



Global Health Security WHO's role



Dr. Isabelle Nuttall
Director
Global Capacities, Alert and Response

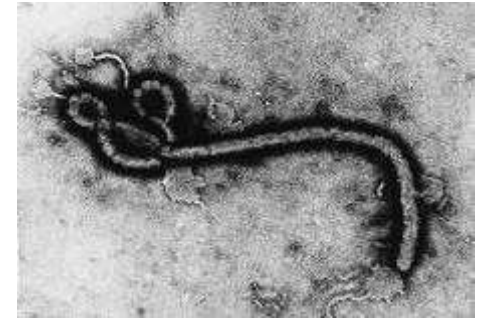


**World Health
Organization**



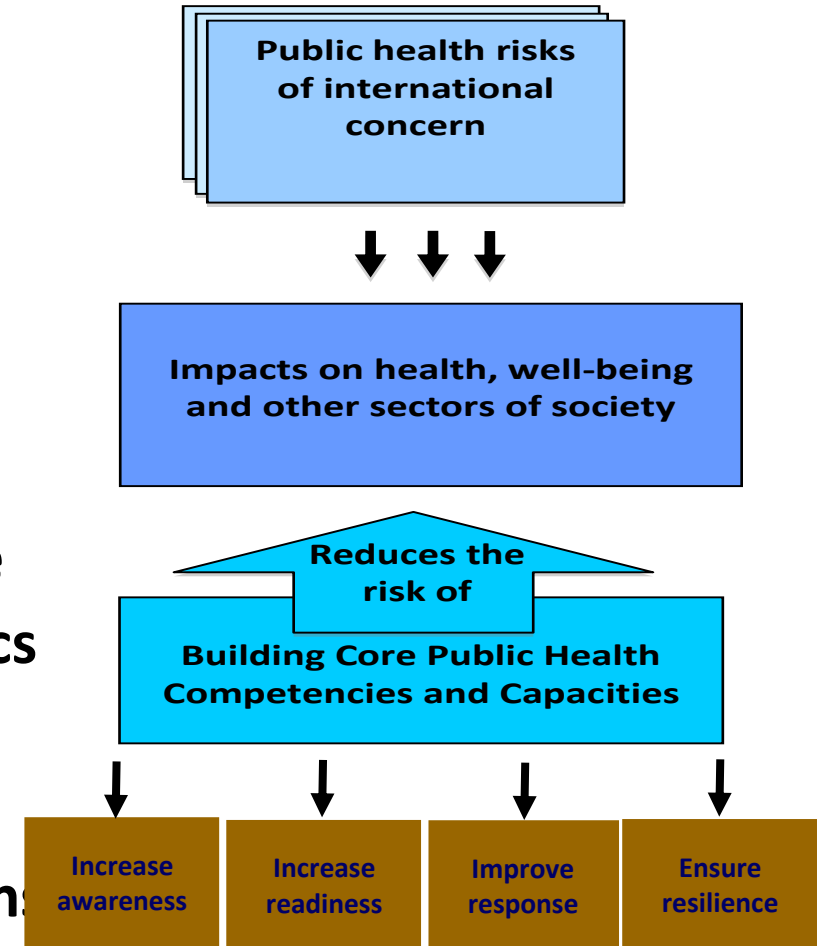
Maintaining health security is a challenge...

- **Emergence** of new or newly recognised pathogens (e.g. Ebola, Marburg, SARS, Avian flu (H5N1), Pandemic H1N1)
- **Resurgence** of well characterized outbreak-prone diseases (e.g. cholera, dengue, measles, meningitis, shigellosis, yellow fever)
- **Release** (accidental or deliberate) of a biological agent (e.g. BSE /v CJD, smallpox, SARS, anthrax)



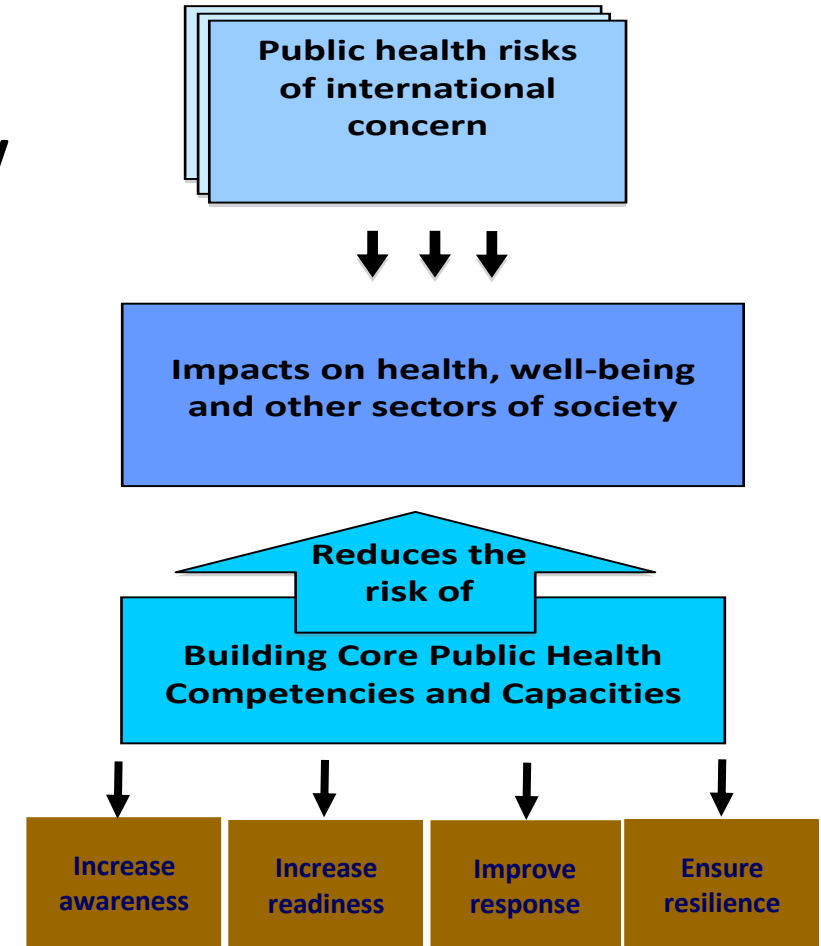
A simple approach to build national and international capacities, competencies and practices

- Those that increase awareness
 - Access to scientific knowledge
 - Surveillance systems
 - Risk analysis and assessment
- Those that increase readiness
 - Sound health systems and infrastructure
 - Availability of vaccines, drugs, diagnostics
 - Multi-hazard operational planning
 - Multisectoral engagement
 - Exercises, events, and refinement of plans



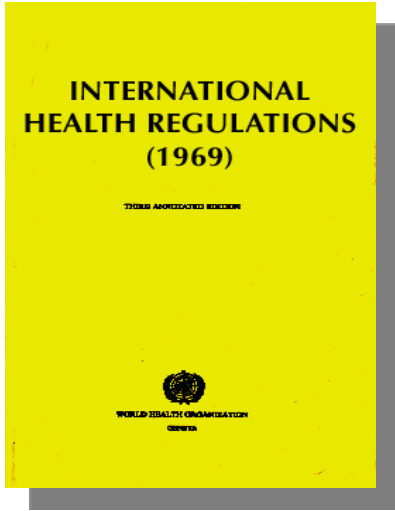
A simple approach to build national and international capacities, competencies and practices (ctd.)

- Those that improve responses
 - Timeliness, coordination, surge capacity
 - Public health risk communication
 - Access to external support/expertise when needed
 - Applied research for better control in future
- Those that ensure resilience
 - Reinforcement of baseline functional capacities
 - Flexibility of systems
 - Adaptability of behavior



The International Health Regulations (2005)

A legally binding framework for Global Health Security



From three diseases **to**

From preset measures **to**

From control of borders **to**

all public health threats
risk assessment response
also containment at source



World Health
Organization

The International Health Regulations (2005)

- The IHR (2005) provide the legal framework for **collective responsibility** in global health security
- The IHR specify the roles, responsibilities and core capacities for **Member States and WHO**
- The IHR reinforce WHO's central role in managing acute public health risks, including **providing information and technical support to countries**
- The effectiveness of the IHR requires international, multisectoral operational readiness and responsiveness

WHO structures, processes and tools exist to support strong national public health systems and effective international systems for detection, assessment, information and response.



Strategic actions to guide IHR(2005) implementation

	Strategic action	Goal	
GLOBAL PARTNERSHIP			Awareness
1	Foster global partnerships	WHO, all countries and all relevant sectors (e.g. health, agriculture, travel, trade, education, defence) are aware of the new rules and collaborate to provide the best available technical support and, where needed, mobilize the necessary resources for effective implementation of IHR (2005).	
STRENGTHEN NATIONAL CAPACITY			8 core capacities All hazard Points of entry
2	Strengthen surveillance and control systems	National alert & response systems the risk of international disease spread.	
3	Strengthen security in travel and transport	Travel & transport airports, ports and ground crossings in all countries.	
PREVENT AND RESPOND TO INTERNATIONAL PUBLIC HEALTH EMERGENCIES			
4	Strengthen and improve international public health measures and response capacity at designated points of entry	Global alert & response	
5	Strengthen the management of specific risks	Specific risks (e.g. influenza pandemic) substances.	
LEGAL ISSUES AND MONITORING			A legal and monitoring framework
6	Sustain rights, obligations and procedures	New legal mechanisms as set out in the Regulations are fully developed and upheld; all professionals involved in implementing IHR (2005) have a clear understanding of, and sustain, the new rights, obligations and procedures laid out in the Regulations.	
7	Conduct studies and monitor progress	Indicators are identified and collected regularly to monitor and evaluate IHR (2005) implementation at national and international levels. WHO Secretariat reports on progress to the World Health Assembly. Specific studies are proposed to facilitate and improve implementation of the Regulations.	

* Strategic actions 2–5 are key because they call for significantly strengthened national and global efforts.

GLOBAL PARTNERSHIP

1

Foster global partnerships

WHO, all countries and all relevant sectors (e.g. health, agriculture, travel, trade, education, defence) are aware of the new rules and collaborate to provide the best available technical support and, where needed, mobilize the necessary resources for effective implementation of IHR (2005).

- **Other Technical Intergovernmental organizations**

e.g. FAO, OIE, ICAO, IMO, UNWTO, IAEA, WTO, UNEP ...

- **Development agencies / Regional intergovernmental organizations**

e.g. AFD, CIDA, DFID, JAICA, USAID, ADB, ASEAN, EC, MERCOSUR, WB ...

- **WHO Collaborating Centres and Technical partners**

International Networks / National agencies / NGOs: e.g. GOARN, IANPHI, Pasteur IN, MSF, TEPHINET, DoD-GEIS, ICMM, CDC, ECDC, HPA, InVS ...

- **Industry associations** e.g. ACI, IATA, ISF, ISO ...

- **Professional societies** e.g. ASM, APHL, ISTM ...



World Health
Organization

STRENGTHEN NATIONAL CAPACITY

2

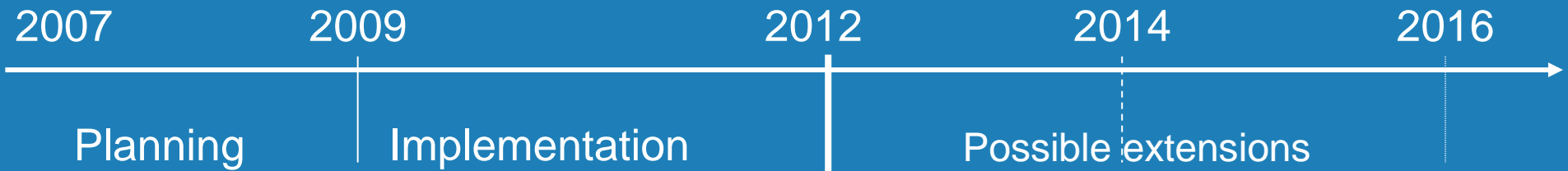
Strengthen national disease surveillance, prevention, control and response systems

Each country assesses its national resources in disease surveillance and response and develops national action plans to implement and meet IHR (2005) requirements, thus permitting rapid detection and response to the risk of international disease spread.

Core capacity requirements for surveillance and response ([Annex 1A](#)):

“capacity to detect, assess, notify and report events ...”

• Timeline



"As soon as possible but no later than five years from entry into force ..."



15 June 2012

Detecting, assessing, notifying and responding

Core capacities

- Legislation and Policy
- Coordination
- Surveillance
- Response
- Preparedness
- Risk Communications
- Human Resources
- Laboratory

3 level system

- National
- Intermediate
- Peripheral/Community

All hazards

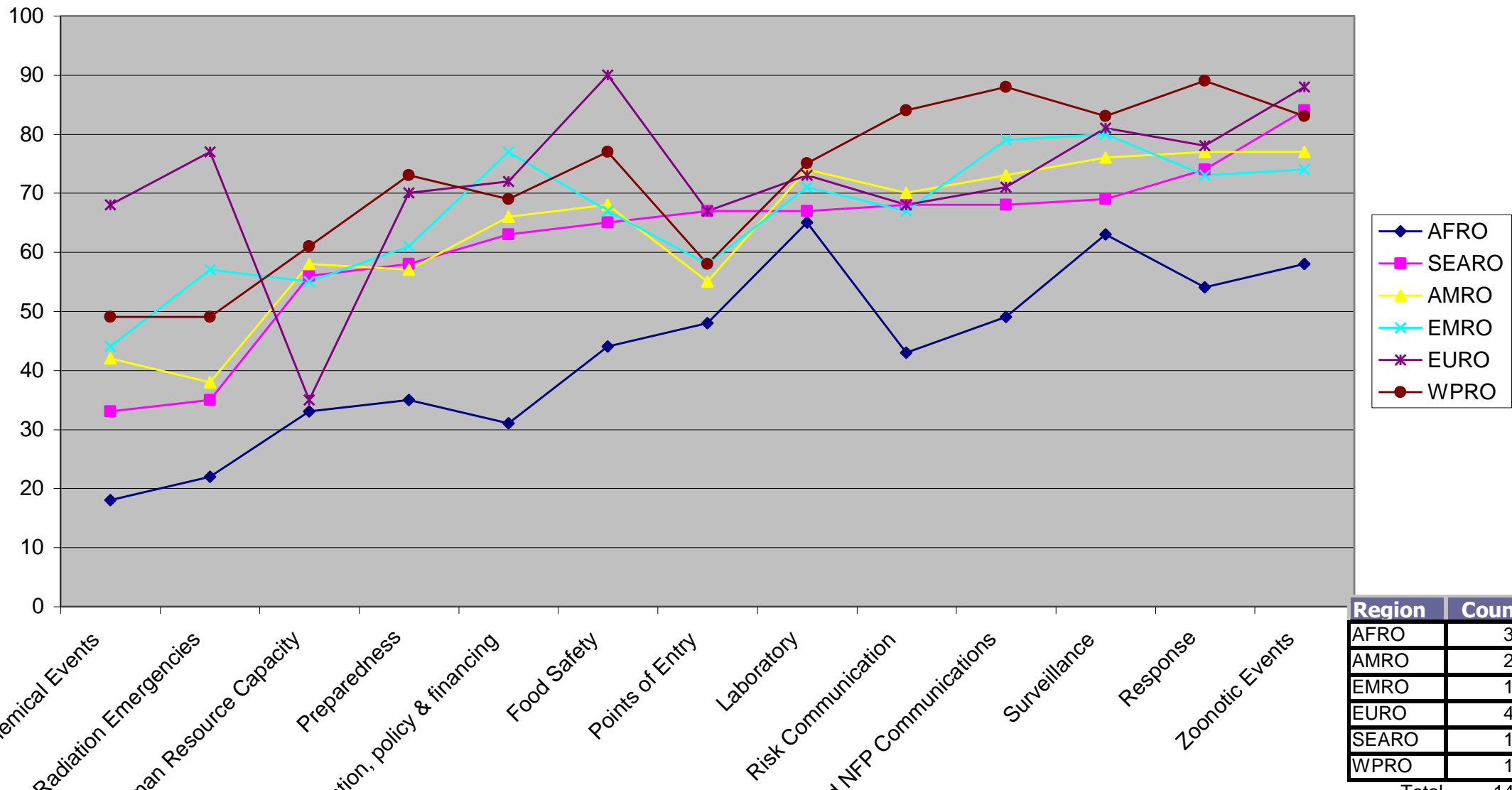
- Biological
 - Infectious
 - Zoonosis
 - Food safety
- Chemical
- Radio nuclear

Points of Entry and
international travel



World Health
Organization

2011 – Results of IHR core capacities self assessment - (21.01.12) - 146 countries



Region	Count
AFRO	34
AMRO	24
EMRO	17
EURO	43
SEARO	11
WPRO	17
Total	146

3

Strengthen public health security in travel and transport

The risk of international spread of disease is minimized through effective permanent public health measures and response capacity at designated airports, ports and ground crossings in all countries.

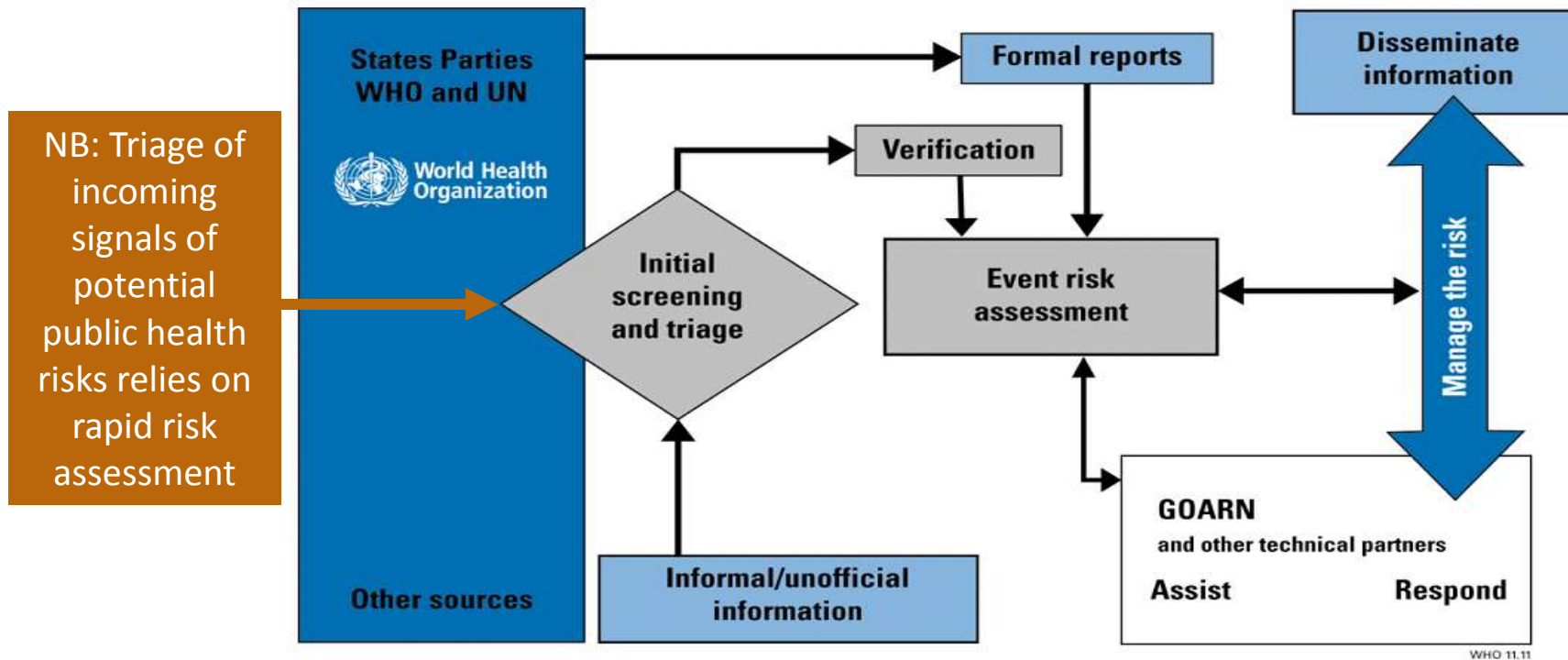
- **At all times**
 - Access to medical service
 - Transport of ill travellers
 - Inspection of conveyances (e.g. Ship Sanitation Control Certificate)
 - Control of vectors / reservoirs

- **For responding to events**
 - Emergency contingency plan
 - Arrangement for isolation (human, animal)
 - Space for interview / quarantine
 - Apply specific control measures

Annex 1B



WHO's public health event management – Identify, Assess, Assist, Inform



WHO Portal

EMS

Regions: Events: Diseases/Conditions: Contacts

FOR INTERNAL WHO USE ONLY

Global Summary

Select Country

Summary of Ongoing Events

Event	Total Events
Influenza	10
Measles	5
Cholera	3
Polio	2
Other	1
Total	21

States Parties

Event Information Site
by IHR National Focal Points

Current Events

This site has been developed by WHO to facilitate secure communication with the IHR National Focal Points (NFP) part of the implementation of the International Health Regulations (2005).

Information on this site is provided by WHO to National Focal Points, in confidence, as specified in Article 13.3 of the IHR (2005).

Region	Country	Disease	Syndrome	Status	Updated	Info/Status
AMRO	Peru	Prostate	Adverse effects of viral vaccines	Public Health	2007/12/16	Public Health (Diseases)
EMRO	New Zealand	Prostate	Acute Neurological Syndrome, unsp...	Public Health	2007/11/30	Public Health (Diseases)
EMRO	Sweden	Infectious	Acute Hemorrhagic Fever Syndrome	Public Health	2007/11/24	Public Health (Diseases)

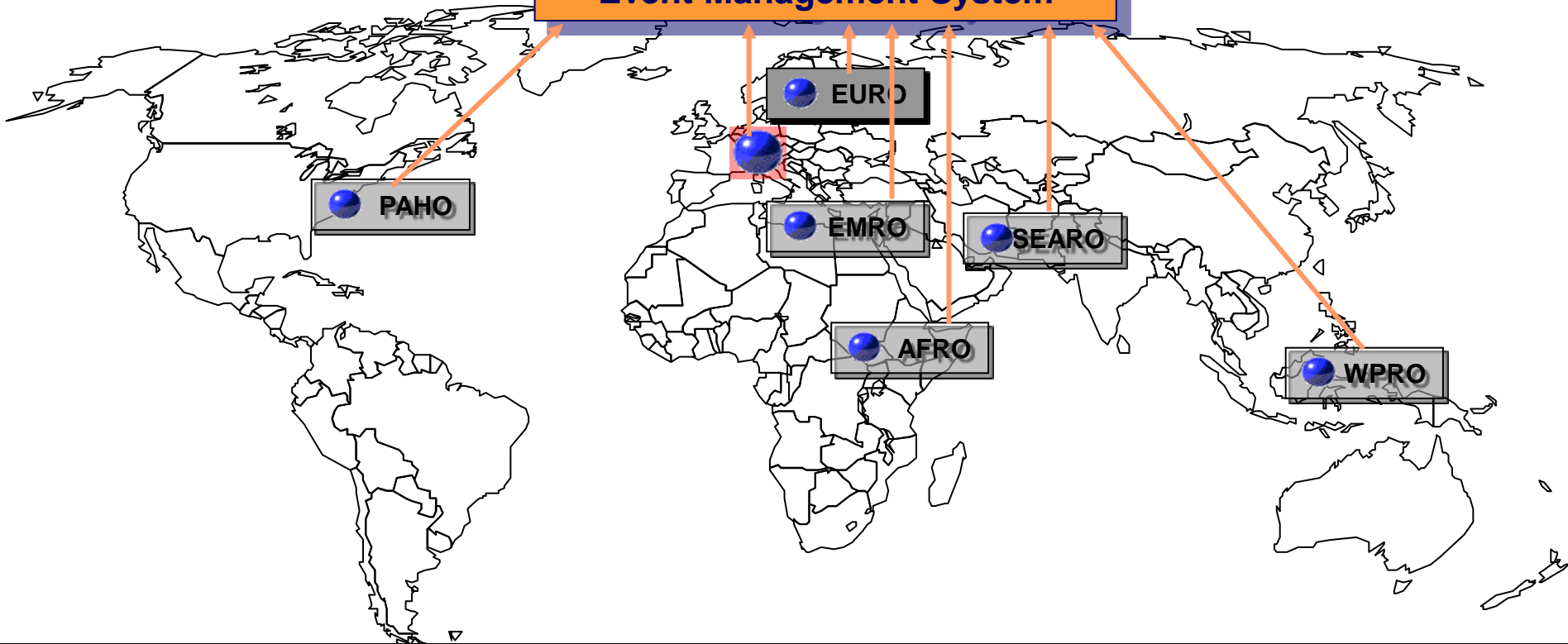
Operations

GOARN

Current Events

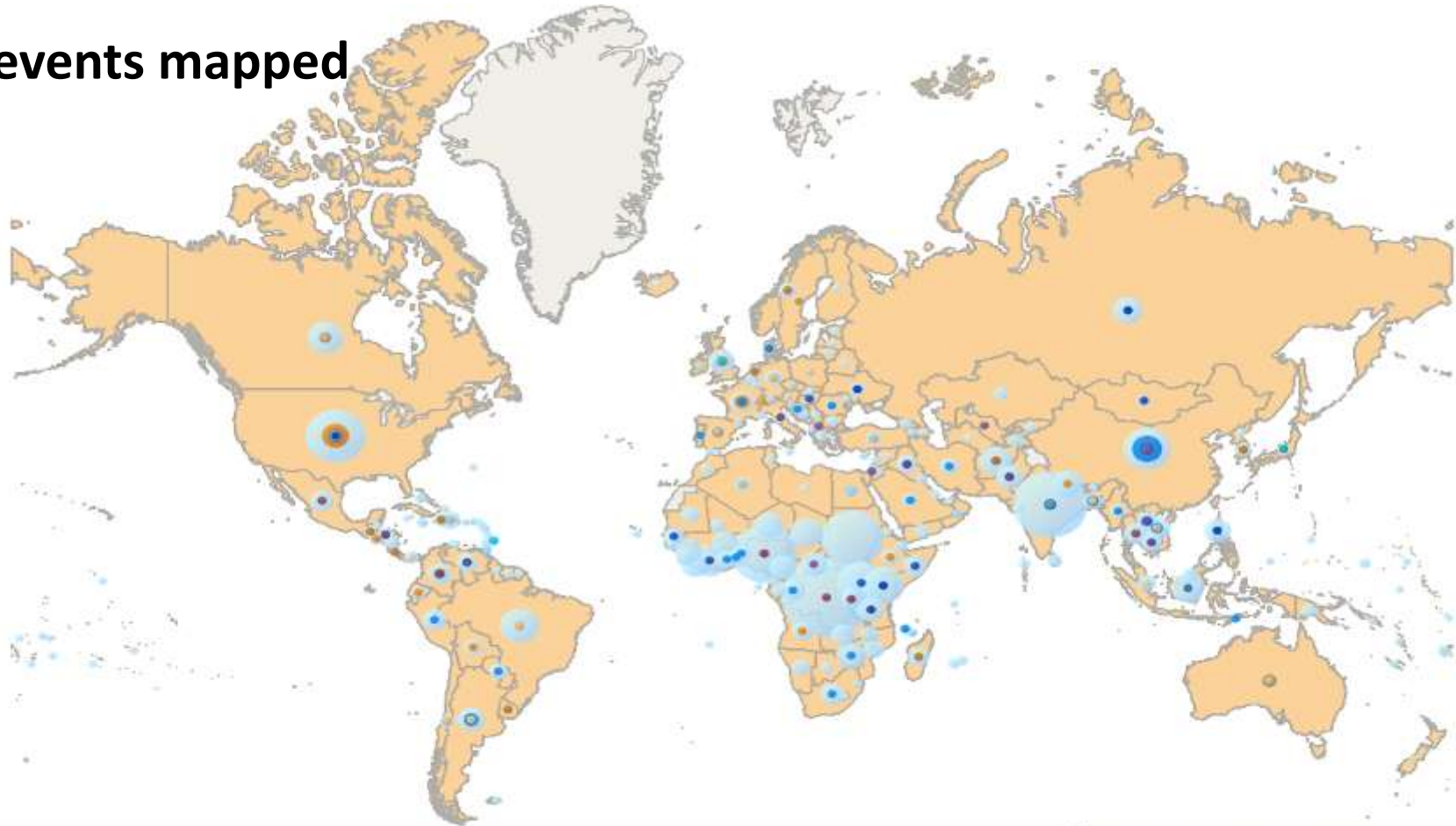
Region	Country	Disease	Status	Updated
AMRO	Peru	Prostate	Public Health	2007/12/16
EMRO	New Zealand	Prostate	Public Health	2007/11/30
EMRO	Sweden	Infectious	Public Health	2007/11/24

Event Management System



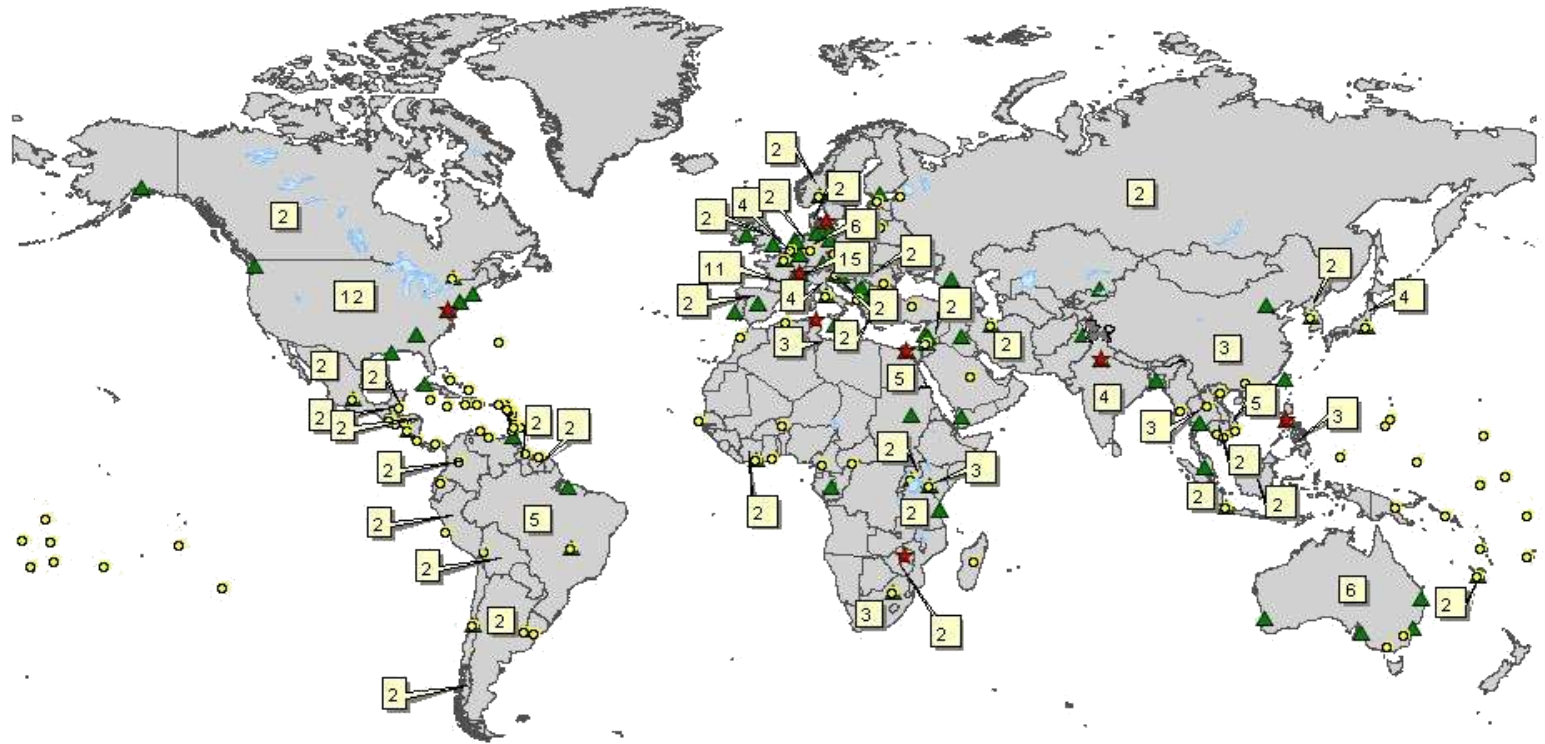
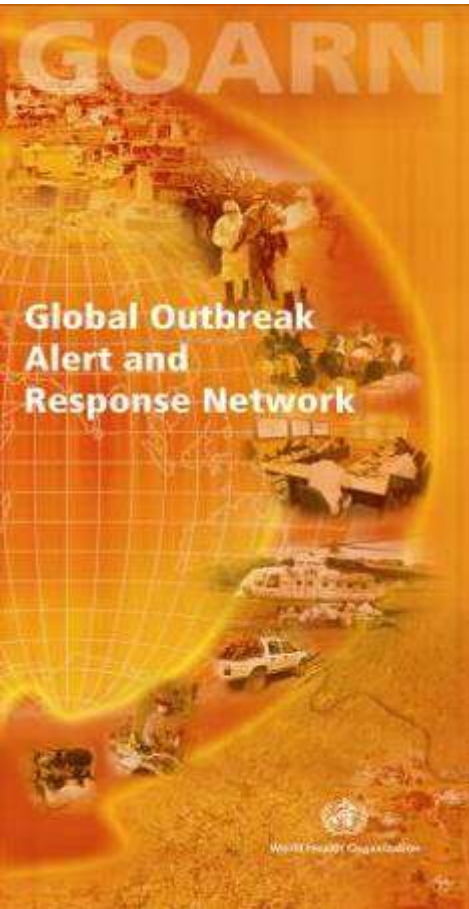
10 years of event-based surveillance, WHO, 1 Jan 2001 – 18 Oct 2011 (N=3870)

Verified events mapped
(n=2524)



World Health
Organization

GOARN Partner Institutions and Networks (n ≈ 300)



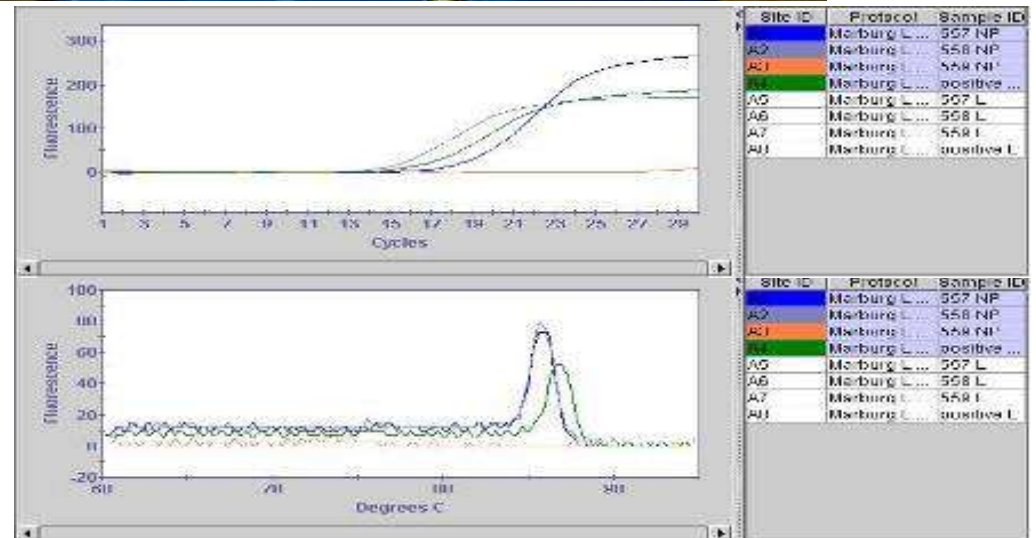
- ▲ Institutions
- Partner Networks and members
- ★ WHO Regional Offices

Active Surveillance by Mobile Teams



World Health
Organization

Collection of Samples, Laboratory



Organisation of Safe Burials



World Health
Organization

Case management



World Health
Organization

Case management: Isolation ward



World Health
Organization

Infection Control



World Health
Organization

Social Mobilization



Logistics and Security



World Health
Organization

Media



World Health
Organization

Coordination



World Health
Organization

Conclusions - I

- The convergence of risk creates a need for the coherence in response
- Sophisticated tools, networks and systems have been developed by WHO and its partners for managing public health risks of any origin
- WHO's primary role in response to an accidental or intentional release of a biological agent will be to manage the public health consequences and communicate real-time public health risk assessments and recommendations



Conclusions - II

- WHO is most effective when it works through partnership and in a coordinated fashion with
 - Member States and other international Organizations
 - Technical partners in the public, academic and private sector
- Effective working relationships have been forged when collaboratively dealing with major threats/events
- These relationships have been based on mutual need, collective responsibility, solidarity, transparency, personal commitment, and pride in our organizations and systems
- **This is not reproducible or sustainable without a major investment in national, regional and global public health capacities**

