# TB IN SOUTH AFRICA: IMPACT OF HIV INTERVENTIONS & INSIGHTS ON KNOWLEDGE ABOUT TB & STIGMA FROM HIV SURVEYS

Human Sciences Research Council(HSRC)

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### Overview of Presentation

TB and HIV intersection in South Africa

Knowledge about TB transmission and risk

TB Stigma

SBCC

NSP 2023-2028

Concluding Remarks



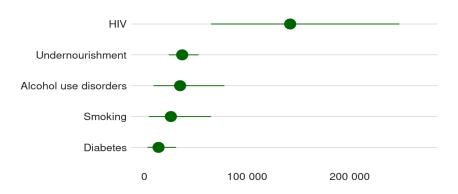


### TB and HIV - Intersecting Epidemics

#### Estimates of TB burden, 2022

	Number	(Rate per 100 000 population)
Total TB incidence	280 000 (182 000-398 000)	468 (304-665)
HIV-positive TB incidence	152 000 (99 000-217 000)	255 (166-362)
MDR/RR-TB incidence**	11 000 (6 700-16 000)	19 (11-26)
HIV-negative TB mortality	23 000 (22 000-24 000)	39 (37-41)
HIV-positive TB mortality	31 000 (9 900-64 000)	52 (17-107)

#### Cases attributable to five risk factors, 2022



Patients with known HIV status who are HIV-positive **54**% - on antiretroviral therapy **88**%





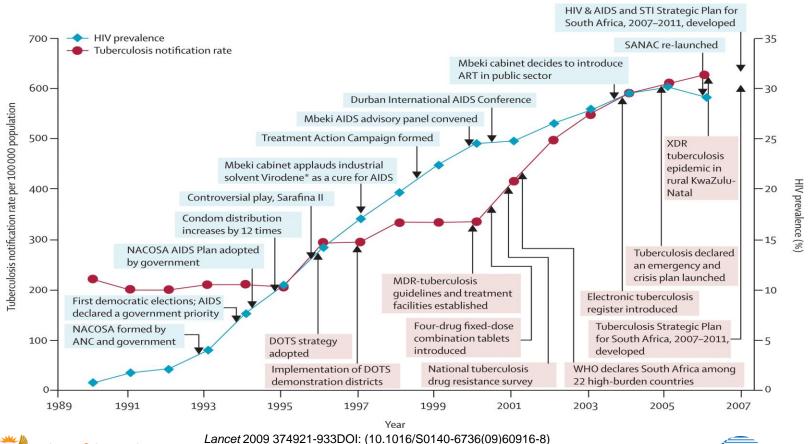
### TB and HIV - Intersecting Epidemics

Social and structural drivers of TB and HIV intersect and overlap

	KEY POPULATIONS	OTHER PRIORITY POPULATIONS	
HIV	Increased risk of acquiring HIV, TB and STIs and suffering from punitive laws, stigma and discrimination.	Increased risk of acquiring HIV, TB and STIs because of biological, behavioural or structural factors.	
	<ul> <li>Sex workers and their clients</li> </ul>	<ul> <li>Adolescents and young people, especially AGYW</li> </ul>	
	<ul> <li>Trans and gender-diverse people</li> </ul>	Survivors of SGBV	
	<ul><li>Men who have sex with men (MSM)</li><li>People who use drugs (PWUD)</li></ul>	Face distinct barriers to accessing healthcare services	
	People in prisons and other closed settings	<ul> <li>Children, including orphans and vulnerable children</li> </ul>	
	People living with HIV (PLHIV)	<ul> <li>Migrants, mobile populations, and undocumented individuals</li> </ul>	
		<ul> <li>People with disabilities</li> </ul>	
		<ul> <li>People with mental health conditions</li> </ul>	
		• LGBTIQ+ persons	
		<ul> <li>People living in rural areas, informal settlements, and inner cities</li> </ul>	
	• PLHIV	Contacts of PWTB	
ТВ	<ul> <li>Children &lt; 5-years old</li> </ul>	People with prior TB	
	Health workers	• Smokers	
	People in prisons and other closed	<ul> <li>People with harmful alcohol- use</li> </ul>	
	settings	The elderly	
	People living in informal settlements	<ul> <li>Adolescents and young people</li> </ul>	
	<ul> <li>Mineworkers and peri-mining communities</li> </ul>	<ul> <li>People with diabetes</li> </ul>	
	<ul><li>Sex workers</li><li>Migrants, mobile populations, and</li></ul>	Pregnant women	
		• Men	
	undocumented individuals	<ul> <li>People with disabilities</li> </ul>	
		People with mental health conditions	



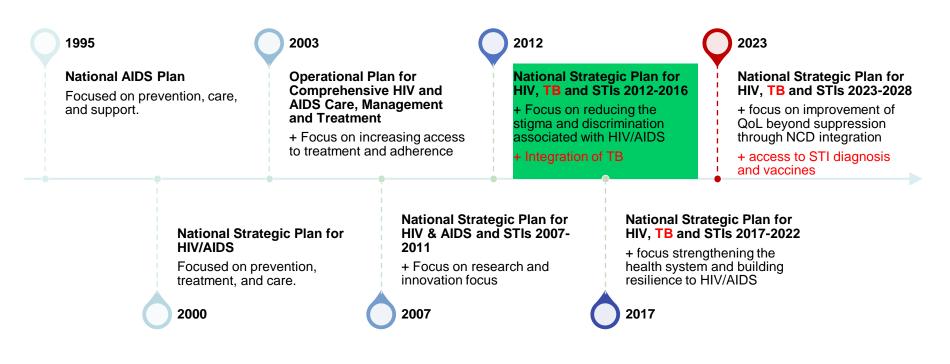
# Historical overview of major events in HIV and TB Epidemics in South Africa, 1989–2007







### TB and HIV - Intersecting Epidemics



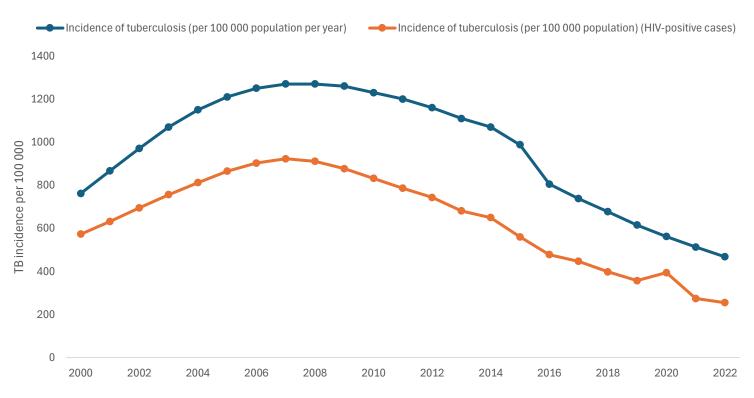
Slide : Prof Mlisana SAAIDS 2023

With increasing recognition of the TB / HIV syndemicity TB was included in the NSP from 2012

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### TB Incidence over time



Sources: TB incidence: WHO Global Health Observatory.: <a href="https://www.who.int/data/gho/data/indicators/indicator-details/GHO/incidence-of-tuberculosis-(per-100-000-population-per-vear)">https://www.who.int/data/gho/data/indicators/indicator-details/GHO/incidence-of-tuberculosis-(per-100-000-population-per-vear)</a>.

Aggressive scale up of antiretroviral treatment (ART) has curbed and reversed the rapid increase of TB





Kubanje et al,2022

M. Kubjane, M. Osman, A. Boulle et al.

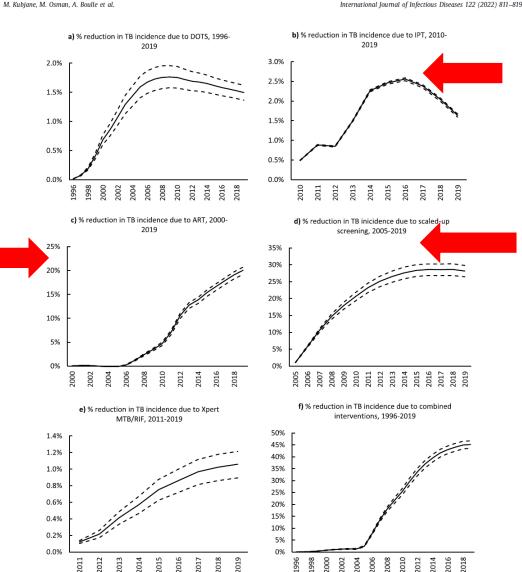


Figure 4. The impact of programmatic interventions on TB incidence: a) DOTS, b) IPT, c) ART, d) scaled-up TB screening, e) Xpert MTB/RIF, and f) all interventions combined. Solid lines represent the estimated mean reductions in TB incidence. All dashed lines represent the 95% confidence intervals. ART=antiretroviral therapy. DOTS=Directly Observed Therapy; IPT=isoniazid preventive therapy.



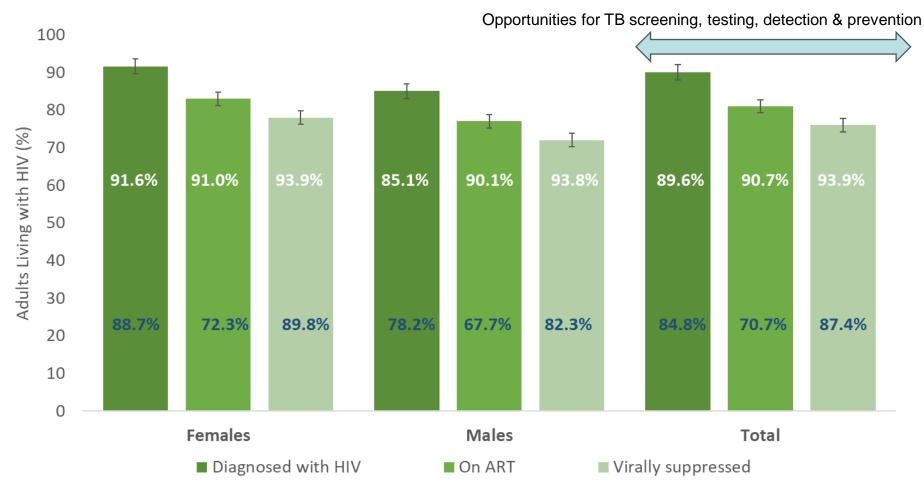
### HSRC HIV Surveillance

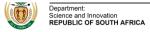
- The South Africa National HIV Prevalence, Incidence, Behavior, and Communication Survey (SABSSM) series has been tracking the HIV epidemic and impact of different interventions since 2002
- PLHIV Stigma index 2014 and 2021
- Biomarkers
  - Testing, infections, treatment coverage, and gaps, UNAIDS targets
- Knowledge, perceptions and attitudes about HIV and TB
  - Risk, behaviours, and stigma





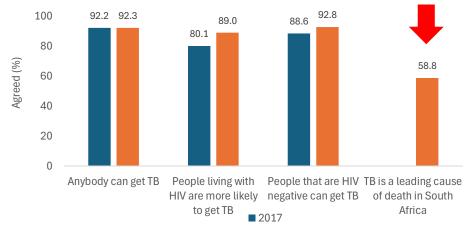
# 95-95-95 Indicators for people 15years and older living with HIV, SABSSMVI, 2022

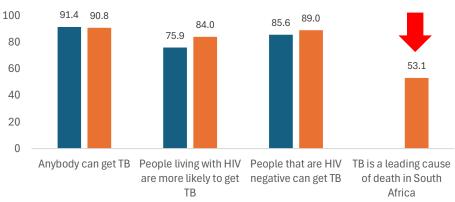






# Knowledge about TB Risk in people 15 years & older, SABSSM 2017 & 2022





**■** 2017 **■** 2022

High levels of knowledge about TB transmission >90%

No variation by sex, age, locality type





### TB Mortality

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NUMBER OF TB DEATHS 2022

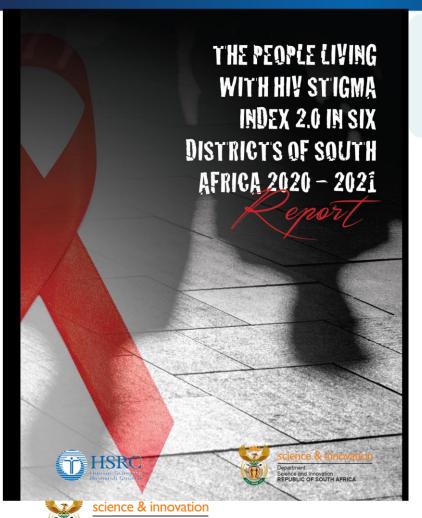
54 200 (one person every 10 minutes)

Range 30 300-84 900. (55 400 in 2021 ↓ -2.1%)





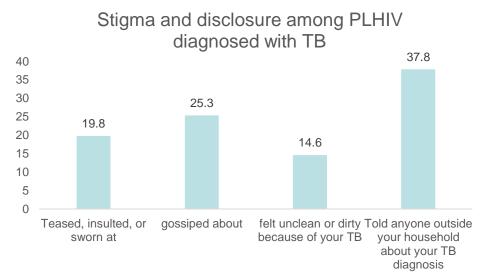
### TB Stigma



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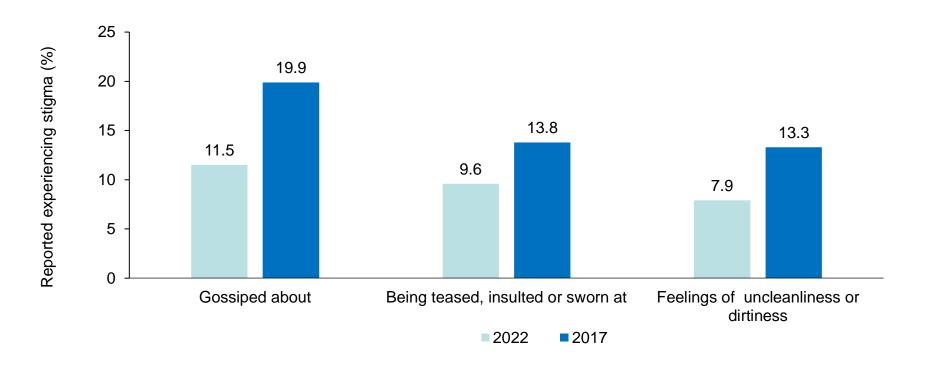


Stigma associated with TB among PLHIV remains a challenge





# Stigma in PLHIV 15 years & older who reported having TB, SABSSM, 2017 & 2022



Reported stigma in PLHIV who reported having TB





## Social and Behaviour Change Communication Initiatives

- One of the responses to HIV has been Social and Behaviour Change Communication initiatives
- We found correlation between exposure to SBCC and HIV testing, rejection of myths
- Utilizing various media platforms such as radio, television, newspapers, and social media to drive action





### NSP 2023-2028

#### The four strategic goals are:

### **GOAL 1:**

Break down barriers to achieving outcomes for HIV, TB and STIs

### GOAL 2:

Maximise equitable and equal access to services and solutions for HIV, TB and STIs



#### CATASTROPHIC COSTS

56%

(Target is 0% of people with TB facing catastrophic costs by 2020)

### GOAL 4:

Fully resource and sustain an efficient NSP led by revitalised, inclusive and accountable institutions

### GOAL 3:

Build resilient systems for HIV, TB and STIs that are integrated into systems for health, social protection, and pandemic response





### **Concluding Remarks**

- TB in SA remains intertwined with HIV
- HIV interventions have benefited TB
- Strengthening HIV interventions will continue to benefit TB
- Awareness of TB mortality is low
- People with TB face stigma
- Focus on TB in NSP still required



#### TB/HIV

Strengthen coordination and collaboration between tuberculosis and HIV programmes, with the support of relevant United Nations entities and other stakeholders to ensure universal access to integrated prevention, diagnosis, treatment and care services, by promoting testing for HIV among people with tuberculosis and screening all people living with HIV regularly for tuberculosis, providing tuberculosis preventive treatment, and addressing structural barriers to health services, such as stigma, discrimination and gender inequality.

Source: The Political Declaration of the UN High-Level Meeting on the fight against tuber<u>culos</u>is



### Acknowledgements

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### THANK YOU



