



The Rise of African National Public Health Institutes Lessons Learned from Stakeholder Involvement

Dr NT Mayet
Deputy Director National Institute for Communicable Disease
email: nataliem@nicd.ac.za



**NATIONAL INSTITUTE FOR
COMMUNICABLE DISEASES**

Division of the National Health Laboratory Service

Complexity is...

- Complexity comes from the Latin word *Complexus*:
- Com means *together*
- Plectere *to wave or brand*
- How things are connected with each other and how these interactions work together

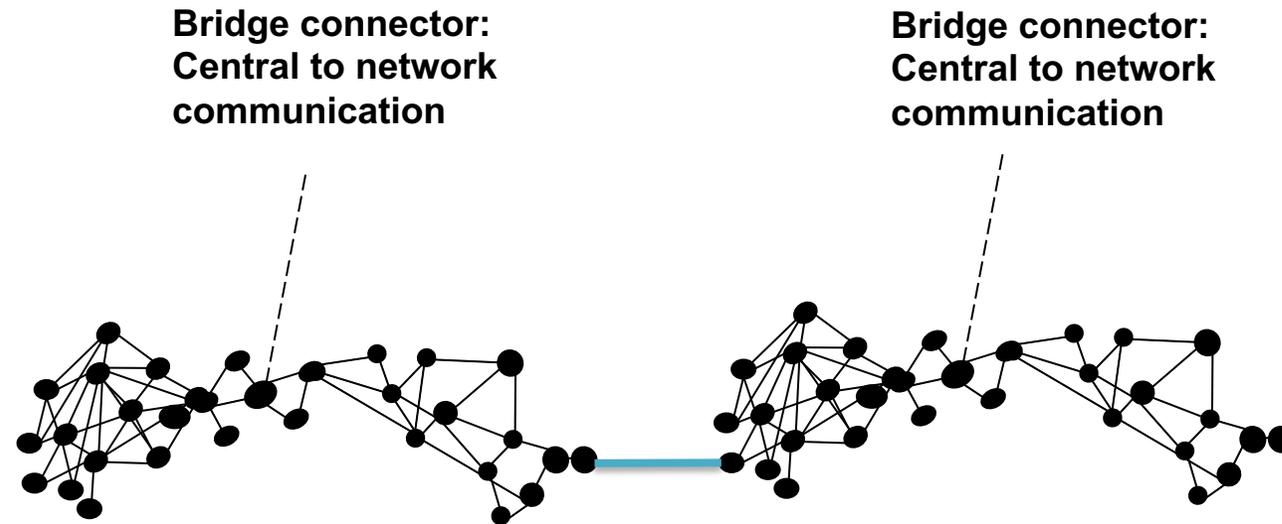
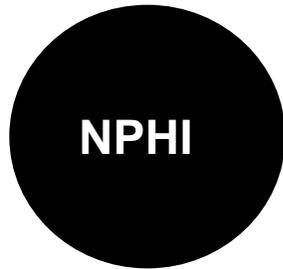
Four institutional logic shifts required

1. Increasing external focus
2. Moving to greater openness
3. Focusing on enabling interactions and
4. Adopting interaction-centric metrics

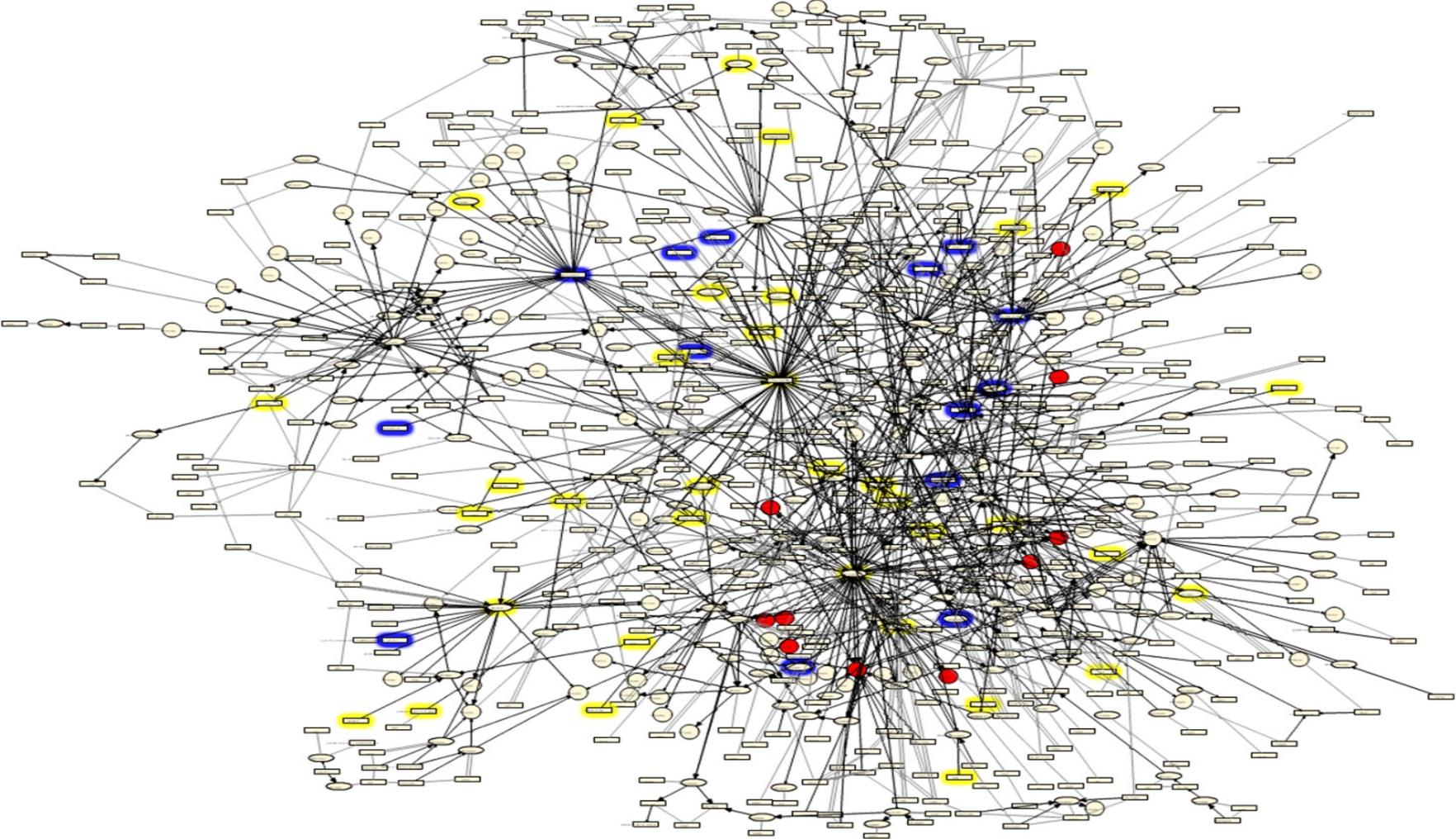
As mature incumbent organizations adopt these strategies, there may be tensions and multiple conflicting institutional logics

National Public Health Institutions as bridge connectors

Central position offers opportunity to tap into many different audiences



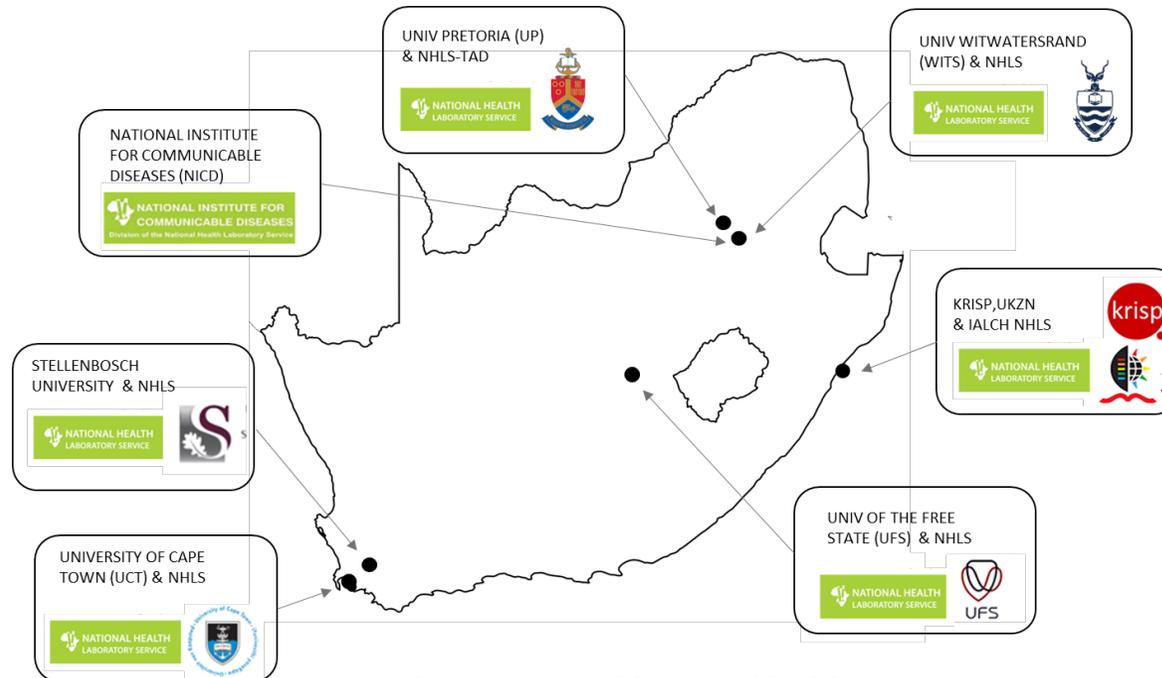
Matrix of networks



Trust relationships

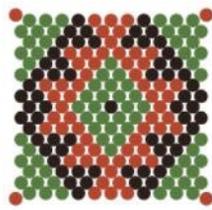
SARS-CoV-2 Sequencing Update

22 October 2021



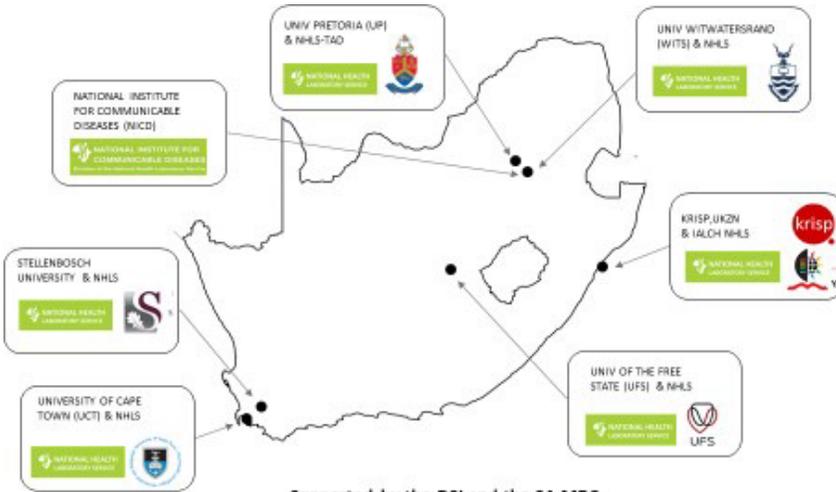
Supported by the DSI and the SA MRC

Msomi N, Mlisana K, et al. Lancet Microbe 2020



NGS-SA

Network for Genomic Surveillance in South Africa



Supported by the DSI and the SA MRC



UNIVERSITEIT VAN PRETORIA
UNIVERSITY OF PRETORIA
YUNIBESITHI YA PRETORIA



UNIVERSITY OF CAPE TOWN
IYUNIVESITHI YASEKAPA • UNIVERSITEIT VAN KAAPSTAD



science & innovation
Department:
Science and Innovation
REPUBLIC OF SOUTH AFRICA



WITS
UNIVERSITY



UNIVERSITY OF
KWAZULU-NATAL
INYUVESI
YAKWAZULU-NATALI



University of Cape Town, NHLS & WCG



NHLS-UCT

Carolyn Williamson
Nei-yuan Hsiao
Diana Hardie
Kruger Marais
Stephen Korsman
Ziyaad Valley-Omar

WCG-UCT

Mary-Anne Davies
Hannah Hussey
Andrew Boulle
Masudah Paleker
Theuns Jacobs
Erna Morden



UCT, IDM and CIDRI-Africa

Deelan Doolabh
Arash Iranzadeh
Lynn Tyers
Innocent Mudau
Nokuzola Mbhele
Fezokuhle Khumalo
Thabang Serakge
Bruna Galvão
Arghavan Alisoltani
(U. California)

Robert Wilkinson
Darren Martin
Nicola Mulder
Wendy Burgers
Ntobeko Ntusi
Rageema Joseph
Sean Wasserman
Linda Boloko



University of the Free State



UFS

Dominique Goedhals
Armand Bester
Martin Myaga
Peter Mwangi
Emmanuel Ogunbayo
Milton Mogotsi
Makgotso Maotoana
Lutfiyya Mohamed



NHLS Division of Virology

Sabeegah Vawda
Felicity Burt
Thokozani Mkhize
Diagnostic laboratory staff



Additional support and collaborators

NHLS

Koeleka Mlisana
Zinhle Makatini
Eugene Elliot
Florette K. Treurnicht
Kathleen Subramoney
Oluwakemi Laguda-Akingba
Shareef Abrahams
Greta Hoyland
Gloria Selabe
Elias Bereda
Jeannette Wadula

Hyrax Biosciences

Simon Travers

Cape Town HVTN Laboratory

Erica Anderson-Nissen
Anneta Naidoo

Ndlovu Research

Hugo Tempelman
CJ Umunnakwe

Lancet

Allison J. Glass

Ampath

Terry Marshall
Cindy van Deventer
Eddie Silberbauer

Pathcare Vermaak

Andries Dreyer
Howard Newman
Riaan Writes
Marianne Wolfaardt
Warren Lowman

Bridge-the-Gap

Raymond Rott

Cytespace Africa Laboratories

Christa Viljoen

ARC-OVI

Lia Rotherham

CAPRISA

Salim Abdool Karim
Nigel Garret

UKZN - Big Data

Francesco Pettruccione
Ilya Sinayskiy

University of Oxford

José Lourenço

FioCruz, Brazil

Vagner Fonseca
Marta Giovanetti
Luiz Carlos Junior Alcantara

Africa CDC

John Nkengasong
Sofonias Tessema

Netcare:

Richard Friedland
Craig Murphy
Caroline Maslo
Liza Sitharam

DSI

Glaudina Loots

SA MRC

Glenda Gray



HYRAX
BIOSCIENCES



South African Modelling Consortium



South African COVID-19 Modelling Consortium

National COVID Epi Model - Updated on 01 June 2022

About the SACMC

About the NCEM

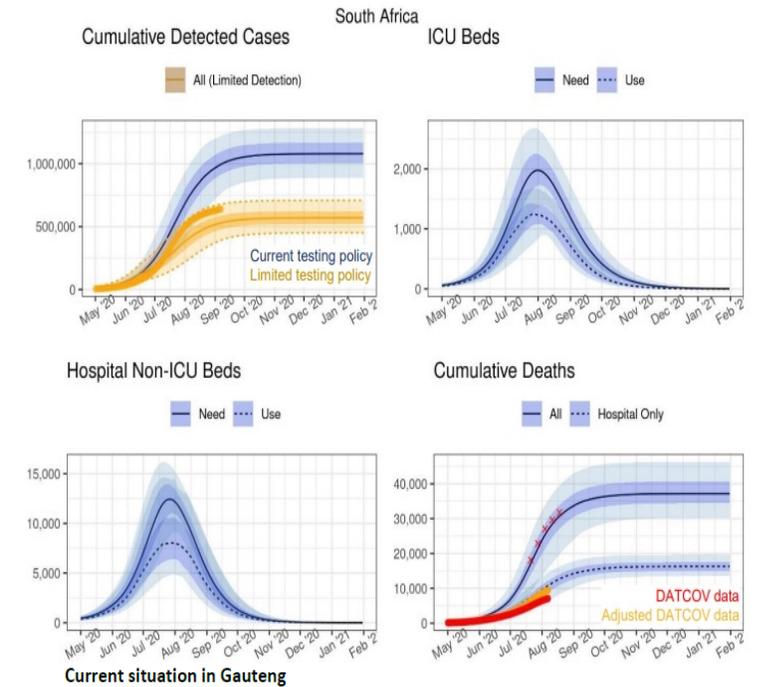
NCEM v1.0 (Provincial Model)

NCEM v2.0 (District Model)

About the SACMC

The South African COVID-19 Modelling Consortium (SACMC) is a group of researchers from academic, non-profit, and government institutions across South Africa. The group is coordinated by the National Institute for Communicable Diseases, on behalf of the National Department of Health. The mandate of the group is to provide, assess, and validate model projections to be used for planning purposes by the Government of South Africa.

Figure 4: Projected cases and inpatient bed need and use at the national level. The red crosses in the bottom right-hand panel represents 80% of the excess deaths found in the SAMRC analysis



Current situation in Gauteng

a. Sustained and rapid increases in incidence in all districts in Gauteng
SARS-CoV-2 incidence is increasing incredibly rapidly in all districts in Gauteng. All districts are in a period of sustained increase.

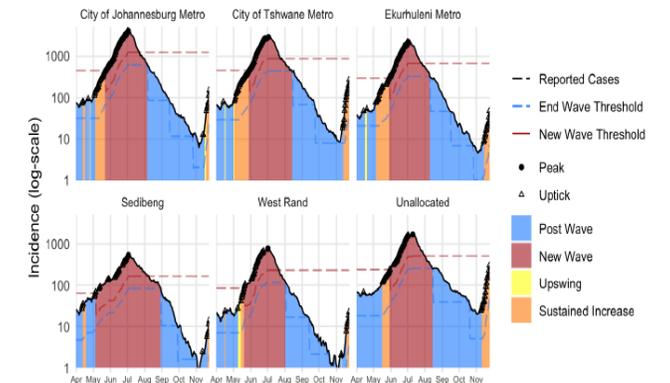


Figure 1: Sustained increase plots for Gauteng districts as of 26 November²

Our stakeholders communication tools

NATIONAL INSTITUTE FOR COMMUNICABLE DISEASES
Division of the National Health Laboratory Service

COMPILED FEBRUARY 2018
OUTBREAK RESPONSE UNIT, DIVISION OF PUBLIC HEALTH SURVEILLANCE AND RESPONSE
CENTRE FOR ENTERIC DISEASES

Management of persons following exposure to *Listeria*-contaminated Foods: A Guide for Healthcare Workers

1. **What is Listeriosis?**
Listeriosis is a serious bacterial disease caused by *Listeria monocytogenes*. It is transmitted to persons following the ingestion of contaminated food products. It is an important cause of foodborne outbreaks with high fatalities ranging from 20 – 30%. It can be treated with antibiotics. Anyone can get listeriosis. However, persons at high risk of severe disease include pregnant women and their unborn babies, the elderly (>65 years), persons with underlying conditions such as diabetes, cancer, chronic liver or kidney disease, and persons with weakened immune systems due to HIV or cancer chemotherapy.

NATIONAL INSTITUTE FOR COMMUNICABLE DISEASES
Division of the National Health Laboratory Service

COMPILED JANUARY 2017
OUTBREAK RESPONSE UNIT, DIVISION OF PUBLIC HEALTH SURVEILLANCE AND RESPONSE;
CENTRE FOR VACCINE AND IMMUNOLOGY

Poliomyelitis Frequently Asked Questions

1. **What is poliomyelitis?**
Poliomyelitis is a viral infection caused by poliovirus, belonging to the *Enterovirus* genus. Poliovirus is highly



Account home
NICD @nicd_sa

28 day summary with change over previous period

Metric	Value	Change
Tweets	8	↓20.0%
Tweet impressions	40.1K	↑258.2%
Profile visits	1,789	↑78.4%
Mentions	129	↓12.2%
Followers	1,161	↑225



Mailchimp

Public Health Bulletin South Africa

p + h + b + [social icons]

DATA 2 POLICY BRIEFS

Way forward

1. Involvement of communities Event Based Surveillance – marginalized
2. Leverage off each others network platforms
3. Digitised socialism – power of the collective
4. Convener capital
5. Involvement of teams NPHI`s
6. Think global, act local

Acknowledgement & Thank you

Thank you to the network matrix

IANPHI

IANPHI Africa

Africa CDC and Prevention

WHO

US CDC and Prevention

Technical teams

TEPHINET

AFENET Donors

Funders

Partners

Team at NICD

Those we serve