

EIOS
EPIDEMIC INTELLIGENCE
FROM OPEN SOURCES

2024 
EIOS GTM
SENEGAL

2024 **EIOS GLOBAL** **TECHNICAL** **MEETING**



Funded by
the European Union



World Health
Organization



EIOS

EPIDEMIC INTELLIGENCE
FROM OPEN SOURCES

2024 
**EIOS GTM
SENEGAL**

2024 **EIOS GLOBAL TECHNICAL MEETING**

**The Future of Public
Health Intelligence**



Funded by
the European Union



**World Health
Organization**

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Mr Faye EL Hadji Issa

Phone: (+221) 78 7120570

Email: fayee@who.int

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By following these guidelines, you help ensure a safe and healthy environment for everyone. Thank you for your cooperation and commitment to our collective well-being.



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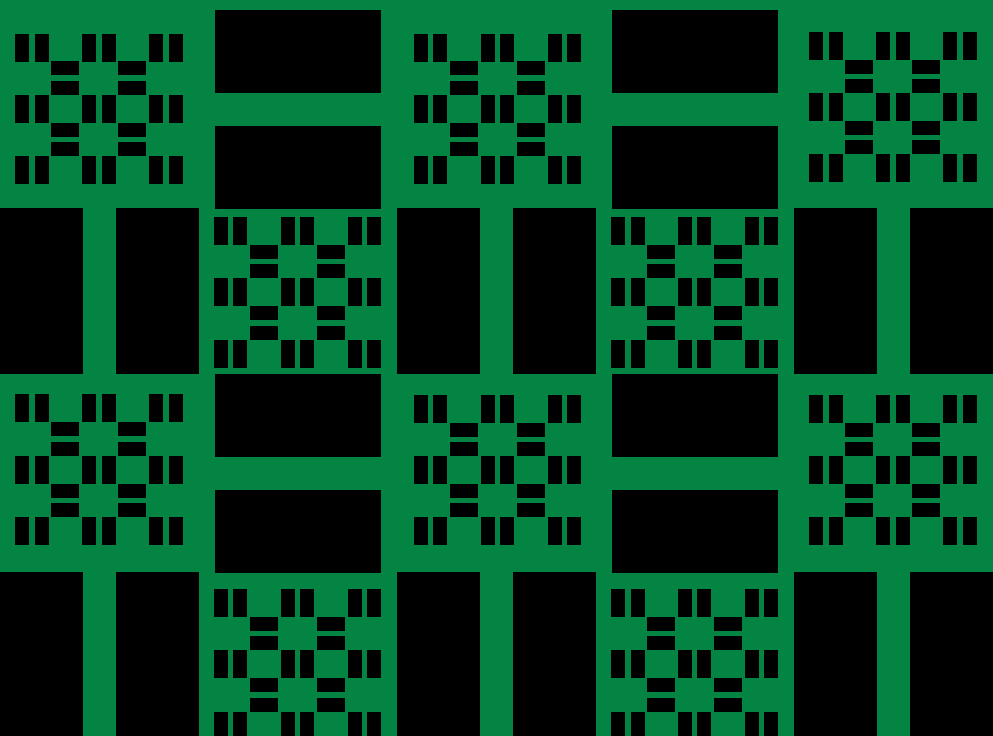
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SECTION 01: WELCOME

The Future of Public Health Intelligence

Welcome

Dear Colleagues, Welcome to Senegal for the fifth EIOS Global Technical Meeting (GTM)!

Your presence here is a testament to the Epidemic Intelligence from Open Sources (EIOS) initiative's increasing relevance and remarkable growth. Recognising the need to improve the early detection, verification, assessment and communication of public health signals and events by leveraging the potential of open-source intelligence, EIOS was formed with an initial seven organisations and the Global Health Security Initiative in 2017. It was not until 2019 that the first 9 Member States joined. Today, just 5 years later, the EIOS initiative connects more than 100 Member States and over 25 organisations and networks who contribute to and rely on the EIOS system, sharing expertise across regions. Since the first GTM in 2018, this meeting has tripled in size, which shows our community's commitment to this important work.

As the world and our potential to harness the power of technology to improve decision-making evolve, so must EIOS to continue to be the world's leading initiative for open-source intelligence for public health decision-making. At this year's EIOS GTM, we will be focusing on three themes – advancing Artificial Intelligence, equipping our workforce for the future, and boosting public health intelligence capacities to enhance Collaborative Surveillance.

While technical innovation propels us forward, the strength of EIOS lies in its communities. The relationships forged here are fundamental to our shared success. I hope this gathering deepens those connections and inspires us as we work toward a world where health threats are detected and addressed early such that they have zero impact on our lives and livelihoods.

During this year's GTM, we are also celebrating the one-year anniversary of the WHO Regional Emergency Hub in Dakar, which is becoming a centre of excellence in public health intelligence and emergency response



for Africa. Together with the WHO Emergency Hubs across the world, including the WHO Hub for Pandemic and Epidemic Intelligence in Berlin, we will continue to foster fruitful collaborations, bridging expertise across regions to strengthen global epidemic and pandemic preparedness and response. This is just one example of how the WHO's Health Emergencies Programme is innovating and evolving as it seeks to protect the world from the threats that we face.

I would like to express my gratitude to our co-hosts, the WHO Regional Office for Africa, and to our partners and supporters, including the European Health Emergency Preparedness and Response Authority (HERA), whose generous support has been instrumental in this meeting.

Thank you for being here, for your commitment to the EIOS initiative, and for the work we can only accomplish together.

Dr Chikwe Ihekweazu

Deputy Executive Director, WHO Health Emergencies Programme

World Health Organization

Distinguished Member States representatives, dear partners and experts, esteemed colleagues,

On behalf of the Regional Director for Africa,
Dr Matshidiso Moeti, I would like to welcome you all to
the WHO African Region and to the 2024 EIOS Global
Technical Meeting.

For those who do not live in Senegal, thank you for having
travelled all these miles to attend this three-day meeting
of utmost importance to global health security.

Major pandemics such as COVID-19 and Mpox have
shown us that the growing interconnectedness and
globalized nature of today's world contribute to the
rapid spread of diseases across the world. Therefore,
strengthening early detection and rapid response to
public health threats is paramount in mitigating their
impact on global health security as well as the social and
economic development of our countries.

The Epidemic Intelligence from Open Sources initiative
provides an innovative and vital approach to public health
intelligence, harnessing open-source data to complement
traditional surveillance systems and enhancing our
collective ability to identify, verify, assess, communicate
and respond to public health threats using a unified
"All-hazards One Health" approach.

Since 2018, the WHO Regional Office for Africa has been
part of the Epidemic Intelligence from Open Sources
initiative, which has undoubtedly played a crucial role in
enhancing public health intelligence in our region. The
EIOS system has served as the first source of information
for epidemiologists at WHO Regional Office for Africa
for close to 50% of the public health events reported by
Member States in the African Region from 2018 to 2023.
To date, over 80% (39 out of 47) Member States in the



African region have joined the EIOS initiative, recognizing
its vital contribution to our regional strategy for health
security and emergencies 2022 to 2030.

We are deeply honoured to host this fifth edition of the
EIOS Global Technical Meeting in the African Region. As
we all know, the EIOS initiative is not just a system, it is
also about a global community of experts and networks
collaborating to safeguard public health. This meeting is
an opportunity for us to strengthen collaboration, share
ideas, align on priorities, and work together to drive
forward the EIOS initiative globally.

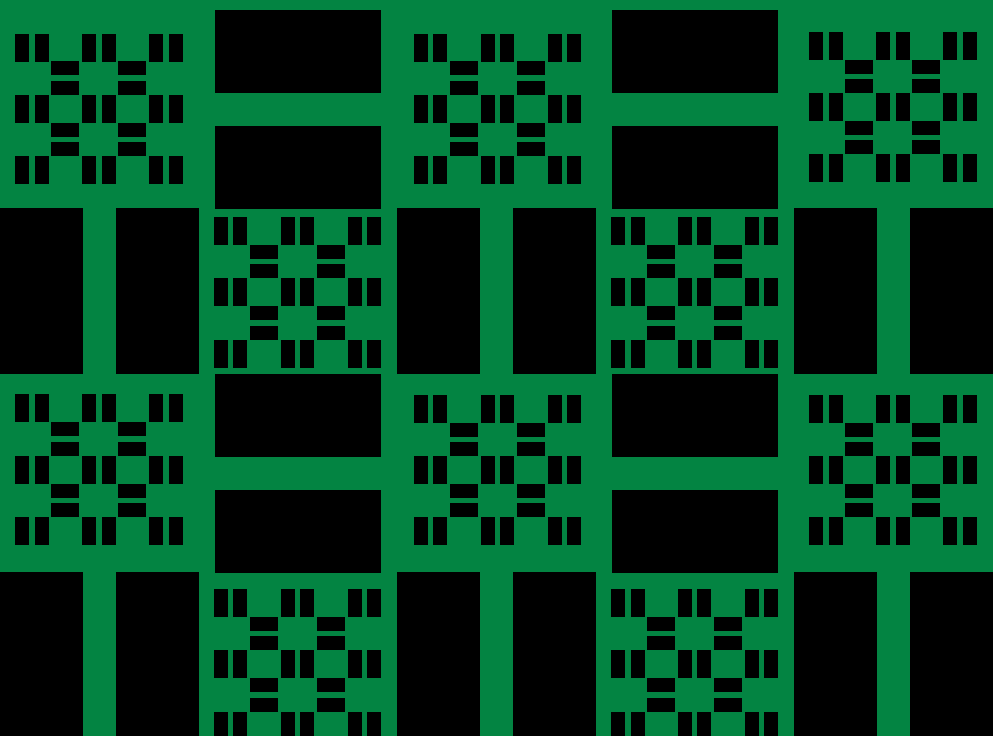
I wish you all a nice stay in Senegal and fruitful
discussions ahead.

Thank you.

Dr Abdou Salam Gueye

Regional Emergency Director

World Health Organization, Regional Office for Africa



SECTION 02: THE EIOS INITIATIVE

The Future of Public Health Intelligence



The EIOS Initiative

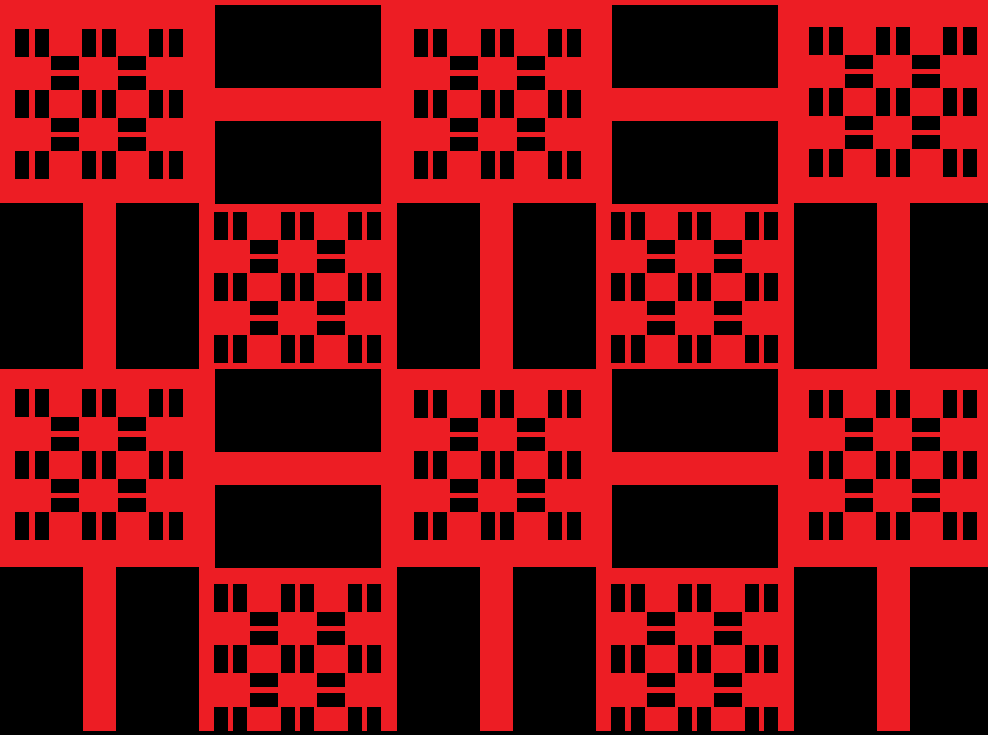
The Epidemic Intelligence from Open Sources (EIOS) initiative is a unique global collaboration designed to create a unified, all-hazards, One Health approach for the early detection, verification, assessment, and communication of public health threats using publicly available information. It integrates new and existing initiatives, networks, and systems, aiming to save lives through early threat detection and analysis, leading to timely interventions. Central to EIOS is the creation of a community of practice (CoP) for public health intelligence (PHI), encompassing Member States, organizations, networks and other collaborators.

The EIOS community is supported by an adaptable and evolving system that unites other systems and information sources and connects partners and collaborators around the world. The EIOS system, developed through a collaboration between WHO and the Joint Research Centre (JRC) of the European Commission, promotes innovative development and standardizes PHI efforts across organizations and jurisdictions. It leverages technology to harness open-source data for near real-time detection and assessment of public health threats, providing decision-makers with critical time advantages for rapid and effective action.

Formalized in November 2017 under WHO's Health Emergencies Programme (WHE), EIOS emerged from a joint commitment by the Global Health Security Initiative, JRC, and WHO to enhance global health security by improving epidemic threat assessment. During the seventy-first World Health Assembly in May 2018, EIOS was recognized as a key initiative within a five-year global strategic plan to enhance public health preparedness and response and support the implementation of the International Health Regulations. Today, EIOS is the world's leading initiative for open-source intelligence in public health decision-making. To date, the EIOS system includes several thousand users across more than 120 user groups or "communities," including more than 100 WHO Member States

The EIOS Core Team (ECT), based at the WHO Hub for Pandemic and Epidemic Intelligence in Berlin, Germany, oversees the Initiative's global coordination. The ECT – part of the Intelligence Innovation and Integration (III) unit of the Department of Pandemic and Epidemic Intelligence Systems (ISY) – works alongside professionals in all six WHO regional offices and EIOS focal points at collaborating organizations, forming the Global EIOS Support Team (GEST). A rotating Coordination Group (CG) provides strategic guidance and meets quarterly to discuss developments and priorities. EIOS's global CoP plays a crucial role in strengthening PHI practices by bringing together professionals from diverse entities and disciplines, promoting collaboration, and fostering information sharing through regular engagements and coordinated activities. The initiative's vision and mission align with the overarching goal of collaborative surveillance, aiming to fortify PHI practices to mitigate health threats and improve global public health intelligence.

By being here with us at the EIOS GTM, you are an integral part of this growing and evolving global initiative. From all of us on the ECT, thank you for partnering with us. We hope that you find this year's EIOS Global Technical Meeting informative and thought-provoking, a way to strengthen the global PHI network, and a catalyst for collaborative innovation, surveillance and public health intelligence. Welcome!



DAY 1: TUESDAY

The Future of Public Health Intelligence



Agenda Overview Day 1

Tuesday, 10 December 2024

Time	Activity
07:00	Transport Saly to Diamniadio
08:30	Arrival & Welcome Coffee (WHO Hub Dakar)
09:00	Welcome & Opening Remarks
09:30	Catalysts for Change: Building the Future of Public Health Intelligence
10:40	WHO Regional Emergency Hub – Open House
12:00	Transport back to Saly
13:00	Break – Lunch (Restaurant at Palm Beach)
14:45	Programme resumes at Palm Beach (Teranga Meeting Room)
15:15	Intelligence in Action: National Perspectives in PHI
16:30	PHI Operational Framework #1: Setting the Stage
17:00	Wrap up Day 1
17:45	EIOS System Demo (Optional)
18:30	End of Day



Welcome Ceremony – 2024 EIOS GTM

Tuesday

10 December 2024

09:00 – 09:30

Welcome to the 2024 EIOS Global Technical Meeting in Senegal!

We are thrilled to be co-hosting this year's GTM with our colleagues from the WHO Regional Office for Africa and to be able to extend a very warm welcome to you from the newly established WHO Regional Emergency Hub in Diamniadio. We are especially honoured to welcome distinguished dignitaries from the Ministry of Health and Social Action of Senegal, the Health Emergency Preparedness and Response Authority (HERA) of the European Commission and all three levels of WHO. As committed partners in the EIOS initiative, their joint leadership strengthens our collective efforts to enhance early detection and response to public health threats across the region and beyond.

Host



Chiedza Muguti

Business Analyst

WHO Health Emergencies Programme

Speakers



Chikwe Ihekweazu

Deputy Executive Director

WHO Health Emergencies
Programme



Abdou Salam Gueye

Regional Emergency Director

WHO Regional Office for Africa
(AFRO)



Hon. Ibrahima Sy

Minister of Health

Ministry of Health and Social Action,
Senegal



Jean-Marie Vianny Yameogo

WHO Representative

WHO Country Office Senegal



Laurent Muschel

Director General

Health Emergency Preparedness
and Response Authority (HERA),
European Commission
[Video Message]

Catalysts for Change: Building the Future of Public Health Intelligence

Tuesday

10 December 2024

09:30 – 10:30

In this series of signature talks, key leaders introduce pivotal projects and developments that frame the theme of this year's GTM: the future of public health intelligence. From the EIOS initiative's expanding impact and future strategy, and data.org's Epiverse launching on the African continent, to the vital role of the WHO Regional Emergency Hub in Dakar, each session highlights a critical piece of our collective mission. Together, these projects form a cohesive vision to enhance surveillance, foster regional resilience, and drive innovative responses to health threats across Africa and beyond.

Chair



Yasmin Rabiyan

Engagement Officer

Intelligence Innovation and Integration (III)

WHO Health Emergencies Programme

Speakers

The EIOS Initiative and GTM 2024: The Future of Public Health Intelligence



Philip AbdelMalik

Unit Head

Intelligence Innovation and Integration (III)

WHO Health Emergencies Programme

Strengthening Public Health Intelligence: The EIOS Initiative in the African Region



Etien Koua

Programme Area Manager

Health Emergency Information and Risk Assessment (HIM)

WHO Regional Office for Africa (AFRO)

WHO Regional Emergency Hub Dakar: Mitigating the Impact of Public Health Threats in the African Region



Thierno Balde

Head and Coordinator

WHO Regional Emergency Hub Dakar
WHO Regional Office for Africa (AFRO)

Official Launch of Epiverse in Africa



Danil Mikhailov

Executive Director

data.org



Maguette Ndong

Technical Project Manager

data.org

WHO Regional Emergency Hub Dakar – Open House

Tuesday

10 December 2024

10:40 – 12:00

The Open House event will showcase WHO's Emergency Preparedness and Response work in the African region to participants of the 2024 EIOS Global Technical Meeting. In addition to GTM attendees – which includes representatives from Ministries of Health, Public Health Institutes, and similar organizations – this event also welcomes local representatives from multilateral and bilateral institutions, global health partners, foreign missions, health experts, and humanitarian organizations. Participants will explore the WHO Regional Emergency Hub, interact with technical areas, and learn about innovations to enhance preparedness, detection, and response to public health events. Highlights include exhibition zones, tool demonstrations, facility tours, and networking opportunities. The event aims to foster collaboration, showcase critical efforts, and identify opportunities for investment and partnership to enhance emergency preparedness and response capacities across the African region.

Following the Open House, shuttles will transport participants back to Saly, where the remainder of the program will take place. Lunch will be served at 13:00, and we ask all participants to gather in the main conference room at the Palm Beach Hotel Resort & Spa by 15:00 to ensure they don't miss the program overview and upcoming session.



© WHO Regional Emergency Hub, Dakar

Intelligence in Action: National Perspectives in PHI

Tuesday

10 December 2024

15:15 – 16:30

This session will set the stage by examining the essential role of public health intelligence (PHI) in national and regional preparedness and response, focusing on the importance of strengthening PHI functions wherever they are situated and how EIOS connects and integrates with other critical systems. Representatives from national public health agencies (NPHAs) and Ministries of Health (MoHs) will share their experiences and perspectives on connecting PHI and surveillance functions with EIOS within their organizations. As dozens of Member States build their own PHI and surveillance capabilities, panelists will explore what is needed to achieve cohesive, coordinated intelligence generation that can effectively detect and mitigate public health threats. This discussion will highlight how different setups and coordination approaches impact speed, responsiveness, and global preparedness for future pandemics.

Chair



Etien Koua

Programme Area Manager

Health Emergency Information and Risk Assessment (HIM)
WHO Regional Office for Africa (AFRO)

Presenters



Ana Tatulashvili

Head

Public Health Emergency
Preparedness and Response Division
National Center for Disease Control
and Public Health, Georgia



Mohammad Ismaili Alaoui

Epidemiologist

Public Health Emergency Operations
Center (PHEOC)
Ministry of Health & Social Protection,
Morocco



Tomoe Shimada

Chief

Division for Epidemic Intelligence
Training and Practice
National Institute of Infectious
Diseases, Japan



Alexander Torres

Epidemiology Analyst

Ministry of Public Health,
Dominican Republic



Rassidatou Natchaba

Epidemiologist

Integrated Health Emergencies
Surveillance Division
Ministry of Health, Togo



Pornpitak Panlar

Director

Division of Disease Control in
Emergencies
Ministry of Public Health, Thailand

PHI Operational Framework #1: Setting the Stage

Tuesday

10 December 2024

16:30 – 17:00

As NPHAs continue to expand and strengthen their intelligence capabilities in alignment with IHR recommendations, it becomes more crucial to harmonise our PHI thinking while ensuring its contextual relevance. This first session of a three-day workshop running throughout this year's GTM will contribute to the development of a WHO-led framework to create a common language and understanding. This framework will build on an array of guidance documents that exist to support global and national public health intelligence operations.

In this first session, members of WHO's Public Health Intelligence unit will provide the broader context within the Collaborative Surveillance landscape and familiarize participants with the scope of work planned. Participants will identify opportunities and challenges for the operationalization of public health intelligence to inform the discussion on day 2.

Speakers



Esther Hamblion

Unit Head

Public Health Intelligence Unit

WHO Health Emergencies Programme



Blanche Greene-Cramer

Team Lead, Alert and Verification

Public Health Intelligence Unit

WHO Health Emergencies
Programme

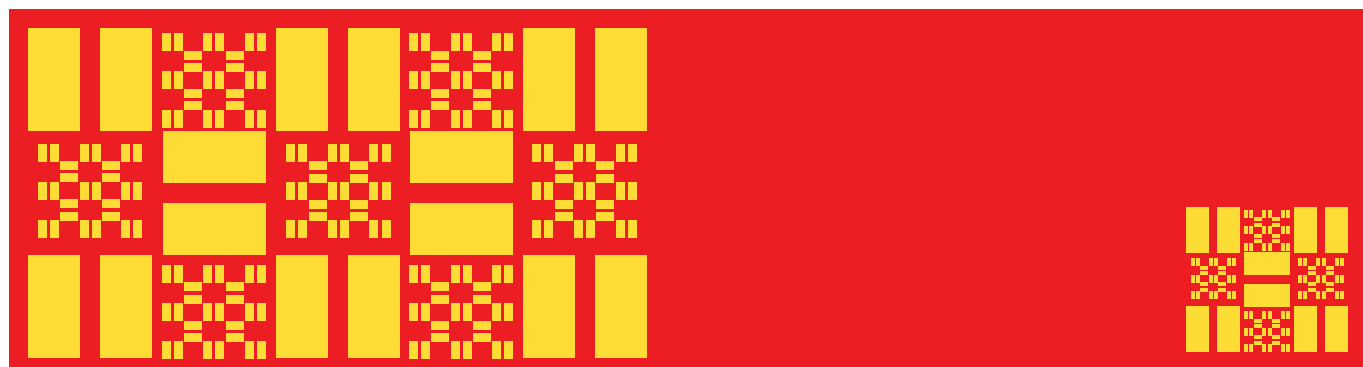


Lindsay Whitmore

Head

Coordinated Threat Assessment
Division

Public Health Agency Canada (PHAC)



EIOS System Demo (Optional)

Tuesday

10 December 2024

17:45 – 18:30

Join us on an exciting journey with our EIOS beginner demo! In this session, experienced EIOS trainers will guide you through the EIOS system and its various functions and features. This session is perfect for anyone new to the EIOS system or simply curious to learn more. Whether you're a new user or just exploring, come and discover the potential of the EIOS system!

Available in English (main room) and French (side room)

Facilitators



Raquel Medialdea Carrera

Training Officer

Intelligence Innovation and Integration (III)
WHO Health Emergencies Programme



Stefany Ildefonso

Public Health Intelligence Consultant

Health Emergency Information and Risk Assessment
WHO Regional Office for South-East Asia (SEARO)



Joyce Nguna

EIOS Focal Point AFRO (South Africa)

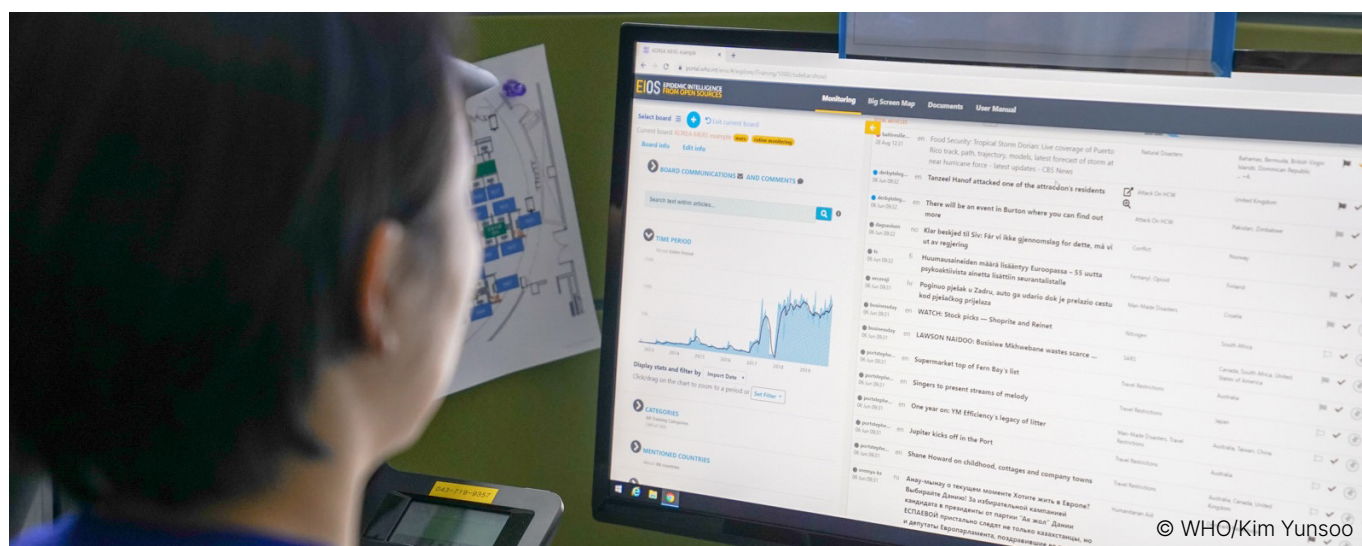
WHO Regional Emergency Hub, Nairobi
WHO Regional Office for Africa (AFRO)



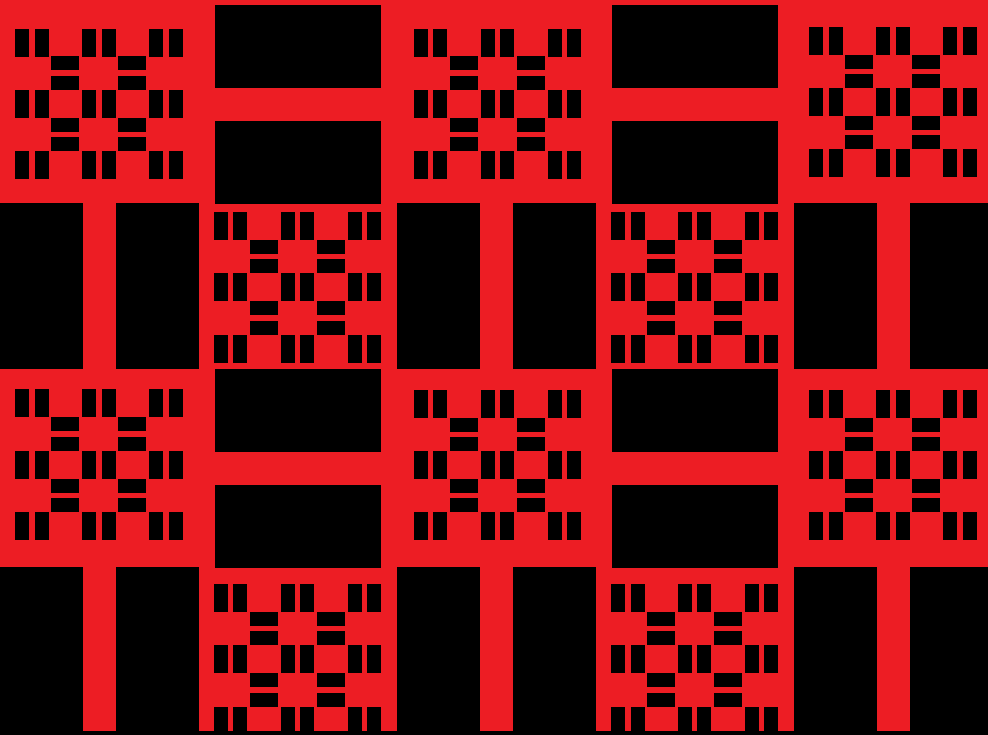
Freddy Kambale

EIOS Focal Point AFRO (West Africa)

WHO Regional Emergency Hub, Dakar
WHO Regional Office for Africa (AFRO)



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DAY 2: WEDNESDAY

The Future of Public Health Intelligence



Agenda Overview Day 2

Wednesday, 11 December 2024

Time	Activity
07:00	Baobab Run and Walk (Optional)
08:30	Arrival & Sign in
09:00	Welcome Day 2
09:30	Beyond the Horizon: Unleashing AI's Potential for Public Health
10:00	Collaboration for Good: Connecting Minds, Saving Lives
10:45	Break
11:15	Getting Smarter: Tech Innovations for EIOS
12:30	Break – Lunch
14:00	Inclusive Intelligence: AI for Equitable Public Health
15:15	Break
15:45	PHI Operational Framework #2: Opportunities and Challenges – Workshop
17:15	Wrap up Day 2
17:45	EIOS System Clinic (Optional)
19:00	Evening Event (Palm Beach - pool side)

Beyond the Horizon: Unleashing AI's Potential for Public Health

Wednesday

11 December 2024

09:30 – 10:00

This keynote will inspire you to think beyond the conventional and imagine groundbreaking AI applications in public health. Discover how AI can enhance disease prediction, support real-time monitoring, and transform health data into actionable insights. Be prepared to explore innovative solutions that could redefine public health intelligence and consider strategies for making the most of this new technology. Join us to envision a healthier world powered by AI!

Keynote Speaker

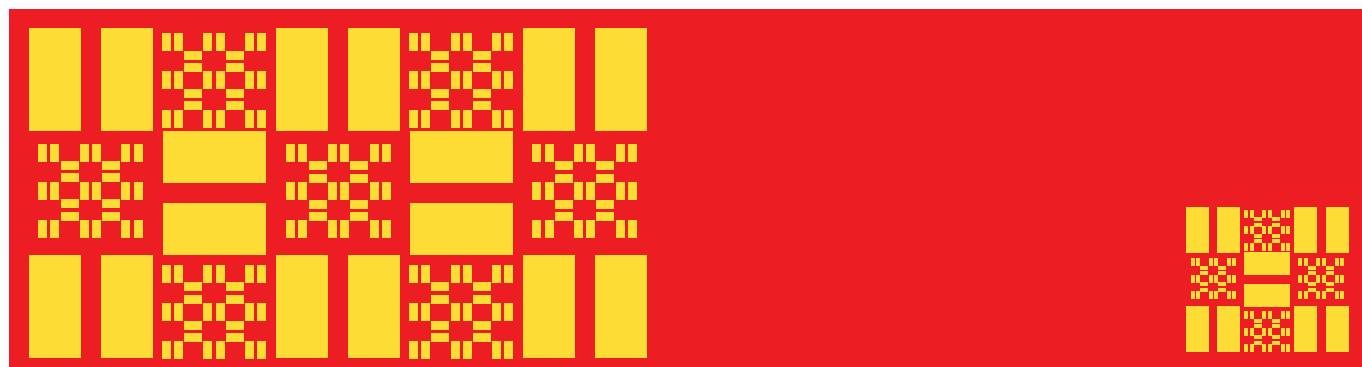


Katherine Hoffmann Pham

AI Advisor

Office of Innovation

United Nations Children's Fund (UNICEF)



Collaboration for Good: Connecting Minds, Saving Lives

Wednesday

11 December 2024

10:00 – 10:45

In this session, we explore how AI and technology solutions, fueled by collaboration, can and are transforming public health intelligence at community, regional, and global levels. Speakers will share insights on the role of data science in driving social impact, the power of collaborative platforms for exchanging models and knowledge, and how innovation through collaboration has been addressing various public health challenges.

Presenters



Daniela Paolotti

Senior Research Scientist

Digital Epidemiology Laboratory and
Data Science for Social Impact
Institute for Scientific Interchange
Foundation (ISI)



Julia Fitzner

Unit Head

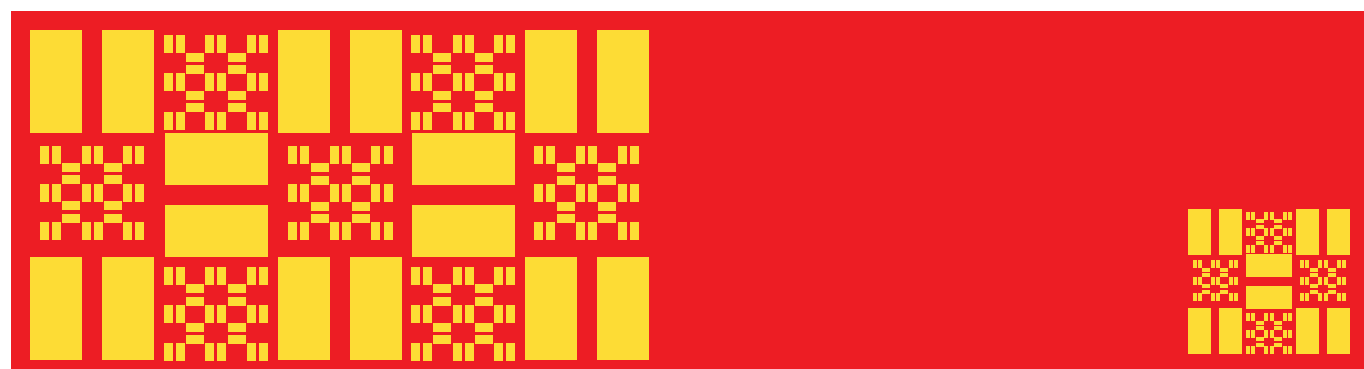
Insights and Analytics
WHO Health Emergencies
Programme



Nomita Divi

Executive Director

Ending Pandemics



Getting Smarter: Tech Innovations for EIOS

Wednesday

11 December 2024

11:15 – 12:30

This session will highlight the latest work and technological innovations for the EIOS system, focusing on the upcoming release of EIOS system v2.0. Speakers will provide a preview of the main features included in v2.0's release while offering an overview of advanced analytical capabilities currently under development, to be introduced in future iterations. These upcoming enhancements include noise reduction, speech-to-text integration, effective multilingual semantic search across large datasets, and AI tools for discovering new content and extracting numerical data from published documents and websites. While EIOS system v2.0 lays the foundation, this session will offer a glimpse into the system's future capabilities and ongoing advancements.

Chair



Johannes Schnitzler

Medical Officer

Intelligence Innovation and Integration (III)
WHO Health Emergencies Programme

Speakers



Luigi Spagnolo

IT Project Assistant

Joint Research Centre of the
European Commission (JRC)



Justice Agbadu

Data Scientist

Robert Koch Institute (RKI)



Jaikumar Sabanayagam

Information System Officer

UN Office of Information and
Communications Technology (OICT)



Godwin Ubong Akpan

Regional Lead

Information Systems and Data
Analytics
WHO Regional Office for Africa (AFRO)



Jon Anthony

Founder

Adappt

Inclusive Intelligence: Equitable AI for Public Health

Wednesday

11 December 2024

14:00 – 15:15

As we look to the future of public health intelligence, it's time to explore the latest innovations that can extend our reach beyond the EIOS system. This session will highlight AI-driven solutions designed to enhance support for low-resource languages, rank and forecast critical biothreats, and shape governance and policy frameworks for responsible AI use. These advancements and critical discussions are not only about complementing and expanding the EIOS system but also about fostering inclusive and equitable health outcomes on a global scale.

After hearing from our speakers, join us for an open Q&A and panel discussion, where you'll have the opportunity to engage directly with experts, discuss real-world applications, the role of human expertise and reflect on the day's key ideas. Together, we'll explore how AI can drive forward a vision of public health that truly serves all.

Chair



Stéphane Ghozzi

Data Scientist

Intelligence Innovation and Integration (III)
WHO Health Emergencies Programme

Panel Moderator



Johannes Schnitzler

Medical Officer

Intelligence Innovation and Integration (III)
WHO Health Emergencies Programme

Speakers



Derguene Mbaye

General Manager, AI & NLP Research
Galsen AI



Larry Madoff

Senior Advisor

Biothreats Emergence, Analysis and
Communications Network (BEACON)



Seydina Ndiaye

Advisor

Secretary-General's High-Level
Advisory Body on Artificial Intelligence
United Nations



Katherine Hoffmann Pham

AI Advisor

Office of Innovation
United Nations Children's Fund (UNICEF)

PHI Operational Framework #2: Opportunities and Challenges – Workshop

Wednesday

11 December 2024

15:45 – 17:15

Building on the previous day's work, this second session in this series is a workshop, aimed at gathering your perspectives on the elements that are needed to shape the future of public health intelligence. Participants will work in small groups to discuss a particular challenge or opportunity which needs to be considered for public health intelligence of the future. Your insights will help answer the question – what needs to be included in the PHI Operational Framework to support countries to better understand, adapt, and improve their own public health intelligence operations?

Facilitators



Esther Hamblion

Unit Head

Public Health Intelligence Unit

WHO Health Emergencies Programme



Blanche Greene-Cramer

Team Lead, Alert and Verification

Public Health Intelligence Unit

WHO Health Emergencies

Programme



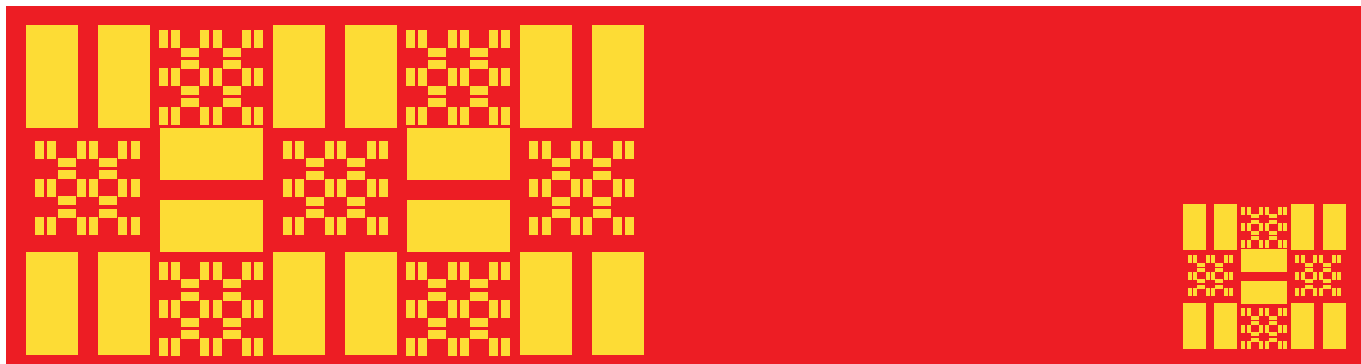
Lindsay Whitmore

Head

Coordinated Threat Assessment

Division

Public Health Agency Canada (PHAC)



EIOS System Clinic (Optional)

Wednesday

11 December 2024

17:45 – 18:30

You are already using the EIOS system in your work but wish you were able to use it better? Join us for an engaging and insightful EIOS system clinic session, where participants will have the opportunity to learn, ask questions, and discuss advanced concepts related to the EIOS system. This session is designed for EIOS system users of all levels who are eager to unlock the full potential of the EIOS system. Whether you are a beginner or an experienced user, this clinic will provide valuable insights and hands-on support to enhance your EIOS system experience.

Please note that participation will be limited to the first 30 participants who register for each group (English and French) to ensure a personalized and interactive experience. Be sure to sign up early using the following link:

Available in English (main room) and French (small room)



Facilitators



Raquel Medialdea Carrera

Training Officer

Intelligence Innovation and
Integration (III)

WHO Health Emergencies Programme



Ingrid Hammermeister Nezu

Training Consultant

Intelligence Innovation and
Integration (III)

WHO Health Emergencies
Programme



Ramazani Mangosa Zaza

EIOS Focal Point (East Africa)

WHO Regional Emergency Hub,
Nairobi

WHO Regional Office for Africa
(AFRO)



Muzghan Habibi

Technical Officer, EIOS Focal Point

Health Emergency Information and
Risk Assessment (HIM)

WHO Regional Office for the Eastern
Mediterranean (EMRO)



Julie Fontaine

Epidemiology Coordinator

Intelligence Innovation and
Integration (III)

WHO Health Emergencies
Programme



Emerencienne Kibangou

Technical Officer

WHO Regional Emergency Hub,
Dakar

WHO Regional Office for Africa
(AFRO)

Evening Reception

Wednesday

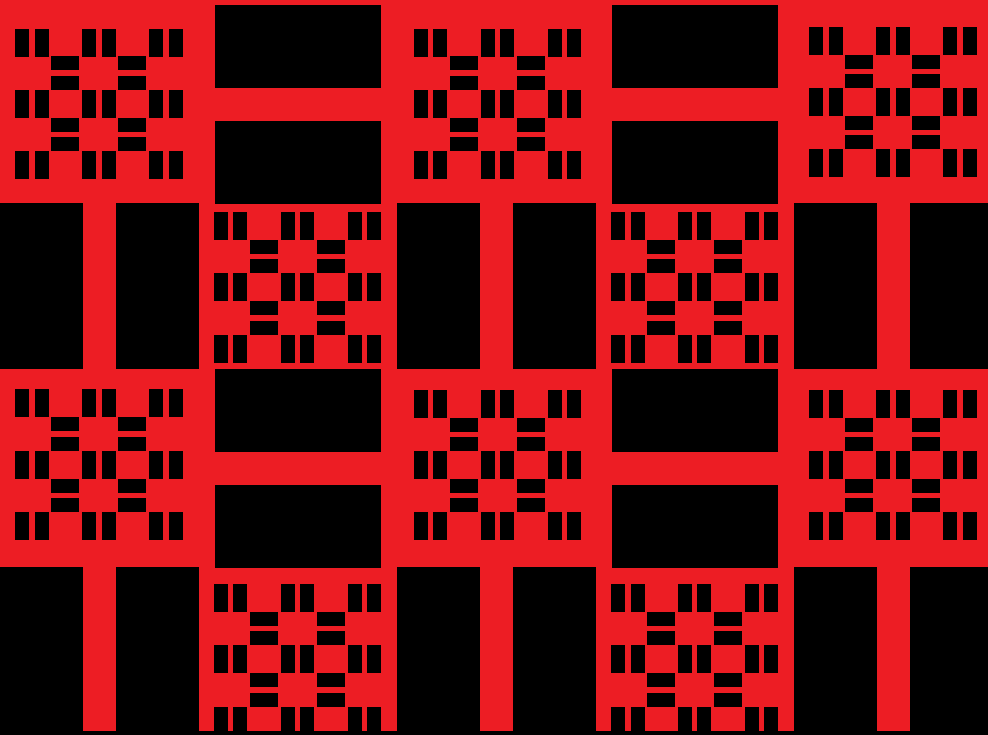
11 December 2024

From 19:00

Following a long but exciting day, unwind with us at the pool-side evening reception at Palm Beach Hotel & Spa to the serene tunes of live West African Kora music. Set against the stunning backdrop of the Atlantic Ocean, this is the perfect opportunity to connect with fellow GTM participants over refreshing drinks and light bites in a relaxing atmosphere.



© Palm Beach Hotel Resort & Spa



DAY 3: THURSDAY

The Future of Public Health Intelligence



Agenda Overview Day 3

Thursday, 12 December 2024

Time	Activity
07:00	Teranga Sunrise Stretch (Optional)
08:30	Arrival & sign in
09:00	Welcome Day 3
09:30	The Future isn't What it Used to Be: Shaping the Next Generation of the PHI Workforce
10:00	(En)Lightning Session: New Approaches to PHI Training
11:00	Break
11:30	Building the Future of PHI: Training, Evaluation and Workforce Development – Workshop
12:30	Break – Lunch
14:00	Collaborative Surveillance: Country, Regional and Global Action
15:30	Break
16:00	PHI Operational Framework #3: Next Steps
16:30	Announcement of EIOS Coordination Group 2025–26 and Closure of 2024 EIOS GTM
17:00	END

The Future isn't What it Used to Be: Shaping the Next Generation of the PHI Workforce

Thursday

12 December 2024

09:30 – 10:00

This session will emphasize the critical role of workforce development in Public Health Intelligence (PHI) and explore innovative approaches to preparing the next generation of professionals. We will discuss the challenges and opportunities in PHI, envision the future, and highlight the importance of training professionals at regional, national, and global levels.

Keynote Speaker

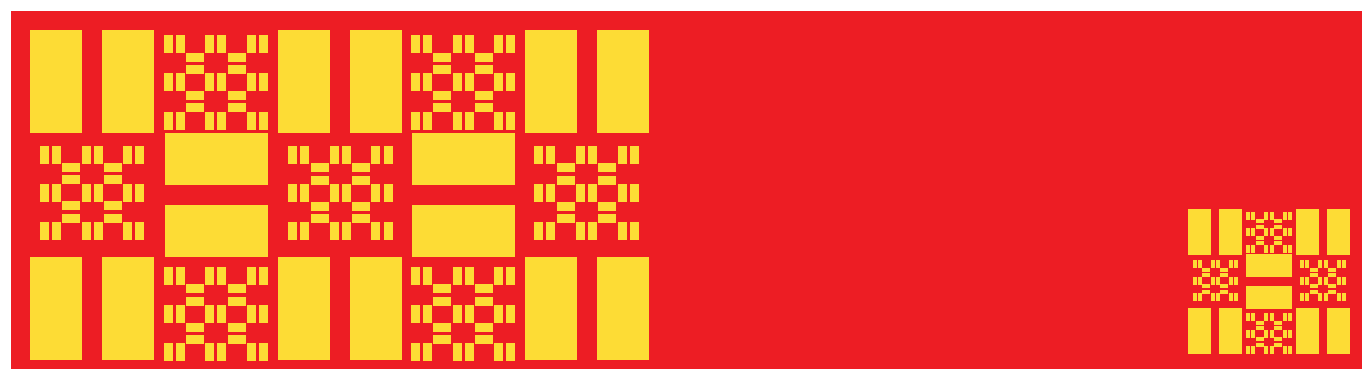


Melinda Frost

Unit Head

Learning Design and Production

WHO Academy



(En)Lightning Session: New Approaches to PHI Training

Thursday

12 December 2024

10:00 – 11:00

Get ready for fresh perspectives in PHI training and workforce development! This session will showcase new methods, tools, and innovative strategies designed to build capacity for tackling global health challenges through real-world examples. As PHI rapidly evolves due to emerging threats and technological advancements, developing a well-trained and adaptable workforce is more crucial than ever. Whether you're a seasoned professional or new to the field, this dynamic session promises to inspire and energize you with cutting-edge strategies and creative solutions.

Chair



Carl Reddy

Director

Training Programs in Epidemiology and Public Health
Interventions (TEPHINET)

Presenters



**Rebeca Cristine
Campos Martins**

Focal Point

National Network of
Strategic Information Centers
in Health Surveillance
Ministry of Health, Brazil



**Álvaro Ítalo de
Sousa Dias**

Technical Consultant

National Network of
Strategic Information
Centers in Health
Surveillance
Ministry of Health, Brazil



Freda Aceng

Senior Epidemiologist

Department of Integrated
Epidemiology, Surveillance
and Public Health
Emergencies
Ministry of Health, Uganda



**Raquel Medialdea
Carrera**

Training Officer

Intelligence Innovation and
Integration (III)
WHO Health Emergencies
Programme



Muzghan Habibi

Technical Officer, EIOS Focal Point

Health Emergency Information and
Risk Assessment (HIM)
WHO Regional Office for the Eastern
Mediterranean (EMRO)



Madison Harman

Technical Officer

Public Health Intelligence and
Training
Robert Koch Institute (RKI)



Priyank Hirani

Director of Capacity Building
data.org

Building the Future of PHI: Training, Evaluation and Workforce Development – Workshop

Thursday

12 December 2024

11:30 – 12:30

Join the Public Health Intelligence (PHI) Training Working Group for an interactive workshop focused on advancing PHI training and competencies. This session invites participants to collaboratively explore current needs, including evaluations of training programs, monitoring and evaluation (M&E) frameworks, training sustainability, and the establishment of PHI training standards. Through guided discussions and brainstorming, attendees will identify core areas critical to PHI skill-building and long-term workforce development. This workshop offers a unique opportunity to shape the future of PHI training and support a sustainable, standards-driven approach.

Moderators

Members of the Public Health Intelligence Training Working Group



© WHO

Collaborative Surveillance: Country, Regional and Global Action

Thursday

12 December 2024

14:00 – 15:30

This session will showcase examples from Member States and partners on how they are advancing the implementation of collaborative surveillance by strengthening coordination and application of multiple systems and data sources. It will highlight current country-level approaches and regional strategies, demonstrating the use of the EIOS system and other tools as part of the broader surveillance ecosystem, as well as applications in One Health and conflict contexts. The session will also touch on global initiatives supporting the strengthening of the broader enabling environment (systems, governance, and financing) for collaborative surveillance as a core component of strengthening health emergencies prevention, preparedness, response, and resilience (HEPR).

Chair



Flavia Riccardo

Research Director

Istituto Superiore di Sanità (ISS), Italy

Speakers



Guan hao Chan

Assistant Director

Public Health Intelligence
Ministry of Health,
Singapore



Davie Simwaba

Medical Public Health
Specialist

Integrated Disease
Surveillance and Response
Zambia National Public
Health Institute



Krista Swanson

Technical Officer

Epidemic Alert and
Response
Pan American Health
Organization (PAHO/WHO)



Mohamed Fawzy Elnahif

Surveillance Officer, EIOS
Focal Point

Health Emergency Information
and Risk Assessment (HIM)
WHO Regional Office for the
Eastern Mediterranean (EMRO)



Masaya Kato

Programme Area Manager

Health Emergency Information
and Risk Assessment (HIM)
WHO Regional Office for
South-East Asia (SEARO)



Endah Kusumowardani

Epidemiologist

Directorate of Health Surveillance
and Quarantine
Ministry of Health, Indonesia



Brett Archer

Epidemiologist

Surveillance Systems Department
WHO Health Emergencies Programme

PHI Operational Framework #3: Next Steps

Thursday

12 December 2024

16:00 – 16:30

In the final session on the PHI Operational Framework, we will summarize the small group workshop from the previous day and highlight identified priority areas. With a view to the future, we will also present the terms of reference for an upcoming technical working group to be consulted as the framework is being developed and will seek participants for this group.

Speakers



Esther Hamblion

Unit Head

Public Health Intelligence Unit

WHO Health Emergencies Programme



Blanche Greene-Cramer

Team Lead, Alert and Verification

Public Health Intelligence Unit

WHO Health Emergencies

Programme



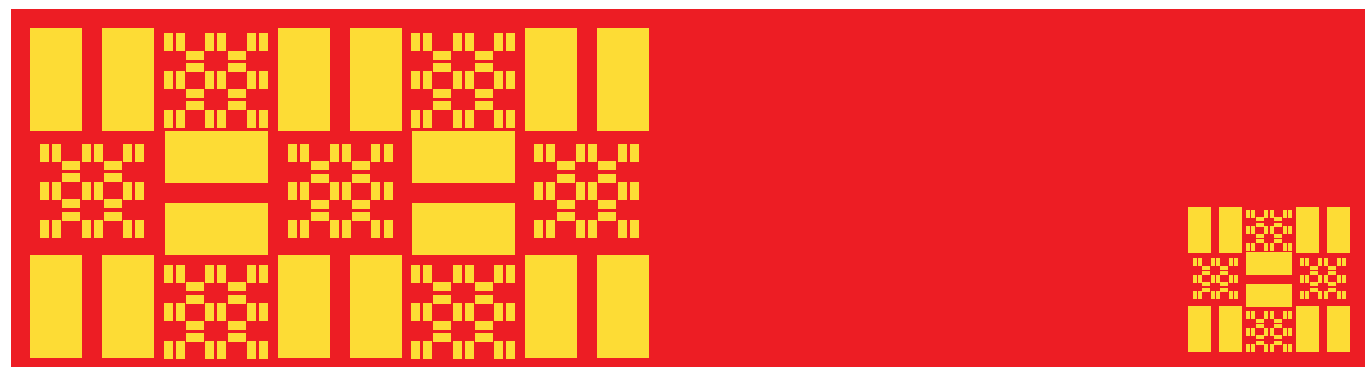
Lindsay Whitmore

Head

Coordinated Threat Assessment

Division

Public Health Agency Canada (PHAC)



Closing Ceremony and Announcement of 2025–26 EIOS Coordination Group

Thursday

12 December 2024

16:30 – 17:00

As we close the 2024 EIOS Global Technical Meeting, we extend our heartfelt gratitude to the outgoing EIOS Coordination Group 2023-24 for their tireless efforts and remarkable contributions to advancing public health intelligence. Their leadership has been instrumental in driving the EIOS initiative forward over the past two years. In these final moments of the 2024 EIOS GTM, we have the pleasure to announce the new EIOS Coordination Group, who will build on this foundation and lead us into an exciting new phase of collaboration and innovation in the next two years to come. We will close with some reflections on the 2024 EIOS GTM and the future of public health intelligence that lies ahead of us.

Speakers

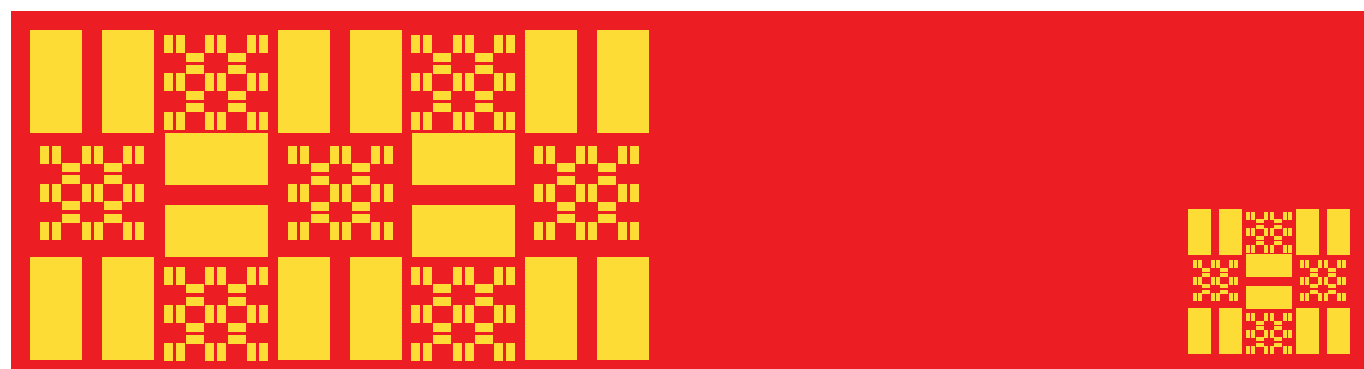


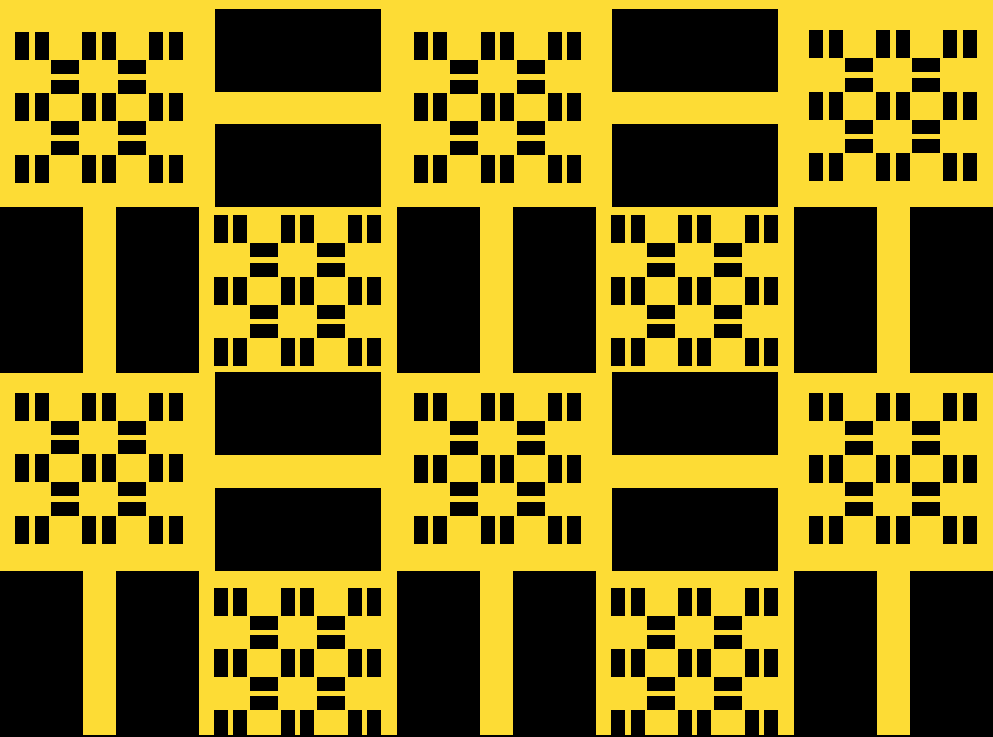
Oliver Morgan

Director

Pandemic and Epidemic Intelligence Systems

WHO Health Emergencies Programme





SECTION 03: EXTRA-CURRICULAR ACTIVITIES

The Future of Public Health Intelligence

Extra-Curricular Activities

The GTM is an opportunity to learn from and connect with fellow participants inside and outside the meeting schedule. We have done our best to curate an exciting and engaging programme, but we know that sitting in a room for three consecutive days might be draining, nevertheless. For this reason, we have put together some suggestions and ideas for “extra-curricular” activities during the event days to help you make the most out of your visit to Saly. Get together with some of your newly acquainted colleagues to join any of the below activities or organize your own!

Baobab Run and Walk

Wednesday

11 December 2024

07:00 – 07:45

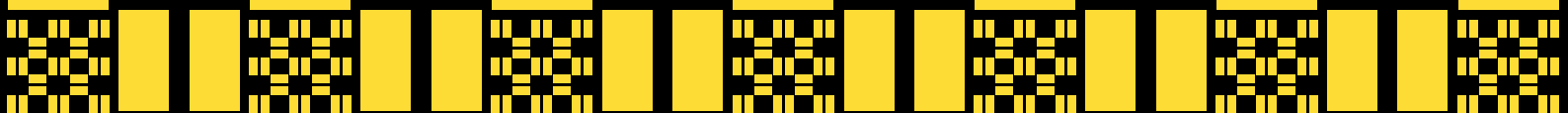
Rise and shine, meeting champions! Join EIOS Training Coordinator Raquel Medialdea Carrera for a scenic run along Saly Beach or accompany our Sources Coordinator Mostafa Mahran for a relaxed morning walk. This energizing activity is open to participants of all fitness levels. Expect fresh air, stunning views, and a chance to connect with fellow attendees. Just bring your running or walking shoes, put on some comfy clothes, and you are all set!

This is an optional activity so no judgment if you hit the snooze button on your alarm clock instead!

Meeting point: 07:00, beach side, just outside Palm Beach Resort & Spa



© WHO / Alfonso Moral



Teranga Sunrise Stretch

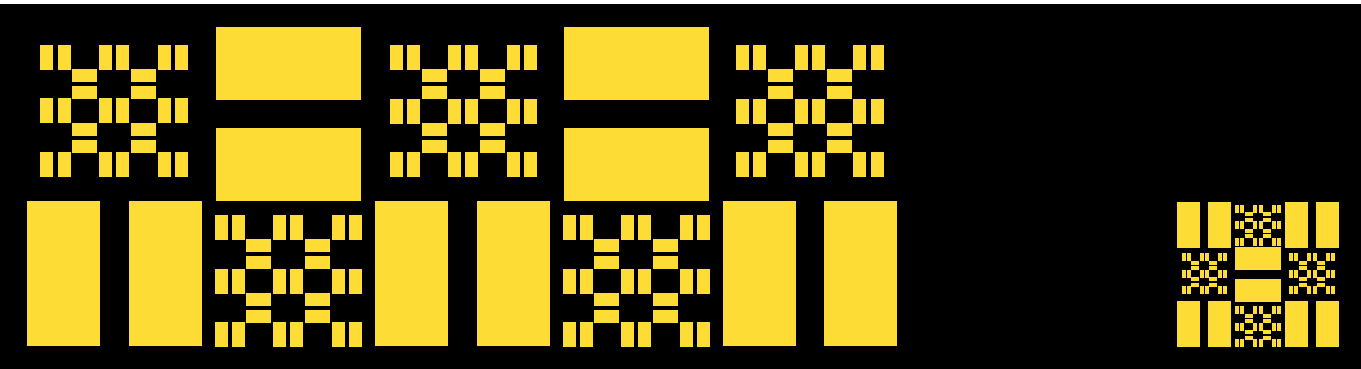
Thursday
12 December 2024
07:00 – 07:30

Start your final day of the 2024 EIOS GTM with a refreshing yoga session overlooking the Atlantic! Join Olga Lugovska, our expert Engagement Consultant, to reconnect mind and body through gentle postures and calming breathing techniques. This session is open to all – whether you’re here to stretch, meditate, or simply unwind. Bring a yoga mat or a big towel and embrace a peaceful start to your day.

Meeting point: 07:00, beach side, just outside Palm Beach Resort & Spa



© WHO / Alfonso Moral



Saly: Activities and Attractions

Saly, located along the beautiful coastline of Senegal's Petite Côte, is known for its laid-back beaches, vibrant local markets, and opportunities for wildlife encounters. While the meeting venue is situated in this serene resort town, participants also have the opportunity to explore the natural beauty and rich cultural experiences in the area during their free time.

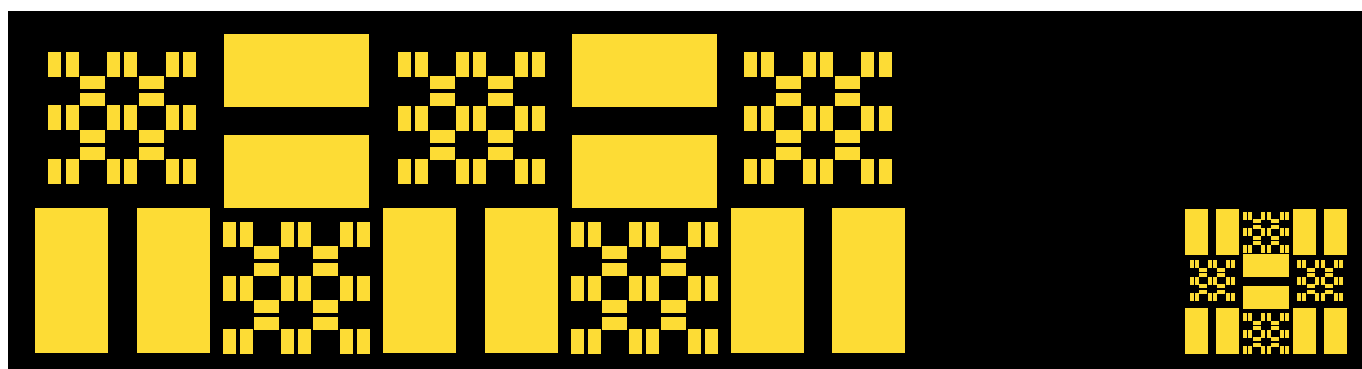
If you arrive ahead of the conference or are able to stay an additional day or two and are interested in exploring the area, please inquire with the accredited tour operators in your respective hotels or ask a local colleague for recommendations!

Main activities and attractions

- **Saly Beach** is famous in the entire country for its golden sands and opportunity to take part in various water sports, including jet skiing, paddleboarding, or windsurfing. Or simply to enjoy a sunset walk along the peaceful Atlantic shoreline.
- **Bandia Wildlife Reserve** is only a short drive from Saly and offers a safari experience where you can spot rhinos, giraffes, zebras, and various bird species in their natural habitats.



© Unsplash / Enzo GANNERIE



Dakar: Activities and Attractions

Dakar, Senegal's bustling capital, is a vibrant city full of history, art, and culture. Whether you plan to explore the city before or after the meeting, Dakar offers a range of activities and landmarks that highlight the country's rich heritage and cosmopolitan charm.

Main activities and attractions

- **Île de Gorée (Gorée Island)**, is a UNESCO World Heritage Site and only a short ferry ride from Dakar. It holds a significant place in the history of the Atlantic slave trade. This tranquil island of cobbled streets and pastel-coloured colonial houses has been transformed from a slave centre into a sanctuary and a must-visit when in Dakar.
- **African Renaissance Monument** is one of the tallest statues on the continent and symbolizes African independence. At 49 meters tall and located on a hill, a visit to this impressive monument also offers panoramic views of Dakar.

- **Théodore-Monod Museum of African Art (IFAN Museum)** is one of the oldest and most important museums in West Africa, housing an exceptional collection of sculptures, masks, textiles, and other traditional artefacts from various ethnic groups across the region.

Other activities in and around Dakar:

- **Lac Rose (Pink Lake)** is located just outside Dakar and is famous for its pink hue and high salt content. Tours of this unique lake and its surrounding dunes are available and one of the most popular day trips from Senegal's vibrant capital.
- **Marché Sandaga** is the largest market in Dakar and offers a unique experience to soak up the local atmosphere. You can find everything from fruits and spices, to Senegalese jewelry and artisanal products.



© Unsplash



© Mireia Saenz de Buruaga

Senegalese Cuisine

Senegal is renowned for its vibrant and flavorful cuisine, which draws from a rich blend of African, French, and Portuguese influences. Below is a selection of the most famous Senegalese dishes you might want to try while in Senegal!

Thieboudienne (Ceebu Jën): Senegal's national dish, made with marinated fish, rice, and vegetables such as cassava, carrot, cabbage, and eggplant. It's often cooked in a rich tomato sauce and served with spicy tamarind or hibiscus sauce.



© Marco Verch

Lakhou Bissap: Savory millet porridge cooked with a rich sauce of hibiscus leaves, typically served with meat.



© Kinesira

Yassa Poulet: Chicken marinated in lemon, mustard, and onions, then grilled and served with rice.

Mafé: A hearty peanut stew made with beef or chicken served over rice.

Pastels: Fried fish pastries served with a spicy tomato sauce.

Fataya: Crispy meat or fish turnovers, similar to empanadas, served with a spicy sauce.

Ndambé: A spicy bean stew, often eaten with bread for breakfast.

Bassi Salte: Millet couscous dish served with a tomato-based sauce, meat, and vegetables, often enjoyed during special occasions.

Thiakry: Creamy millet porridge served with sweetened yogurt, cinnamon, and vanilla.

Drinks

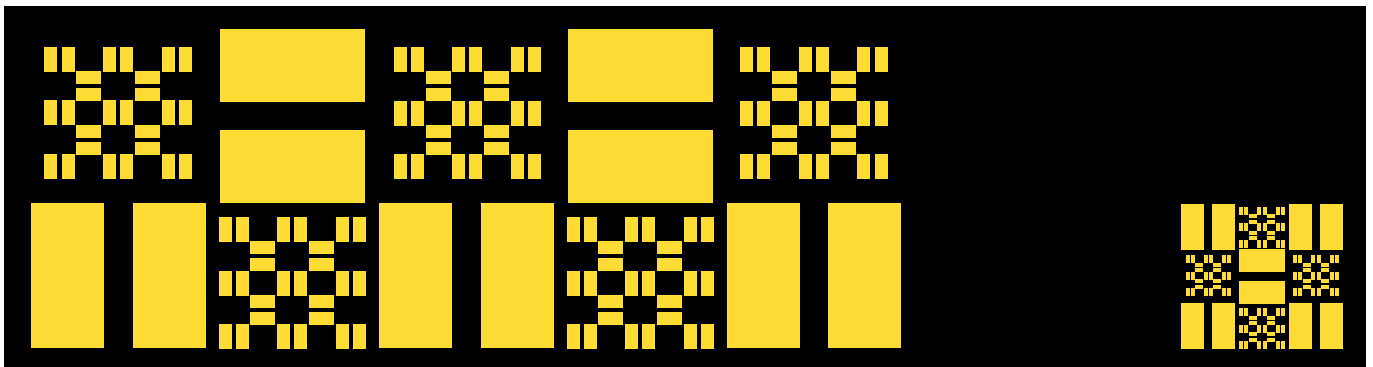
Bissap: A sweet, chilled hibiscus tea with mint or orange blossom.

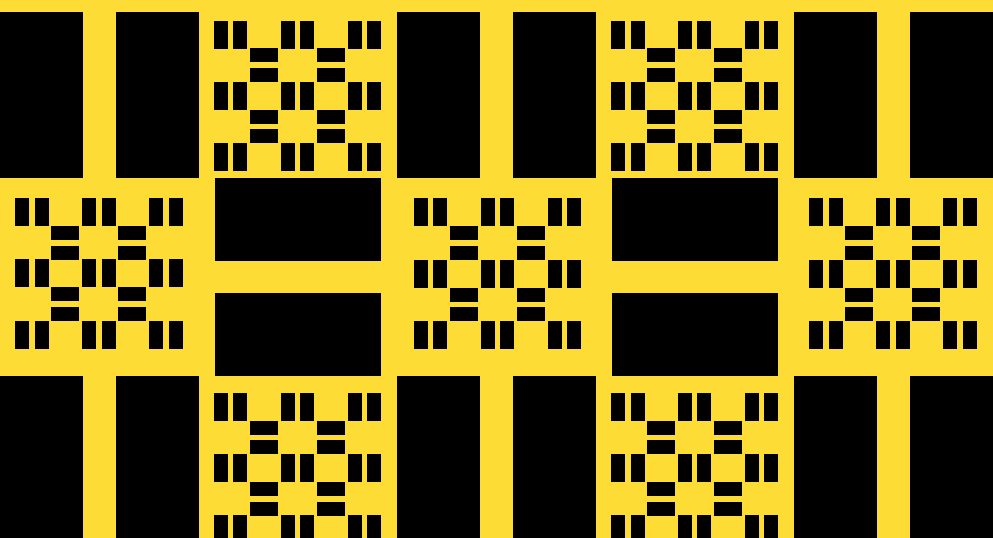
Bouye: A creamy, tangy juice from the baobab fruit.

Café Touba: A spiced coffee made from Guinea pepper and cloves.



© Nik Coa



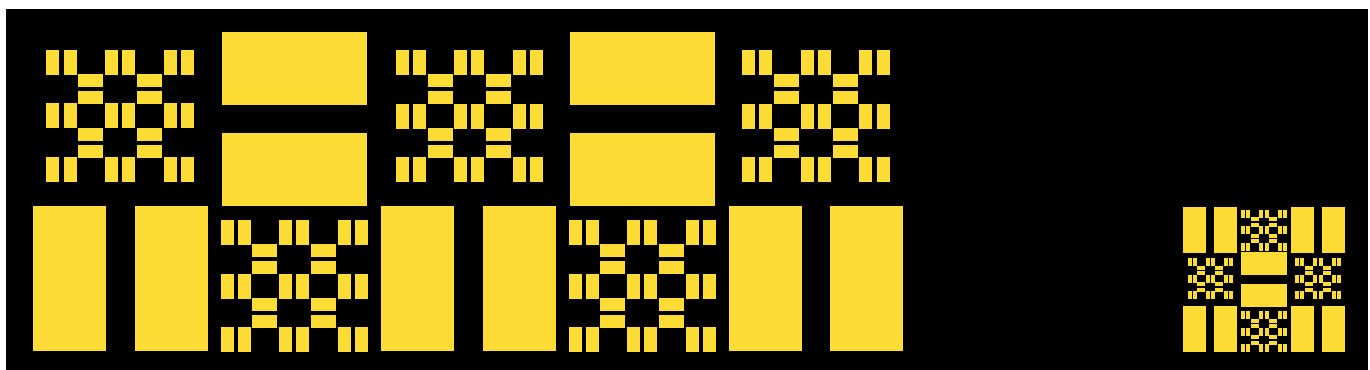


SECTION 04: HELPFUL FRENCH AND WOLOF WORDS AND CONTACTS

The Future of Public Health Intelligence

Helpful French and Wolof Words

ENGLISH	FRENCH	WOLOF
Hello	Bonjour	A Salamaleykoum
Good morning	Bonjour	A Salamaleykoum
Good evening	Bonsoir	Ngoonu jàmm
What's your name?	Comment vous appelez-vous?	Nan nga tudd?
My name is...	Je m'appelle...	Mangui tuuduu
How are you?	Comment ça va?	Na nga def?
Have a nice day	Bonne journée	Bésub jàmm
Thank you	Merci	Jërëjëf
Where is the bathroom?	Où sont les toilettes?	Fan la WC-toilettes bi nekk?
Please	S'il vous plaît	Ngir Yàlla
Very nice	Très bien	Rafètna
Cool!	Cool!	Cool
My French/Wolof is not good	Mon français n'est pas très bon	Sama wolof neexul none Sama wolof leerul
Help me	Aidez-moi	Dimbali ma
Sorry	Désolé	Baal ma



Emergency Contact List

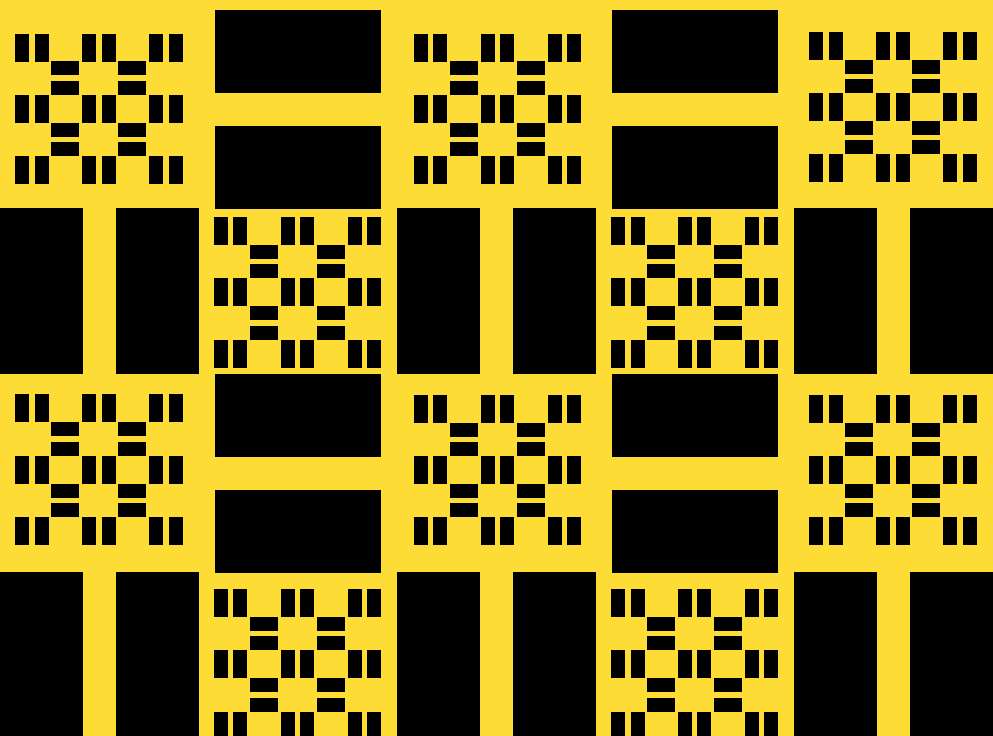
Tourist police	17
Medical Emergency: Ambulance	15
Medical Emergency: SAMU	1515
Fire Emergency	18

Contacts for GTM Organizing Team

Freddy Kambale Kavoga	+221 77 357 82 44
Jean-Paul Kimenyi	+221 77 579 97 33



© Cheikh Tidiane Ndiaye



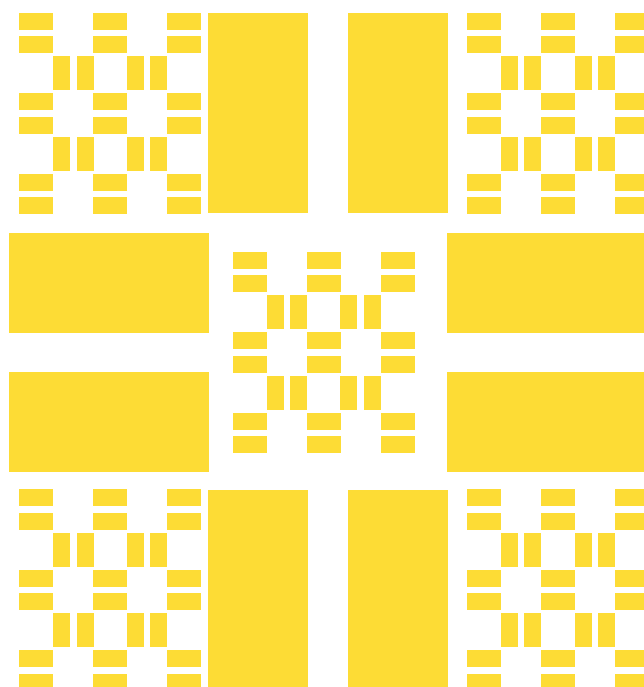
SECTION 05: ACKNOWLEDGEMENTS

The Future of Public Health Intelligence

Speakers



Scan the QR Code to view full speaker biographies on our website!



Acknowledgements

Many individuals contributed to the planning, development, and implementation of the 2024 EIOS Global Technical Meeting and to list them all would be an impossible task. The EIOS Core Team is extremely grateful for their support and dedication and would also like to acknowledge and thank all presenters, panellists, moderators and chairs. This includes a multitude of colleagues from the WHO Regional Office in Brazzaville, the WHO Emergency Hubs in Dakar and Nairobi, and the WHO Country Office in Senegal, as well as many colleagues from across the WHO Health Emergencies Programme (including the WHO Pandemic Hub's Operations Management Team, the Project Management Office, the Collaborative Intelligence Department, the

Surveillance Systems Department, and the Public Health Intelligence Unit).

Special thanks also go to our hosts from the World Health Organization Regional Office for Africa for co-organizing this year's GTM and to the Health Emergency Preparedness and Response Authority (HERA) of the European Commission for making this meeting possible through their gracious support.

Last but not least, we want to thank you, the 2024 EIOS GTM meeting participants for making the journey to Senegal to be part of this event and of our joint mission to strengthen public health intelligence worldwide.

Meet the EIOS Core Team



Philip AbdelMalik
Lead



Yasmin Rabiyan
Engagement Coordinator



Raquel Medialdea Carrera
Training Coordinator



Johannes Schnitzler
Technology Coordinator



Stéphane Ghozzi
Data Scientist



Julie Fontaine
Epidemiology Coordinator



Maria Eugenia Romo Ventura
Category Consultant (outgoing)



Farah Kader
Category Consultant (incoming)



Mostafa Mahran
Sources Consultant (outgoing)



Frank Kagoro
Sources Consultant (incoming)



Olga Lugovska
Engagement Consultant



Carolyn Briody
Expansion Consultant



Heidi Ghanem
Training Consultant



Ingrid Nezu
Training Consultant



Sami El Sabri
Intern

Support



Jason Seva
Project Manager



Tamanna Patel
Business Analyst



Priya Arumuahm
Business Analyst



Hamed Mir Alam
Administrative Assistant

Meet the EIOS AFRO Team



George Sie Williams

AFRO EIOS Focal Point
Public Health Intelligence Lead,
WHO AFRO Brazzaville



Ntabozuko Dwane

Regional EIOS Technical Officer
Public Health Intelligence,
Dakar Emergency Hub



Tamayi Mlanda

Regional EIOS System Development
and Innovation Focal Point
Information Systems and Data
Analytics, Dakar Emergency Hub



Ramazani Mangosa Zaza

East and Central Africa
EIOS Focal Point
Public Health Intelligence,
Nairobi Emergency Hub



Joyce Nguna

Southern Africa, EIOS Focal Point
Public Health Intelligence,
Nairobi Emergency Hub



Freddy Kambale Kavoga

West Africa EIOS Focal Point
Public Health Intelligence,
Dakar Emergency Hub



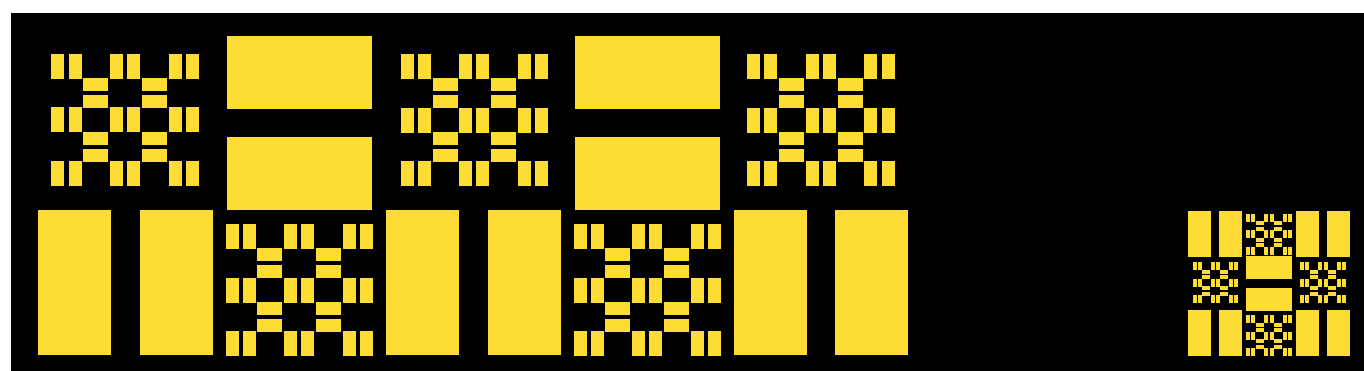
Jean-Paul Kimenyi

EIOS Master Trainer
Public Health Intelligence,
Dakar Emergency Hub



Emerencienne Kibangou

EIOS Master Trainer
Public Health Intelligence,
Dakar Emergency Hub





The EIOS Coordination Group 2023–2024

Africa Centers for Disease Control (Africa CDC)

- Represented by Kyeng Mercy Tetuh

Brazil Ministry of Health

- Represented by Daniel Coradi de Freitas

Centers for Disease Control and Prevention (CDC)

- Represented by Christie Manthey

European Centre for Disease Prevention and Control (ECDC)

- Represented by Gianfranco Spiteri

European Commission (EC)

- Represented by Ana Burgos Gutierrez

Food and Agriculture Organization of the United Nations (FAO)

- Represented by Madhur Dhingra

Iraq Ministry of Health

- Represented by Riyadh Alhilfi

Nigeria Centre for Disease Control (Nigeria CDC)

- Represented by Everistus Aniaku

Robert-Koch Institute (RKI)

- Represented by Andreas Jansen

Singapore Ministry of Health

- Represented by Vernon Lee

World Health Organization (WHO)

- Represented by Esther Hamblion

World Organisation for Animal Health (WOAH)

- Represented by Jenny Hutchison

Chaired by: World Health Organization (Represented by Oliver Morgan)

