

OpenWHO:

integrate massive online learning into health emergency response

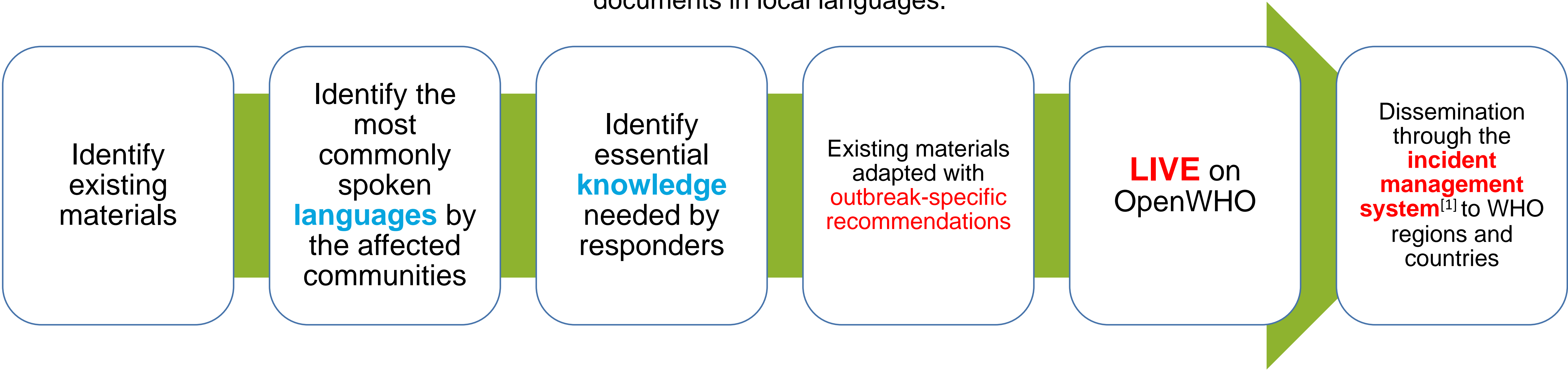


OpenWHO.org is the **World Health Organization's** first platform to integrate massive open online learning concepts into emergency response.

Successfully launched in June 2017, it now caters to more than **28 000** individual users, targeting **frontline health workers**.

Emergency knowledge resources

One of OpenWHO's experimental practices of training frontline workers for health emergency response prior to deployment. Essential technical guidance is compiled into an easy-to-use online course format, consisting of video, audio and critical source documents in local languages.



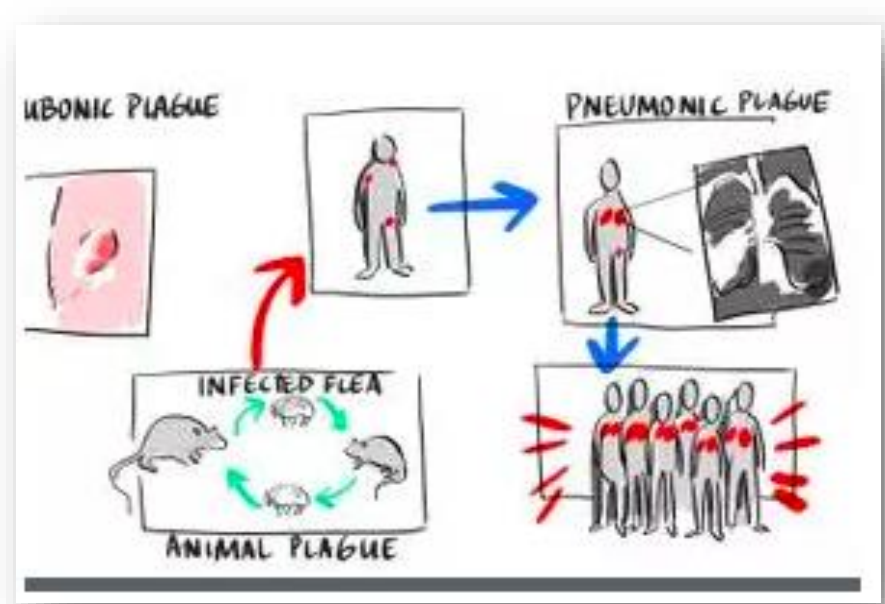
Key findings from three recent outbreaks

Ebola in Democratic Republic of the Congo (May 2017) ^[2]



Ebola materials repurposed from West Africa context to DRC. Translation of materials into **French & Lingala**.

Pneumonic plague in Madagascar (Oct 2017) ^[3]

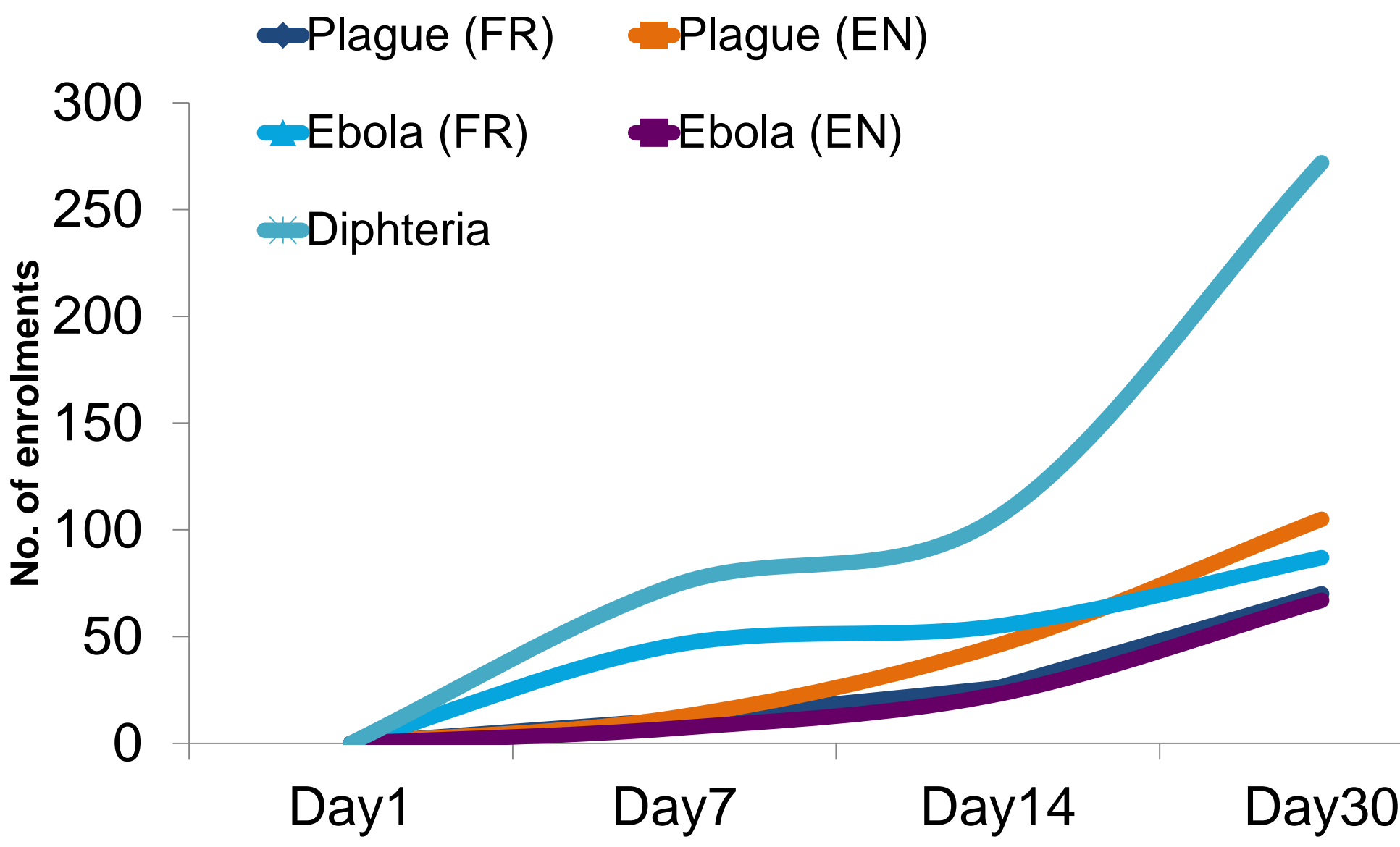


Knowledge resources adapted from existing plague materials in **French, English & Malagasy**

Diphtheria in the refugee setting of Cox's Bazar, Bangladesh (Dec 2017) ^[4]

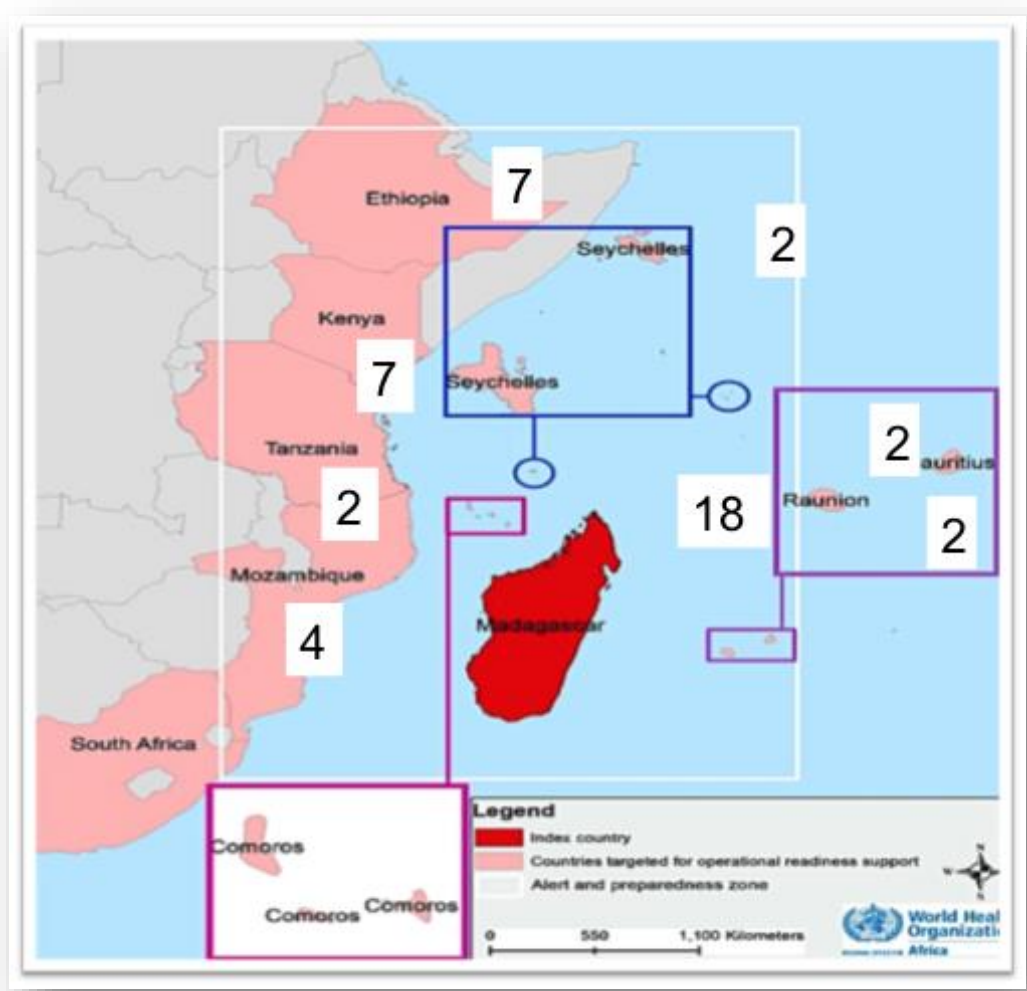


Training clinicians caring for patients during outbreaks in vulnerable settings such as **Cox's Bazar**.



Data shows rapid enrolment in the Ebola (FR) and Diphtheria courses in the first 7 days after publishing, while user numbers for the other three courses started to grow faster on Day 7, followed by a linear increase until Day 30 when the outbreak started to wind down.

The number of enrolments in the Diphtheria course slowed during the second week, but increased dramatically starting from Day 14. An increase in user traffic from Yemen could be observed, possibly due to simultaneous outbreaks in the country.



The user analysis also revealed that participants represented a diverse range of neighboring countries at risk of potential outbreaks.

Number of user enrolments from neighbouring countries and territories at risk of plague outbreaks.

Map source: WHO Regional Office for Africa

Challenges & future research

Page loading

Learning effectiveness still depends greatly on local internet speed. Loading a course landing page in Europe takes on average 3 seconds; in countries like Madagascar, this can take 24.9 seconds. Improving user performance with limited internet access is a priority.

Image source: Google analytics



Further research

- 1) Live streaming function
- 2) Automated translation
- 3) Produce emergency courses directly in the WHO regions and countries

References

[1] Emergency Response Framework. Second edition. p34. [2] Ebola: Knowledge resources for responders <https://openwho.org/courses/knowledge-resources-ebola> [3] Plague: Knowledge resources for responders <https://openwho.org/courses/knowledge-resources-plague> [4] Diphtheria: Clinical management of respiratory diphtheria <https://openwho.org/courses/diphtheria-clinical-management>

Country	Page Views	Avg. Page Load Time (sec) (compared to site average)
	172,681	8.52
	% of Total: 100.00% (172,681)	Avg for View: 8.52 (0.00%)
1. Switzerland	15,529	-60.27%
2. United States	14,193	-48.96%
3. Nigeria	13,444	34.50%
4. India	12,469	90.90%
5. Brazil	8,278	49.73%
6. Belgium	6,825	-45.76%
7. Germany	6,425	-53.39%
8. Netherlands	6,342	-100.00%
9. United Kingdom	5,554	-87.66%
10. Ethiopia	4,016	58.40%