

Additional File 1.

Summary table of the surveillance landscaping based on the optimal framework.

Each country in the landscaping was reviewed against the surveillance components outlined in each main stage; data collection, reporting, analysis, response, and operations. Each country component was qualitatively measured and marked as “lacking or weak”, “planned but not yet implemented or acceptable”, or “in place or strong”. Country names were removed for confidentiality.

Loop Stage	Component	Countries														
Data Collection	Case-based surveillance system	Yellow	Red	Red	Yellow	Yellow	Green	Green	Yellow	Green	Green	Yellow	Green	Yellow	Yellow	Red
	Community-based and active surveillance	Red	Red	Red	Yellow	Red	Green	Yellow	Yellow	Yellow	Green	Yellow	Green	Red	Yellow	Yellow
	Private Sector Inclusion	Yellow	Yellow	Red	Green	Yellow	Green	Green	Yellow	Yellow	Yellow	Red	Red	Yellow	Red	Red
	Case Confirmation (tested)	Green	Green	Yellow	Green	Yellow	Green	Green	Yellow	Yellow	Yellow	Green	Green	Green	Red	Green
	Case Classification	Red	Red	Yellow	Red	Yellow	Green	Green	Yellow	Yellow	Green	Yellow	Yellow	Green	Yellow	Red
	Geolocation	Red	Red	Red	Yellow	Red	Green	Yellow	Yellow	Green	Green	Green	Red	Green	Red	Green
	Vector and Intervention data	Green	Yellow	Red	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Reporting	Integrated Systems (data linked)	Red	Red	Yellow	Red	Red	Yellow	Yellow	Red	Red	Yellow	Yellow	Red	Green	Red	Yellow
	Data accessibility	Yellow	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Red	Yellow	Yellow	Red	Red
	Electronic entry and reporting	Yellow	Red	Red	Yellow	Yellow	Yellow	Yellow	Red	Green	Red	Green	Yellow	Yellow	Yellow	Red
	Timeliness	Red	Red	Red	Red	Red	Green	Green	Red	Red	Red	Yellow	Yellow	Green	Yellow	Yellow
	Data Validation	Green	Red	Yellow	Red	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Red	Yellow	Red	Red
Analysis	Descriptive Outputs (maps, graph...)	Green	Green	Yellow	Green	Green	Green	Green	Green	Green	Yellow	Yellow	Green	Yellow	Yellow	Red
	Operational stratification	Yellow	Yellow	Red	Red	Yellow	Yellow	Red	Yellow	Yellow	Yellow	Yellow	Yellow	Green	Yellow	Yellow
Response	Intervention/ACD targeting	Yellow	Red	Red	Yellow	Yellow	Green	Green	Yellow	Yellow	Yellow	Green	Yellow	Yellow	Yellow	Red
	Strategic and operational planning	Yellow	Red	Red	Yellow	Yellow	Yellow	Green	Yellow	Yellow	Yellow	Yellow	Green	Green	Yellow	Yellow
Operations	HR capacity	Green	Red	Red	Yellow	Yellow	Yellow	Green	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
	Guidelines, Strategy, SOP	Green	Yellow	Red	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Green	Green	Yellow

	Component lacking or weak
	Component planned but not yet implemented, or acceptable
	Component in place, or strong
	Unknown