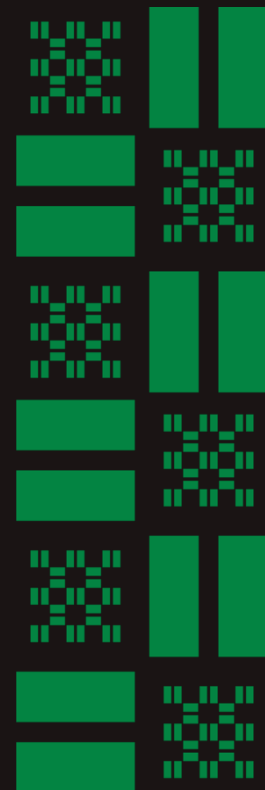


Strengthening Public Health Intelligence

The EIOS Initiative in the African Region

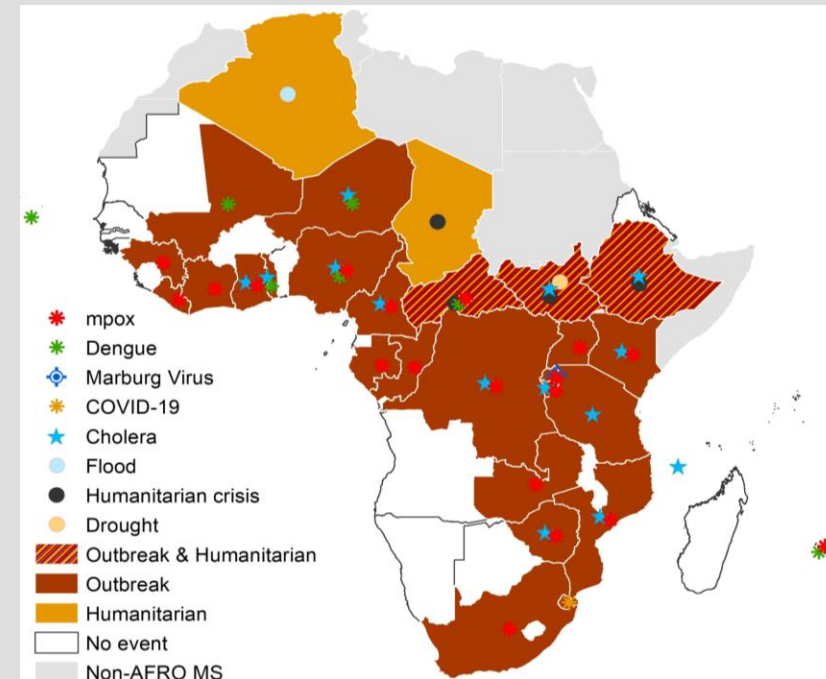
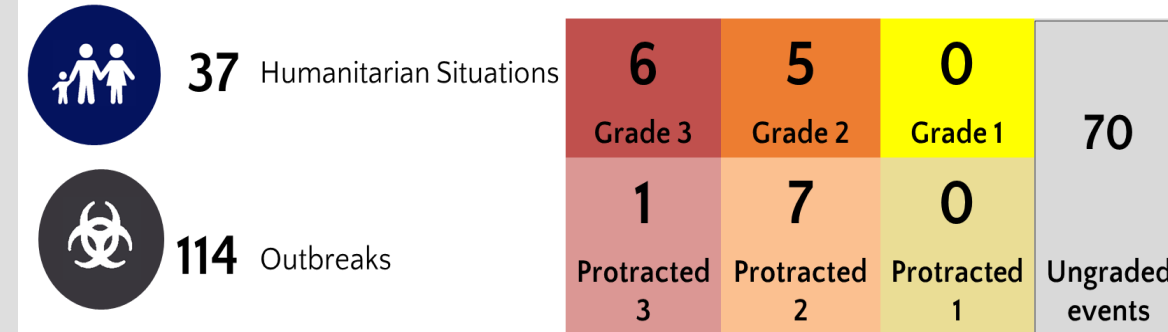
Dr. Etien Koua



Scope and scale of emergencies in the African region

- Over **100 outbreaks per year** and **3 to 4 new events per week**, with ever increasing complexity and frequency
- AFRO represents **60% of all global graded emergencies**, 56% of which are vaccine-preventable
- **Capacity strengthening** for early detection and monitoring of outbreaks, through **effective surveillance systems**, is crucial and needed

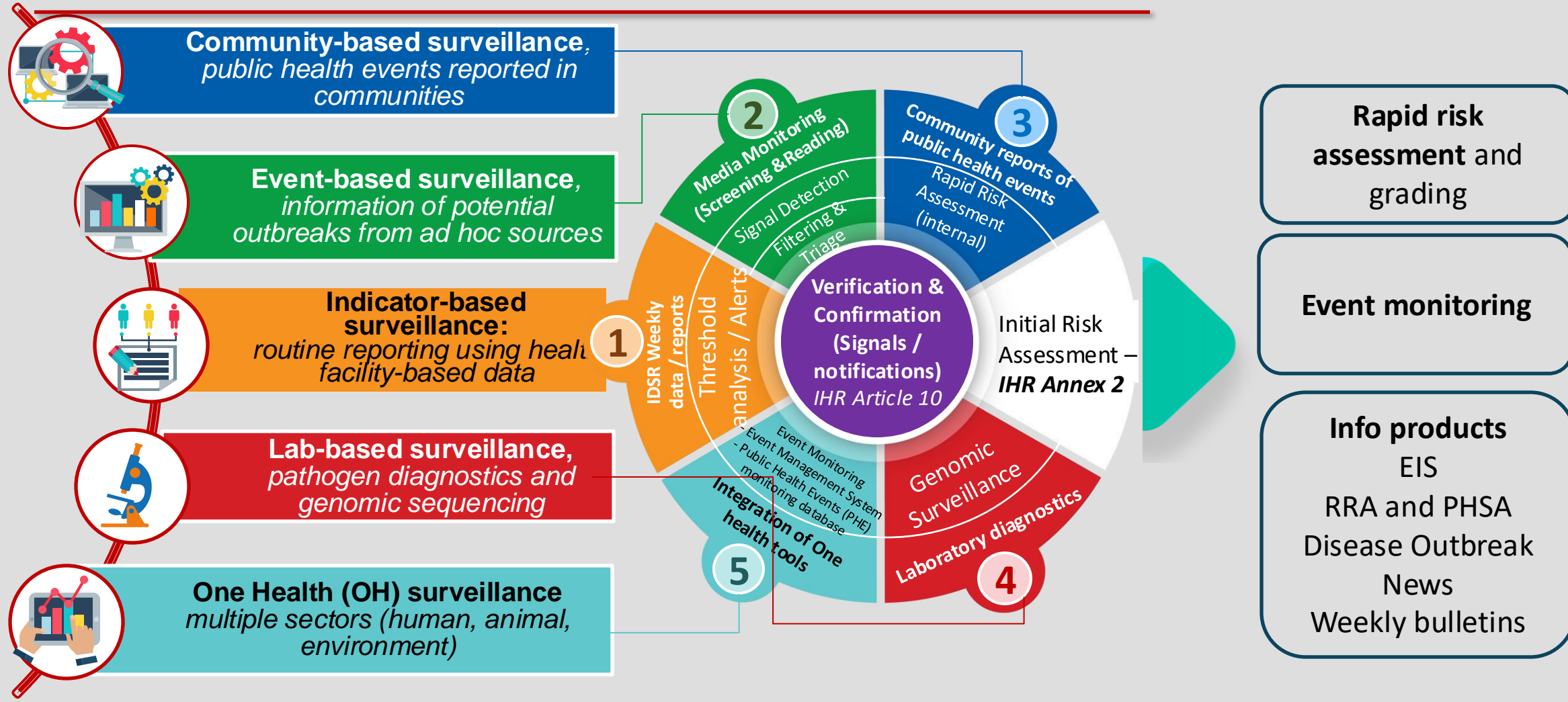
151 Events under monitoring, as of 1 Dec 2024



Grade 3 events only

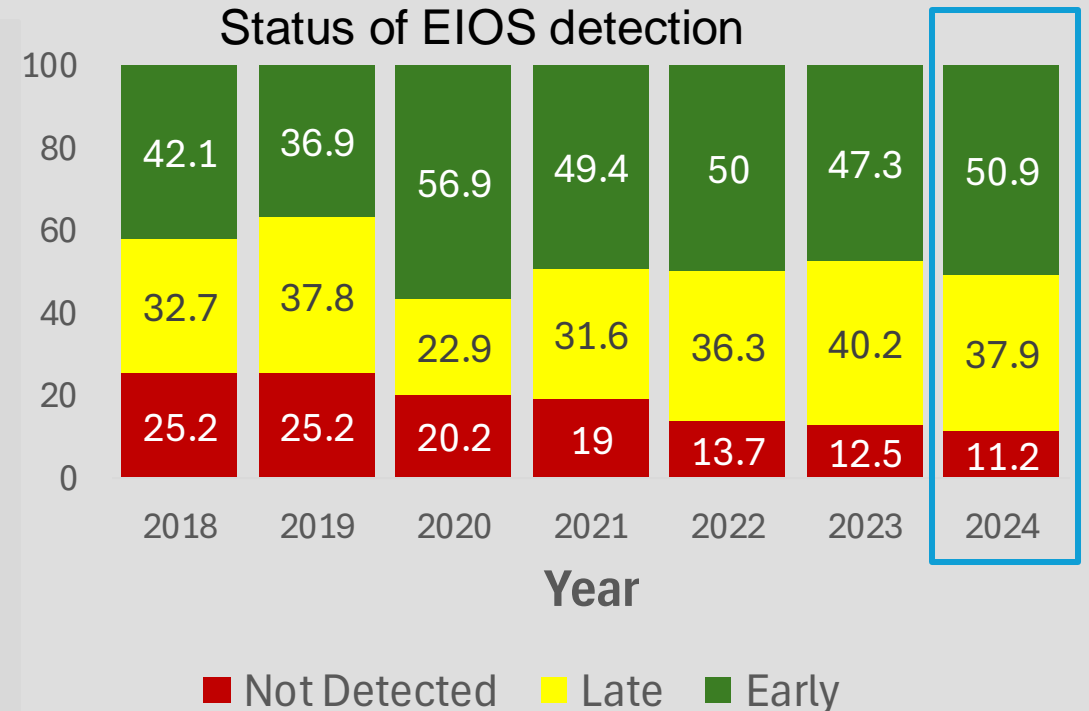
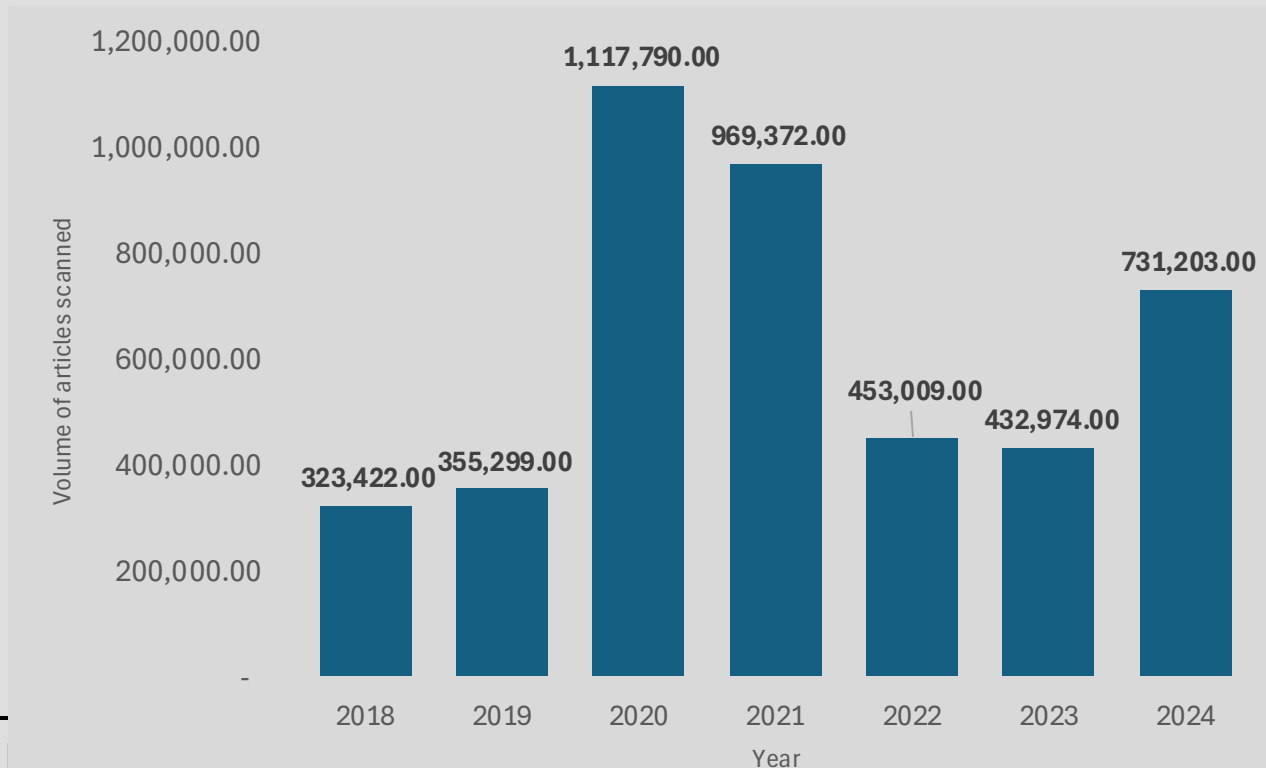
AFRO's all-hazard approach for strengthening PHI

Integration of different surveillance processes to rapidly detect, respond and contain public health emergencies

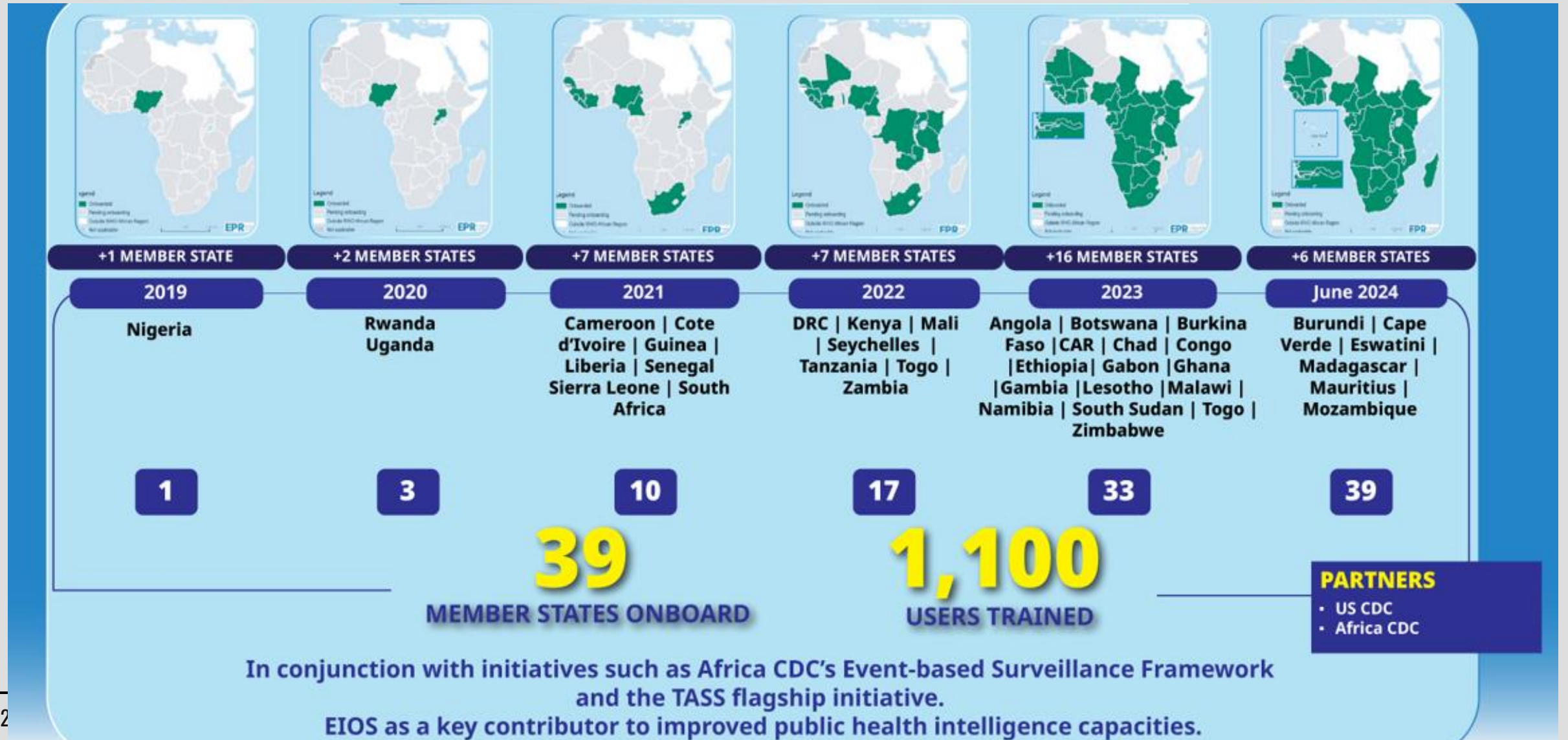


AFRO EIOS performance, in numbers

- In 2023: **~3,000** articles screened/day, 134 signals detected, 60% confirmed
- From 2018-2024: **4 million pieces of information were scanned, 1105 signals** detected
- From 2018-2024: EIOS detected around **50% of all events reported** to WHO, before receiving official notification from Member States



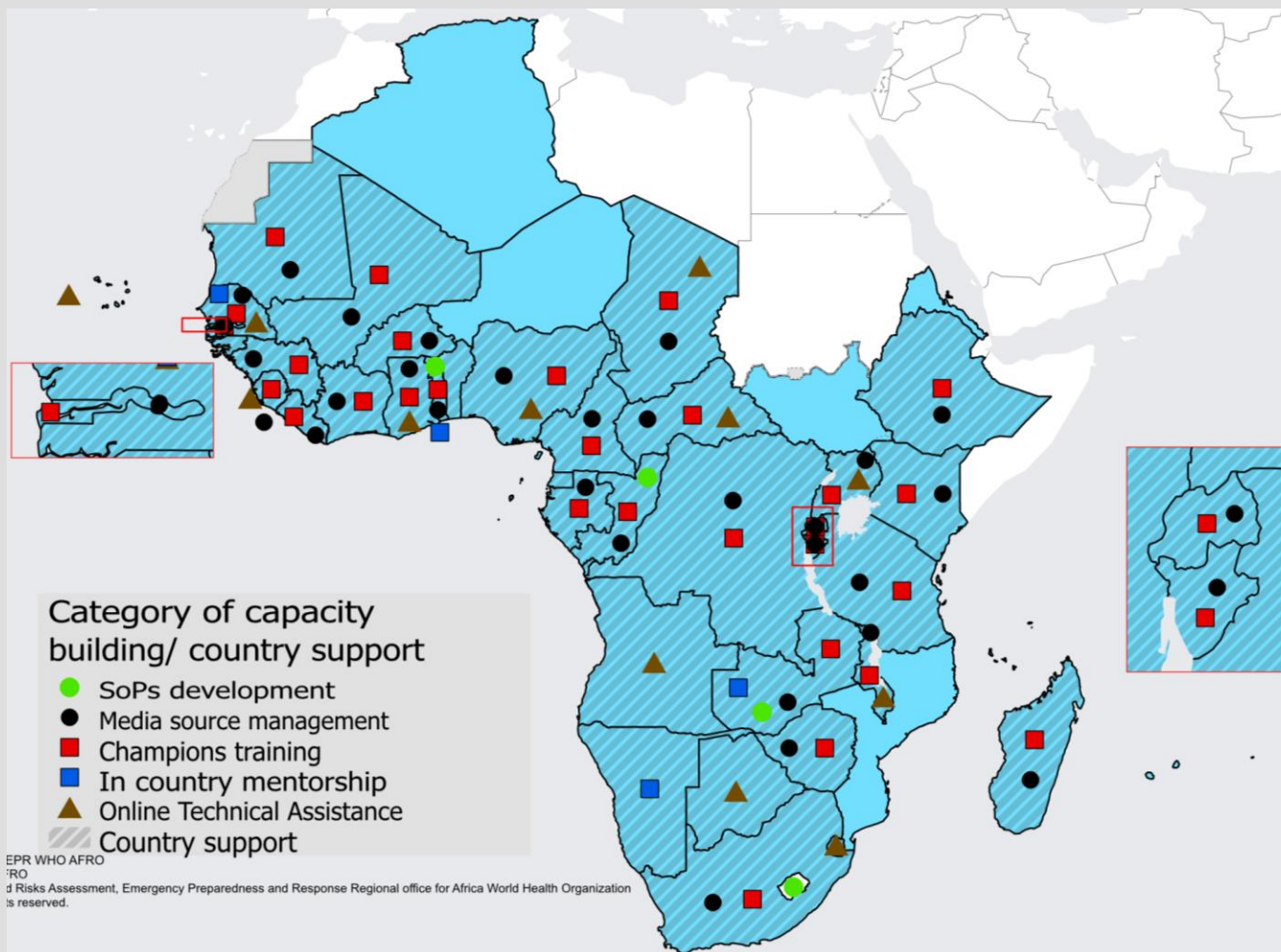
Phased EIOS expansion in AFRO, 2019-2024



EIOS training and country support in AFRO

EIOS activity	Countries
<i>Pre-onboarding</i>	
Engagement session	47
Initial assessment	40
Onboarding	39
<i>Post-onboarding</i>	
Mentorship / Refreshers	4

EIOS training statistics	People
Total (Standard)	1 100
Face-to-face	944
Hybrid	140
Online	16
Total (Champions)	90





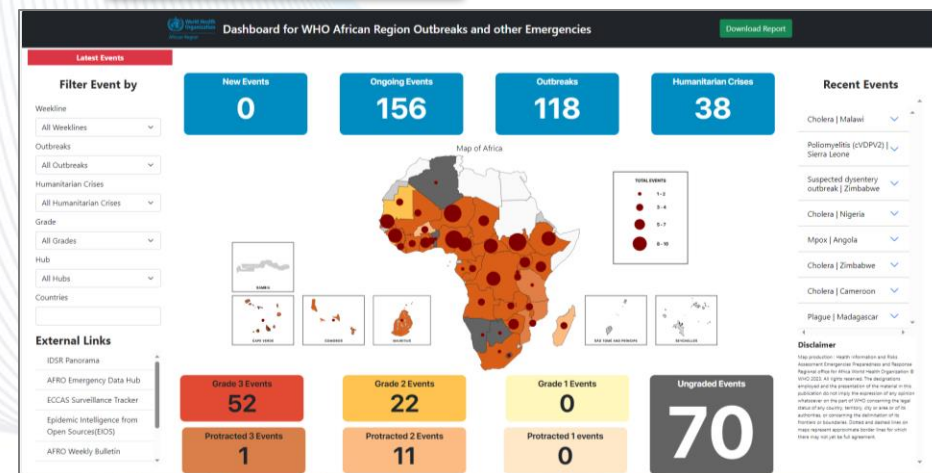
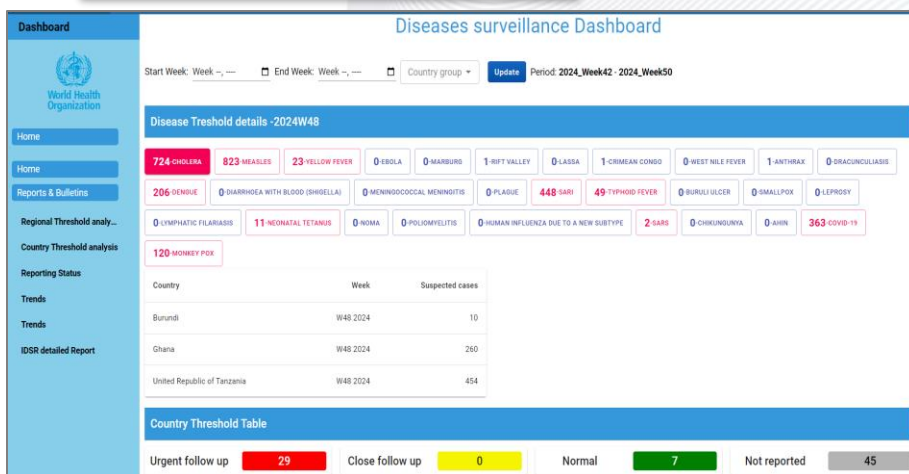
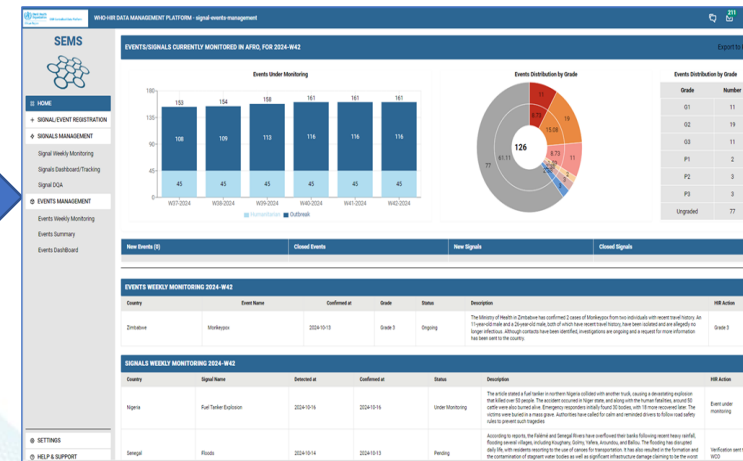
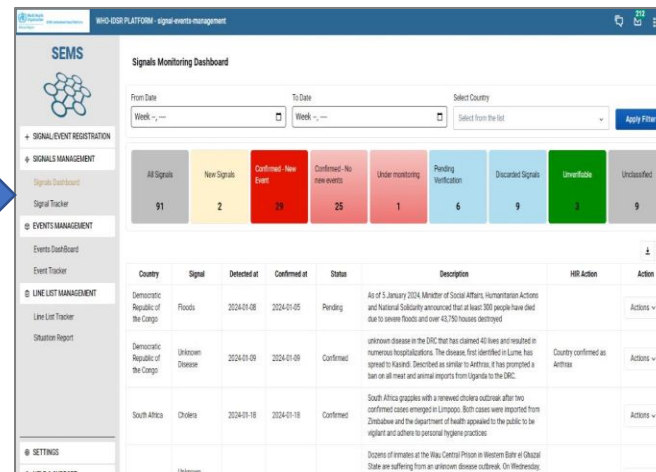
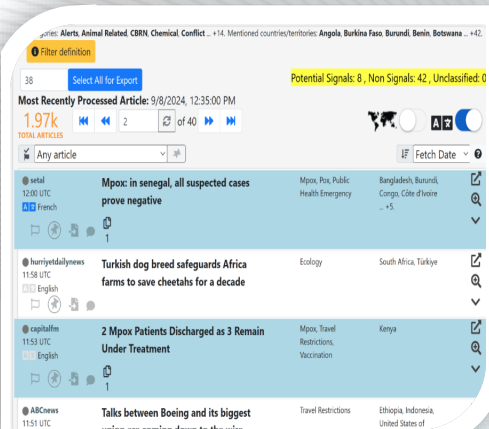
EIOS TRAINING AND COMMUNITY OF PRACTICE

Growing EIOS community in the African region

EIOS

IDSR data Platform


Public health Events Tracker

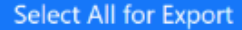


Innovation: A machine learning classifier





HIR Browser Extension for EIOS





Categories: Alerts, Animal Related, CBRN, Chemical, Conflict ... +14. Mentioned countries/territories: Angola, Burkina Faso, Burundi, Benin, Botswana ... +42.


















 Filter definition

38  Potential Signals: 8 , Non Signals: 42 , Unclassified: 0

Most Recently Processed Article: 9/8/2024, 12:35:00 PM

1.97k  of 40   

 Any article   Fetch Date 

 12:00 UTC  French	Mpox: in senegal, all suspected cases prove negative	Mpox, Pox, Public Health Emergency	Bangladesh, Burundi, Congo, Côte d'Ivoire ... +5.	  
 11:58 UTC  English	Turkish dog breed safeguards Africa farms to save cheetahs for a decade	Ecology	South Africa, Türkiye	  
 11:53 UTC  English	2 Mpox Patients Discharged as 3 Remain Under Treatment	Mpox, Travel Restrictions, Vaccination	Kenya	  
 11:51 UTC	Talks between Boeing and its biggest union are coming down to the wire	Travel Restrictions	Ethiopia, Indonesia, United States of	

Improve on timely detection, increase efficiency of screening articles on EIOS to identify potential signals

- A machine learning classifier that detects potential signals on EIOS
- A browser extension to help the team distinguish between non-signal and potential signal articles

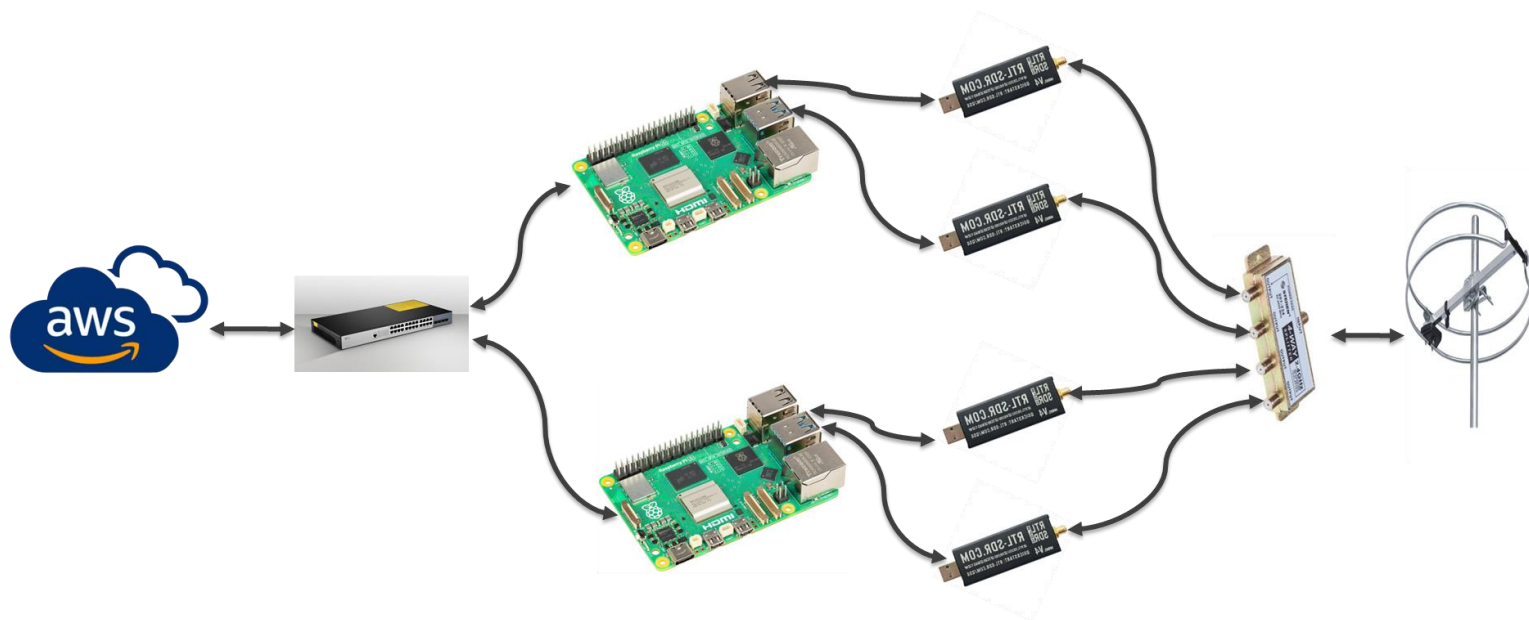


Innovation: Speech-to-Text Project

Local community radios as sources
for public health intelligence



Capture > transcribe > translate >
search radio broadcasts



Ongoing pilot:

SOUTH SUDAN | TANZANIA

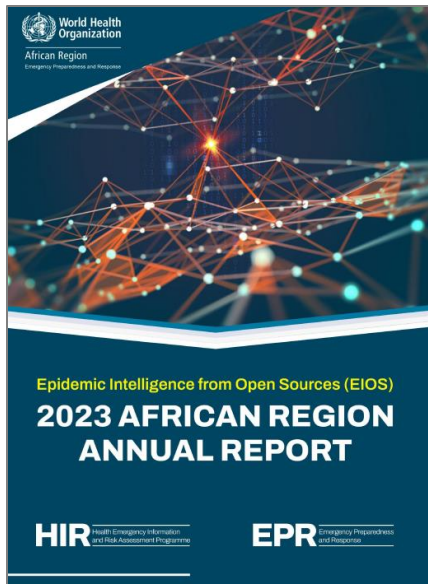


Add radio stations (FM/AM and online) as data sources on EIOS to
increase media coverage and reduce time-to-detection

Moving forward



Learning from the 2023 EIOS survey to address challenges and improve country support.



Building on current achievements

- Monitoring the use of EIOS in onboarded countries
- Scale up to all Member States
- Promote and support innovation to enhance the functionality & use of EIOS



Addressing strategic priorities:

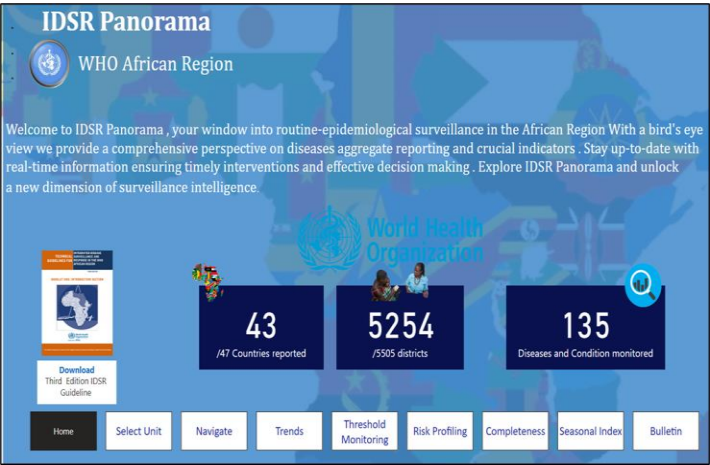
- Continuing **engagement**
- Collaboration on **system integration, & interoperability**
- Alignment with **other initiatives**
- Developing a **Community of Practice**
- Advocacy for **Funding**
- **Sustainability**



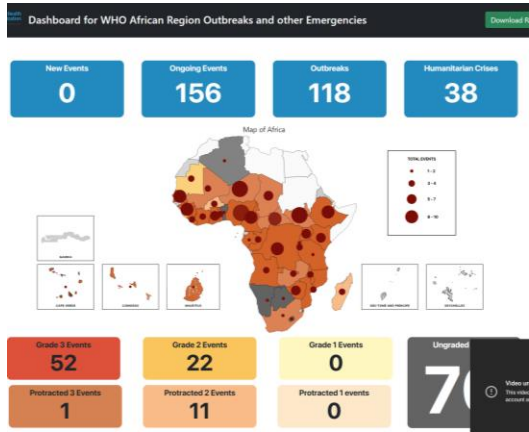
Regional Capacity Building at Dakar Hub

- Member States training
- EIOS champions
- Improve **country support**
- **Guidance** on tools and systems that leverage a one health, all hazards approach
- **Documentation** of PHI practices or lessons learned
- Machine learning **experiments** and integration

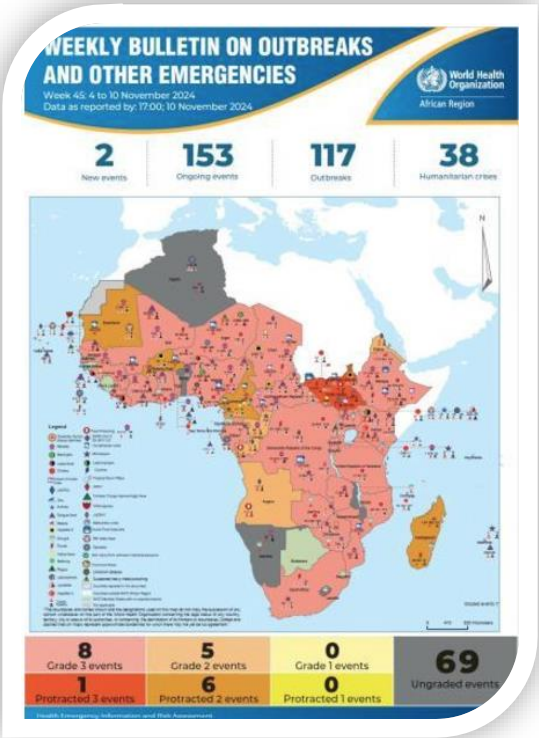
Some Information Products



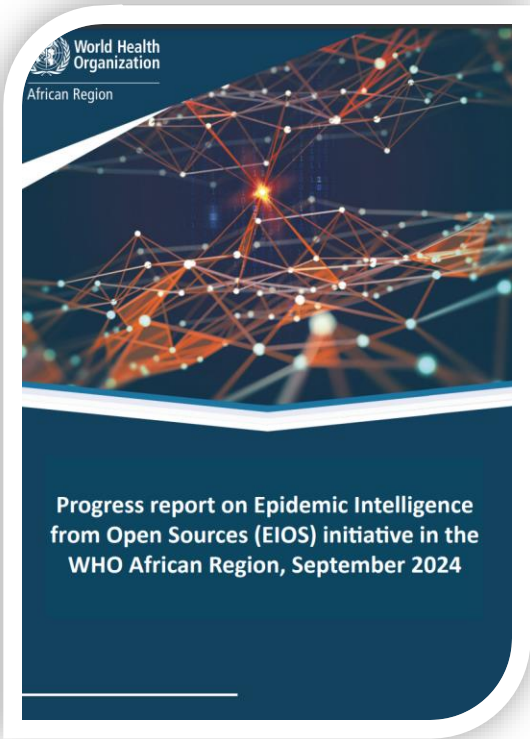
IDSR PANORAMA



PHE TRACKER



WEEKLY BULLETIN



EIOS PROGRESS REPORT



THANK YOU

MERCI

JĚRĚJĚF