

Introducing the Diagnostic network sub community of practice (DNO Sub CoP)

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- Links together country teams (18) from across Africa with global experts
- Fosters a south-south knowledge exchange and joint learning via sharing of knowledge and best practices of laboratory systems strengthening amongst ministries of health





DNO Sub-CoP

DNO SubCop: What ?

- Collaboration between ASLM and FIND
- Dedicated segment of the ASLM LabCoP

FIND 
Diagnosis for all

ASLM
AFRICAN SOCIETY FOR LABORATORY MEDICINE

“DNO sub-CoP gathers country teams (laboratorians, clinicians & representatives from ministries of health who support DNO activities in their country) and stakeholders (implementing partners, regulatory and technical agencies) to share challenges, solutions and best practices on optimizing their diagnostic network”



DNO Sub-CoP

DNO SubCop: Why ?

- Many tools, software and strategies for DNO
- Need to identify most suitable approaches & most critical use cases.
- Countries and experts rolling-out DNO tools can align their thinking and knowledge for increased effectiveness and impact of DNO.
- Improve the uptake and the quality of DNO processes in LabCoP countries to promote data driven investments for effective laboratory networks optimization

DIAGNOSTIC NETWORK OPTIMIZATION:

A network analytics approach to
design patient-centred and
cost-efficient diagnostic systems

Key steps involved in DNO

Definition of the
scope and the
alignment of
stakeholders

Collection,
mapping, and
spatial analysis of
data

Selection of
scenarios to
model and
optimize the
network

Implementation
of changes and
monitoring of
associated impact

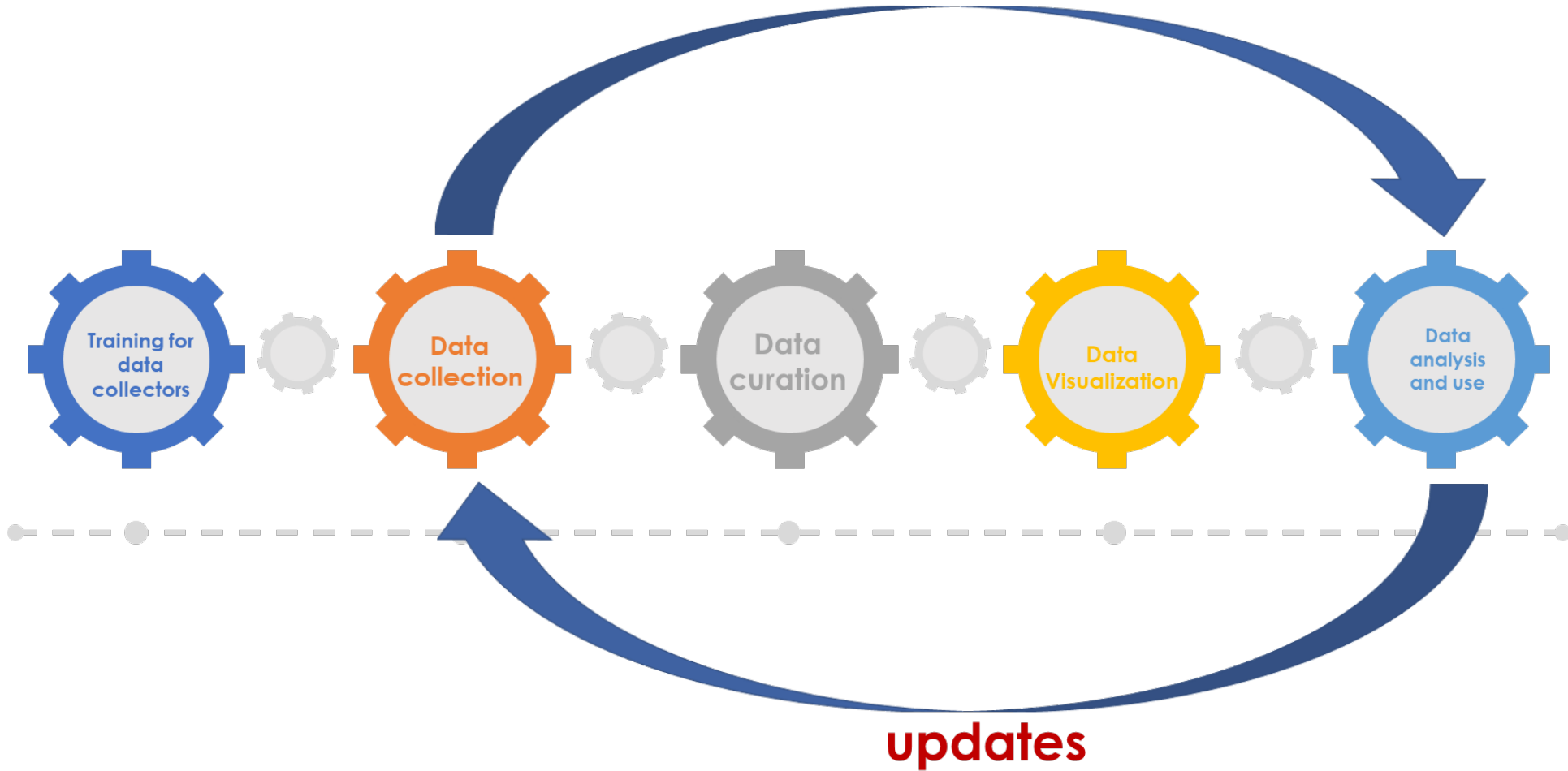
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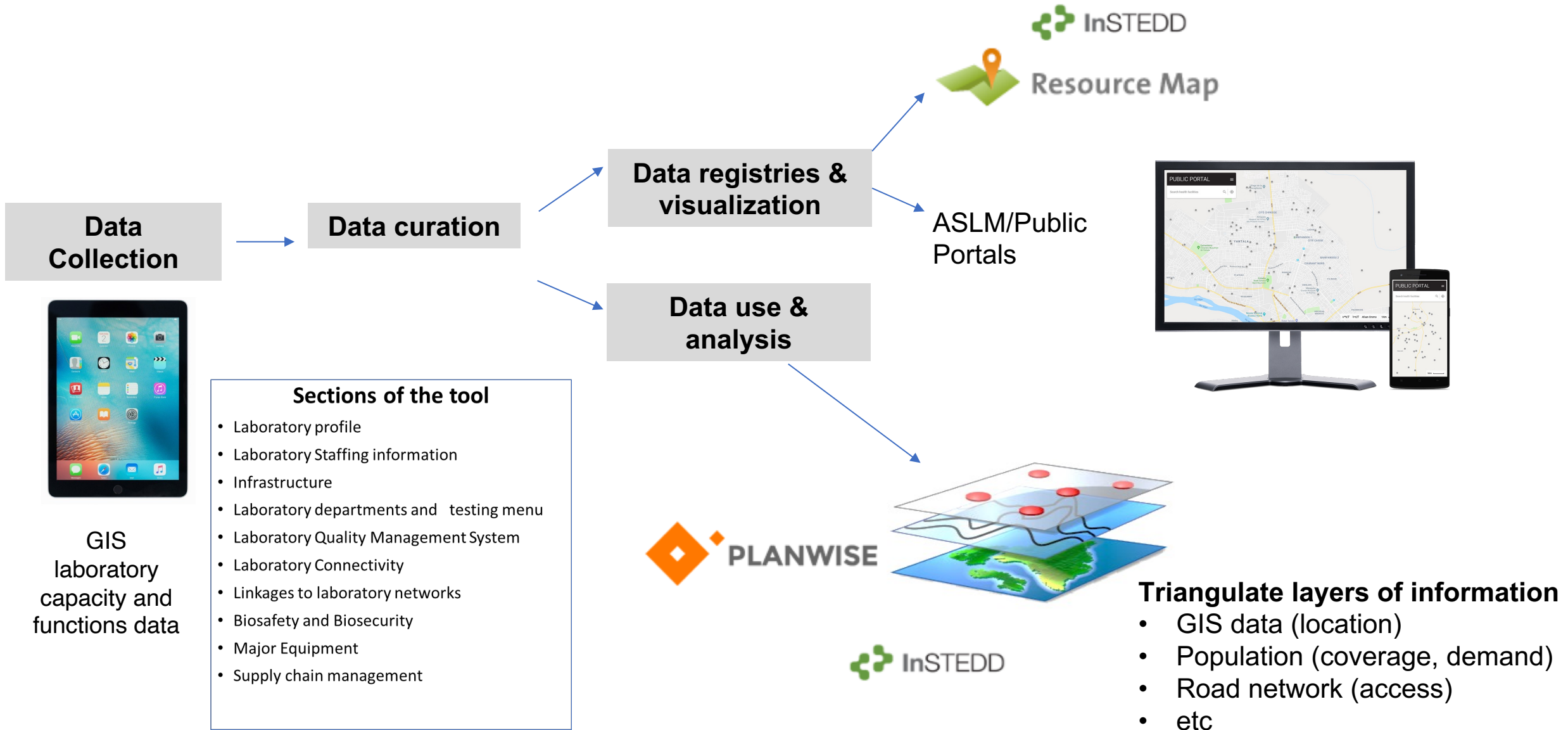
Protocol Services Department
Telephone 0115 182580/256(252) Fax N° 0115 182579 P. O. Box 3243 Addis Ababa, ETHIOPIA

Référence: BC/PRO/42-265.19

La Commission de l'Union Africaine présente ses compliments aux **Autorités de l'Immigration de la République Gabonaise à Libreville** et a l'honneur de solliciter l'émission des visas à l'arrivée au profit des participants du « *Training Workshop on Strengthening Laboratory Mapping and Quality Systems* » qui se tiendra à Libreville, Gabon du 25 au 30 mars 2019:



Data flow



Roles and responsibilities



ASLM support

- Country engagement
- Data collection training

- Data cleaning & re-sharing with countries

- Data analysis and utilization training
- Data registries in **resource map**
- Data migration to **public portal**

Country

- Designate a LabMap focal person(s)
- Data collection (baseline/ updates)

- Data cleaning
- Updates for resource map

- Hosting of public portal and resource map
- Designate a data administrator
- Determine use cases for data (ie: export, linkage, analysis)

Current status

Country	Training of Collectors Done	Collection started /level3/level2/level1	Curation done	Resource Map	Training on LabMap Data Analysis and Utilization	Laboratory Portal ready for data uploads	Data uploaded in the Laboratory Portal
Burkina Faso	● Yes	● Yes	● Yes	● Yes	● Yes	● Yes	● Yes
Burundi	◆ No	● N/A	● N/A	● N/A	◆ No	● N/A	● N/A
Cameroon	● Yes	● Yes	● Yes	● Yes	● Yes	● Yes	● Yes
Central African Republic	● Yes	● Yes	● Yes	● Yes	◆ No	● Yes	◆ No
Chad	● Yes	● Yes	● Yes	● Yes	◆ No	● Yes	◆ No
Democratic Republic of the Congo	● Yes	● Yes	● Yes	● Yes	● Yes	● Yes	● Yes
Equatorial Guinea	● Yes	◆ No	● N/A	● N/A	◆ No	● N/A	● N/A
Ethiopia	● Yes	● Yes	● Yes	● Yes	◆ No	● Yes	● Yes
Gabon	● Yes	● Yes	● Yes	● Yes	◆ No	● Yes	◆ No
Guinea	● Yes	● Yes	● Yes	◆ No	◆ No	● Yes	◆ No
Malawi	● Yes	● Yes	● Yes	● Yes	◆ No	● Yes	◆ No
Mali	● Yes	● Yes	◆ No	◆ No	◆ No	● Yes	◆ No
Niger	● Yes	● Yes	● Yes	● Yes	◆ No	● Yes	◆ No
Republic of the Congo	● Yes	● Yes	● Yes	● Yes	◆ No	● Yes	◆ No
São Tomé and Príncipe	● Yes	● Yes	● Yes	◆ No	◆ No	● Yes	◆ No
Senegal	● Yes	◆ No	● N/A	● N/A	◆ No	● N/A	● N/A
Zambia	● Yes	● Yes	● Yes	● Yes	◆ No	● Yes	◆ No
Zimbabwe	● Yes	● Yes	● Yes	● Yes	◆ No	● Yes	◆ No


Data use and analysis

 Topography, Road network

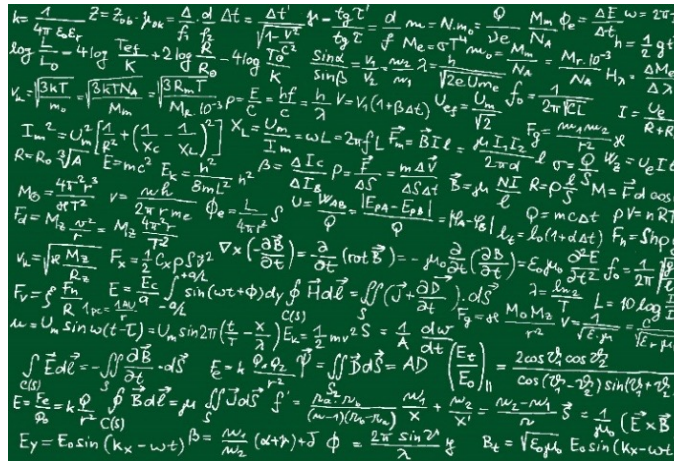
 + Population

 + Disease Prevalence

 X Budget

 \sum Lab Capacity

Algorithm



Optimized network configuration for Universal health coverage and International health regulations



“What if ?” scenario vs unmet needs

Key steps

Definition of the scope and the alignment of stakeholders

Collection, mapping, and spatial analysis of data

Selection and development of scenarios to model and optimize the network

Implementation of changes and monitoring of associated impact

Problem statement:

“Laboratory networks in Africa do not effectively deliver services for clinical (UHC) and public health (IHR) functions.

Diagnostic services in Africa are generally not equitably available or accessible to the population. Investments for optimizing laboratory networks in a context of limited resources are lacking or not driven by context relevant and geo-localized (GIS) data on laboratory capacity.”

Reimagining PEPFAR's Strategic Direction

Fulfilling America's Promise to End
the HIV/AIDS Pandemic by 2030

SEPTEMBER 2022

“Strengthen the capacity of regional and national public health institutions by improving their leadership and management in.. data collection and management, and laboratory systems..”



World Health
Organization

REGIONAL OFFICE FOR
Africa

AFR/RC72/8

7 July 2022

ORIGINAL: ENGLISH

REGIONAL COMMITTEE FOR AFRICA

Seventy-second session

Lomé, Republic of Togo, 22–26 August 2022

Provisional agenda item 11

REGIONAL STRATEGY FOR HEALTH SECURITY AND EMERGENCIES 2022–2030

Identify gaps for evidence-led planning

“Gap identification will be conducted using ...relevant assessments...which will form the basis for planning”

Information Note Resilient and Sustainable Systems for Health (RSSH)

Allocation Period 2023-2025

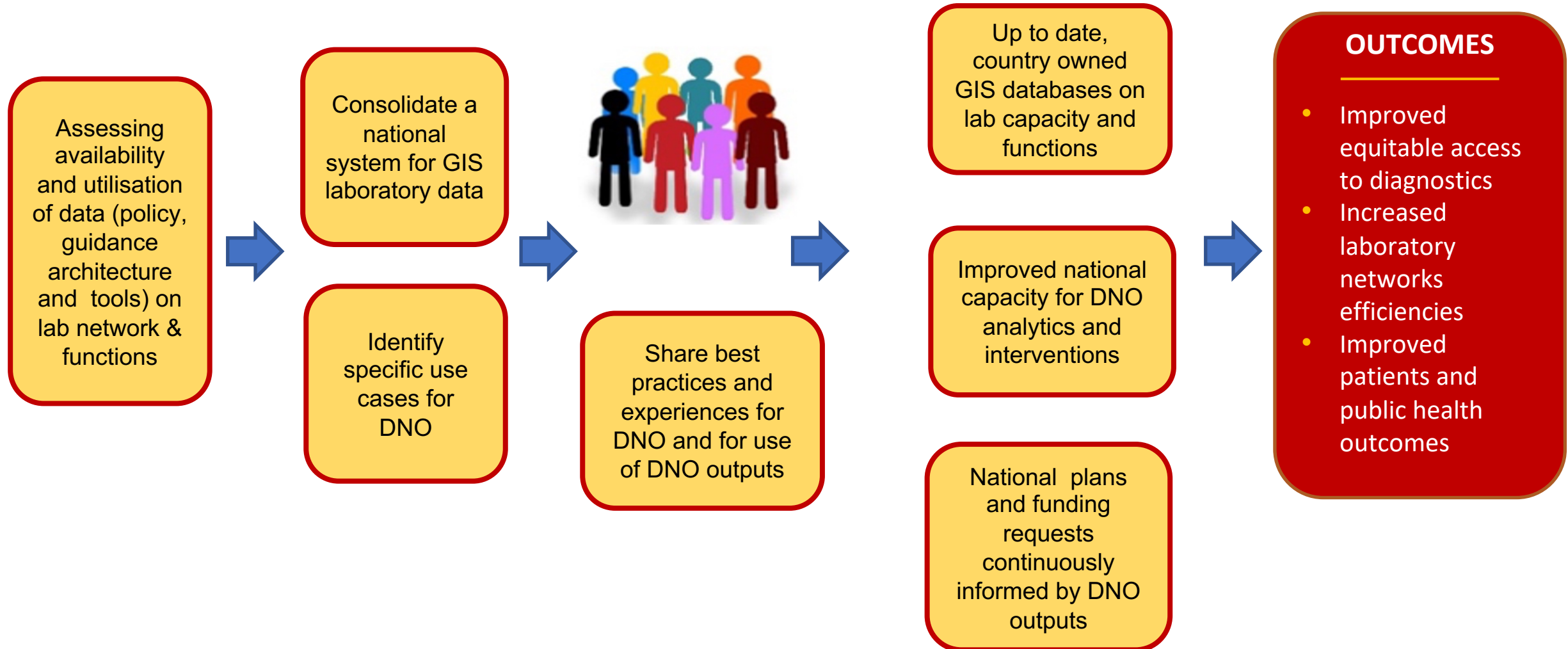
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“Routinely conduct integrated DNO/assessment exercises to increase efficiency and effectiveness of laboratory networks and systems & inform investments”

DNO Subcop Theory of action

Aim: TO PROMOTE DATA DRIVEN INVESTMENTS FOR EFFECTIVE LABORATORY NETWORKS OPTIMIZATION



The DNO ecosystem in Africa



High level AU endorsement
Nationally owned and collected data
Routinely updated



Others



Etc...

Use of analysis and modelling outputs
to guide planning and decision making
for lab networks and systems



DNO Sub-CoP

The way forward:

Define required expertise within country teams:

- Data managers
- Modellers/analysts
- Health data and statistics division
- Others ?



The way forward:

Leverage ongoing activities to strengthen lab networks & systems

1. Mapping



3. Country level activities

NEDL

Viral load cascade

TB Dx expansion

AMR surveillance

Etc..

4. Define use cases for DNO

Access ?

Coverage ?

Integration?

Sample referral

Others?

5. Evidence based work plans for funding



2022 Annual meeting



Etc..

2. Gap/maturation assessments



Viral Load self assessment

Etc..



Thank you

ASLM LabMap team (Instedd, Resolve to Save lives)

ASLM LabCop Team

ASLM/ FIND DNO project teams

AU/Africa CDC

<https://aslm.org/what-we-do/labcop/dno-sub-cop/>