Role of digital technology in reaching elimination in NTDs

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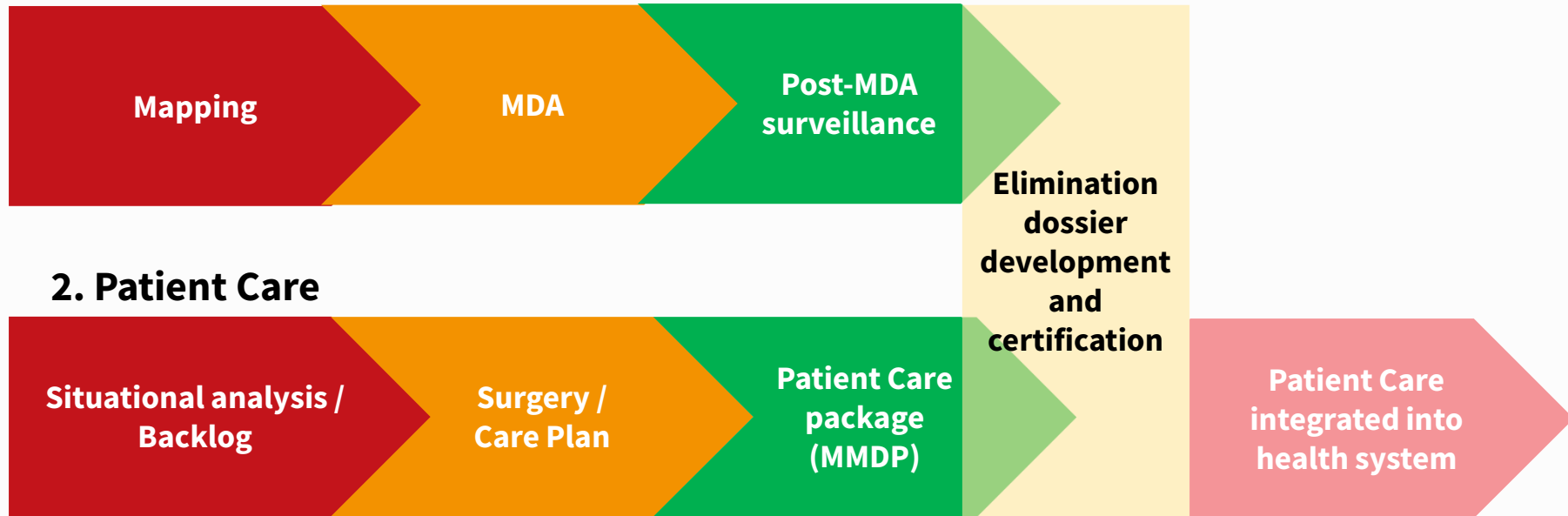
Dr. Babar Qureshi
Director
Inclusive Eye Health Initiative
CBM

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Strategies for Elimination of NTDs

1. Mass Drugs Administration (MDA)

Mapping	MDA	Post-MDA surveillance

2. Patient Care

Situational analysis / Backlog	Surgery / Care Plan	Patient Care package (MMDP)

Elimination dossier development and certification

Patient Care integrated into health system

NTD programme phases

Mapping

Health promotion & education

MDA
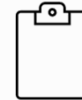
Surveys

Patient tracking

Disease detection

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Digitalisation of NTD programmes

Mapping phase

Apps:

LINKS (NTD Mapping Tool from NTD Support Center), other mapping tools.

NEGLECTED TROPICAL DISEASES SUPPORT CENTER
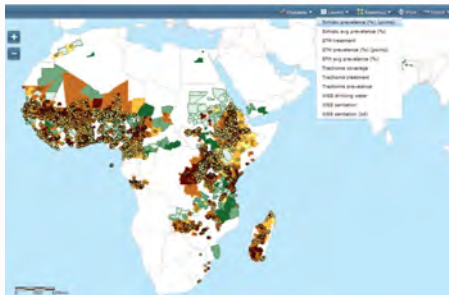
Digitalisation:

- Visualize the geographical distribution of NTDs;
- Identifying priority areas requiring mass drug administration;
- Identifying areas for co-implementation of control activities;
- To visually explore the relationship between NTDs and water and sanitation;
- Tracking progress in NTD control.

Digitalisation of NTD programmes

Education & Health Promotion

Apps:

Audio Pedia

Digitalisation

- Open-source solution providing accessible knowledge in localized & easy-to-understand language across the globe (push & pull)

- Technical framework allows for customization to contextual needs such as ICT infrastructure, cultural specifics and target groups

- Applies Digital Principles for Development

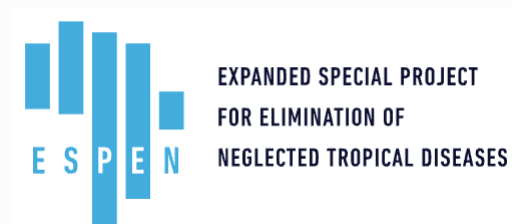# Digitalisation of NTD programmes

MDA phase

Apps:

ESPEN Collect; Supervisors' Coverage Tool (SCT); mHealth applications

EXPANDED SPECIAL PROJECT FOR ELIMINATION OF NEGLECTED TROPICAL DISEASES

Digitalisation

- Data Collection
- Monitoring of MDA

Digitalisation of NTD programmes

Surveys phase

Apps:

ESPEN Collect; Tropical Data; Other tailored data management tools (eg Kobo Collect, EpiCollect, Commcare, etc), with GIS technology.

Digitalisation:

EXPANDED SPECIAL PROJECT
FOR ELIMINATION OF
NEGLECTED TROPICAL DISEASES

ESPEN Collect:
- Free mobile data collection tool for the national programs, NGOs, partners.
- Designed to collect data for the Preventive Chemotherapy NTDs LF / Oncho / SCH / STH.
    - coverage surveys,
    - impact surveys,
    - epidemiologic and entomologic surveys
    - transmission assessment surveys.

 TROPICAL DATA

Tropical Data: Support of **Trachoma** programmes through the full survey process

Digitalisation of NTD programmes

Patient tracking phase

<u>Apps:</u>

TT Tracker; Hydrocele Tracker

<u>Digitalisation:</u>

TT Tracker: Helps surgeons, assistants and supervisors to collect and analyze information about TT surgery and performance.

Hydrocele Tracker: Identical to TT Tracker, developed for hydrocele patients care

Digitalisation of NTD programmes

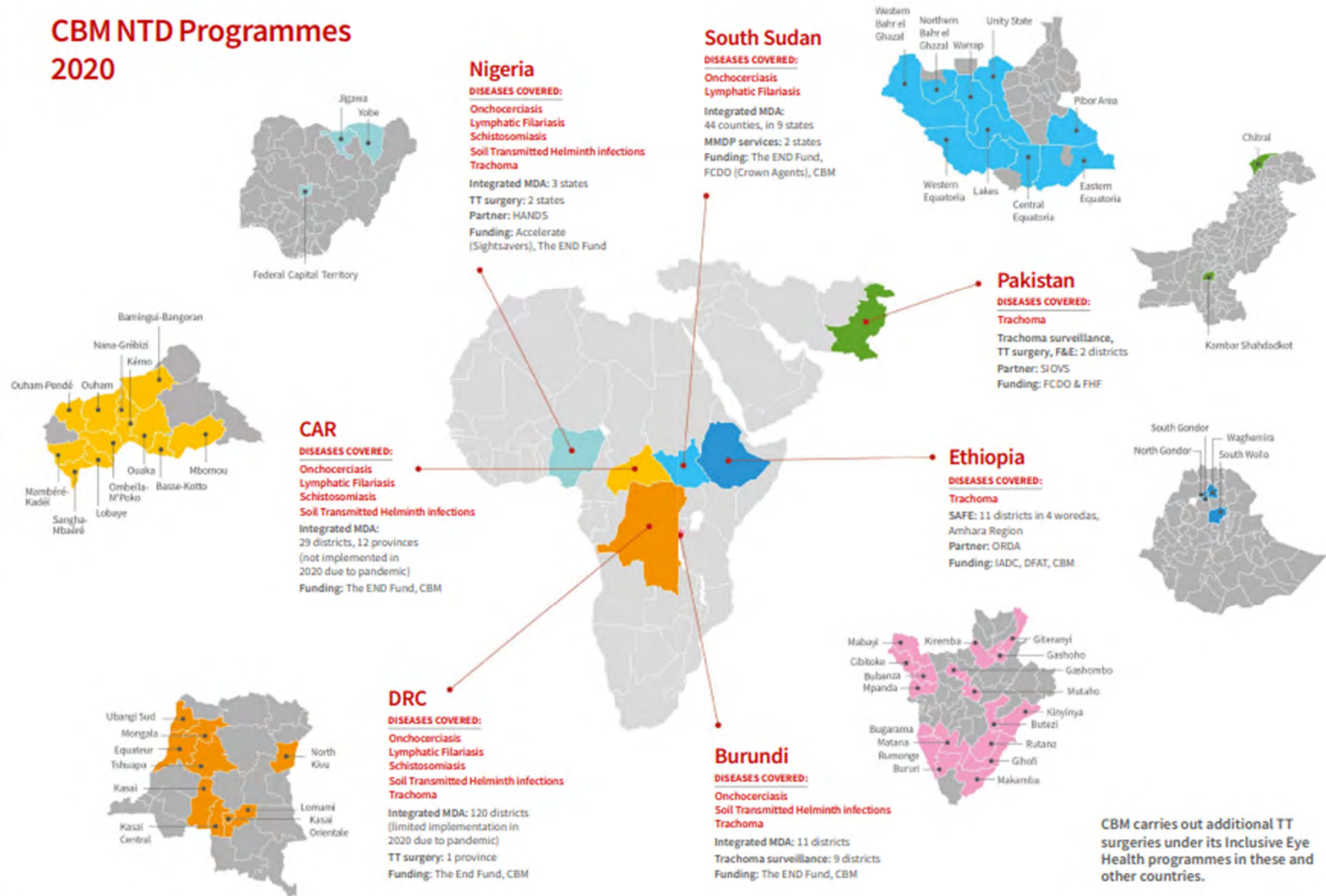**Disease detection phase**

Apps:

Skin App

Digitalisation:

Supports and empowers front-line health workers in the recognition of the early signs and symptoms of skin diseases

SkinApp
A mobile health tool by NLR

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CBM NTD Programmes 2020

Nigeria
DISEASES COVERED:
Onchocerciasis
Lymphatic Filariasis
Schistosomiasis
Soil Transmitted Helminth infections
Trachoma
Integrated MDA: 3 states
TT surgery: 2 states
Partner: HANDS
Funding: Accelerate (Sightsavers), The END Fund

Jigawa
Yobe
Federal Capital Territory

South Sudan
DISEASES COVERED:
Onchocerciasis
Lymphatic Filariasis
Integrated MDA:
44 counties, in 9 states
MMDP services: 2 states
Funding: The END Fund, FCDO (Crown Agents), CBM

Western Bahr el Ghazal
Northern Bahr el Ghazal
Warrap
Unity State
Pibor Area
Western Equatoria
Lakes
Central Equatoria
Eastern Equatoria

Chitral
Kambar Shahdadkot

Pakistan
DISEASES COVERED:
Trachoma
Trachoma surveillance, TT surgery, F&E: 2 districts
Partner: SIOVS
Funding: FCDO & FHF

CAR
DISEASES COVERED:
Onchocerciasis
Lymphatic Filariasis
Schistosomiasis
Soil Transmitted Helminth infections
Integrated MDA:
29 districts, 12 provinces (not implemented in 2020 due to pandemic)
Funding: The END Fund, CBM

Bamingui-Bangoran
Nana-Grébizi
Kémo
Ouham-Pendé
Ouham
Mambéré-Kadéï
Sangha-Mbaéré
Lobaye
Ouaka
Ombella-M'Poko
Basse-Kotto
Mbomou

Ethiopia
DISEASES COVERED:
Trachoma
SAFE: 11 districts in 4 woredas, Amhara Region
Partner: ORDA
Funding: IADC, DFAT, CBM

South Gondor
North Gondor
Waghemira
South Wollo

DRC
DISEASES COVERED:
Onchocerciasis
Lymphatic Filariasis
Schistosomiasis
Soil Transmitted Helminth infections
Trachoma
Integrated MDA: 120 districts (limited implementation in 2020 due to pandemic)
TT surgery: 1 province
Funding: The End Fund, CBM

Ubangi Sud
Mongala
Equateur
Tshuapa
Kasai
Kasai Central
North Kivu
Lomami
Kasai Orientale

Burundi
DISEASES COVERED:
Onchocerciasis
Soil Transmitted Helminth infections
Trachoma
Integrated MDA: 11 districts
Trachoma surveillance: 9 districts
Funding: The END Fund, CBM

Mabayi
Kirundo
Giteranyi
Cibitoke
Gashoho
Bubanza
Gashombo
Mpanda
Mutaho
Kinyinya
Butezi
Bugarama
Matana
Rutana
Rumonge
Gihofi
Bururi
Makamba

CBM carries out additional TT surgeries under its Inclusive Eye Health programmes in these and other countries.

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Use of digital tools in selected countries-select examples

Programme Phase	Digital Tools	Application at the Country-Level		
		RSS	Nigeria	DRC
Mapping	Tropical Data, LINKS	Through techincal partners	Through technical partners	With WHO support & MOH
Mass Drug Administration	ESPEN Collect	Through technical partners	Through technical partners	Not applied
	Supervisors' Coverage Tool (SCT)	Not applied	Through technical partners	Not applied
	mHealth applications	Not applied	Through technical partners	Not applied
Epidemiological surveillance surveys	ESPEN Collect	Through technical partners	Through technical partners	Not applied
	Tropical Data	Through technical partners	Through technical partners	ESPEN & MOH
	Other tailored data management tools (Kobo Collect, EpiCollect, Commcare, etc.) with GIS technology	Through technical partners	Through technical partners	Through technical partners
Patient tracking	TT Tracker	Not applied	Through technical partners	Not applied
	Hydrocele tracker	Not applied	Not applied	Not applied
Disease detection	SkinApp	Not applied	Not applied	Not applied

Opportunities through digitalisation of processes

- Increased effectiveness and efficiency of health programmes;
- Increasing capacity (infrastructure, HR) on health programme management;
- Including all countries on progressing to elimination of NTDs through upscaled digitalisation;
- Identifying and including <u>all</u> affected persons in patient care programmes.

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