



National Bridging Workshop Roadmap of Thailand For improved One Health collaboration

Develop during the NBW Thailand (20-22 July 2022 - Bangkok, Thailand)

Action	Timeline	Difficulty (1-3 scale)	Impact (1-3 scale)	Responsibility	Process
I. ONE HEALTH GOVERNANCE AND COORDINATION					
Objective 1: To enhance the One Health governance system at all administrative levels					
1.1. Review and revise the One Health governance system at central and subnational levels (regional/provincial and district levels)	2022-2023	++	+++	CUOH (Coordination Unit of One Health) of DDC	<ul style="list-style-type: none"> a) Organize a multi-sectoral consultative workshop of One Health sub-committee to review and revise the governance system at all administrative levels (national, regional, provincial and district levels). b) Identify all the stakeholders related to One Health including their roles and responsibilities c) Define a functional, all-inclusive One Health governance system to formally institutionalize it. d) Organize the stakeholders meeting again to endorse the final governance framework and seek confirmation of the commitment on the revised governance system e) Seek endorsement of the revised governance system from Cabinet/Permanent Secretaries f) Sign MoU by all the One Health sectors (DDC, FDA of MoPH, DLD of MoCA, Wildlife, environment, etc) g) Print, notify and circulate the revised governance system to all stakeholders
1.2. Conduct functional assessment of One Health again based on the experiences learnt from Pandemic and taking into consideration other tools such as MCM-OT (Multi-sectoral One Health Coordination Mechanism Operational Tool of Tripartite) and USAID One Health -App Workshop Resources.	2022 (Phase 1 at central level for 5 months) 2023 (Phase 2 at local level for 12 months)	+	+++	CUOH (Coordination Unit of One Health) of DDC	<ul style="list-style-type: none"> a) Review the existing tools to be used like newly developed MCM-OT. For previous One Health functional assessment, a USAID One Health App resource tool was used b) Identify the resource persons and participants at central and subnational levels c) Pilot test the tools and validate it d) Organize workshop to conduct the assessment of One Health coordination and collaboration including capacity assessment considering learning from the COVID-19 pandemics and potential future pandemic prevention perspective as well e) Compile the assessment reports and circulate with all the stakeholders f) Consolidate the gaps and incorporate into 5 year strategic plan
1.3. Develop One Health Strategic framework and action plan	2022-2023	++	+++	CUOH	<ul style="list-style-type: none"> a) Identify either national or international consultant or lead expert who can facilitate and develop the framework and action plans (November/Dec 2022) b) Organize a 3 to 5-day workshop to develop the strategic framework and action plan (Dec) c) Circulate the draft framework and action plan for review and endorsement by all stakeholders (March/April 2023) d) Submit the plan for review and endorsement by Emerging Infectious Diseases (EID) or Communicable Diseases Committee (CD) (May) e) Submit the draft for approval by the One Health Inter-Ministerial Steering committee (June 2023) and/or Cabinet f) Print and circulate the plan to all the stakeholders for the implementation after securing budget
1.4. Establish One Health Coordination Unit each in DLD (Animal Health) and Department of Natural Parks,	2022-2023	+++	+++	CUOH, DLD and Department of National Parks, Wildlife and	<ul style="list-style-type: none"> a) Develop the functional mandate and ToR of the sector One Health coordination unit with staffing b) Submit the proposal to the Director General and MoCA and MNRE c) Establish the One Health coordination unit through executive order or notification

Wildlife and Plant Conservation of Ministry of Natural Resources and Environment (Environmental Health) similar to the one in Department of Disease Control to coordinate One Health activities within a sector				Plant Conservation of MNRE	d) Provide orientation and training to the staff
1.5. Establish a Joint Network of National Experts on Priority Zoonotic Diseases consisting of members from DDC, DLD, Department of Natural Parks, Wildlife and Plant Conservations (DNP), Department of Fisheries, Academia and Department of Medical Sciences (DMSC)	2023	+	+		<ul style="list-style-type: none"> a) Review existing network and modify or adapt them to establish this joint network b) Organize workshop or meeting to develop mandate and/or TOR for this network c) Identify and designate the members d) Issue an executive order e) Organize workshop to provide orientation and training to members f) Continue to organize meetings and workshops to carry out their assigned task as per the TOR g) Conduct regular monitoring and evaluation of the functioning of the network
II. SURVEILLANCE					
Objective 2: Enhance integrated and harmonized surveillance framework for zoonotic disease of pandemic potential and priority foodborne diseases					
2.1 Develop an integrated and harmonized surveillance framework/protocol for zoonotic diseases of pandemic potential (e.g. corona viruses) at human-animal-environment interface taking the One Health approach	2022 (Dec)	++	+++	CUOH (DDC), DLD, DNP, DMSC, Academic, Private Labs	<ul style="list-style-type: none"> a) Identify key experts and form Technical Working Group (including international experts) to develop the surveillance framework b) Organize a consultative meetings/workshop to develop an integrated and harmonized framework for surveillance c) Pilot test it and conduct desktop simulation d) Refine it further e) Seek endorsement from the highest One Health decision making body f) Print and disseminate for implementation g) Conduct monitoring and evaluation of it regularly
2.2 Develop integrated surveillance framework/protocol for priority foodborne diseases (Salmonella spp, Campylobacter spp, E.coli, etc)	2023 (Dec)	+++	+++	DDC, FDA, DLD, DOF	<ul style="list-style-type: none"> a) Identify experts and establish Technical Working Group (including international experts) b) Organize consultative meetings/workshop to develop an integrated surveillance/protocol for priority foodborne diseases c) Pilot test including conduct of desktop simulation d) Refine it further e) Seek endorsement from the highest policy decision making body of One Health f) Print it and disseminate for implementation g) Conduct monitoring and evaluation of it regularly to assess its impact and refinement further
Objective 3: Strengthen operational capacities for sharing of information between human, animal, food and environment sectors					
3.1 Conduct review of the software system of 'Rabinet Platform' and improve further for easy accessibility and inclusive and automatic	2023 (Dec)	++	++	DDC, DLD, DNP, DMSc	<ul style="list-style-type: none"> a) Identify and establish Technical Working Group of experts b) Organize workshop for review and enhance of the system to improve accessibility and automatic and inclusive Alert information sharing system including addition of additional variables and to the database c) Obtain agreement from all parties involved

information sharing between key One Health sectors at all administrative levels					d) Conduct monitoring and evaluation and functional assessment of it regularly to make it perfect working system.
3.2 Develop an integrated AMR Alert and Response System for effective and timely data sharing and initiate response management	2024	+++	+++	DMSC, DDC, DLD, DNP, DOF, FDA, Department of Pollution Control of MNRE, Academia	a) Establish a Technical Working Group of experts including hiring of International Experts b) Organize a workshop (3-5 days) to develop the Protocol and system c) Develop the ICT platform for the alert and response system d) Pilot test the system and refine it further e) Obtain agreement from all the parties involved f) Conduct training on the use of the protocol for all the stakeholders involved g) Operationalize it h) Conduct regular monitoring and evaluation of performance of the system
III. EDUCATION AND TRAINING					
Objective 4: To improve understanding of One Health approach and its implementation to key decision makers					
4.1 Conduct advocacy and education program on One Health approach for the executive decision makers at national and subnational levels	2023-2026	++	+++	Chulalongkorn University (Core course), Division of International Livestock Cooperation, Division of Wildlife Conservation, NIDA (soft skills)	a) Identify core team for development of the advocacy and education program b) Develop core program for advocacy and education program such on fundamentals of One Health principles and approach, application and its implementation, field visits and trip where One Health activities are implemented c) Identify target group – Directors and Director Generals (government and non-governmental agencies) at central level; heads of the organizations at provincial levels d) Conduct the course – 20 participants/training batch including Pre- and Post-test e) Conduct monitoring and evaluation using appropriate key performance indicators and KAP surveys
Objective 5: Enhance awareness on the importance and implementation of One Health to all the relevant stakeholders at all levels					
5.1 Develop One Health orientation and introduction course program for new staff of all One Health sectors (public health, DLD, DNP including private sectors) – to be included routinely from 2023	2023 (August)	+	+++	DLD (Division of International Livestock Cooperation), Office of International Cooperation (DDC), Department of Disease Control (DDC) and Division of Wildlife Conservation of DNP	a) Identify the core team to develop the program b) Organize workshop to develop the course for orientation and introductory training on One Health approach (online as well as face-to-face teaching) c) Distribute the course program and materials to all the stakeholder d) Conduct the orientation and training to new staff on annual basis
5.2 Conduct training for trainers (ToT) on One Health approach at provincial level	2023 (May)	+++	+++	DLD, DNP, SEAOHUN (Instructors), THAIOHUN (instructors), Academic Sectors (medicine, veterinary medicine, pharmacy, medical technologies)	a) Establish a program committee to select suitable One Health program from the existing program b) Identify target groups (officers at regional and provincial and district levels) c) Conduct the training of trainers' course (30 participants/batch) in 10 provinces and repeat every 6 months d) Trainers to develop the training plan to train others at regional and provincial levels e) Conduct monitoring and evaluation and impact assessment
Objective 6: Strengthen One Health knowledge and competency for solving complex issues related to zoonotic diseases prevention and management					

6.1 Develop simulation based scenario training program for prevention and control to improve knowledge and competency for solving complex issues related to zoonotic diseases using rabies as a case study (PEPREP of WHO)	2023	++	+++	Division of International Livestock Cooperation of DLD, Office of International Cooperation of DDC, DNP, university network (SEAOHUN/THAIOHUN)	<ul style="list-style-type: none"> a) Identify and establish technical working group experts to develop the simulation-based training module on enhancing One Health knowledge and competency for problem solving skills b) Identify target audience c) Conduct the training workshop – simulation based competency learning including use of role play d) Review and refine the program further and sustain the program
IV. COMMUNICATION					
Objective 7: To improve effectiveness of One Health communication at local levels					
7.1 Develop and sign Memorandum of Understanding (MOU) between sectors to establish volunteers to scale up One Health communication to engage communities at local levels	2022 (September)	++	+++	DDC, DLD (BDVS/Livestock Extension), Protected areas of Regional offices, Wildlife Extension Offices	<ul style="list-style-type: none"> a) Identify technical and policy level experts for developing objectives and program for engagement of volunteers at field levels (village, private sectors, etc) b) Organize workshop to develop program for engagement of volunteers and MOU c) Obtain consensus on the program and MOU from all the key sectors d) Obtain approval for the program and MOU from the appropriate One Health policy decision making body e) Sign the MOU f) Disseminate MOU g) Rollout the program by establishing volunteers
7.2 Develop training curriculum for harmonized and coordinated risk communication, surveillance and response to zoonotic diseases for volunteers	2022 (December)	++	+++	DDC, DLD (BDVS/Livestock Extension), Protected areas of Regional offices, Wildlife Extension Offices	<ul style="list-style-type: none"> a) Identify the technical experts and establish working group b) Organize the workshop to develop curriculum c) Validate the curriculum by independent experts d) Pilot test the curriculum e) Organize consultative workshop to review the outcomes of pilot testing, refine and finalize the curriculum
7.3 Conduct a series of joint ToT at regional level (12 regions of Public Health; 9 regions of DLD; 16 regions of DNP) followed by series of training for village volunteers at provincial and priority selected district and sub-district levels on harmonized and coordinated risk communication, surveillance and response of zoonotic diseases	2023-2025	+++	+++	DDC, DLD (BDVS/Livestock Extension), Protected areas of Regional offices, Wildlife Extension Offices	<ul style="list-style-type: none"> a) Conduct joint ToT for the professionals working in the regional and provincial (5 trainings for 30 participants each) b) Conduct trainings for village volunteers at district and subdistrict levels (at least 3 village health volunteers, 1 animal health volunteers and 1 HPH and 1 municipality staff) c) Compile the training reports and apprise the One Health policy decision making bodies of regional, provincial and central levels
7.4 Perform monitoring and evaluation of trained One Health volunteers for effectiveness of surveillance conducted	2023	+	++	CUOH, Public Health and DLD regional offices, head of volunteers	<ul style="list-style-type: none"> a) Review the existing disease surveillance reporting form of One Health volunteers (HQs of PH and DLD) b) Refine and agree on the final reporting form (HQs of PH and DLD) c) Use the information in the reporting form to evaluate their performance regularly for: <ul style="list-style-type: none"> - Consistency of conducting surveillance and reporting by the volunteers - Pre- and post-test to test the knowledge of volunteers - Random survey to assess the adequacy of knowledge of the village volunteers

Objective 8: To enhance risk communication under One Health approach					
8.1 Establish a National Joint Technical Committee on Risk Communication for priority zoonotic diseases	2022 (September)	++	+++	DLD, Department of Wildlife of DLD, DDC, DNP	<ul style="list-style-type: none"> a) Organize a meeting to develop MoU and define roles and responsibilities and conducting Joint Risk Communication, and identify experts from the relevant sectors b) Organize a meeting to sign the MoU c) Sign the MoU d) Circulate the MoU e) Convene the meeting of Joint Technical Committee on Risk Communication and provide orientation to their roles and responsibilities
8.2 Establish a Joint Technical Committee on Risk Communication for priority zoonotic diseases at subnational level (regional, provincial, district levels)	2023 (February)	++	+++	BDCVS and DLED, PHO, Governor Office, PLO, PEO, PARO (DNP), POONRE, PAO	<ul style="list-style-type: none"> a) Organize a meeting to develop MoU and define roles and responsibilities (including training of One Health village volunteers) and conducting Joint Risk Communication, and identify experts from the relevant sectors b) Organize a meeting to sign the MoU c) Sign the MoU d) Circulate the MoU e) Convene the meeting of Joint Technical Committee on Risk Communication and provide orientation to their roles and responsibilities
8.3 Establish a Technical Working Group (comprising focal officers from relevant One Health sectors) to detect and respond to fake news about One Health on social media	2023	+++	+++	DDC, DVS of DLD, DNP	<ul style="list-style-type: none"> a) Identify and designate the team members b) Develop TOR including procedures to functions of the TWG c) Conduct training for the members of the TWG d) Monitor their performance of TWG
8.4 Develop official One Health social media platform for risk communication in multiple language	2023	+++	+++	DDC, BDCVS of DLD, Department of Wildlife	<ul style="list-style-type: none"> a) Develop a Facebook page and Line Official account for broadcasting information, education, communication materials on One Health in multiple language. One Health volunteers can also use this platform for reporting suspected case of zoonotic diseases and ask questions about One Health and also fake news management b) Designate officials to administer and moderate these social media platform c) Develop a proper One Health website platform for risk communication once these social media platforms mature and work well d) Monitor the social media utility by measuring the Hitlist of people visiting and using the platforms
V. LEGISLATION					
Objective 9: To harmonize the existing legislations for facilitating implementation of One Health activities					
9.1 Develop guideline/protocol for drafting, reviewing, harmonizing and amendment of legislations that have cross-sectoral One Health implication					<ul style="list-style-type: none"> a) Identify experts (lawyers, professionals from human health, animal health, food safety, wildlife and environmental sector) b) Organize retreat workshop to develop the protocol c) Organize consultative workshop to review and endorse the guideline or protocol d) Seek approval of the guideline or protocol from the appropriate One Health policy decision making body e) Circulate and operationalize the implementation of the guideline
9.2 Identify and review laws and regulations related to control of zoonotic diseases and food safety, identify gaps, overlaps, conflicting	2023	+++	+++	CUOH, DDC, FDA, DLD, DOF, DNP, Academia	<ul style="list-style-type: none"> f) Identify the working group team members to review the laws and regulation g) Develop their TORs and issue executive order h) Organize the meeting to brief the team members i) Conduct review of the existing laws and regulations relevant to One Health j) Organize the multisectoral meeting to present the gaps, overlap, conflicting clauses or sections, and recommendations for harmonization

clauses to harmonize them to facilitate implementation of One Health activities					k) Submit proposals for harmonization and amendments of the relevant legislations
9.3 Designate Technical professionals (medical doctors, veterinarians, wildlife and environmental experts on part time basis) for legal divisions of One Health sectors to provide technical review and advises for development, review, harmonization and amendment of laws and regulations to capture One Health approach	2024	++	+++	DLD, DDC, DOF, DNP, ACFS, FDA	<ul style="list-style-type: none"> a) Identify and designate technical professionals b) Develop TORs c) Conduct training to these professionals on One Health and legal aspects d) Assign tasks to them
9.4 Draft proposal for harmonization and amendment of priority legislations	2023 Q2-4	++	+++	<ul style="list-style-type: none"> -NCZD EOP -NCCD surveillance department - SCVL -GAVS livestock health protection department - MoET division responsible for animals 	<ul style="list-style-type: none"> a) Organize workshop for drafting harmonized and amended legislations for approval by the government b) Organize multi-sectoral consultative meetings to endorse the harmonized and amended sections of the relevant legislations c) Submit the legislations to be amended for approval d) Circulate the newly harmonized and amended legislations to all the stakeholders e) Conduct sensitization and awareness on newly harmonized and amended sections of the legislation to all stakeholders

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

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