





# Tripartite Zoonosis Guide (TZG) Operational Tools



# TZG Surveillance and Information Sharing Operational Tool (SIS-OT)



Taking a Multisectoral,  
One Health Approach:

A Tripartite Guide to Addressing  
Zoonotic Diseases in Countries



- **Developed by FAO-led SIS OT technical area working group:** FAO, WHO, OIE, US-CDC, experts from regional and country public health and animal health services, organizations and academic institutions
- Developed as part of a joint Tripartite (FAO, OIE and WHO) operational tools project

Supports implementation of **Chapter 5.2**  
**“Surveillance for zoonotic diseases and information sharing” of the Tripartite Zoonosis Guide (TZG).**



# TZG Surveillance and Information Sharing Operational Tool (SIS-OT)



**Surveillance and  
Information Sharing  
Operational Tool  
(SIS OT)**

**Main  
Objective**



Develop a roadmap and a plan  
to advance development of  
**the national coordinated  
surveillance system for  
zoonotic diseases**

# Hypothetical Joint/Coordinated Surveillance and Information Sharing System



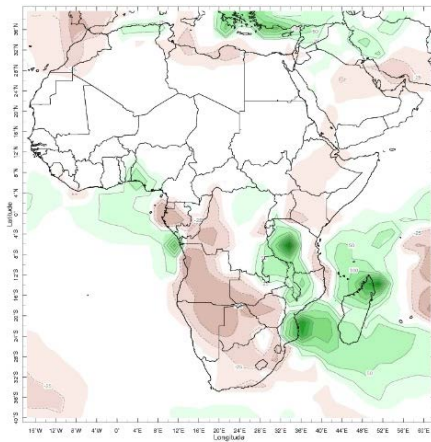
**Animal health surveillance data**



**Public health surveillance data**



**Weather/climate data**



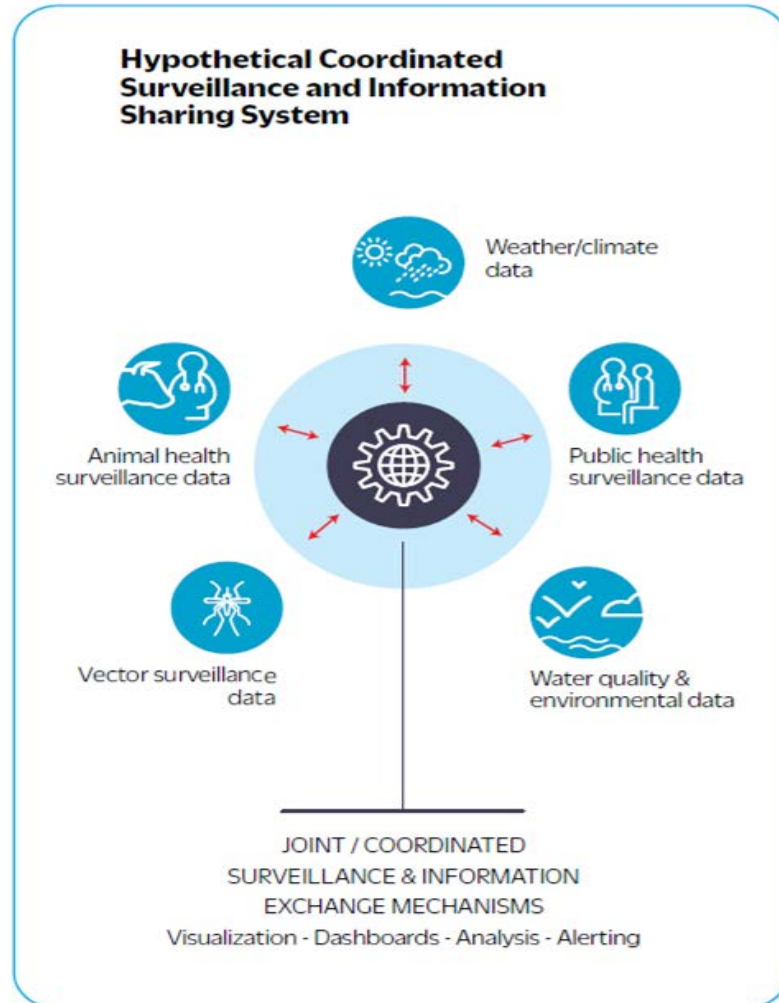
**Vector surveillance data**



**Water quality & environmental data**

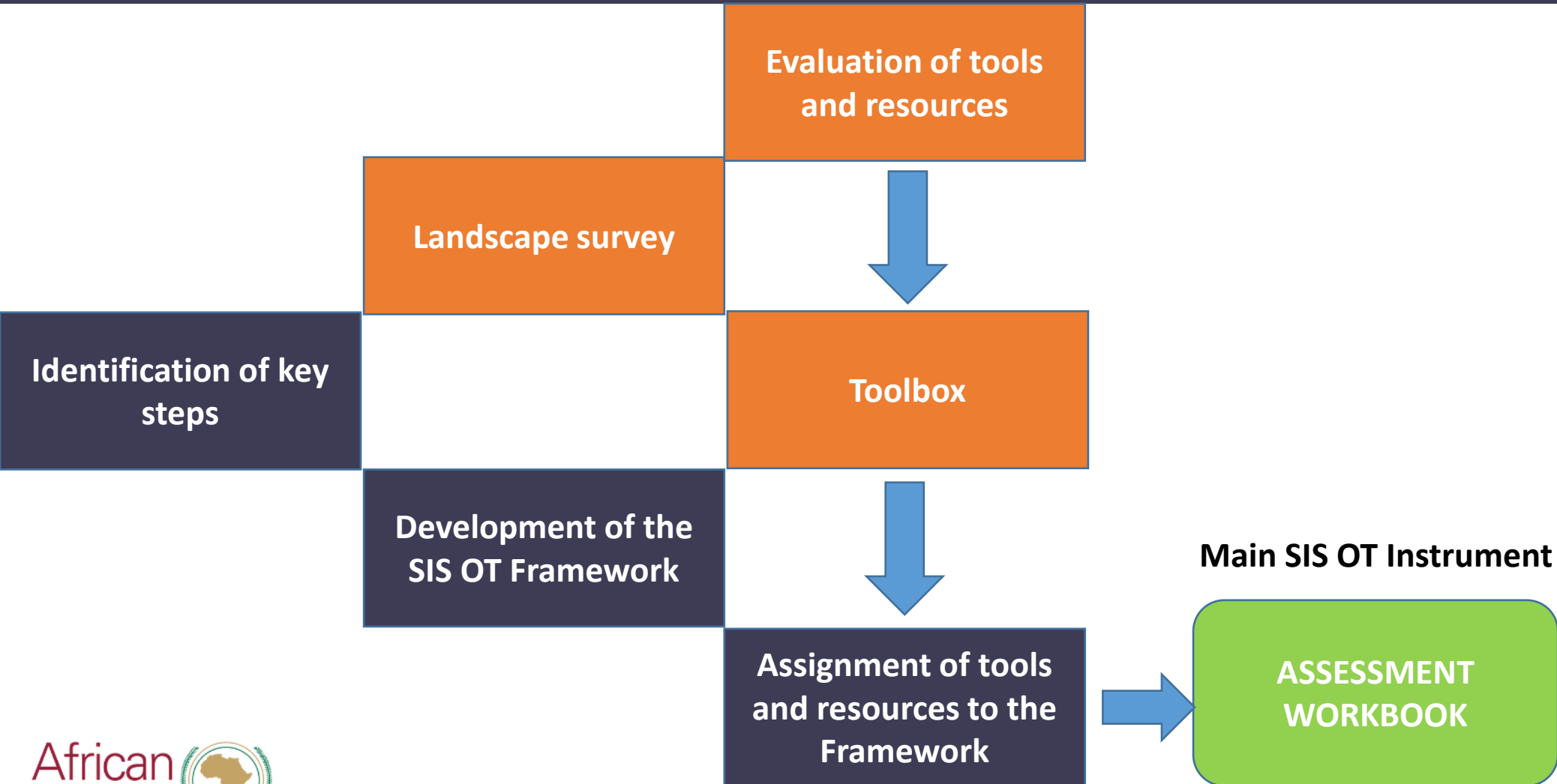


# SIS OT at a glance



- Simple, practical and easy to use
- Does not require external facilitation
- Adaptable for use in any country
- Utilize and leverage existing tools and resources as much as possible
  - Templates, applications and tools for data collection, evaluation, and reporting
  - guidance documents, instructions and SOPs
- Developed to bridge existing surveillance systems, not create new “zoonotic disease” surveillance systems or structures

# How was the SIS OT developed?



# SIS OT Framework



SIS OT Structure:

**Five stages** of surveillance system implementation:

1. Pre-planning
2. Assessment
3. Planning
4. Implementation
5. Monitoring and Evaluation



SISOT Framework				
ACTIVITY	Capacity Levels			
	BASELINE	INTERMEDIATE	ADVANCED	
PRE-PLANNING	<b>Pre-Planning</b>			
	PP-1.1 Identifying Preliminary Stakeholders	Focal points, "champions" or technical working groups have been identified in all participating sectors at the national level for planning the implementation of coordinated surveillance	Focal points, "champions" or technical working groups have been identified in all participating sectors and at all country levels for planning the implementation of coordinated surveillance	Focal points, "champions" or technical working groups (including identified focal points or "champions") for coordinated surveillance have been institutionalized (e.g. through a governing body such as an MCM)
	PP-2.1 Prioritization	A list of prioritized zoonotic diseases exists for inclusion in a coordinated surveillance system	A list of zoonotic diseases is broadly distributed to the subnational and community levels	A list of zoonotic diseases is developed using a multisectoral, One Health approach. Such an approach would involve all relevant sectors in an evidence-based, transparent, repeatable prioritization process.
PP-3.1 Goal Setting	Goal(s), roles, and responsibilities of all participating sectors of the coordinated surveillance system are agreed upon at the national level	Goal(s), roles, and responsibilities of all participating sectors of the coordinated surveillance system are agreed upon and expanded to include all country levels	Goal(s), roles and responsibilities of the coordinated surveillance system have been re-evaluated to reflect the current needs of the coordinated surveillance system	
ASSESSMENT	<b>Assessment</b>			
	A-1.1 Stakeholder Mapping	Stakeholders working in surveillance, epidemiology, laboratory, and information sharing are identified	Stakeholder analysis identified participants at all country levels	Roles and responsibilities of stakeholders are institutionalized and adopted in policy
	A-2.1 Surveillance System Linkage Assessment	The interlinkages between current prioritized zoonotic disease surveillance systems are assessed among sectors	The interlinkages between current surveillance systems are assessed among sectors and at all country levels	The interlinkages between current surveillance systems are assessed and determined to meet the objectives of the coordinated surveillance system.
	A-2.2 Legal Frameworks Assessment	The legal frameworks (rules, policies, guidelines and regulations including international standards) that govern the ethical and privacy standards for surveillance and data sharing are assessed.		The legal frameworks (rules, policies, guidelines and regulations including international standards) that govern the ethical and privacy standards for surveillance and data sharing are assessed at all country levels
	A-3.1 Frameworks and Strategic Plans Assessment	Frameworks and strategic plans relevant to the coordinated surveillance system are assessed for potential consolidation and linking at the national level		Frameworks and strategic plans relevant to the coordinated surveillance system are assessed for potential consolidation and linking at all country levels
	A-3.2 Surveillance plans assessment	Existing surveillance plans, including case definitions, protocols, Standard Operating Procedures, and other documents relevant to the coordinated surveillance system are assessed for potential consolidation and linking at the national level		Existing surveillance plans, including case definitions, protocols, Standard Operating Procedures, and other documents relevant to the coordinated surveillance system are assessed for potential consolidation and linking at all country levels
A-3.3 Other Operational Plans Assessment	Existing operational plans relevant to the coordinated surveillance system are assessed for potential consolidation and linking at the national level		Existing operational plans relevant to coordinated surveillance system are assessed for potential consolidation and linking at all country levels	

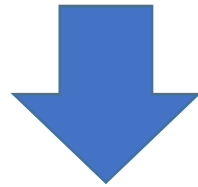
**35 unique activities and requirements**, which progress from **basic** through **intermediate** up to **advanced** capacity levels.

**SIS OT Framework forms the basis of the SIS OT assessment methodology**



# Landscape Survey

- “Snowball” sampling survey for tools and resources to consider including in the SIS OT “ toolkit”
- Sent to universities, professional networks, non-governmental organizations, and government departments
- >120 tools total submitted or identified by Working Group for inclusion



**89 currently included in the SIS OT Toolbox**

Ad hoc addition of tools is ongoing



QUESTIONS RESPONSES 1

Section 1 of 10

## Tripartite Zoonoses Guide Surveillance and Information Sharing Operational Toolkit Development Landscape Survey

The Food and Agriculture Organisation (FAO) of the United Nations is developing an operational toolbox to accompany the newly released “Tripartite Guide to Addressing Zoonotic Diseases in Countries”. This toolbox aims to guide countries in establishing a coordinated national surveillance system for zoonotic diseases, including mechanisms for data sharing between all relevant sectors.

To do this, the working group is seeking to identify any existing tools or resources that may assist countries in doing so. Because of your expertise in this field, we are hoping to gain your insight.

If you have developed, used or are aware of any available tools which are publicly available, or which you may be willing to make available to the working group, we are seeking your input.

The 2019 edition of the Tripartite Guide to Addressing Zoonotic Diseases in Countries can be found at: <https://extranet.who.int/sph/sites/default/files/document-library/document/Tripartite-Guidance-EN-web%20single%20page.pdf>.

Image title

Taking a Multisectoral, One Health Approach:  
**A Tripartite Guide to Addressing Zoonotic Diseases in Countries**

# Tools and resources evaluation



Evaluation Matrix:  
Objective assessment instrument to evaluate tools/resources based on a set of evaluation criteria

Example criteria:

- Is there a cost associated with using the tool?
- Does the tool work with multiple languages?

Each tool/resource evaluated by 2 - 3 AHSI WG members

Evaluation Matrix\_OHZDP\_Shadomy(ver 2) - Excel

Shadomy, Sean (CDC/DDID/NCEZID/OD) Share

B90 Yes, there are multiple publicly available examples; results incorporated into national plans

**CDC OHZDP**

Reviewer Name(s): Sean Shadomy  
 Reviewer title and affiliation: Veterinary Epidemiologist, CDC One Health Office Liaison to FAO  
 Describe your history and familiarity with this tool: I was trained as an OHZDP workshop facilitator in 2017, and have since facilitated one country and one 15-country regional OHZDP workshops and supported training of additional FAO and WHO facilitators

Tool Description & Scoring Outcome						Show Content	Evaluation Results			
What type(s) of tool is this? (highlight)	Prioritization	Prioritization is the process of deciding the relative importance of preventing, controlling, or eliminating a zoonotic disease from a list.	Assessment is the process for determining "gaps" between current and desired situation as it	Plans are operational or action-oriented descriptions of activities to be undertaken, often based on an overarching	Implementation is the process of carrying out, execution, or practice of actions defined during the planning stage. To meet	Monitoring is a continuous function to inform management and the main stakeholders of progress achieved.				
What are the objective(s) of the tool	concern that should be joined to the original 2014 article. <a href="https://doi.org/10.1371/journal.pone.0199986">https://doi.org/10.1371/journal.pone.0199986</a>									
From where can you source the tool?	from the original 2014 article. <a href="https://doi.org/10.1371/journal.pone.0199986">https://doi.org/10.1371/journal.pone.0199986</a>									
What version of the tool is in circulation?							3.2			
Please list point(s) of contact	<a href="mailto:anehealth@cdc.gov">anehealth@cdc.gov</a>									
Is tool operation mainly manual, electronic, or both? (highlight)	Manual	Electronic	Manual and Electronic							
What pre-requisites are needed to operate the tool?	computer with MS Excel or compatible freeware program									
To date, how often has this tool been used? (highlight)	Developed, no pilot test	Pilot tested	Pilot tested, limited use (3 or less times)	Frequently used (4 or more times)	26 workshops as of 27 oct 2019 including 25 country and one					
Has the tool been updated to keep it relevant and usable?	Yes - tool has been reworked in 2019 to generate a draft workshop report based on the use of the tool in a workshop along with functional updates									
Are there peer reviewed publications or formally cleared reports referencing this tool?	Yes; online reports are at <a href="https://www.cdc.gov/onehealth/global-activities/prioritization.html">https://www.cdc.gov/onehealth/global-activities/prioritization.html</a> publications are at the following <a href="https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0196799">https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0196799</a>									
Describe what steps are included?	approximately 1-2 months advance preparation to: develop an initial list of 20-40 zoonoses for consideration, and to develop a database on candidate diseases for analysis; to									
List all the languages the tools is available in	English; Spanish; Portugese									
Provide a brief description of the tool	Excel-based decision guiding tool providing step-by-step guidance on conducting a multisectoral, One Health prioritization process based on a workshop process. The tool utilizes									

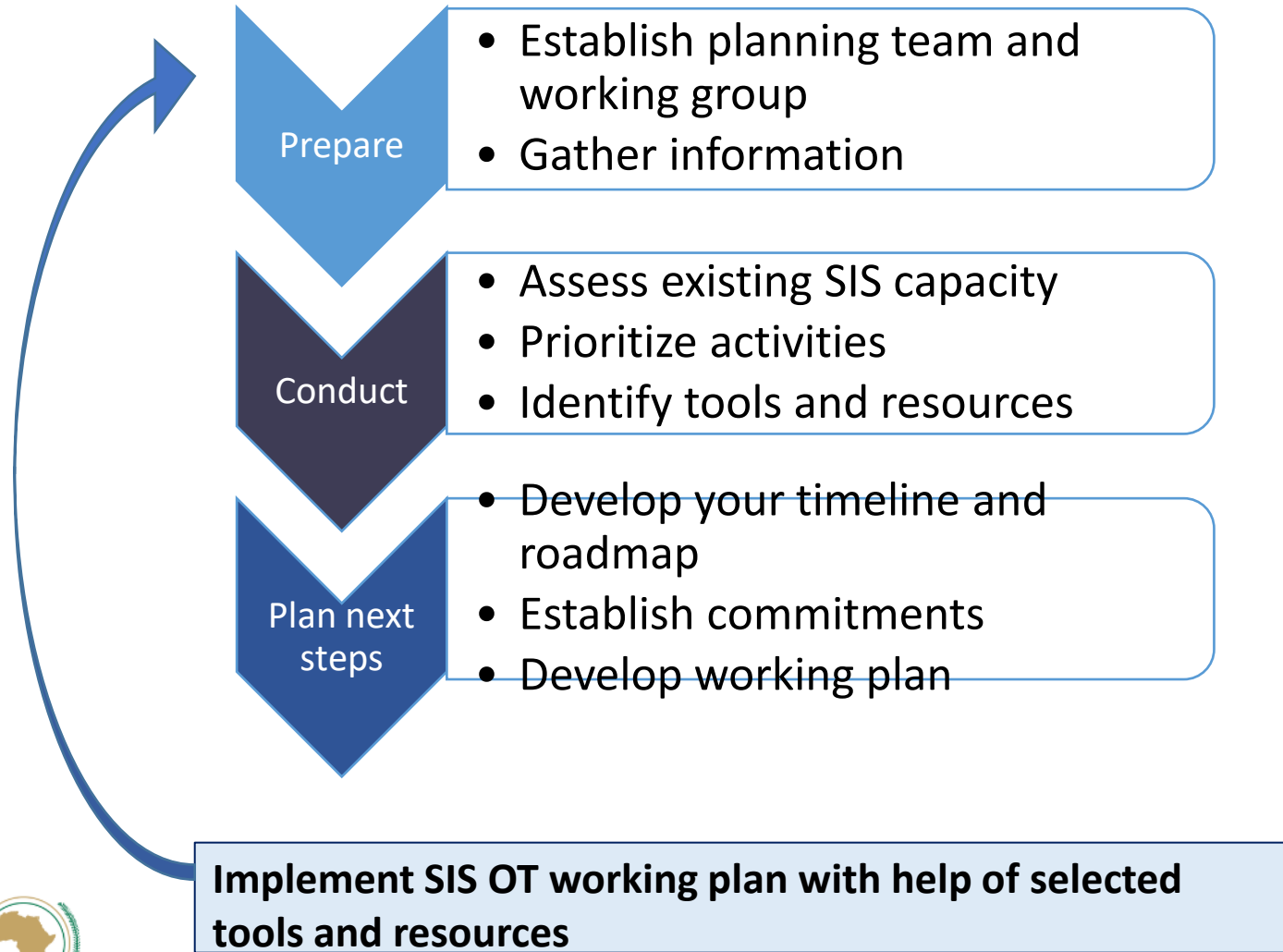
Evaluation Criteria	Score
Accessibility	7.6
Language	8.6667
Ease of Use	8.8
Flexibility	6
Data Needs	7.4286
Data Analysis	6.6667
Acceptability	8
One Health	8.8
Impact	10
<b>Average</b>	<b>79.96</b>

Evaluation Criteria	Show Content	SCORING CRITERIA			
		Score	Weighted Score (of 10 total points)	Eligible Categories	Total possible point-value
How available is the tool to users:		1			
Is the tool paper based or online?					
If online, what platforms are available for downloading?					

# SIS OT Process



Repeat SIS OT assessment process to monitor progress



} **Pre-Workshop**

} **Workshop or Meetings**

# SIS OT Structure



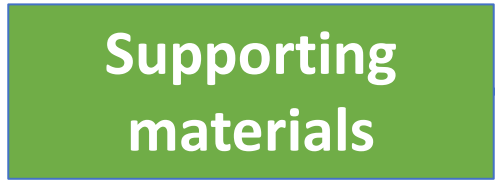
Manual describing the whole SIS OT process, step by step.



Stepwise assessment of the existing level of capacity development of a national coordinated SIS system



Selection and prioritization of activities, development of a roadmap and a workplan.

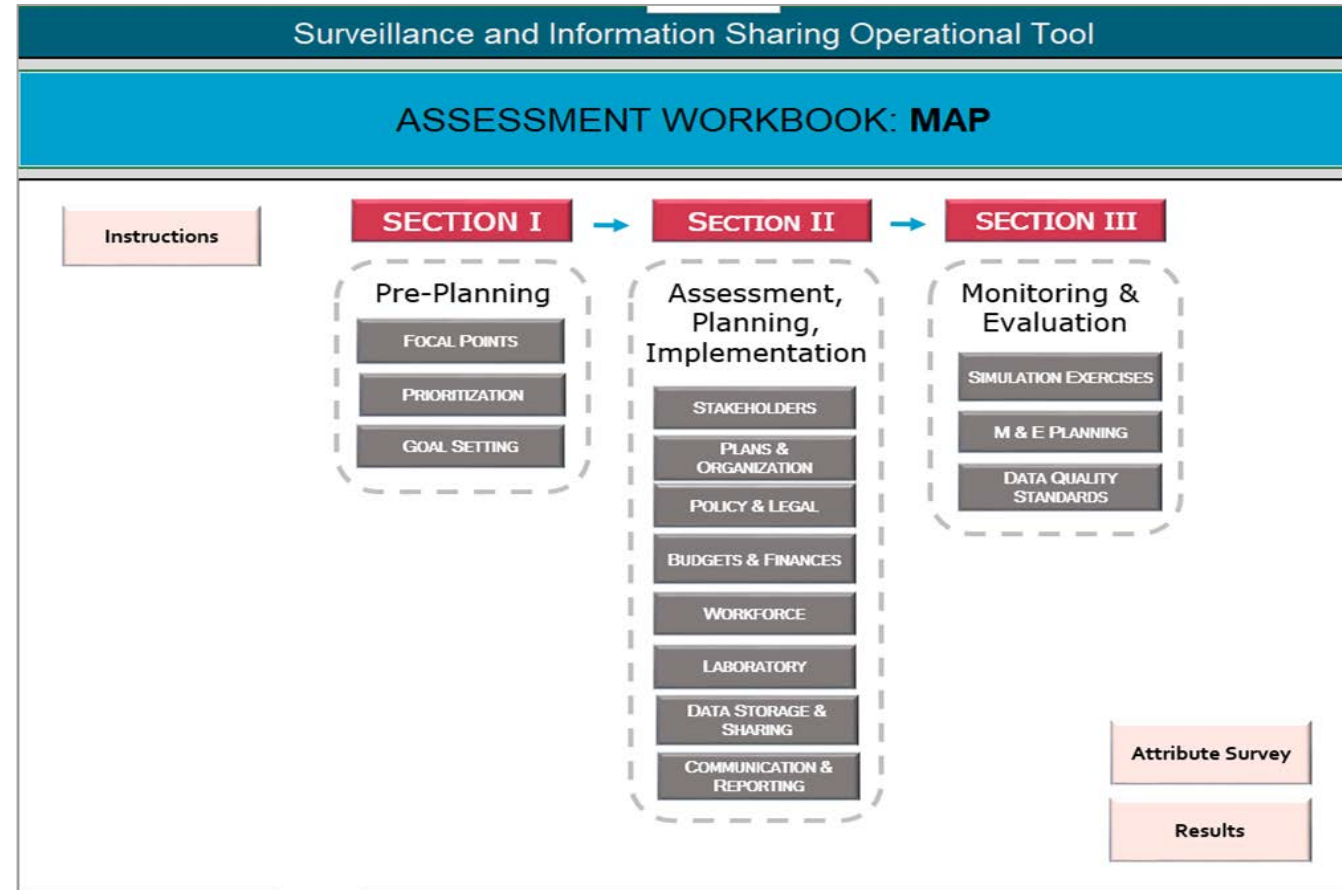


- Annex 1: Stakeholder mapping
- Annex 2: Terms of Reference for the Planning Team and Working Group
- Annex 3: Workshop templates (participant lists, agenda)
- Annex 4: Information gathering checklist
- Annex 5: Resource evaluation matrix
- Annex 6: SIS OT Framework
- Annex 7: Workshop report template

# SIS OT Assessment Methodology



- **SIS OT assessment workbook**  
mechanism for users to determine and prioritize activities they need to accomplish and link to appropriate tools and resources
- The core of the SIS OT based on the **SIS OT framework and Toolbox**
- **Stepwise approach** to guide assessment of national capacity development
- 35 framework activities grouped into 14 categories across the 5 stages



# SIS OT Assessment Process



Users identify the existing level of national capacity for each activity

Results are based on both the complexity of development and extent to which capacity is present in the country



## Focal Points

Please select whether each activity below is completed ("Yes") or pending ("No") based on the current level of capacity in your country.

**IMPORTANT NOTES:**

- If the activity does not apply to your situation, leave the entire question blank.
- If you do not know the answer, select "No".
- If there are two elements to each activity (the sentence will be joined with "AND"), BOTH must be complete if "Yes" is selected as your response.

**CRITICAL ASSUMPTION:**

- Since the CBG refers to the developed of coordinated surveillance and data sharing, selecting "Yes" implies that the activity has been completed in a MINIMUM OF TWO ONE HEALTH SECTORS. If the activity has been completed in only one sector, please select "No".

STAGE	ACTIVITY	BASELINE	INTERMEDIATE	ADVANCED
Pre-Planning	Identifying Preliminary Stakeholders	Focal points, "champions" or technical working groups have been identified in all participating sectors at the national level for planning the implementation of coordinated surveillance	(if yes) Focal points, "champions" or technical working groups have been identified in all participating sectors and at all country levels for planning the implementation of coordinated surveillance	(if yes) Focal points, "champions" or technical working groups (including identified focal points or "champions") for coordinated surveillance have been institutionalized (e.g. through a governing body such as an MCM)
		RESPONSE: <input checked="" type="checkbox"/> Yes	RESPONSE: <input type="checkbox"/> No	RESPONSE: <input type="checkbox"/>

<< Return to Map

< BACK: Pre-Planning

NEXT: Prioritization >

# SIS OT Assessment Results: Resource Guide



Links to available resources & tools

Resources ranked by user-assigned weighting based on evaluation matrix criteria

Users develop implementation roadmap and timeline to use selected resources



Focal Point Resources																
DESIGNATION	RESOURCE NAME	RESOURCE TYPE	RESOURCE GENERALIT	Accessibility	Language	Ease of use	Flexibility	Data Needs	Data Analysis	Acceptability	One Health	Impact	RAW SCORE	ADJUSTED SCORE (Based on user preferences)		
BASELINE RESOURCES	Resources Best Fit For Purpose	Policy Field Analysis	Guidance document	One Health; Generalized	7.8	8	9.8	10	7.1	4.0	7.0	8.8	5.0	75%	75%	CLICK FOR MORE ON PFA
	Other Relevant Resources	Africa CDC Event Based Surveillance Framework	Guidance document	One Health; Generalized	8.0	6.0	8.2	8.3	6.1	3.5	4.0	7.0	6.0	63%	66%	CLICK FOR MORE ON AFRICA CDC EBS FRAMEWORK
		Evaluation of Collaboration in a multisectoral Surveillance system (EcoSur)	Guided/Facilitated tool or process	One Health; Generalized	8.3	6.0	8.5	7.8	8.3	6.7	3.3	9.1	4.7	70%	74%	CLICK FOR MORE ON EcoSUR
		Integrated Disease Surveillance and Response (IDSR)	Guidance document	Sector Specific; Generalized	7.4	10	7.4	8.7	6.7	4.5	8.0	7.2	8.5	69%	73%	CLICK FOR MORE ON IDSR
		The One Health Systems Assessment for Priority Zoonoses (OH-SAPZ)	Self-assessment tool	One Health; Generalized	7.9	7.3	7.2	7.8	6.5	5.2	4.0	8.3	9.7	71%	74%	CLICK FOR MORE ON OH-SAPZ
ADVANCED RESOURCES	Other Relevant Resources	National Action Plan for Health Security (NAPHS)	Guidance document	One Health; Generalized	8.0	9.0	7.8	10	8.0	4.5	10	10	10	86%	87%	CLICK FOR MORE ON NAPHS
		One Health Surveillance Readiness and Requirements Tool (OHSRRT)	Self-assessment tool	One Health; Generalized	8.0	6.0	7.4	8.7	6.0	2.5	2.0	9.6	5.5	62%	67%	CLICK FOR MORE ON OHSRRT



# Development Workbook: Development Plan



Activity	Target capacity level BL-Baseline level; INT-Intermediate level; ADV-Advance level	Selected resources and tools	Actions	Impact	Feasibility	Anticipated challenges	Priority	Timeframe	Lead, and Role/ responsibility of each partner	Point of contact (name, title, organization, sector) of each partner	Indicator for this Requirement	Other notes
<b>Example</b>												
<u>Prioritization</u>	BL: A list of prioritized zoonotic diseases exists for inclusion in a coordinated surveillance system	OHZDP	Perform the prioritization exercise (e.g. CDC One Health Zoonotic Disease Prioritization (OHZDP) workshop)  Update the sectors' priority diseases lists according to the results of the prioritization exercise	High impact	Somewhat Feasible	May require additional funds for conducting a multisectoral exercise; To contact CDC to explore on possibility to conduct OHZDP workshop.	High priority	By 1st quarter 2022	Lead: Animal Health (AH); The Human Health (HH) representative will contact CDC and identify participants from HH sector. AH rep will coordinate logistics and venue	Linda Bianca, Dir of AH Services <u>MoA</u>  Dan Fisher, Dir of Health Services, <u>MoH</u>	Prioritization exercise held and attended by all relevant sectors The priority lists are updated according to the results of the prioritization process for all relevant sector	



## Workshop final report template

A detailed record of all the discussions held and decisions made throughout the SIS OT workshop

### Surveillance and Information Sharing Operational Tool: Meeting/Workshop Report Template

**1. SIS OT meeting/workshop administrative overview**

Notes/Instructions:

- Include Date, time, and place, chair, agencies attending

**2. Meeting/workshop summary (executive summary)**

- Summarize the goal/objective and overall outcome of the SIS OT meeting/ workshop

**3. Summary of CBG Self-assessment results**

|

**4. Summary of requirements identification and prioritization**

- List the requirements identified (Refer to Annex 6)
- Provide a brief justification for the high priority requirements

**5. The Roadmap**

- Include developed Roadmap
- Provide a brief comments on requirements implementation timeline

**6. Selected resources**

- Include the Table with selected candidate resources (Annex 6)
- Indicate the next steps for final resources selection and their use

**7. Summary of the SIS development plan Table**

- Summarize the consensus (can refer to SIS development plan Table).
- Provide a brief justification (including any dissent)

# After completing the SIS OT countries will have:



- A detailed assessment of the existing level of capacity for coordinated surveillance of zoonotic diseases and information sharing
- A prioritized list of activities, SIS development plan and timeline to advance development
- Agreement on responsibilities and commitments to implement each activity
- Suitable tools and resources to support accomplishing the prioritized list



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World Organisation for Animal Health / [oi@oie.int](mailto:oi@oie.int)



<https://bit.ly/2SGt2GK>



# INAUGURAL ONE HEALTH CONFERENCE

1 - 3 November 2021

# THANK YOU

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