

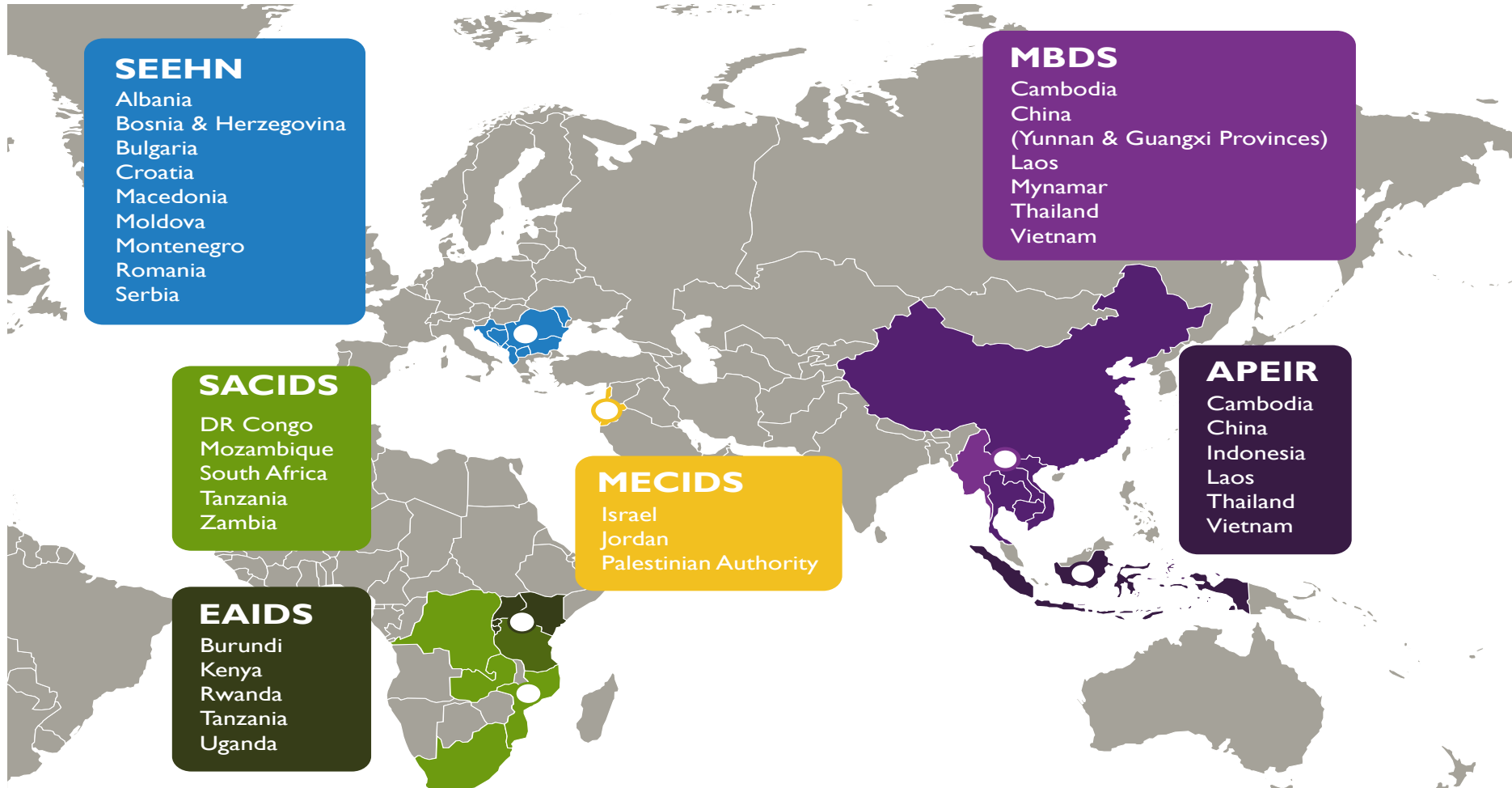
CORDS and One Health

Professor Nigel Lightfoot CBE Executive Director



C  **R D S**

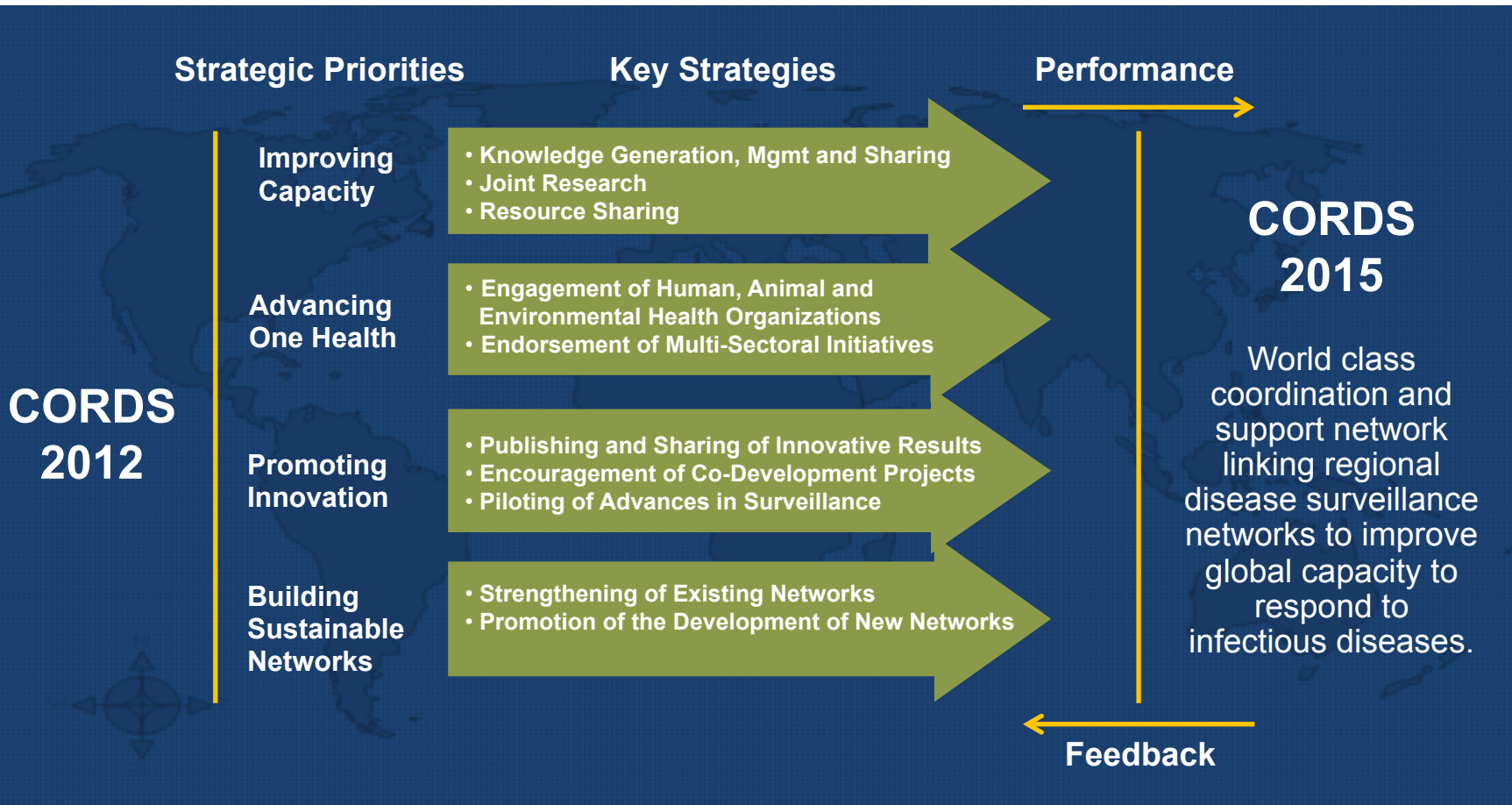
Connecting Organizations for
Regional Disease Surveillance



The CORDS Network

Six Major Regional Networks





CORDS Strategic Orientation



2012 to 2015: Priorities, Strategies, Performance and Feedback



The CORDS Mission

To **link** regional and sub-regional disease surveillance networks.

To **share** key information and **real-time** data.

To conduct collaborative efforts **to improve global capacity to respond to infectious diseases** both endemic and emerging.

To promote effective disease surveillance through laboratory diagnosis, field diagnostics, reporting, communication tools.

To share information, learning, and a **real-time exchange of views in a trusted network, even in a period of uncertainty** or during the course of a response to an event.



The World is Changing

- The internet
- Mobile phone technology
- Emerging diseases
- New diseases
- Changes in endemic diseases
- Climate change
- Vector changes

Global aviation network

Disease can spread anywhere in 24 hrs



Drivers, dynamics, and control of emerging vector-borne zoonotic diseases. The Lancet 380:9857, 1-7 Dec 2012, pp. 1946-55. www.sciencedirect.com/science/article/pii/S0140673612611519



The Internet

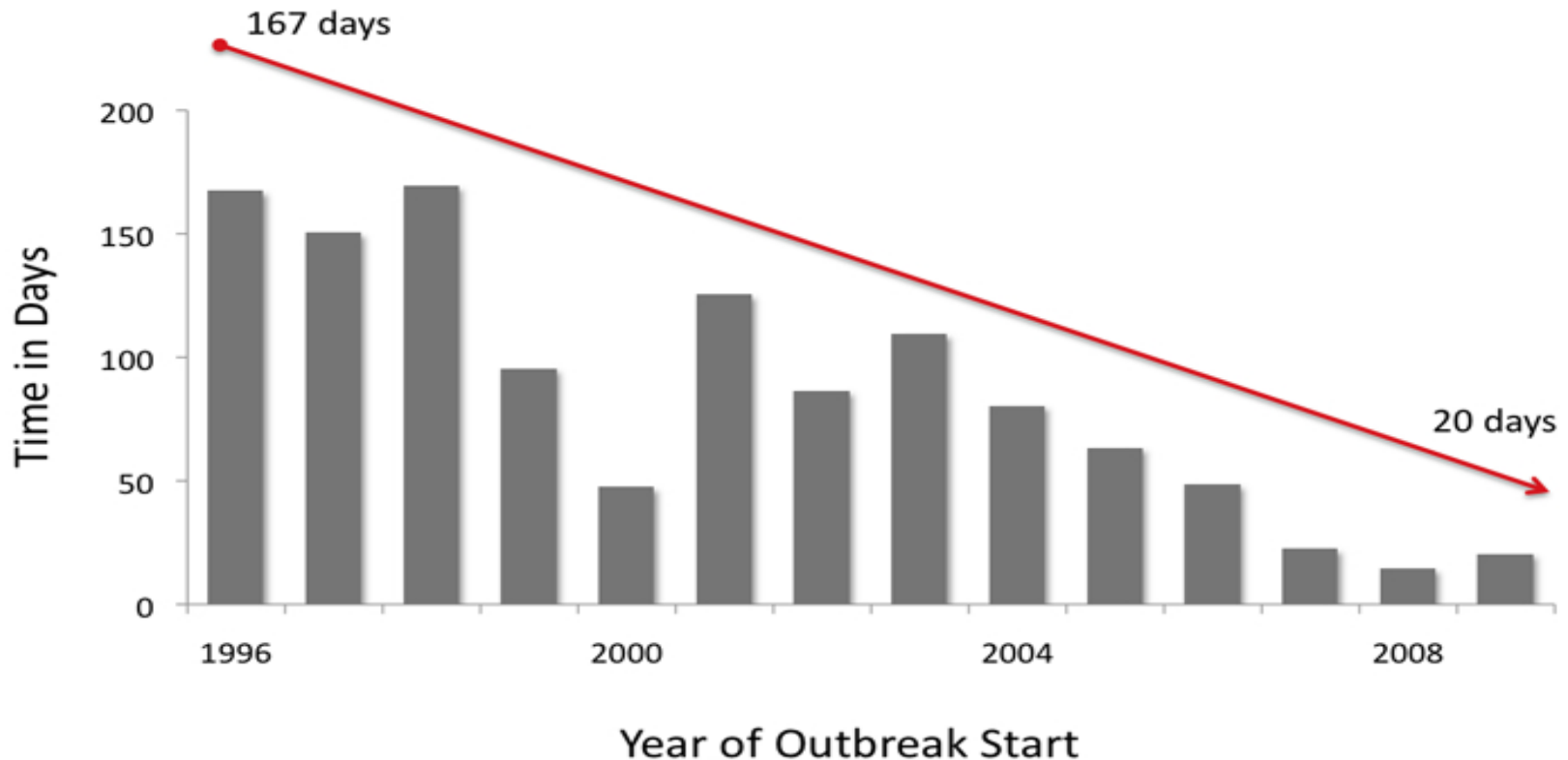
- The news is out there fast
- Twitter
- Facebook
- Data mining
 - Healthmap
 - Promed
 - Medisys
 - Biocaster
- EAR project of Global Health Security Initiative



Why we need to do better

- SARS
- Pandemic influenza H1N1 2009
- Hand foot and mouth disease
- Nodding disease
- Skin disease in Vietnam
- New coronavirus
- The next pandemic

Time from outbreak start to outbreak discovery is shrinking



Chan EH, et al. *Global capacity for emerging infectious disease detection*, December 14, 2010, 107:50, pp. 21701-21706; www.pnas.org/cgi/doi/10.1073/pnas.1006219107



Progress in Ebola outbreak detection and response, Uganda

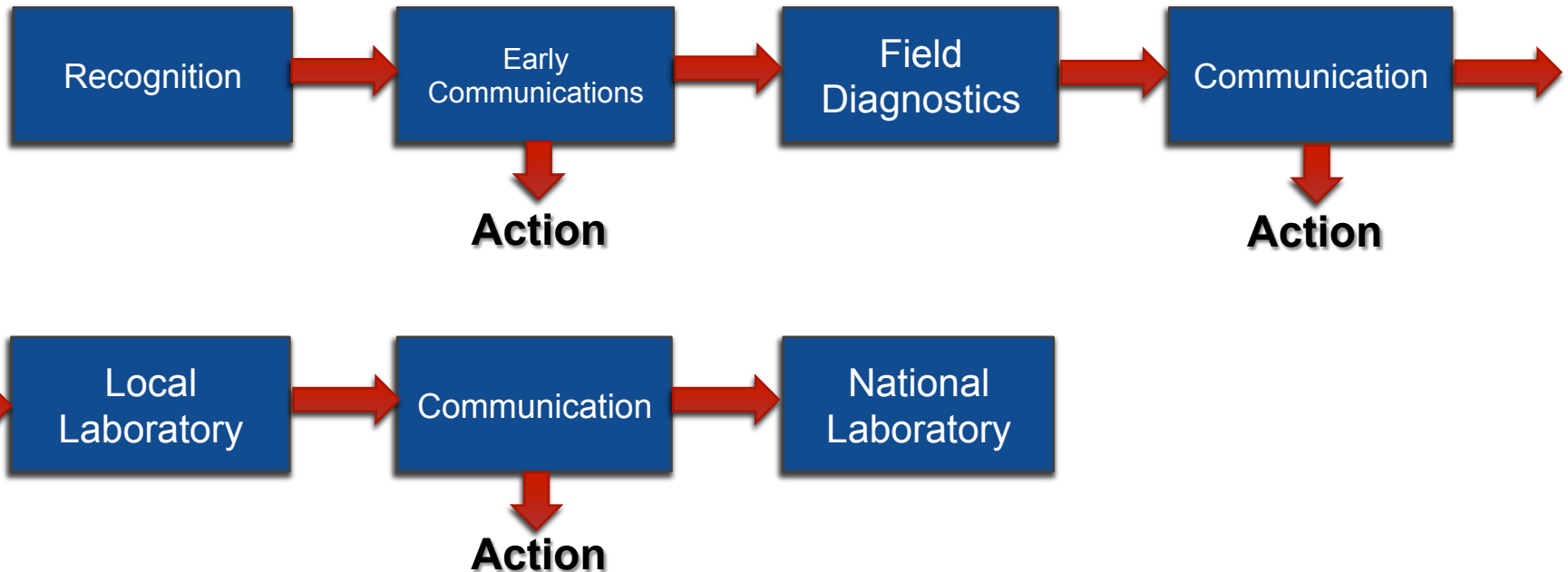
Improved testing/monitoring for Ebola outbreaks

Year	Response timeline	No. of cases
2000	38 days from 1 st known case to preliminary investigation	425
2007	2.5 months from 1 st known case to preliminary investigation	131
2011	1 day between case confirmation and response	1 confirmed case
2012	2 days between lab confirmation & response (but 38 days between index death & response – need for quicker response even in absence of lab confirmation)	24 cases, 16 deaths



The CORDS Concept

From Surveillance to Intelligence



Early Communication is the Key!!!



CORDS and Communication

- Communication needs trust
- Risk communication needs training
- Early communication needs tools
 - Mobile devices
 - Internet
- New CORDS Website
 - Members area
 - Daily news service



The Cords Programme

- Mapping the Networks
- Stakeholder Mapping and Engagement
- Web portal for virtual library and trusted communications
- Annual Networks Workshop
- Innovative Operational Research Projects
- One health workshops
- Advocacy on behalf of the Networks