

WHO Health Emergencies Programme

Dr. Oliver Morgan



World Health
Organization

HEALTH
EMERGENCIES
programme

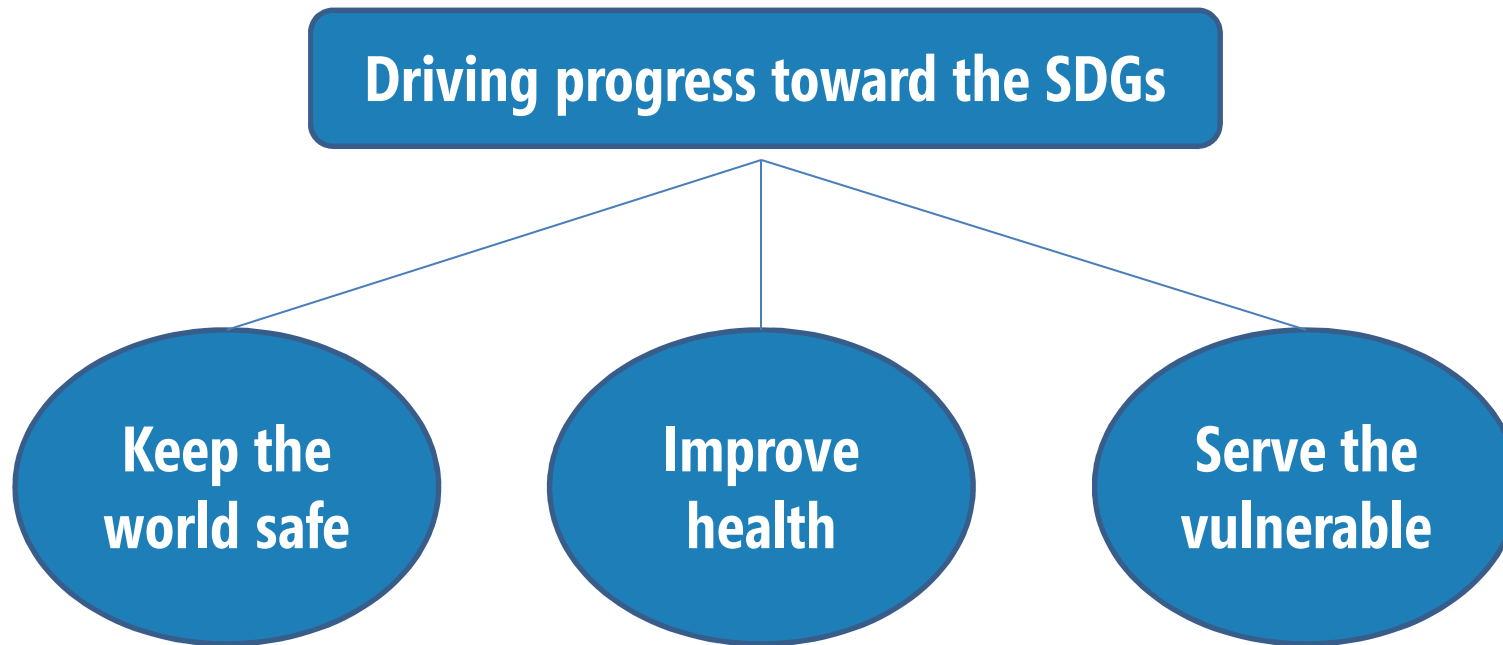
Context



69th World Health Assembly – May 2016

WHO Health Emergencies (WHE) Programme Created

WHO's strategic priorities



WHE's conceptual framework

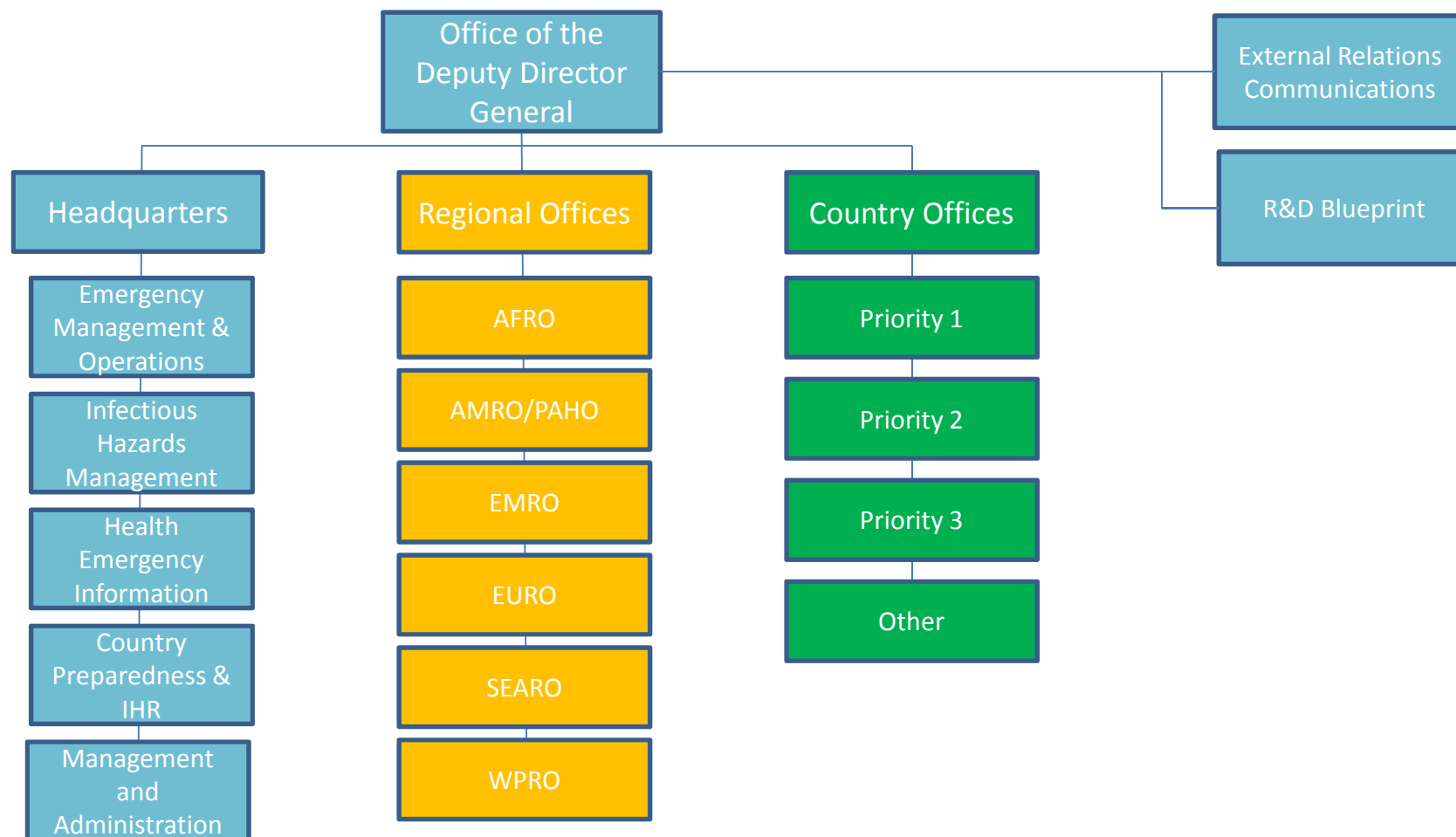
Early warning, risk assessment,
and emergency response

Prevention and control strategies for
high-threat infectious hazards

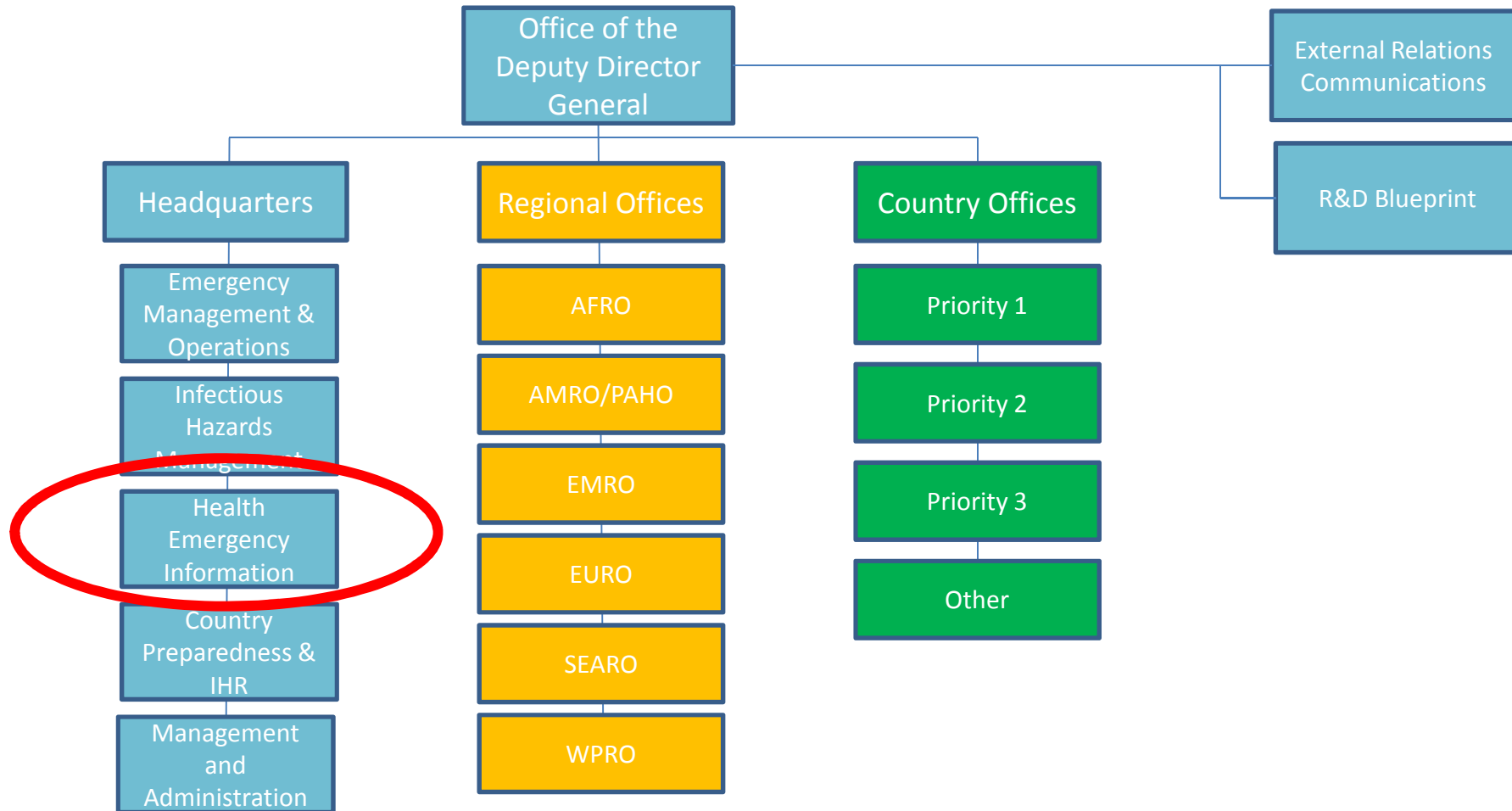
All-hazards preparedness, IHR assess-
ment and core capacities strengthening

Health systems strengthening in
high-vulnerability countries

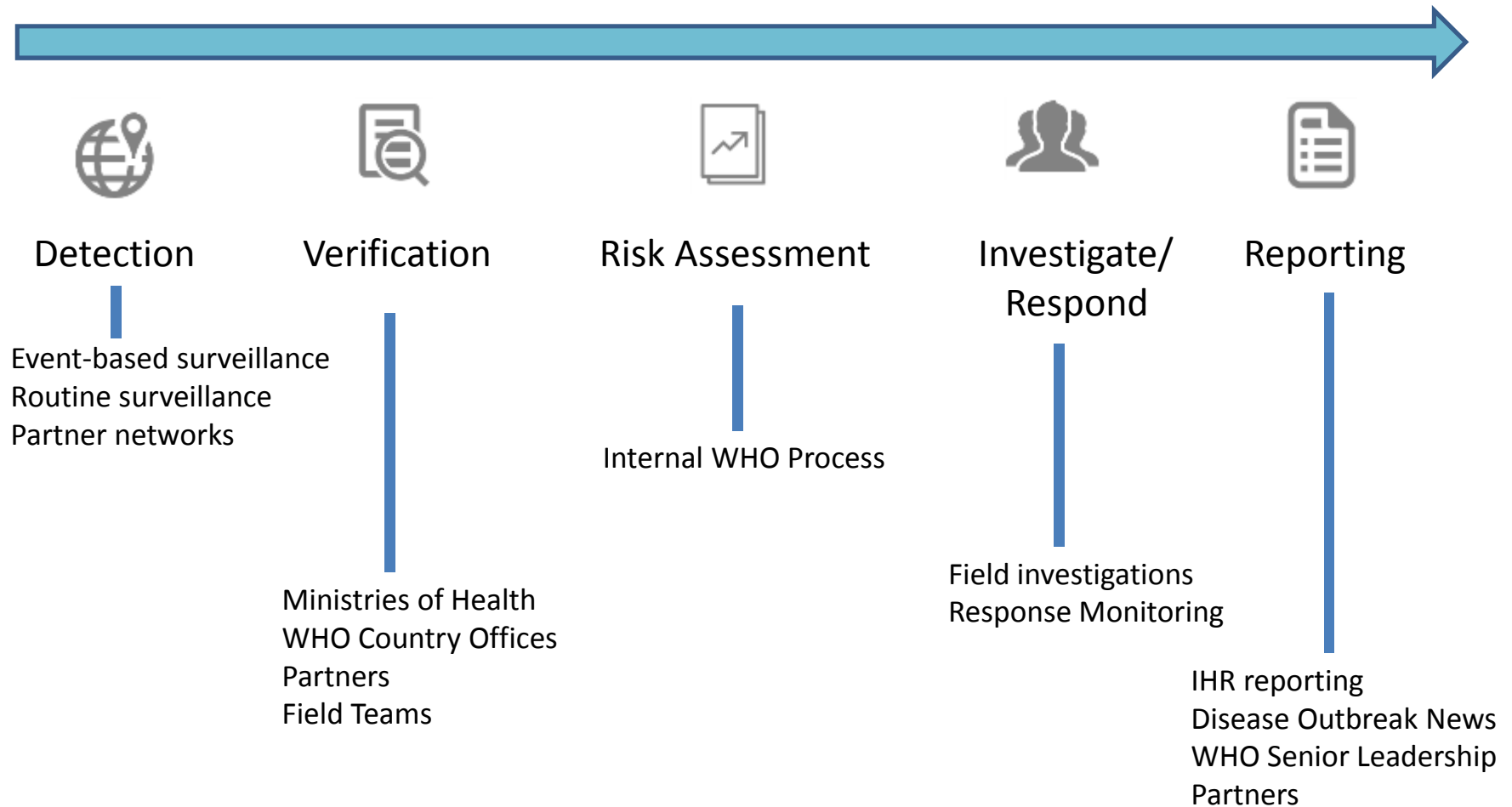
How is WHE Structured



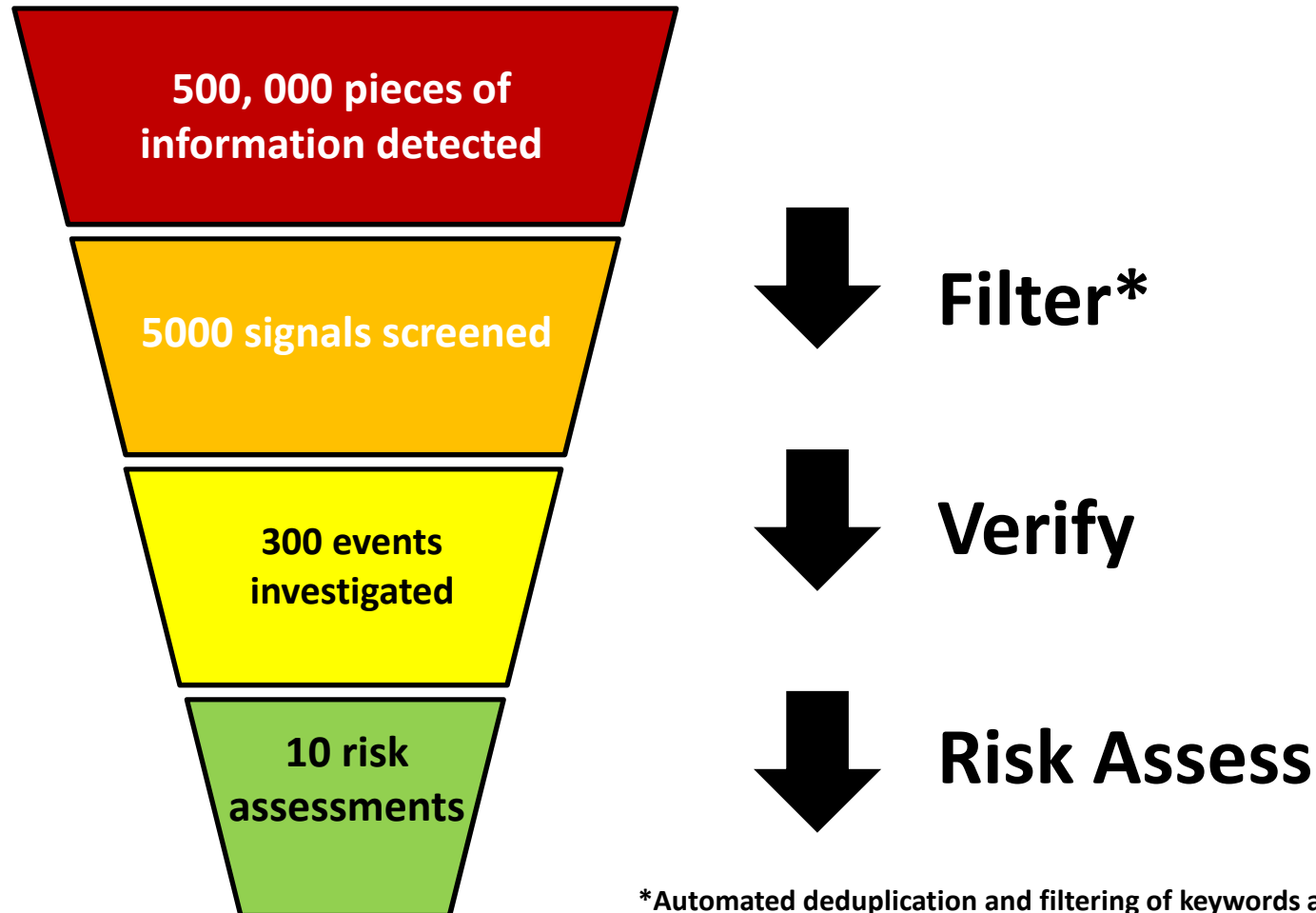
How is WHE Structured



Health Emergency Information and Risk Assessment



WHO Event Detection each Month



*Automated deduplication and filtering of keywords as well as manual screening and triaging of information

Platforms used by WHE

- **Event monitoring** —Emergency Dashboard
- **Event documentation** —EMS
- **Response management** —VSHOC
- **Event detection** —EIOS
- **Field data collection** —EWARS, HeRAMS, GoData
- **Reporting** —Disease Outbreak News

Platforms used by WHE

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- **Reporting** — **Disease Outbreak News**

A photograph showing a medical professional in a yellow vest and white shirt using a handheld electronic device on a patient lying on a stretcher in an ambulance. Other people are visible in the background, and medical supplies are on a shelf to the right.

Event Monitoring and Documentation



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Emergency Dashboard

Emergency Dashboard

MORGAN, Oliver

Region None selected Country None selected Status 5 selected Hazard None selected

Overview

Latest Important Updates

Last Two weeks

South Africa Listeriosis 2017
DEPLOYMENTS UPDATED
INFECTIOUS 0 days ago

Angola Cholera outbreak 2017-2018
DEPLOYMENTS UPDATED
INFECTIOUS 0 days ago

Saudi Arabia Coronavirus infection 2012
EVENT UPDATED
INFECTIOUS 0 days ago

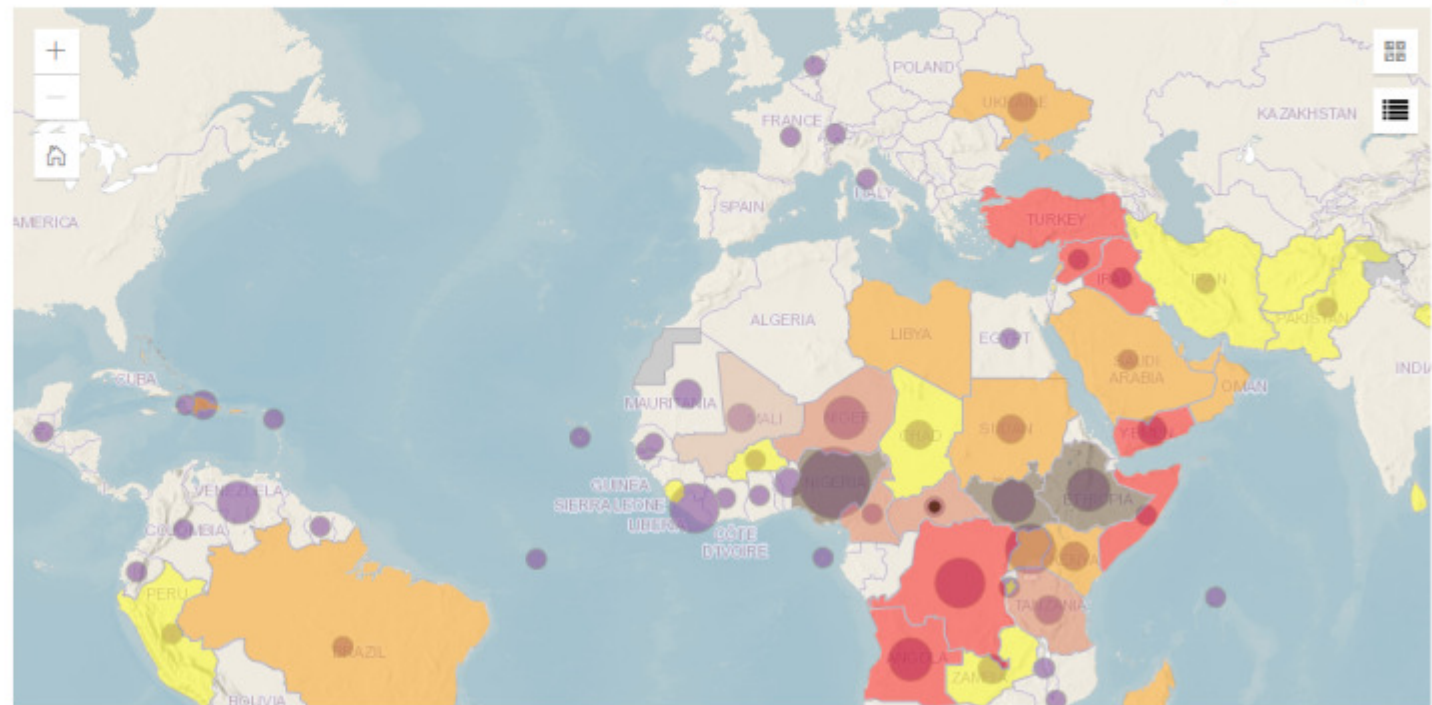
Switzerland Influenza due to identified avian or animal influenza virus 2018
EVENT UPDATED

+ Daily DG Briefings

+ Emergency statistics

Global Health Emergencies Map

Layer Opacity LAYERS



Emergency Dashboard

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MORGAN, Oliver

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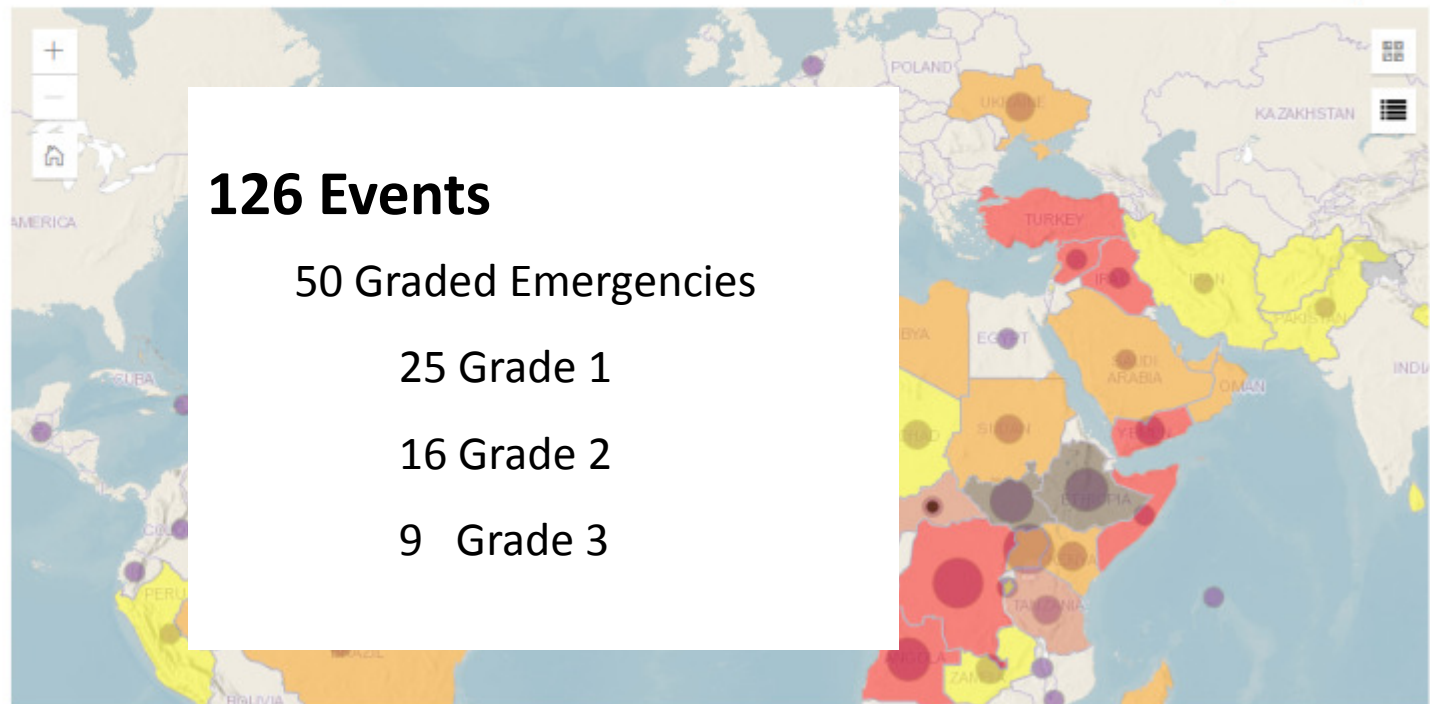
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Global Health Emergencies Map

Layer Opacity LAYERS



Event Management System

The screenshot displays the WHO Event Management System (EMS) interface. The browser address bar shows the URL <http://ems.who.int/Event/Event>. The page header includes the EMS logo and the World Health Organization logo. A navigation menu contains links for Regions, Events, Diseases/Conditions, Contacts, and Reports. A search bar is present with a search button and an 'Advanced Search' link. The main content area is titled 'Event Details' and shows the event ID '2017-E000003 - Brazil' and the disease 'Yellow Fever'. The event status is 'Current - Substantiated - Public Health Risk (PHR)'. A 'See Summary' link with a printer icon is available. Below the event title is a tabbed interface with 'Core Details' selected. The 'Current Information' tab is active, showing a table of general information. A confidentiality notice '|| = confident' is visible in the top right corner of the content area.

Event Details

2017-E000003 - Brazil [See Summary](#)

Yellow Fever

Current - Substantiated - Public Health Risk (PHR)

Core Details | Outputs | Epi | Places/Maps | Laboratory | Contacts | Operations Details | Updates | History | Files | Links

Current Information | Initial Information

|| = confident

General Information

Event ID: 2017-E000003	Hazard: Infectious	Event Status: Current
Country / Area: Brazil	Syndrome: n/a	Date Created: 2017-01-06
Region: AMRO	Disease / Condition: Yellow Fever	Event Admin:
Date of First Information: 2017-01-06	Aetiology: n/a	ALMIRON, Maria
		Heuschen, Florence
		Chiu, Monica
		DORJI, Tshewang
		IKEJEZIE, Juniorcaius, (Inactive)

Event Management System

The screenshot displays the WHO Event Management System (EMS) interface. The browser address bar shows the URL <http://ems.who.int/Event/Event>. The page title is "Event Details". The navigation menu includes "Regions", "Events", "Diseases/Conditions", "Contacts", and "Reports". The "Events" tab is selected, and the event details for "2017-E000003 - Brazil Yellow Fever" are displayed. The event status is "Current", and the public health risk is "Substantiated - Public Health Risk (PHR)". The "Core Details" tab is selected, and the "General Information" section is visible. The event details are as follows:

Field	Value
Event ID:	2017-E000003
Country / Area:	Brazil
Region:	AMRO
Date of First Information:	2017-01-06
Hazard:	Infectious
Syndrome:	n/a
Disease / Condition:	Yellow Fever
Aetiology:	n/a
Event Status:	Current
Date Created:	2017-01-06
Event Admin:	ALMIRON, Maria Heuschen, Florence Chiu, Monica DORJI, Tshewang IKEJEZIE, Juniorcaius, (Inactive)



Event Detection



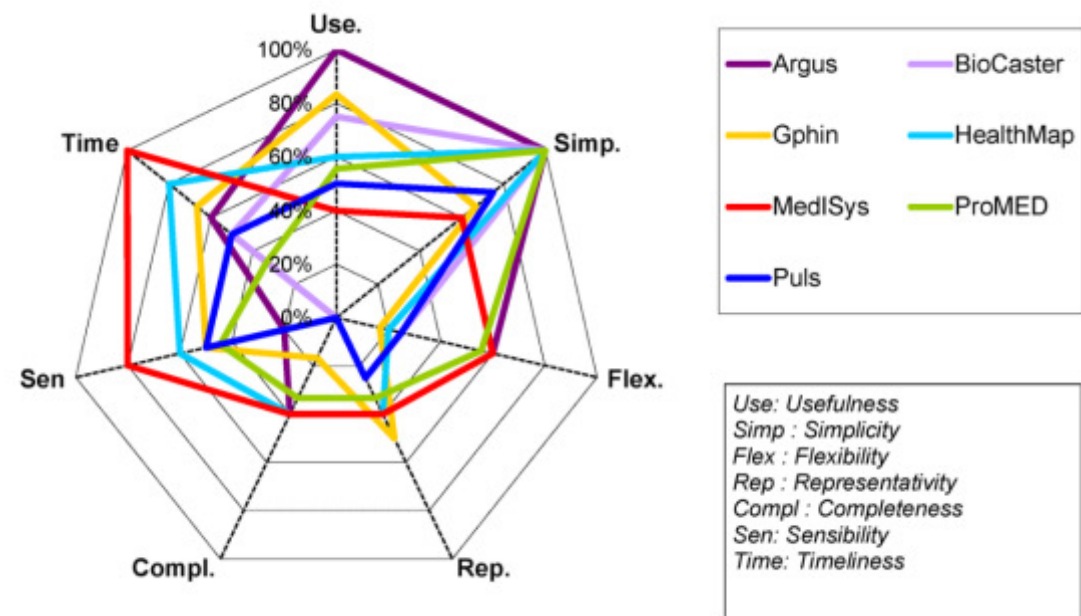
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Event Detection – EIOS Initiative

EIOS Epidemic intelligence from Open Sources

- Promote event-based surveillance
- Strengthen global/national capacities
- Enable exchange of expertise, pooling of resources



PLoS ONE8(3): e57252. <https://doi.org/10.1371/journal.pone.0057252>

EIOS Platform

06 March 2018



Epidemic Intelligence from Open Source

Monitoring

Communities and Teams

AbdelMalik, Philip Logout

Community: World Health Organization

Explore Latest Activities Sources Communications

Current board: All Items

Select board Save As

Search for text...

BOARD COMMUNICATIONS

TIME PERIOD

Published: Entire Period
150k



Entire Period

Specific Period

CATEGORIES

All WHO Categories
(351 of 351)

MENTIONED COUNTRIES

← Current board: All Items

3.7M
TOTAL ITEMS

« 1 2 3 ... 200 »

Any article

Publication Date Relevance

agriview (en) 06:23	Mineral misconceptions, myths debunked	0
healthmap (en) 06:21	Flu cases finally on the decline - Hawkesbury Gazette	0
golocalprov (en) 06:21	Food Chef Walter's Flavors + Knowledge: Balsamic Glazed Salmon	0
koreatimes (en) 06:20	Merck shows futuristic display materials	0
finanzen (de) 06:19	Novacyt: Proposed Admission to Trading on AIM and Successful Conditional Capital Raise of 9.7 Million	0
impactingorj (ro) 06:19	Peste 7,7 milioane de lei plătite gorjenilor ca ajutor de deces	0
unt (sv) 06:18	Märstabröder releases new album	0
oppps (ru) 06:15	Description of the Belarusians from ethno-rock graph-the fedot kudryn foresight—are	0
matchon (th) 06:12	สร. เผื่อระวัง 'โรคไขหวัดนก' หลังต่างประเทศยังพบเชื้อหาคณป้วยตายพุ่ง!	0
deutschewelle-ro (ro) 06:11	Avertisment cu privire la răspândirea alarmantă a virusului HIV în estul Europei Sida - o temă pentru mulți limitată la Africa și la țări în curs de dezvoltare. Dar acum vin semnale de alarmă dintr-o cu totul altă direcție. Numărul infectărilor cu virusul HIV ar fi crescut dramatic în Europa de Est.	0
gloucestercitizen (en) 06:11	30 amazing things Gloucestershire gave to the world	0
novosti-rs (sr) 06:11	Kuda vodi trag obuće sa nasipa i šta se desilo sa Jeleninom burmom?	0
gazetaprawna (pl) 06:10	Foreign investors are fighting for 10 billion from poland	0
hamshahronline (fa) 06:06	26 سرمقاله‌های روزنامه‌های seal.	0

EIOS Platform

06 March 2018

The screenshot displays the EIOS Platform interface. At the top left, the EIOS logo is accompanied by the tagline "Epidemic Intelligence from Open Source". Navigation tabs for "Monitoring" and "Communities and Teams" are visible, along with a user profile for "AbdelMalik, Philip" and a "Logout" option.

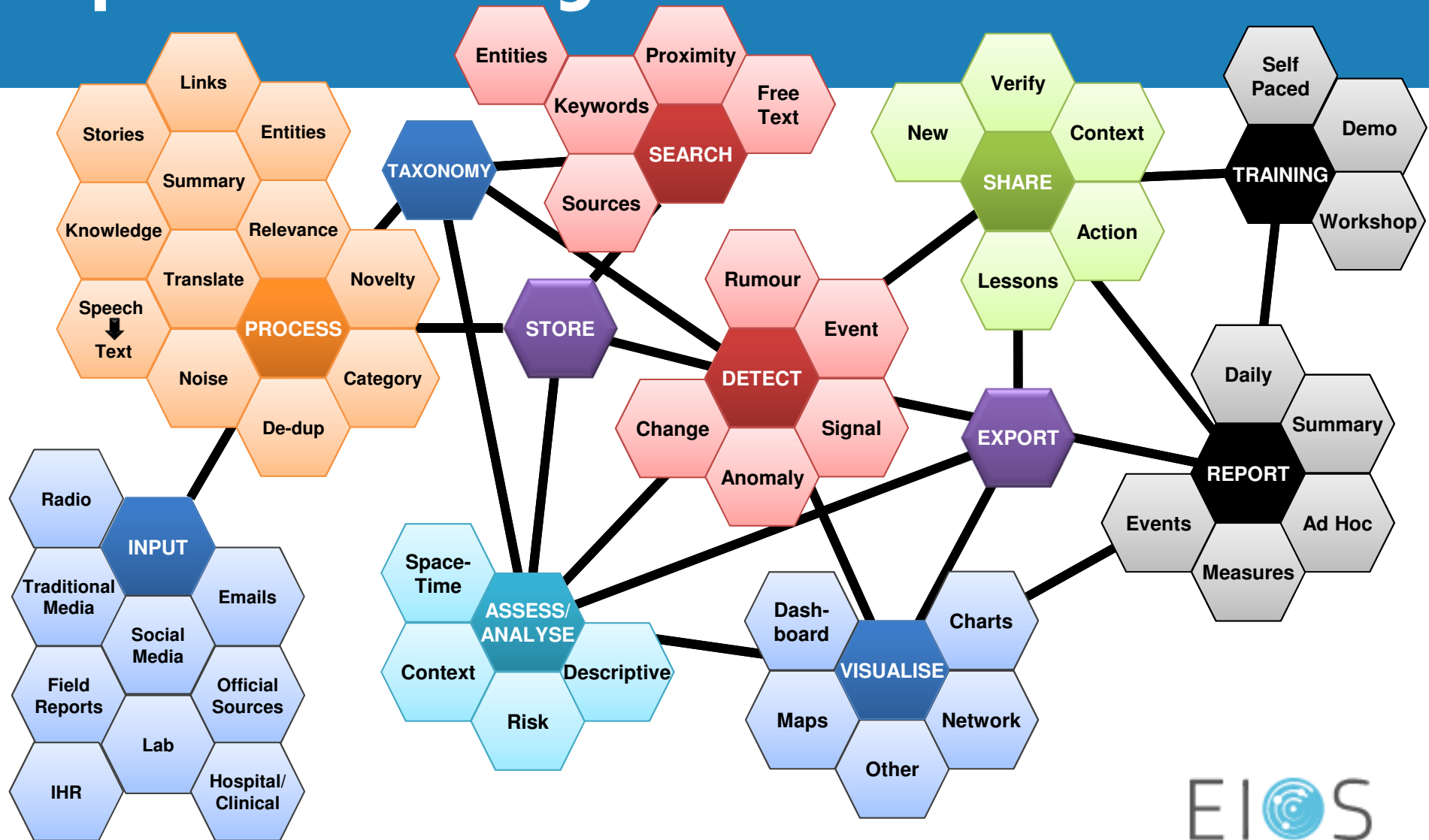
The interface is divided into several sections:

- Community:** World Health Organization.
- Navigation:** Explore, Latest Activities, Sources, and Communications.
- Current board:** All Items. Includes a search bar for "Any article" and pagination controls (1, 2, 3, ..., 200).
- Filters:** Publication Date and Relevance.
- Article List:** A table of articles with columns for source, language, date, title, and engagement metrics (comments, likes, shares).
- Left Sidebar:** Contains navigation and filtering options: "Select board", "Save As", "Search for text...", "BOARD COMMUNICATIONS" (2 new), "TIME PERIOD" (Published: Entire Period, 150k), "CATEGORIES" (All WHO Categories, 351 of 351), and "MENTIONED COUNTRIES".

The article list includes the following entries:

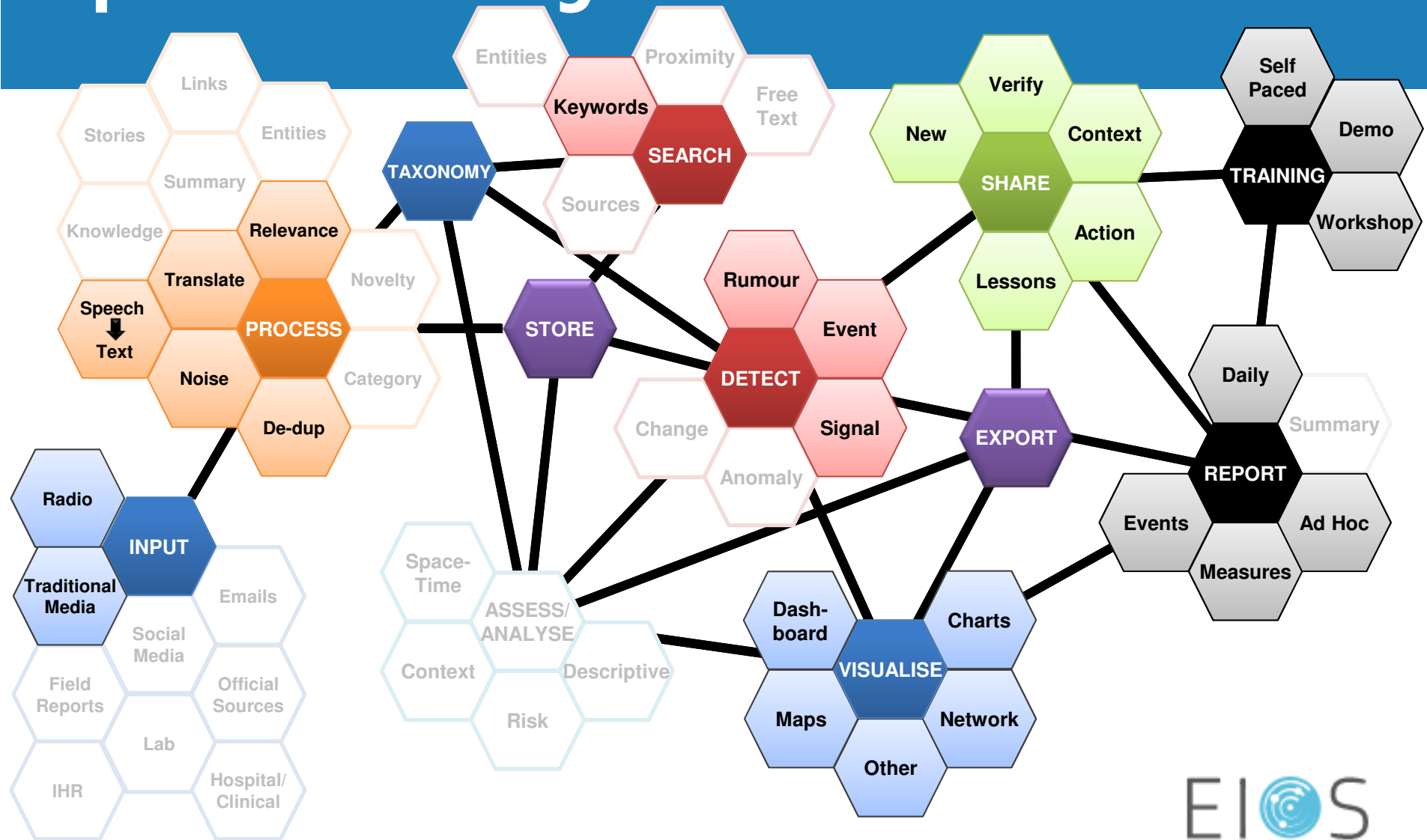
Source	Language	Date	Title	Comments	Likes	Shares
agriview	en	06:23	Mineral misconceptions, myths debunked	0	0	0
healthmap	en	06:21	Flu cases finally on the decline - Hawkesbury Gazette	0	0	0
golocalprov	en	06:21	Food Chef Walter's Flavors + Knowledge: Balsamic Glazed Salmon	0	0	0
koreatimes	en	06:20	Merck shows futuristic display materials	0	0	0
finanzen	de	06:19	Novacyt: Proposed Admission to Trading on AIM and Successful Conditional Capital Raise of 9.7 Million	0	0	0
impactingorj	ro	06:19	Peste 7,7 milioane de lei plătite gorjenilor ca ajutor de deces	0	0	0
unt	sv	06:18	Märstabröder releases new album	0	0	0
oppss	ru	06:15	Description of the Belarusians from ethno-rock graph-the fedot kudryn foresight—are	0	0	0
matchon	th	06:12	สร. เฝ้าระวัง 'โรคไขหวัดนก' หลังต่างประเทศยังพบเชื้อหาคณป้วยตายพุ่ง!	0	0	0
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gloucesterscitizen	en	06:11	30 amazing things Gloucestershire gave to the world	0	0	0
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gazetaprawna	pl	06:10	Foreign investors are fighting for 10 billion from poland	0	0	0
amshahronline	fa	06:00	26 سرمقاله های روزنامه های seal.	0	0	0

Epidemic Intelligence Collaboration



EIOS

Epidemic Intelligence Collaboration

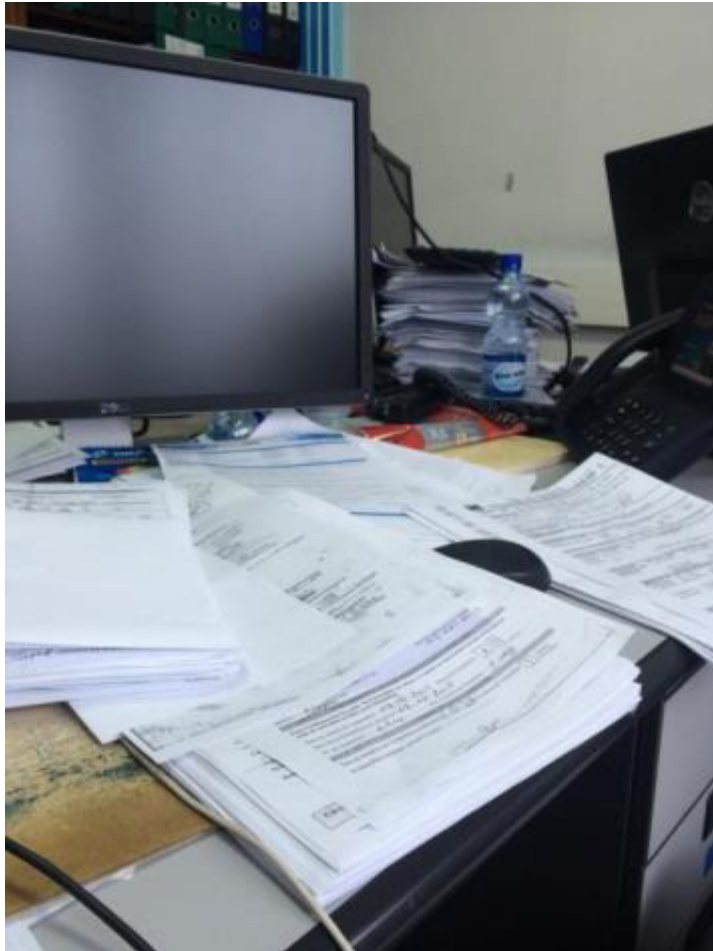




Field Data Collection

Photo: WHO/Lorenzo Pezzoli

Data Management in the Field

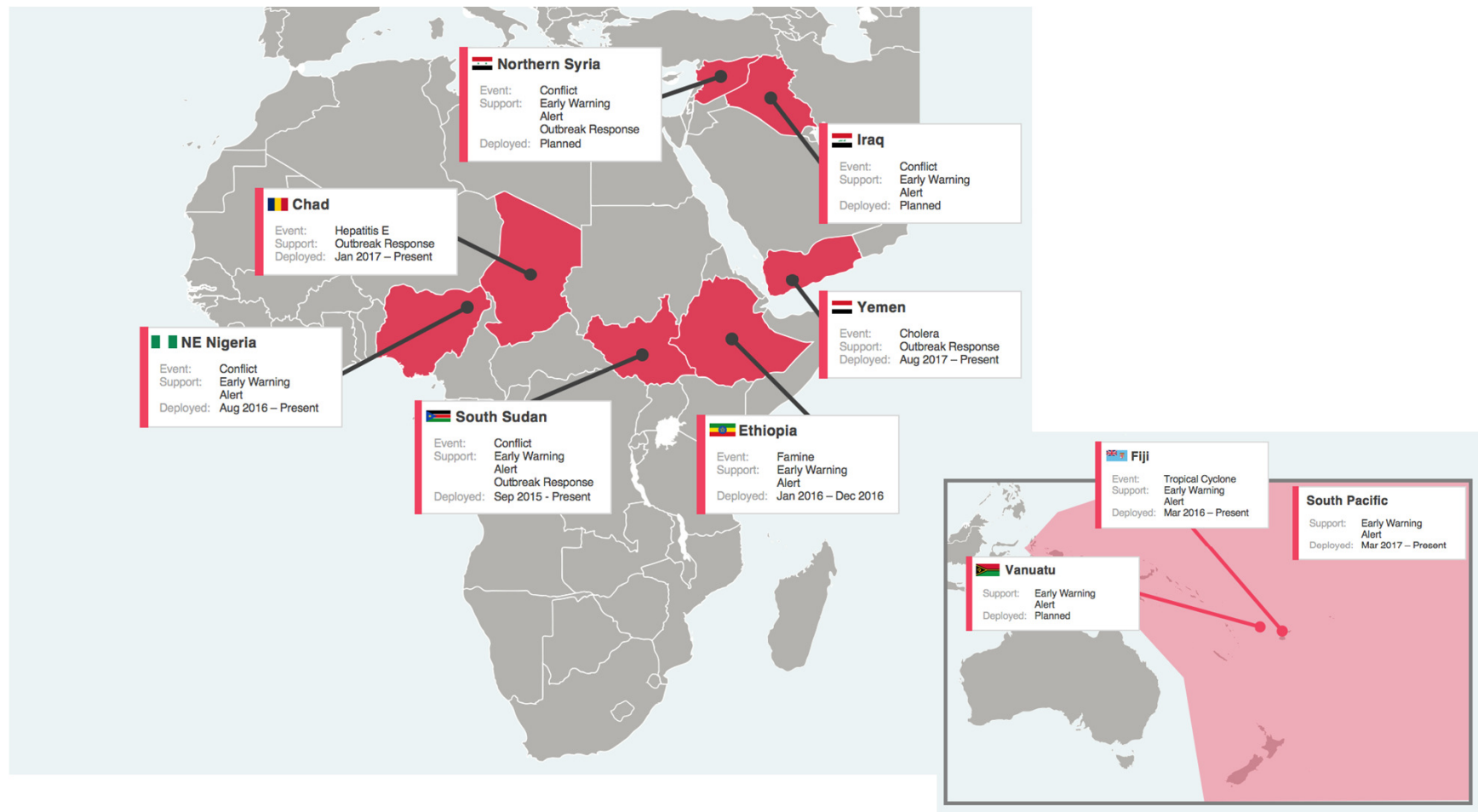


Early Warning, Alert and Response in Emergencies (EWARS)

06 March 2018



EWARS Implementation



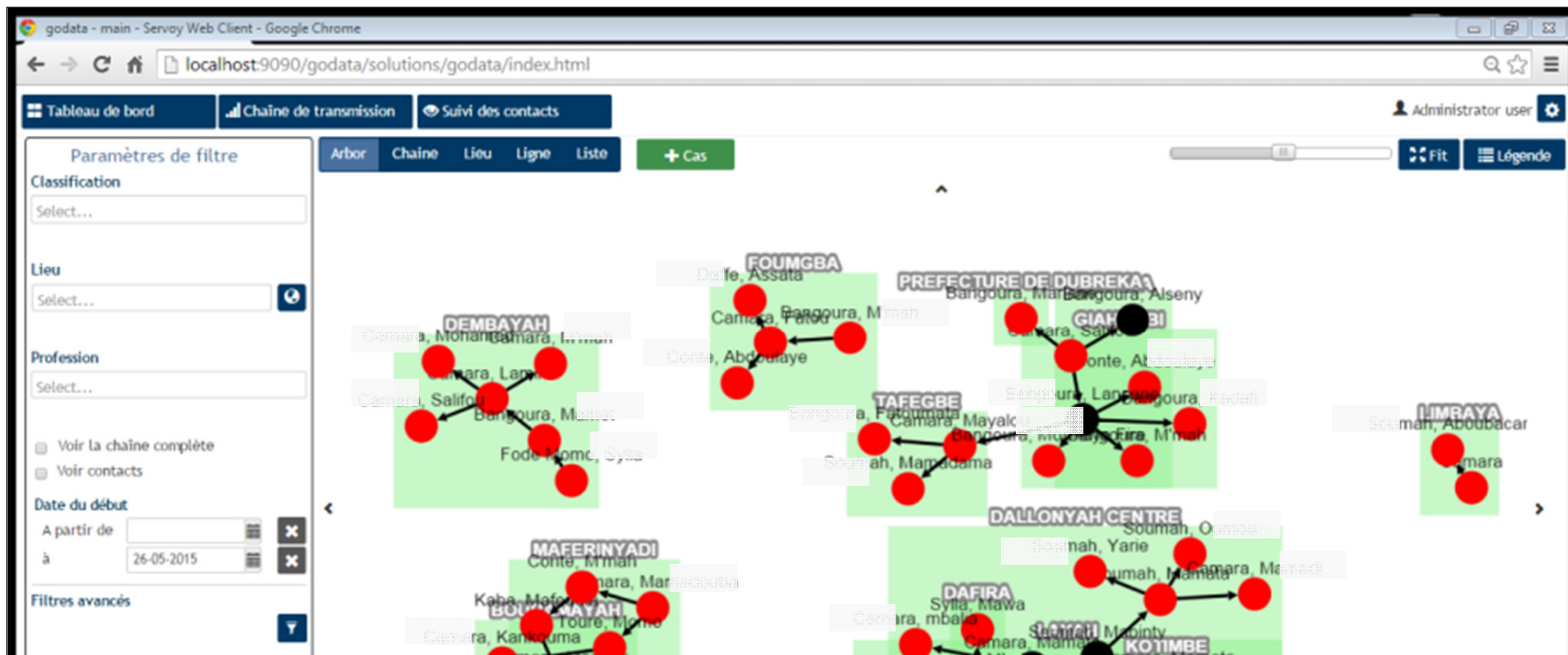
Go.Data

Find Cases

Identify their Contacts

Follow the Contacts Regularly

Treat cases in a timely manner



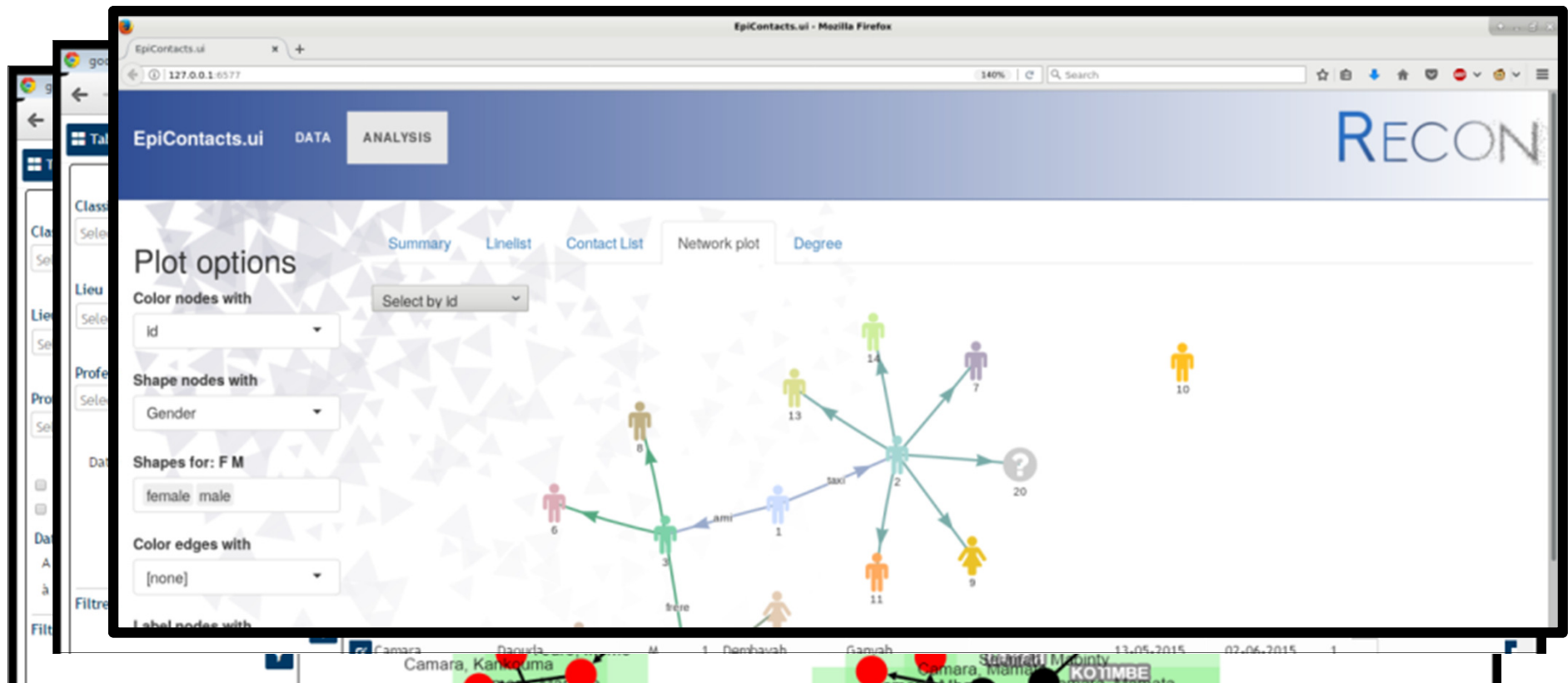
Go.Data

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Summary



Photo: WHO/Lorenzo Pezzoli



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Where are we Going Next?

- **Prioritize EIOS and Go.Data**
- **Incremental investments to strengthen and integrate other systems**
- **Leverage data platforms for performance improvement**
- **Drive information dissemination**
 - Dashboard public view
 - Faster sharing of updates through social media
- **Partnering for success**



Photo: WHO/Lorenzo Pezzoli

THANK YOU



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