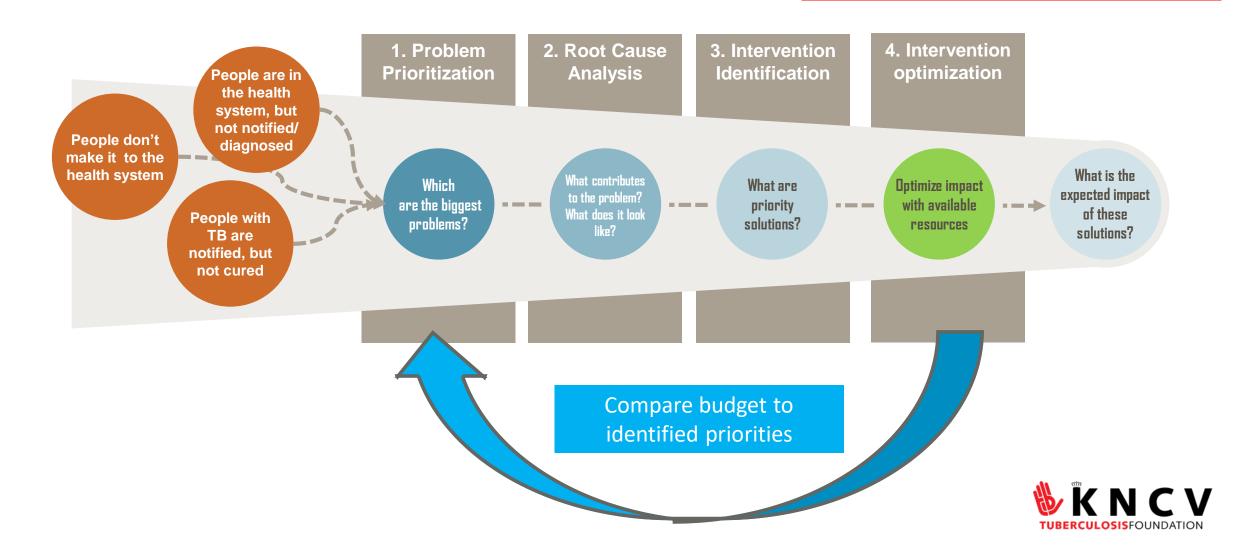
Intervention optimization

"What is feasible?"



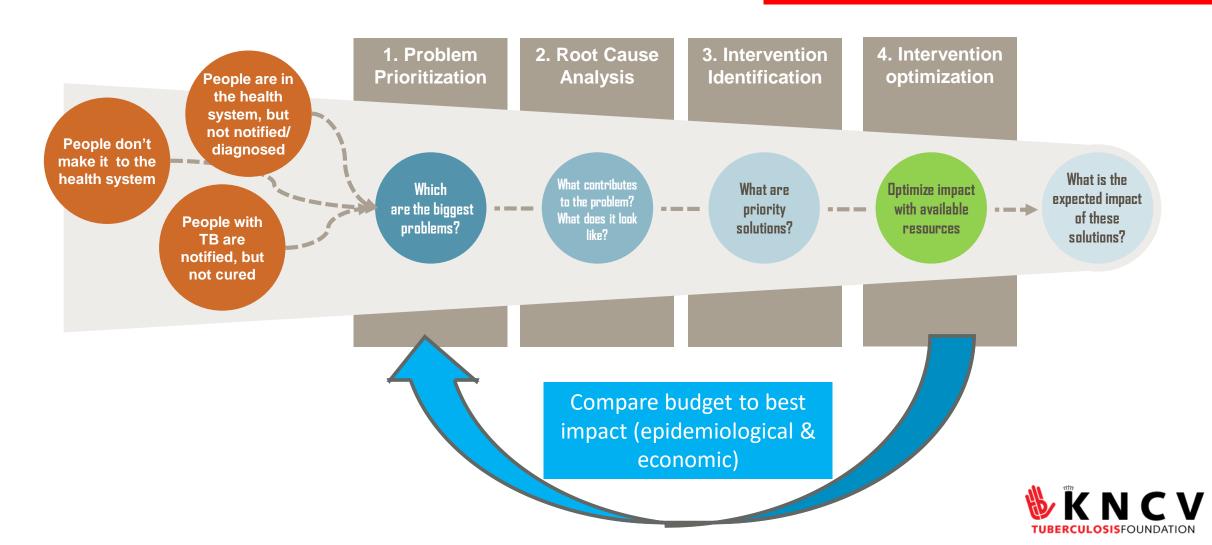
Intervention optimization

"What can we afford?"

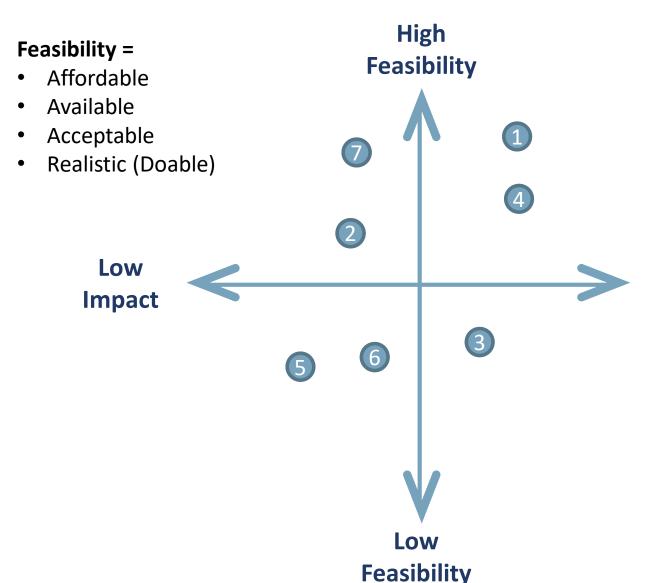


Intervention optimization

"What makes most sense?"



Modelling to support prioritisation/optimisation



Considerations for impact modelling:

- Validation/ robustness/ limitations? (avoid crystal Ball effect)
- How to address complexity?
 - Intervention packages vs interventions
 - Strategies depending on available resources
 - Short-term vs long-term vision
 - Intervention interdependency (A before B)

High Impact

Cost-effectiveness:

- Is it worth the effort?
 - Short-term and long-term gains
 - ICERs
 - "Business case"....
- Costing vs economic evaluation!



To be discussed:

- ➤ Agree on: "Essential" (Core), "Optimal" (Supplementary) and "Additional" (Optional) Data/ Evidence
- > "Automation" is preferable to manual extraction and analysis
 - > PPA wizard and KNCV data consolidation and visualization tool
 - Integration into routine surveillance systems is preferable => will transform a "one-off" into responsive, continuous monitoring system (and make it easier on repeat)

> Create data consolidation logic => if there is no obvious issue, do we need the data (dig deeper)?



Discussion points continued

- ➤ Can we model and compare completely different or multiple strategies? where are the limits?
- > How do we account for environmental changes and subnational differences?
- ➤ How and when to bring the different elements and partners together (analysis, planning, modelling, economic evaluation?
- ➤ When is added value achieved (thresholds) and how do we measure this? (%)
- Expectation management! (NTPs, donors, partners)



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Thank you for your attention!

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