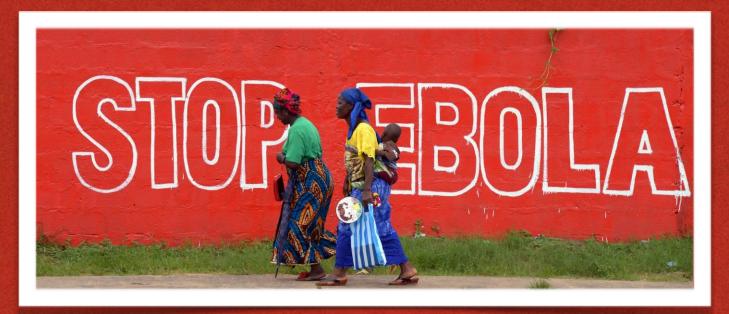






A Journey of Perspectives



Harold Figueroa

Team Leader Environmental Health
Metro South Public Health Unit, Brisbane Australia

WHY???

- Good question!!
- It reflects the expanding role of our profession. Context is unique but issues remain the same? You be the judge



The journey - Destination

Pre-deployment training in Canberra from 26-28 Nov 14. Flights to Sierra Leone from 1300hrs 28 Nov 18

"We are travelling to the worst affected city in the worst affected country in the worst ever recorded epidemic of the most lethal communicable disease described."

> Dr John Gerrard, Director Infectious Diseases, Gold Coast Hospital and Health Service



Mission

- To commission and operate a 100 bed Ebola Treatment Centre, at Hastings Airfield, Sierra Leone constructed by UK Govt as part of Australian Govt's response.



Ebola Situation Report 11 MAR 15

Country	Cumulative cases
Guinea	3285
Liberia	9343
Sierra Leone	11619
TOTAL	24247



Ebola Infected Healthcare Workers (HCW)

11 Mar 15



Country	Cases	Deaths
Guinea	173	90
Liberia	372	180
Sierra Leone	295	221
Total	840	491

Ebola Virus Disease

Two important facts

1. It is among the most lethal communicable pathogens described (70% mortality)





Ebola Virus Disease

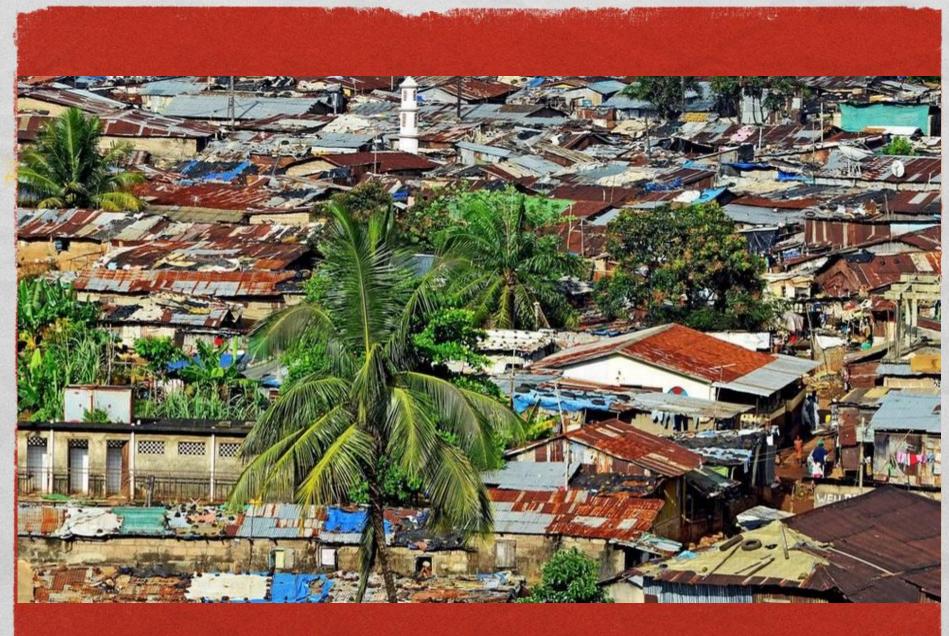
Two important facts

- It among the most lethal communicable pathogens described
- Transmission requires contact with the body fluids of symptomatic patients





Image for illustrative purposes only



Freetown, Sierra Leone





recognitive statements in the later



Intervention Strategies

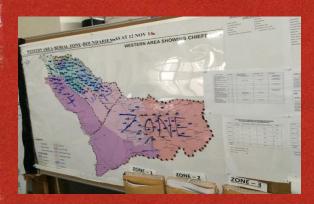
In-country training MSF Bo and Kailahun.

Contact tracing and quarantining

Hospital case isolation

Hygienic burial of hospital and community deaths







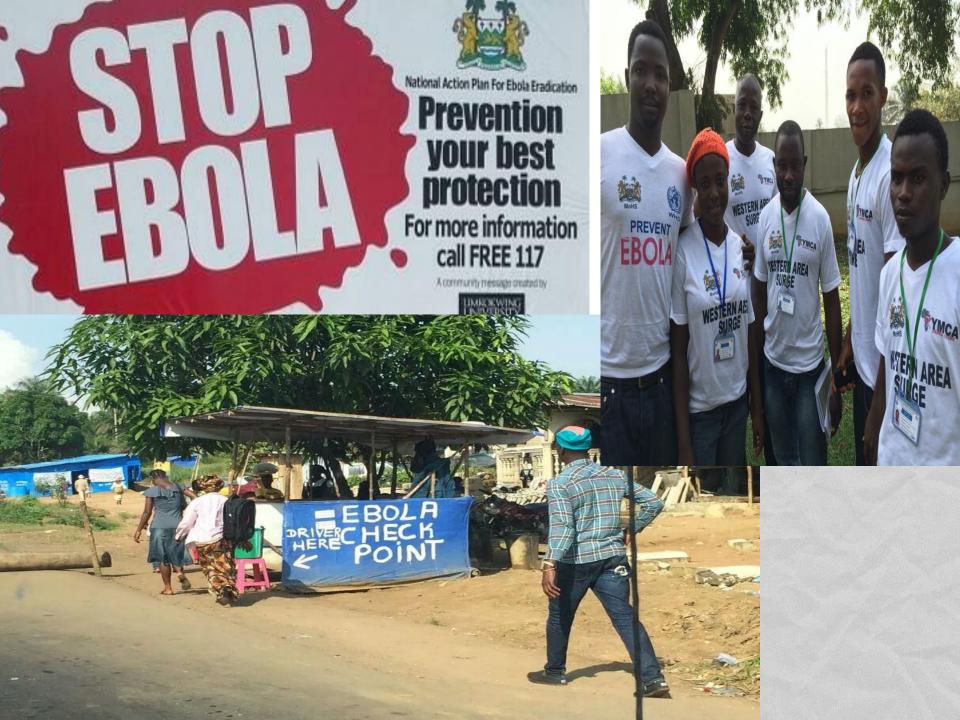


TERN AREA EMERGENCY RESPONSE CENTRE



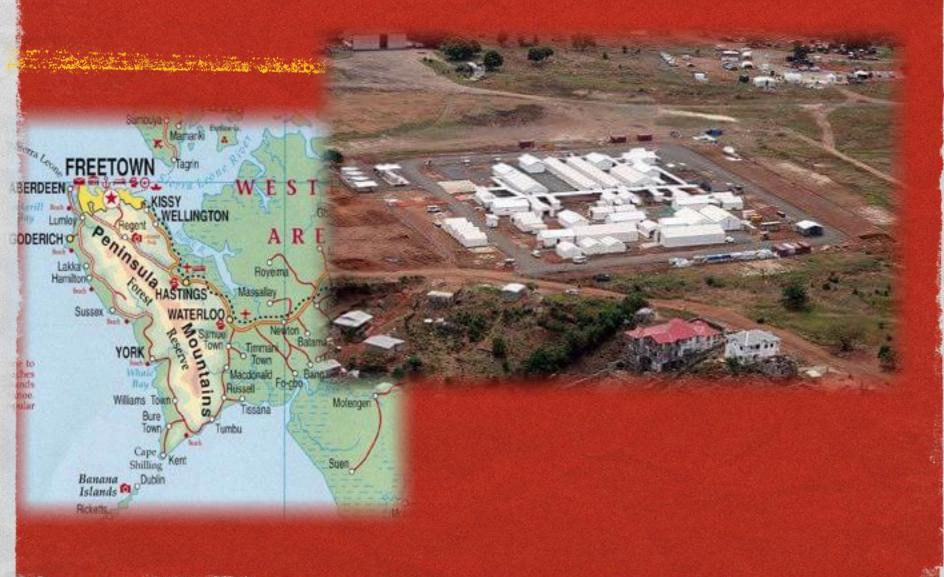








Hastings Airfield ETC



Entrance to ETC







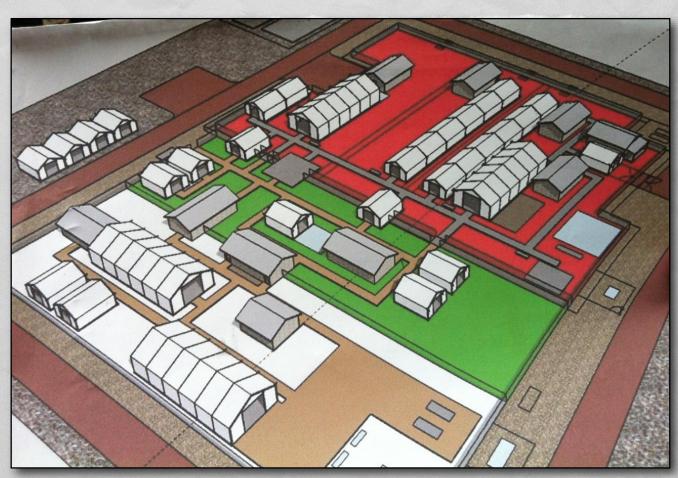
The Three zones...

White: administration and storage

Green: clinical

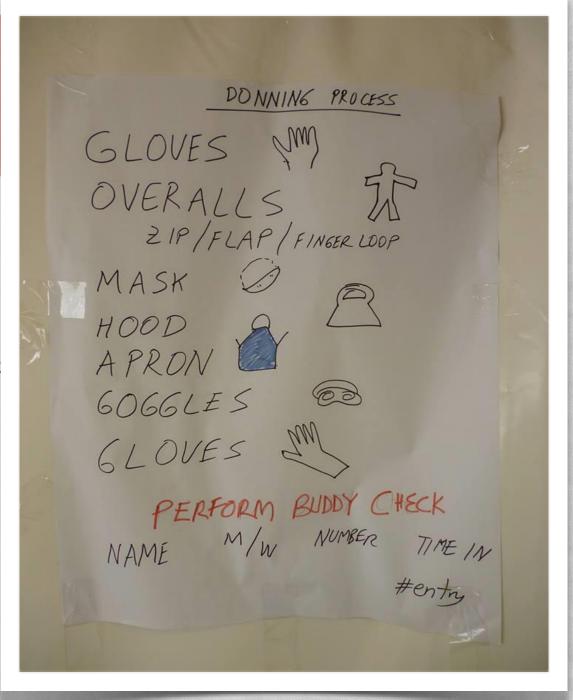
Red: contaminated

and patient



Donning

- Takes about 10 minute
- With assistance





Buddy check and timing





Every entry and task requires a team











0.05% chlorine (500ppm)

Raw (untreated) water

0.5% chlorine (5000ppm)





to the second

Doffing PPE 10 mins process







WASH HANDS-SPRAY FRONT/BACK REMOVE GLOVET WASH HANDS-REMOVE APRON WASH HANDS -REMOVE GOGGELES WATH HANDS -REMOVE HOOD WASH HAND OVERALLS & WATH HANDS -REMOVE MASK WASH HAND -REMOVE 2 NO GLOVE STY SPRAY BOOK + MOVE TO GREEN ZONE WASH BARE HANDS 0.05% CHECKINE

EH Tasks

Waste management





Infection control



Body removal assistance



Food safety ... HACCP





Training of national staff





Training challenges and opportunities

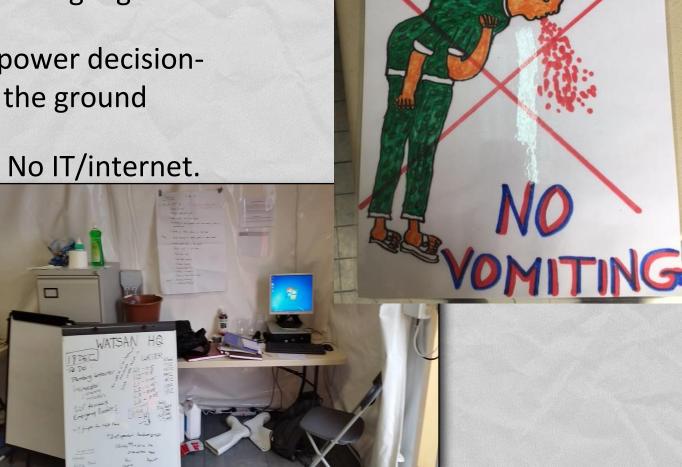
- 173 WASH/WatSan staff and 45 national nurses;
- 5 rotations (Team A, B, C,D and E) 24/7:
- AM 0700 1330
 PM 1300 1930
 Night 1900 -0730.
- **CoC** per shift: 1 x EHO, 1 Shift Supervisor (national), 1 x team leader per craft (hygienists, sprayers, dressers, timekeepers, waste management, cleaners, laundry, water).
- SOPs developed for each position. Reviewed regularly by reps from nursing, medical, EHOs and management.

Training challenges and opportunities

Varying language & educational levels. Needed clear language.

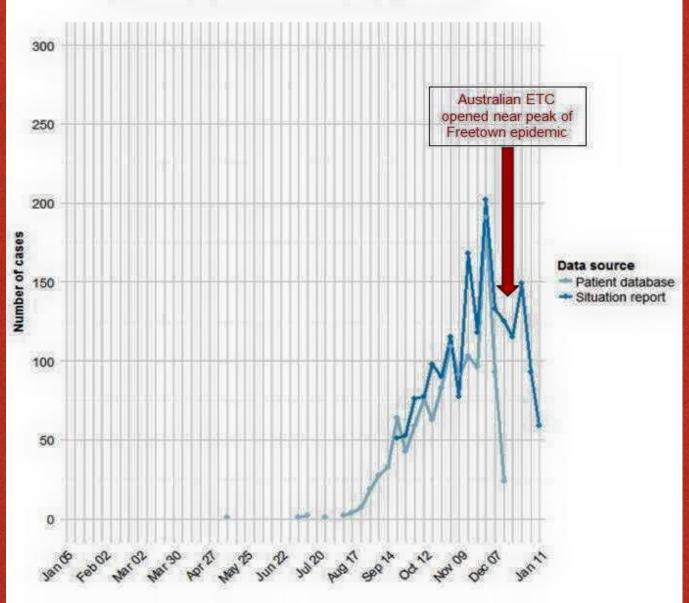
 Decentralised. Empower decisionmaking to staff on the ground

Limited resources. No IT/internet.

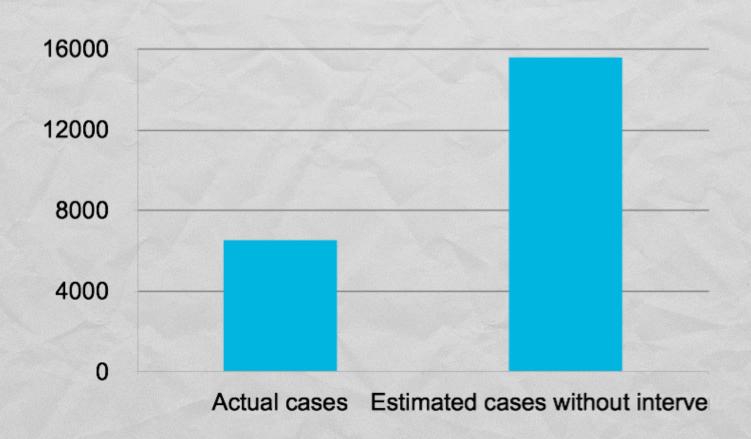


Is the mission a success?

Freetown Ebola Cases



Effectiveness of Ebola Treatment Units and Community Care Centers — Liberia, September 23 - October 31, 2014*





Summary 14 Dec 14–30 Apr 15

269 patients through the ETC

34 survivors49 ebola deaths

There were zero HCW infections

Personal reflections summary

- Get back to basics. Simple interventions. Adapt. Be flexible
- Be prepared to be personally and professionally challenged (and be rewarded).
- Believe in the science. Controlled fear keeps you focused.
- Work as a team.
- Sierra Leone nationals are the heroes

Any questions?

