

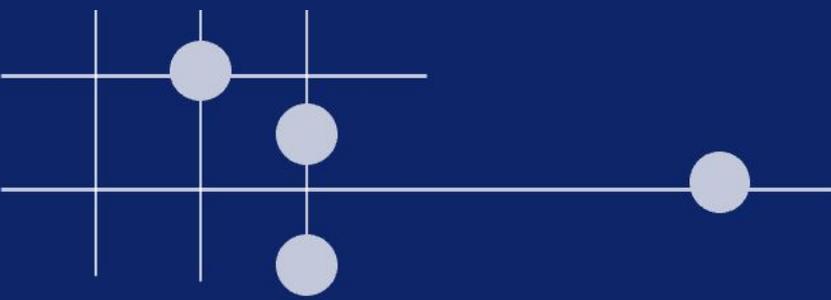
TB DIAH

TUBERCULOSIS DATA, IMPACT ASSESSMENT
AND COMMUNICATIONS HUB

New Tools, Platforms and Resources for TB Data Capture, Visualization and Use

August 1, 2024





Introductions and Housekeeping

TB DIAH

TUBERCULOSIS DATA, IMPACT ASSESSMENT
AND COMMUNICATIONS HUB

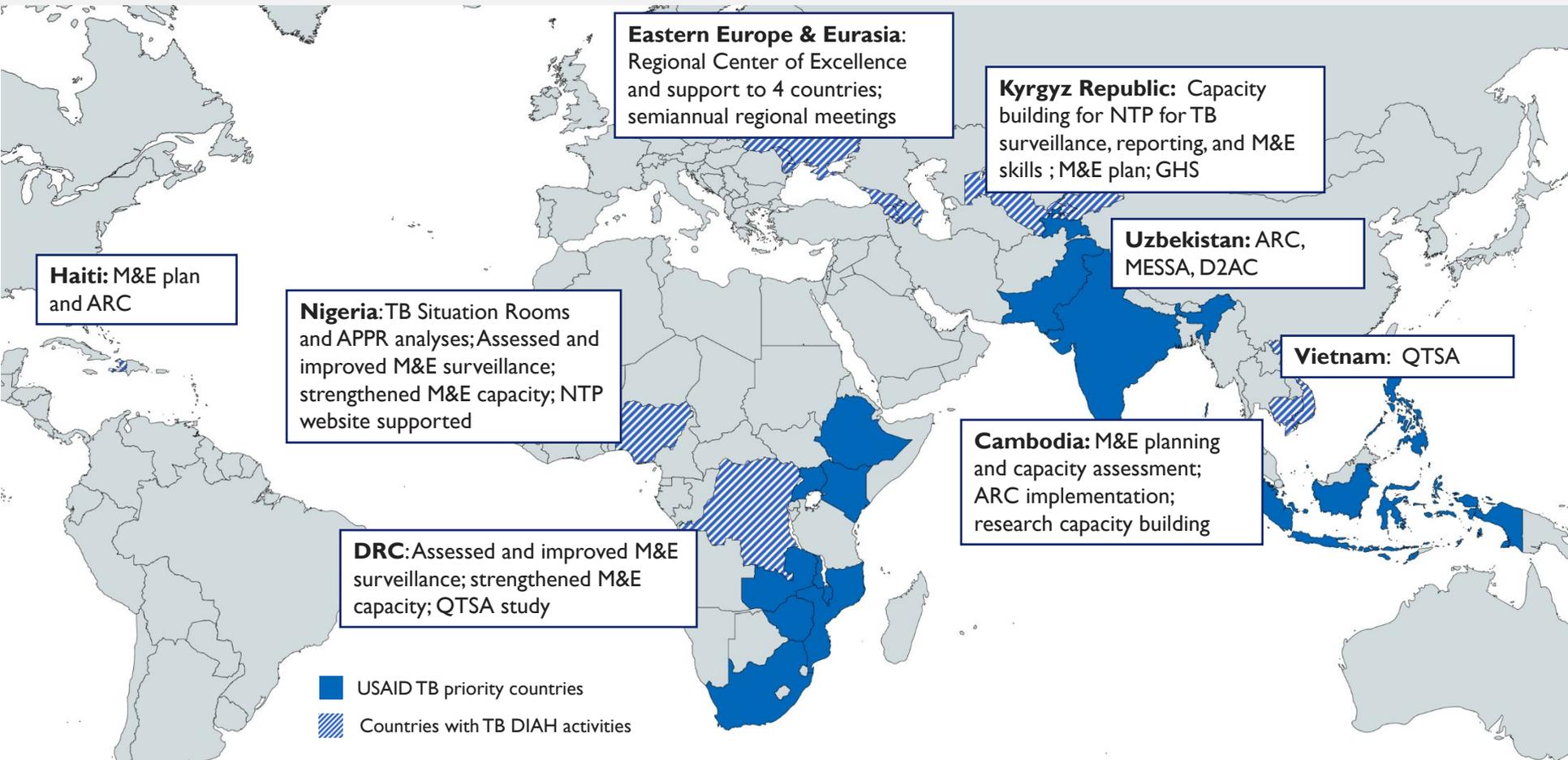
- Part of the USAID Global Accelerator to End TB
- Global, five-year (2018-2024) associate award, \$36M cooperative agreement
- Small team of M&E and TB experts working to clarify TB data in way that helps USAID monitor its TB investments in its TB priority countries
- Helps countries use data to share their story

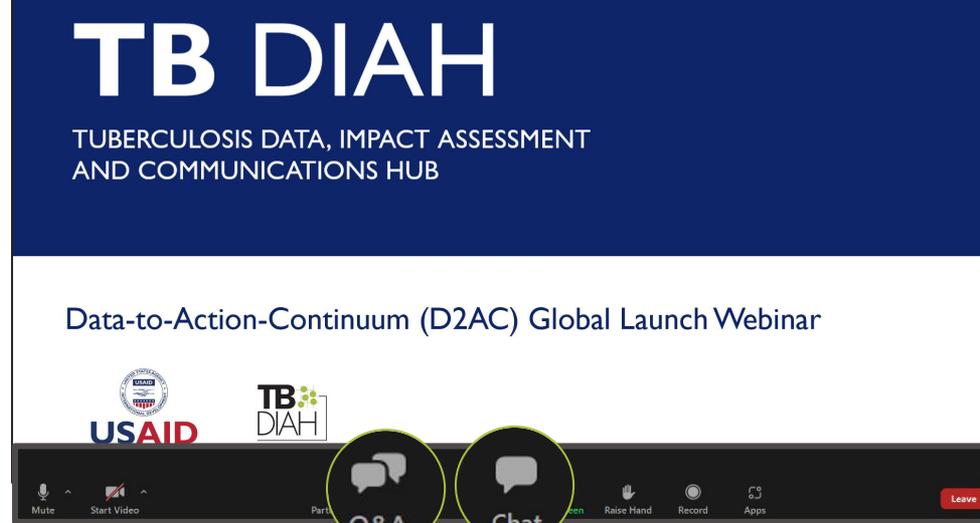


What does TB DIAH do?



Where does TB DIAH work?





Please use the **Q&A** for all questions.

Please **tell us who you are and where you're from** in the chat.



Questions will be addressed during and at the end of the webinar.



The webinar is being recorded and a link to the recording and presentation will be shared with all attendees and registrants tomorrow by a Zoom link and email.

Speakers and agenda

 **1.5 hour**

Stephanie Mullen

Project Director, TB DIAH Project

- Introductions and Housekeeping

Dr. E. Mushota Kabaso, PhD

National M&E Advisor for the National TB and Leprosy Programme with the Zambia Ministry of Health

- Zambia's TB Situation Room

Dr. Obioma Chijioke-Akaniro

Senior Monitoring and Evaluation Manager for Nigeria's National Tuberculosis, Leprosy, and Buruli Ulcer Control Programme

- Nigeria's TB Situation Room

Dr. Abiodun O. Hassan MD, MPH, ABD

Nigeria Project Director/Team Lead and Mission Point of Contact, TB DIAH Nigeria

- Nigeria's Automatic Partners Progress Report

Kola Oyediran

Senior M&E Advisor, TB DIAH Project

- Introducing the TBSR Management and Implementation Guidance

Ann Fitzgerald

Field Services Manager and Deputy Director, TB DIAH Project

- Q&A

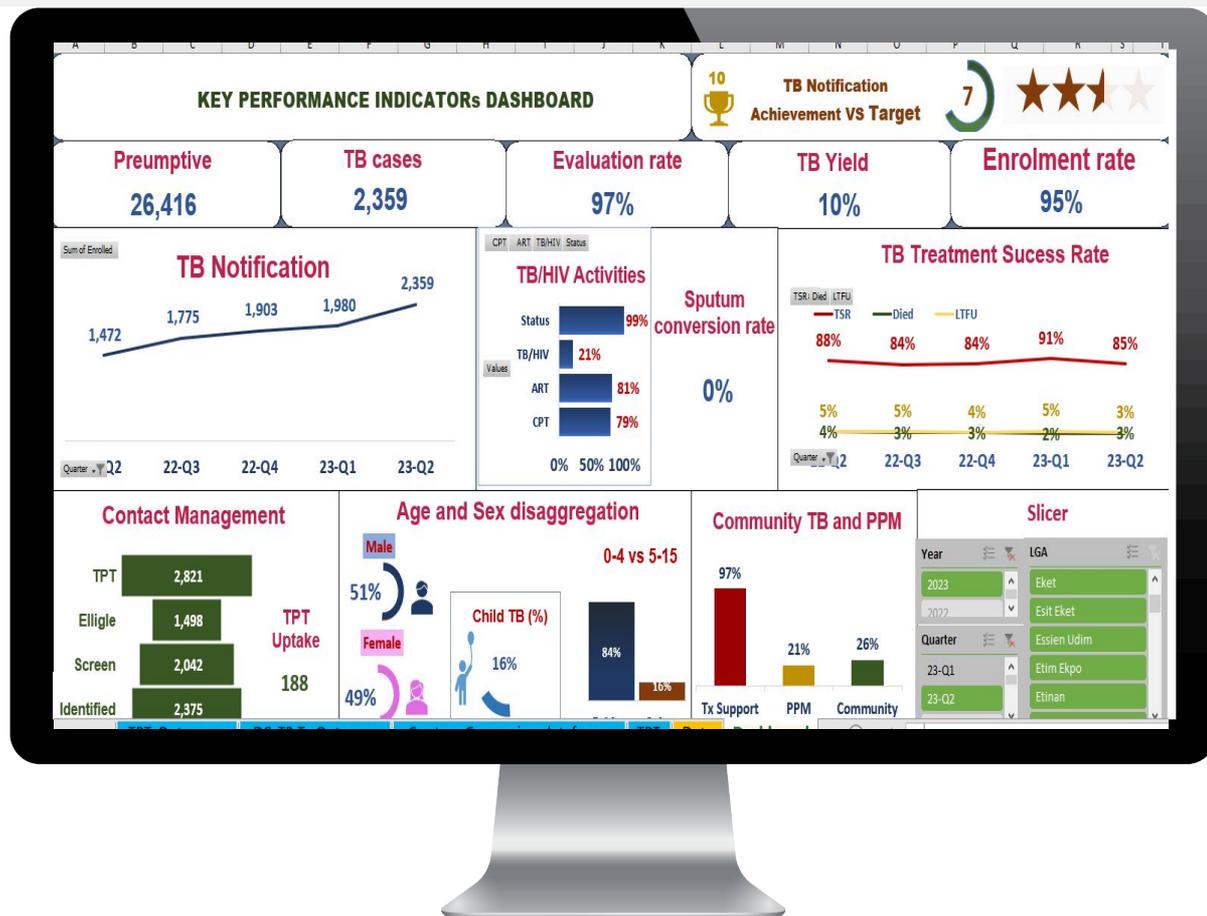
What is a TBSR? And why is it important?

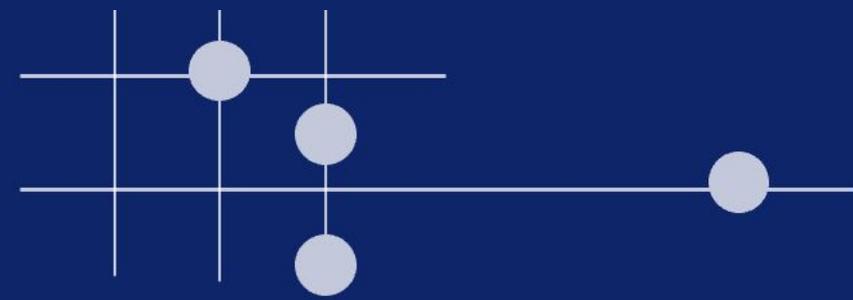
A TBSR:

- Collates and generates visuals of multi-sourced TB data (EMR, program data, diagnostics and laboratory, drugs and supplies etc.)

TBSRs are important because they can:

- Provide decision makers and implementers with easy-to-understand access to TB data from different sources in one place
- Allow for the review, analysis, and interpretation of data in as near to real time as possible





Zambia's TB Situation Room

THE WEEKLY TB SITUATION ROOM: **EXPERIENCE FROM ZAMBIA**

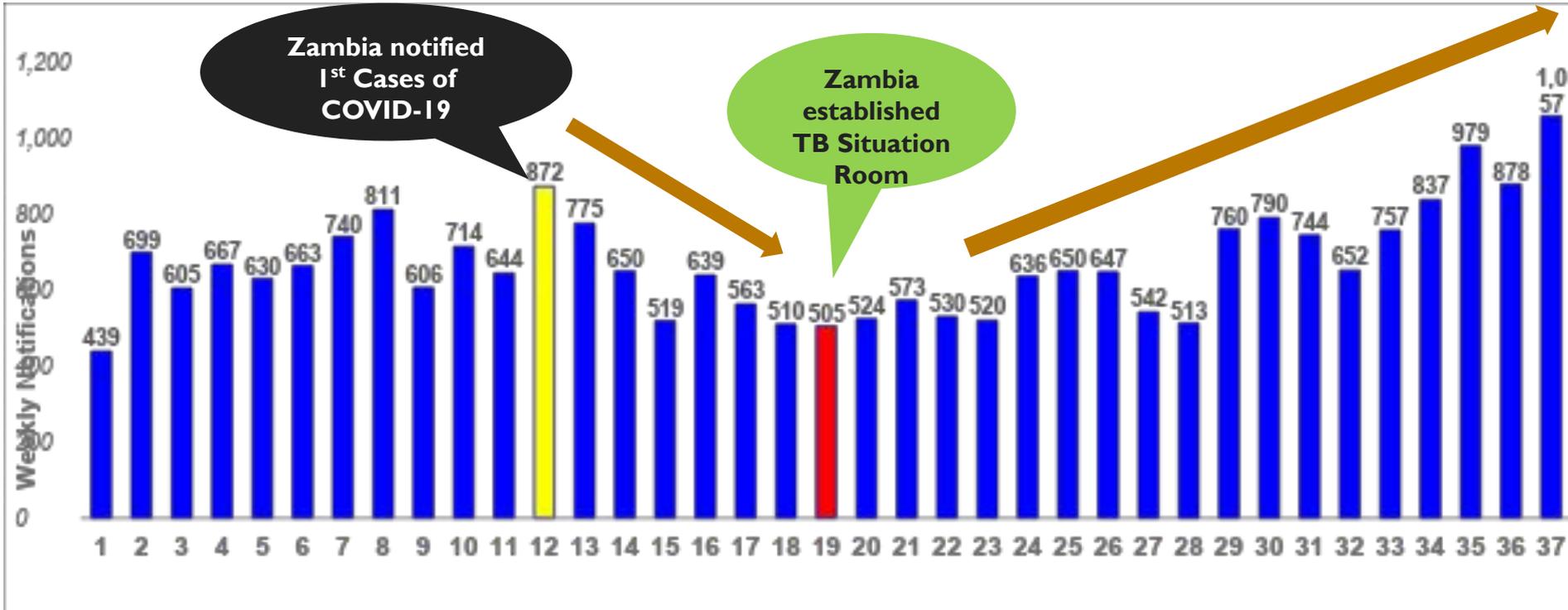
E Mushota Kabaso, PhD
USAID National TB M&E Advisor
Ministry of Health
Zambia

WHAT IS TBSR

The TB Situation Room (**TBSR**) is

- An initiative of the NTLP in Zambia's Ministry of Health
- Designed to track the weekly performance of the TB program across the country
- Key performance indicators in the TB program (examples)
 - Drug Susceptible TB Notifications
 - DR TB Notifications
 - # of presumptive cases screened in the lab
 - # with bacteriologically confirmed TB
 - # of clinically diagnosed TB; etc.

ORIGINS OF THE ZAMBIA TBSR



HOW IT IS DONE : TBSR FORMAT AND AUDIENCE

Format

- Zambia TBSR is a virtual meeting via Zoom

Attendees

- Health Care Workers
 - Provincial
 - District
 - Facility
- NTLP staff
- TB cooperating and implementing partners (USAID, CDC, WHO, etc.)
- Civil society

HOW IT IS DONE : DATA MANAGEMENT

- Data collected on a simple **weekly** template
- TB treatment and diagnostic facilities in all districts
- HFs submit to District TB coordinators
- Districts submit to Provincial TB coordinators
- Ten provincial reports received at National HQ for processing and updates
- Data quality is assured in the back and forth between health facility/district/National levels

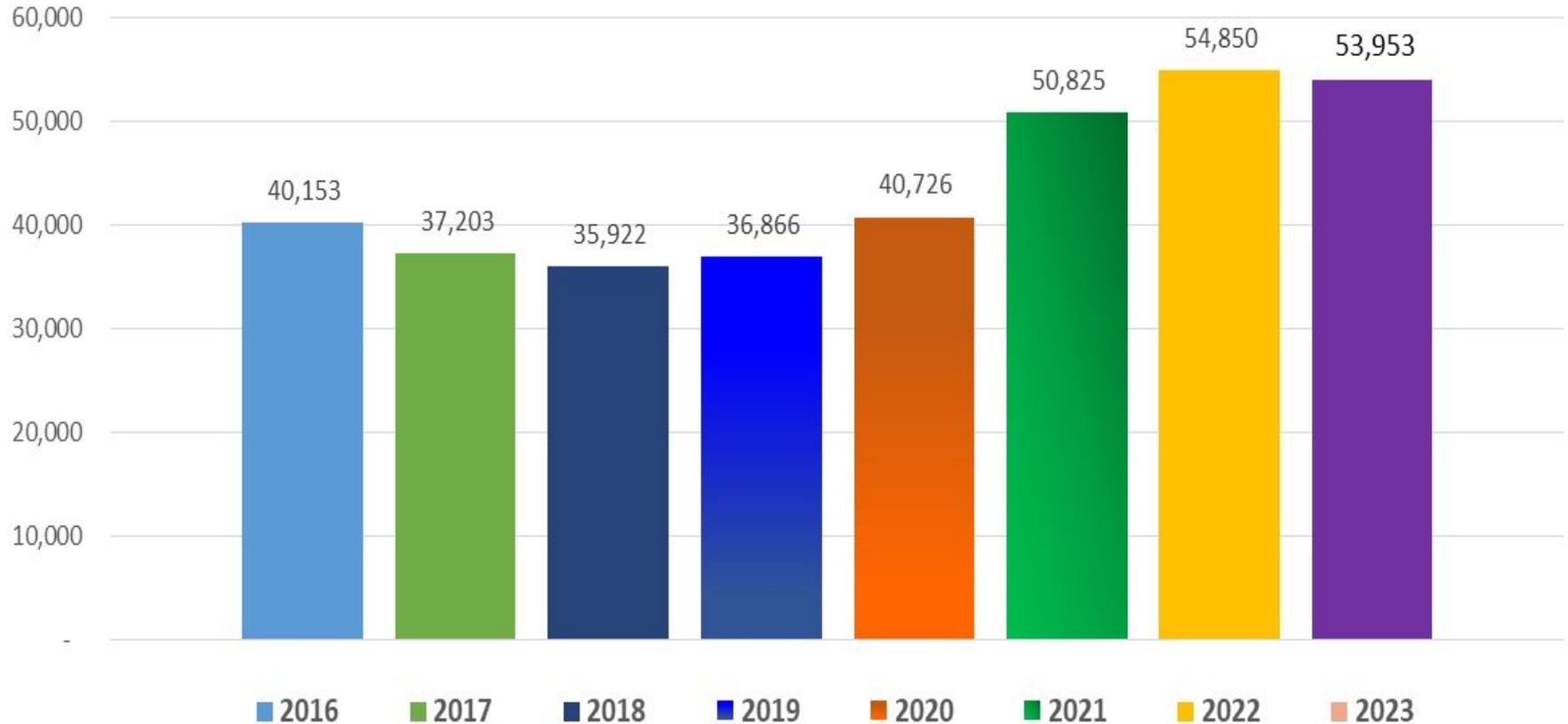
HOW IT IS DONE : DATA ANALYSIS & VISUALIZATIONS

- Analysis of specific metrics of importance
- Pivot tables developed for the meeting on pre-determined template/dashboards
 - Proportion of pediatric notifications
 - Proportion of DR TB
 - Proportion of bacteriologically confirmed TB
 - Tracking of the weekly performance against established **targets per week**
 - Tracking Cumulative performance from beginning of the year **up to the week in review**
 - This summary is then shared with all districts before the SR meeting for validation and analysis for inclusive participation.

HOW IT IS DONE : BEYOND THE DATA

- The forum is used as a platform to
 - Showcase high performing facilities/districts/provinces
 - Share initiatives/activities yielding positive results
 - Share activities they did differently in the week before
 - Replicate positive initiatives/activities elsewhere
 - Low-performing facilities/districts/provinces encouraged to catch up and contribute to national targets in the process
 - Lively debate usually ensues with more than 80 participants logging into the Zoom call on a weekly basis at 2:00 pm every Thursday.
 - **[Link to TBSR Report Week 38 2023](#)**

THE RESULT: TOTAL NOTIFICATIONS IN ZAMBIA, 2016 - 2023



CHALLENGES AND VISIONS FOR THE FUTURE

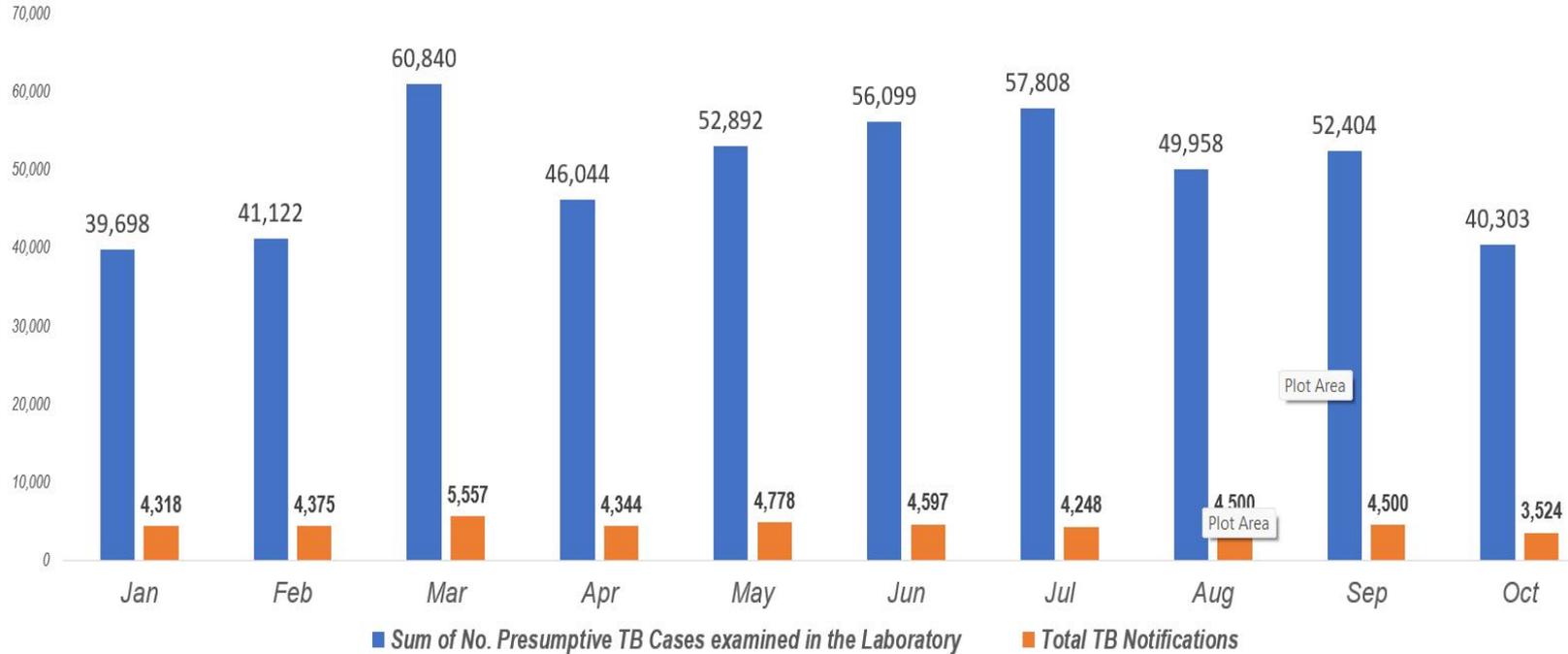
The TB Situation Room is conducted 11 times each week in the country

- Provincial teams conduct their versions **before** the national meeting
- Technological considerations critical
 - 26,600 records in excel is not very efficient
 - Web-based applications recommended option
 - DHIS2
 - Power BI
 - Other API capable solutions
- If possible, align TBSR KPI data with routine notification formats
- An important tool for case finding in TB programming (program and project level)

Optional Slides

TB Weekly Surveillance Dashboard_1

1. Monthly trends - Presumptive TB & notificatio (Up to 22 October, 2023)



- Province**
- Central
 - Copperbelt
 - Eastern
 - Luapula
 - Lusaka
 - Muchinga
 - Northern
 - North-Western
 - Southern
 - Western

- District**
- Chama
 - Chasefu
 - Chavuma
 - Chembe
 - Chibombo
 - Chiengi
 - Chifunabuli
 - Chikankata
 - Chilanga

2. Trends - Presumptive TB cases identified vs examined in the lab

Year

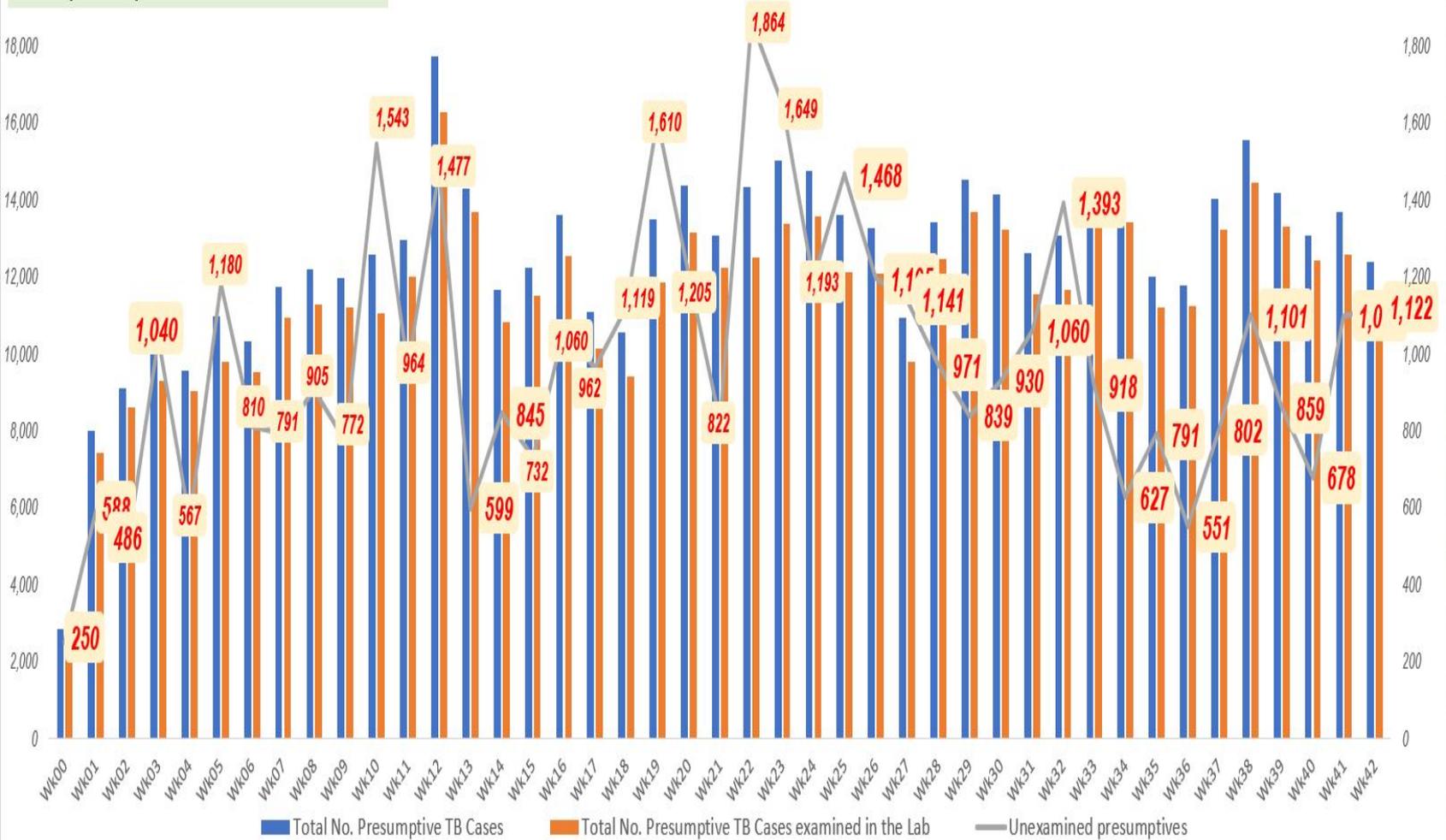
2021

2022

2023



3. No. presumptives unexamined in the lab



Province

Central Copper...
Muchinga Northern

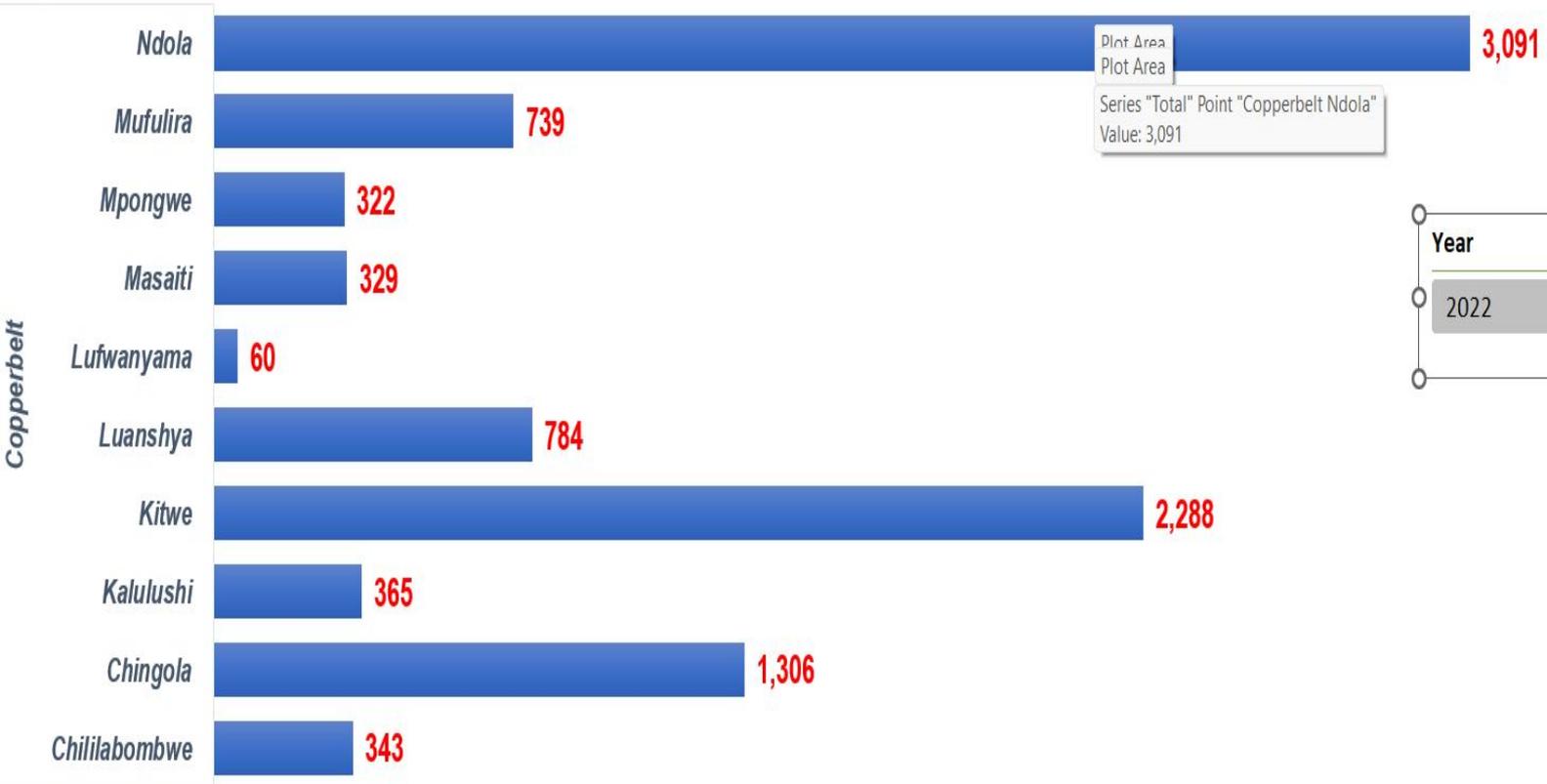
District

Chadiza Chama
Chiromo Chiengi

Year

2021
2022
2023

11. Total TB notifications (Province & District)



Province

Central Copper...

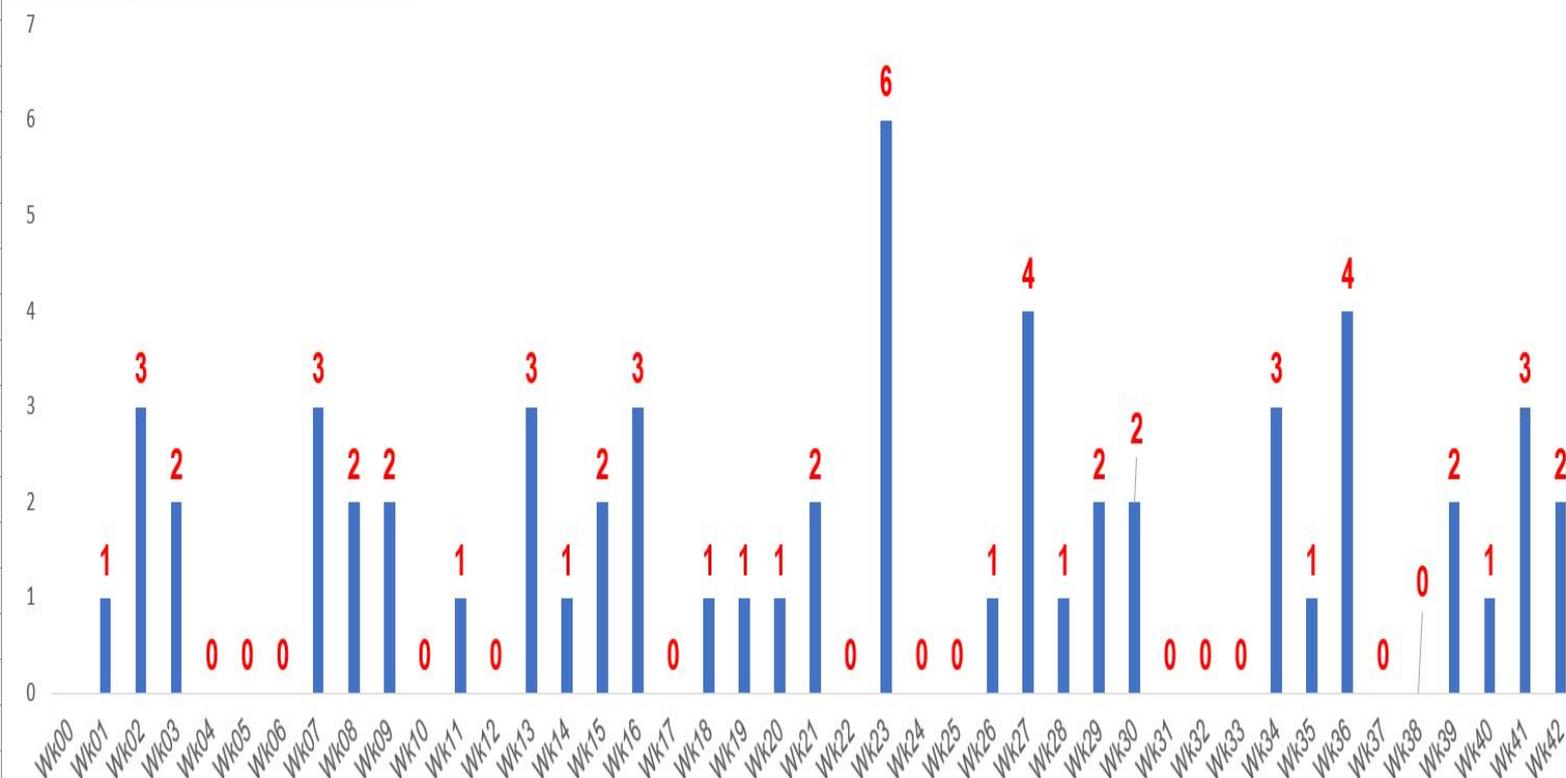
Muchi... Northern

Year

2022 2023

Province

12. Weekly Trends - TB notifications



Province

- Coppe...
- Central
- Eastern
- Muchi...
- North...
- North...

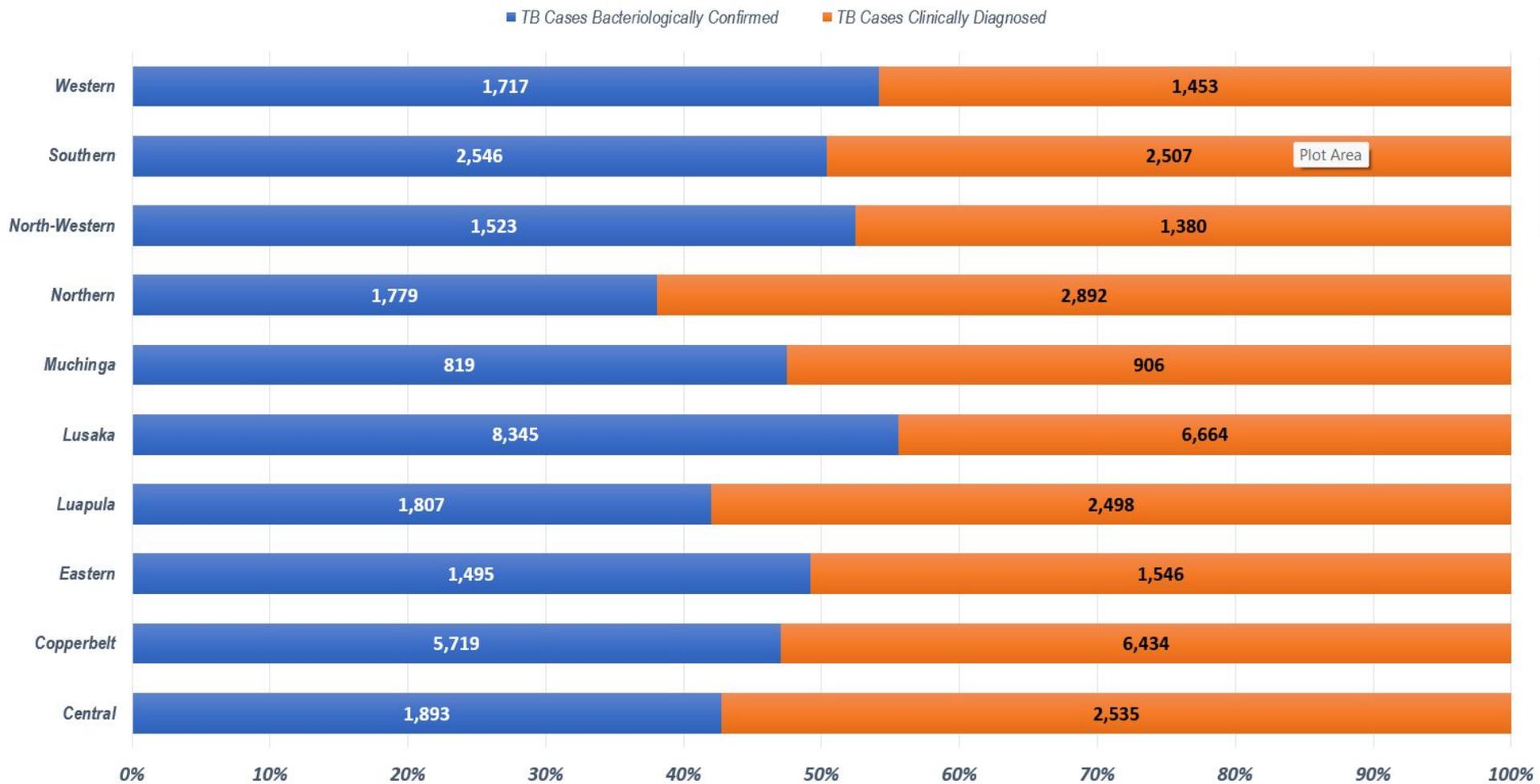
District

- Chililabo...
- Chingola
- Kalulu
- Luanshya
- Lufwanyama
- Masai
- Mufulira
- North...
- Chadi...
- Chasefu
- Chavuma
- Chem...
- Chiengi
- Chifunab...
- Chikar...

Year

- 2022
- 2023

14. - Bacteriologically confirmed Vs Clinically Diagnosed

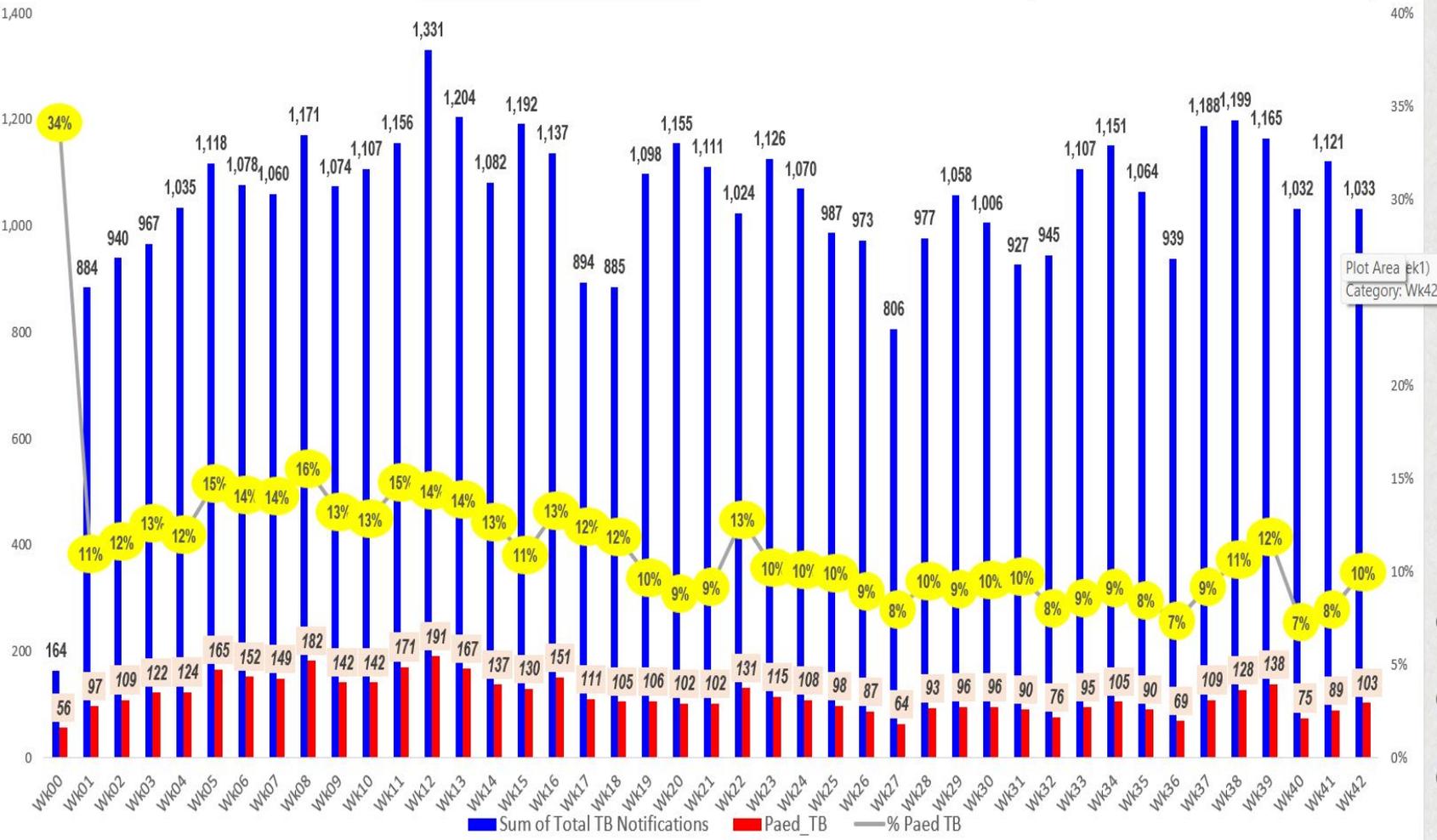


15. Trends - Proportion of Paed TB

Total Notifications: 44,741

Paediatric Notifications: 4,968

Percent Paed Notifications: 11%



Province

Central Copper...
Muchinga Norther...

District

Chadiza Chama
Chibo... Chiengi
Chililab... Chilubi
Chipata Chipili
Choma Chongwe
Itezhi... Kabompo
Kalomo Kalulushi
Kapiri ... Kaputa

Year

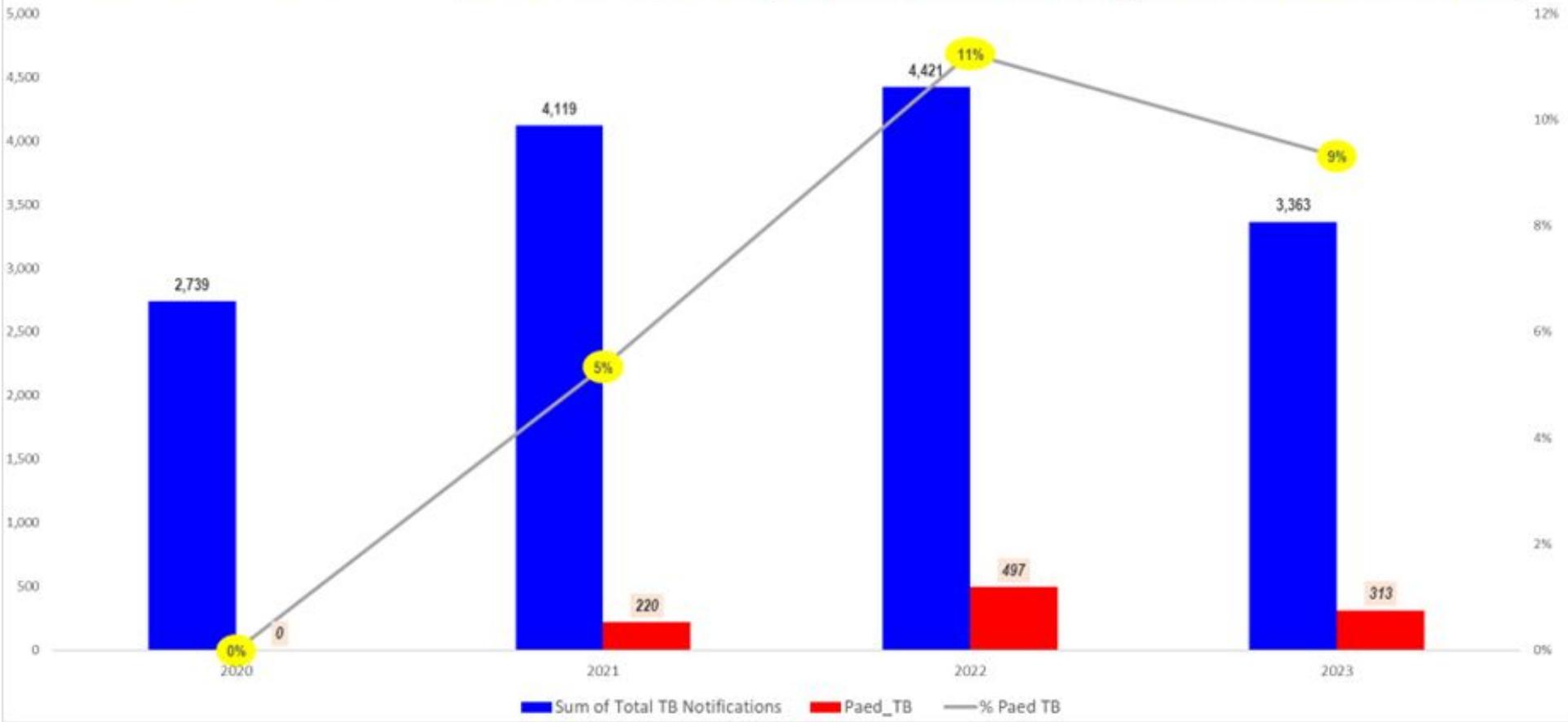
2022
2023

15. Trends - Proportion of Paed TB

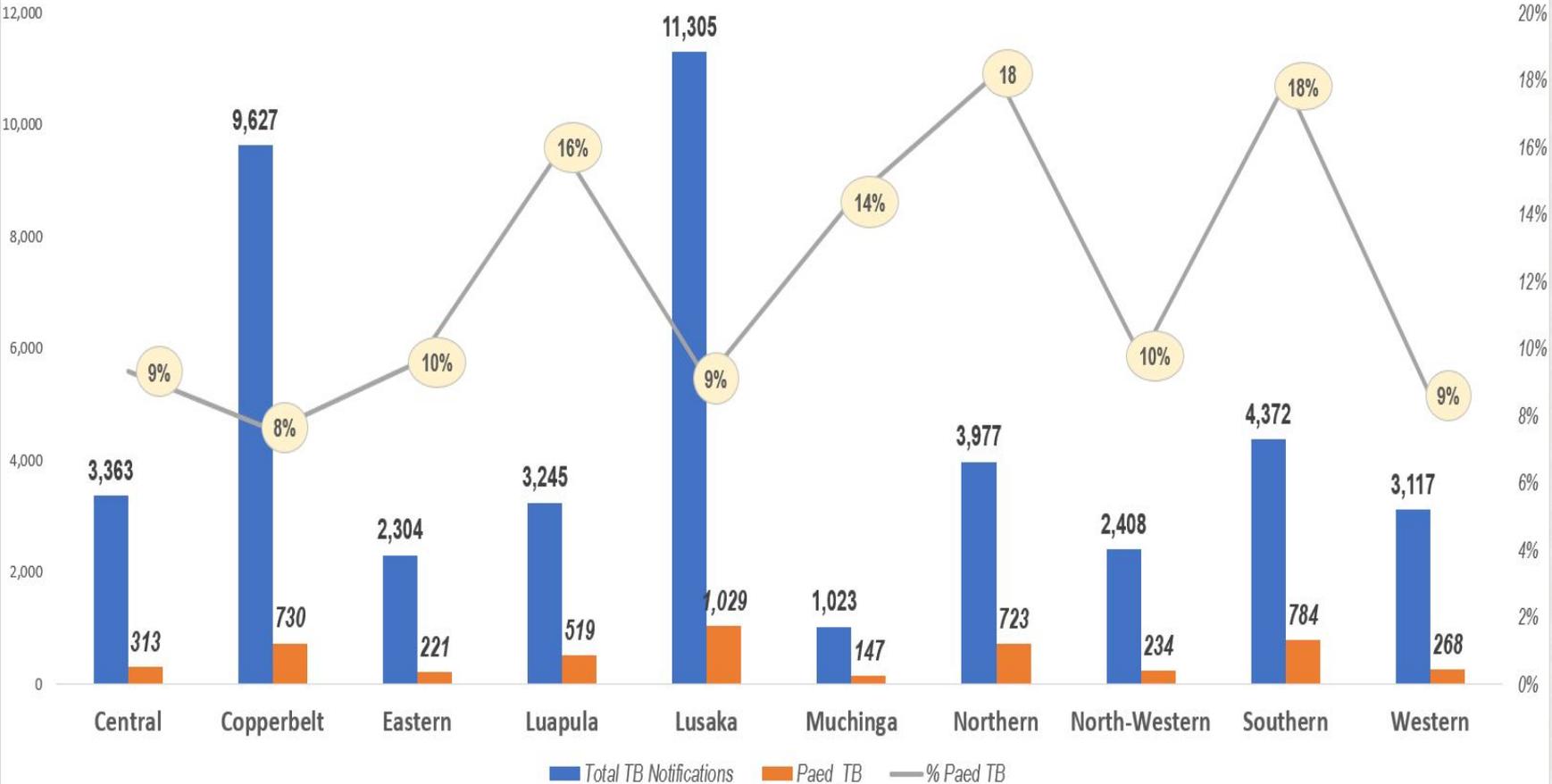
Total Notifications: 14,642

Paediatric Notifications: 1,030

Percent Paed Notifications: 7%



16. Proportion of Paed TB by province



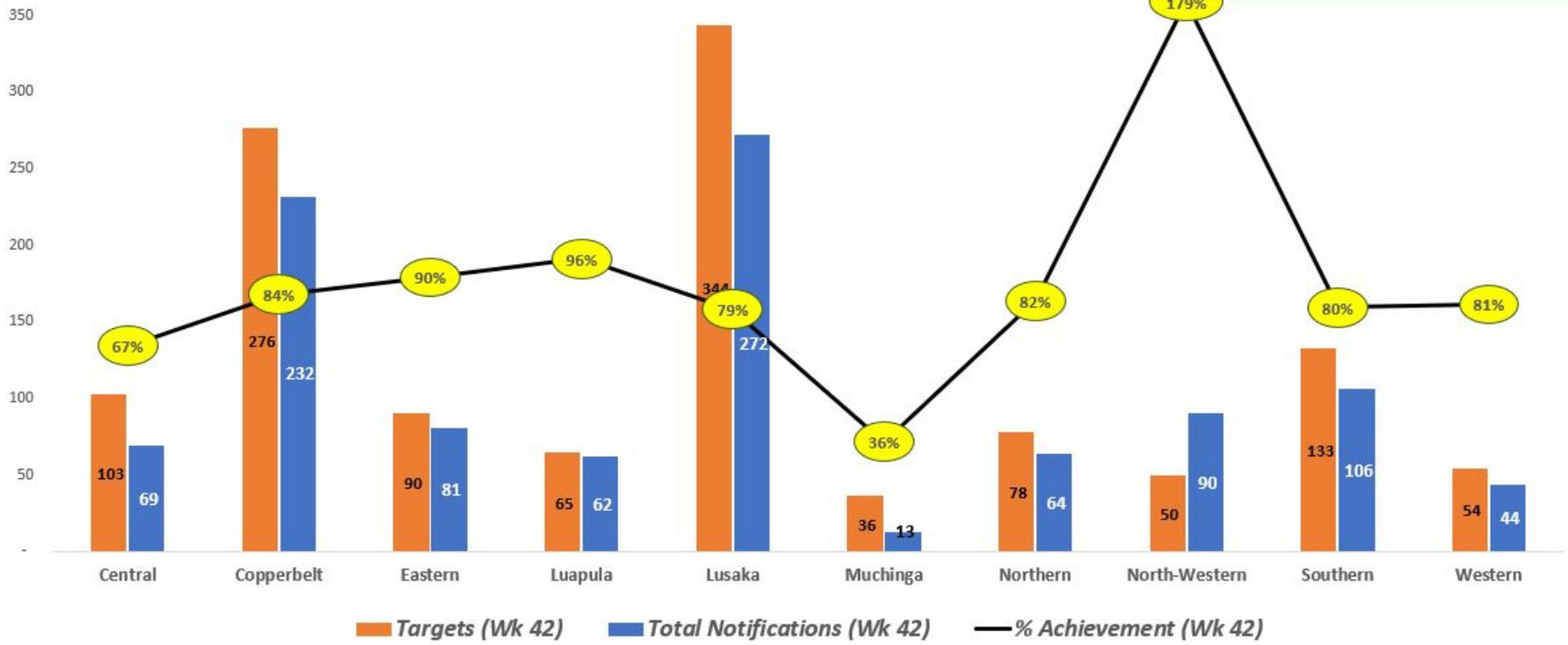
Year

- 2021
- 2022
- 2023

Plot Area (week1)
40 Category: Wk42

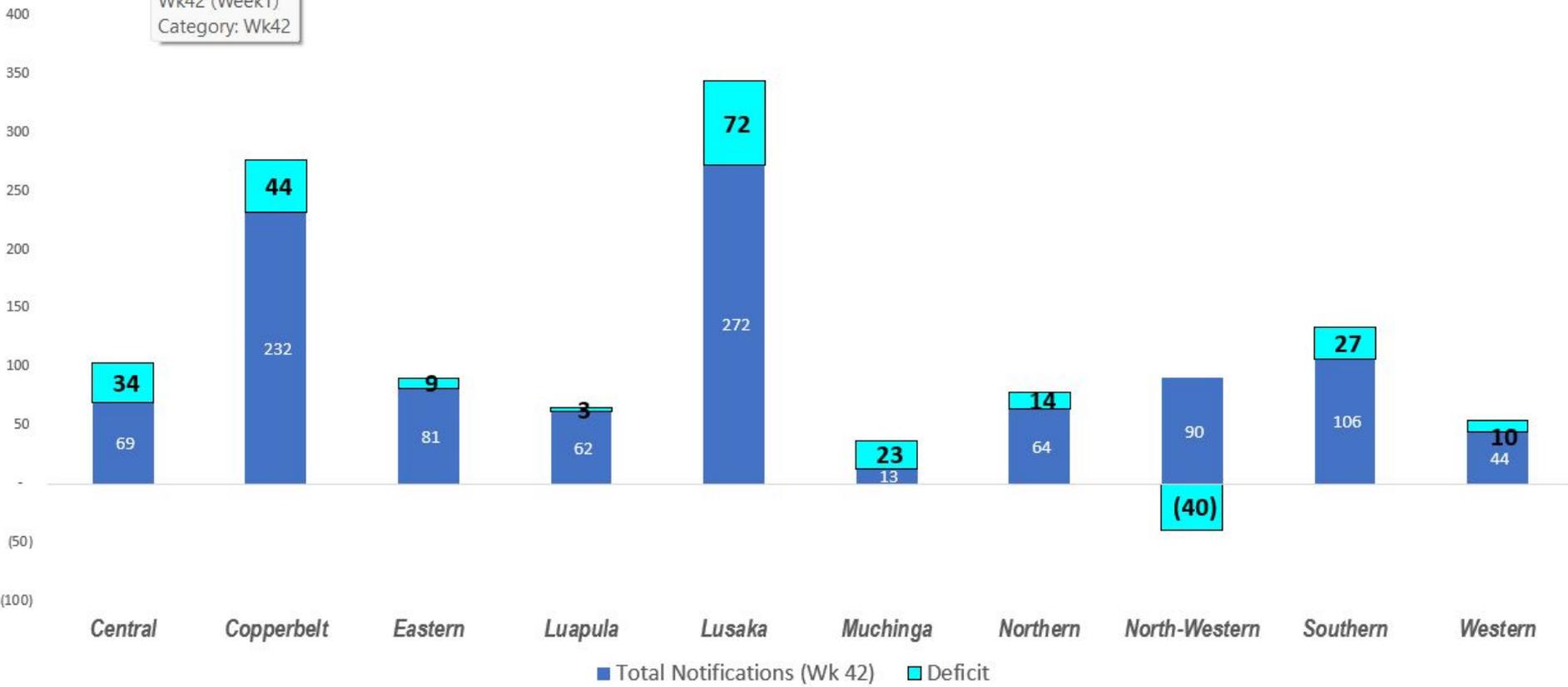
Weekly achievement against Notification Target (Week 42)

Weekly Target : 1,231
Weekly Notifications : 1,033
Percent Achievement : 84%



Weekly achievement against deficit for the weeklytarget (Week 42)

Wk42 (Week1)
Category: Wk42



■ Total Notifications (Wk 42) ■ Deficit

Category: Wk42

Chart Area

Achievement against Notification Target (up to Week 42)

Cumulative Target : 51,692
Cumulative Notifications : 44,741
Cumulative Percent Achievement : 87%

16,000

14,000

12,000

10,000

8,000

6,000

4,000

2,000

0

Central

Copperbelt

Eastern

Luapula

Lusaka

Muchinga

Northern

North-Western

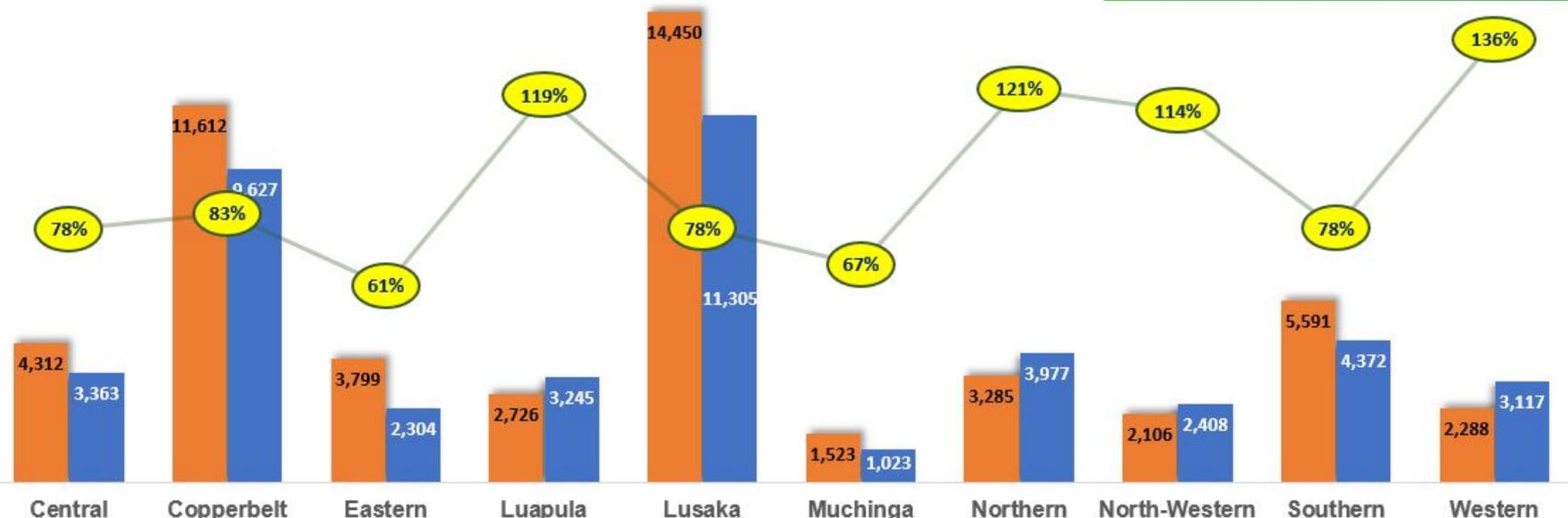
Southern

Western

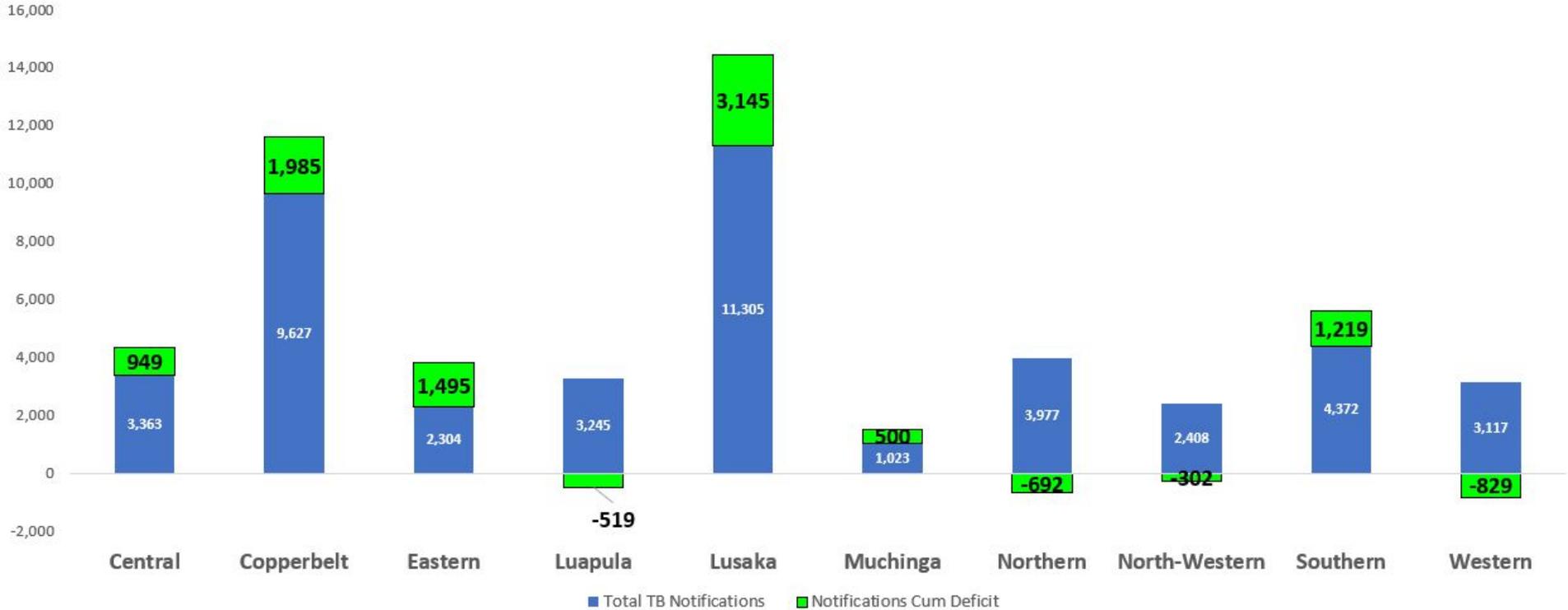
Target (up to Wk42)

Total TB Notifications

Achieved (%) (up to Wk42)

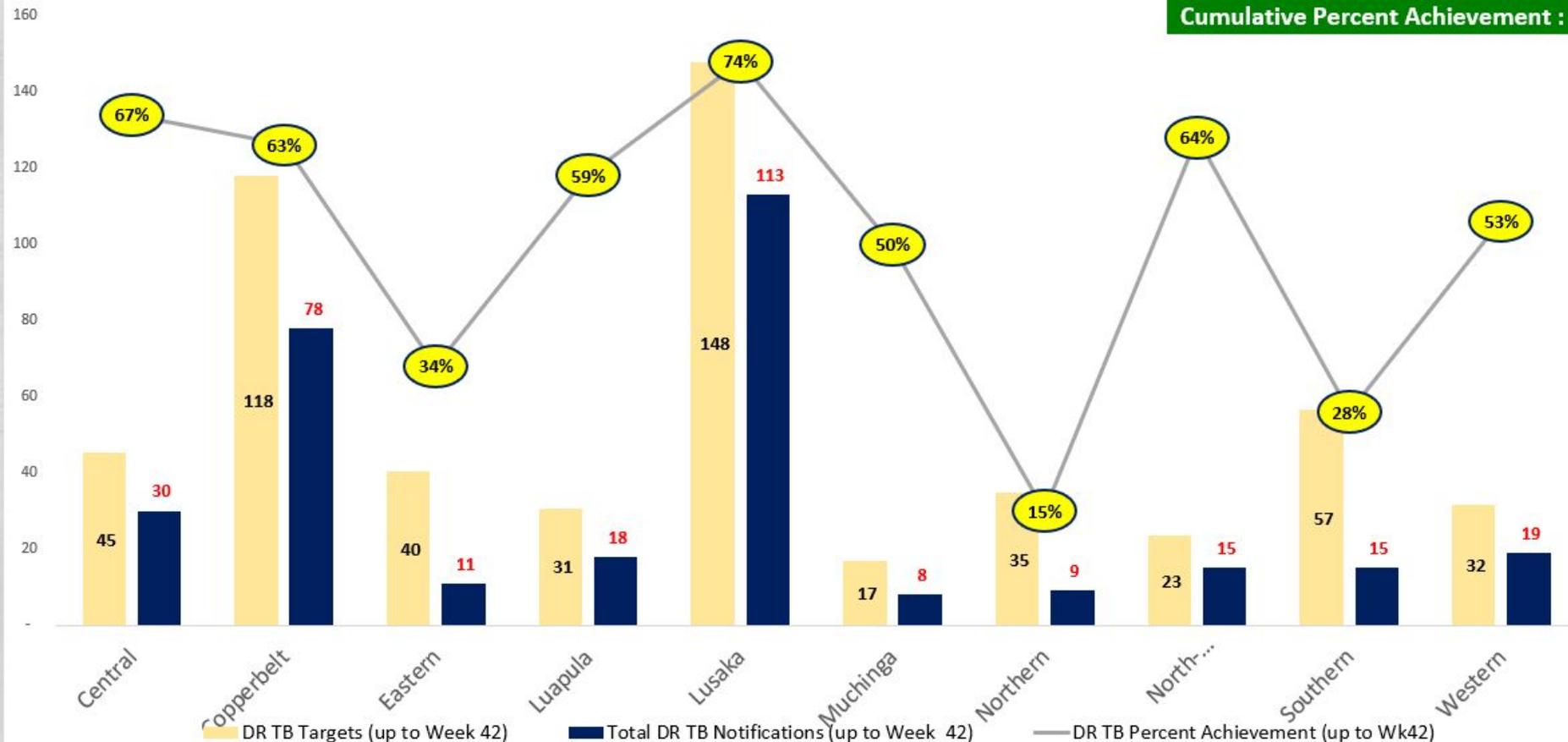


Cummulative Notification vs Cumulative deficit (up to Week 42)

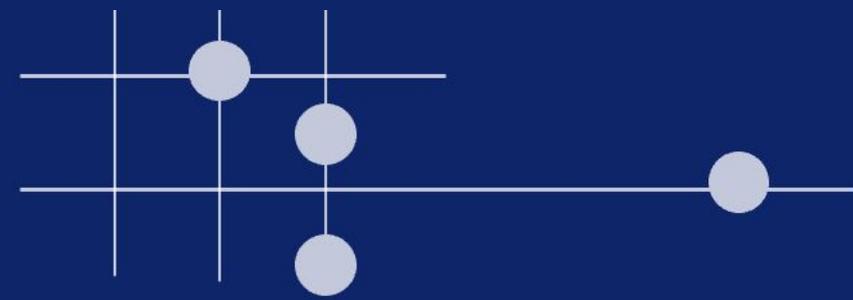


Achievement against DR-TB Notification Target (up to Week 42)

Cumulative Target : 545
 Cumulative Notifications : 316
 Cumulative Percent Achievement : 58%



**Thank
You**



Nigeria's TB Situation Room

Nigeria TB Situation Room

..... *for real-time decision making*



Dr. Obioma Chijioke-Akaniro
National Tuberculosis, Leprosy and Buruli Ulcer
Control Programme

Collaboration, Communication & Control

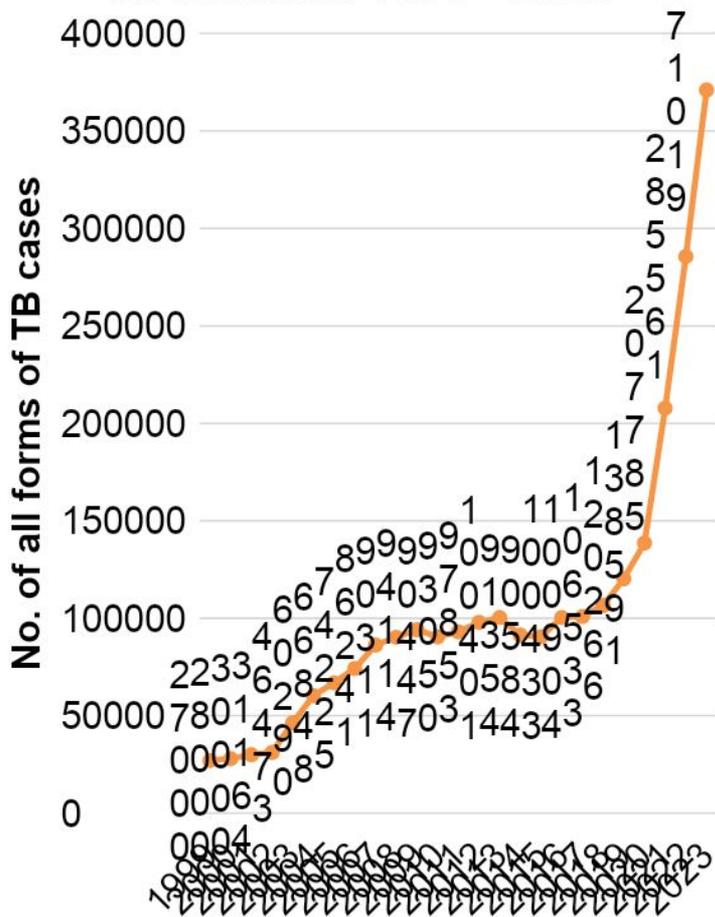
Our TBSR has become a discovery place for us
A cozy quiet place where everything makes a meaning
Real time tracking (DRS, Child Testing Week, Triangulations)

The Drug Resistance Survey Data management room using Tele-conference

- Validation of each entry
- Tele-connect for any flagged site
- Everyone views the flagged entry
- Corrections real-time

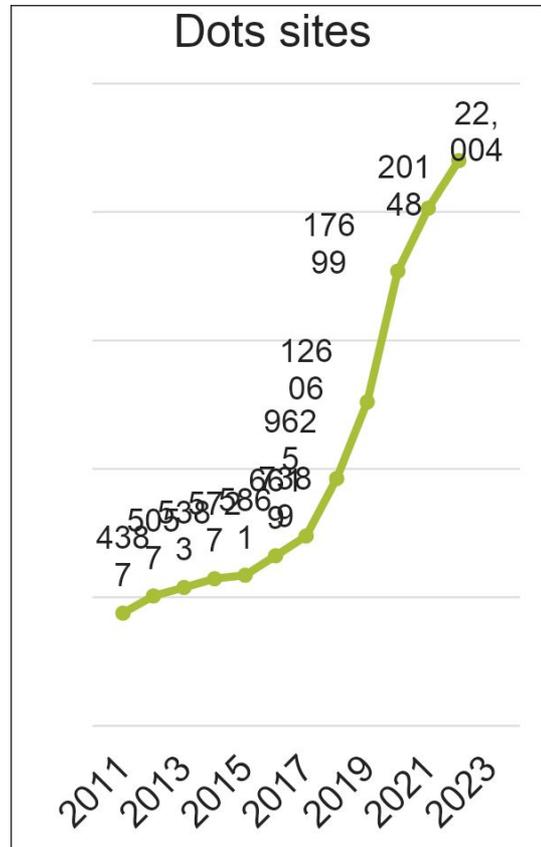


National Trend in TB case notification 1999 - 2023



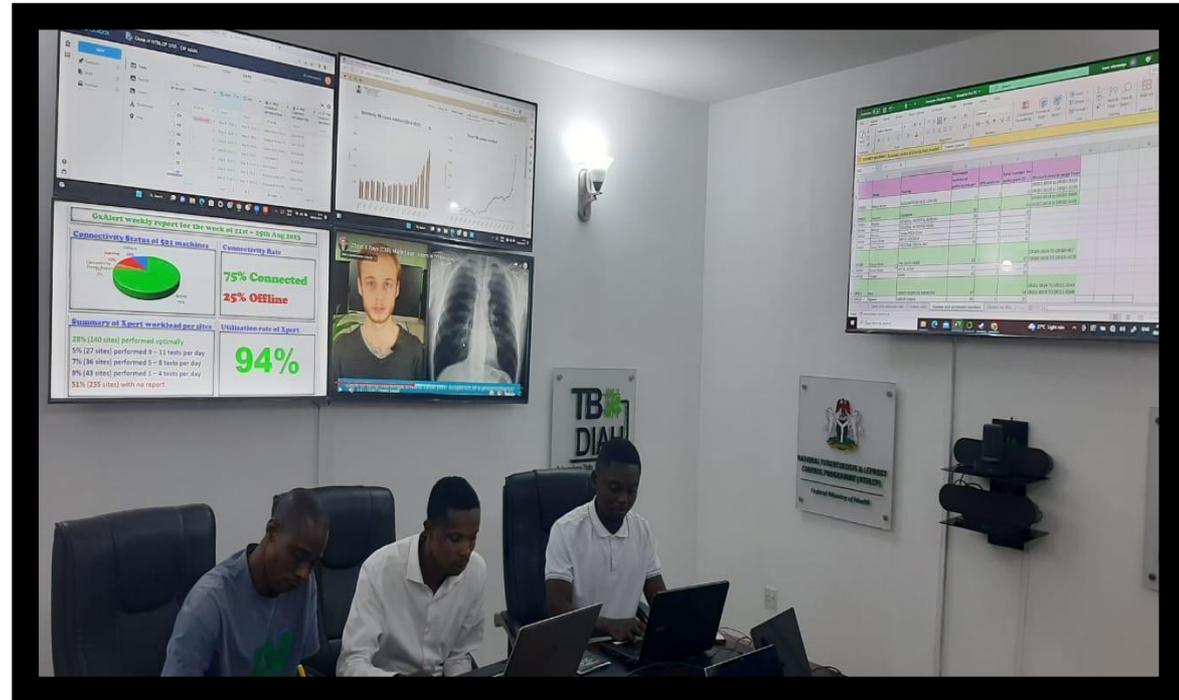
*Why Nigeria established a TBSR.....***LARGE DATA, Numerous entry points**

- A country of >200 Million pop.
- TB burden of almost 500,000
- Screening cascade starts with millions of person requiring analysis
- Data input growing as more patients were identified requiring Visibility along care cascade
- Loads of indicators fed by different variables along care continuum

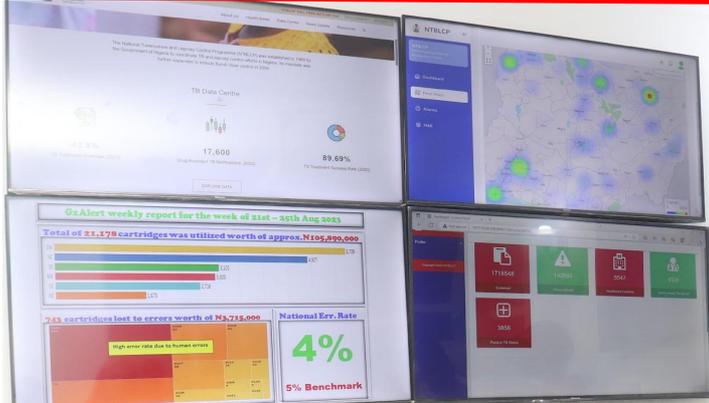


The Format Nigeria TBSR takes: Virtual, Physical

- Data entry, more than 22,000 facilities (Public & PPM)
- More than 3000 community TB workers Nationwide,
- About 500 Xpert sites



Launching of the situation room



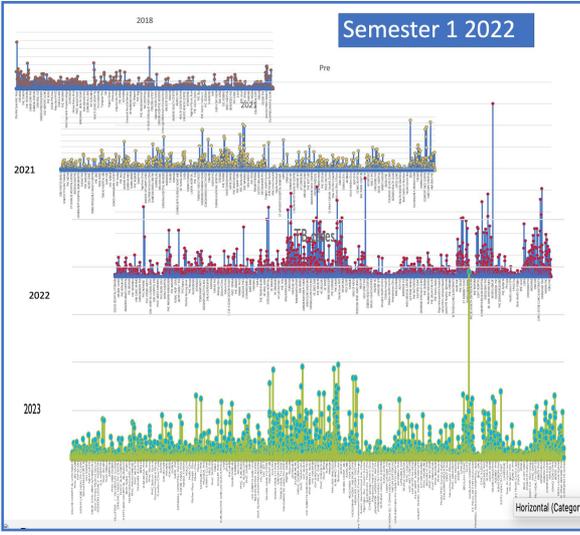
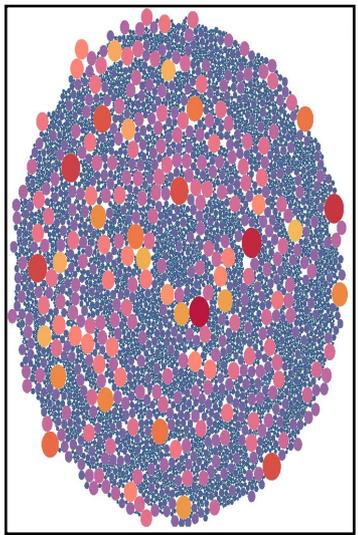
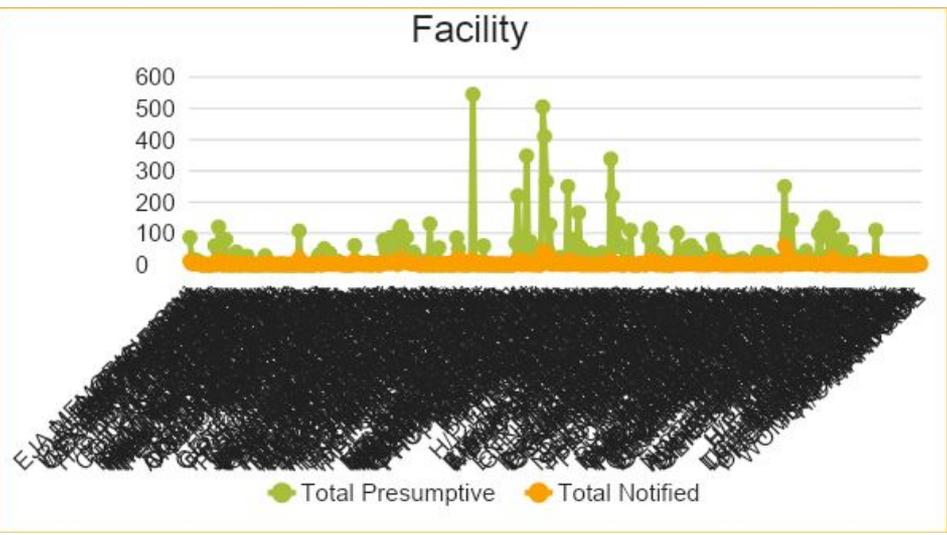
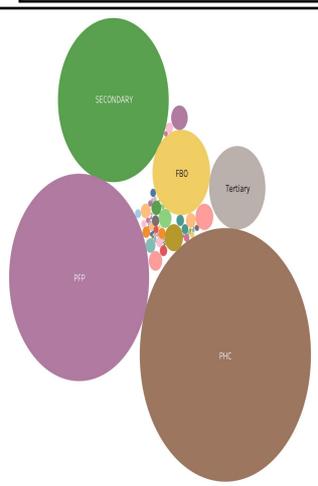
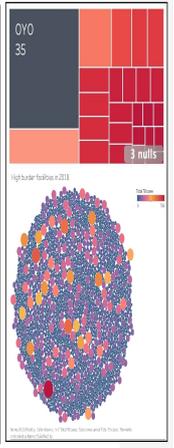
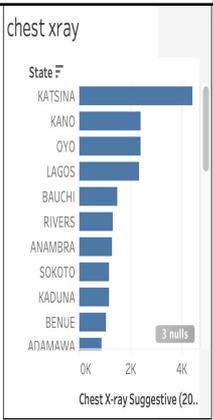
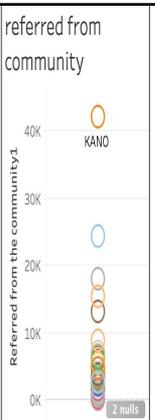
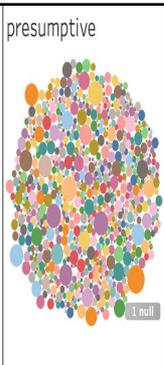
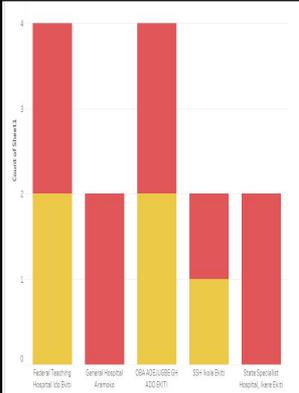
Web and Electronic App Dashboards: MATS, EWORS, NTBLCP website



NTBLCP Tableau Dashboard

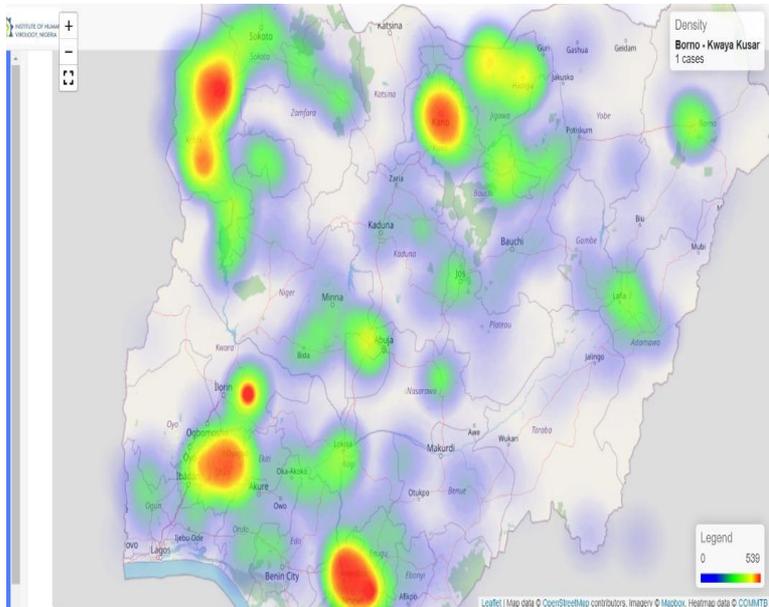


Interactive Data visualization

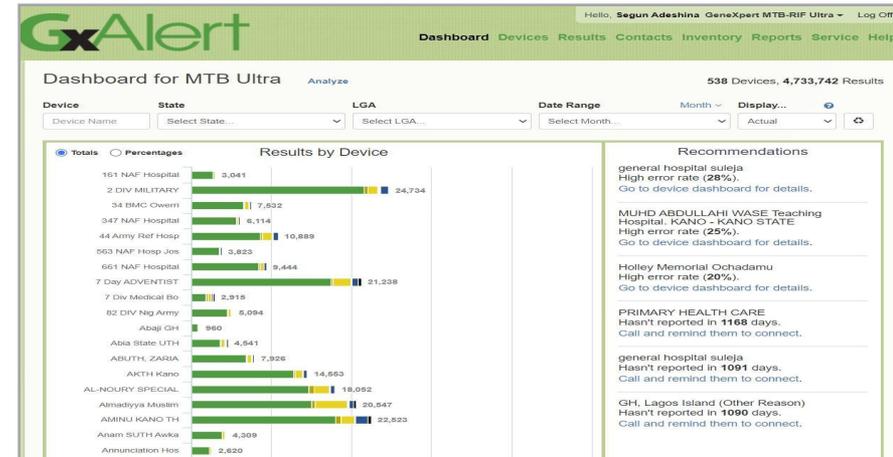


LIVE & REAL TIME

Comm-TB maps hotspot by community/ward level in the EWORS
More precise for targeted case finding



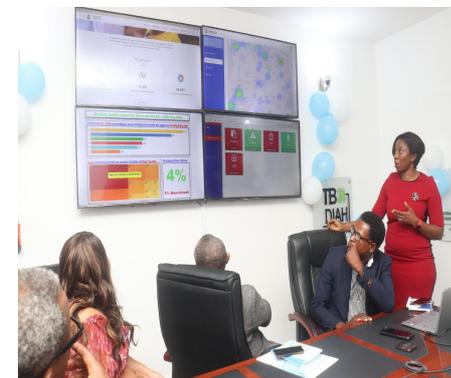
Multi-layered data review and analysis



Set up and its challenges;

Overcame the challenges

Have a common goal and a plan



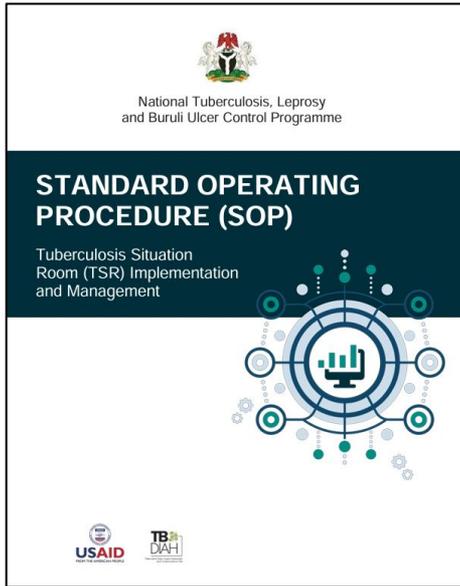
TB Situation Room: Data sharing platform, enables the display of information in dashboards, enhance data use and decisions making to improve the quality of TB services.

Key Features

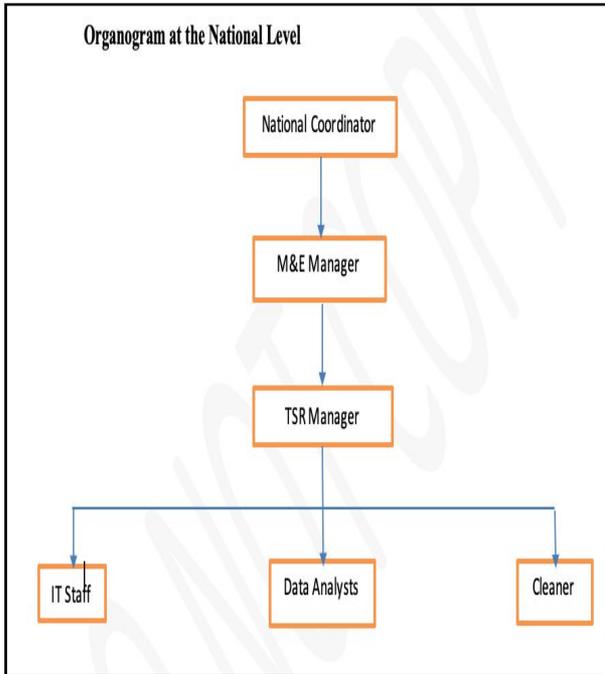
- Access to real-time or near real-time data
- Multi-layered data review and analysis
- Data visualization
- Collaboration and communication tools:
- Data security and privacy

SOP helps for maintenance and mitigating misuse

The roles and responsibilities of the TSR staff are as follows



Coordination:
The NC will coordinate the activities of the TSR through the M&E unit of the programme. A bi-monthly coordination meeting will be held with the staff of the TSR to monitor progress, achievements, identify and address affecting optimal functioning of TSR and data use.



Staff	Roles
TSR manager	<ul style="list-style-type: none"> Ensure effective functioning and administration of the TSR Develop weekly meeting schedules to analyses data, develop & track action plans and provide feedback. Develop weekly/monthly report on activity of the TSR and disseminate as appropriate. Identify training needs of the data source (facilities, LGA & communities) Organize monthly data use meetings with all stakeholders Produce actions plan, monthly & quarterly bulletin. Perform any other duties that may be assigned by STBLCPMM&E Officer.
Data Analyst	<ul style="list-style-type: none"> Review data sent in from the data source (facility, LGA, State, Community, partners and other programs). Identify and communicate gaps in the data to the source within a day Support the source to correct and address the gaps as appropriate Conduct data analysis and visualization of agreed indicators on the monitor using the standard template. Identify capacity gaps of the data source and communicate to the TSR manager Ensure electrical appliances are switched off at the end of the day Always ensure data security and confidentiality Ensure regular back up of data on the cloud and other sources Provide weekly/monthly report to the TSR manager Perform any other TSR related duties assigned by the
IT officer	<ul style="list-style-type: none"> Provide IT support to ensure effective functioning of the TSR including holding of schedule meetings Ensure safeguard and maintenance of IT equipment always Ensure functionality and regular maintenance of the equipment, electrical appliances, laptops, monitors, etc in the TSR Provide regular update of software, internet facilities in the TSR Perform any other TSR related duties assigned by the TSR manager
Cleaner	<ul style="list-style-type: none"> Ensure regular cleaning of TSR and good ambience for meetings. Ensure TSR is appropriately locked at the close of business and submit key to the assigned security unit. Perform any other TSR related duties assigned by the TSR manager

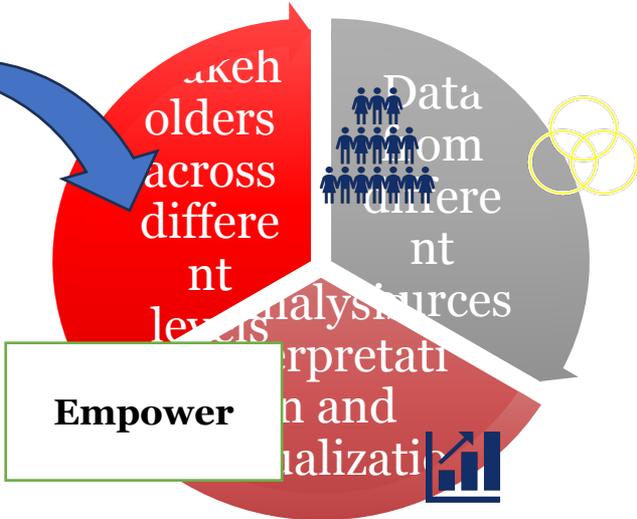
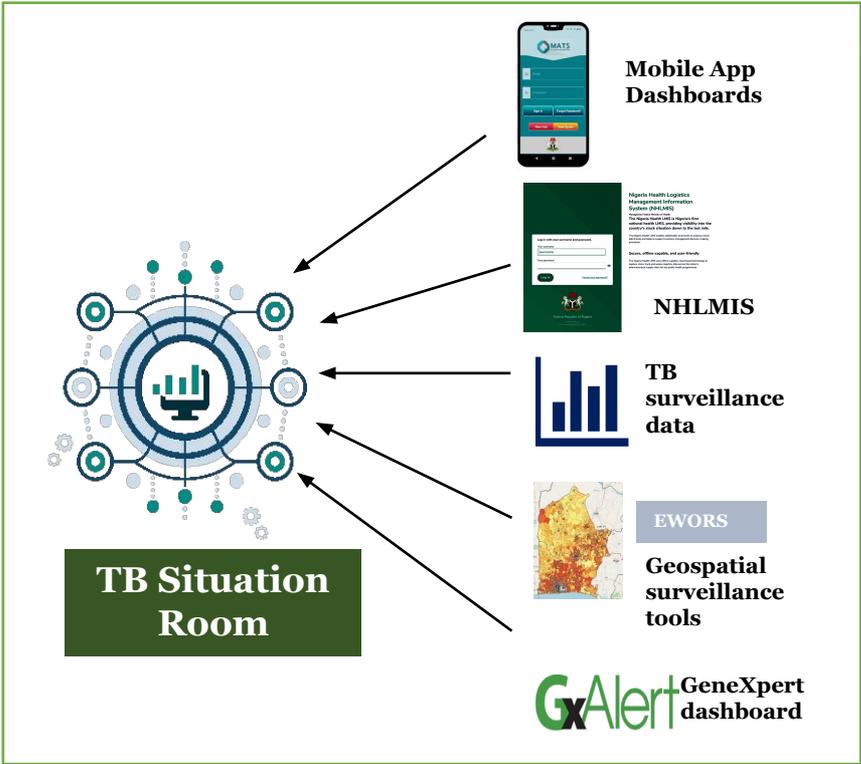
Safeguard against tempering by unauthorized users

Keep door to the TSR always locked when not in use. Visitors must have a scheduled appointment to access the TSR Make available a visitor register and visitors must sign in and out whenever they visit the TSR. Non staff must be accompanied by a staff while in the TSR. Non staff must be granted permission before operating any of the TSR devices

Results and Opportunities



utilization: NTP Manager and team



Lesson Learnt

From Establishment

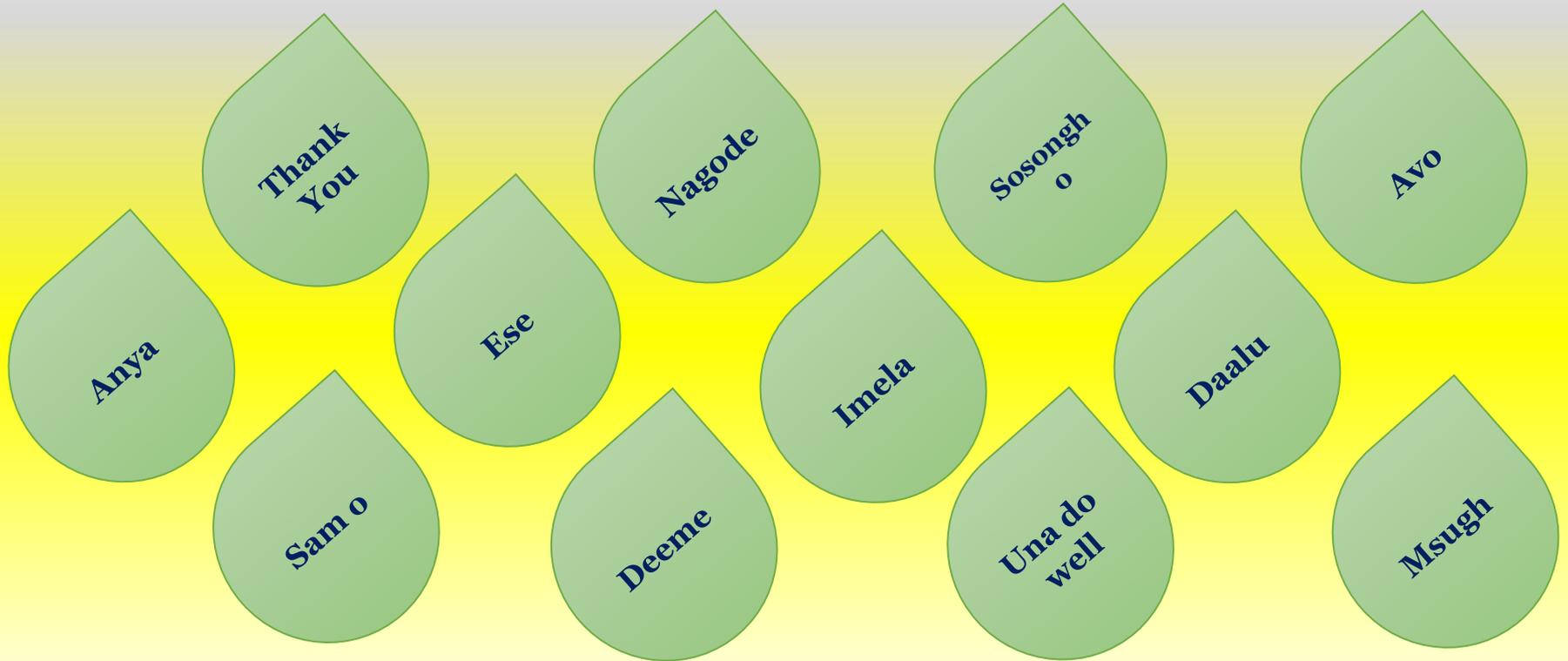
- Set an agreeable goal
- A rapid assessment isn't a waste of time
- Don't assume the process of use and maintenance, have an SOP handy developed with stakeholders
- SOP is the tool to mitigate misuse

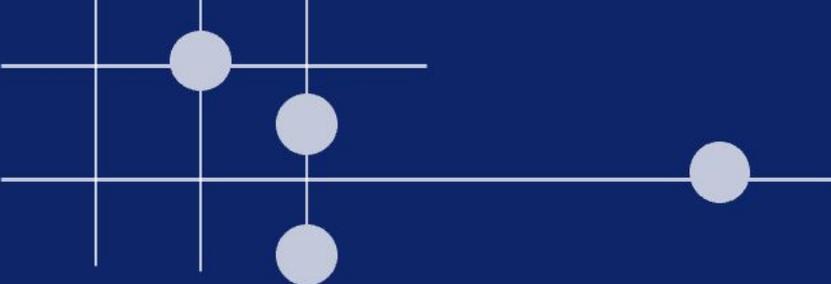
TBSR

- You haven't seen it all until its view is interactive
- Situation room-Justification room-conviction room-strategy room
- Have your keys focal persons in the room for reviews (informed decision)



National Tuberculosis, Leprosy and Buruli Ulcer Control Program, Nigeria





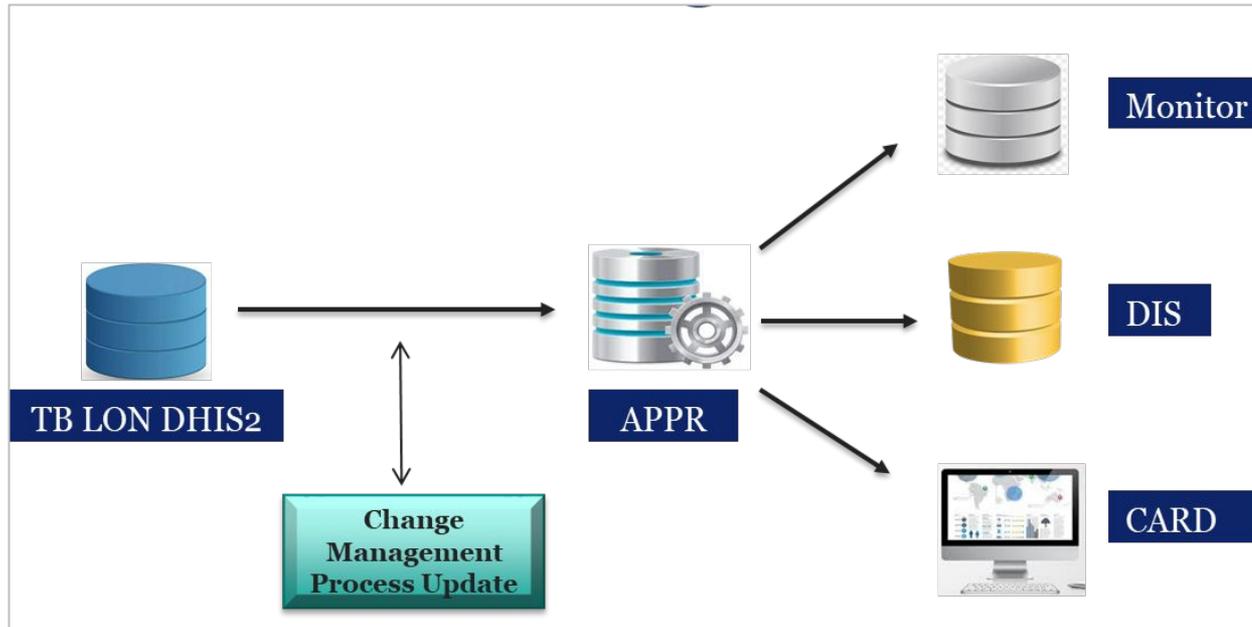
Nigeria's Automatic Partners Progress Report (APPR)

Outline

- Introduction to the APPR
- APPR development and process flow
- APPR architecture
- Alignment of Performance Based Monitoring and Evaluation Framework (PBMEF) and APPR—indicators and data elements
- APPR administrative maintenance
- Data quality in APPR
- Benefits of APPR

APPR: What is it?

USAID HIV/AIDS & TB Office (HAT) data management platform configured on a DHIS2 backbone and architecture that enables seamless data integration across different data platforms and improves data quality by minimizing manual entries and data imputation errors



Key:

TB LON: Tuberculosis Local Organization Network

APPR: Automated Partners Progress Report

DIS: Development Information Solution

CARD: Comprehensive Access and Review Dashboard portal

APPR: Objectives



Optimize availability and ease of use of data

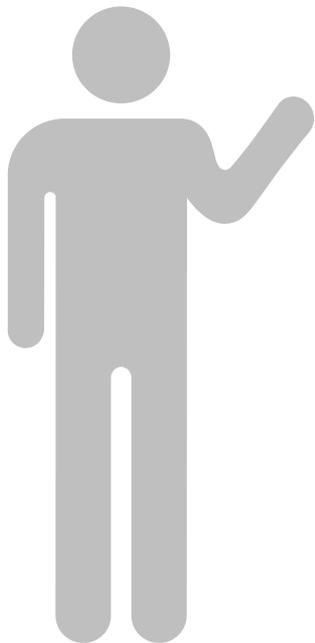


Provide strategic direction and oversight to ensure quality across the HAT PEPFAR data continuum



Facilitate ease of reporting and data exchange with other platforms

Why APPR?



Data Visibility

- Data visibility is enhanced so that the donor, and stakeholders can visualize the dashboard, performance indicators, and targets



Data Use

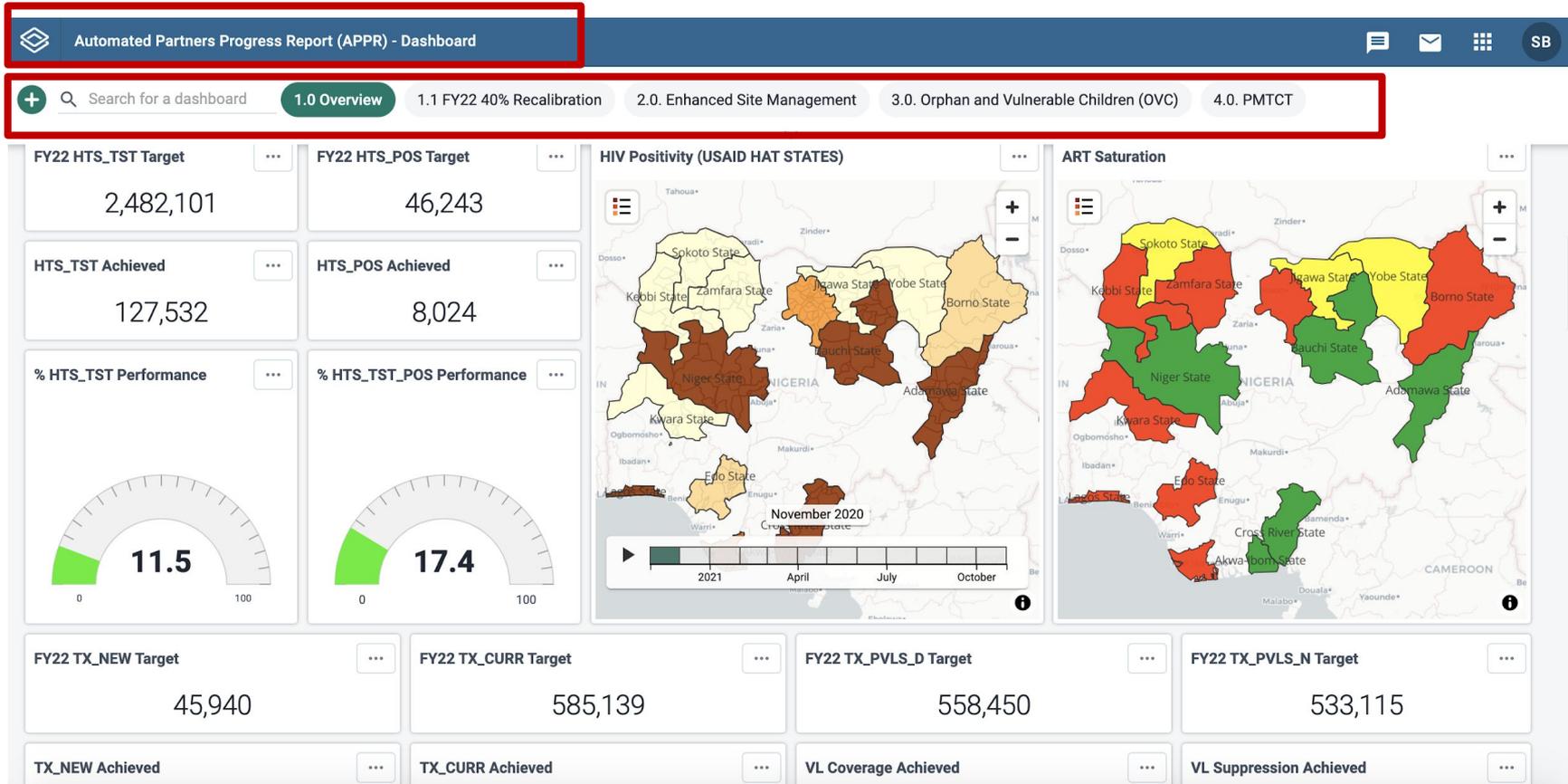
- Supports decision making and maximizes the use of data for real time performance monitoring of TB data



Data Quality and Governance

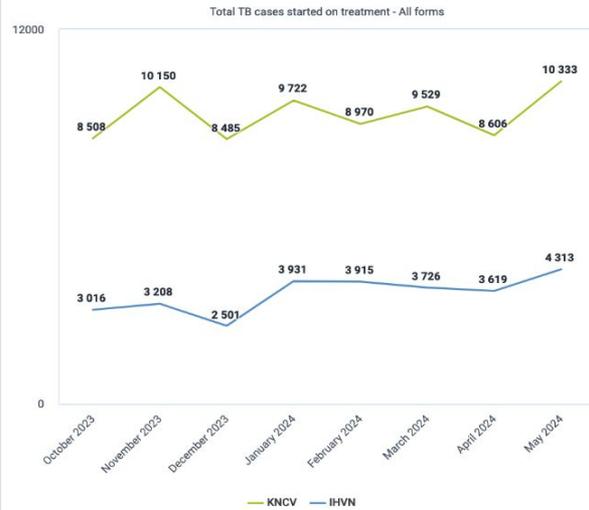
- Data quality is assured, and data governance and organizational structure is entrenched
- Timeliness and completeness

APPR Dashboard (Landing Page) at Inception

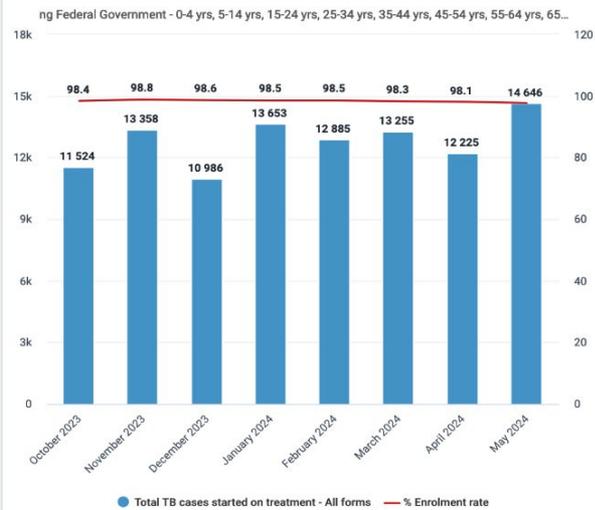


Current TB APPR Dashboard (Landing Page)

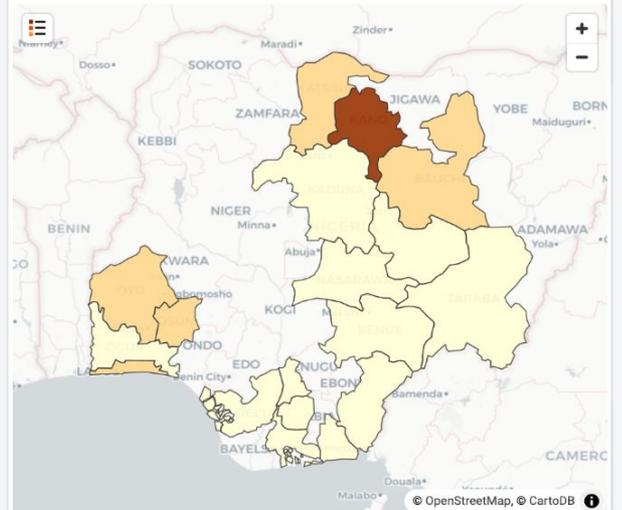
Monthly Trend of TB case notification by IP



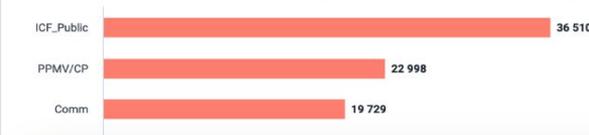
TB Enrolment Rate (%)



Map of TB cases Notified in 18 USAID Supported States



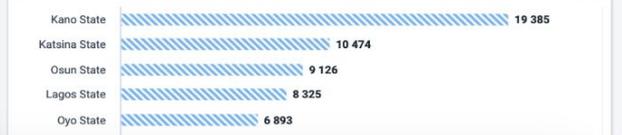
TB Notification by Intervention from October 2023 - May 2024



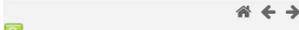
TB Notification by Month from October 2023 - May 2024



TB Notification by State from October 2023 - May 2024



APPR Data Entry Page



- ing Federal Government
- Abia State
- Adamawa State**
- Akwa-Ibom State
- Anambra state
- Bauchi State
- Bayelsa State
- Benue State
- Borno State
- Cross River State
- Delta State
- Ebonyi State
- Edo State
- Ekiti State
- Enugu State
- Federal Capital Territory
- Gombe State
- Imo State
- Jigawa State
- Kaduna State
- Kano State
- Katsina State
- Kebbi State
- Kogi State
- Kwara State
- Lagos State

Data Entry ?

✖ Adamawa State - October 2021 - No Data Element Selected

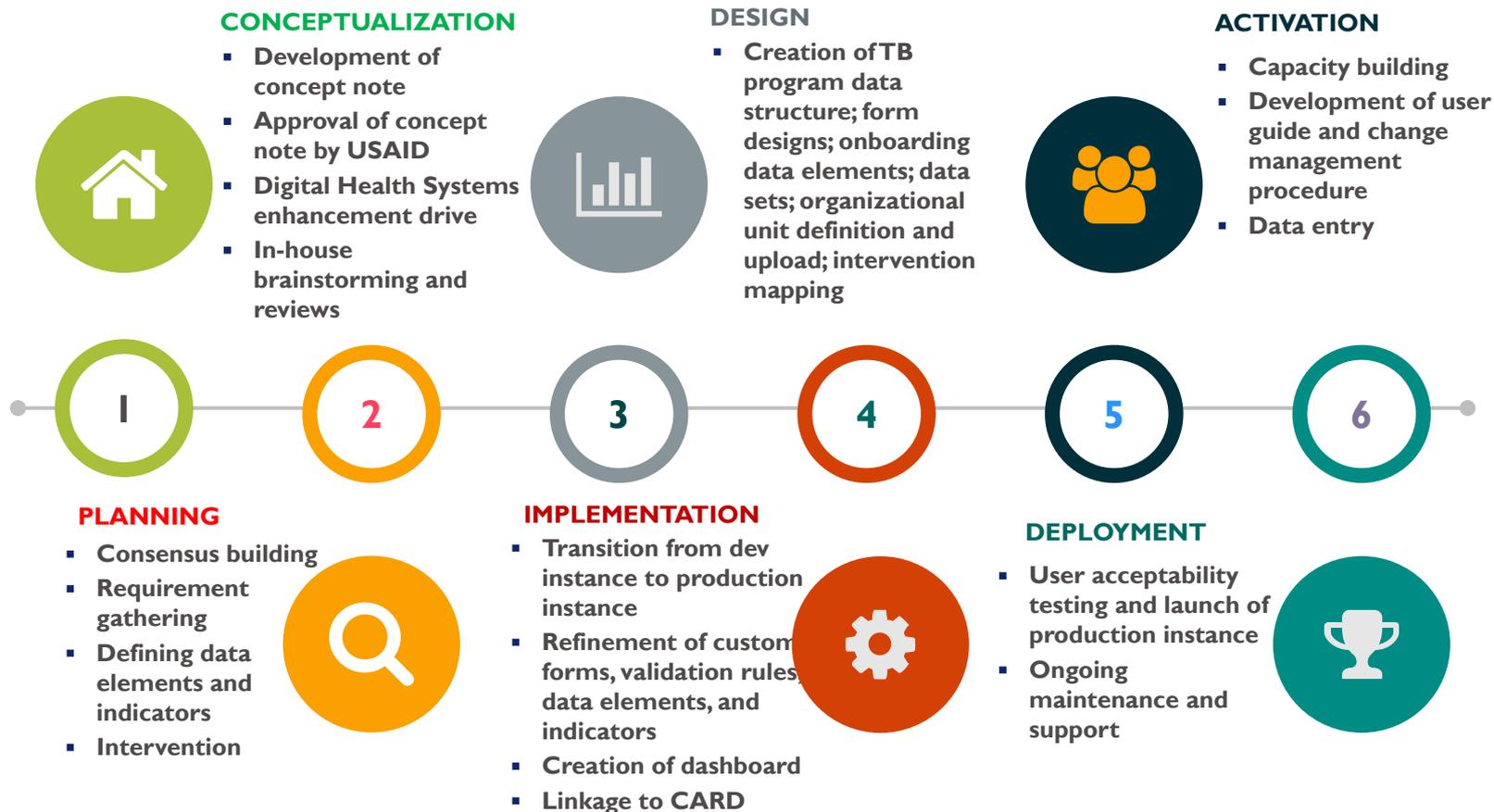
Organisation Unit	Adamawa State
Data Set	TB_Program
Period	October 2021 <input type="button" value="Prev year"/> <input type="button" value="Next year"/>
TB_Partners	KNCV

-
-
-

New Cat

		Health Facility	PPF	TBA/TMP	PMV	LAB	Community	Contact Investigation		
Indicator			0-4	5-14	15-24	25-34	35-44	45-54	55-64	65+
Number of clients screened for TB	Female		<input type="text"/>	<input type="text"/>	<input type="text"/>					
	Male		<input type="text"/>	<input type="text"/>	<input type="text"/>					
Number of clients presumed to have TB	Female		<input type="text"/>	<input type="text"/>	<input type="text"/>					
	Male		<input type="text"/>	<input type="text"/>	<input type="text"/>					
			0-4	5-14	15-24	25-34	35-44	45-54	55-64	65+
Number of presumptive	Female		<input type="text"/>	<input type="text"/>	<input type="text"/>					

APPR Development and Process Flow



ALIGNMENT OF PBMEF AND APPR – INDICATORS AND DATA ELEMENTS

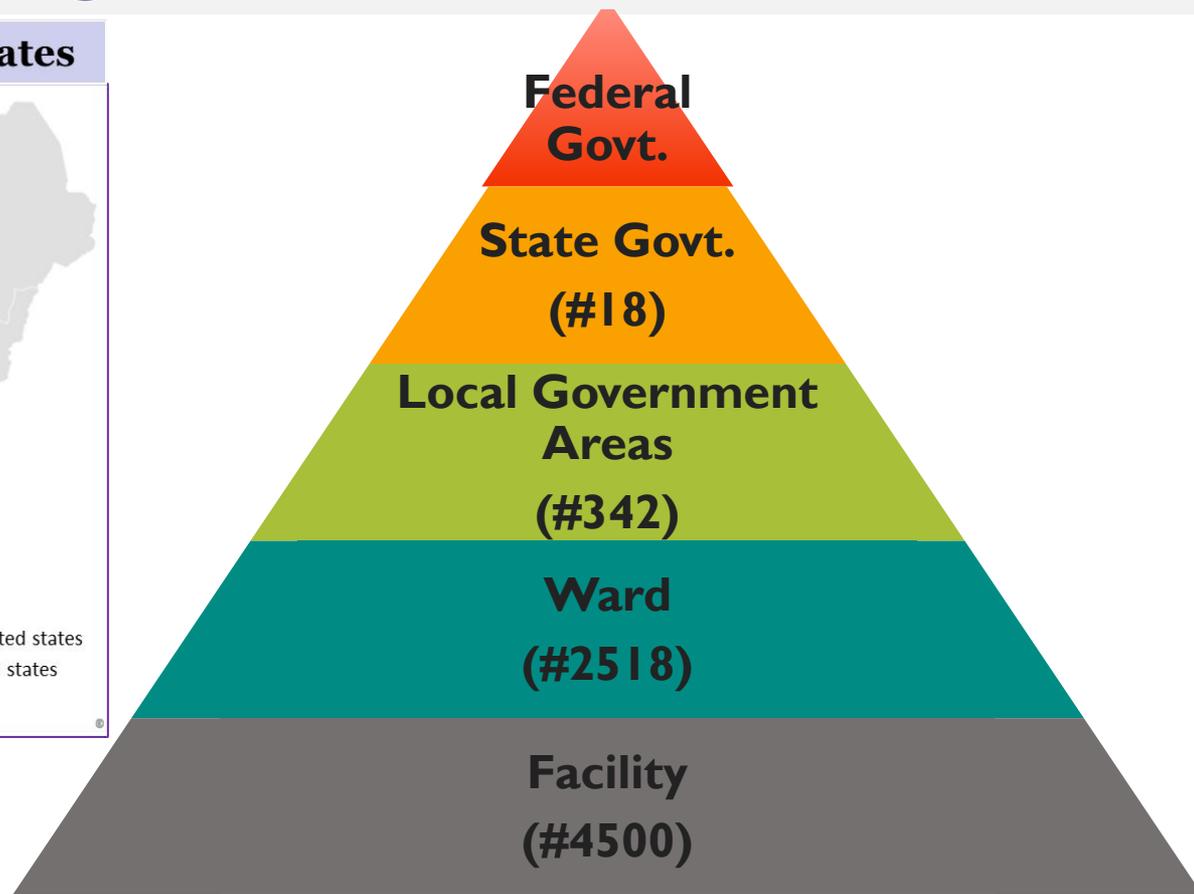
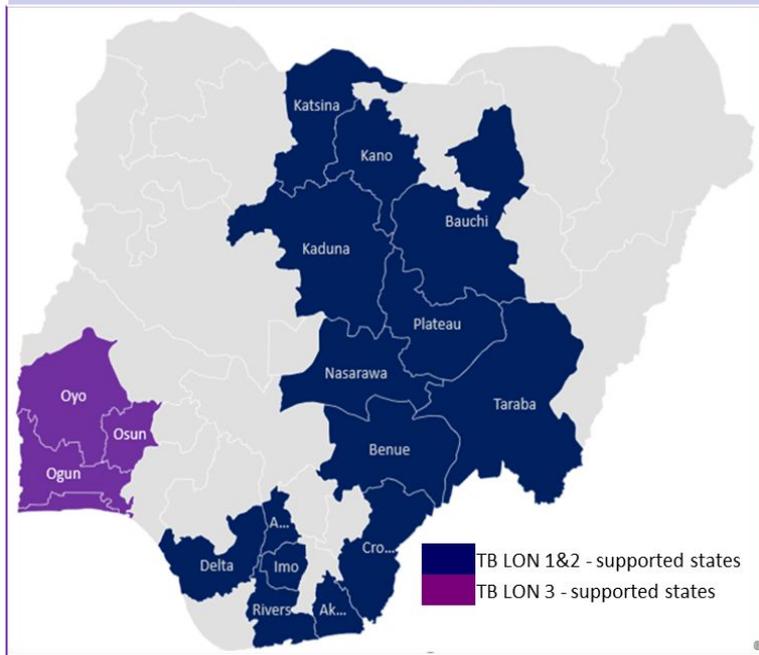
OBJECTIVES	INDICATOR TECHNICAL AREAS	DATA ELEMENTS IN APPR	USAID TARGETS OUTCOME	
<p>REACH</p>  <p>Maximize the detection of all forms of TB in all individuals of all ages</p>	<ul style="list-style-type: none"> ▪ TB detection rate/treatment coverage ▪ Bacteriological coverage ▪ Childhood TB notification ▪ Drug-resistant TB (DR-TB) notification ▪ Contact investigation coverage ▪ Private sector notification ▪ Presumptive TB 	<ul style="list-style-type: none"> ▪ Number of clients screened for TB ▪ Number of clients presumed to have TB ▪ Number of presumptive cases evaluated for TB ▪ Number of clients diagnosed with DS-TB ▪ Number of clients diagnosed with DR-TB ▪ Number of clients diagnosed with all forms of TB ▪ Number of clinically diagnosed TB patients ▪ Number of bacteriologically diagnosed TB patients ▪ Number of DS-TB patients started on treatment ▪ Number of DR-TB patients started on treatment ▪ Number of all forms of TB patients started on treatment ▪ Number of all clients new and relapse TB Cases ▪ Bacteriologically – new and relapse TB cases 	<p>90% of incident TB cases diagnosed and initiated on treatment</p> <p>90% treatment success rate</p>	<p>Decrease TB Mortality by 35% by 2030</p>
<p>CURE</p>  <p>Empower all individuals with TB to complete treatment and be cured</p>	<ul style="list-style-type: none"> ▪ Drug-sensitive TB (DS-TB) treatment success ▪ DR-TB treatment success 	<ul style="list-style-type: none"> ▪ Number of DS-TB cases reported in previous 12 months ▪ Number of DS-TB cases reported - Cured ▪ Number of DS-TB cases reported - Died ▪ Number of DS-TB cases reported - Loss to follow up ▪ Number of DS-TB cases reported - Not evaluated ▪ Number of DS-TB cases reported - Treatment completed ▪ Number of DS-TB cases reported - Treatment failure ▪ Number of DS-TB cases removed from register ▪ Number of DR-TB cases reported in previous 24 months ▪ Number of DR-TB cases reported - Cured ▪ Number of DR-TB cases reported - Died ▪ Number of DR-TB cases reported - Loss to follow up ▪ Number of DR-TB cases reported - Not evaluated ▪ Number of DR-TB cases reported - Treatment completed ▪ Number of DR-TB cases reported - Treatment failure 	<p>30 million on TPT</p> <p>TBD</p>	<p>Decrease TB Incidence by 52% by 2030</p>
<p>PREVENT</p>  <p>Stop the spread of new infections and progression from infection to active TB disease</p>	<ul style="list-style-type: none"> ▪ TB preventive treatment (TPT) ▪ Prevention 	<ul style="list-style-type: none"> ▪ Number of contacts screened for TB ▪ Number tested for TBI ▪ Number of contacts eligible for TPT ▪ Number of contacts started on TPT ▪ Number placed on 3HR ▪ Number placed on 6H ▪ Number placed on 1HP 	<p>TBD</p>	
<p>SUSTAIN</p>  <p>Build country-owned TB systems, led by local partners, that accelerate progress and support pandemic preparedness</p>	<ul style="list-style-type: none"> ▪ TB financing expected from domestic sources 	<p>N/A</p>	<p>Global investments reach \$13 billion by 2022</p>	

APPR Architecture



APPR Architecture: Organizational Unit

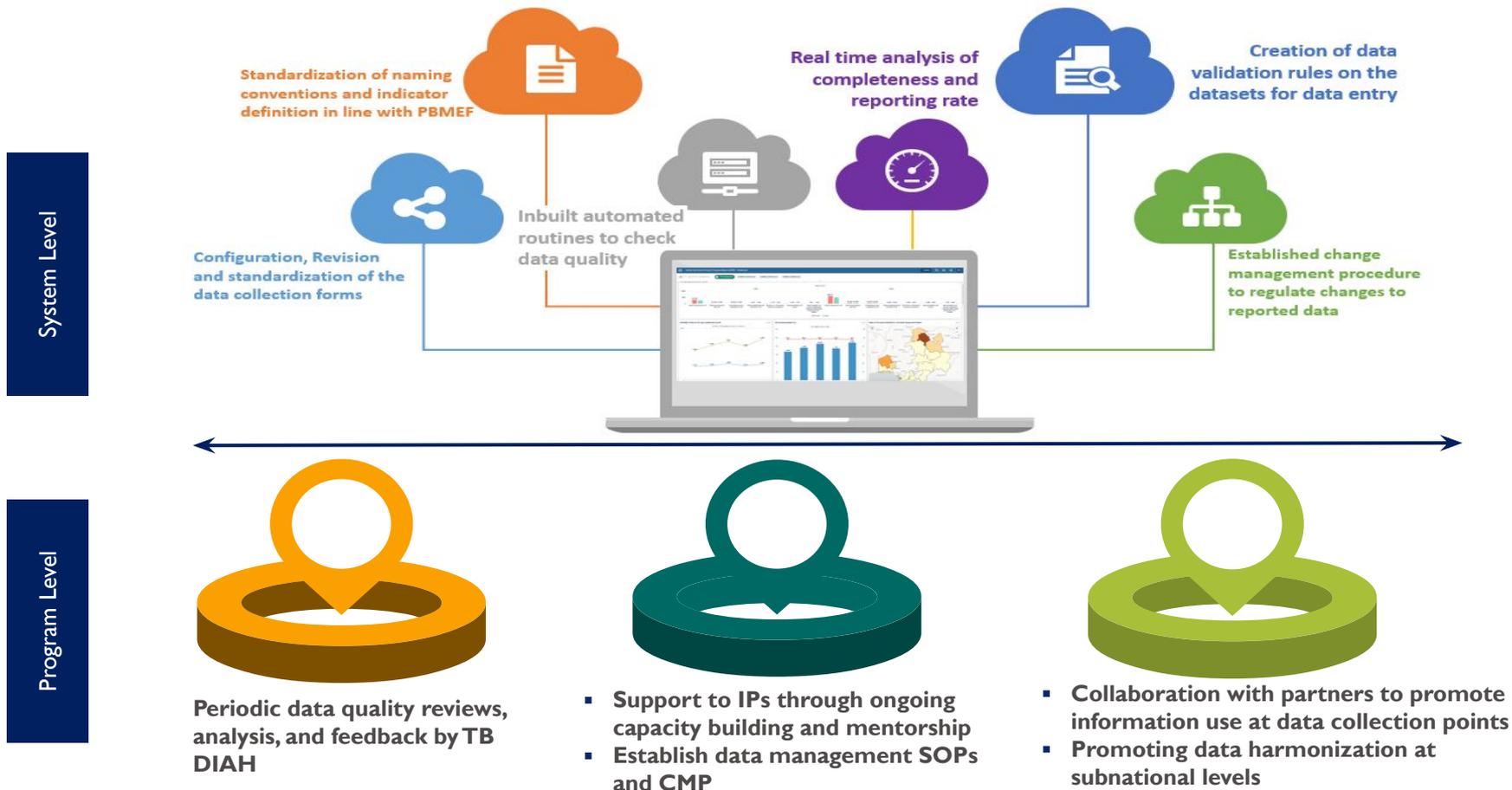
18 USAID/TB LON supported states



Intervention Mapping in the APPR



Data Quality Assurance in APPR

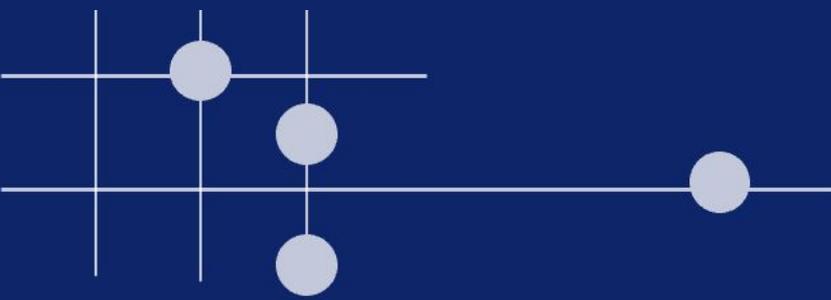


Benefits of APPR

- Improves data management support for the Mission and IPs by establishing a database and facilitating data analysis and use.
- Facilitates alignment with PBMEF guidance through standardizing reporting requirements and timelines across IPs, thus improving data quality.
- Reduces the data entry workload and improves data analytics and visualization.
- Facilitates IPs' transition from an Excel-based data system to DHIS 2 and interoperability and data exchange among data platforms.

TB APPR Web Address:

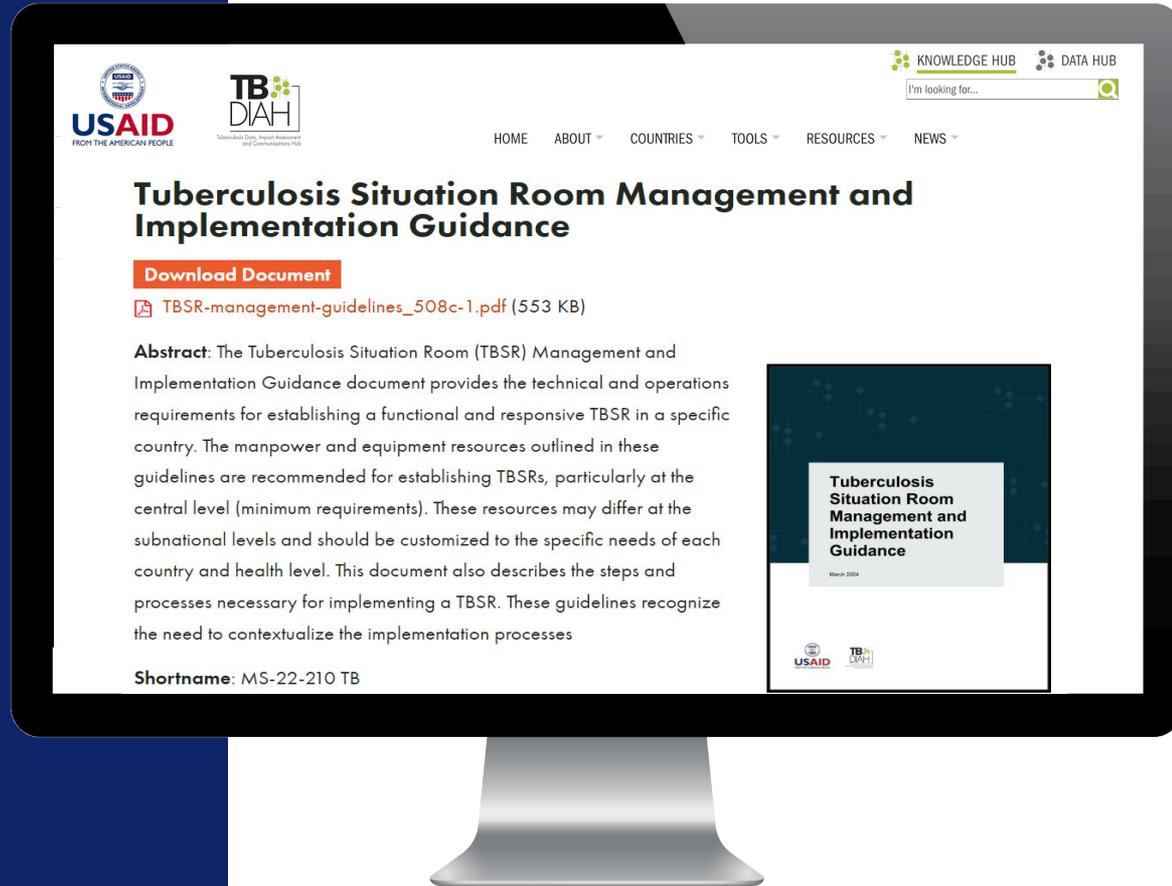
<https://tb.hatappr.org/dhis-web-dashboard/#/>



TB Situation Room Management and Implementation Guidance

Introducing the TBSR Management and Implementation Guidelines

Now available in
the TB DIAH
Resource Library



Who is the TBSR guidance for?



PRIMARY

- ✓ TB program managers
- ✓ Service providers
- ✓ Implementing partners
- ✓ Data managers
- ✓ MEL specialists



SECONDARY

- ✓ Policy makers
- ✓ Donors
- ✓ Program administrators
- ✓ Civil Society Organizations

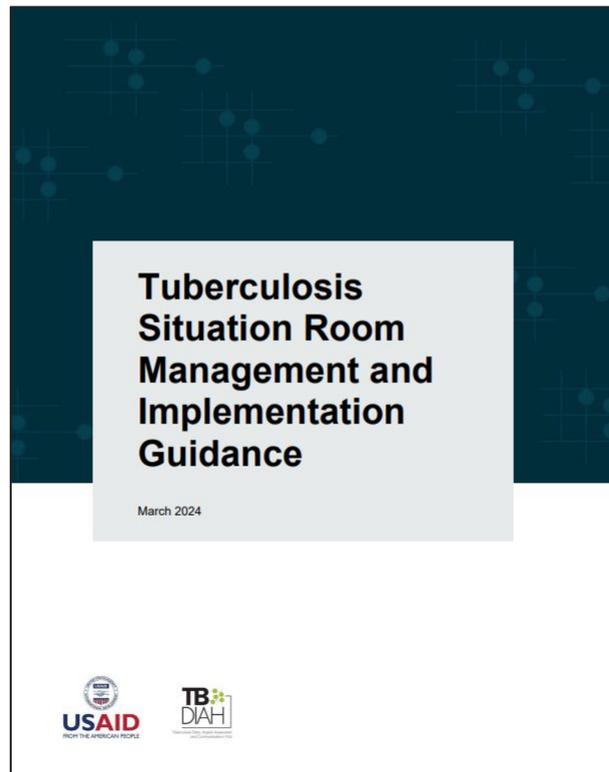
What does the guidance offer?

For the national level:

- Technical and operations requirements for establishing a functional and responsive TBSR in a specific country including:
 - ✓ manpower
 - ✓ equipment resources
- Steps and processes necessary for implementing a TBSR

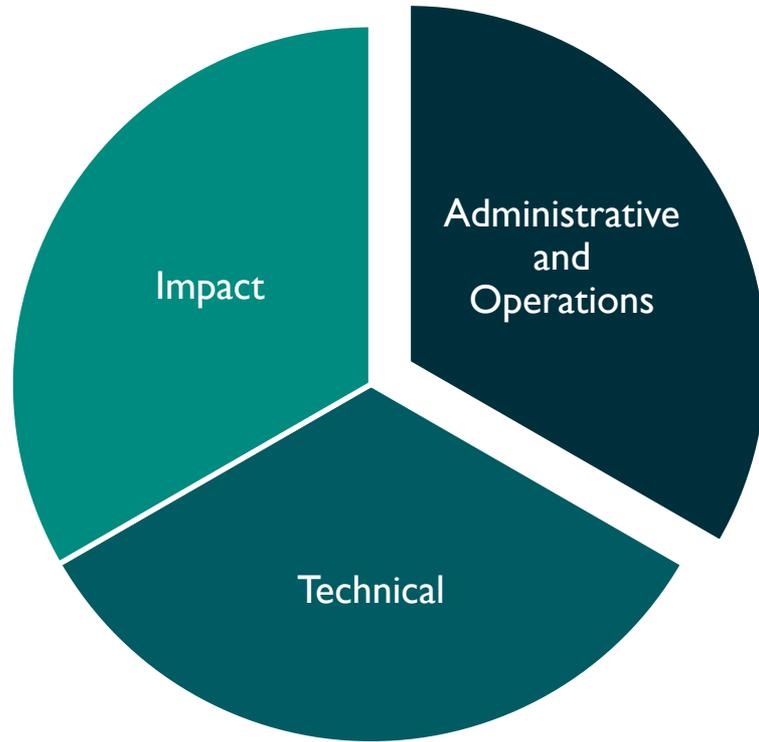
For the sub-national level:

- Discussion of the different resource and implementation requirements at the subnational levels



Management and team composition

TBSR operates with three functional roles: administrative and operations team, technical team, and Impact team (Dashboard viewers)

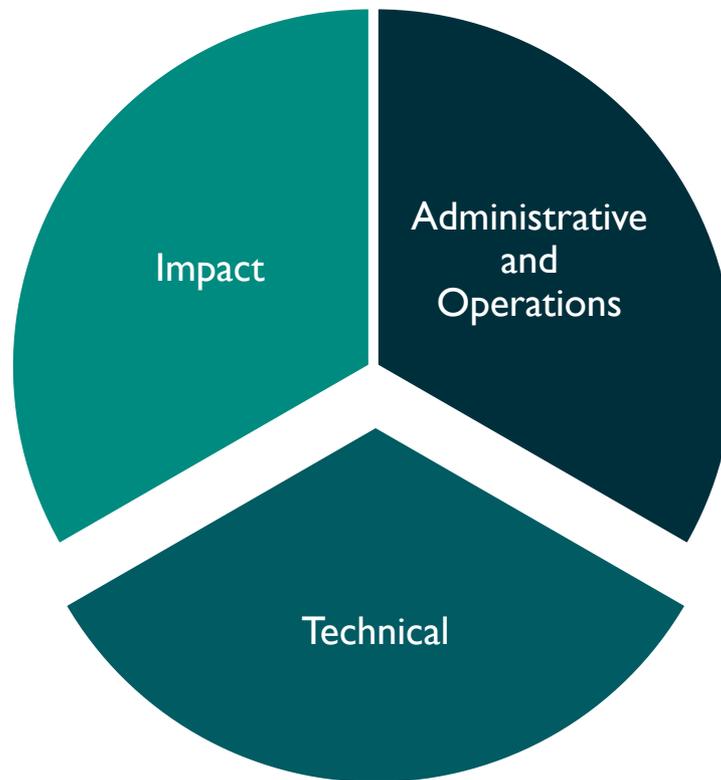


- **Administrative and Operations**
- Technical
- Impact

Management and team composition (cont'd)

TBSR operates with three functional roles: administrative and operations team, technical team, and Impact team (Dashboard viewers)

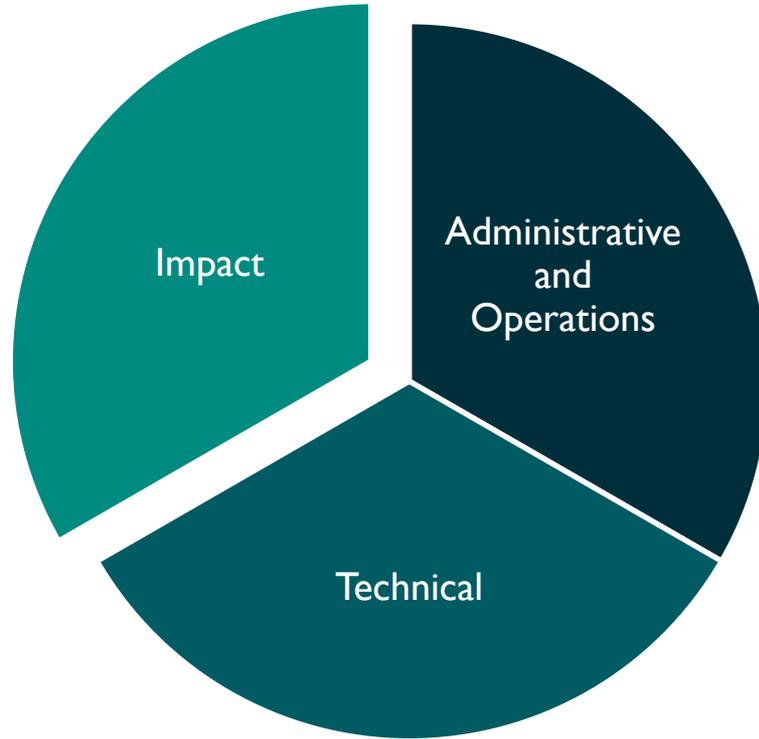
- Administrative and Operations
- **Technical**
- Impact



Management and team composition (cont'd)

TBSR operates with three functional roles: administrative and operations team, technical team, and Impact team (Dashboard viewers)

- Administrative and Operations
- Technical
- **Impact**



Sustainability of TBSR



Review and Evaluation

- The NTP and technical partners must regularly review and evaluate the TBSR to ensure it meets user needs.
- The findings should be used as a guide when determining changes needed in the TBSR.



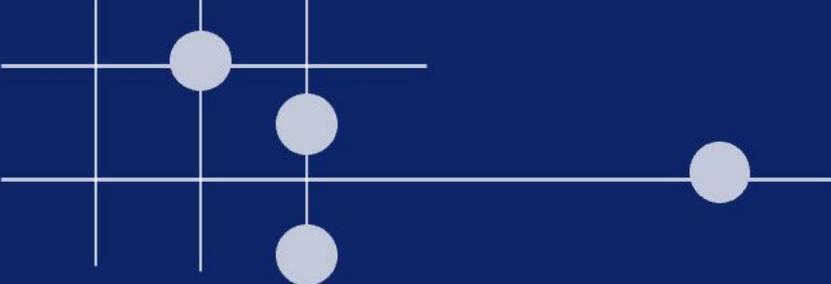
Collaboration, Learning and Adapting (CLA)

- Developing the capacity for reflection, research, analysis, and dialogue is necessary to ensure that TBSR implementation is always learning from what works and what does not
- By adopting these CLA principles TBSR partners will:
 - ✓ collaborate with NTPs and other stakeholders; a
 - ✓ ensure that progress toward the TBSR vision is guided by continuous learning and informed by evidence-based data; and
 - ✓ apply lessons learned



Leveraging the TB M&E TWG

- Use the TB M&E TWG to assist the impact team with data interpretation, analysis, and use in making evidence-based decisions



Q&A

Live Links

TBDIAH.org



<http://www.tbdiah.org>

TBSR Management
and Implementation
Guidance



<https://www.tbdiah.org/resources/publications/tuberculosis-situation-room-management-and-implementation-guidance/>

Nigeria APPR



<https://tb.hatappr.org/dhis-web-dashboard/#/>

For more information

Sevim Ahmedov

TB/HIV, Prevention and M&E Team Lead,
USAID Bureau for Global Health, Office of
Infectious Disease, TB Division



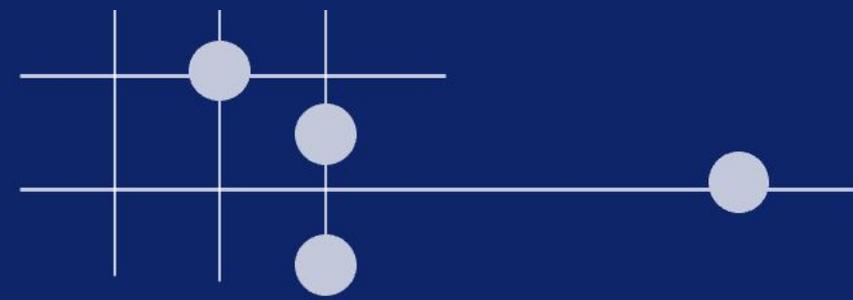
sahmedov@usaid.gov

Kola Oyediran

Senior Monitoring and Evaluation Advisor
TB DIAH Project



kolawole_oyediran@jsi.com



Thank You!



This presentation was produced with the support of the United States Agency for International Development (USAID) under the terms of the TB Data, Impact Assessment and Communications Hub (TB DIAH) Associate Award No. 7200AA18LA00007.

TB DIAH is implemented by the University of North Carolina at Chapel Hill, in partnership with John Snow, Inc. Views expressed are not necessarily those of USAID or the United States government.

PR-24-102e

