

Sri Lanka NBW Roadmap for One Health (February 2023)

From 21 to 23 February 2023, the National Bridging Workshop (NBW) for Sri Lanka was held at Citrus Waskaduwa Hotel in Kalutara. The Workshop was hosted at the kind invitation of the Government of Sri Lanka, with organizational support from the World Health Organization (WHO), the Food and Agriculture Organization (FAO) and the World Organisation for Animal Health (WOAH). It was attended by 72 national participants from key national institutions for One Health with representatives from national, provincial, district and divisional levels. The workshop used an interactive methodology and a structured approach with user-friendly material, scenario-based exercises, videos and facilitation tools. The resulting roadmap consists of 16 key objectives and 45 activities that the One Health sectors have identified together to improve their collaboration at the human-animal-environment interface. The full report of the event is available at <https://extranet.who.int/sph/ihr-pvs-bridging-workshop>.

Action	Timeline	Difficulty (1-3 scale)	Impact (1-3 scale)	Responsibility	Process
COORDINATION, LEGAL AND FINANCING					
Objective 1: To enhance One Health governance at the central and provincial levels (47 votes)					
1.1. Establish One Health inter-ministerial committee preferably at President/Prime Ministerial Secretariat and develop a strategic plan	December 2023	++	+++	- DGHS, MoH - DG, DAPH	1) Appointing an ad-hoc task force to carry out the task. 2) Identify and designate members of the National One Health inter-ministerial committee. 3) Develop a TOR and MoU. 4) Sign MoU to formalize the establishment of the committee. 5) Organize a retreat workshop (4-5 day duration) with key representatives from relevant sectors to develop the strategic plan. 6) Hire a consultant to facilitate development of the strategic plan if necessary. 7) Seek approval of the strategic plan from the National One Health inter-ministerial committee and/or cabinet.
1.2. Establish One Health committees at the provincial level	December 2023	+	++	Provincial Chief Secretary, PDHS and PDAH	1) Develop a TOR and MoU for the provincial sectoral committee. 2) Appointment committee members. 3) Formalize the establishment of the Provincial One Health Committee from the National One Health Inter-Ministerial Committee and other appropriate agencies.
1.3. Submit project proposal by relevant stakeholders to the ministry of finance (National planning) and for external funding organizations to conduct 'One Health Activities'	March-June 2024	++	++	- DGHS, MoH DG, DAPH	1) Conduct a need assessment on One Health. 2) Develop a project proposal based on the national One Health strategy plan and findings of the need assessment. 3) Seek approval of the proposal from the National One Health Inter-Ministerial Committee. 4) Submit the proposal to the Ministry of Finance to source funding.
1.4. Establish National level 'One Health' sub-committees/Technical Committees for main	April 2024	+	+++	- DGHS, DDG PHS-1,	1) Develop TOR for the sub-committees (or call them as National Zoonosis, AMR, or Food Safety Technical Committee), and National TWG for Surveillance, Response, Risk Assessment, Communication, etc.).

technical areas (food safety, AMR, Zoonosis) and Technical Working Groups (TWGs) for Surveillance, Response, Risk Assessment, Communication, etc.				- ADG, Animal Health	2) Appointment of members of these technical committees and TWGs from all the relevant stakeholders.
Objective 2: To harmonize legislative and administrative procedures to facilitate One Health activities (37 votes)					
2.1. Identify and hire an independent external party to review and harmonize legislations, policies and administrative structures related to 'One Health'	December 2024	+++	+++	- DG, DAPH - DGHS, MoH	1) Identify the funding agency and mobilize funds. 2) Develop a TOR for a consultant. 3) Hire a consultancy firm. 4) Consultant to review, identify gaps and develop recommendations. 5) Consultative meeting to endorse the recommendations. 6) Obtain approval from the National OH Inter-Ministerial Committee and the cabinet. 7) Enact or adopt the legal framework.
Objective 3: To enhance knowledge and awareness of One Health strategies amongst all stakeholders and the public (4 votes)					
3.1. Incorporate One Health in curricula of veterinary and medical schools, and paraprofessionals	December 2024			- Medical/Veterinari an councils - DGHS, MoH - DG Animal Health	1) Appointment of a professional task force from respective sectors. 2) Preparation of modules. 3) Validation of One Health modules. 4) Seek approval and incorporate the module into respective curricula.
SURVEILLANCE AND LABORATORY					
Objective 4: Institutionalize and enhance a joint surveillance system for priority zoonotic diseases and food safety (38 votes)					
4.1. Set up a national-level joint sub-committee or Technical Working Group (TWG) for surveillance with relevant stakeholders and specific responsibilities under the national One Health policy and legal framework	April-June 2024	+	+++	National One Health Committee	1) Organize a joint consultative meeting to identify membership and TOR. 2) Identify the members from different stakeholders such as human health, animal health, food safety, environment, fisheries and wildlife. 3) Identify specific roles and responsibilities. 4) Develop TOR. 5) Issue an executive order for the establishment of the TWG/sub-committee. 6) Organize an orientation workshop for all the Members.
4.2. Develop a joint coordinated surveillance strategic plan for zoonoses	2024	+	+++	National-level joint sub-committee or Technical Working Group on surveillance	1) Organize a series of meetings with the relevant sectors at the national level to draft the surveillance strategic plan. 2) Circulate the drafted strategic plan to the relevant sectors. 3) Organize a validation workshop for official endorsement. 4) If needed, hire a consultant. 5) Identify key participating and reference laboratories for joint surveillance purposes.
4.3. Identify One Health surveillance focal points from each sector at each administrative level	June 2023	++	+++	DGs of respective departments (Department of Animal Health and Epidemiology Unit of MoH)	1) Identify focal points from each sector at national, district, and divisional levels with consensus from all relevant stakeholders. 2) Develop TOR and delegate roles and responsibilities of each focal point identified. 3) Issue an executive order formalizing the appointment of surveillance focal points (TWGs). 4) Create conducive working environment for focal points to work by providing budget and office space, etc.

4.4. Conduct a series of joint training for surveillance and laboratory techniques for priority zoonoses and food safety	2024-2025	++	+++	Focal points of both sectors	<ol style="list-style-type: none"> 1) Organize a technical meeting with both sectors to identify training needs, materials, and resources for official endorsement and budget. 2) Carry out training programs for national and regional levels (30 participants per training from all sectors): Disease surveillance – 5 trainings; advanced molecular techniques – 3 trainings; Bioinformatics – 3 trainings; Food safety; Handling of infectious organisms.
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Objective 5: Enhance laboratory coordination and capacity for diagnosis of priority zoonotic diseases and food safety (25 votes)

5.1. Develop MOU for laboratory data and resource sharing	2024	++	+++	National One Health Committee	<ol style="list-style-type: none"> 1) Conduct resource mapping in both sectors. 2) Draft MOU involving key sectors including mode and level of data sharing, data security, and publications rights etc. 3) Circulate to relevant ministries for concurrence. 4) Finalize the MOU and sign it by all sectors. 5) Disseminate the contents of the MOU between the stakeholders for implementation.
5.2. Establish a laboratory network for priority zoonotic diseases between human health and animal health laboratories	2025	++	+++	MoH and DAPH	<ol style="list-style-type: none"> 1) Identify the participating and reference laboratories and the scope of the laboratory network. 2) Develop the scope of testing and TOR through a series of workshops. 3) Identify the focal points of each laboratory of key sectors including university labs and private labs. 4) Organize a series of meetings to operationalize the network activities. 5) Upgrade biosafety levels and identify a laboratory and upgrade for category 4 pathogens.
5.3. Develop joint SOPs and laboratory testing protocols for priority zoonotic diseases	2025	+	++	DDG -Laboratory, MoH Director, Veterinary Research Institute, DAPH Focal laboratories of MoH and DAPH	<ol style="list-style-type: none"> 1) Prioritize zoonotic diseases through workshops and to be updated as necessary. 2) Develop joint or harmonized protocols and SOPs for screening and confirmatory tests. 3) Harmonize quality assurance programs of the participating laboratories.
5.4. Develop harmonized and standard biosafety and biosecurity guidelines and protocols for safe handling and preventing leakage of dangerous pathogens	2026	+++	+++	Biosafety and biosecurity advisory committee	<ol style="list-style-type: none"> 1) Identify and appoint TWG members for developing biosafety and biosecurity guidelines, protocol and SOPs (including sharing of reference isolates between sectors). 2) Organize a series of workshops and meetings to develop the harmonized and standard guideline, protocol and SOPs 3) Conduct orientation and training for laboratory staff capacity building. 4) Conduct audits to assess biosafety and biosecurity in laboratories.

RESPONSE AND FIELD INVESTIGATION

Objective 6: Identify teams/SOPs required for field investigation and response on priority zoonoses (19 votes)

6.1. Establish joint response teams at national and provincial levels	December 2023	+++	+++	- DG, DAPH; - DGHS, MoH; - DG, wildlife; - DG, Zoo; PDHS, PDAH; - Director Wildlife	<ol style="list-style-type: none"> 1) Develop TOR and MoU of the joint response teams. 2) Identify and appoint response team members. 3) Issue the executive order. 4) Sign MOU. 5) Provide orientation on their TOR, roles and responsibilities.
6.2. Develop a joint response plan for general and priority zoonotic diseases	May 2024	+	+++	- DG, DAPH; - DGHS, MoH; - DG, wildlife	<ol style="list-style-type: none"> 1) Conduct stakeholder meetings to identify prioritized zoonotic diseases. 2) Develop joint or coordinated outbreak investigation and response plan. 3) Conduct consultative meeting to validate and endorse the response plan.

				- DG, Zoo; - PDHS, PDAH; - Director, Wildlife	4) Seek approval of the plan from the National OH inter-ministerial Committee. 5) Conduct resource assessment and regular resource mapping.
6.3. Develop SOPs and guidelines for zoonotic diseases for prioritized joint response field investigation	May 2024	+	+++	- DG, DAPH; - DGHS, MoH; - DG, wildlife	1) Conduct stakeholder meetings to develop SOPs and guidelines. 2) Conduct stakeholder meetings to validate SOPs and guidelines. 3) Publish and disseminate SOPs with guidelines and preparation of a circular accordingly.
Objective 7: To develop capacity for joint response and field investigation (3 votes)					
7.1. Conduct joint training on outbreak investigation and response plan for the response team (ToT at the national level)	May 2025	++	++	- DG, DAPH; - DGHS, MoH; - DG, wildlife	1) Hire consultant if necessary. 2) Develop training program 3) Conduct a ToT training at the national level. 4) Conduct training for the provincial response teams. 5) Sustain the conduct of the training regularly or mainstream FETP.
7.2. Conduct simulation exercises to test the joint response plan and joint response team	December 2025	++	++	- DG, DAPH; - DGHS, MoH; - DG, wildlife;	1) Develop a plan for simulation exercises. 2) Develop a methodology for regular simulation programs. 3) Conduct a regular join simulation program at each level. 4) Conduct review meetings for monitoring and evaluation of the simulation program.
7.3. Expand current field epidemiology training program (FETP) to the veterinary sector	December 2025	+	++	Joint response team/DAPH epidemiology unit, MoH	1) Evaluation of existing FETP program and stakeholders. 2) Identify areas to be added/include for FETP for the veterinary sector. 3) Conduct an upgraded training program to cover all sectors.
Objective 8: Develop a mechanism for information sharing on response and field investigation (19 votes)					
8.1. Establish a network among key stakeholders for information sharing during a disease outbreak and progress of response activities for prioritized zoonotic diseases	December 2023	++	++	- DG, DAPH; - DGHS, MoH; - DG, wildlife; - DG, Zoo; - PDAH; - PDHS; - RDHS, VIO;	1) Assess the existing disease outbreak and response notification reporting system. 2) Identify or develop platform (web-based) for disease outbreak and response information sharing including risk communication for prioritized zoonoses events. 3) Conduct regular monitoring and evaluation of the effectiveness of the response plan and information sharing system.
8.2. Conduct a joint intra-action or an after-action review after every major epidemic or pandemic event	January 2025	++	+++	Joint investigation team (DGHS, MoH, PHVS, MoH, VIO, Veterinary Surgeon, wildlife)	1) Use the Tripartite intra-action or after-action review framework or develop your framework. 2) Conduct intra-action or after-action review. 3) Present the findings. 4) Develop a roadmap or plan to address the gaps and weaknesses identified.
RISK ASSESSMENT AND RISK COMMUNICATION					
Objective 9: To setup a high-level mechanism for the provision of direction and facilitation for Risk assessment and Risk communication activities at the national and subnational levels (24 votes)					
9.1. Appoint a national and provincial risk assessment and risk communication subcommittee	September 2023	++	+++	National steering committee on One Health (NSCOH)	1) Identify relevant experts at national and sub-national levels. 2) Get the name list approved by the NSCOH (National Steering Committee of One Health) / National One Health Inter-Ministerial Committee (IMCOH) whichever is more appropriate to Sri Lanka.

					3) Draft TORs. 4) Issue appointment letters.
Objective 10: To set up an efficient and practical joint system to share data for Risk assessment and Risk communication activities at national and sub-national levels. (7 votes)					
10.1. Develop a data-sharing elements and mechanisms for Joint Risk Assessment	August 2023	+++	+++	National steering committee on One Health (NSCOH)	1) Identify experts from respective sectors. 2) Organize a consultative workshop to develop data-sharing elements and mechanisms for conducting joint risk assessment. 3) Seek approval from NSCOH. 4) Issue a notification for operationalizing the data sharing for RA after signed by DGs and Heads of Institutes. 5) Conduct quarterly monitoring and evaluation and review.
10.3. Appoint a media briefing focal persons from the key sectors for risk communication	January 2023	+	+++	National Risk Assessment and Risk Communication Subcommittee	1) Identify RA and RC communication experts from each sector. 2) Issue an appointment letter. 3) Provide orientation and training on joint RA and RC.
Objective 11: To develop a risk communication plan, IEC materials and key messages based on the existing strategic plan (5 votes)					
11.1. Develop a joint risk communication plan for One Health based on the existing risk communication strategic plan (of respective parties)	May 2023	+++	+++	National Risk Assessment and Risk Communication Subcommittee & Health promotion units of MoH and DAPH	1) Review and study, existing strategic plans. 2) Identify synergies and gaps. 3) Develop a joint risk communication plan. 4) Seek approval of the plan from NSCOH and appropriate agencies. 5) Provide orientation and training on the risk communication plan.
11.2. Develop advocacy tool kit for national and subnational key players and key messages, and IEC material for the general public on One Health	July 2023	++	+++	National and provincial Risk Assessment and Risk Communication Subcommittee	1) Identify and appoint an expert committee consisting of risk communication and content specialists from the respective parties. 2) Identify communication platforms (radio and video spots, posters, etc.). 3) Produce the IEC materials either in-house or by contracting to a private firm. 4) Conduct advocacy, education and awareness campaigns.
Objective 12: To enhance competency for RA/RC officials at national and subnational levels (10 votes)					
12.1. Conduct joint risk assessment training for RA/RC officials at national and sub-national levels using a joint risk assessment toolkit / risk communication toolkit developed by the Tripartite	February 2024	++	+++	National and provincial Risk Assessment and Risk Communication Subcommittee and Health promotion units of MoH and DAPH	1) Identify training needs. 2) Identify fund resources. 3) Develop a training curriculum for RA. 4) Define training methods and develop training material. 5) Identify resources persons. 6) Conduct training at national and sub-national levels. 7) Determine training frequency to sustain the program. 8) Conduct periodical evaluation of the training program.

12.2. Conduct joint risk communication training for national and sub-national levels	April 2024	++	+++	National and provincial Risk Assessment and Risk Communication Subcommittee	<ol style="list-style-type: none"> 1) Identify training needs. 2) Identify funding resources. 3) Develop a training curriculum for RC. 4) Define training methods and develop training materials. 5) Identify resources persons. 6) Conduct trainings at national and sub-national levels. 7) Determine training frequency to sustain the program. 8) Conduct a periodical evaluation of the training program.
AMR					
Objective 13: Strengthen AMR governance and coordination mechanisms (31 votes)					
13.1. Review the existing National AMR Committee membership and reconstitute as appropriate (reporting to One Health Steering Committee)	October 2023	++	++	<ul style="list-style-type: none"> - DDG of Laboratory Services (LS) of MoH; - ADG of Animal Health; - DG of Environment - DG of Wildlife; - DG Fisheries 	<ol style="list-style-type: none"> 1) Conduct advocacy by current AMR lead focal officers of MoH and DPAH to DGs and DDGs to get concurrence/endorsement for review of the membership. 2) Form the National AMR Technical Committee co-chaired by HS of LS and DG of DAPH. 3) Conduct consultative meetings and review the existing TOR and membership and revise as appropriate either under Inter-ministerial Committee for One Health or National Steering Committee on One Health or its own National AMR Steering Committee. 4) Get the approval of the new Committee from the cabinet.
13.2. Establish the national AMR joint framework and governance structure	December 2023	+++	+++	National AMR Technical Committee (DDG -LS)	<ol style="list-style-type: none"> 1) Conduct a 2-day workshop with the participation of experts from the relevant fields/stakeholders to formulate the framework. 2) Invite comments or observations from the relevant stakeholders on the draft. 3) The National AMR-TC to review comments and revise as appropriate. 4) Submit for approval from the appropriate committee or cabinet. 5) Establish the governance structure.
13.3. Revise the National Strategic Plan (NSP) for combating AMR and formulate a joint National Action Plan	June 2024	+++	+++	National AMR Technical Committee	<ol style="list-style-type: none"> 1) Conduct consultative meetings with relevant stakeholders and revise the existing NSP-AMR. 2) Draft a new NSP-AMR and invite comments from the stakeholders. 3) The National AMR-TC to revise and finalize the plan based on the comments. 4) Conduct a series of consultative meetings to formulate a joint NAP.
13.3 Develop national antimicrobial stewardship and IPC guidelines and protocols	September 2024	+++	+++	National AMR Technical Committee	<ol style="list-style-type: none"> 1) Identify the experts or consultant. 2) Organize a workshop to develop the anti-microbial stewardship guideline and protocols. 3) Conduct consultative meetings with relevant stakeholders to get feedback. 4) Seek approval from the relevant bodies. 5) Issue notification for implementing the guidance and protocol. 6) Conduct orientation and training on stewardship.
13.4. Develop and implement an AMR Alert and Response Protocol	June 2024	+++	++	National AMR Technical Committee	<ol style="list-style-type: none"> 1) Appoint a working group to develop AMR Alert and Response Protocol. 2) Hire a consultant to facilitate its development. 3) Conduct 5 days consultative workshop with relevant stakeholders to develop AMR alert and response protocol. 4) Develop a web-based system for the protocol. 5) Implement and review and revise the protocol.

13.5. Develop harmonized guidelines and SOPs for ASTs for both sectors	December 2023	++	+++	- National Technical Committee- - Working Group AMR AST-SOP	1) Appoint a working group on AST-SOP development. 2) Develop, review and finalize the SOPs and guidelines. 3) Share the developed AST-SOP with relevant authorities and stakeholders. 4) Provide orientation and training on the new harmonized guideline and SOPs. 5) Implement the guideline and SOPs.
Objective 14: Enhance the human resource capacity of combat AMR (1 vote)					
14.1. Conduct collaborative or joint workshop on AMR/AMC/AMU data analysis for the national level key professionals (25 professionals)	June 2024	++	++	TWG appointed in the National AMR Technical Committee	1) Identify resource persons. 2) Develop training programs. 3) Use existing data and conduct analysis. 4) Disseminate the findings of existing data. 5) Implement the data analysis. 6) Conduct regular data analysis, compiling and dissemination.
14.2. Incorporate the One Health concept and AMR into the relevant medical, para-medical, and veterinary undergraduate/ post graduate curricula, other relevant staff	December 2024	+	+++	National AMR Technical Committee	1) Identify relevant authorities responsible/stakeholders including academia. 2) Conduct a workshop to identify gaps and formulate recommendations. 3) Develop AMR and One Health modules and incorporate them into the curricula.
Objective 15: Promote research and development to combat AMR (13 votes)					
15.1. Conduct AMR research methodology trainings for researchers from the relevant sectors	December 2023	+++	+++	Technical Working Committee and experts	1) Identify experts or resource persons. 2) Develop an AMR research methodology training program. 3) Identify the source of funding to conduct workshop. 4) Conduct trainings 5) Evaluate the training workshop.
15.2. Conduct a joint national baseline survey on AMR for a priority indicator organism	December 2024	+++	+++	AMR TWG and working group experts (researchers)	1) Identify the working group of experts to conduct the national baseline survey (3 months). 2) Identify funding sources and seek funding. 3) Develop the survey design and protocol. 4) Conduct the study. 5) Publish the results.
Objective 16: Increase Awareness of AMR (5 votes)					
16.1. Conduct joint public AMR awareness campaigns at regular intervals (During AMR week and every 6 monthly)	June 2024	++	+++	A working group appointed by the National AMR Technical Committee	1) Appoint a working group to carry out the task. 2) Design a public AMR awareness campaign for print media, radio and TV spots. 3) Identify resources required and source of funding. 4) Develop materials. 5) Conduct the AMR awareness campaigns.
16.2. Conduct joint AMR awareness at the provincial level for professionals	November 2024	+++	++	TWG appointed by the National AMR Technical Committee	1) The National AMR technical committee appoints a TWG. 2) The TWG designs an awareness campaign for professionals. 3) Identify requirements/resources needed including the source of funding. 4) Identify provincial-level focal points for collaboration. 5) Conduct provincial-level campaigns.
16.3 Publish an AMR bulletin/Newsletter every 6 months	Starting from March 2024	+	+++	AMR TW Committee	1) Formulate a working group with appropriate composition. 2) Design the AMR bulletin structure. 3) Collect articles. 4) Editing and finalizing the bulletin.

16.4. Develop a multisectoral AMR communication plan	March 2024	+	+++	National AMR Technical Committee	5) Publish the bulletin. 1) Appoint a working expert group with defined TOR to develop a multisectoral AMR communication plan. 2) Develop a joint multisectoral AMR communication plan. 3) Working groups conduct consultative meetings with the relevant stakeholders to receive feedback. 4) Review, finalize and share the communication plan with the relevant stakeholders. 5) Get it approved by the relevant committee to implement it.
16.5. Develop SOPs for information sharing on AMR between stakeholders	December 2023	+	+++	National AMR Technical Committee and working group	1) Appoint a working group with a defined TOR to carry out the task. 2) Conduct series of meetings with the technical working group to develop a SOP for sharing information. 3) Get it approved by the appropriate committee or agency.

Difficulty of implementation: Low +, Moderate ++, Very difficult +++

Impact: Low impact +, Moderate impact ++, High impact +++