

EWARS in a box

Electronic Early Warning, Alert, and Response System in emergencies









When emergency happens, it...



Displacespopulations to
temporary camps,
shelters or
settlements



Disruptspre-emergency
surveillance
mechanisms



Damages
existing health
centers,
demanding
reporting from
newly settled
temporary
health facilities,
field and camps
clinics, mobile
clinics, and the
community



Deranges
WASH and
shelter
conditions
increasing risk
of spread of
outbreak,
while poor
nutrition and
food security
threatens high
mortality





Why Early warning, alert and response is important in emergencies?



Emergencies increase risk of spread of communicable diseases

Detecting communicable disease outbreaks early ensures reduction of preventable morbidity and mortality

Ensuring effective disease early warning system in emergencies is a core commitment of WHO emergency response (WHO Emergency Response Framework)





How does EWARS in a box work?

EWARS in a box mobile application

Collect data with EWARS in a box mobile application

EWARS in a box web

Manage alerts, and response at the surveillance office

Interacts

with the field with laboratories with response teams







What does EWARS in a box offer?

Real-time reporting from the field

From the primary health care when a clinician suspects a disease from the community, or a rumor is heard

Interactive alert management

Alert verification, risk assessment, and confirmation between the field, surveillance office and the laboratory

Line-listing when an outbreak is identified

Real-time mobile reporting can be established from treatment centres and hospitals for case-based data

Advanced data analysis, GIS mapping

In-built plots, mapping, notebook functions for data analysis

Easy data visualization and dissemination for rapid response

Automated bulletins, dashboards and websites





EWARS in a box is always ready to be deployed...

Emergencies allow no time for procurement, not enough human resources to assemble equipment to collect data

is always ready to be deployed within 48hrs of emergency been declared

Each KIT supports
50 Primary care
facilities

= **500 000 population**







EWARS in a box is designed with the needs of frontline users in mind.

It is a simple, rapidly deployable and flexible tool.







Since 2015...



with early warning of disease outbreaks

with response when outbreaks were detected e.g. Cholera, Measles outbreaks

Early warning around specific disease outbreaks e.g. Ebola, Hep A outbreaks





Key areas of EWARS in a box?

Collect data from various sources

Primary health care

- Camp clinics
- Mobile clinics
- PHCs
- Field laboratories

From the community

- CHWs
- CHVs
- Hotlines
- Community itself

Alerted to disease outbreaks

Interactive alert management between the field and the surveillance office

- Use standard case definitions
- Use standard alert thresholds
- System-generated alerts for increasing trends, seasonal increments

Response

Interactive response with the field, surveillance office, lab and response teams

- Direct lab confirmation with unique identifiers
- Line-listing during outbreaks
- Data analysis
- Data dissemination







Can EWARS in a box mobile work in difficult emergency settings? Yes, Can.



under reliable internet

via EWARS-in-a-mobile app

in settings with unreliable internet connection

via EWARS in a box SMS gateway app

in remote localized settings with no internet

Mobile reporting with hotspots via QR code scanning





EWARS in a box web



Supports the surveillance office at sub-national and national level

Supports surveillance officers to manage alerts timely, interactively with the field

Supports advanced data analysis, and visualization

Supports data dissemination with response teams, health partners





EWARS in settings with unreliable internet connection

EWARS mobile app collects data from various field settings

Mobile app can contain any number of reporting forms, reporting is few clicks

Real-time reporting

Can be aggregated data or case-based data





Alert management

Real-time rumour reporting with event-based surveillance reporting forms Indicatorbased reporting from healthcare facilities EWARS in a box system can be fed with standard alert thresholds – EWARS alerts the surveillance officer when reporting crosses set alert thresholds EWARS in a box manages electronic alert logs









EWARS in a box web supports surveillance office

It helps build...

Automated EWARS bulletins

EVANTS OF CONTROL OF C

Dashboard



Web builder



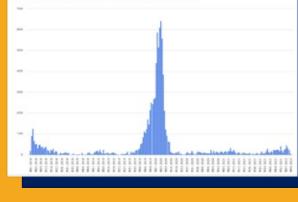


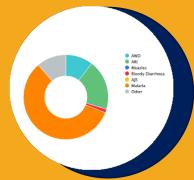


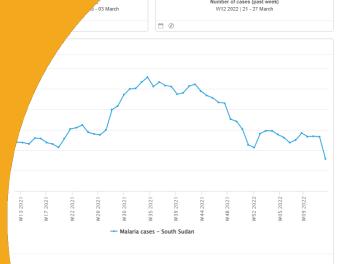
EWARS in a box support multiple dashboards











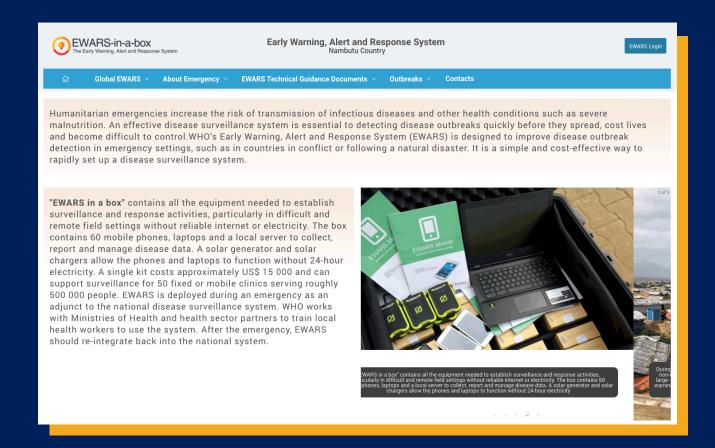
Map of malaria cases







Supports easy building of websites to connect with the public













Real-time laboratory reporting



Laboratories can directly report to EWARS in a box via mobile app

Real-time reporting when priority diseases are confirmed





Multilingual support



EWARS in a box can speak over 60 languages in the mobile app and in the web interface.





Stand-alone offline reporting

For contexts with no reliable internet connection at the primary healthcare or community level, EWARS in a box can provide a stand-alone system.

QR Code Sharing via mobile hotspots









Stand-alone System to collect data



Global EWARS



Offline remote, inaccessible environments





Integration with other tools & platforms

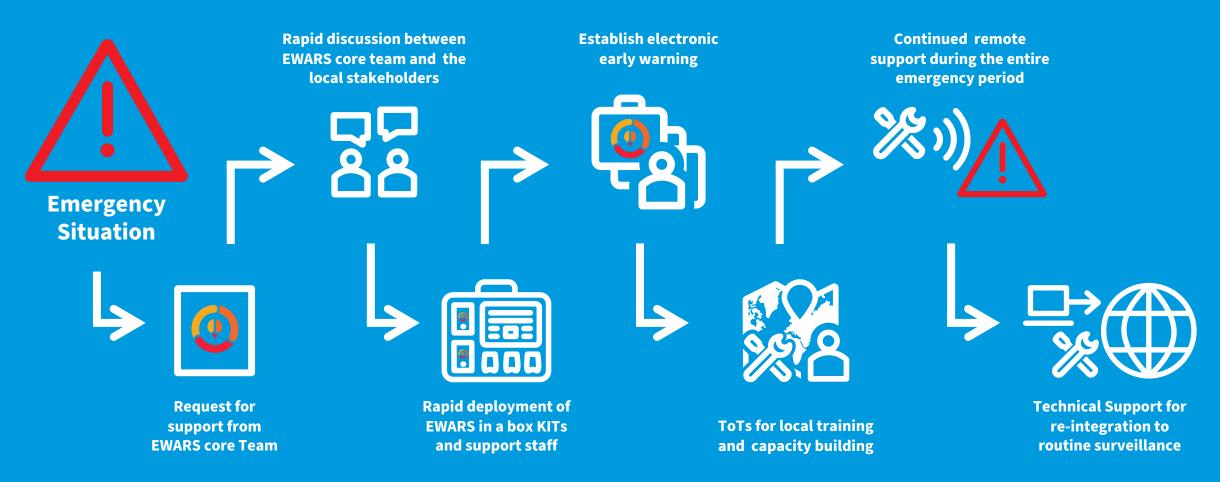
Introduction of APIs allows EWARS in a box to integrate with existing emergency, outbreak tools and health Information systems.







How to get EWARS in a box support in a crisis?





EWARS in a box is fully supported by WHO Health Emergencies Program

Please write to us ewars@who.int

Visit us at

https://www.who.int/emergencies/surveillance/early-warning-alert-and-response-system-ewars



