

Tools and Technologies for Epidemic Intelligence

A Focus on Epidemic Intelligence from Open Sources

EIOS

EPIDEMIC INTELLIGENCE
FROM OPEN SOURCES

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WHO Hub for Pandemic and Epidemic Intelligence



World Health
Organization

HUB
Pandemic and Epidemic
Intelligence

BBC

Home News Sport Business Technology Health Culture Arts Travel Earth Audio Video Live

Nipah virus outbreak in India triggers Asia airport screenings

27 January 2026

Share Save

Kelly Ng



Winter Olympic Games

Norovirus outbreak in Milan Olympics: How it's impacting women's Ice Hockey

Illness disrupts early competition as Finland and Switzerland battle health setbacks at the Winter Olympics

HEALTH NEWS & UPDATES

Seychelles Mosquito Virus Outbreak 2026: Complete Travel Advisory Guide for Chikungunya



healthguiders

Last updated: February 13, 2026 4:49 pm

Flu Cases Rise Dramatically as New Virus Strain Emerges

thebmj

Research Education News & Views Campaigns Jobs

News

Meningitis: Fatal outbreak in Kent is less targeted strain B, officials say

BMJ 2026 ; 392 doi: <https://doi.org/10.1136/bmj.s516> (Published 17 March 2026)

Cite this as: BMJ 2026;392:s516

Breaking News

PMF fires back at Saudi FM over remarks on Iraq role

Avian flu kills thousands of chickens in Iraq

Society

Breaking

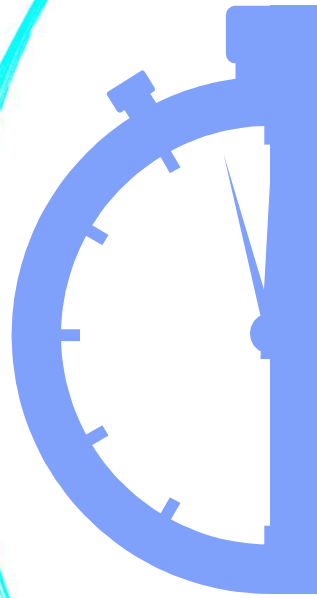
Mosul

Nineveh

Avian Flu

EIOS
EPIDEMIOLOGICAL INTELLIGENCE
FROM OPEN SOURCES

**THE SPEED WITH WHICH
HEALTH THREATS ARE
APPROPRIATELY RESPONDED
TO HAS A SIGNIFICANT EFFECT
ON THEIR IMPACT**



DETECT EARLIER

RESPOND FASTER

SAVE LIVES

Epidemic Intelligence from Open Sources

WHAT

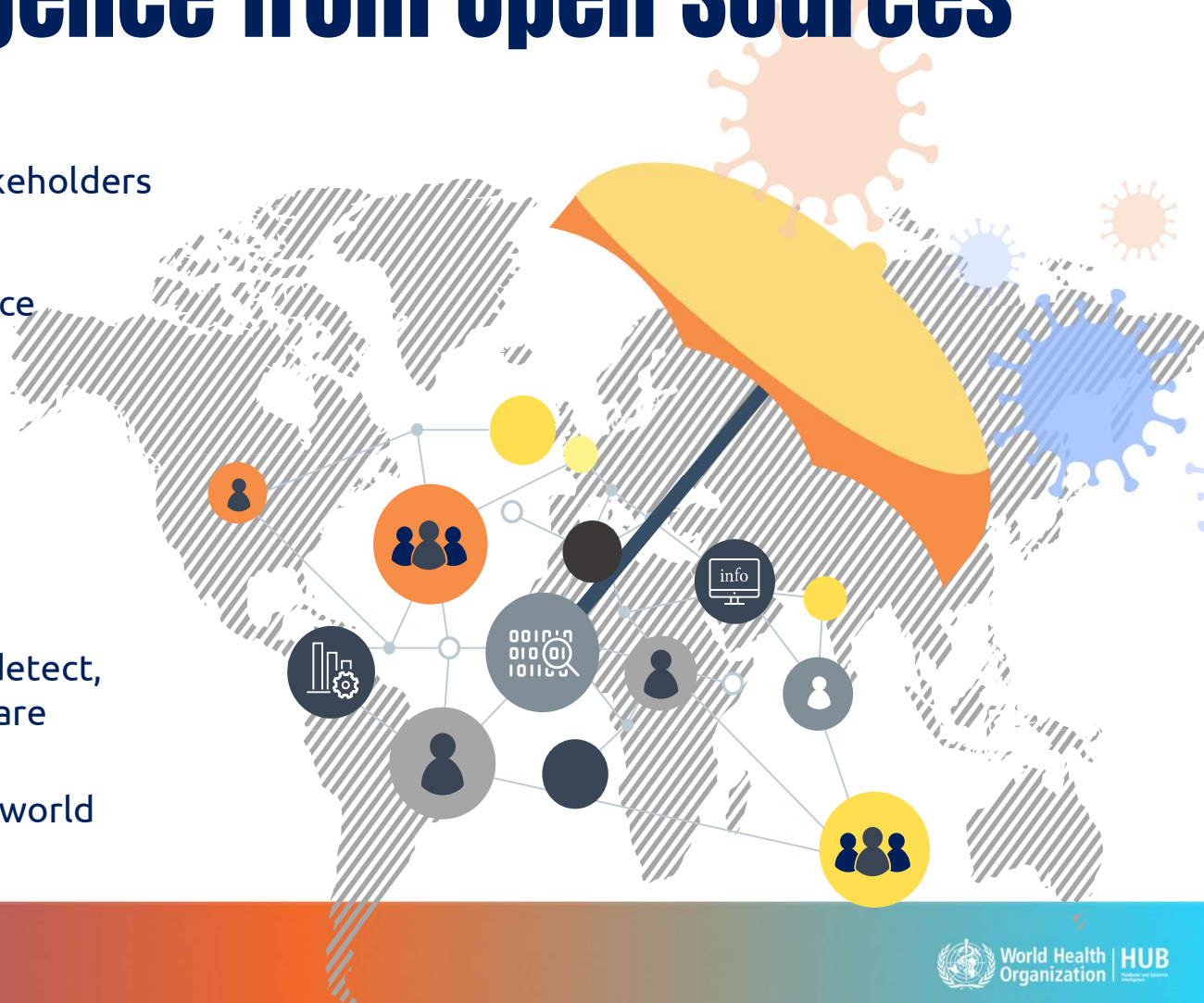
- Global collaboration between PH stakeholders
- One Health, all hazards approach
- Using publicly available information
- Complementing traditional surveillance

WHY

- mitigate and prevent public health emergencies

HOW

- provide tools and training to rapidly detect, contextualise, analyse, assess, and share information
- connect experts and data around the world



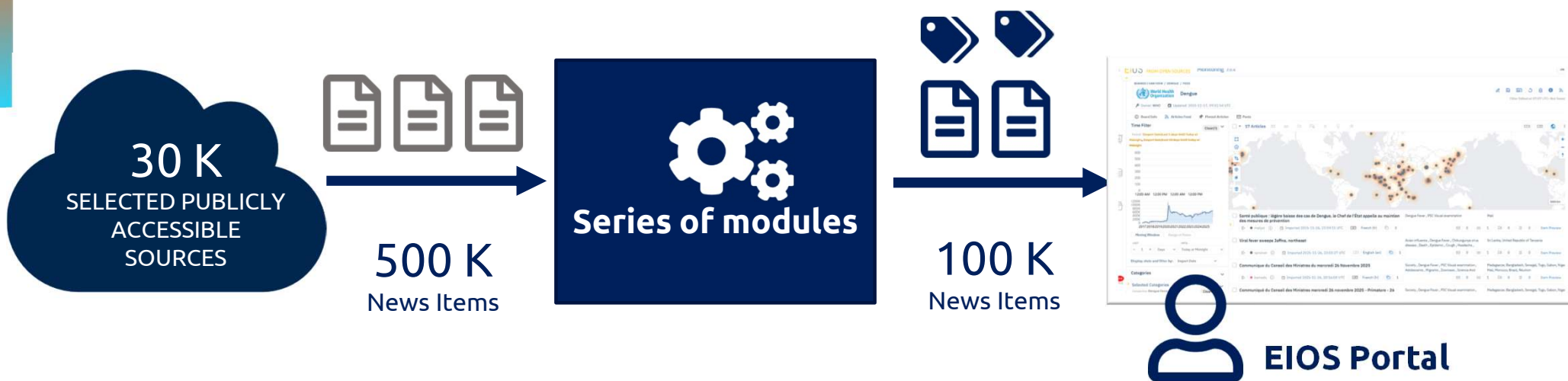


THE EIOS SYSTEM



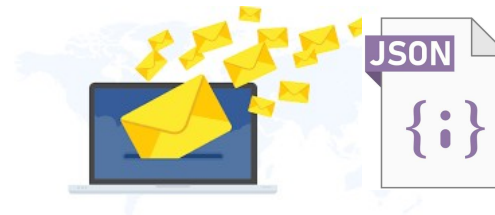
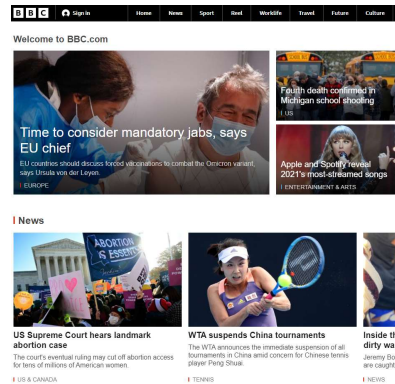
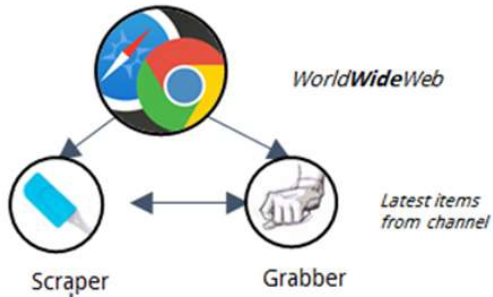
EIOS Data Flow

6



Broad range of sources

7



Collaborative Source Management

**A decentralised network of
Over 74 Source editors**

48 based at WHO
Headquarters, Regional
Offices, and WCOs

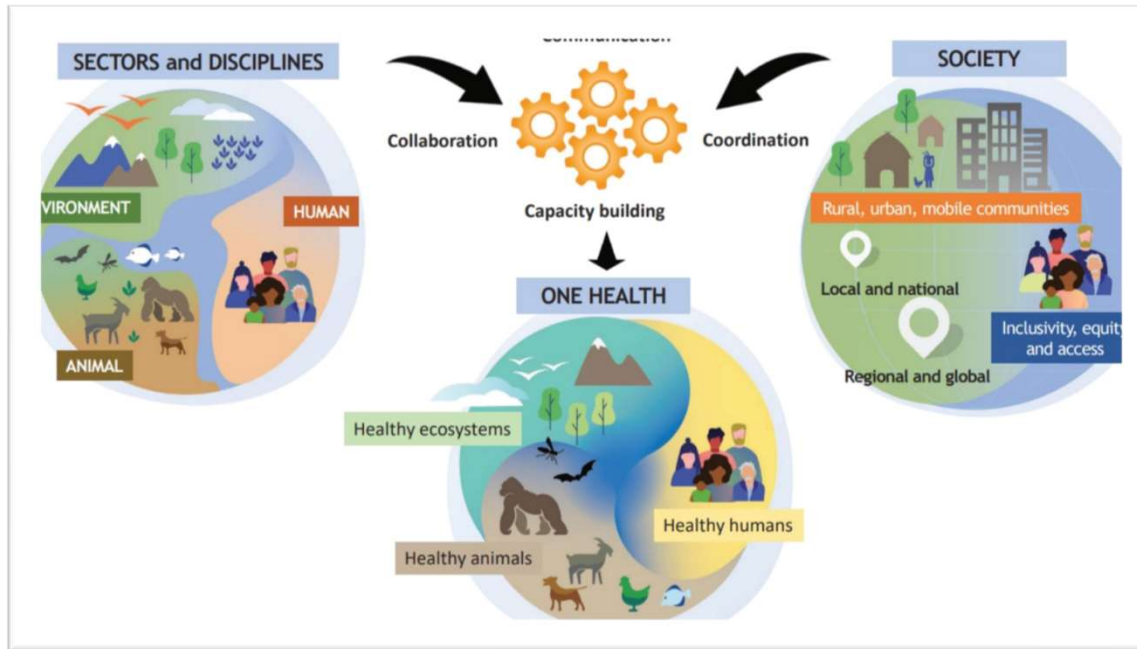
26 Partners include ECDC,
EFSA, RKI, and WOH and
others

Established workflows

Supported by trainings,
clinics and Ms Teams channel



Collaborative category Management and AI Integration



- **Animal Health: Partners include EFSA, WOA, FAO**
- **Plant Health: Involves EFSA, CABI, Australian DoA, Fisheries and Forestry**
- **Human Rights: supported by OHCHR**
- **Humanitarian hazards – EMRO PHI, HQ RHC, OHCHR**

Created and reviewed by expert groups and support from WHO regions

One-Health all hazards approach



Challenges / Opportunities

11



Where do I look?

No single starting point: signals sits across multiple articles, sites, boards, etc.



Too much to look through

The sheer volume buries the answer; reading everything isn't realistic.



What else is related?

Links between articles, publishers, in various timelines, contexts, etc



Now what?

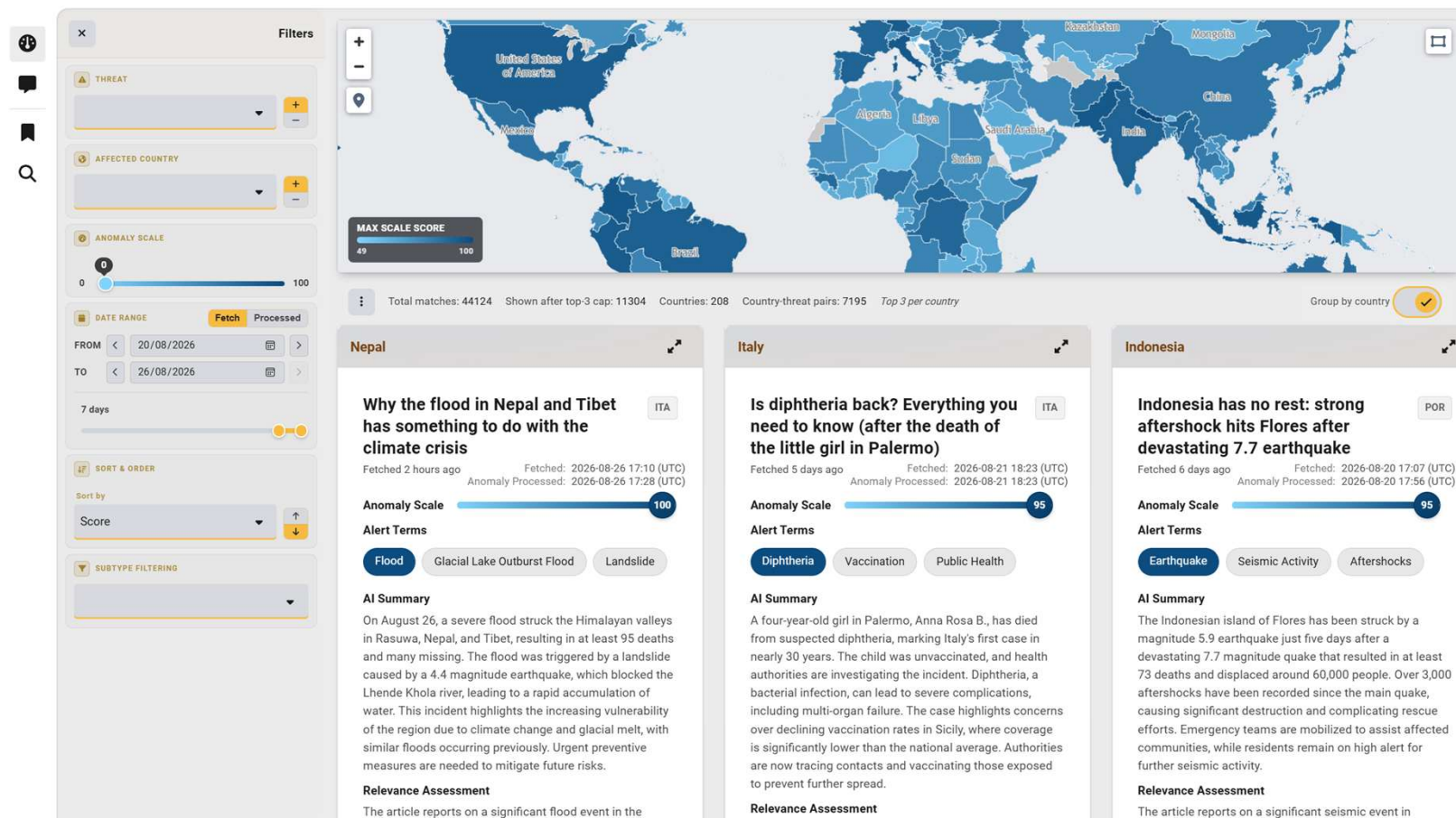
Findings rarely turn into a clear next step.

Every one of these friction points is an opportunity to make knowledge findable, connected and actionable.

Anomalies Dashboard

EIOS  Anomalies

KM



EIOS Companion

EIOS EIOS Companion



Search the Knowledge Base

Search Quality Mode

Auto

Send

Each query is processed independently with no conversation history retained between questions. Data coverage: Jul 2025 – Aug 2026 (2.0M articles)

Save prompt

Save result

What are the latest figures for suspected and confirmed case numbers and deaths regarding the ongoing Ebola outbreak?



Latest suspected and confirmed case numbers and deaths (Ebola)

Copy

Country	Confirmed Cases	Suspected Cases	Deaths	As-of date (snapshot)
Democratic Republic of the Congo	5,514 confirmed cases (as of 2026/08/24) [1]	—	2,642 deaths (as of 2026/08/24) [1]	2026-08-24

Figures shown are the latest snapshots available in the cited articles; suspected-case totals were not reported in the provided sources.

Multiple research workers reviewed articles covering the eastern Democratic Republic of the Congo Ebola outbreak to identify the most recent snapshots of confirmed cases, suspected cases, and deaths. The set of sources reviewed consistently provided the latest confirmed-case and death totals, but none of the provided extracts contained a clear, up-to-date “suspected cases” aggregate figure distinct from confirmed/reported-to-date totals.

As shown in the table above, the latest confirmed-case figure in the reviewed sources is 5,290 (as of the most recent “latest figures” snapshot in the 2026/08/21 article), with a corresponding death total of 2,516. A different, later “as of Saturday” snapshot in an adjacent 2026/08/24 report gives 5,514 cases and 2,642 deaths, indicating that these are point-in-time rollups rather than a single static total. Both snapshots are credible within their cited “as-of” framing, but they are not directly comparable as one number.

Notes on coverage

- Suspected-case totals: —. The reviewed extracts provide confirmed and death totals, plus weekly/other reporting metrics, but do not report a distinct suspected-case aggregate for the outbreak in the same “latest figures” style as confirmed cases.
- “Latest” vs “as of Saturday”: The sources include multiple dated snapshots. I’ve reflected the most recent dated confirmed-case and death figures, while noting that “as-of” dates differ across articles.

View sources (1)

EIOS Public Health Insights

Public Health Intelligence Insights

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Updated: 26/08/2026

Ebola outbreak in DRC and Uganda

AI-generated Insight

Ebola, Disease Outbreak, Vaccine Trial, Cholera, Conflict +17 more

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Summary

Insights

Executive Summary

The Bundibugyo ebolavirus outbreak in eastern Democratic Republic of the Congo and Uganda is a large, ongoing epidemic concentrated in eastern DRC with thousands of confirmed cases and deaths. Democratic Republic of the Congo health authorities report 5,290 confirmed cases, 2,516 deaths and 1,152 recoveries, and national data show a high case-fatality ratio among confirmed cases. Transmission is concentrated in Ituri and has spread across North Kivu, South Kivu, Haut-Uele and Tshopo provinces, while conflict-driven displacement, crowded reception sites and weak health infrastructure are sustaining community transmission and hindering detection and care.

Conflict, gaps in strain-specific vaccines and widespread mistrust are driving the outbreak and have led to attacks on health teams and heavy infection among health workers, reducing response capacity. National and international teams continue vaccination, contact tracing and case management where security allows, but workforce losses, limited community coverage and large displaced populations raise the risk of undetected transmission and cross-border spread, so additional funding, staffing and secure access to remote and displaced communities are required to prevent further expansion.



Image from source article

Timeline

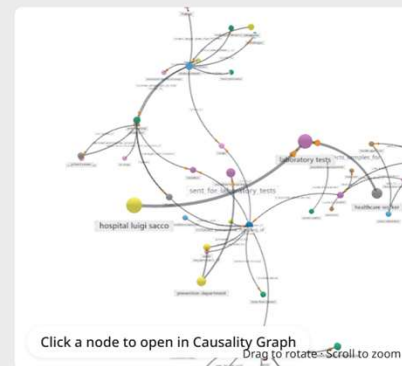
7586

WED, 26 AUG 2026 TIME IN UTC 159

- 19:39 No changes Ebola, suspected case in Trentino: the patient has returned from Congo. Placed...
- 19:35 No changes Health: Congo's Ebola epidemic 'growing exponentially', UN
- 19:09 No changes DR Congo: Ebola death toll exceeds 2,500
- 19:09 No changes Ebola, Congo, France, ebola, kongko, gallia
- 19:03 No changes The Ebola epidemic in Congo, at a critical level. WHO chief: "It's spreading faster..."
- 18:54 No changes Ebola soars in Congo: 2,500 dead and the situation remains out of control
- 18:45 No changes Just in-AboardThe deadliest Ebola outbreak ever in Congo: why is that?
- 18:20 No changes The Ebola alarm is growing! Frightening warning from WHO: The risk is too high
- 18:20 No changes The Ebola virus is spreading at a frightening speed in Congo - half of the...
- 18:08 3 features updated The number of cases in the Ebola epidemic in the Democratic Republic of the Congo...
- 17:48 No changes The Ebola virus outbreak in DR Congo is spreading exponentially
- 17:27 No changes Ebola, Up, 2 500, Congo, ebola, pano, 2 500, kongko
- 17:27 No changes Ebola vaccine trial to start in DR Congo as

Related Connections

From this Insight's most recent articles



KM

THE EIOS INITIATIVE IS BUILT ON THREE PILLARS

Collaboration



Community



Technology

STAKEHOLDERS



Scale-up: The EIOS system is used today by 121 Member States and 31 regional and international organizations

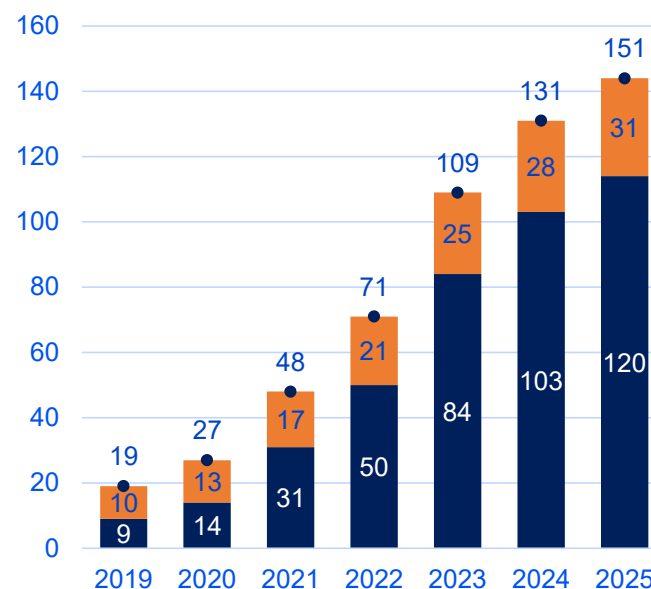
Countries that have joined the EIOS initiative as of December 2025



Data Source: EIOS.
Map Production: WHO Hub
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The designations employed and the presentation of the material in this publication do not imply the expression of any opinion whatsoever on the part of WHO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.

EIOS Communities: Cumulative Growth



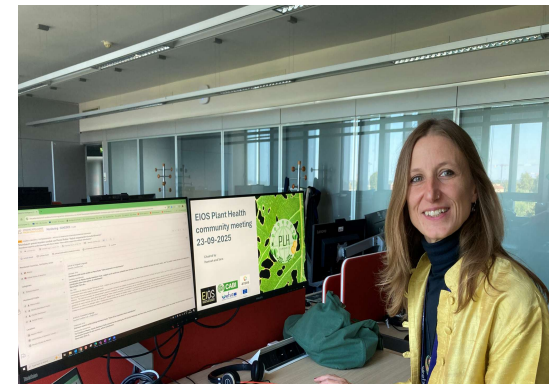
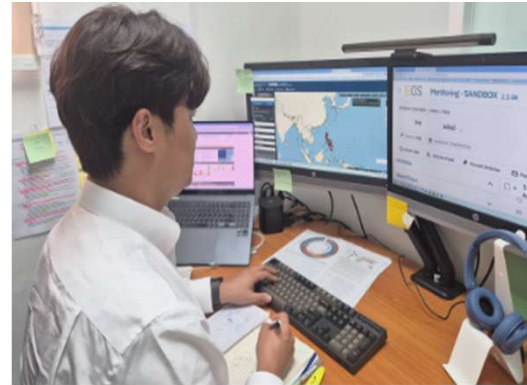
Communities can be Member States, regional CDCs, as well as other organizations and networks. Relevant entities, including countries, can join the initiative individually or as part of a network (e.g. GHSI, Plant Health, etc.)

How to collaborate with EIOS?

If you are curious about whether EIOS is for you or could be helpful for the work you do, contact us!
eios@who.int

EIOS-WPRO@who.int, EIOS-AFRO@who.int, EIOS-SEARO@who.int,
EIOS-EMRO@who.int, EIOS-EURO@who.int,
eios@paho.org

WOAH Contacts: j.lusat@woah.org,
p.tizzani@woah.org



NEW



Advanced Epidemic Intelligence from Open Sources (EIOS)

Public Health Intelligence in Practice

For public health professionals and the EIOS community of practice: master the system's advanced functions and turn open-source signals into timely, evidence-based action.

 10 modules

 Self-paced

 English

Enrol now on WHO Academy

Advanced Epidemic Intelligence from Open Sources (EIOS): Public Health Intelligence in Practice

 10 Modules



[Register](#) to start learning

Enroll

 Enroll by Jun 28th, 2029

 Self-paced

 English

 Started on Jul 28th, 2026
Ending on Jul 28th, 2029

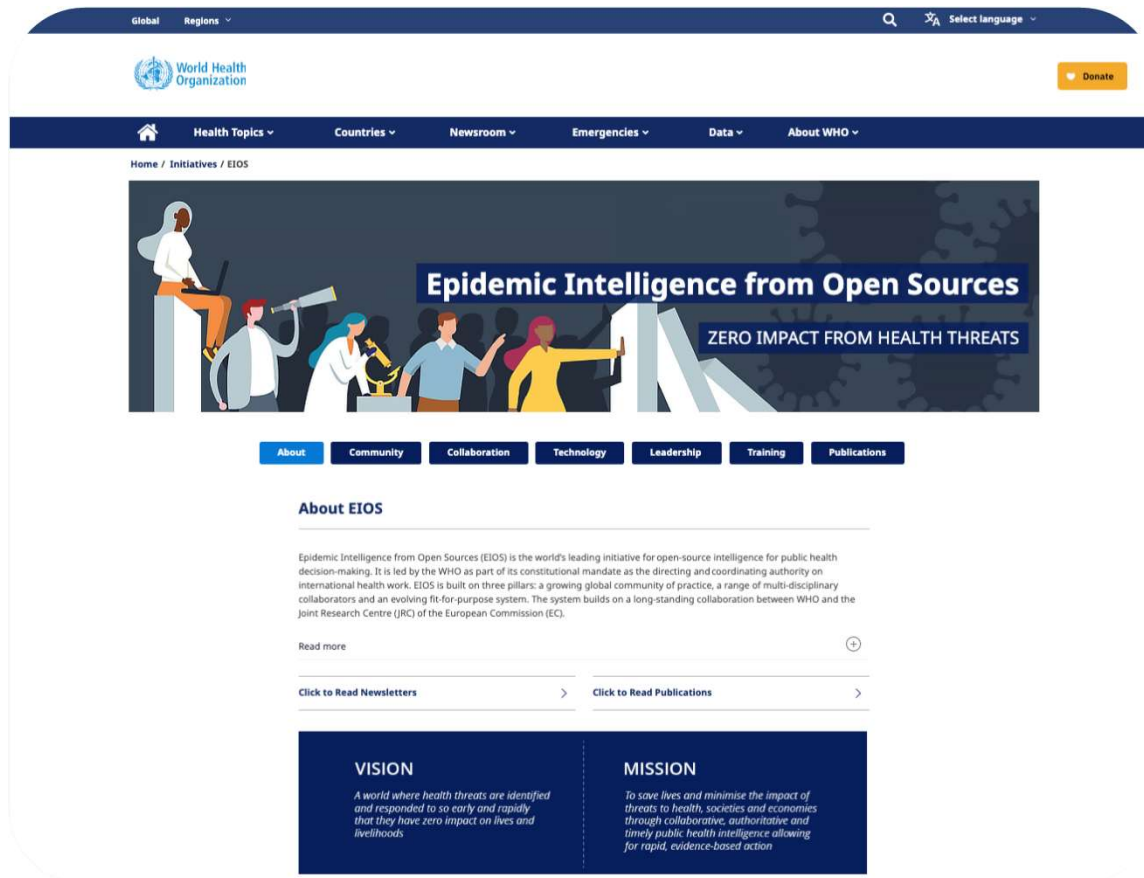
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Overview

Modules

https://whoacademy.org/coursewares/course-v1:WHOA+0071_ADVEIOS_EN+2026_Q2

For more information, visit our website!



www.who.int/eios



World Health
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Pandemic and Epidemic
Intelligence

THANK YOU!

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EPIDEMIC INTELLIGENCE
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A GLOBAL INITIATIVE LED BY THE
WORLD HEALTH ORGANIZATION