SESSION 2: BUILDING RESILIENT HEALTH SYSTEMS THROUGH STRONGER INSTITUTIONS AND WORKFORCE TO DELIVER THE EPHFs

Moderated by Dr. Theresa Tam & Prof. Neil Squires

IANPHI
ANNUAL MEETING
FEBRUARY 7-8, 2024 I KIGALI, RWANDA

HOSTED BY rbc Rwanda Biomedical Centre
Healthy People, Wealthy Nation

Dr. Sohel Saikat,
Senior advisor, lead

Health Systems Resilience and Essential Public Health Functions,

Special Programme on Primary Health Care | UHC & Life Course Division,

World Health Organization

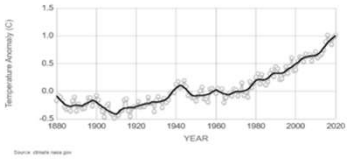
EPHFs AS COMPREHENSIVE APPROACH TO STRENGTHENING PUBLIC HEALTH AND SERVICES

Complex stressors & demands on the health system

SDGs

Globalization

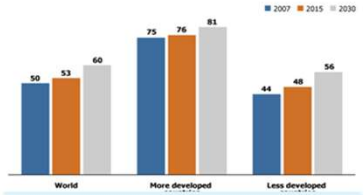
Conflict and war



Climate change

Infectious disease outbreaks

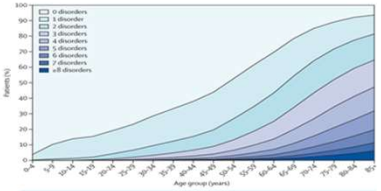
Innovation



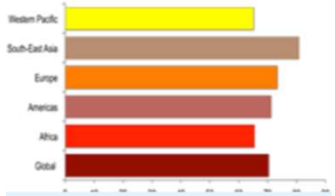
Urbanization

Refugees, IDPs and Migration

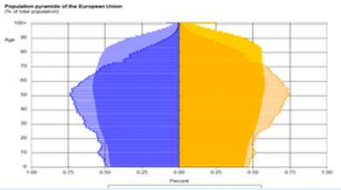
Antimicrobial Resistance



Multi-morbidity including NCDs

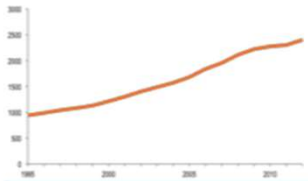


Civic voice

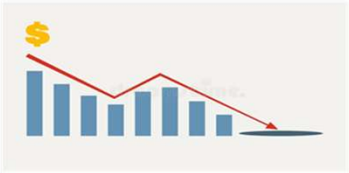


Aging populations and youth

Gender & inequality



Rising costs



Economic recessions

Chronic under-investment / under-prioritization of public health

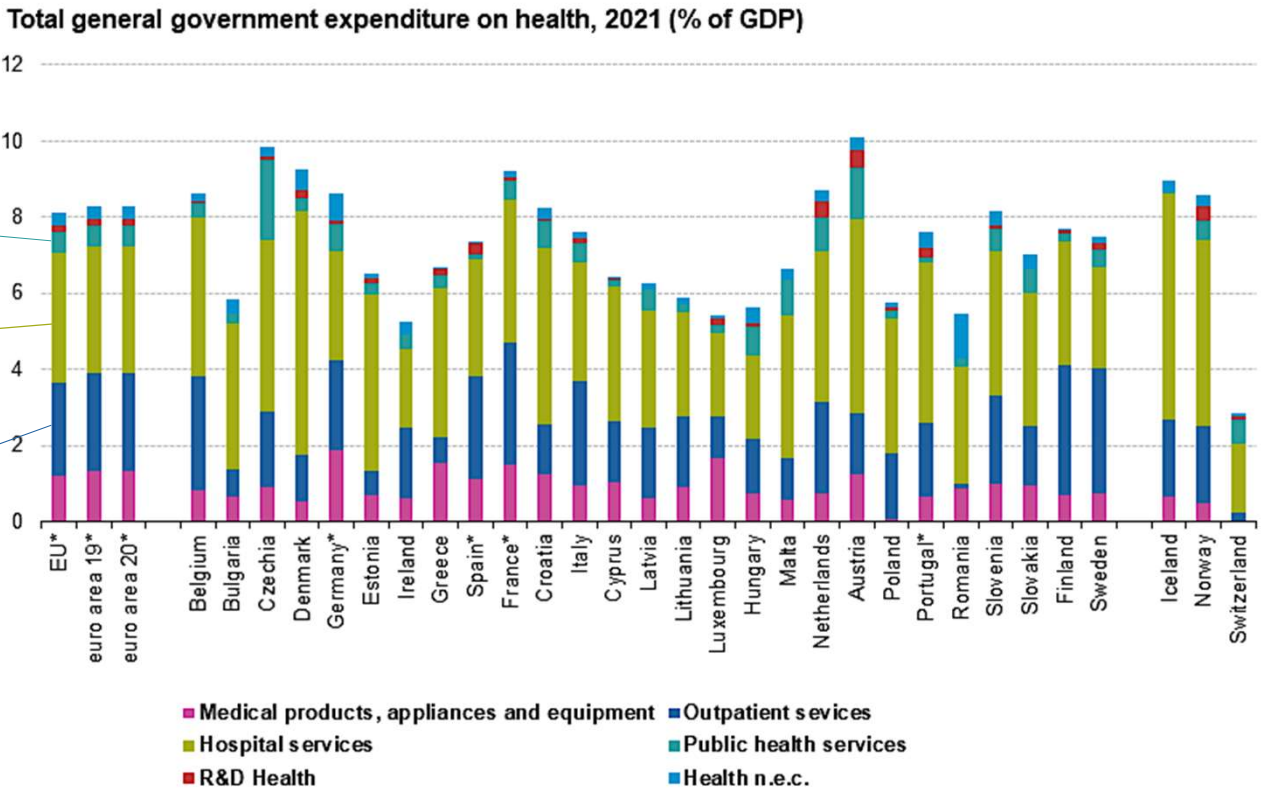
Example: a snapshot of situation of government expenditure on health in EU

EU average:

public health services:
~0.6% of GDP

hospital services:
~3.4% of GDP

outpatient services:
~2.5% of GDP

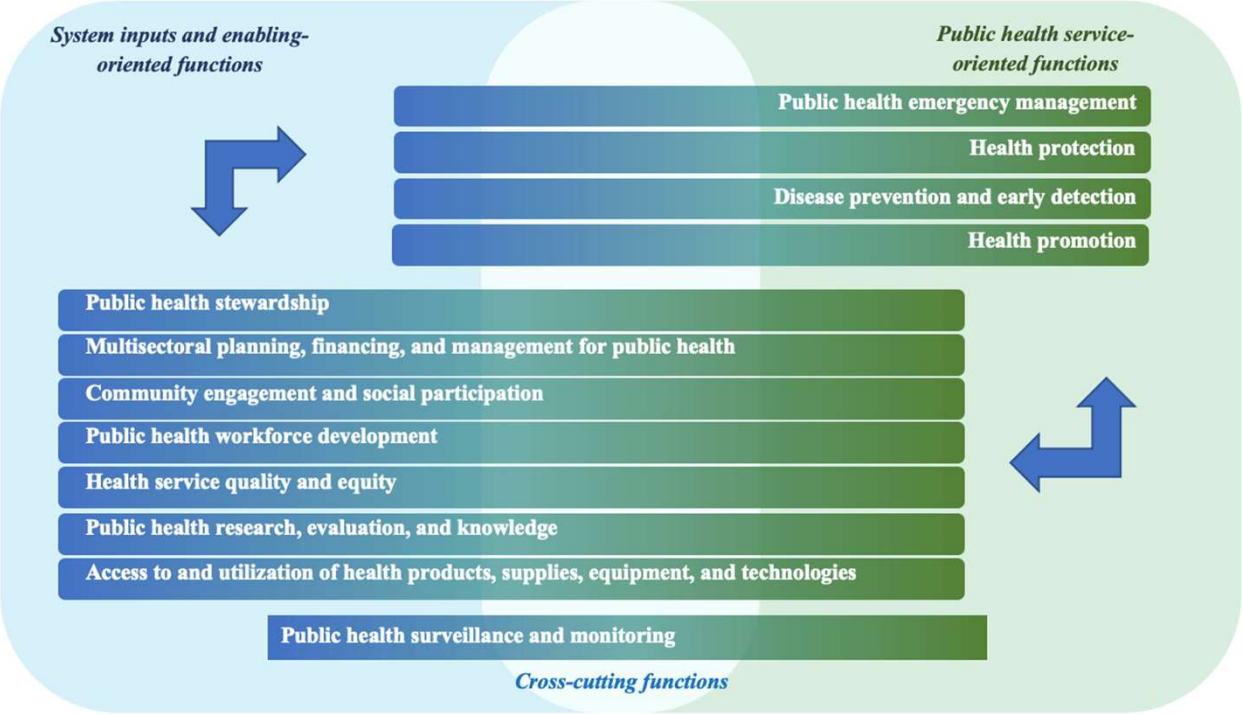


Source: Eurostat. [Government expenditure on health - Statistics Explained (europa.eu)]

Unified list of Essential Public Health Functions

The essential public heath functions

- are a set of fundamental, interconnected and interdependent activities, that are required to ensure effective public health action
- prevent disease, promote and protect health and wellbeing, and address broad determinants of health

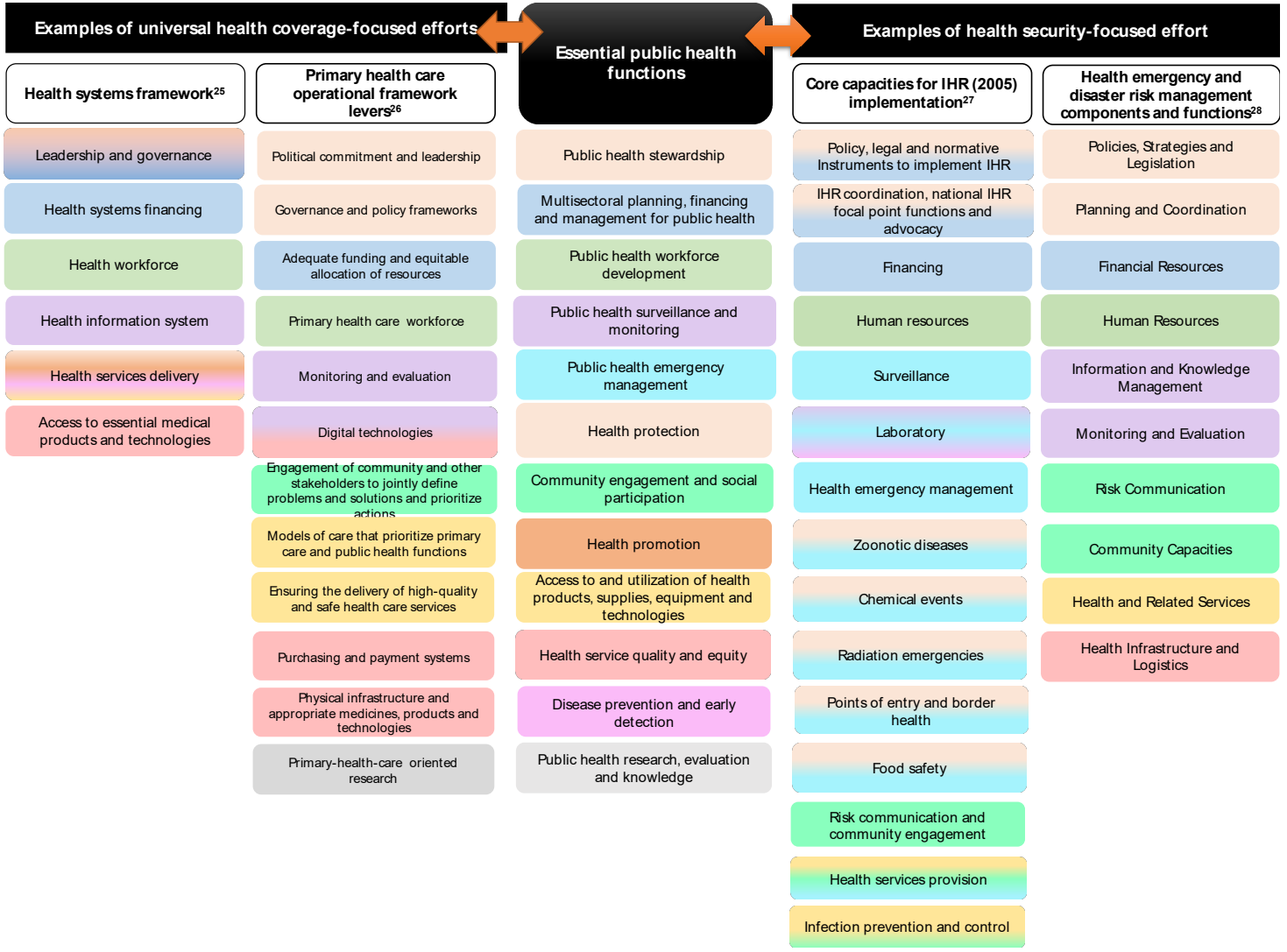


Key Characteristics:

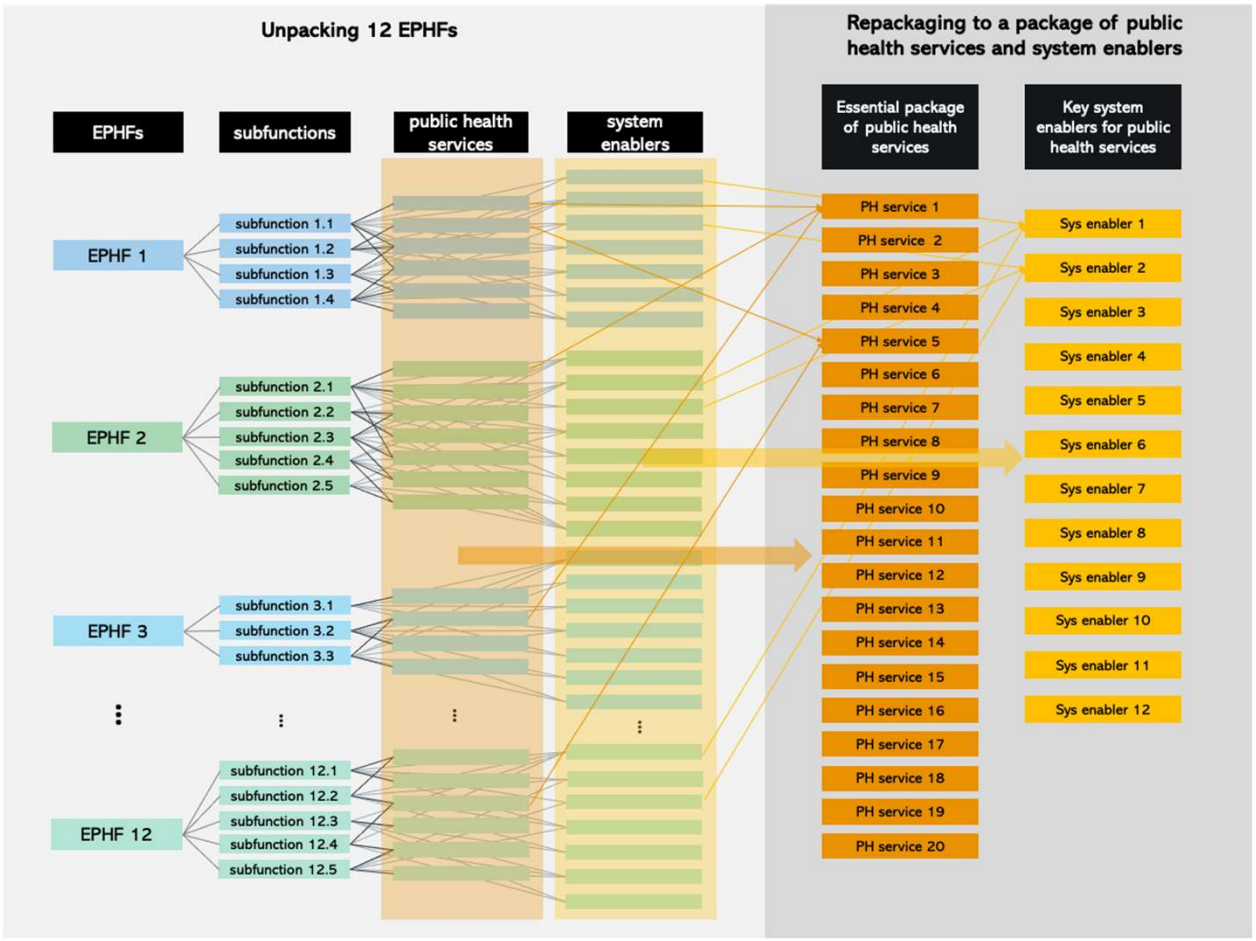
- Ensures a comprehensive approach to public health
- Adaptable to different contexts
- Includes service oriented and enabling functions
- Recognizes the need for intersectoral action
- Addresses wider determinants
- Promotes health systems resilience
- Aligned with UHC and health security efforts

Conceptual complementarity of EPHFs to achieving UHC and health security

- Applying EPHFs is **NOT a competing agenda**.
- An integrated approach is needed to **align efforts** towards different objectives and make **best use of often-limited resources**.

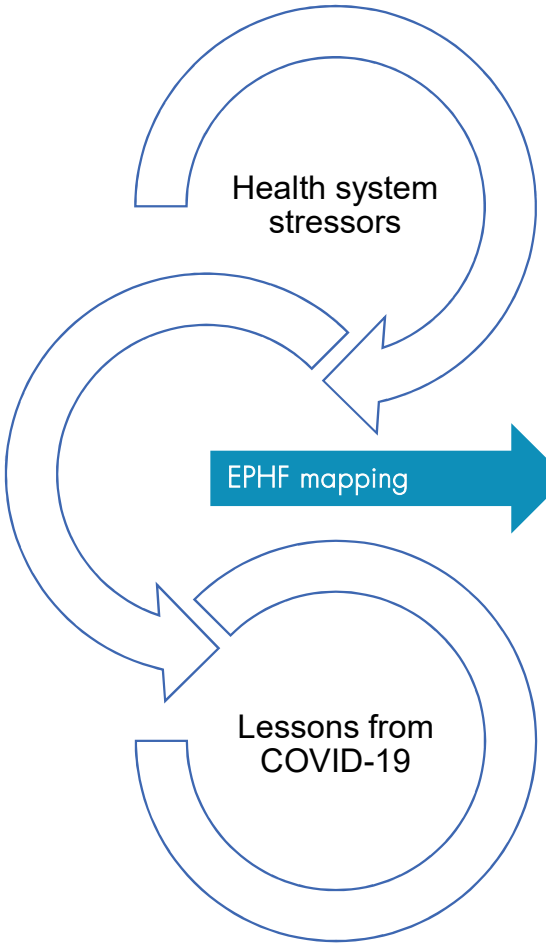


Unpacking 12 EPHFs and defining public health services towards operationalization



Essential package of 20 public health service and 12 system enablers to support country level operationalization

Country application: strategic review of EPHFs



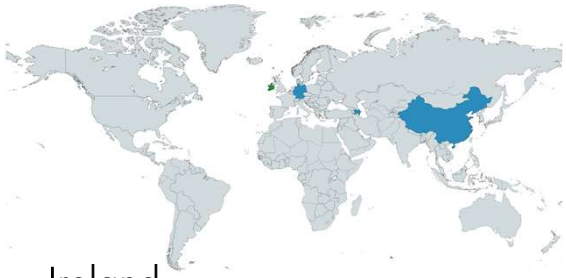
Areas	Example questions for mapping and identifying opportunities for improvement
Policy and planning	What are the key policies and strategies that support the EPHFs in countries?
Inputs and infrastructure	What are the inputs and infrastructure that supports delivery of the EPHFs?
Service provision	How are services oriented to deliver and maintain EPHFs in all contexts, including climate change threats?
Coordination and integration	What are the mechanisms that support the coordination and integration of EPHFs within the health sector, across sectors, government departments, and at community level?
Learning and M&E	How is monitoring and evaluation of EPHFs integrated or aligned to support unified goals within and outside the health sector?

Recommendations

Strengthened public health stewardship and capacities

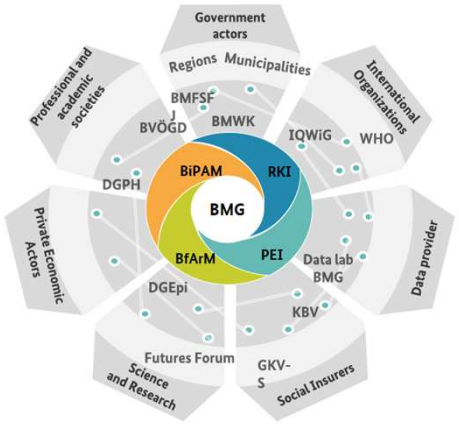
Essential public health functions in Ireland: Perspectives to strengthen public health capacities and stewardship
https://iris.who.int/handle/10665/371252

Country focused EPHF work and dialogue in national public health reform



Germany

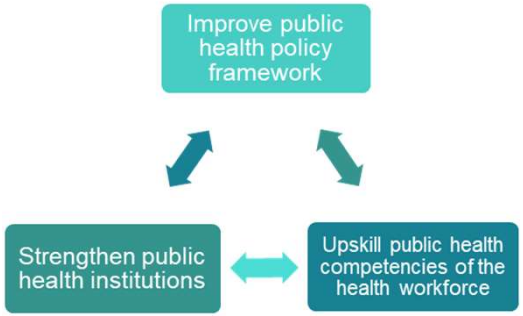
- Dialogue on institutional reform for public health
- fostering a comprehensive approach to public health ensuring linkages to relevant institutions in public health



Azerbaijan

Azerbaijan Pandemic Response (APR) project with a focus on public health strengthening

- Underpinned by EPHF review
- A strategic plan and roadmap for "Strengthening the Public Health System"



China

Seminar on building resilient public health and health care systems to inform policy development in support of high-level national goals

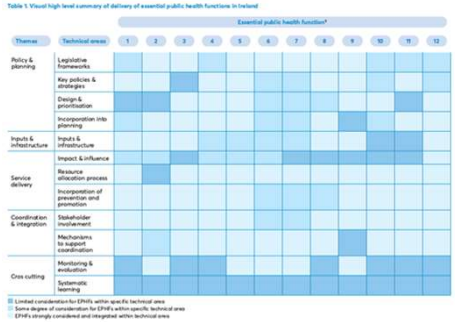
- 14th Five-year-plan for China's social and economic development
- Healthy China 2030 – *promoting health and development*

Ireland

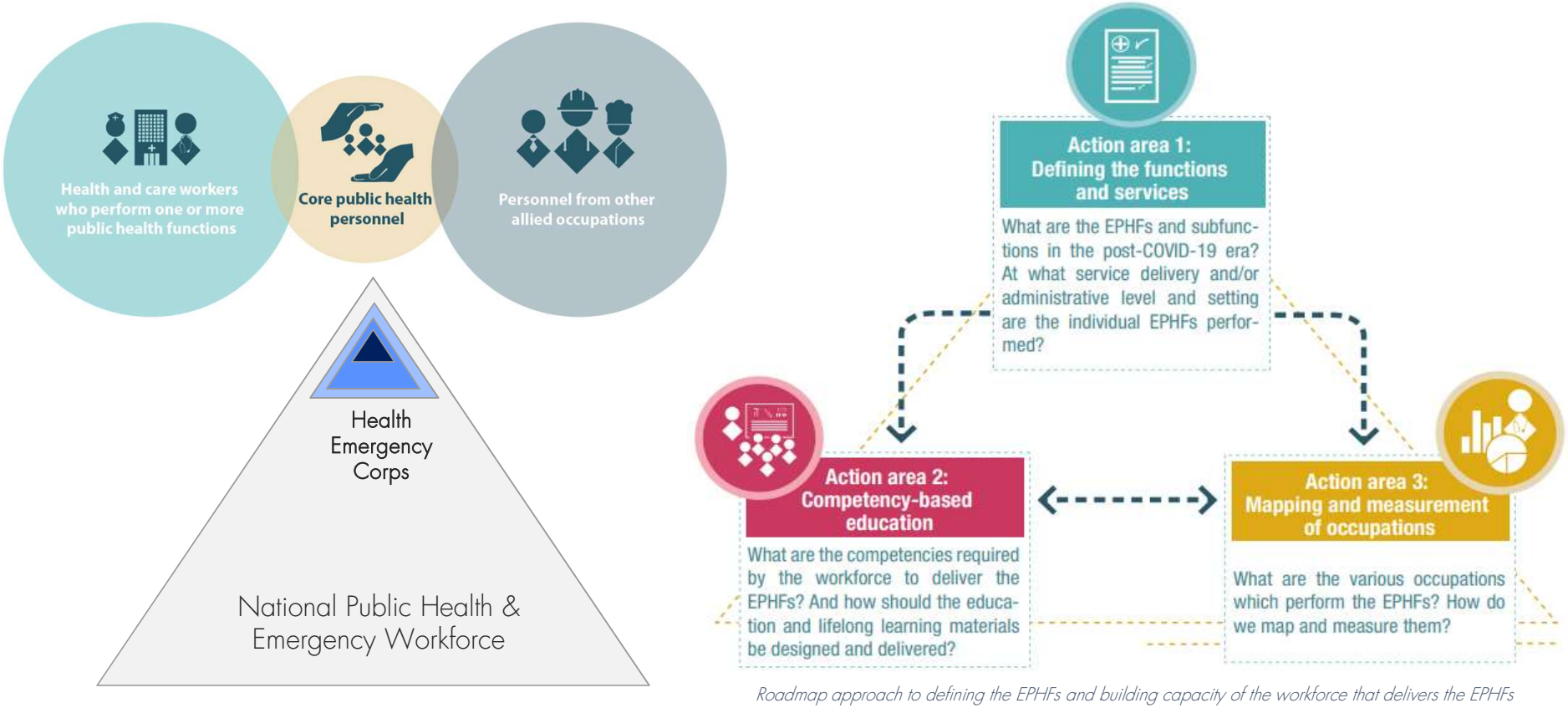
Strategic review of baseline capacities to deliver the EPHFs to inform public health reform.

Recommendations used to:

- Drive strategic shift to prioritize public health
- Solidify political commitment to strengthening public health stewardship
- Promote whole-of-society and government partnership for public health



Public health and emergency workforce roadmap



Roadmap approach to defining the EPHFs and building capacity of the workforce that delivers the EPHFs

Vision: A strengthened workforce in every country; delivering all the essential public health functions including emergency preparedness and response for universal health coverage, health security and improved health and wellbeing

Questions for discussion

What is the role of NPHIs in championing a comprehensive approach to public health based on population health needs and risks?

What are the enablers and barriers for NPHIs to operationalize public health in an integrated and comprehensive way?

Can the unified list and package of essential services be used to strengthen the role of NPHIs in delivering comprehensive public health?

How can WHO, IANPHI and partners provide impactful advocacy to support countries in embracing comprehensive public health?

ESSENTIAL PUBLIC HEALTH FUNCTIONS, HEALTH SYSTEMS, AND HEALTH SECURITY
Developing conceptual clarity and a WHO roadmap for action
21ST CENTURY HEALTH CHALLENGES
Can the essential public health functions make a difference?
Discussion Paper
Essential public health functions in Ireland
WHO POSITION PAPER
Building health systems resilience for universal health coverage and health security during the COVID-19 pandemic and beyond
Health service continuity planning for public health emergencies
A handbook for health facilities
Interim version for field testing
National workforce capacity to implement the essential public health functions including a focus on emergency preparedness and response
Roadmap for aligning WHO and partner contributions
Resilience through Integrated Health Systems Strengthening
Health systems resilience toolkit
Regional landscape of national public health institutions in Africa
and their role, scope and capacity in supporting health systems resilience
Off-the-shelf exercise handbook
Health systems resilience exercises

Thank you.

SETTING OUT THE WHO ROADMAP TO BUILD THE PUBLIC HEALTH AND EMERGENCY WORKFORCE AND THE IMPORTANT ROLE THAT NPHIs PLAY

Dr. Khassoum Dialo,
Coordinator for Data,
Evidence and Knowledge
Management, WHO

Public health & emergency workforce to implement the essential public health functions: The Roadmap

Dr. Khassoum Diallo
Health Workforce Department, WHO/HQ
IANPHI Annual Meeting
Feb 7-8, 2024 Kigali, Rwanda

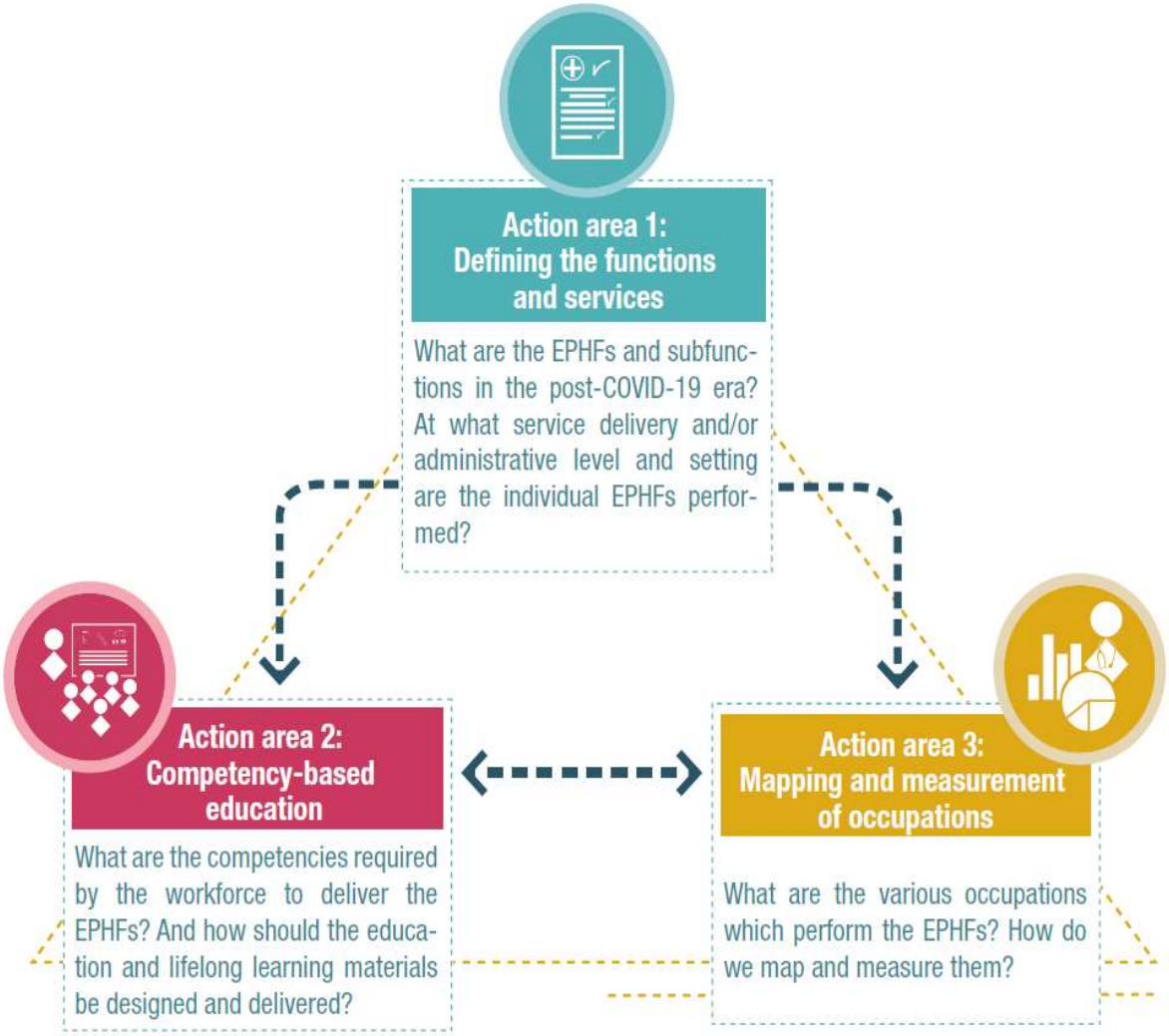
World Health Organization
GOARN Global Outbreak Alert and Response Network
Public Health Institutes of the World IANPHI
TEPHINET Training Programs in Epidemiology and Public Health Interventions Network
FACULTY OF PUBLIC HEALTH
GLOBAL NETWORK FOR ACADEMIC PUBLIC HEALTH
UK Health Security Agency
NHS Health Education England

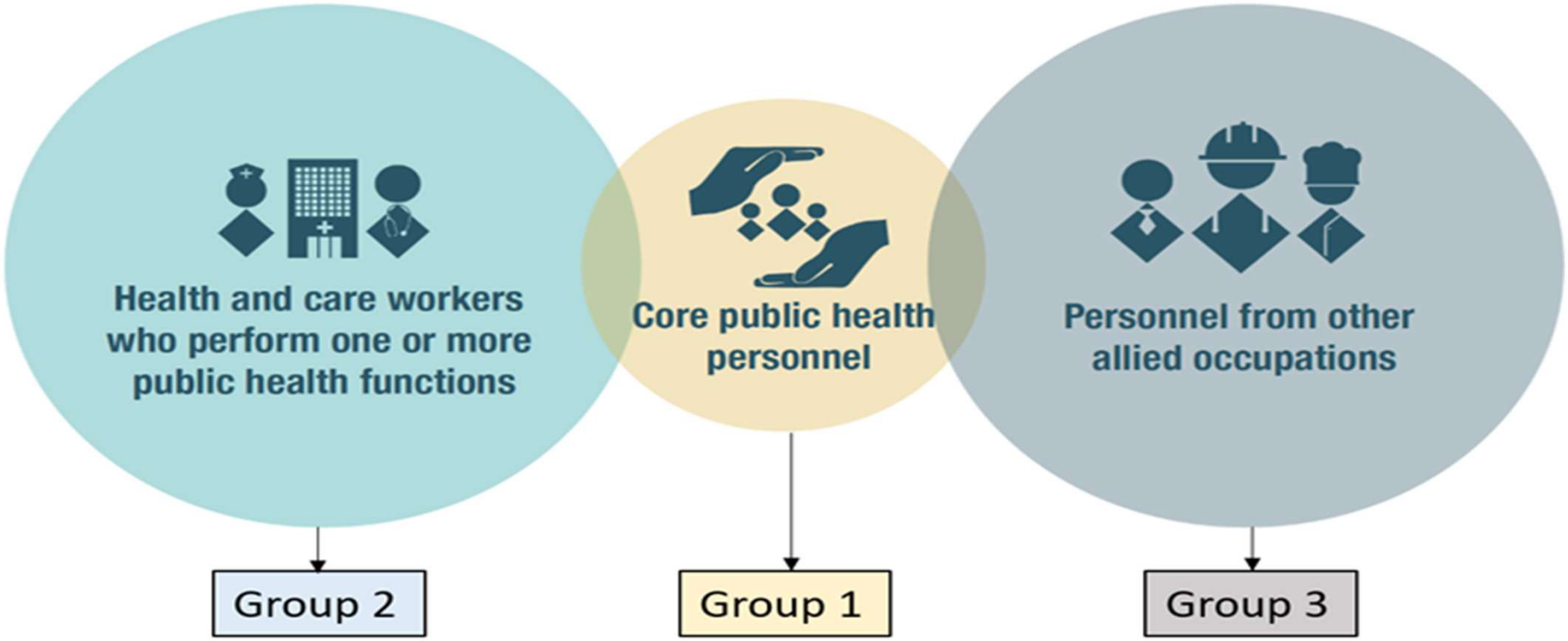
About the Roadmap

- The Public Health and Emergency Workforce Roadmap is led by WHO in partnership with associations, institutions and schools of public health as represented by their respective national, regional and global bodies to bolster national workforce capacity to deliver the essential public health functions (EPHFs).

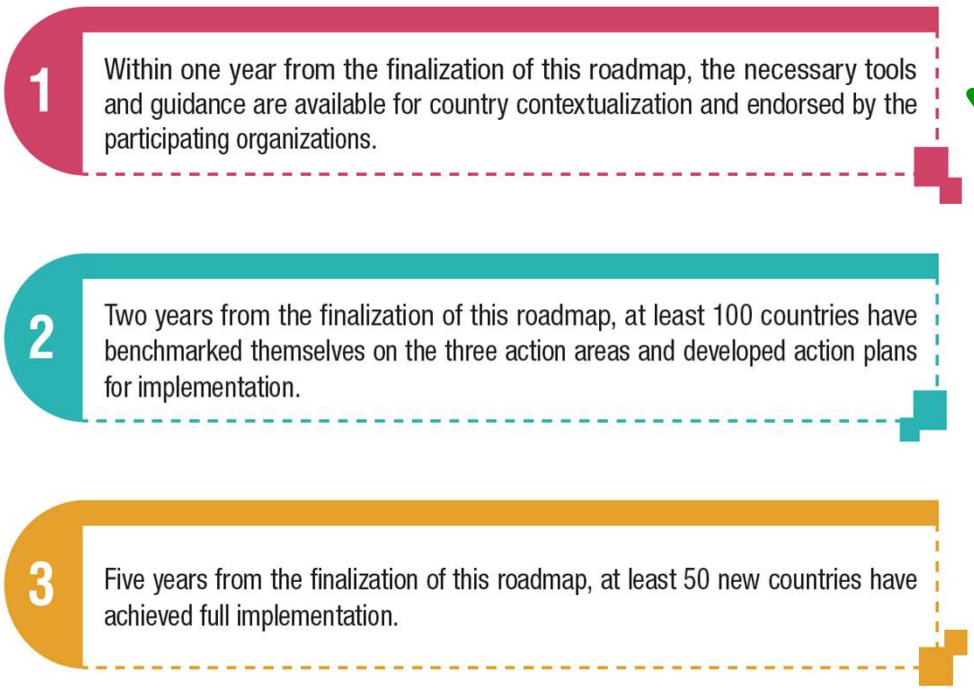
- > 60 partners with presence in > 123 countries across the world have endorsed the roadmap.

- Roadmap has 3 action areas which are interlinked



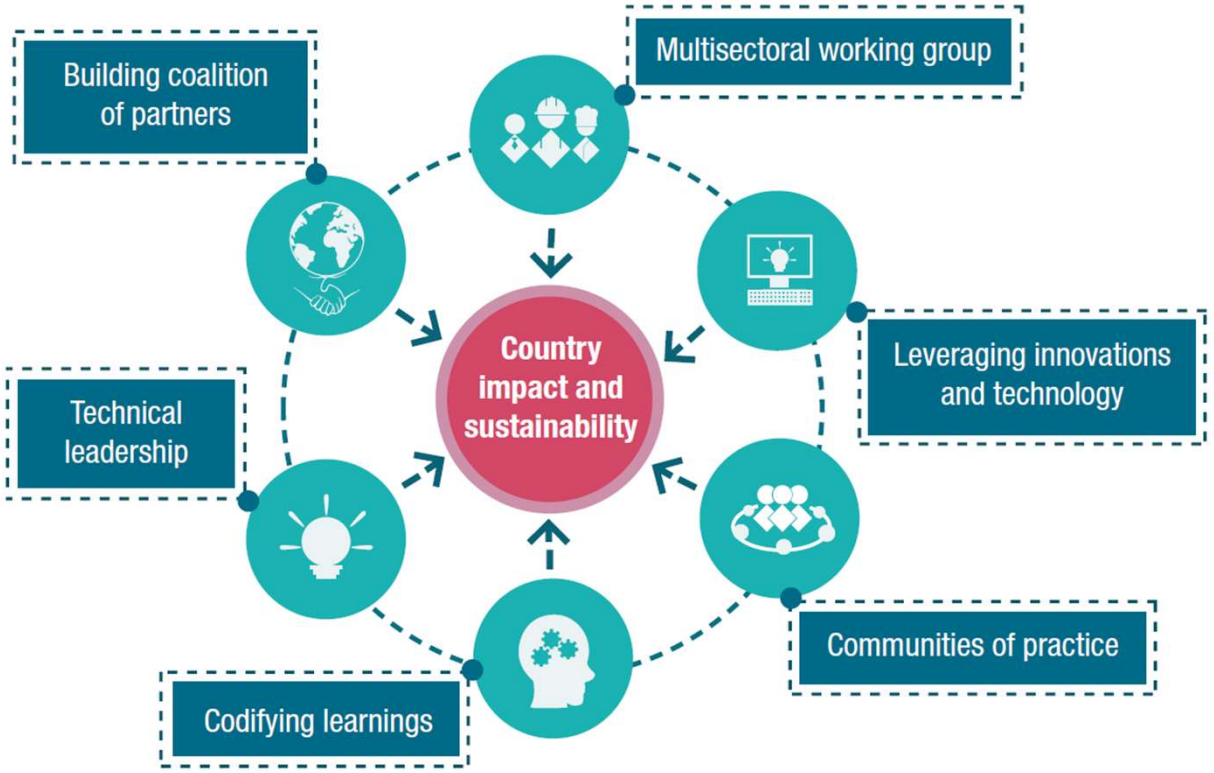

Health and care workers who perform one or more public health functions
Core public health personnel
Personnel from other allied occupations
Group 2
Group 1
Group 3

Measures of Success, and the Results so far



- Technical products developed for the 3 action areas in consultation with various partners
- Piloted in various countries
  - Azerbaijan, Colombia, England, Georgia, Ghana, Ireland, Kenya, Montserrat and Uganda.
- More than 60 countries territories and areas have expressed interest in implementing the Roadmap
  - China, India, South Africa, Germany, Portugal, Saudi Arabia, Senegal, Togo, Philippines, Seychelles, Papua New Guinea, Japan, Iran, Jordan, Mozambique, Zimbabwe, the Caribbean countries, the Pacific Island countries, and the UK Overseas Territories.

Importance of partnerships for implementing the Roadmap



How can NPHIs play a key role?

- Awareness generation and stewardship at national level
  - Convening multi-sectoral governance mechanism for public health workforce
- Implementation of the Roadmap
  - Contextualizing according to country needs and priorities
  - Adopting a phased implementation approach
    - Prioritizing a set of functions/subfunctions/services
    - Prioritizing a workforce group or selected occupations
    - Assessing and strengthening the NPHI's capacity
  - Using evidence to inform national planning, policymaking and reporting processes (eg – NAPHS, IHR, SPAR)
- Inform curriculum review/redesign for the public health workforce
  - pre-service education and in-service training

THANK YOU

Show your support: Endorse the Roadmap

THE ROLE OF SCHOOLS OF PUBLIC HEALTH, WORKING WITH NPHIs TO TRAIN THE PUBLIC HEALTH WORKFORCE OF THE FUTURE

Dr. Laura Magaña,
President and CEO,
Association of Schools and Programs of Public Health (ASPPH) & Global Network for Academic Public Health (GNAPH), United States

GLOBAL NETWORK
FOR ACADEMIC PUBLIC HEALTH

An Alliance of Regional Associations

representing schools and programs of public health around the world

Alianza Latinoamericana de Salud Global
Asia-Pacific Academic Consortium for Public Health
Association of Schools of Public Health in Africa
Association of Schools of Public Health in the European Region
Association of Schools and Programs of Public Health
Council of Academic Public Health Institutions Australasia
South-East Asia Public Health Education Institutions Network

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Public Health Institutes of the World

IANPHI

GLOBAL NETWORK

FOR ACADEMIC PUBLIC HEALTH

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Public Health Workforce Challenges

- Global health threats and violence
- Persistent underinvestment
- Lack of robust information systems
- Health emergencies and demographic trends
- Inequalities

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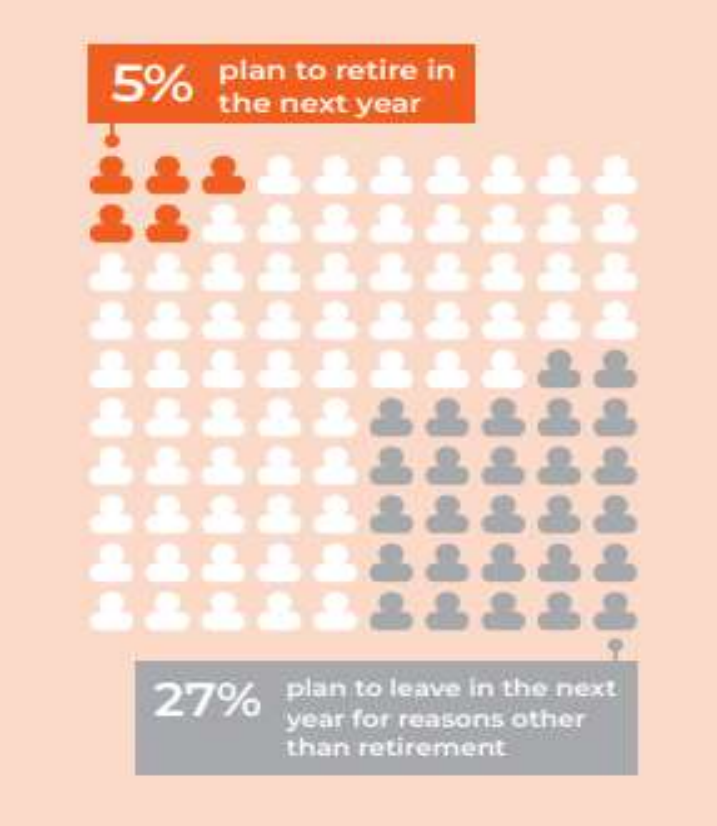
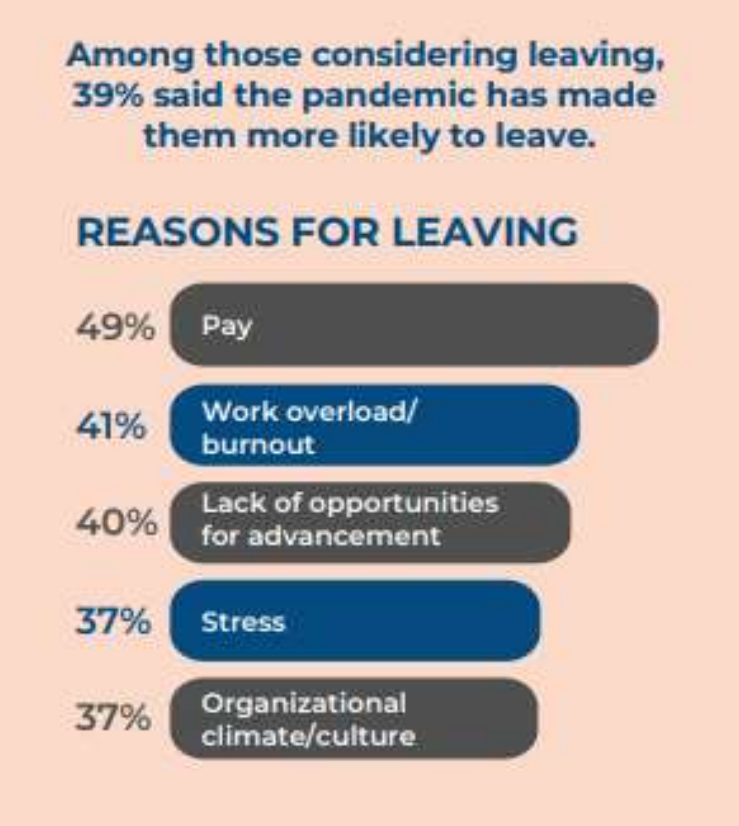
Supporting the Current Public Health Professionals' Workforce

Exodus of Public Health Professionals in the U.S.





https://debeaumont.org/wp-content/uploads/2022/11/2021KeyFindings..pdf

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Transforming Health Professionals Education

Public Health Professionals

- Leadership
- Partnership and Collaboration
- Communication to different audiences
- Interdisciplinary and intersectoral networking
- Advocacy, law, ethics
- Global health
- Digital competency
- Equity and social justice
- Data analysis and modeling
- Core competency refreshers

Decision-makers

- Public health values and ethics
- Epidemiology concepts
- Preparedness and response strategies
- Public health resources and authorities
- Global interconnectedness
- Health impacts from other fields
- Human/ animal/ environmental connections
- Evidence-based decision-making
- Communication
- Consensus building

Global governance for improved human, animal, and planetary health: the essential role of schools and programs of public health. Global Network for Academic Public Health. September 28, 2021. https://s3.amazonaws.com/ASPPH_Media_Files/Docs/GNAPH_Global+governance+for+health.pdf

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A Lifetime of Learning

Work/Learn/Live

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A Knowledge Economy

A Learning Society

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Thank you!

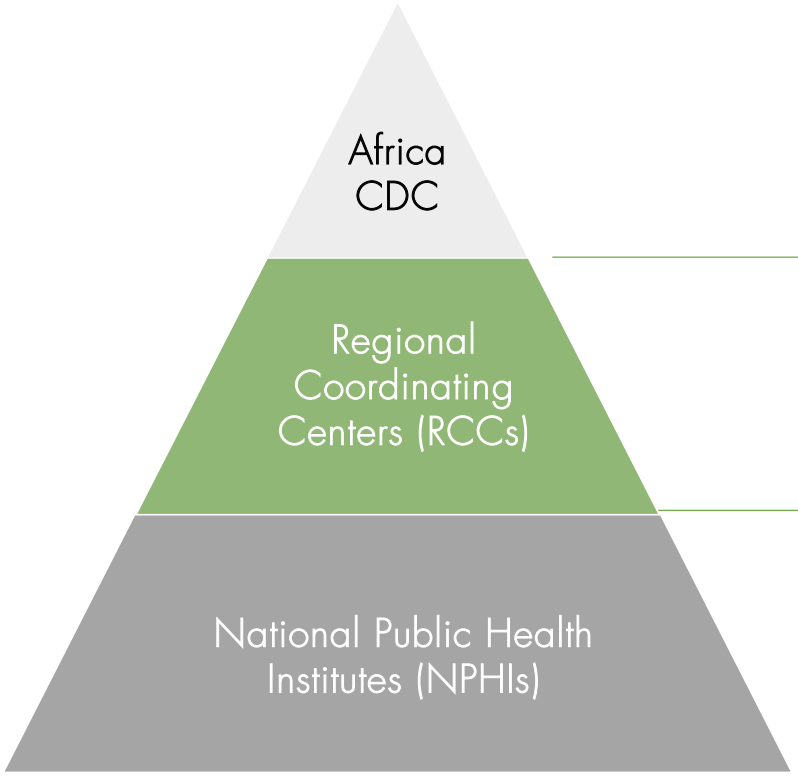
WORKING WITH MINISTRIES OF HEALTH AND NPHIs TO BUILD CONSENSUS ON THE EPHFs

Dr. Fethiye Gulin Gedik,
Coordinator Health Workforce, WHO Regional Office for the Eastern Mediterranean (WHO EMRO)

STRENGTHENING NPHIs AND EMERGENCY WORKFORCE CAPACITY IN AFRICA

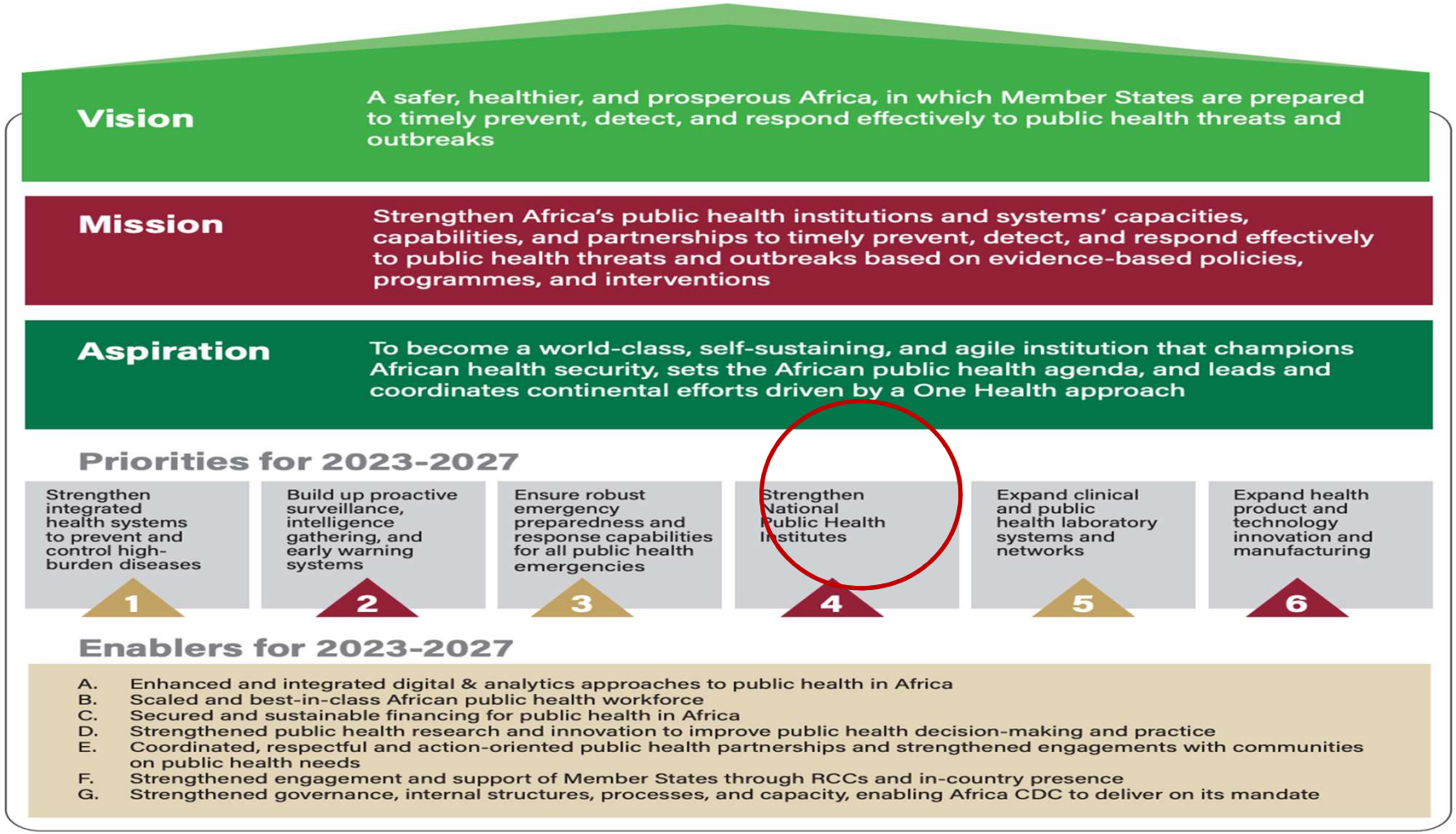
Dr. Raji Tajudeen, MD, MPH, FWACP,
Chatham House Fellow
Head, Public Health Institutes & Research
Africa CDC

National Public Health Institutes are the foundations of Africa CDC



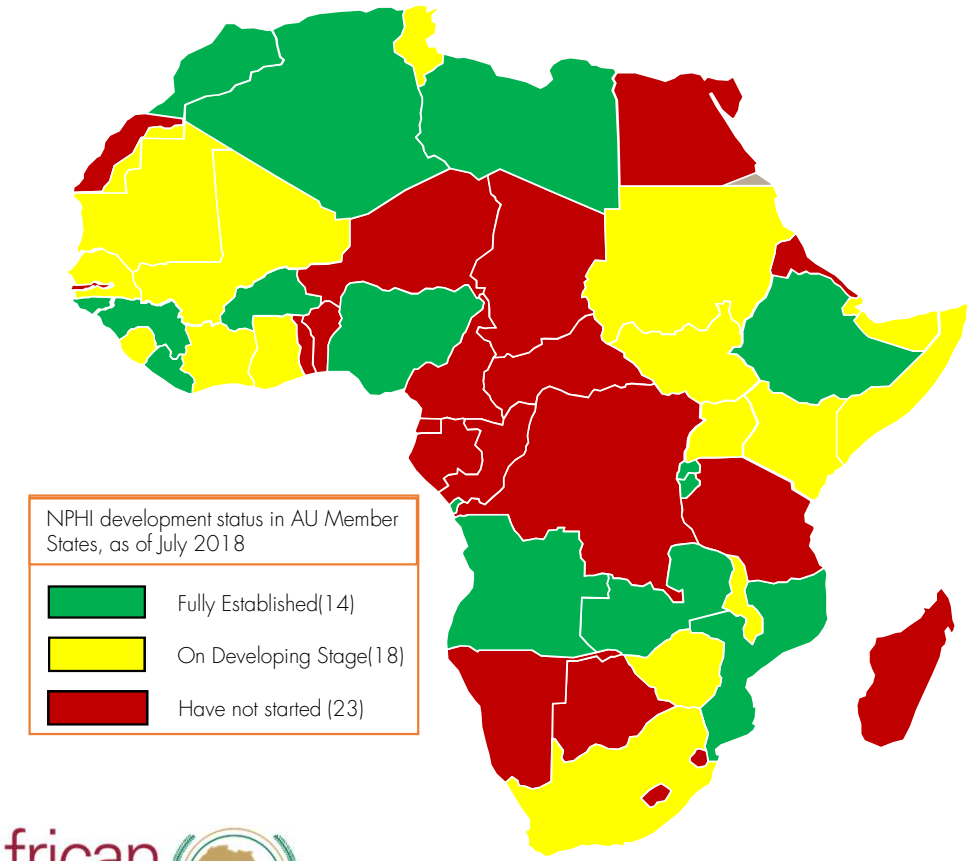
- Africa CDC plays a leading role in coordinating continent-wide efforts, multi-national responses and events, and supporting RCCs and NPHIs
- RCCs enable regional coordination and ensure that all local health assets are leveraged to support a public health response
- NPHIs are the foundation of our work: they are the "eyes and ears" on-the-ground in disease surveillance and the implementers of public health responses

Africa CDC Strategic Priorities for 2023 – 2027

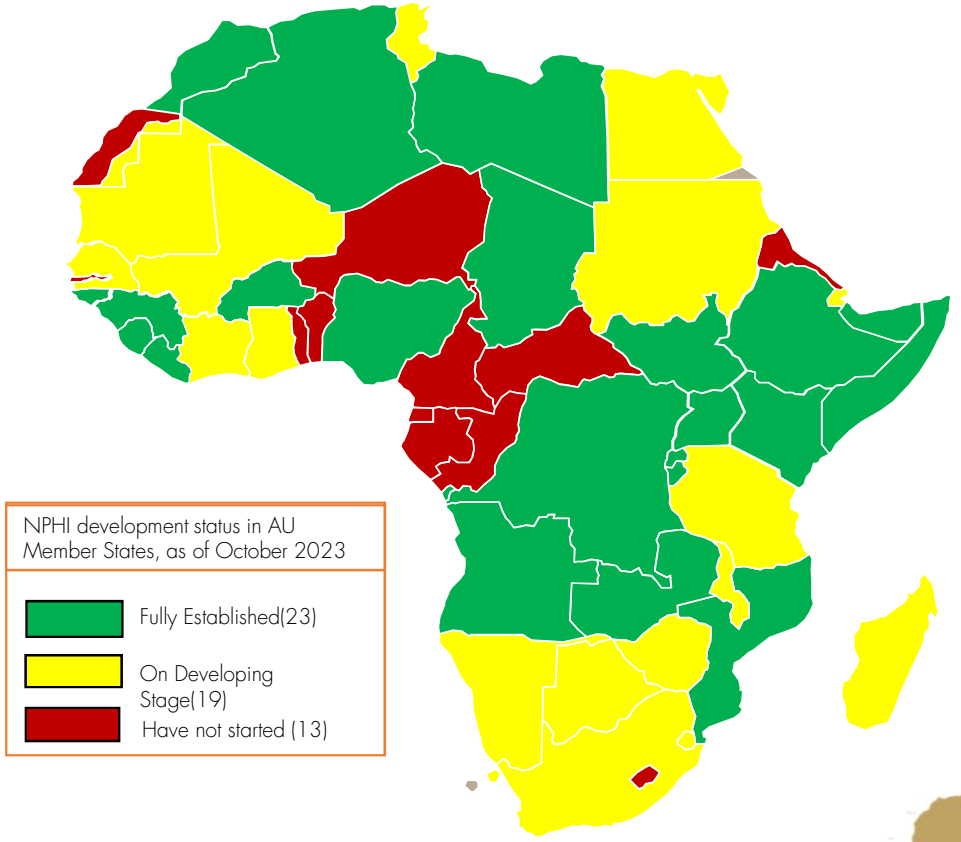


NPHI Establishment Progress in Africa

NPHI Development Status as of July 2018



NPHI Development Status as of January 2023



African Union

AFRICA CDC
Centres for Disease Control and Prevention
Safeguarding Africa's Health

Developed Framework Documents to Guide NPHIs Development in Africa

- NPHI development Framework
- NPHI establishment Legal framework
- NPHI Monitoring scorecard
- Framework for the operationalization of One Health
- Framework for public health workforce development

African Union

AFRICA CDC
Centres for Disease Control and Prevention
Safeguarding Africa's Health

Peer to Peer and Twining Programmes

- 19 NPHIs were involved in peer-to-peer and twining programmes
    - Comoros, Madagascar, Rwanda, Somalia, South Sudan, Tanzania, Lesotho, Botswana, Liberia, Zambia, Ethiopia, Burkina Faso, Chad, Central African Republic, Democratic Republic of Congo, Guinea, Togo, and Mauritania

Annual and Regional NPHI Engagements

- CPHIA Pre-Meeting of National Public Health Institutes (NPHIS), 27 November 2023
- North Africa NPHI regional meeting, Tunis, Tunisia, 28-30 August 2023
- Central Africa NPHI regional meeting Bujumbura, Burundi, 19-21 July 2023

Support Workforce Capacity of NPHIs

39	Trained on Kofi Annan Global Health Leadership programme, and 20 enrolled in cohort 3
63	Supported training on Advanced FETP from 13 Southern and Central African MS
44	Trained on Frontline FETP from member states in Central Africa Region
98	Trained on Global Burden of Disease from East, West, South, and Central Africa member states
15	In collaboration with the Harvard Global Leadership Program , graduated 15 Nurses from 11 African countries

Build Institutional Capacity for Research

- Develop the African Health research prioritization framework document
- Drafted African centered ethics framework for research during epidemics and public health emergencies
- Trained Over 40 Africa CDC staff on Scientific manuscript authorship in collaboration with Euro-surveillance
- Work with Chatham House on One Health Research Capacity

Participants at the Stakeholder consultative workshop on priority setting for the African Continental Research Agenda Framework, 3rd to 5th April 2023 at the South African Medical Research Council

Emergency Workforce Capacity

Goal: Ensure robust emergency preparedness and response capabilities for all public health emergencies

Strategic Objectives:

1. Strengthen prevention and preparedness capacities and capabilities for public health emergencies at the continental, regional and Member State levels.
2. Strengthen robust emergency response and recovery capacities and capabilities to address public health emergencies at the continental, regional and Member State levels.
3. Build cross-border collaboration and coordination mechanisms for emergency preparedness and response.

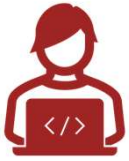
African Epidemic Service

Africa CDC has developed a continental African Epidemic Service (AES), an elite public health workforce programme hosted and directed by the African Union.

African Epidemic Service (AES) has three tracks, selected based on the need identified by Africa CDC's framework for public health workforce development.

Applied Epidemiology

Laboratory Leadership



Health Informatics

Strengthen emergency workforce capacities

1. Legal instrument for Public Health Emergencies
    - Mechanisms in place to respond to PHEs with cross-border or regional implications
2. Support Member States' PHEOCs.
    - Support Member States to establish and manage functional PHEOCs in NPHIs
    - Build PHE Leaders through PHEM Fellowship program and short courses
3. AVoHC/ Regional RRT/ National RRT
    - Functional and operational **AVoHC RR and EMTs** with rapid deployment capacity
    - Regional and National RRT establishment and development
4. Knowledge Management
    - Support research during disease outbreaks

Joint Emergency Preparedness and Response Action Plan (JEAP)

	Target for the year 2023-2027
Emergency Workforce Development	• Build a network of emergency health experts • Expand roster of AVoHC, National and Regional RRT • Build AVoHC EMTs
Response readiness and coordination	• Support at least 21 Member States to establish and operationalize PHEOC • Target is to reach 90% of by the year 2026
Country assessment for preparedness	• Increase visibility on country's core capacities, key challenges and opportunities for intervention during PHE
Logistics, supply chain and stockpiling	• Stockpiling of Medical Countermeasures (MCM) for high priority pathogens • Setting framework agreements for MCM supply chain management
Emergency Response Support	• Timely response to ALL Grade 3 and 80% of Grade 2 outbreaks and other health emergencies • Support development and dissemination of technical tools and guidelines

Key Africa CDC Priorities for NPHIs

1. Africa CDC Public Health Institutes Strategy
2. Development of investment plans for NPHIs
3. Bolster Africa CDC capacity to drive the NPHI agenda
4. Support the operationalization of six (6) newly established NPHIs: Chad, Sierra Leone, South Sudan, Kenya and DR Congo.
5. Support 10 NPHI regional Centers of Excellence for PHEM, Health Workforce, Operational Research, Pathogen Genomics, & Data and Analytics
6. Support the 32 Member States without established NPHIs to do so

Key Africa CDC Priorities for Public Health Workforce

I. Strengthening of Field Epidemiology Training Program in Africa

II. African Epidemic Service: Applied Epidemiology, Health Informatics, and Laboratory Leadership tracks

III. Primary Health Care Workforce

IV. Development of a Health Workforce Observatory

V. Healthcare Workers Protection

LEARN MORE AT

africacdc.org/covid-19

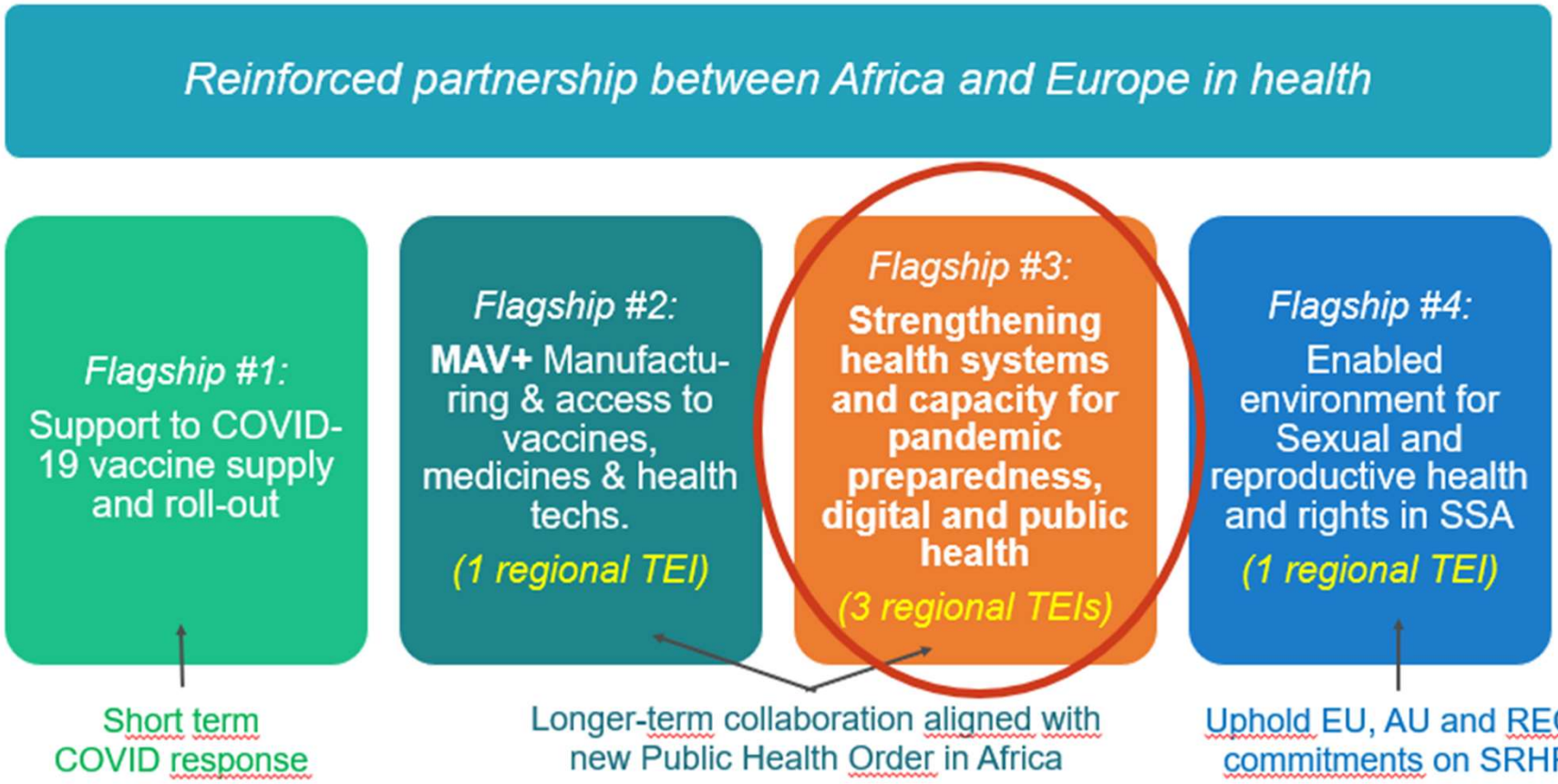
Safeguarding Africa's Health

TEAM EUROPE INITIATIVE TO SUPPORT NATIONAL PUBLIC HEALTH INSTITUTES IN AFRICA

Dr. Anders Tegnell,
State Epidemiologist, Public Health Agency of Sweden,

Diana Van Daele,
Programme Officer,
Directorate-General for International Partnerships,
European Commission

EU Global Gateway



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Flagship #3

Strengthening health systems and capacity for pandemic preparedness, digital & public health

Launch of the OH, PHI and digital TEIs

Bilateral / Country

health systems strengthening programs to improve access to services and advance towards UHC

Regional TEI with Africa

on sustainable health security using a One Health approach.

Regional TEI

for an Africa-based public health capacity: Support to Public Health Institutes

Regional TEI

on digital health for health systems strengthening and Universal Health Coverage

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A Regional Team Europe Initiative on Support to National Public Health Institutes in Africa

Objectives and Results of the regional TEI Support to PHI

Impact	Contribute to population's health and wellbeing (SDG 3) through the provision of multiple public health services by performant PHIs		
Specific objectives	SO1. Support core-functions, key attributes and services of schools and institutes of public health at national level	SO2. Establish/Enhance collaboration between PHIs to jointly develop research, training, policy advice and advocacy at regional level	SO3. Enhance collaboration between European and African PHIs and integration of African PHIs in international public health networks
Results	R.1.1. PHI have improved expertise, knowledge and resources to provide evidence-based and locally adapted policy advice R.1.2. PHI generate context, culturally and gender sensitive data and evidence on public health priorities to drive the policy response and formulate strategies R.1.3 NPHI perform better on their core functions and key attributes R.1.4. PHI generated data and findings are translated into policies	R.2.1. Enhanced South to South Collaboration among NPHI R.2.2. Targeted National PHI are integrated in established networks at subregional/continental level	R.3.1. Increased Twinning, Consultation with regional, European and global public health organisations and political fora and working groups that support the participation in international public health conferences

Why a *regional* TEI?

A coordinated approach to major policy, strategic-technical and financial challenges

Including:

- Coverage gap
- Underinvestment
- Tackle common challenges and share lessons learned

National Public Health Institutes focus on National Public Health Issues, but regional support to tackle common challenges are crucial

The added value of a regional TEI

- Coherence and Additionality
- Networking, exchange, innovation and learning
- Formulate joint actions
- Strengthen Dialogue
- Capacity building
- Improve visibility

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TEI on Support to National Public Health Institutes

Approach

- The TEI NPHI aligns to the Africa CDC Framework for Development of National Public Health Institutes in Africa
- The PHI TEI is complementary to the OH TEI on sustainable health security using a One Health approach
- The PHI TEI focusses on health systems strengthening to address inequities in access to health services

Conceptual framework

Africa CDC Framework for Development of National Public Health Institutes in Africa

Capacity building Core Functions & Key Attributes

Enhance Networking

Finance

Objective and geographical focus

General objective:

To **jointly** contribute to population's health and wellbeing (SDG 3) through the provision of public health core functions by performant schools of public health and public health institutes

EU Members of the PHI TEI

- BELGIUM
- CZECHIA
- FINLAND
- FRANCE
- GERMANY
- IRELAND
- ITALY
- NETHERLANDS
- PORTUGAL
- SPAIN
- SWEDEN
- European Commission

The TEI today

- Improve the coordination of EUMS supporting National Public Health Institutes in Africa
- Prepare the formulation of new actions and the communication strategy in co-creation with African partners
- Following the launch initiate dialogue with Regional actors and stakeholders, to align the TEI to ongoing regional initiatives and to respond to needs

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Thank you!

SOUTH AFRICA'S EXPERIENCE – REFORM OF THE PUBLIC HEALTH SYSTEM AND BUILDING EPIDEMIOLOGY CAPACITIES

Dr. Natalie Mayet,
Deputy Director, National Institute for Communicable Diseases (NICD), South Africa