



# Five Year Project Summary

## National Stakeholders Meeting

27<sup>th</sup> September 2023

Radisson Blu, Lusaka



REPUBLIC OF ZAMBIA  
MINISTRY OF HEALTH



UNIVERSITY  
of MARYLAND  
BALTIMORE



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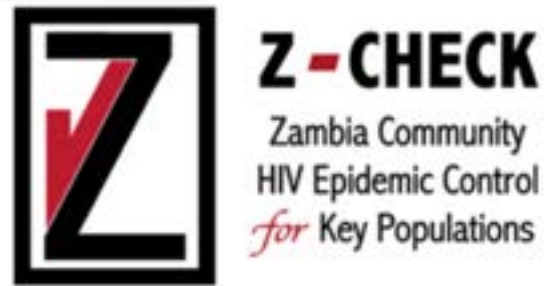
# Outline

- MOH & UMB Partnership
- UMB-CIRKUIITS Grant Overview
- Program Achievements
- Technical Innovations
- Health Policy Achievements
- Training and Capacity Strengthening
- Infrastructure
- Scientific Contributions
- Project Impact
- Lessons Learned



# MOH & UMB: 20 Year Partnership

2004  
2005  
2006  
2007  
2008  
2009  
2010  
2011  
2012  
2013  
2014  
2015  
2016  
2017  
2018  
2019  
2020  
2021  
2022  
2023



REPUBLIC OF ZAMBIA  
MINISTRY OF HEALTH



# UMB-CIRKUIITS Grant Overview & Program Landscape



Petauke Urban Clinic, 2018

# CIRKUIITS Project Objectives

- To close the gaps in HIV epidemic control in Zambia by providing HIV services to key and priority populations
- Aligned with MOH National Strategic Plan 2022-2026:  
***“Leaving No One Behind”***

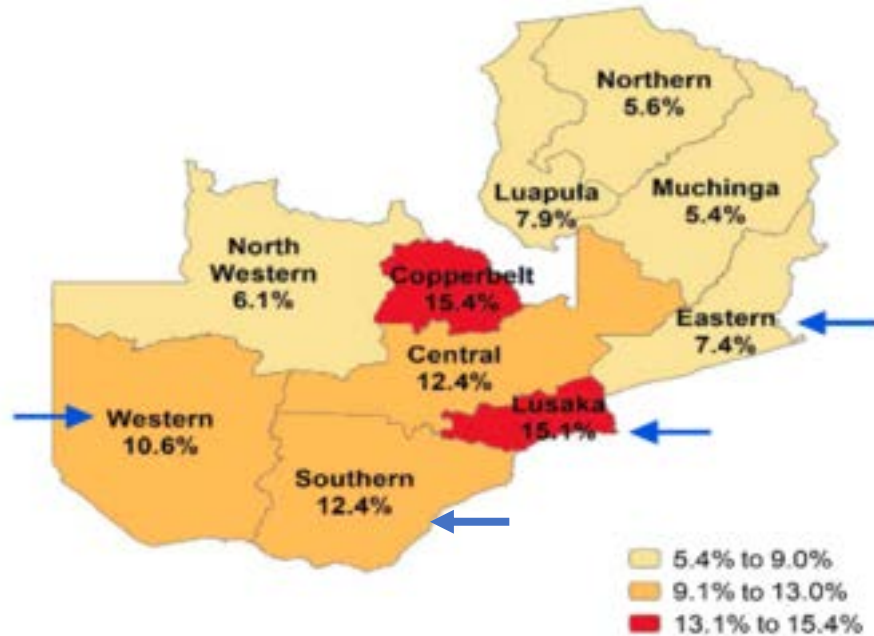


U=U Launch, Western, 2018

# CIRKUIITS Project

**Community Impact to Reach Key and Underserved Individuals for Treatment and Support**

*NU2GGH002123, Oct. 2018 – Sept. 2023*



**Provinces:** Lusaka, Southern, Western, Eastern

Sustainable  
HIV  
Epidemic  
Control

## Core Strategies

- KPIF (Key Populations)
- Priority Populations
- DREAMS Initiative
- Faith & Community Initiative
- Incarcerated Persons
- COVID-19 Vaccination



# Year 1 2018-2019

## Achievements

- Targets achieved: >100%
- Leader in index testing
- Presented on index testing at IAS 2019

Provinces	Districts (12)	Programmatic Focus
Eastern, Western, Lusaka	Mongu, Limulunga, Kalabo, Kaoma, Senanga, Petauke, Lundazi, Chipata, Chasefu, Kasenengwa, Lumezi, Lusaka	<p><b>Priority Populations</b> AGYW, ABYM, Men, Children, PBFW</p> <p><b>Key Populations</b> FSW, MSM, TG, PWID, Prisoners</p>



# Year 2 2019-2020

## Achievements

- Targets achieved: >100%
- Continued success in index testing
- *JIAS* paper on reaching men via index testing
- Helped close the gap to first 90
- Leader in PrEP implementation

Provinces	Districts (12)	Programmatic Focus
Eastern, Western, Lusaka	Mongu, Limulunga, Kalabo, Kaoma, Senanga, Petauke, Lundazi, Chipata, Chasefu, Kasenengwa, Lumezi, Lusaka	<b>Priority Populations</b> <b>Key Populations</b>







# Year 3 2020-2021

## Achievements

- Targets achieved: >100%
- First CDC implementation of DREAMS in Zambia
- Leader in implementation of PrEP in DREAMS & Prisons

Provinces	Districts (12)	Programmatic Focus
Eastern, Western, Lusaka	Mongu, Limulunga, Kalabo, Kaoma, Senanga, Petauke, Lundazi, Chipata, Chasefu, Kasenengwa, Lumezi, Lusaka	<ul style="list-style-type: none"> <li>• Priority Populations</li> <li>• Key Populations</li> <li>• DREAMS</li> <li>• FCI</li> <li>• COVID-19 Vaccination</li> </ul>



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**ECR**  
Expanded Church Response  
Touching More Lives More Deeply



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# Year 4

## 2021-2022

### Achievements

- Targets achieved: >100%
- Integration of Z-CHECK geographic and technical scope of work
- Scale-up of KPIF model for KP services
- *JIAS* paper on reaching TG in Zambia

Provinces	Districts (12)	Programmatic Focus
Eastern, Western, Southern	Mongu, Kalabo, Kaoma, Senanga, Petauke, Lundazi, Chipata, Sesheke, Sioma, Nalolo, Sikongo, Nkeyema, Mazabuka, Monze, Choma, Kalomo & Livingstone	<ul style="list-style-type: none"> <li>• Priority Populations</li> <li>• Key Populations</li> <li>• DREAMS</li> <li>• FCI</li> <li>• COVID-19 Vaccination</li> <li>• TA Corrections</li> </ul>





# Year 5

## 2022-2023

### Achievements

Provinces	Districts (12)	Programmatic Focus
Eastern, Western, Southern	Mongu, Kalabo, Kaoma, Senanga, Petauke, Lundazi, Chipata, Sesheke, Sioma, Nalolo, Sikongo, Nkeyema, Mazabuka, Monze, Choma, Kalomo & Livingstone	<ul style="list-style-type: none"> <li>• <b>Priority Populations</b></li> <li>• <b>Key Populations</b></li> <li>• <b>DREAMS</b></li> <li>• <b>COVID-19 Vaccination</b></li> <li>• <b>TA Corrections</b></li> </ul>

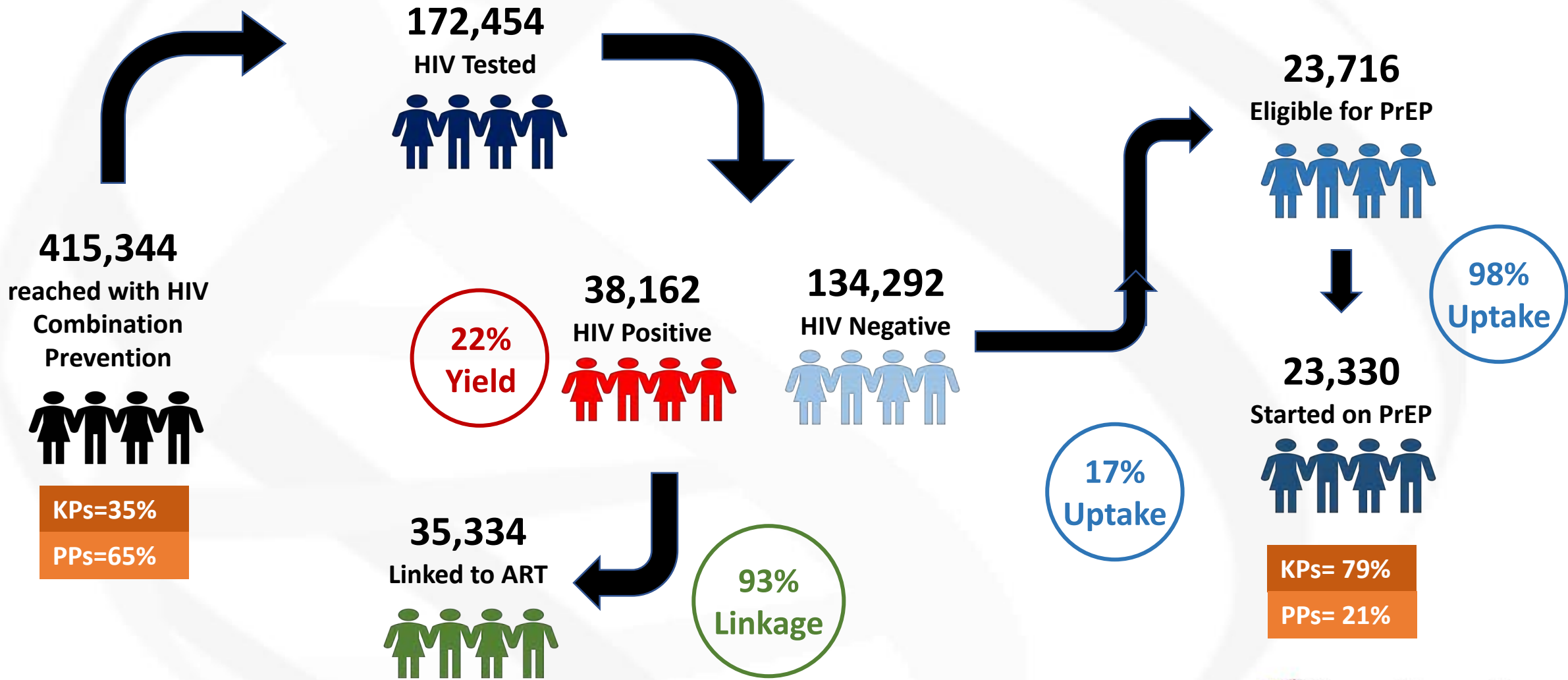
- Targets achieved: >100%
- Integration of maternal & COVID Vax services in KP safe spaces & DREAMS
- DREAMS Evaluation
- *Lancet HIV* paper on PrEP in Prisons
- *AIDS Ed & Prev* paper on PrEP in DREAMS



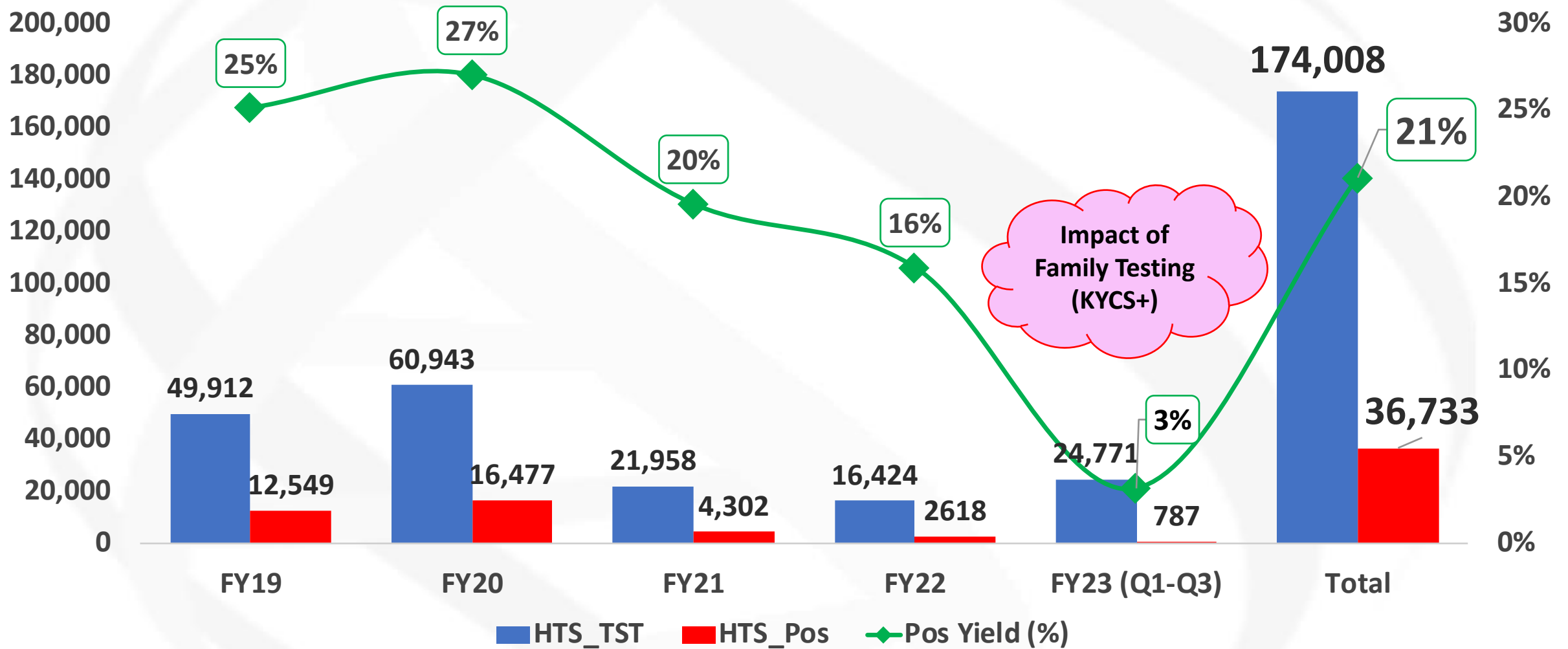
# CIRKUIITS Program Achievements



# Overall Summary Results by Pop. Type (FY19 – FY23) *Excl. DREAMS*

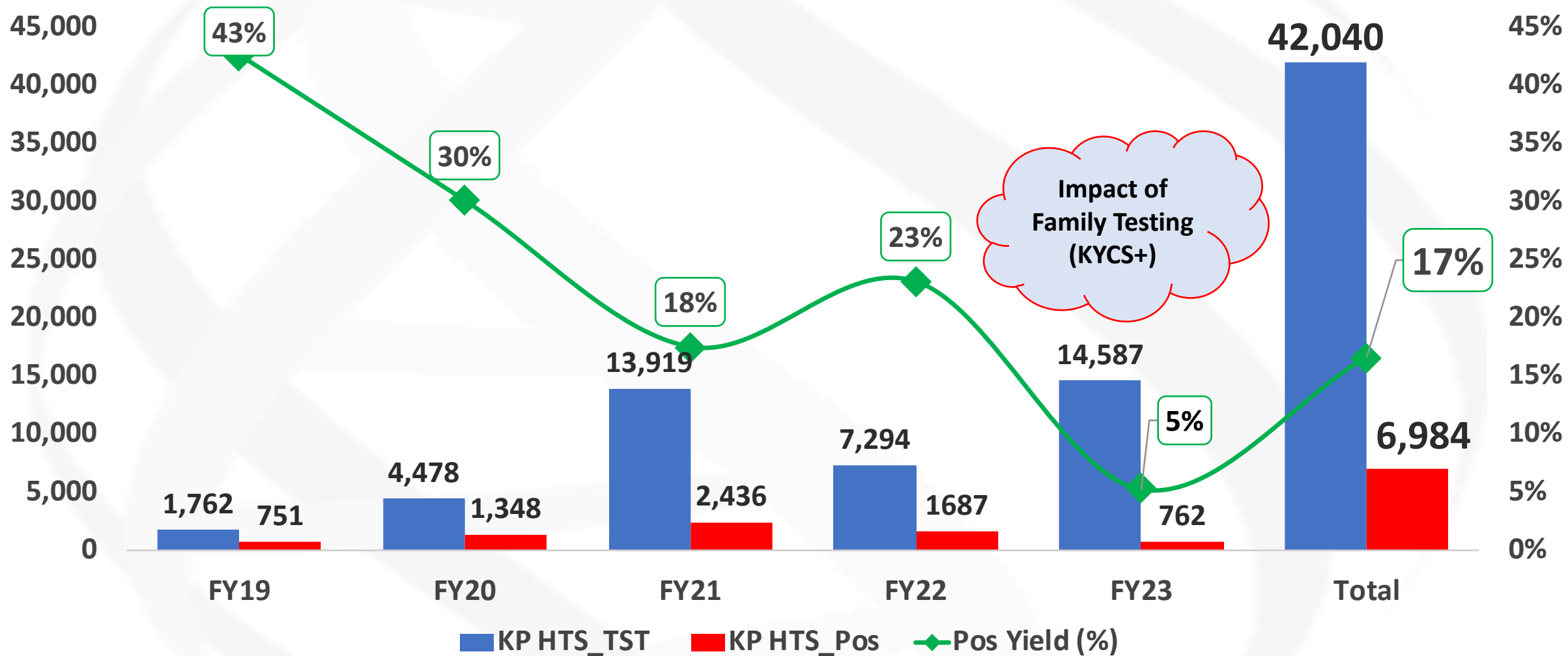


# Overall HIV Testing Profile (FY19 – FY23)



\*DATIM data

# HIV Testing Profile among KPs (FY19 – FY23)



# KPIF Portfolio



- KP Service Coverage
- 2- Years Data Story
- KP Mental Health
- KP & ANC/PMTCT Linkage



# CIRKUIITS KPIF Portfolio Coverage

Provinces	Districts	CDC-supported Wellness Centres	Type of Sites	# of KP Hotspots covered	Estimated KP Size being supported	Estimated KP Coverage with HIV Messages
All Province, Districts and KPIF Safe Spaces			KPIF	<b>79</b> SP=37 EP=16 WP=26	<b>28,338</b> FSW = 15,314 MSM= 7,171 PWID= 4,231 TGs= 1,622	<b>65%</b> FSW = 62% MSM= 95% PWID= 32% TGs= 55%

## Southern (TLI)

1. Mazabuka
2. Monze
3. Choma
4. Kalomo
5. Livingstone

## Western (TBZ)

1. Mongu
2. Kalabo
3. Kaoma
4. Senanga

## Eastern (UCCZ)

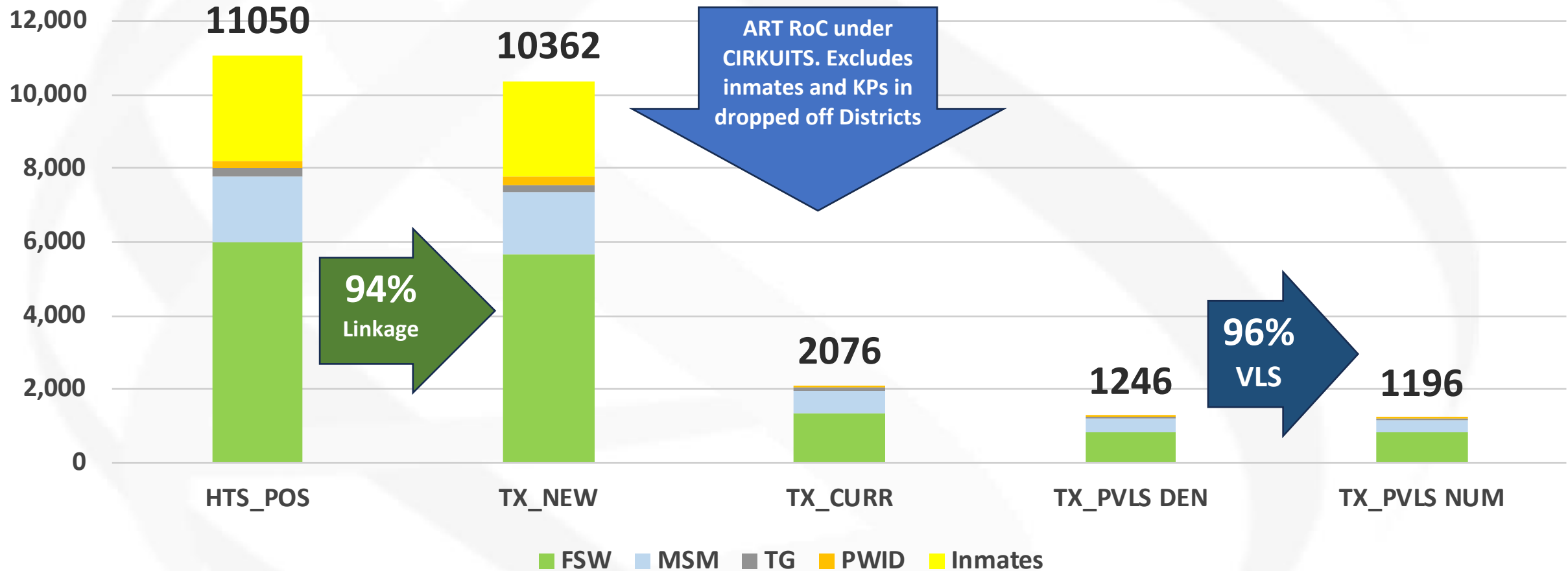
1. Chipata
2. Lundazi
3. Petauke

# Range of Interventions provided at KPIF Wellness Centres

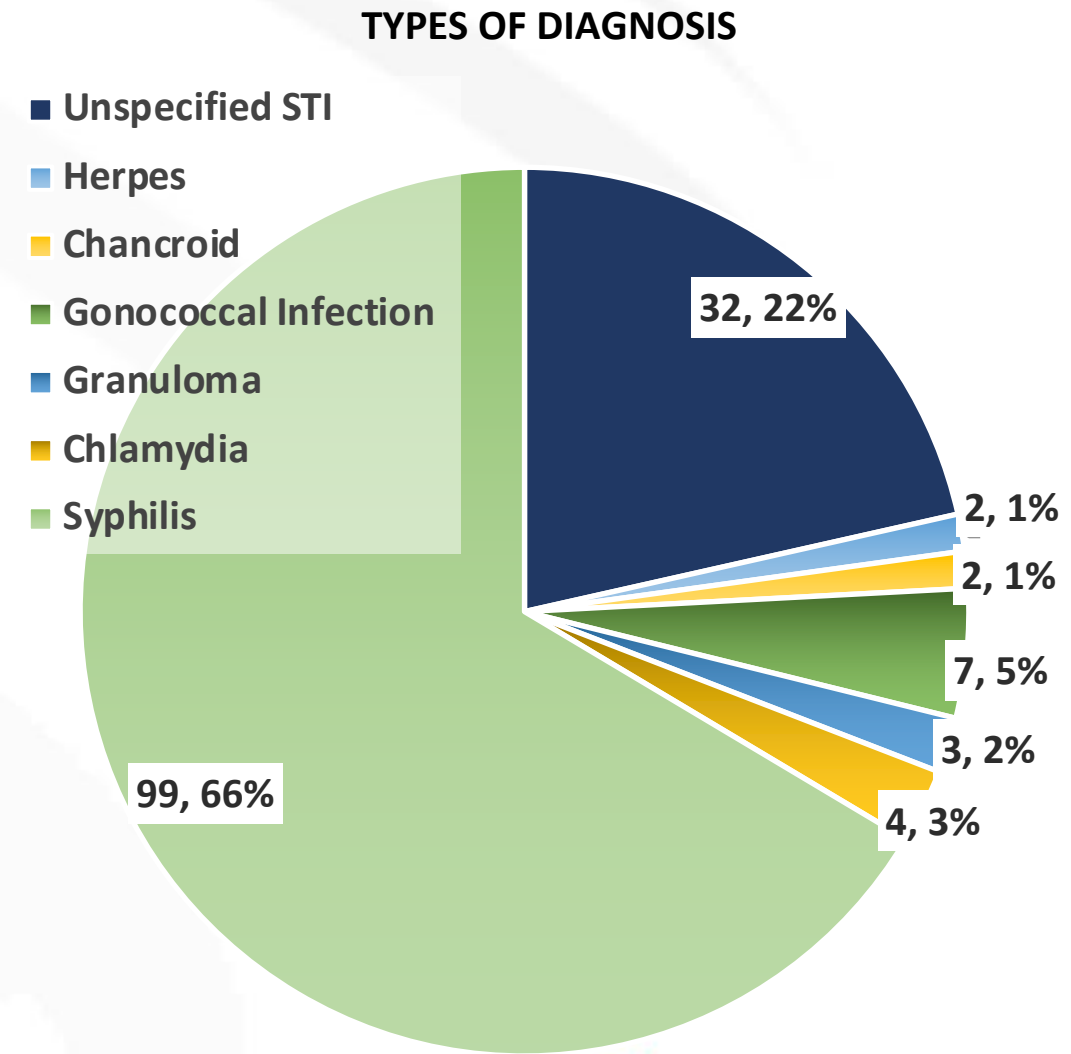
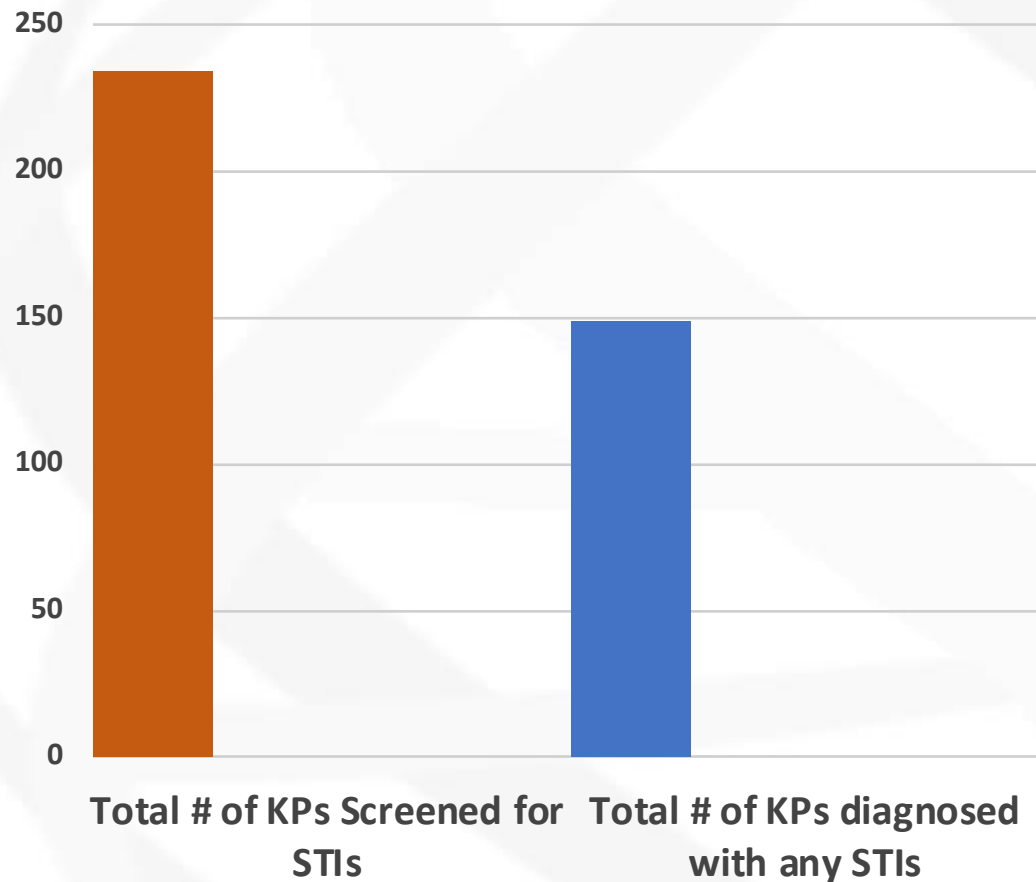
- Comprehensive HIV Prevention, Care and Treatment for KPs
  - HIV combination prevention
  - Status Neutral HIV testing approach
  - SNS testing
  - Linkage to HIV prevention
  - Community-based same day initiation on PrEP and ART
  - Longitudinal tracking and monitoring of KPs on ART and PrEP
- Routine STI Screening, diagnosis and treatment
- Mental Health Services
- COVID-19 Vaccination
- MNCH & ANC Services
- Linkage of children of the KPs to OVC programs



# Key Populations HIV Treatment Cascade (2018 -2023)



# STIs screening and diagnosis amongst KPs (FY23)



# KPs Mental Health (FY23)

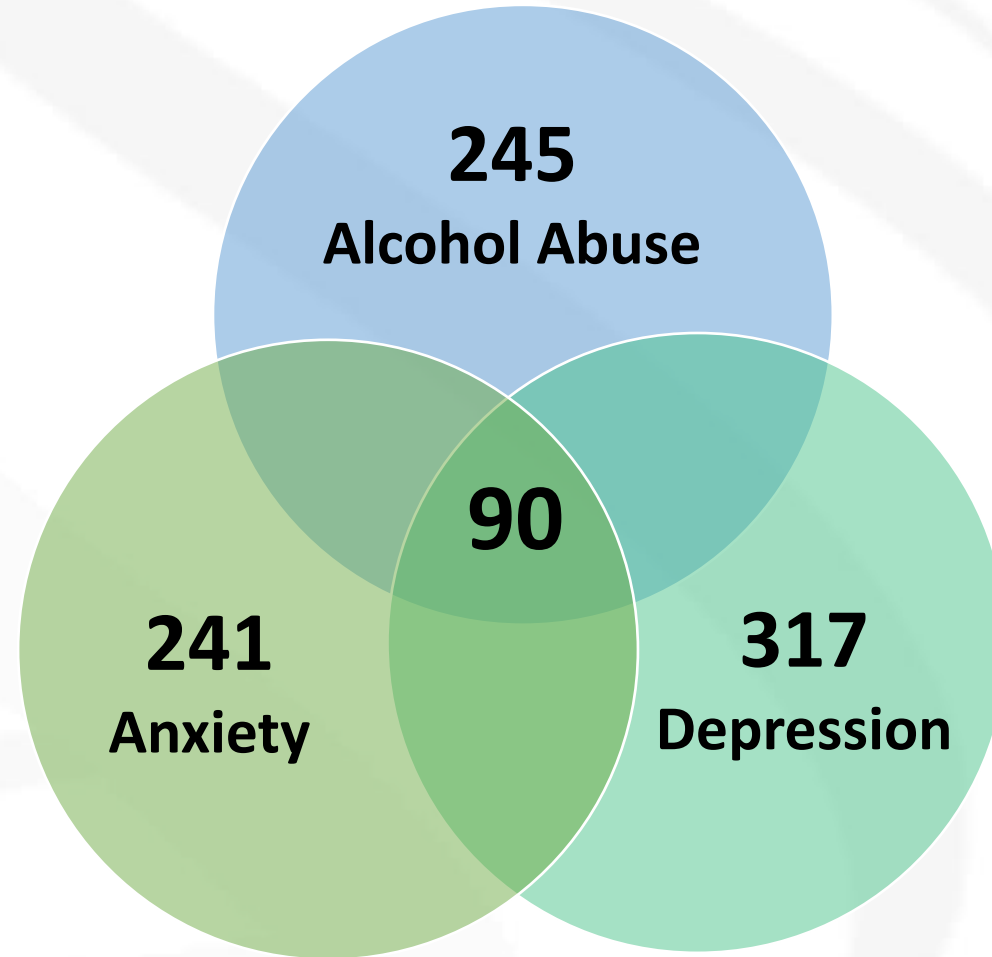
**401 KPs  
screened for  
Mental Health**

## Screening Tools

GAD-7 Anxiety

PHQ-9 Depression

CAGE Alcohol Abuse



# KP Mother & Newborn Child Health Service Integration (Oct 22 – Aug 23)

**152** pregnant KPs received antenatal services in KP safe spaces  
→ Including ANC, HTS, and STI screening

**270** children of KPs received Under 5 Clinic services in KP safe spaces  
→ 180 (67%) children of KPs received immunization at safe spaces



# DREAMS Portfolio



- **AGYW Coverage in DREAMS SNUs**
- **3 Years Data Story**
- **AGYW Mental Health**
- **AGYW & ANC/PMTCT Linkage**

# Project's DREAMS' Portfolio Coverage (as of Sept. 23)

Provinces	Districts	CDC-supported DREAMS Centres	Type of Sites	Estimated AGYW Size being supported (10-29years)	AGYW (10-29yrs) Population registered by CIRKUIITS	Estimated AGYW Coverage with DREAMS Core packages
<b>3 Provinces</b> <b>3 Districts</b> <b>6 DREAMS Centres</b>			<b>DREAMS Safe Spaces linked to HFs</b>	<b>153,178</b> Mazabuka= 64,801 Monze = 55,482 Mongu = 32,895	<b>94,001</b> Mazabuka= 33,203 Monze = 34,715 Mongu = 26,083	<b>61%</b> Mazabuka= 51% Monze = 63% Mongu = 79%

**Southern**  
 1. Mazabuka  
 2. Monze

**Western**  
 1. Mongu

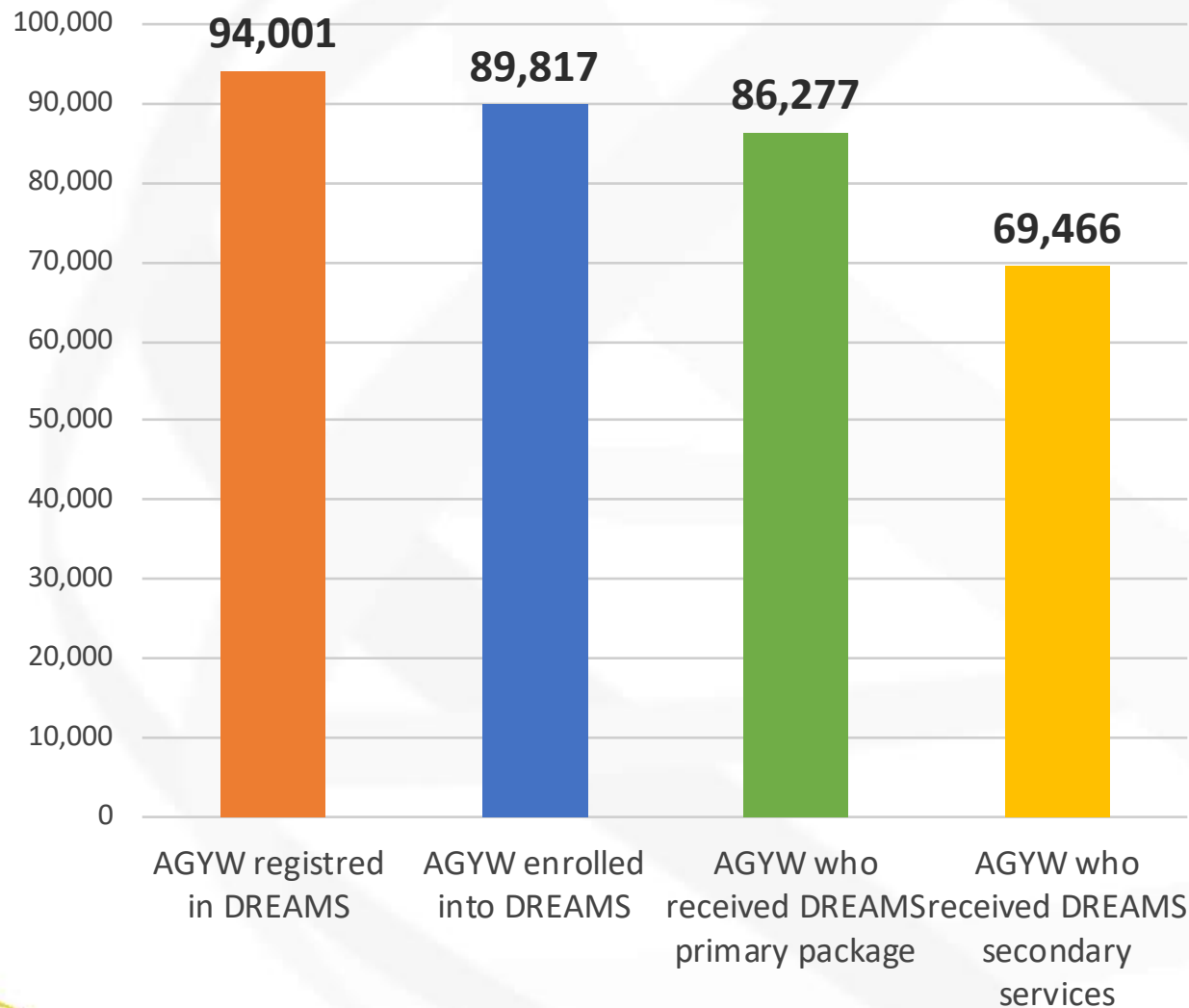
**Eastern**  
 1. Chipata - as PrEP Layering partner for 2 years

## UMB CIRKUIITS DREAMS Partners:

- PHOs (Leadership and Coordination)
- Ciheb Zambia, ECR, YWCA, and BRAC

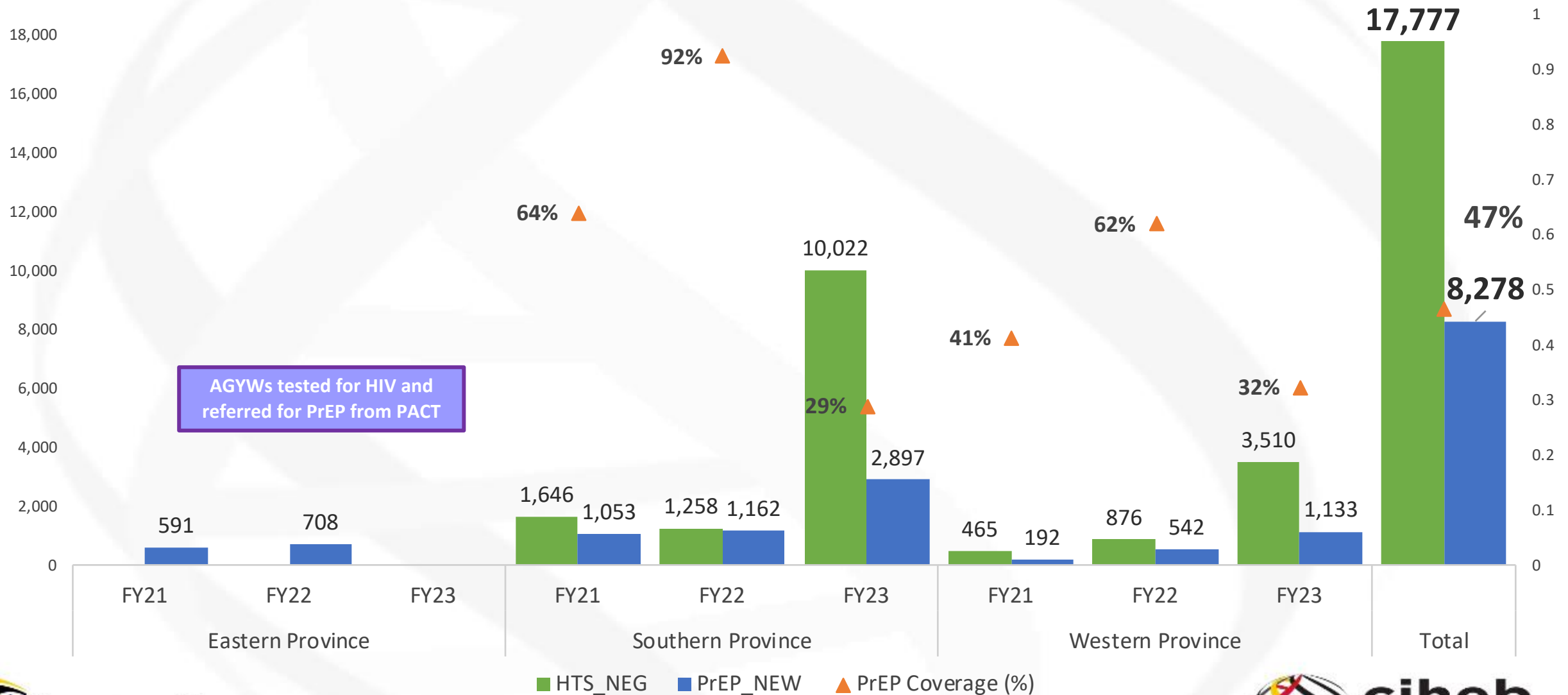


# UMB-CIRKUIT'S 3-Year DREAMS Data Story

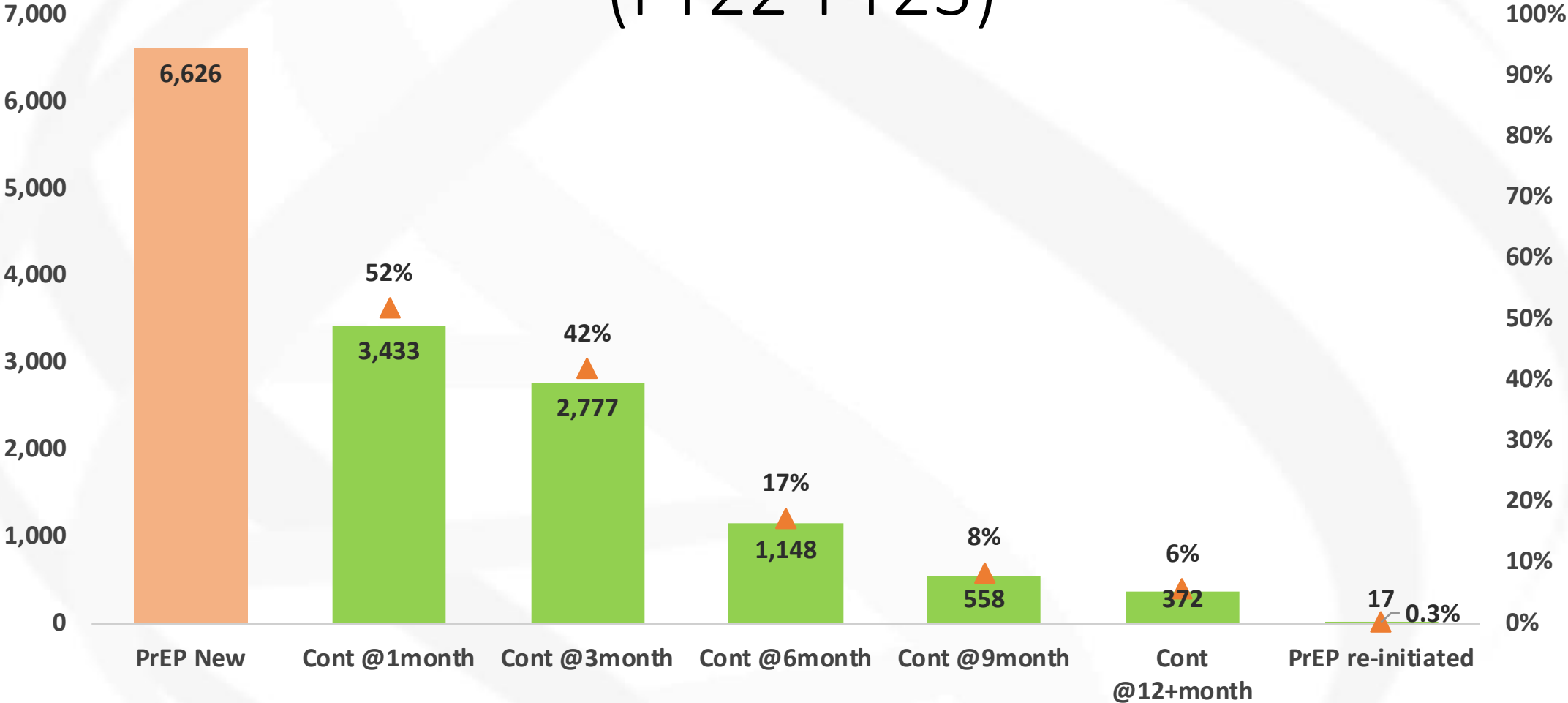


Secondary Services	Number	Pct
Parenting Program	31,091	45%
Savings Group	26,440	38%
Condom Promotion & Provision	24,092	35%
Education Support	19,697	28%
HIV testing	17,520	25%
Comprehensive Economic Strengthening	13,501	19%
Financial Literacy	13,320	19%
Contraceptive Mix	12,561	18%
PrEP	7,094	10%
Mental Health	1,259	1.80%
Post Violence Care (SGBV)	233	0.30%

# DREAMS HTS and PrEP\_NEW trend (2021 – 2023)

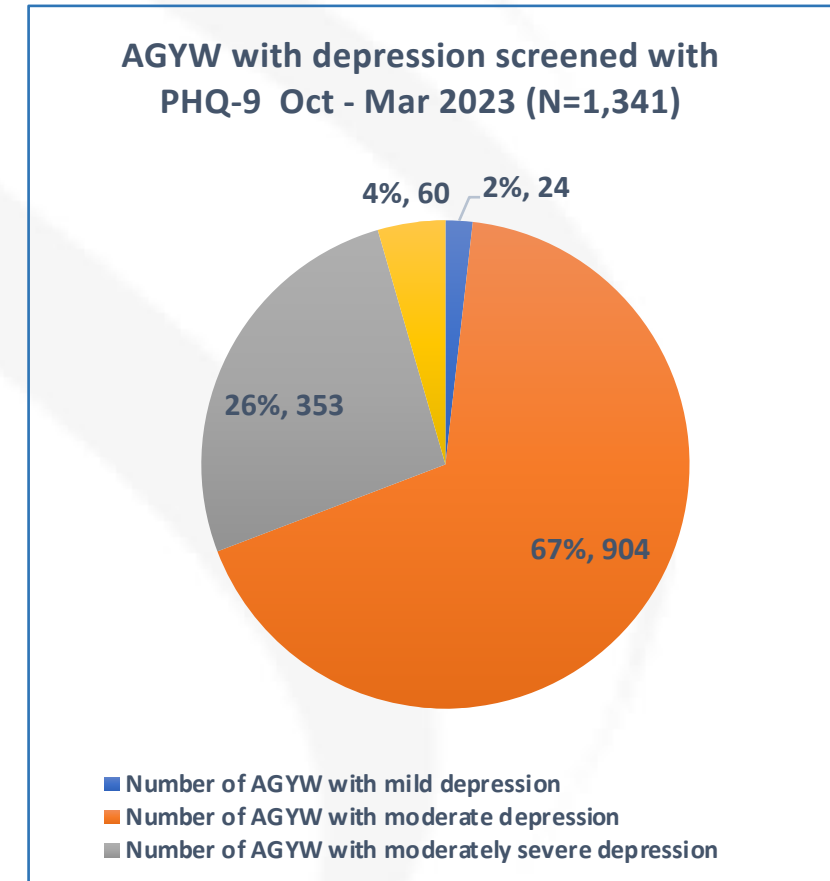
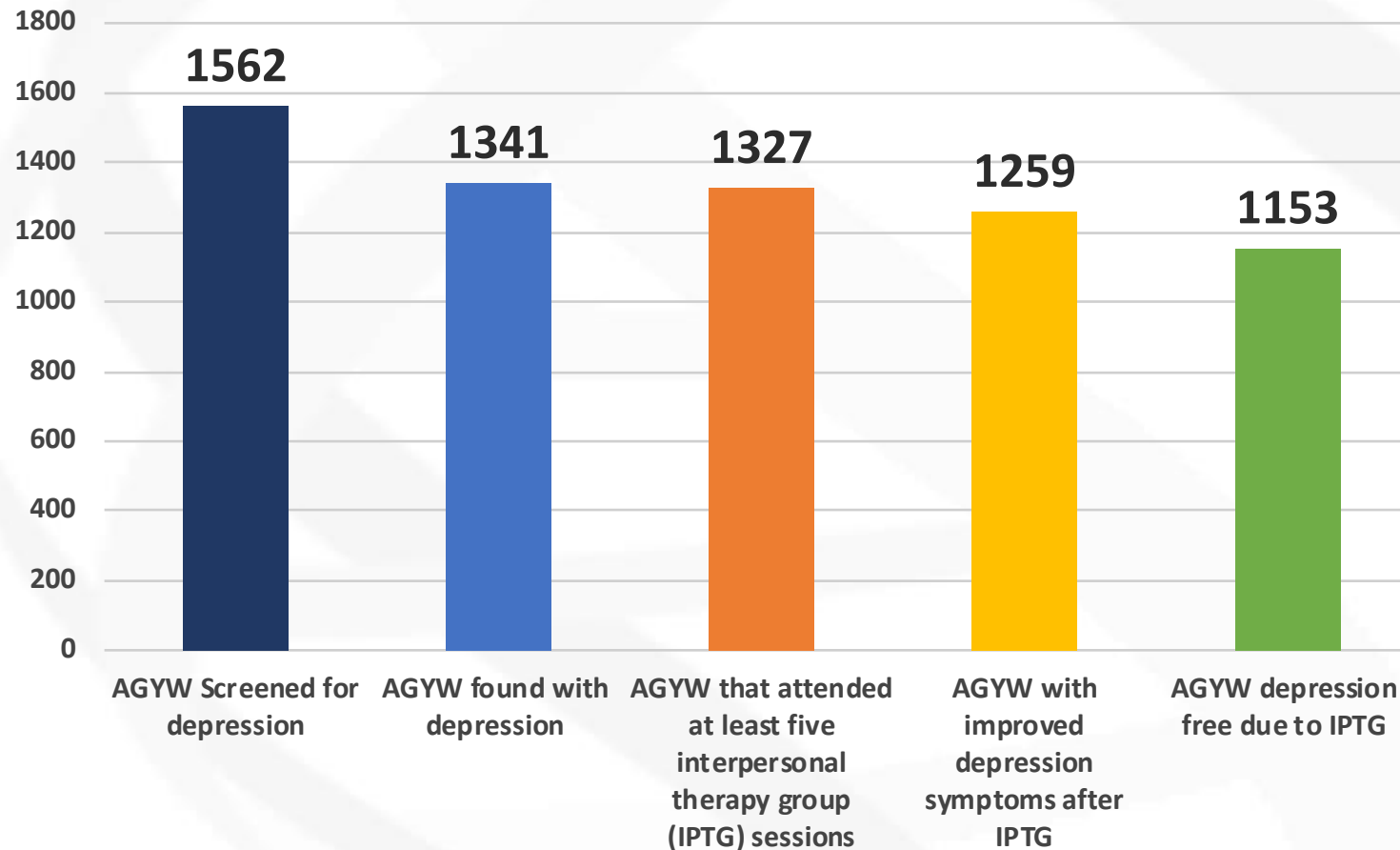


# Overall DREAMS PrEP Continuation Cascade (FY22-FY23)



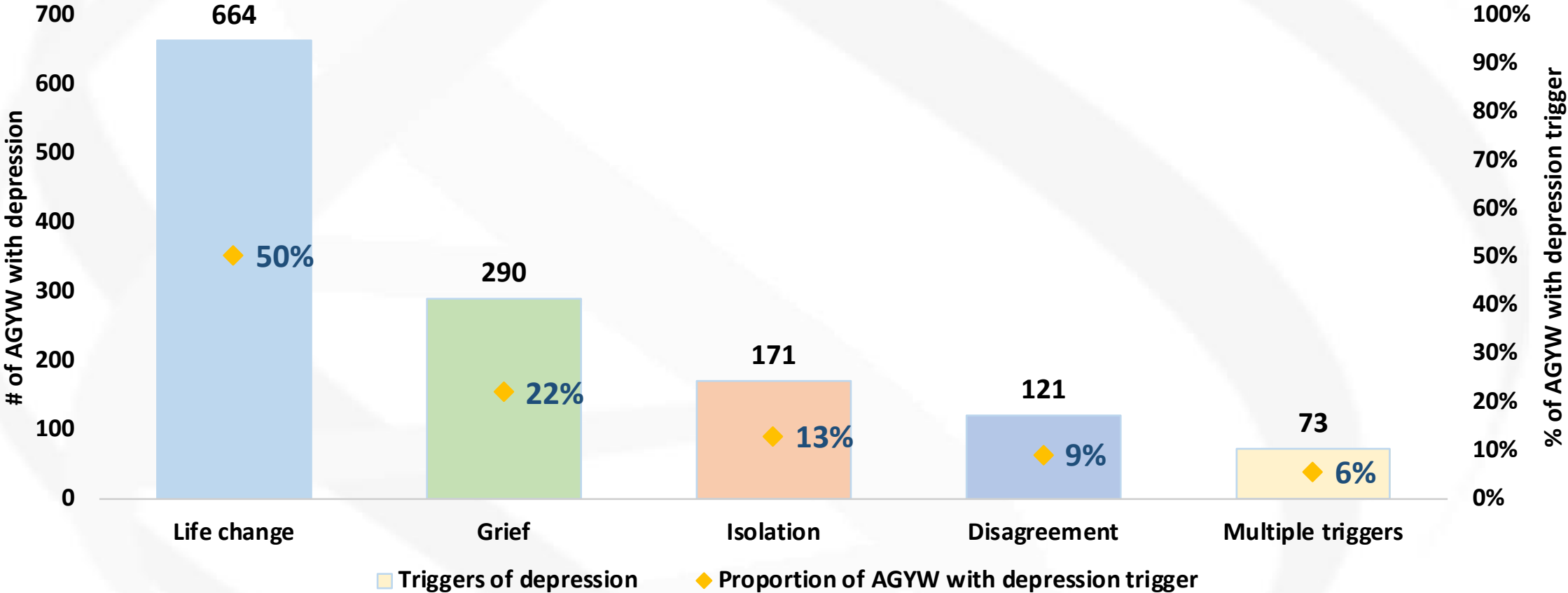
# AGYW Mental Health (FY23) - IPTG Session Outcomes

## Mental Health Screening, Treatment and Outcome Cascade for DREAMS AGYW



# AGYW Mental Health (FY23) - Triggers of Depression

Wave 1 & 2 (Oct 22 - Mar 23; N=1,319)



# DREAMS Successes

- Established 6 DREAMS Centres
- Scaled up 6 DREAMS Community Posts
  - Mazabuka: Chivuna & Lubombo
  - Monze: Nadongo & Mapeyo
  - Mongu: Nalwei & Sefula
- Offering COVID 19 Vaccination at DREAMS Centers
- Trained DREAMS teams in Mental Health and PMTCT
- Graduated >90% of the AGYW
- Completed DREAMS Evaluation



Social Assesst Building Session

# FCI Portfolio



- FCI Activity Summary
- 1- Year FCI Data Story
- Priority Pop. HTS and PrEP Summary
- Priority Pop. Linkage to ART

# Faith & Community Initiative

## Goal

To reaching men/boys and children with new 'Messages of Hope' through faith-based platforms by encouraging them to get tested for HIV and know their HIV status



### EASTERN

Petauke = 7  
Chipata = 10  
Lundazi = 3

### SOUTHERN

Livingstone = 8  
Choma = 14  
Monze = 9  
Mazabuka = 13

### WESTERN

Mongu = 8

**Total = 62 Sites**



# FCI Core Achievements

1. Mechanisms for improving coordination of Inter-Faith community was activated and strengthened.
2. **Trained 607** Faith leaders on HIV and messages of hope
3. **Four** Community-based Monitoring and Evaluation Workshops in with Faith leaders.
4. Trained **699** adolescent girls in GBV prevention
5. Ten (**10**) Radio Series on Messages of Hope conducted
6. Reached out to **2,075** males aged 20-24 with PP\_PREV messages
7. Followed-up **1955** clients who missed appointments and re-engaged them into care
8. Strengthened **28** adolescent community ART support groups.
9. Reached out to **473** people with Messages of Hope



# COVID-19 Vaccination

Health System	CIRKUIITS
Service Delivery	<ul style="list-style-type: none"><li>• COVID-19 vaccination integrated into <b>13 KPIF districts &amp; 10 DREAMS Centres</b></li></ul>
Healthcare Workforce	<ul style="list-style-type: none"><li>• <b>1005 HCWs</b> trained in COVAX management and AEFI</li><li>• <b>73 DREAMS staff</b> trained in COVAX mgt and and data</li></ul>
Information	<ul style="list-style-type: none"><li>• <b>136 DEC</b>s trained in COVAX DHIS2</li><li>• <b>24 DHO</b>s supported for COVAX data entry</li><li>• <b>103 HCWs and KPIF staff</b> trained in COVAX management and COVAX DHIS2</li></ul>



# COVID-19 Vaccination

Health System	CIRKUIITS
<b>Medical Products, Vaccines and Technologies</b>	<p>Procured and supplied items for COVID-19 infection prevention to supplement PHO efforts.</p> <ul style="list-style-type: none"><li>• 14 Cold Boxes</li><li>• 14 Vaccine Carriers</li><li>• 28 Vaccine monitoring thermometers</li><li>• 2500 Face Masks</li></ul>
<b>Financing</b>	<ul style="list-style-type: none"><li>• <b>722 vaccinators, 536 community mobilizers, and 136 DEC</b>s supported during outreach activities</li></ul>
<b>Leadership &amp; Governance</b>	<ul style="list-style-type: none"><li>• Engaged <b>340 influential leaders</b> to support effective COVID-19 ACSM activities</li></ul>



# COVID-19 Vaccination



**152,883**

people vaccinated  
against COVID-19 in  
Lusaka, Eastern, Southern  
and Western Province

# Technical Innovations

- eCOMMIS Line-Listed Data
- National DREAMS Data Depository

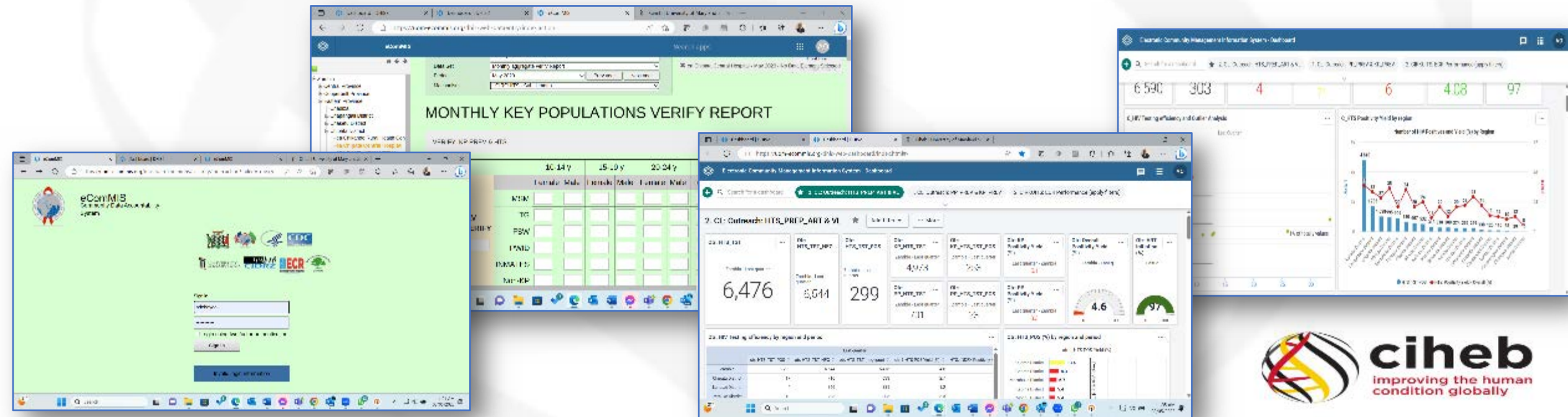


Reviewing Daily Activity Registers for commodity monitoring

# eComMIS for tracking KPs and AGYW in DREAMS

## Longitudinal Patient-centred Monitoring and Information Management Systems

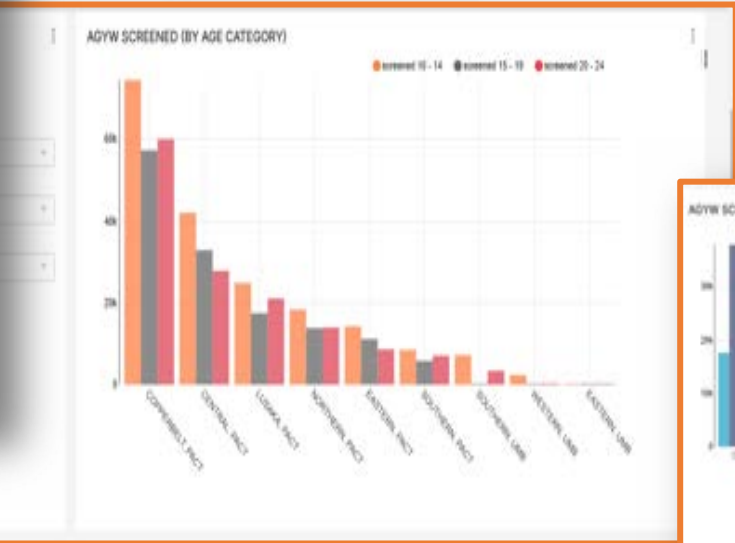
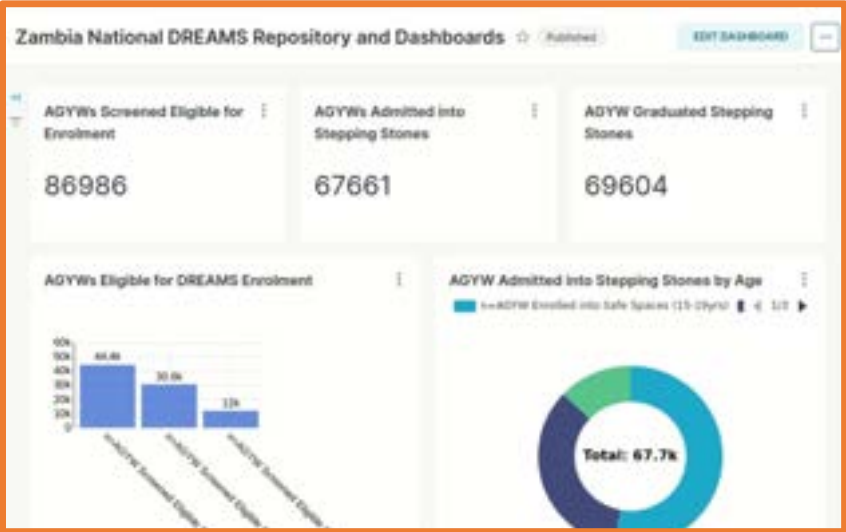
1. Establishment of a longitudinal tracking system that supports over **26,237 unduplicated KPs and 90,000+ unduplicated AGYW in DREAMS.**
2. Use of **Unique Identification Codes** to track clients in an utmost confidential manner.
3. Data can be disaggregated by KP types and report on PEPFAR MER and Non-MER indicators.
4. Real time synchronization of client-level data between National EMR and eComMIS Tracker.



# Zambia National DREAMS Data Repository and Dashboard transition to MOH Digital Health.

An enterprise application developed in collaboration between the USG DREAMS Implementing partners in Zambia with the sole aim of:

- ❑ bringing aggregated DREAMS data into one basket for both OGAC reporting and national level decision making.
- ❑ creating more visibility for DREAMS data
- ❑ contribution to MoH data priorities for Adolescent Health program



# Health Policy Initiatives

- HIV Pre-Exposure Prophylaxis
- PWID Harm Reduction Policy

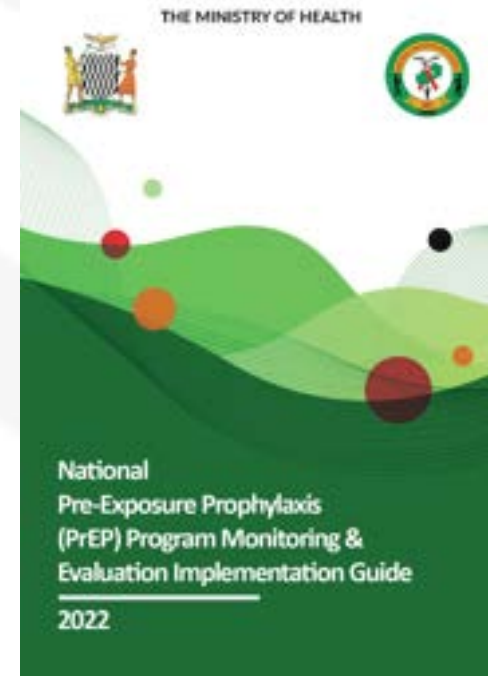


Hon. Minister of Health Launching the PrEP M&E Framework, 2022



# Health Policy Initiatives

- MOH PrEP TWG
  - CAB LA Guidelines Development
  - edPrEP Guidelines Development
  - Launch of PrEP M&E Framework
  - Revision of PrEP Implementation Framework
- PWID Harm Reduction
  - PWID TWG & Health Policy
  - Tanzania & Kenya MAT Learning Tour
  - MAT Clinic NOA: UTH & KTH



# PWID & MAT/Rehabilitation Services

**2018** Identified PWID offered HTS

**2019** Scaled up PWID services to other districts

**2020** Initiated discussion with NAC and DEC on formation of a PWID TWG

**2021** Formed the PWID TWG & developed TOR for the group

**2022** Developed concept note for the learning tour to a country with developed PWID harm reduction programs

**2023** CDC facilitated learning tour to Tanzania & Kenya MAT Clinics

Finalized and submitted to MOH via NAC the MAT policy brief for people who use/inject drugs



UMB supported the First PWID TWG Meeting 24/03/21

- Ministry of Health
- National AIDS/HIV Council
- Ministry on Home Affairs & Internal Security
- KP-CSO
- Private health facilities
- Implementing Partners

# Sustainability: Training & Capacity Building

- Health Care Worker Training
- KP Civil Society Organization  
Capacity Building



# Number of Individuals Trained under CIRKUIITS

Type of Training	EP, SP, WP, LP
Priority Population Program	428
Key Population Program	3952
HIV Service Delivery Training	1989
Quality Control and Certifications	372
Strategic Information, M&E, and Data Management	248
Grants, Financial and Program Management	12
<b>TOTAL</b>	<b>7,001</b>



DREAMS school support beneficiaries currently enrolled in medical school

# KPCSO Capacity Strengthening Focus Domains

Governance &  
Leadership

Financial  
Management,  
Accounting, &  
Administration

Program & Grant  
Management

Technical Service  
Delivery

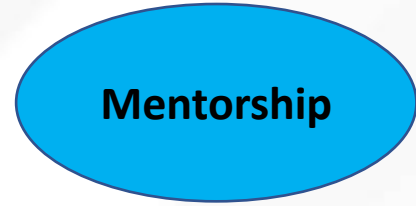
Monitoring &  
Evaluation,  
Strategic  
Information

Sustainability

# Interventions



Award Management, Business Operations and Compliance; SI/Monitoring & Evaluation and CQI approach, Service Delivery Trainings (HTS, SNS, PrEP, STIs, Mental Health, COVID-19, MNCH, etc.)



SI/M&E/DQA & CQI, Financial Management, HR, Procurement, Administration, Program Management, Grants & Contracts Management



Financial Management, HR, Procurement, Data Review, Data Cleaning and MER Reporting, Technical Implementation and Presentation

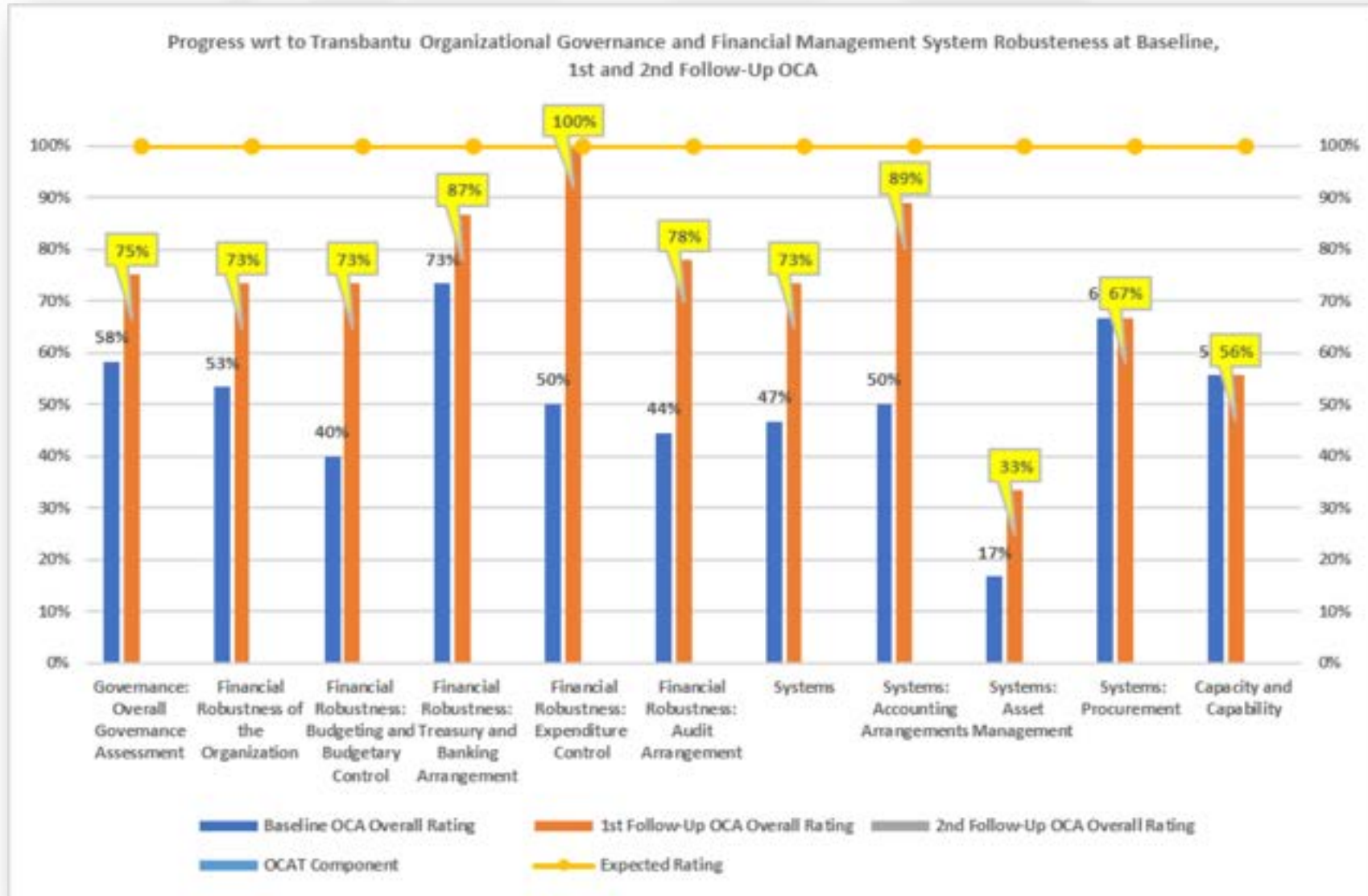


Technical Supportive Supervision (TSS), Problem Solving, Data Review and External Data Quality Assessment (DQA), Technical Documentation



Strategic Planning, Program Performance Review, Planning and Budgeting and more.

# Outcomes of KPCSOs Capacity Strengthening



Increased capacity in proposal writing: competitively bidding for new USG funds & grants

Increased compliance to donors' funding and operational requirements

# Sustainability: Infrastructure

- DREAMS Centers
- DREAMS Community Posts
- National Forensic Laboratory
- Youth Friendly Spaces





# Prefabricated DREAMS Centres

6 Prefabs located in

- Monze - 2
- Mazabuka – 2
- Mongu – 2

Complete with

- Furniture
- Water
- Electricity



# Official Opening of Mulumbwa DREAMS Centre in Monze District by Chief Monze, Monze District, SP



Reception Area



Economic Strengthening Room



Kitchen



Site Coordinators Office



Health Services Room



# Scientific Contributions

- Conference Abstracts: 40
- Scientific Manuscripts: 9
- NIH Research Grants: 3
- DREAMS Evaluation



# Conference Abstracts: 40



# PEPFAR Bilateral Exchange at AIDS 2022








**Insights and innovations from Global and U.S. domestic efforts to reach and sustain HIV epidemic control**  
*AIDS 2022 Conference, Montreal, Canada.*

# CIRKUIITS Publications: Reaching KP/PP

## RESEARCH ARTICLE



### Index and targeted community-based testing to optimize HIV case finding and ART linkage among men in Zambia

Linah K Mwangi<sup>1\*</sup>, Kristen A Stafford<sup>2,3,4\*</sup> , Natalia C Blanco<sup>2,3</sup> , Marie-Claude Lavoie<sup>2,3</sup> , Morley Mujansi<sup>1</sup>, Nasho Nyirongo<sup>1</sup>, Kalima Tembo<sup>1</sup>, Henry Sakala<sup>1</sup>, Julian Chipukuma<sup>1</sup>, Beauty Phiri<sup>1</sup>, Carol Nzangwa<sup>1</sup>, Susan Mwandila<sup>1</sup>, Kennedy C Nkwemu<sup>5</sup>, Ahmed Saadani<sup>5</sup>, Annie Mwila<sup>5</sup>, Michael E Herce<sup>6,7</sup>  and Cassidy W Claassen<sup>1,2,3,6</sup> 







#### Index Testing:

- 45% positivity yield
- 40% among men

## RESEARCH ARTICLE



### Reaching transgender populations in Zambia for HIV prevention and linkage to treatment using community-based service delivery

Linah Mwangi<sup>1,\*</sup>, Mona-Gekanju Toeque<sup>2,3,\*</sup> , Brianna Lindsay<sup>2,3</sup> , Kalima Tembo<sup>2</sup>, Henry Sakala<sup>2</sup>, Sean Reggee<sup>4</sup>, Sibusiso Mimi Malunga<sup>5</sup>, McLean Kabwe<sup>5</sup>, Ina Kafunda<sup>2</sup>, Adebayo Olufunso<sup>2</sup>, Annie Mwila<sup>6</sup>, Jackson Okuku<sup>6</sup>, Nzali Kancheya<sup>6</sup>, Kennedy Nkwemu<sup>6</sup>, Daliso Mumba<sup>7</sup>, Lottie Hachaambwa<sup>1,3</sup>, Robb Sheneberger<sup>2,3</sup>, Natalia Blanco<sup>3</sup> , Marie-Claude Lavoie<sup>3</sup> , Kristen A. Stafford<sup>3</sup>  and Cassidy W. Claassen<sup>2,3,8</sup> 

#### CHWs to reach TG:

- 1,860 TG reached
- 18% positivity
- 97% ART linkage
- 268 initiated on PrEP

## RESEARCH ARTICLE



### Peer community health workers improve HIV testing and ART linkage among key populations in Zambia: retrospective observational results from the Z-CHECK project, 2019–2020

Brianna R. Lindsay<sup>1,2,8,\*</sup> , Linah Mwangi<sup>3,\*</sup> , Mona-Gekanju Toeque<sup>2</sup> , Sipiwe Lucy Malupande<sup>3</sup>, Elizabeth Nkhuwa<sup>3</sup>, Clement Nchimunya Moonga<sup>4</sup>, Andrew Chilambe<sup>3</sup>, Henry Sakala<sup>1</sup>, Ina Kafunda<sup>1</sup>, Pawel Olowski<sup>1</sup>, Adebayo Olufunso<sup>1</sup>, Jackson Okuku<sup>5</sup>, Nzali Kancheya<sup>5</sup>, Daliso Mumba<sup>6</sup>, Lottie Hachaambwa<sup>2,3</sup>, Robb Sheneberger<sup>1,2</sup>, Natalia Blanco<sup>2</sup> , Marie-Claude Lavoie<sup>2</sup>  and Cassidy W. Claassen<sup>1,2</sup> 

#### CHWs to reach KPs:

- 9,211 MSM, FSW, PWID, prisoners reached
- 24% positivity
- 85% ART linkage

# CIRKUIITS Publications: HIV Prevention

## BMJ Open Initial implementation of PrEP in Zambia: health policy development and service delivery scale-up

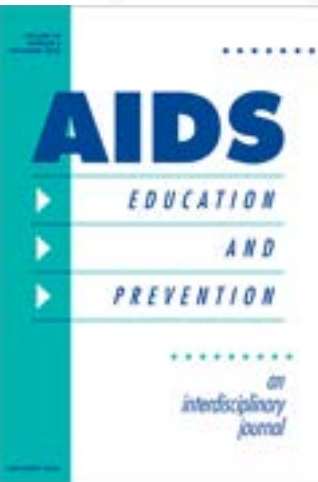
Cassidy W. Claassen<sup>1,2,3</sup>, Daliso Mumba<sup>4,5</sup>, Mwansa Njelesani<sup>6</sup>, Derrick Nyimbili<sup>7</sup>, Linah K Mwango<sup>8</sup>, Mundia Mwitumwa<sup>2,3</sup>, Ellen Mubanga<sup>4</sup>, Lloyd B. Mulenga<sup>2,3,5</sup>, Tina Chisenga<sup>5</sup>, Brooke E. Nichols<sup>9,10</sup>, Cheryl Hendrickson<sup>10</sup>, Lastone Chitembo<sup>11</sup>, Jackson Okuku<sup>12</sup>, Heidi O'Bra<sup>13</sup>

National implementation and scale up of PrEP to >700 health facilities and 27,000 clients in 2 years

## FOSTERING ACCESS TO PREP AMONG ADOLESCENT GIRLS AND YOUNG WOMEN AGED 16 TO 24 YEARS AT HIGH RISK OF HIV THROUGH THE DREAMS INITIATIVE IN FOUR DISTRICTS IN ZAMBIA

Julian Chipukuma, Brianna Lindsay, Linah Mwango, Pawel Olowski, Caitlin Baumhart, Kalima Tembo, Adebayo Olufunso, Christine Bwale, Priscilla Makasa, Monde Muchoka, Salina Tembo, Waitolo Mbokile, Comfort Panda, Sipiwe Malupande, Richard Lubinda, Brenda Bwembelo, Everess Fundulu, Chimpinde Munsongo, Kelvin Watala, Bupe Musonda, Omega Chituwo, Jackson Okuku, Annie Mwila, Carlos Muleya, Pragna Patel, and Cassidy W. Claassen

- Assessed 4,162 HIV-negative AGYW
- 3,233 (77%) at substantial risk & initiated on PrEP
- 68% of AGYW had at least one refill
- Refills differed significantly by age group and district





# Initial implementation of HIV pre-exposure prophylaxis for people who are incarcerated in Zambia: a cross-sectional observational study

Brianna Lindsay, Nasho Nyirongo, Linah Mwangi, Mana Gekanju Toeque, Carol Masumba, James Paul Litongola, James Sikanyika, Henry Kabombo, Martin Moyo, Steven Siachibila, James Mudenda, Kalima Tembo, Pawel Olowski, Adebayo Olufunso, Elizabeth Muchinda, Bupe Musonda, Jackson Okuku, Annie Mwila, Clement N Moonga, Michael E Herce\*, Cassidy W Claassen\*

## First implementation of PrEP in prisons:

- >12,000 inmates screened
- 2,610 tested for HIV
- 14% positivity
- 1,190 initiated on PrEP

## THE LANCET HIV



### Profile

Fundación Huésped—combating HIV stigma in Argentina  
See page 13

### Articles

Immunological and virological findings in a patient with post-treatment control  
See page 42

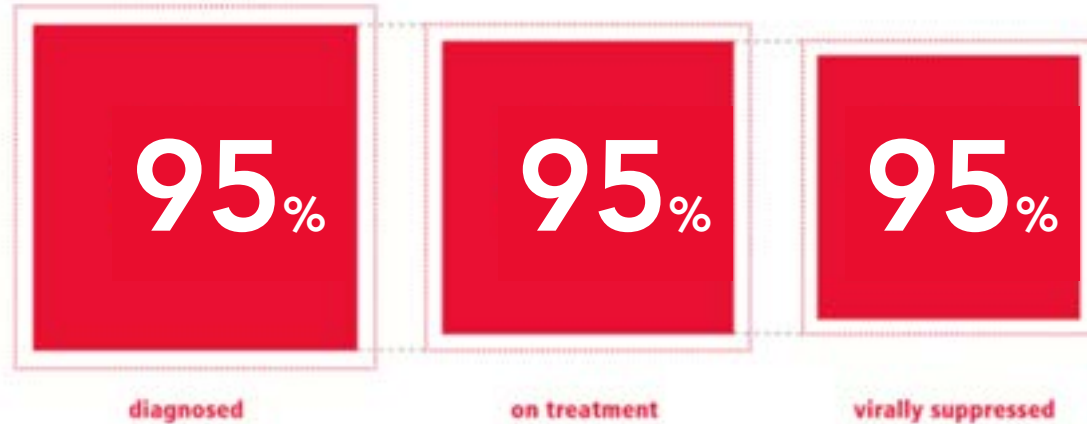
### Review

Global review of the history and harms of HIV criminalisation  
See page 52

# Integrating Research with Implementation

**CDC: CIRKUIITS**

**HIV Epidemic Control**



**Maintaining Treatment Engagement**

*NIH R34:*  
**ReCharge**

**Loss to Follow Up & Mortality**

**HIV Prevention**

*NIH R21:*  
**PreVAIL**

**New Infections**

**Build Implementation Science Capacity**

*NIH D43:* **ZENITH**

# DREAMS Assessment: Overview

- Purpose: To assess the effects of the DREAMS Initiative programs on AGYW in Zambia to inform future implementation and CQI
- Time period: 2017 – 2022
- Methodology: Reach, Effectiveness, Adoption, Implementation, Maintenance (**RE-AIM**)  
Implementation Science Framework



# DREAMS Assessment: Quantitative

Province	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Lusaka	Lusaka	Lusaka	Lusaka	Lusaka	Lusaka	Lusaka**	Lusaka
Copperbelt	Chingola	Chingola	Chingola	Chingola	Chingola	Chingola	Chingola
Copperbelt	Ndola	Ndola	Ndola	Ndola	Ndola	Ndola	Ndola
Copperbelt		Kitwe	Kitwe	Kitwe	Kitwe	Kitwe	Kitwe
Central			Kabwe	Kabwe	Kabwe	Kabwe	Kabwe*
Central			Kapiri Mposhi	Kapiri Mposhi	Kapiri Mposhi	Kapiri Mposhi	Kapiri Mposhi*
Eastern				Chipata	Chipata	Chipata	Chipata*
Southern				Livingstone	Livingstone	Livingstone**	Livingstone
Southern						Mazabuka	Mazabuka
Southern		Key				Monze	Monze
Western		PACT				Mongu	Mongu
Copperbelt		CIDRZ**				Mufulira	Mufulira
Copperbelt		UMB				Luanshya	Luanshya
Northern						Kasama	Kasama*

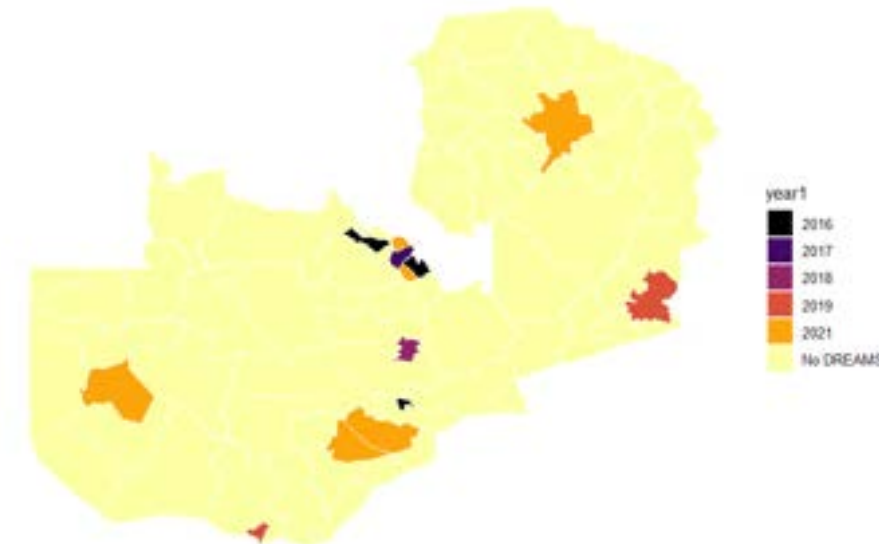
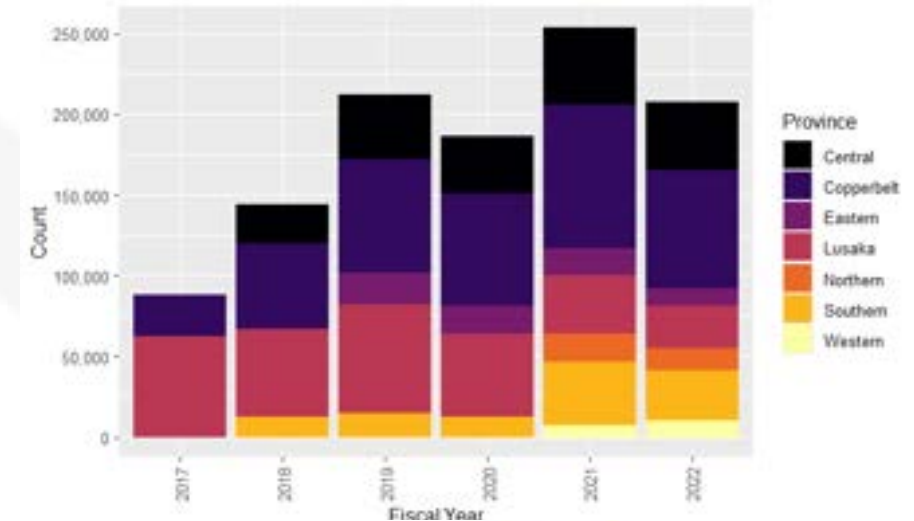
- Line-listed data analysis from all IPs
- 7 Provinces (14 Districts)
- 1,230,347 files received
- 1,091,630 files included
  - 1 Aug '17 – 29 Sept '22
- Sub-analysis of ZAMPHIA
  - Characteristics of AGYW in always, partial, and never DREAMS districts

\* In FY22 JSH only started implementing in Sept 22 (Oct 21-Aug 22 was PACT)

\*\* CIDRZ is also implementing in this PACT district simultaneously

# DREAMS Assessment: Quantitative

- 1,091,630 AGYW screened
- 1,031,878 (94.5%) met at least 1 eligibility criteria
- Primary services: 97.3% completed 13 Stepping-Stones sessions
- Secondary services: 51.8% (565,378) received at least one service
- Most common secondary services:
  - Socioeconomic support (29.6%) and condoms (27.2%)
  - Family planning (11.2%) and HIV testing (9.6%)
- Risk and vulnerabilities reported via HIV risk assessment



# DREAMS Assessment: Qualitative

- In-depth interviews and focus groups

- 121 participants

## Information

- AGYW satisfaction

- Impact on

- Relationships
- Life

- Challenges

- Recruitment

Assessment Objective and Study Population	Method	Per site			Total
		Lusaka	Southern	Copperbelt	
<b>Program implementers</b>					51
District and Site coordinators/ Centre managers	IDI	1	2	2	5
Mentors	FGD	1 (n=7)	1 (n=8)	1(n=6)	3 (n=21)
Mentors	IDI	2	2	2	6
Connectors/Site Mobilization Officers; Secondary package implementers (ES, SBPI, Parenting, Nurses)	IDI	4	6	4	14
Community/Program observations	Observation	1	1	3	5
<b>Key Stakeholders</b>					4
DREAMS Ambassador(CoAG)	IDI				1
Donors and Ministry Officials	IDI				3
<b>AGYW 16-21 years old</b>					66
Non-DREAMS participants	IDI	3	4	4	11
Beneficiaries: Low participation Primary package only OR one service only	IDI	4	3	3	11
Beneficiaries: Mid to high-level participation	IDI	9	7	11	27
Beneficiaries: High-level participation Primary package + 3 or more services	FGD	1 (n=6)	1(n=5)	1(n=6)	3 (n=17)
<b>TOTAL</b>					121

# DREAMS Assessment: Qualitative

- Impact on relationships: Assertiveness

*Before I joined DREAMS, I was not thinking to say, what would happen if I entered a relationship. I did not know all that, I would just be happy to be in a relationship but since I joined DREAMS, they taught me a lot. If you are in a relationship or you do not like someone, they are not supposed to force you to be in a relationship with them; you are supposed to say I don't want.*

- Impact on relationships: Awareness of rights around GBV

*...if I joined DREAMS before, I wouldn't have had sex with A\_\_ because I did it because he wanted me to, in short, I can say that he forced me to, I never wanted to. Now after realizing that I have the right to say no, I could have said no*

- Impact on life: Financial independence and less reliance on men

*when you are in the community, as us girls, they are influences to say me when I have a boyfriend he does this and this for me, but you also want to be like them because you want that person to be providing what you don't have, but when I came here there is siyankha. They taught us how to do banking. When you find a k2 you put and will be able to prove for yourself and not depending on men and depending on your mother.*

- Impact on life: Better communication and support

*[mentors] took me in like the way we are right here and the asked me questions like “what is wrong” but I was not expressive enough. However, through their words, I started to be more open. And I could explain my life to say that it is like this ... they helped me by telling me that if there is anything wrong, I tell someone rather than being alone.*



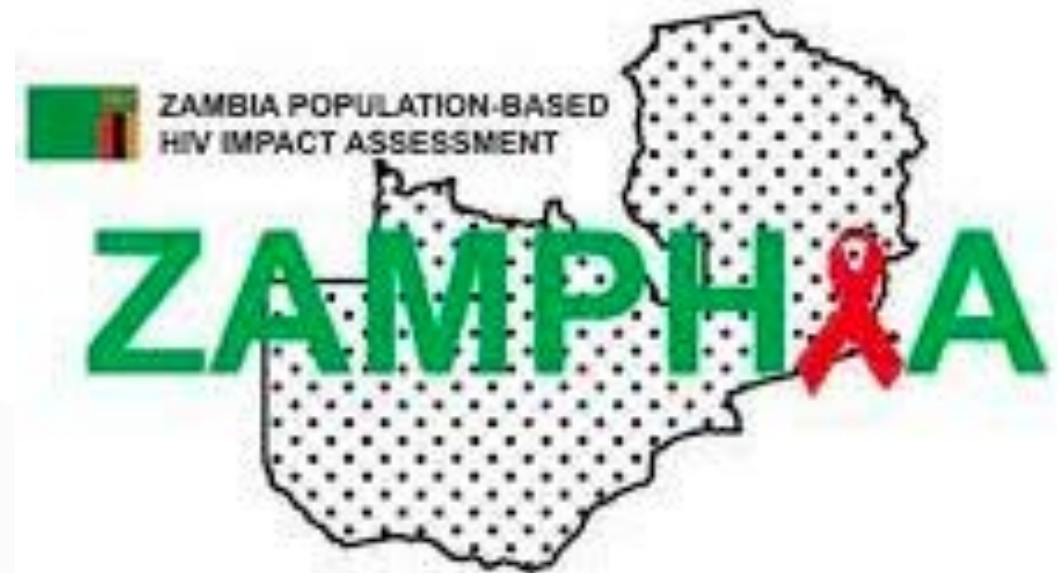
# CIRKUIITS

COMMUNITY **IMPACT** TO REACH KEY AND UNDERSERVED INDIVIDUALS FOR TREATMENT AND SUPPORT



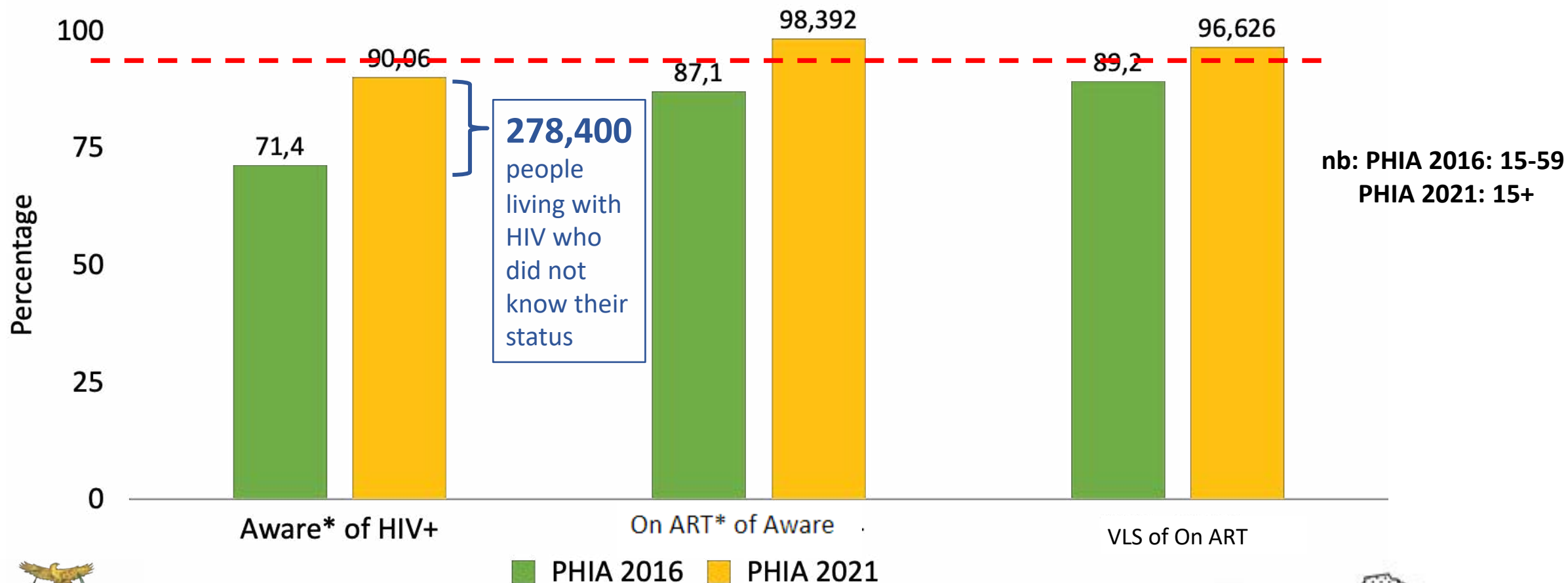


# ZAMPHIA 2016 & ZAMPHIA 2021



# ZAMPHIA 2021 and ZAMPHIA 2016 - 95-95-95 among adults

## Conditional Denominator



- \*Both awareness of HIV-positive status and on treatment status were based upon self-report or having a VL < 200 copies/mL
- 2016 ZAMPHIA data were ARV-adjusted while 2021 ZAMPHIA data are VL-adjusted

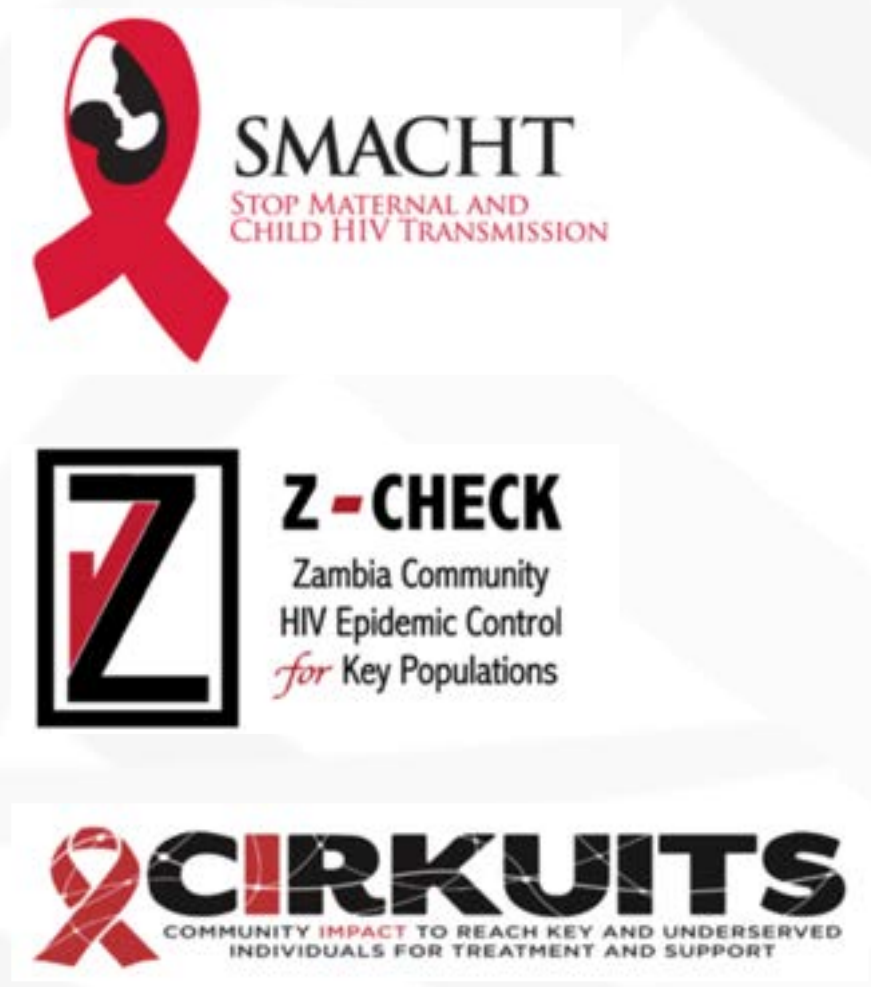


Preliminary results

# UMB Care & Treatment Projects

People living with HIV identified by UMB programs in Zambia

2015  
2016  
2017  
2018  
2019  
2020  
2021  
2022  
2023



46,138

20,200

36,221

- 278,400 people living with HIV identified in past 5 years
- 102,559 identified by UMB programs

**37% of national progress to first 95%**

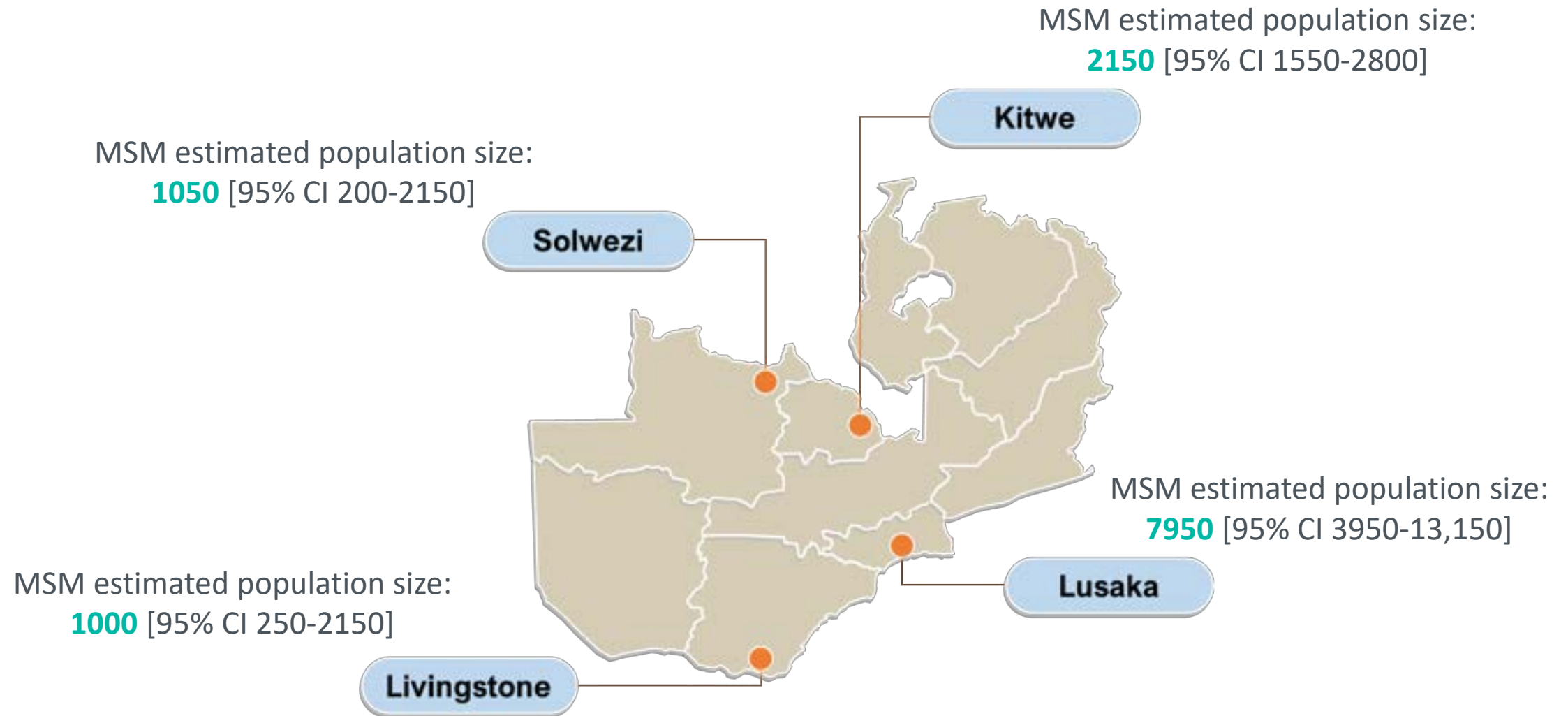
**TOTAL: 102,559**

# HIV and key populations in Zambia

Preliminary findings from a biobehavioral survey  
among men who have sex with men and persons who inject  
drugs

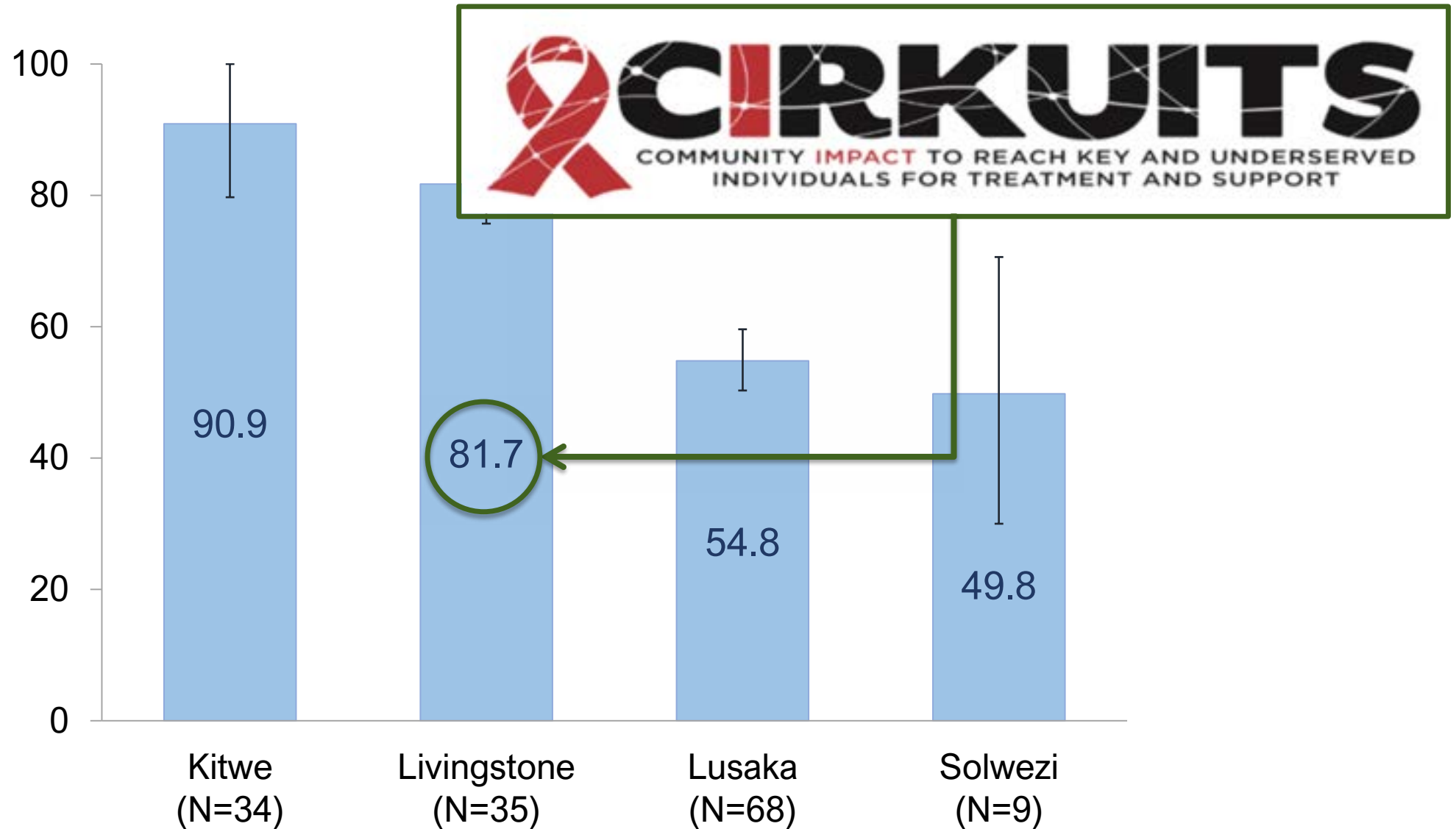
*Lazarus Chelu, Neena Philip, Leigh Tally, Brave Hanunka, Melvin Mwansa,  
Chipili Mulemfwe, Lophina Chilukutu, Hannah Chung, Giles Reid, Ray  
Handema, Kelvin Kapungu, Katongo Silwizya, Shepherd Khondowe,  
Innocent Bwalya*

# MSM population size estimates

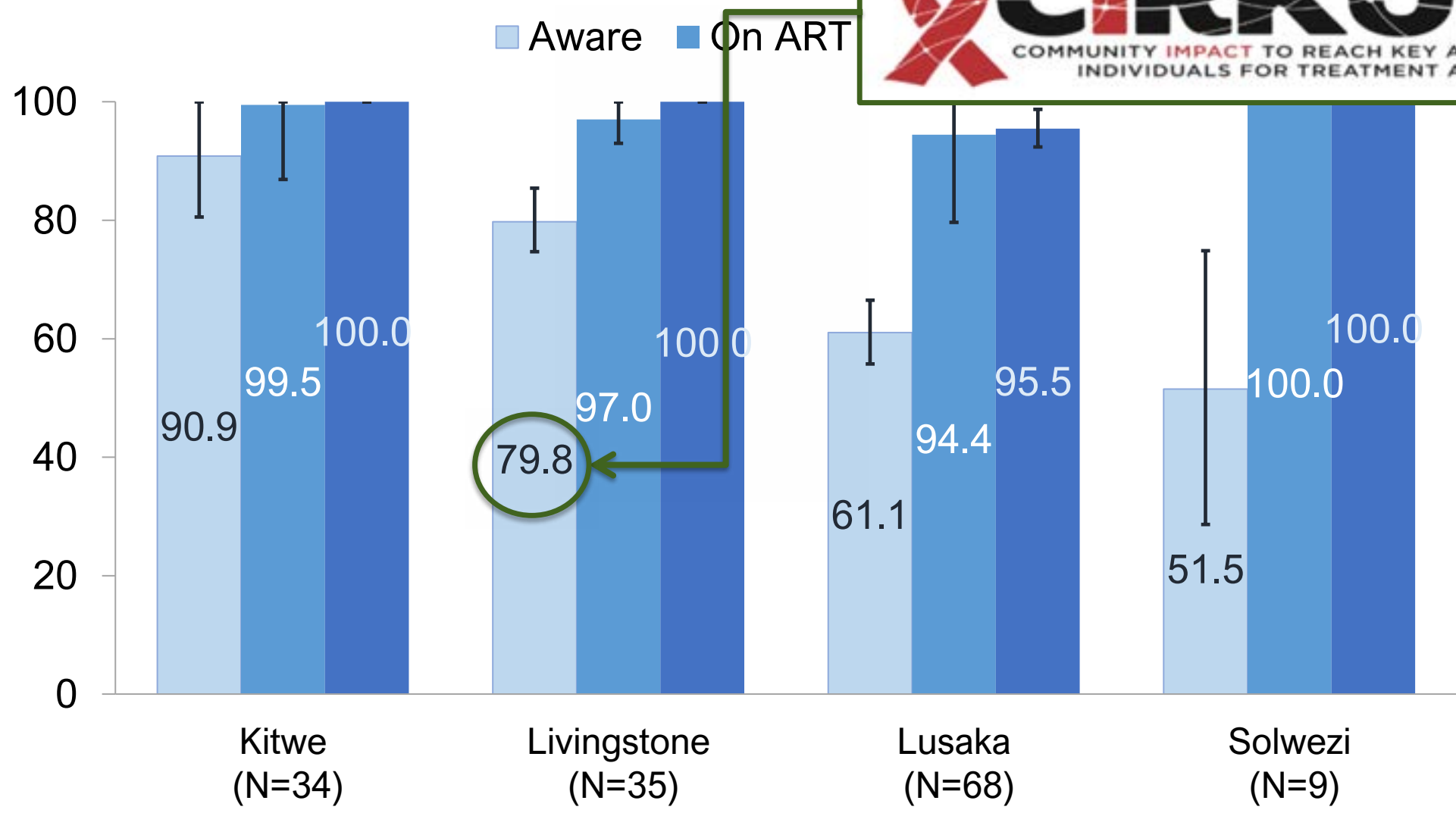


Note: 95% CI (credible interval): the interval within which the true population parameter is expected to fall 95% of the time

# Population viral load suppression prevalence among MSM living with HIV varies by town



# Low awareness of HIV status among MSM

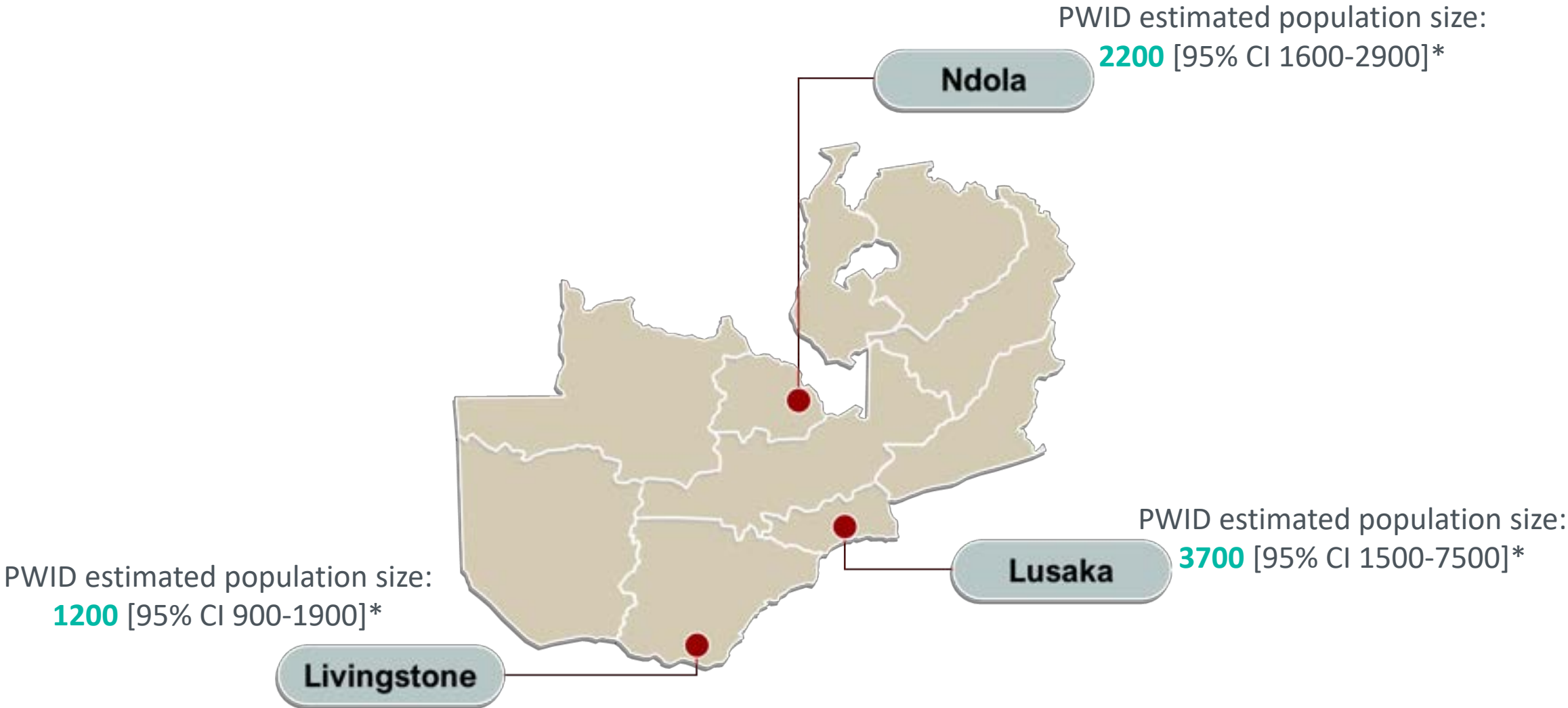


## **Key findings**

# **Persons who inject drugs (PWID) (preliminary)**

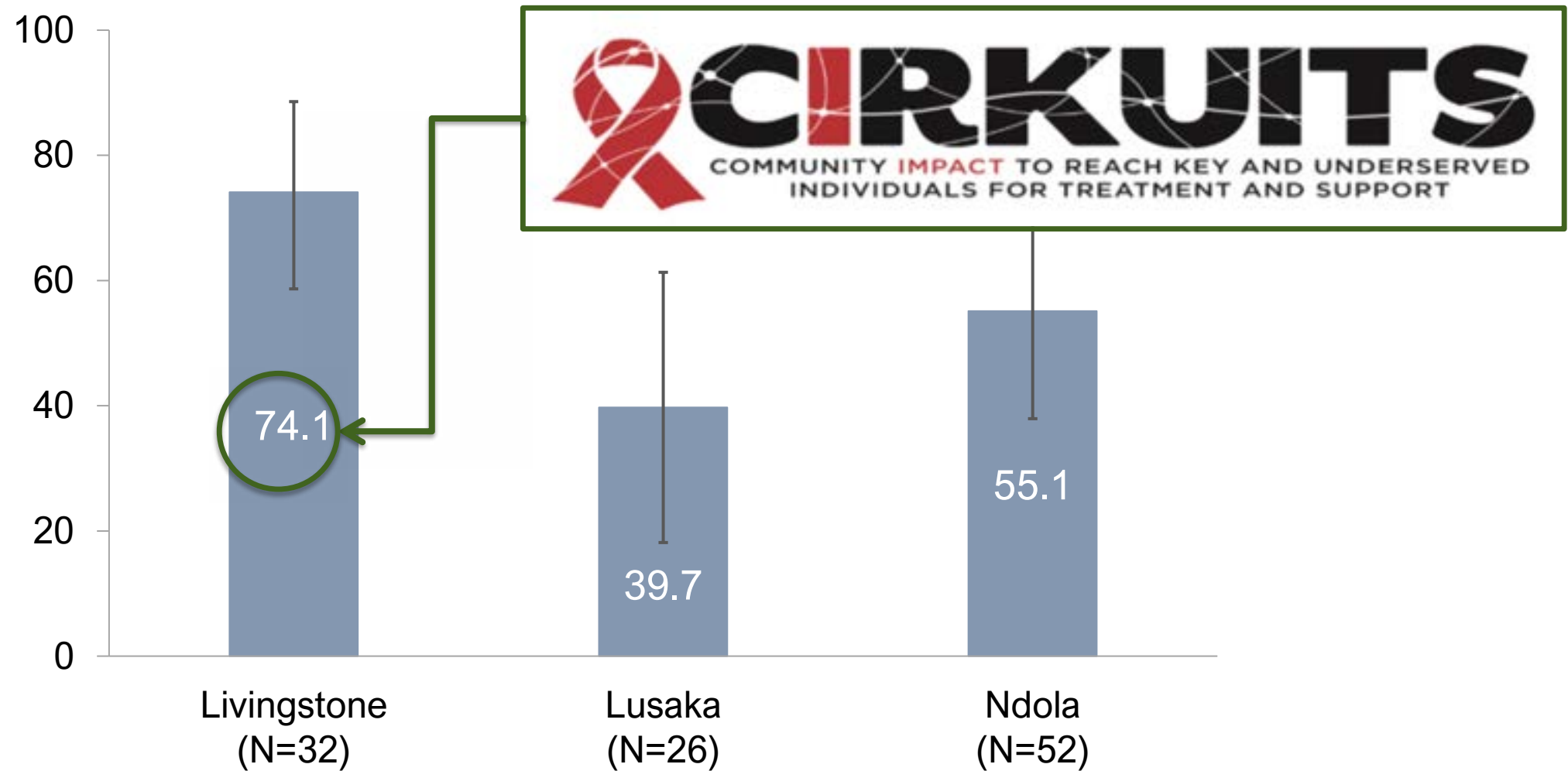


# PWID population size estimates

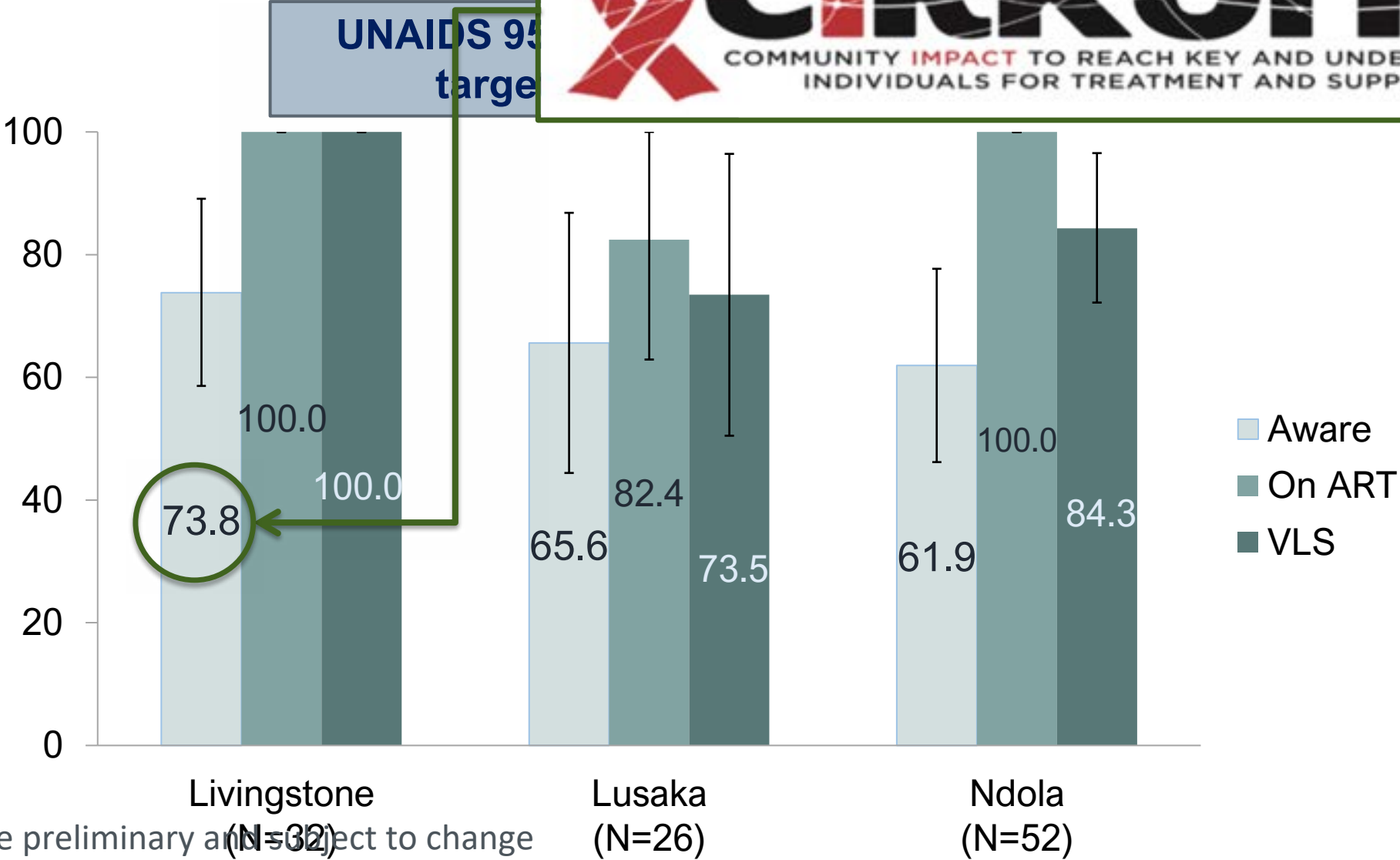


\* 95% CI (credible interval): the interval within which the true population parameter is expected to fall 95% of the time

# Low population viral load suppression prevalence among PWID living with HIV



# Low awareness of HIV-positive status among PWID living with HIV



\*Results are preliminary and subject to change

# Biobehavioral Survey Among Female Sex Workers (FSW) and Commercially and Sexually Exploited Girls (CSEEG) in Zambia

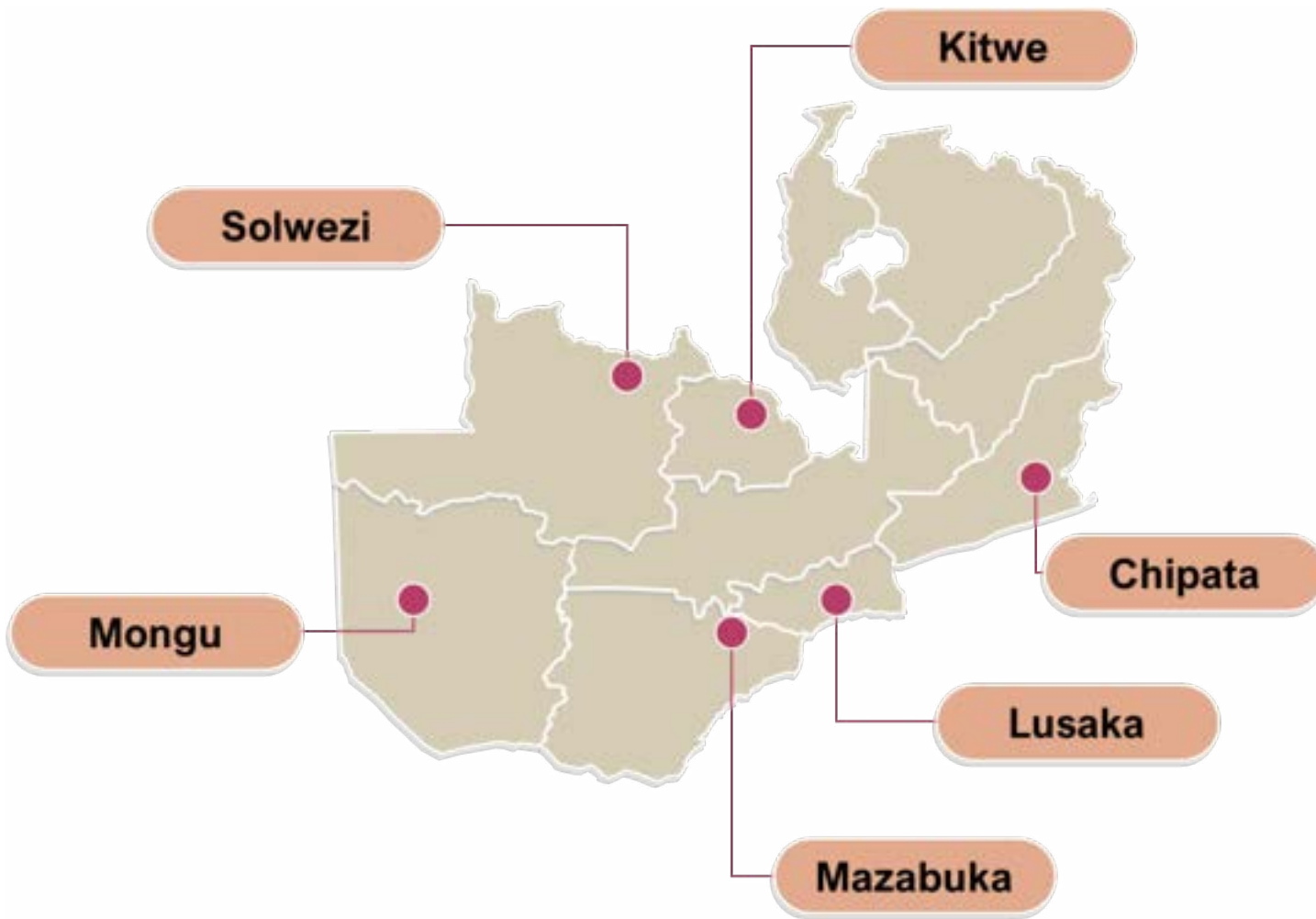
2023 Summary

August 31, 2023

Dissemination Meeting



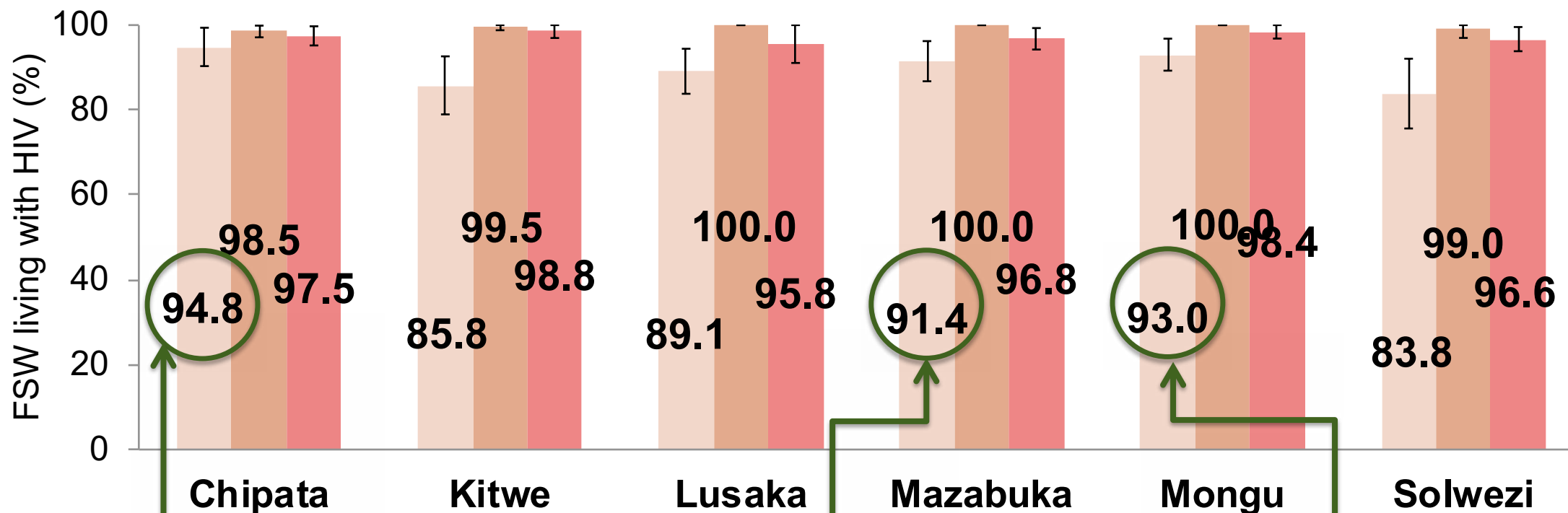
## 6 Survey Towns in Zambia



- Chipata
- Kitwe
- Lusaka
- Mazabuka
- Mongu
- Solwezi

# Low Awareness of HIV status among FSW & CSEG

UNAIDS 95-95-95 Targets (conditional, viral load adjusted %), by Town



\*Results are preliminary and subject to change

\* Both awareness of HIV-positive status and on treatment status were based upon self-report or having a VL < 200 copies/mL

# CIRKUIITS

## Lessons Learned



# CIRKUIITS Lessons Learned: Operational

- **Close collaboration** with MOH, PHOs, & DHOs essential to success
- **Capacity building and training** of healthcare providers has built long-lasting and sustainable quality workforce
- **Partnership with local stakeholders** (i.e., traditional leadership, line ministries, faith leaders, and local CSOs) critical to community operations and buy-in



Commissioning the DREAMS Pre fabs in Monze



# CIRKUIITS Lessons Learned: Program

- **Targeted HIV testing** (index, SNS) helped close the gap to first 90
- **Peer-to-peer approach** successful for finding key & priority populations
- **Differentiated service delivery** models such as DREAMS and KPIF effective at reaching AGYW & KPs
- Resilient **community health systems** can sustain health programs during pandemics and disruptions
- **Status-neutral approach** is a key strategy for reaching high-risk persons



# CIRKUIITS Lessons Learned: Technical

- Best practices and program successes can be disseminated via **scientific publications**
- **Technical innovations** such as line-listed data can inform precision public health programming
- Working with MOH to develop **forward-looking health policy** is critical for next generation public health programs



# CIRKUIITS Challenges

- **Flooding** during rainy season
- **Challenging terrain** in Zambia
- **COVID pandemic** posed challenge across health sector
- **Commodity and supply chains** systems need further strengthening
- **Misconceptions around HIV** prevention for AYP and KPs sometimes limited participation and implementation



Reaching far-flung populations

# Recommendations

- **Sustain gains in HIV epidemic control** – testing, linkage, viral suppression
- **Resilient community health systems** can respond to emerging health crises
- **Strengthen supply chain** to maintain needed commodities
- Continue **supporting DREAMS** and DREAMS-like activities to protect AYP
- **Ongoing sensitization** of community and healthcare workers on AYP & KPs



# Next Steps

- Implementation of CAB-LA in Mazabuka
- Development of Harm Reduction health policy for PWIDs
- Establishment of MAT clinics in Lusaka and Kitwe
- DREAMS Evaluation Results
- National DREAMS Data Repository



# Acknowledgements

- Government of Zambia Partners
  - Ministry of Health
  - LPHO, SPHO, EPHO, & WPHO
  - LP, SP, EP, & WP District Health Offices
  - National HIV/AIDS/STI/TB Council
  - Ministry of Education
  - Ministry of Home Affairs & Internal Security
  - Ministry of Community Development & Social Welfare
  - Ministry of Traditional Affairs
- U.S. Centers for Disease Control and Prevention & PEPFAR
- UMB Zambia Staff
- CIRKUIITS Partners
  - Ciheb Zambia
  - ECR
  - YWCA
  - ZINGO
  - CIDRZ
  - TLI, TBZ, UCCZ
  - Traditional Leadership
  - Community Partners
  - Healthcare Workers
  - Community Staff
  - Clients and Recipients of Care

Twalumba  
Litumezi  
Zikomo

