

Addressing health systems to meet 90-90-90 targets

Gloria Maimela

Infectious Disease Conference 2019,
Gallagher Convention Centre, Midrand Jhb
May, 30, 2019

Conflict of interest

- None to declare

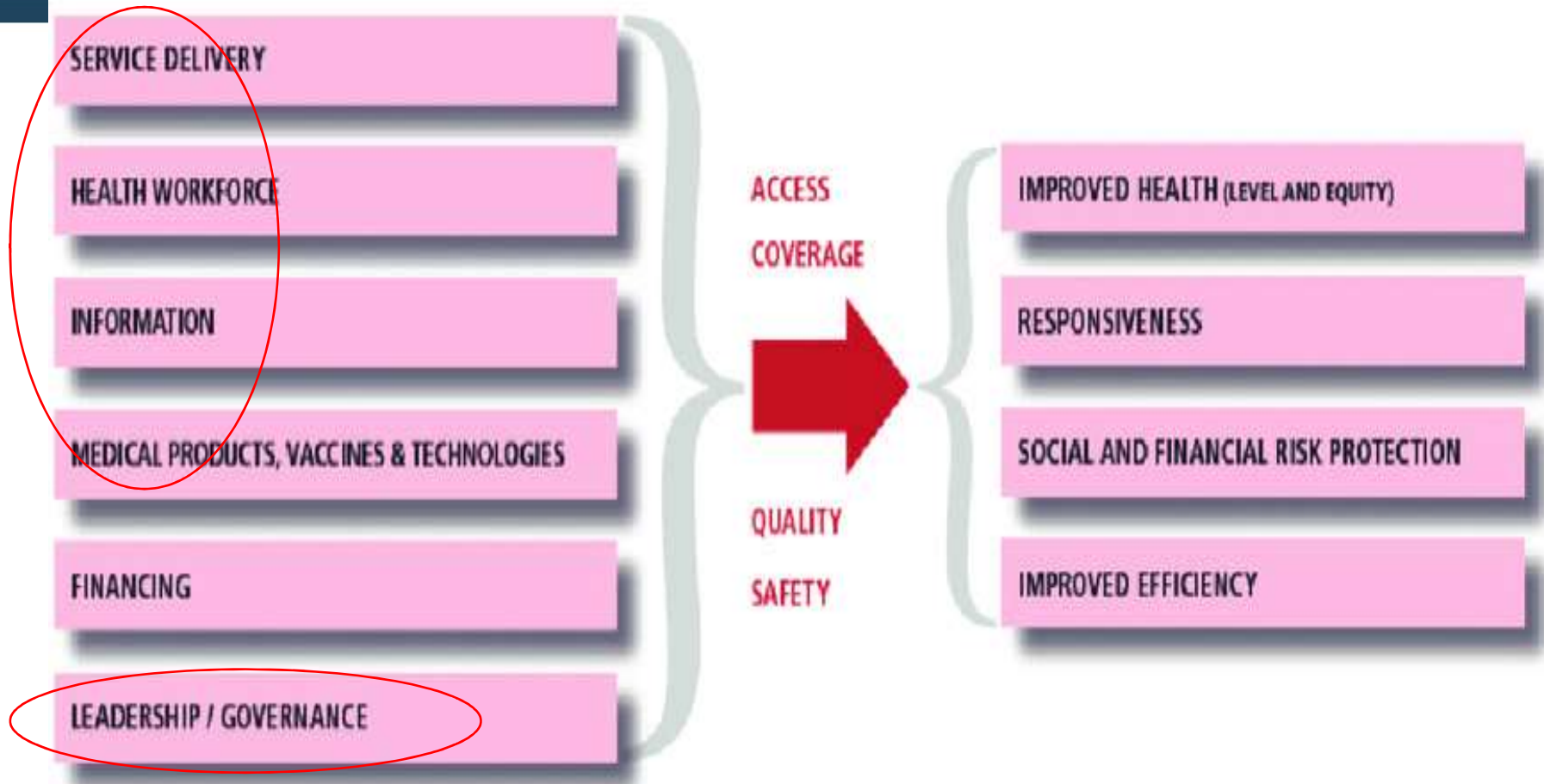
Defining health systems

- A system that consists of all the organizations, institutions, resources and people whose primary purpose is to improve health.
- The actions of the health system should be responsive and fair, while treating people **respectably**.



SYSTEM BUILDING BLOCKS

OVERALL GOALS / OUTCOMES



THE SIX BUILDING BLOCKS OF A HEALTH SYSTEM: AIMS AND DESIRABLE ATTRIBUTES

SA National Strategic Plan on HIV, TB and STIs

PREVENTION TARGETS FOR 2022

Reduce
NEW
INFECTIONS
OF HIV

from **270 000**
per year to less than
100 000

Reduce
NEW
TB
INFECTIONS

from **450 000**
per year to less than
315 000

Reduce
NEW
STI
INFECTIONS

Reduce NEW
STI INFECTIONS
and Identify
ASYMPTOMATIC
INFECTIONS

HIV TREATMENT TARGETS FOR 2022

90%
of PLHIV
know their status



90%
of people who know their
status receive ART



90%
of those on ART have a
suppressed viral load



TB TREATMENT TARGETS FOR 2022

Diagnose
90%
of people with TB
(including key populations)



Treat
100%
of people with TB



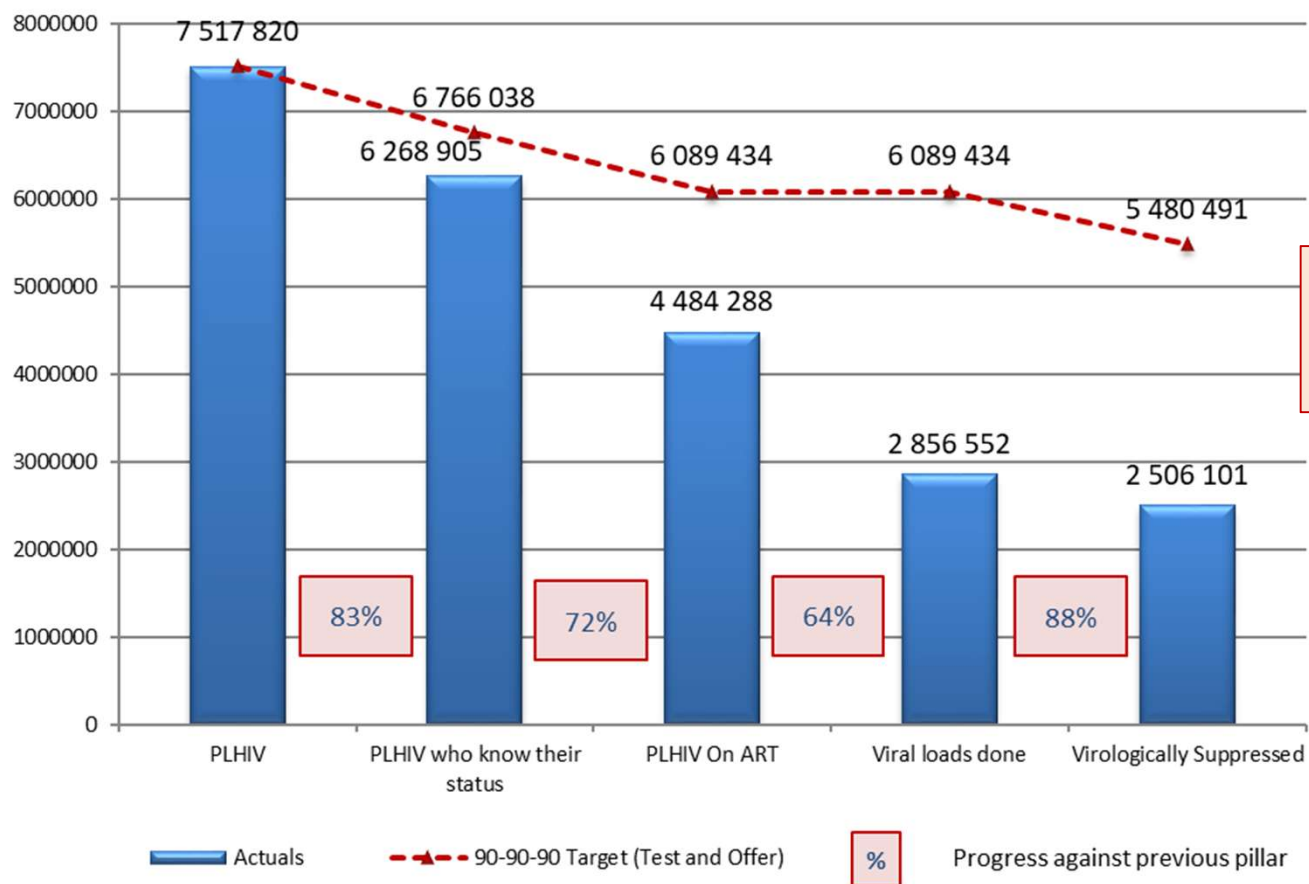
TREATMENT SUCCESSFUL
Drug-susceptible **90%**
Drug-resistant **75%**
Decrease TB mortality by 30%

Thuma mina

“This year, we will take the next critical steps to eliminate HIV from our midst. By scaling up our testing and treating campaign, we will initiate ***an additional two million people*** on antiretroviral treatment by December 2020.”

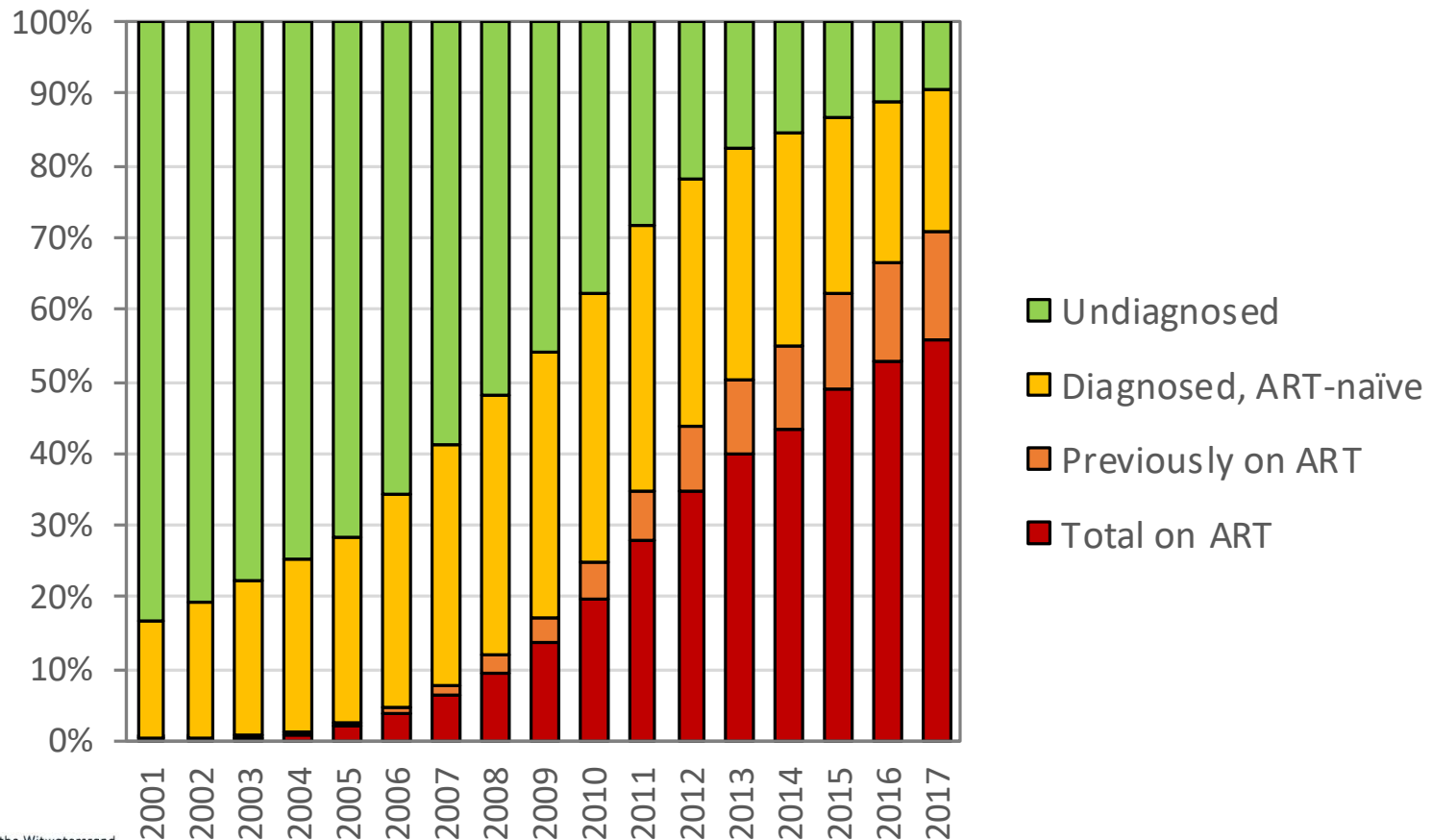
President Cyril Ramaphosa, State of the Nation Address, February 16, 2018

90-90-90 Cascade - Total Population (Dec 2018 - South Africa)

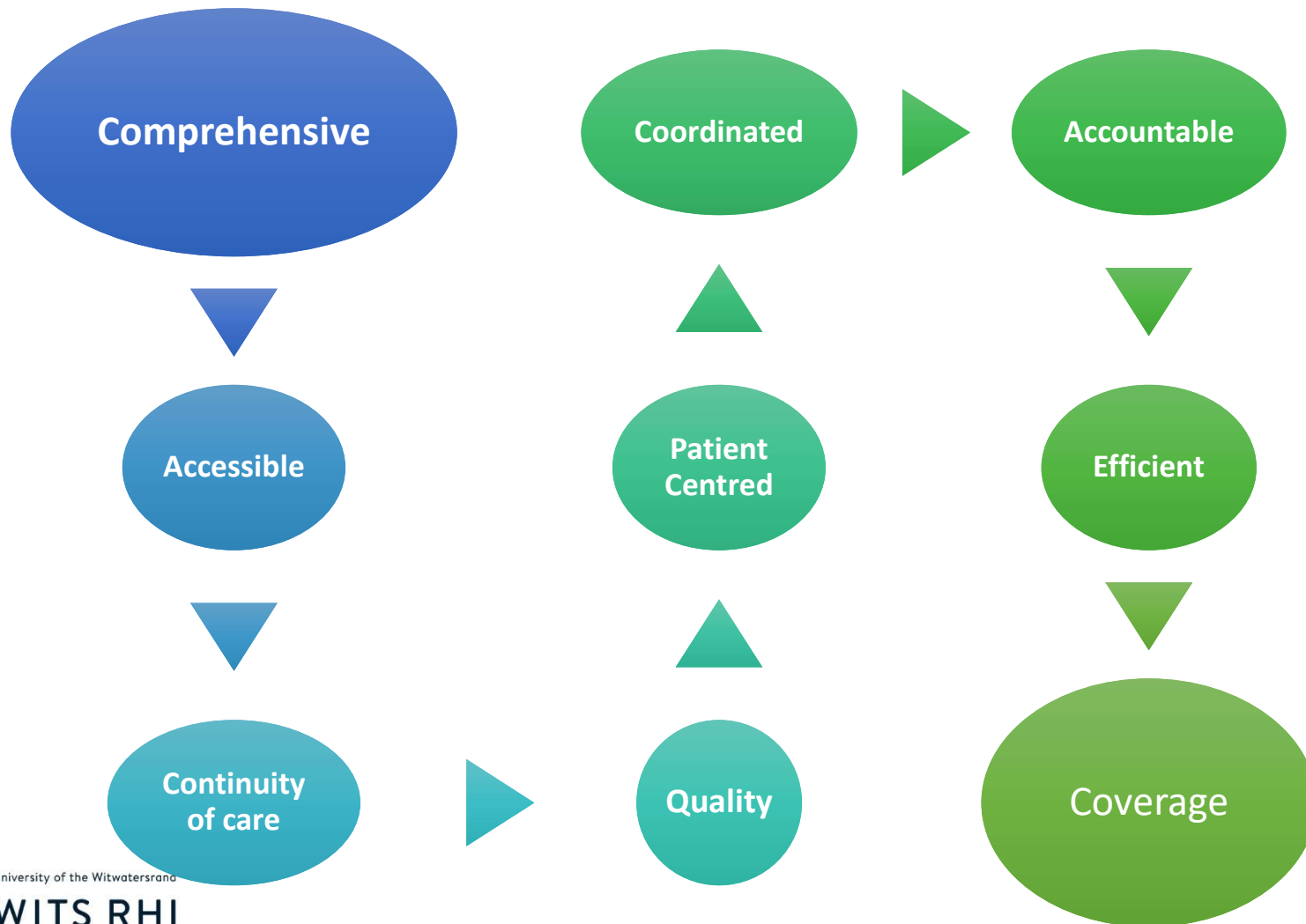


NDoH data from public sector only (300,000 from private sector not included)

SA HIV Program Progress 2001 - 2017



1. Service Delivery key characteristics





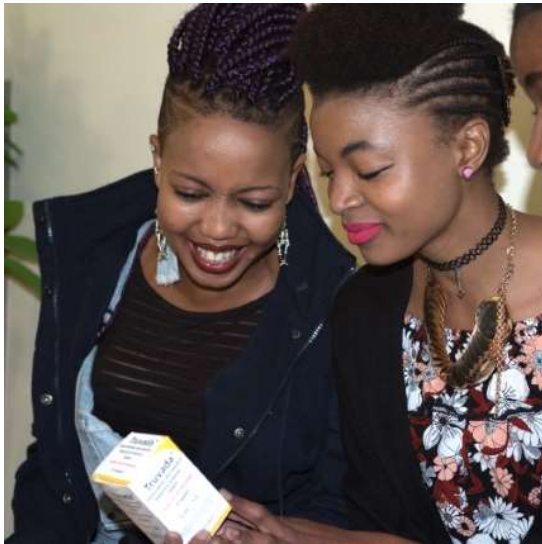
Addressing service delivery

Residents wake up in the early hours to receive service from clinic that only starts to operate hours later.



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Source: *Pta North Rekord* (2019)



Address barriers to access for vulnerable populations

2. The health workforce

“The ability of a country to meet its health goals depends largely on the knowledge, skills, motivation and deployment of the people responsible for organizing and delivering health services”
- WHO.

Attitudes of nurses towards patient care at a rural district hospital in the KwaZulu-Natal province of South Africa (2016)

“Poor attitudes of nurses, resulting in poor patient care, could severely undermine the ability of the health system to provide quality care and improve outcomes for patients”

Author J.L.M. Haskins¹, S. Phakathi², M. Grant³ and C.M. Horwood⁴



Search ID: 10m2741
This is an 'old person', or if you want to use the more technical term, a 'bedblocker'.

Human Resources for Health status in SA

Row Labels	Sum of Variance Available Operational Manager/ Facility Manager	Sum of Variance Available Professional Nurse /CNP	Sum of Variance Available Medical Practitioner	Sum of Variance Available Enrolled Nurses	Sum of Variance Available Pharmacy assistant	Sum of Variance Available Pharmacist	Sum of Variance Available Lay Counsellor
ec Eastern Cape Province	-174,40	-213,17	142,66	2429,19	633,91	35,55	-290,09
fs Free State Province	-64,35	11,75	32,87	638,56	99,88	-0,71	195,88
gp Gauteng Province	-12,80	-2,33	93,30	3148,68	889,34	35,87	492,34
kz KwaZulu-Natal Province	-118,64	90,86	91,40	2990,25	1110,93	55,05	565,93
lp Limpopo Province	-29,40	-255,16	63,03	958,72	390,92	20,00	114,92
mp Mpumalanga Province	-102,94	-74,00	56,71	1268,25	410,30	21,28	58,50
nw North West Province	-52,81	-101,96	16,06	1067,57	312,02	7,35	-169,98
wc Western Cape Province	0,00	327,15	40,89	572,51	163,57	8,18	163,57
Grand Total	-555,33	-216,87	536,92	13073,74	4010,87	182,55	1131,07



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Positive number denotes shortage

3. Health information systems

4 Key functions:

- (i) Data generation,
- (ii) Compilation,
- (iii) Analysis and synthesis,
- (iv) Communication and use.

Challenges:

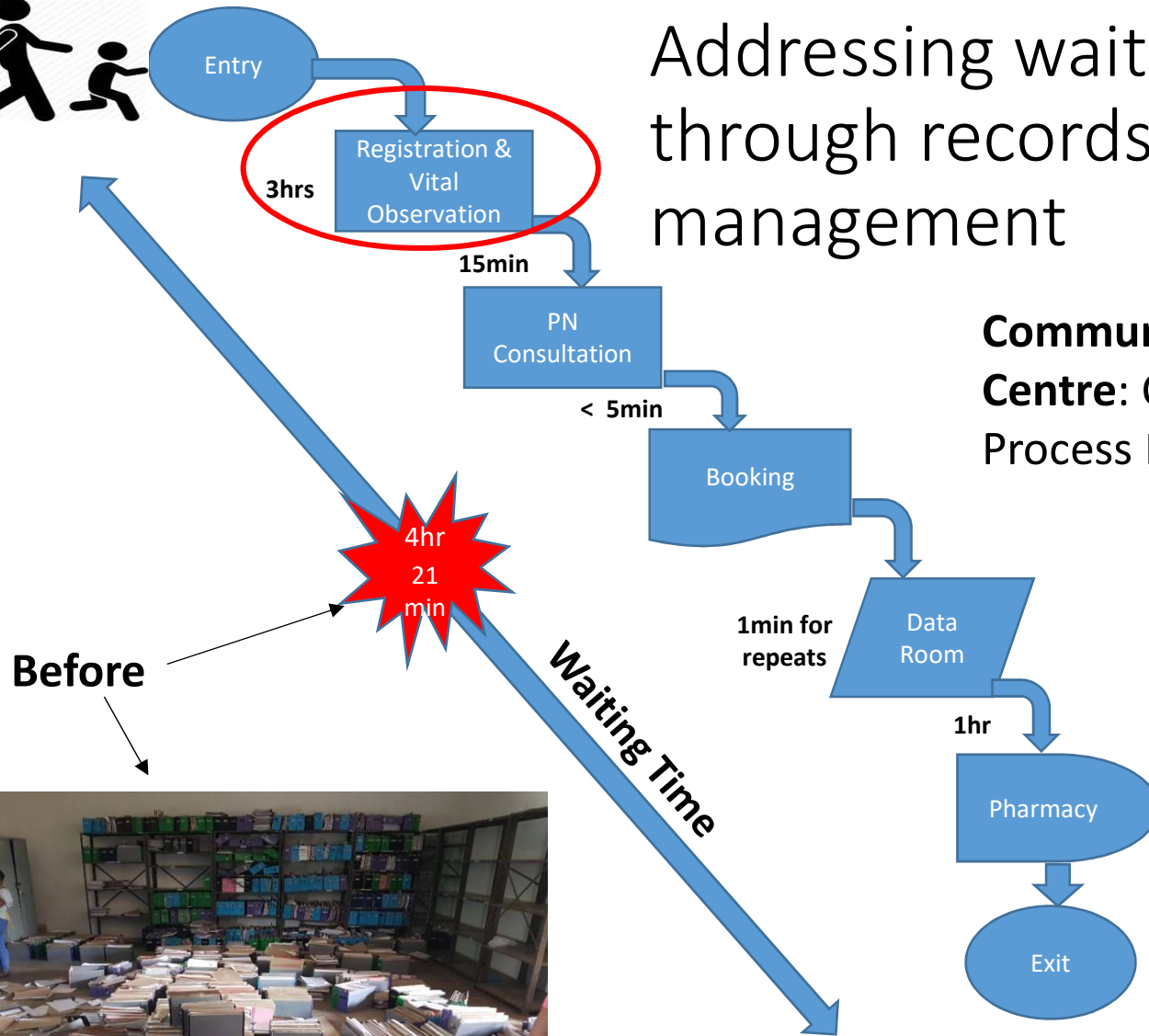
- Unique Patient Identifiers
- Data Quality: *Net loss 265 443 on Rx*
- Records Management



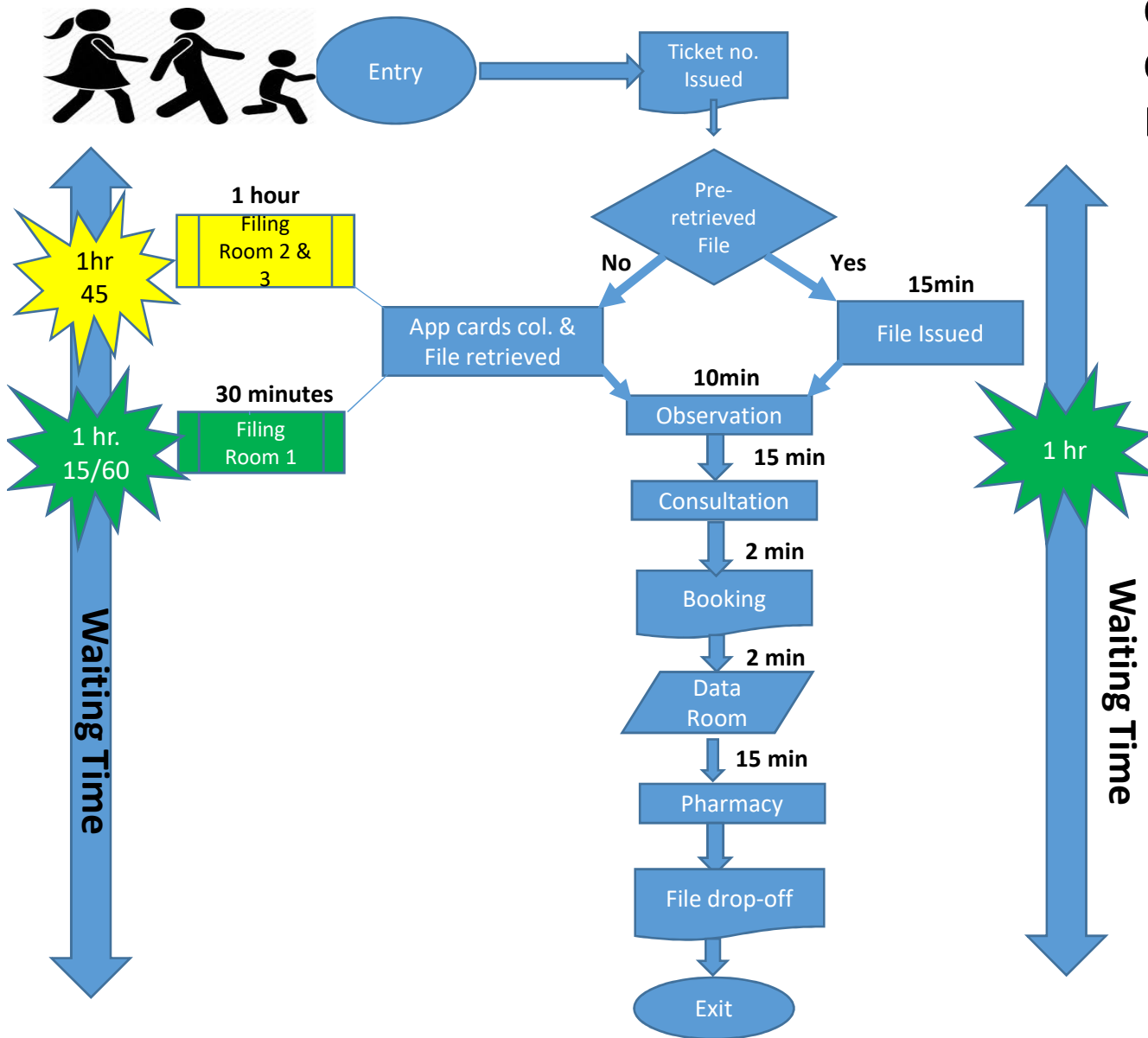


Addressing waiting times through records management

Community Health Centre: Chronic Patient Process Flow



Community Health Centre: Chronic Patient Process Flow



After



4. Access to essential medicines

UPDATED 13 OCTOBER 2018

Nationwide ARV shortages: Is South Africa heading for disaster?
There's a nationwide shortage of certain antiretrovirals and contraceptives, but the National Health Department has not yet devised a plan to address the problem





Increasing access to safer medicines

The integrase inhibitor dolutegravir is expected to have a role in future ART regimens in sub-Saharan Africa due to its high potency and barrier to resistance, good tolerability, and low cost

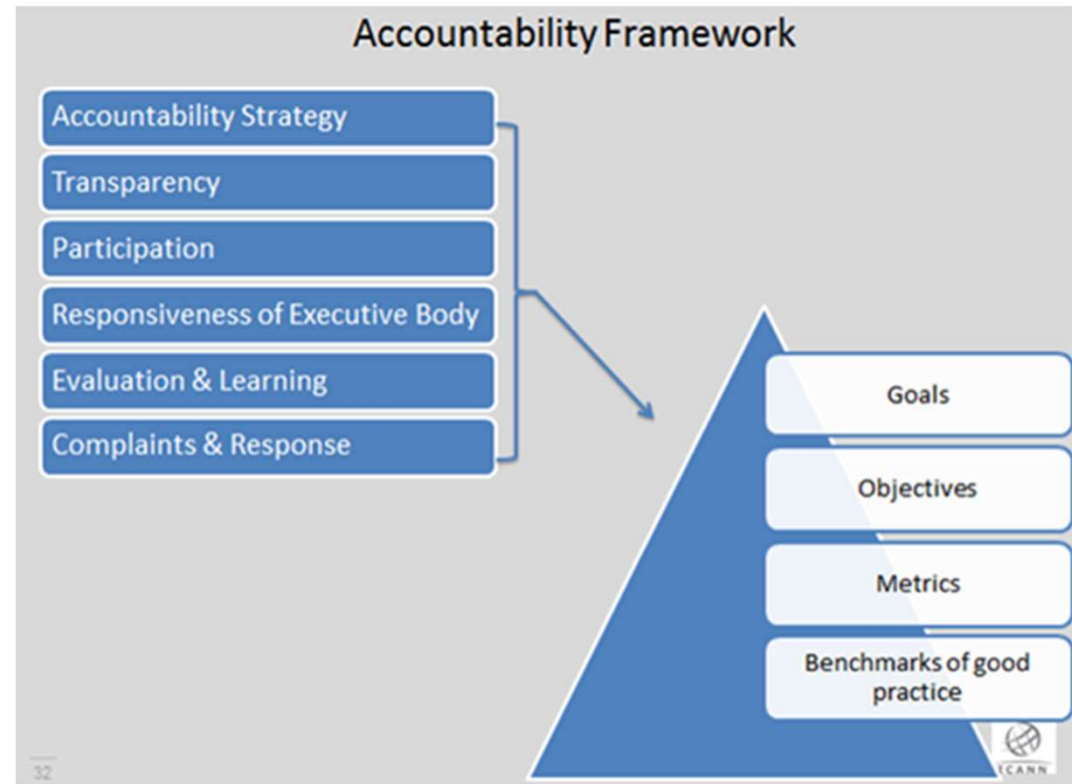
- Implants for Delivery of Antiretroviral Drugs for HIV Pre-Exposure Prophylaxis - **ONE APPROACH DOESN'T FIT ALL**



Implants for ARV may bypass adherence challenges for end users.

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5. Leadership and Governance





Health System
Strengthening
innovations
from the HIV
program we
should learn
from

Decentralisation of care

Task sharing to increase access and coverage: Nurse Initiated Management of Antiretroviral Treatment (NIMART)

NIMART rollout to primary healthcare facilities increases access to antiretrovirals in Johannesburg: An interrupted time series analysis

Authors: J C Y Nyasulu, E Muchiri, S Mazwi, M Ratshefola

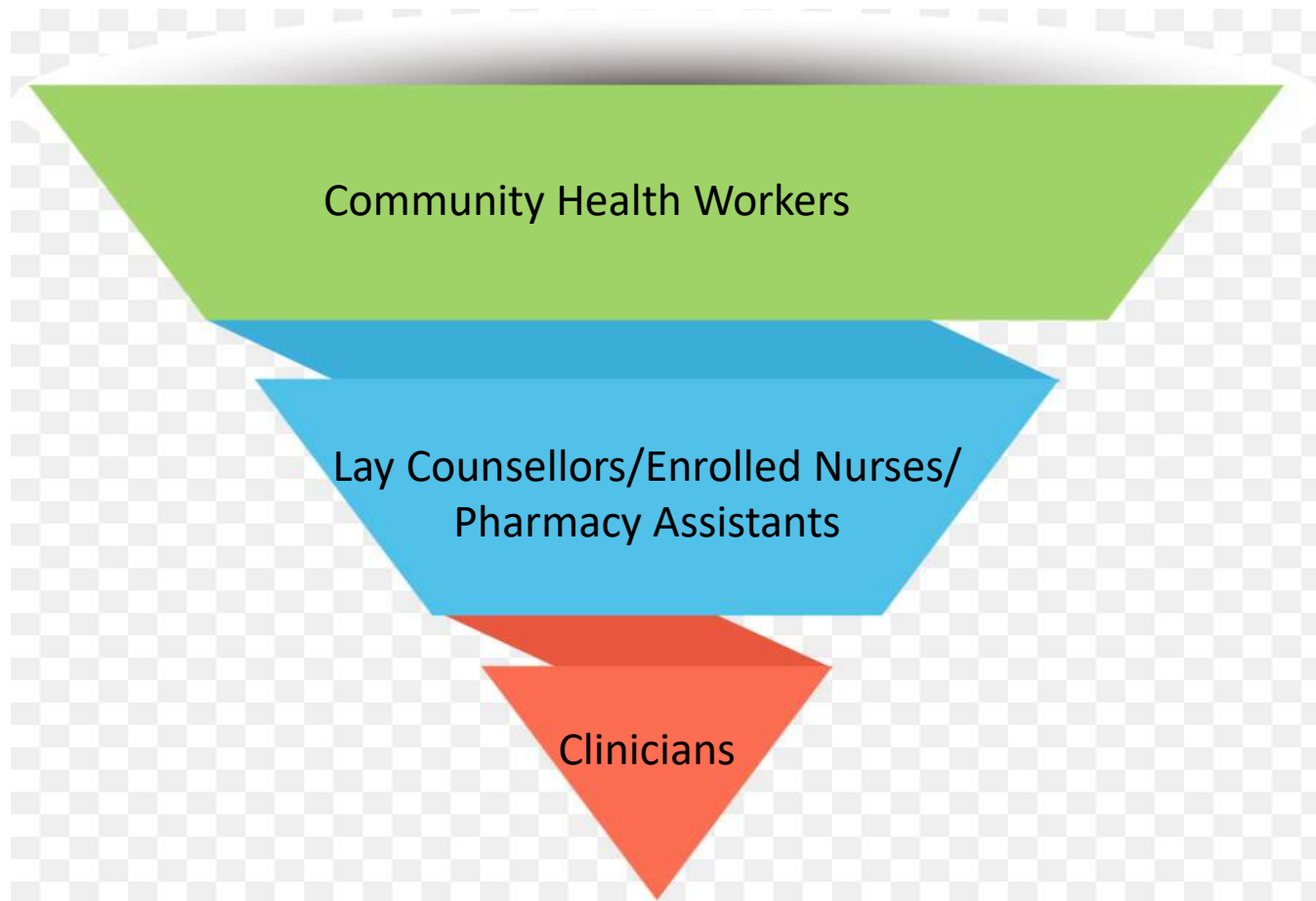
“In this study, decentralisation of ART initiation by professional nurses was shown to increase ART uptake and reduce workload at referral facilities, enabling them to concentrate on complicated cases. However, it is important to ensure capacity building, training and mentoring of nurses to integrate HIV services in order to reduce workload and provide a comprehensive package of care to patients. Engaging and having buy-in from DoH/CoJ partners in rolling out NIMART was crucial in increasing outputs as well as for sustainability of the NIMART programme.”

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Turning the health systems pyramid of care upside down



Investment case for CHWs



- If the number of CHWs increased to 96 000 and each were paid a stipend of R2500/m, and training costs, equipment and supervision were included – this would amount to 15% of the current public sector PHC expenditure.
- Over 10 years this would lead to cost savings owing to deaths averted, and would contribute to economic growth due to employment of women as CHWs.

Authors: Daviaud E, Besada D, Budlender D, Sanders D, Kerber K. Saving lives, saving costs: Investment case for community health care workers in SA, Cape Town: South African Medical Research Council, 2018



Health systems and the 1st 90

**HIV Self Screening – empowering
patients**



Health Systems and the 2nd 90



Community antiretroviral treatment initiation

Strategy for hard to reach populations who do not ordinarily access facilities

- Nurse Driven community ART initiation
- **Team consisting of:**
 - NiMART trained Nurses, Community Liaison Officers (Demand creation and linkage), Community Counsellors, Community Data Capturer, SIO And M and E advisor, Peer Educators

Collect chronic medicines closer to home or work

ba, Umgungundlovu and Umzinyathi Districts. Chronic medication will now be dispensed at a central point i.e. Medipost will pre-pack the medication and distribute these to health facilities or pick-up points. The idea behind the programme is to make it easier for patients to have access to their chronic medication. It will also allow patients to pick up medication in an area that is convenient for them, closer to their home or work. In this way patients do not have to travel far and endure waiting for a long time to pick up chronic medication. Patients who are stable can be enrolled into the CMDD programme. Stable patients are:

1. If you have been on chronic medication for more than six months and there has been no changes to your medication in that six months.
2. If you have been on AIV treatment for more than six months (with two tests done to show that you are stable).

Department employees will be speaking to patients at the different chronic clinics and those patients collecting chronic medication at the hospital to help with understanding the process. In preparation for the roll out, patients need to start taking their ID books or passports to the hospital or to the clinics on your dates, and have a cellphone number for us to register you on the program. You may also nominate people to collect on your behalf (friend, neighbour etc). Please also have their ID. Medication will come to the pick-up point close to your home or work. For any questions please contact the Stanger Hospital pharmacy department on: 032 6088/6089.

Members of the community, service providers and schools are urged to support this worthy cause. The raffle draw will take place in December 2016 to enable the winners to redeem their prizes for the new academic year in January 2017. The proceeds from the raffle competition will be utilised to render social work services to the community. Richfield Graduate Institute of Technology will be at stall Winter Fair.



Stand a chance to win a R20 000 bursary

JYOTHI LALDAS



was held at Raza's Mutton Market. He assisted with the draw. Trevolin is the prize winner.

CHILD Welfare SA, Kwadukuzana and Richfield Graduate Institute of Technology will hold a raffle competition to raise much needed funds to sustain the society. According to senior social work manager Penny Dhaver, Richfield Graduate Institute of Technology formerly known as PC Training and Business College, sponsored generous prizes for the raffle competition. The first prize is a bursary valued at R20 000 and the second prize is a Lenovo tablet. The raffle competition will be held till the end of November 2016. She said schools are requested to participate in the competition.

"Raffle tickets are priced at R5. For every raffle sheet sold, the pupil will receive a free entry to the raffle competition. Richfield Graduate Institute of Technology is in existence for 25 years with more than 25 higher education sites. They have two campuses in Bahlito and Umhlanga." She added, technological vocational educational training (TEVT) is one of their popular courses that includes business administration, information technology and systems engineering. "Degrees, diplomas, higher certificates and short programmes are also offered and the winner is in line for any one of these."



Senior social work manager Penny Dhaver, Gary Gokhale from Richfield Graduate Institute of Technology and society president Oudhrum.



Hans Pillay was the second prize winner and he is being handed his prize by staff member Kassim.

Security, safety first



The easily identifiable Strongborn Security vehicle. PHOTO: SUPPLIED

sector. In 2010 STRONGBORN SECURITY was introduced to Kwadukuzana, currently situated at 10 STANGER CENTRE, KING SHAKA STREET above the Mr Price store. STRONGBORN SECURITY has since achieved a lot while working for different institutions including the Department of Transport in Stanger and Essor Construction. We pride ourselves on employing the best suitably qualified security officers, who have adequate experience and education in addition registration with PSIRA is our priority in our recruitment policies. STRONGBORN SECURITY is now providing ARMED and UNARMED security services. During late 2015 STRONGBORN SECURITY introduced an ELECTRONIC DIVISION which has grown at a satisfactory speed in a period of six months having achieved more than a 150 clients in the area. STRONGBORN SECURITY is easily identified with its logo, a BULL, which identified the strength and the eagerness to fight crime. Our vehicles are clearly marked for easy identification.

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Health Systems and the 3rd 90

Conclusion



Functional Health Systems are key to reaching 90-90-90 targets



Addressing service delivery is critical to improving health outcomes



There is a need to balance the demand (>2million people on treatment) with supply (health workforce, essential medicines)



Leadership and Governance with built in accountability structures are key to successful and efficient health systems



Lessons learnt from HIV program should be scaled to strengthen health systems for the benefit of other infectious and non infectious diseases

Acknowledgements

- Wits RHI Colleagues
- South African National Department of Health
- Tshwane District Department of Health



In memory of
my
grandmother
Mabel
Leretletse
Khoza

