

# TB diagnostic and sample transport /RWANDA Experience

Innocent NZABAHIMANA

National Reference Laboratory

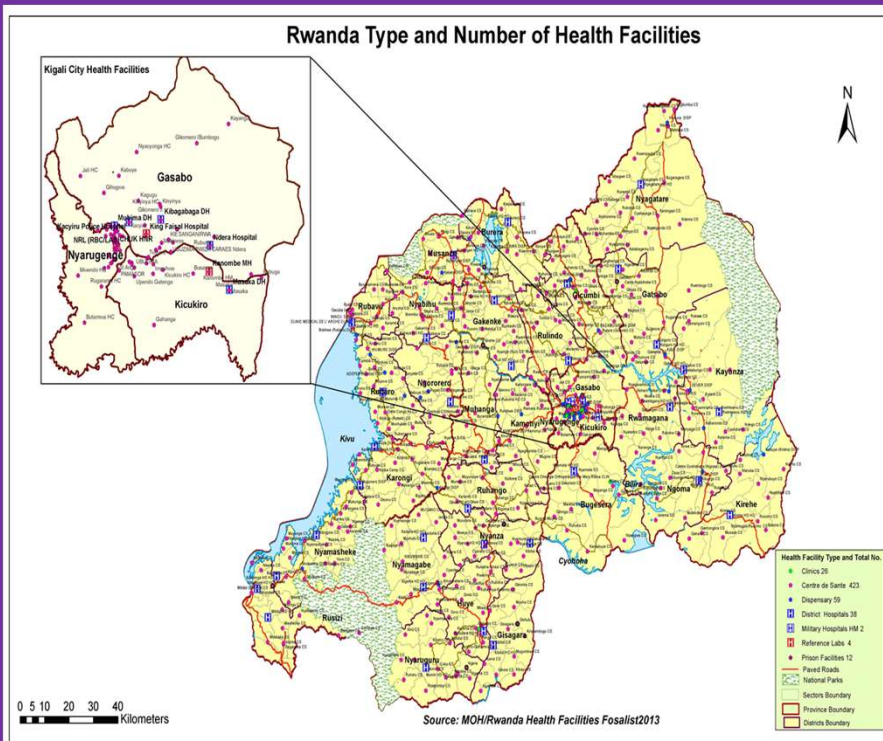
SERENA Hotel, Date 05<sup>th</sup> March 2019

# Background

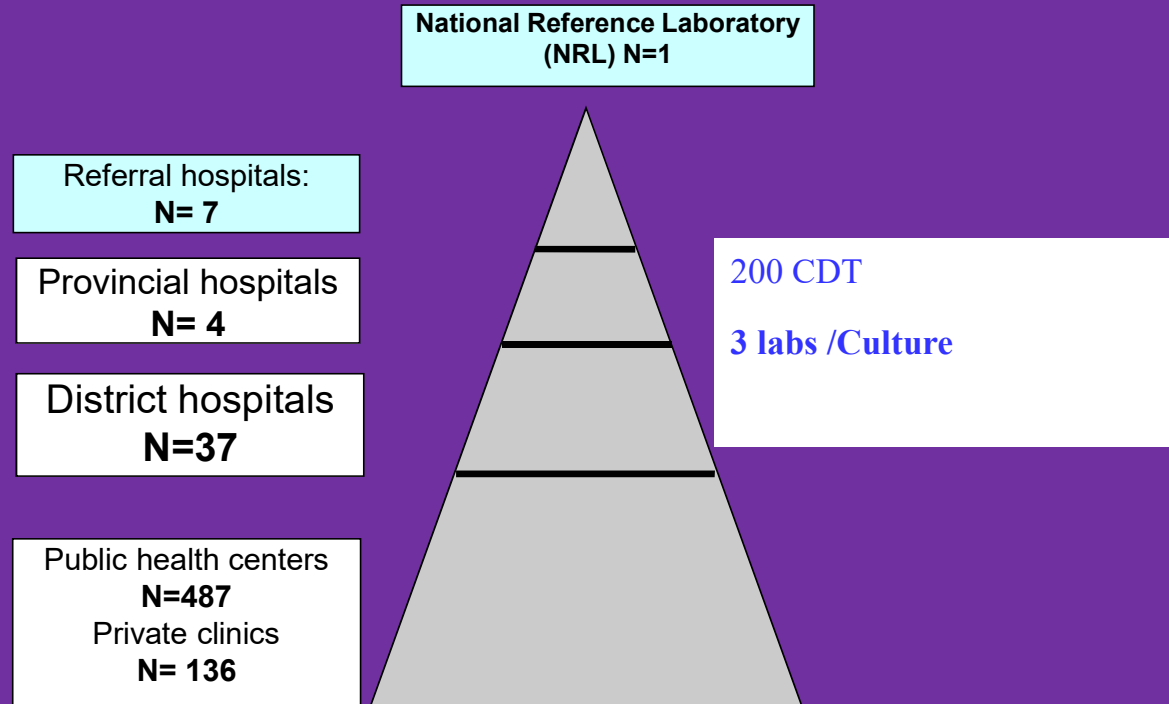
- NRL was established in July 2003.
- NRL oversees, supports and manages the national medical laboratory network, aligned with the national health system.
- NRL works with Tb Division and both are under one institution (Rwanda Biomedical Center)

# Health Facilities and Laboratories in Rwanda

## Health Facilities in Rwanda



## Tiered Lab system in Rwanda



# TB Diagnostic 1/2

- In Rwanda we have 200 CDT which include
  - Health Centers
  - District Hospitals
  - Referral Hospitals.
- ✓ All CDT use fluorescence microscopy.
  
- Culture is performed at NRL, CHUK and CHUB using **solid and liquid culture**
  
- DST 1<sup>st</sup> and 2<sup>nd</sup> line are performed only at NRL.

## TB Diagnostic 2/2

- (Line Probe Assay) LPA is performed at NRL,
- CHUK and CHUB for 1<sup>st</sup> line
- Hence NRL for 2<sup>nd</sup> line.
- All hospitals and 19 HCs are equipped with GeneXpert machine.

# Sample transportation System

- **Primarily sample collection** : Collected from CTs and sent to the nearest CDT for microscopy or to be referred for Xpert testing,
- Samples are also collected from CDTs then, using motorbike sent to the hospitals for Xpert testing or to be sent at NRL for culture and DST,
- NRL send vehicles to all hospitals at weekly basis to collect TB samples for culture and DST, as well as distributing results
- On Monthly basis 60-80 are processed at NRL

# Mapping of the sample transportation



## HOSPITALS

Kibogora-Bushenge  
 Byumba -Rutongo-Nyamata  
 Shyira -Rubengeri  
 Gitwe-Kaduha  
 Gakoma-Kabgayi-Nyanza  
 Kiniguro-Gahini  
 Nyagatare-Ngarama  
 Mibilini-Gihundwe  
 Ruli-Nemba  
 Gisenyi-Kabaya  
 Butaro  
 Remera -Rukoma-Muhororo  
 Mugonero-Kirinda  
 Kibuye  
 Murunda  
 Kigeme  
 Musini  
 Kirehe-Kibungo  
 Rwinkwavu-Rwamagana  
 Kibilini-CHUB-Kabutaro



# Moto-cycle Sample transportation CT-CDT-DH





# Sample transportation car



# MURAKOZE -THANK U

