

MOMENTUM Routine Immunization Transformation and Equity

Optimizing COVID-19 Vaccination Data Investments for the Future: The COVID-19 to Routine Immunization Information System Transferability Assessment (CRIISTA)

Webinar | May 24, 2023



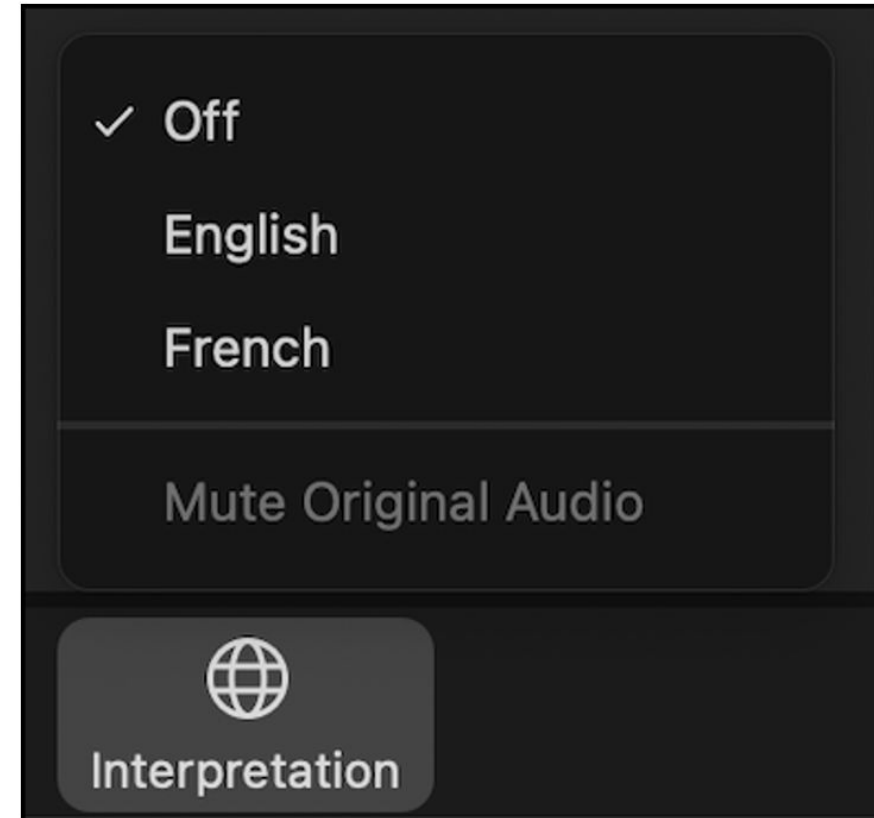
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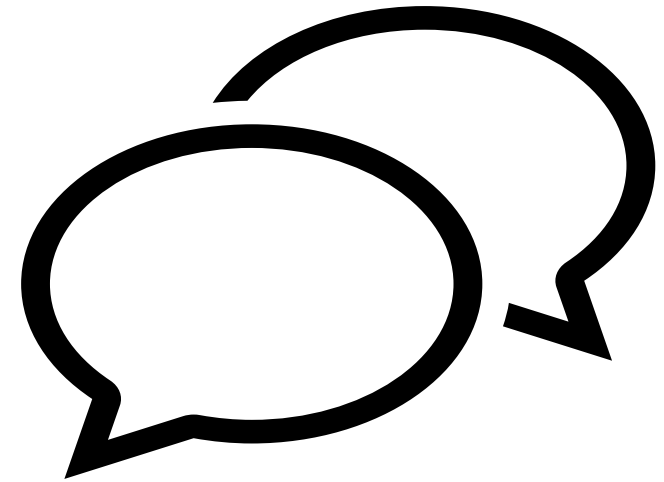
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Presenters



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Our Project

MOMENTUM Routine Immunization Transformation and Equity envisions a world in which **all people eligible for immunization**, from infancy throughout the life-course, and particularly underserved, marginalized, and vulnerable populations, are regularly **reached with high-quality vaccination services** and use them to protect their children and themselves against vaccine-preventable diseases.



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- Background and Development

2. FRAMEWORK AND IMPLEMENTATION OVERVIEW

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3. Discussion/ Q&A

Problem Statement

- In response to COVID-19 (C19), many stakeholders (including MOHs, funders, and implementing partners) prioritized the development and implementation of **C19 immunization information systems (IISs)**.
- There is now interest in understanding the effectiveness and usefulness of **transferring and scaling** these C19 IISs for use in routine immunization (RI).



Type in the chat:

What type of C19 immunization information system or data system is your country using?

The CRIISTA Framework: An Overview

- **Goal:** To guide decision-making about *whether* to transfer or scale-up a C19 IIS for RI.
- **Developed** based on existing frameworks; revised based on feedback from beta testing in Kenya, as well as user feedback.
- **Intended users:** MOH, EPI, and HMIS decision-makers and program managers.
- **Scope:** Context, Functionality, Technology, Users, and Resources for both the existing (C19) and proposed (RI) IIS.
- **Process:** Information is gathered (via desk review and key informant interviews) and then synthesized and summarized for use by decision makers during an in-person consensus building workshop.

The CRIISTA Toolkit



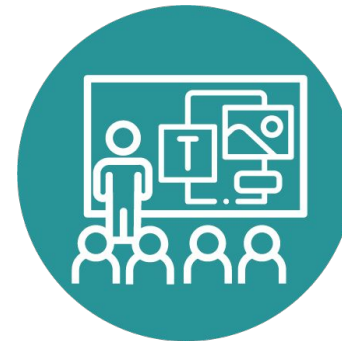
User Guide (PDF)



CRIISTA Framework Content (PDF)



Information Collector & Calculator (Excel)

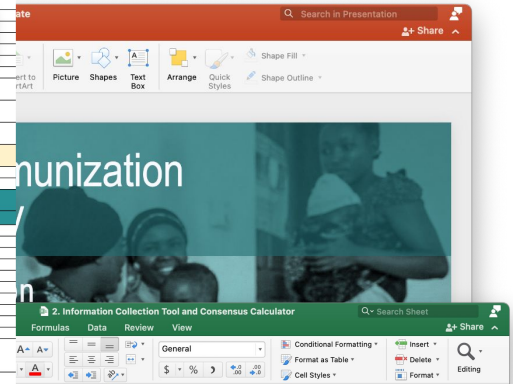


Suitability Assessment Workshop Template (PPT)

2. Information Collection Tool and Consensus Calculator

Technology			
C19 IIS			
Source	Question	Type	Responses
	What hardware is required for the C19 IS?	Choice	Yes
		Desktop/laptop	Choice
		Tablet	Choice
		Phone	Choice
		Printers	Choice
		Surge protectors	Choice
		WiFi routers	Choice
		Solar panels	Choice
		Other (please specify)	Choice
	What is the availability of electricity where the C19 IS is deployed?	Choice	High or proficient literacy (able to read and comprehend most texts)
	What best describes the offline functionality of the C19 IS?	Choice	High literacy (able to read and comprehend basic text)
	Where is the C19 IS hosted?	Choice	No literacy (not able to read text)
	Please briefly describe data storage requirements for the existing C19 IS.	Freetext	Unknown or not applicable
	Please BRIEFLY describe the C19 IS database architecture.	Choice	
	Are the data structure standards clearly documented and aligned with data collection tasks?	Choice	
	Please describe the cost structure associated with the C19 IS software. Please include licensing fees (if not open source or free), hosting, setup, etc.	Choice	
	Does the C19 IS adhere to applicable national and/or local policy, strategy, guidelines, and/or standards for interoperability?	Choice	
	Does the C19 IS adhere to applicable national and/or local policy, strategy, guidelines, and/or standards for:		
		Data privacy	Choice
		Security	Choice

Proposed RI IIS			
Source	Question	Type	Responses
	What is the availability of hardware where the IS would be deployed?	Choice	
		Desktop/laptop	Choice
		Tablet	Choice
		Phone	Choice
		Printers	Choice
		Surge protectors	Choice
		WiFi routers	Choice
		Solar panels	Choice
		Other	Choice
	What is the availability of electricity where the IS would be deployed?	Choice	
	What is the availability and stability of network and data connectivity where the IS would be deployed?	Choice	
	Are there any specific requirements for the RI related to where it is hosted?	Choice	
	Please briefly describe the expected data storage requirements for the proposed IS?	Freetext	
	How many users are estimated to use the IS?	Freetext	
	Are there any specific requirements for the RI related to its data architecture? If yes, please briefly summarize any known design or technical specifications.	Choice	
	Would the IS need to rely on or require data from external sources or databases? If so, please list (e.g., birth/death registry, electronic medical records (EMR)).	Choice	



Consensus Calculator: Consensus Input

Question	Score (From 'Input' Tab)	Selection	Mean
The proposed IS would meet RI's needs	4		3.0
The proposed IS would be an improvement from the current system/processes	4		
The proposed IS will meet data use/analysis requirements.	5		3.5
The proposed IS can be easily integrated into the current system/processes	3		
Technology			
The current infrastructure, including hardware, electricity, network connectivity, and data storage is adequate to support the proposed IS	2		3.5
The C19 IS is well-aligned with the HIS ecosystem and the proposed IS is anticipated to be well-aligned.	5		
Users			
The proposed IS is anticipated to be easy to learn and use for RI users	3		2.5
The infrastructure and resources required to train and support users are feasible.	2		
Resources			
Sufficient financial resources are available or potentially available to support the transfer (front-end costs) and scaling (recurring costs) of the C19 IS to the RI context	2		2.0
Sufficient technical expertise is available to support the transfer of the C19 IS to the RI context	2		
Domain Average			2.9

1-2	2-3	3-4	4-5
		2.9	

CRIISTA Roles

- **Implementation Team:** Core team responsible for administering the assessment, collecting information, and facilitating the final consensus-building workshop.
- **Advisory Panel:** EPI directors, senior MOH officials, and others with decision-making authority who have an interest in understanding whether or not it is appropriate to scale the C19 IIS to RI. It is chaired by a senior official or staff member who also ensures engagement and participation from key informants and other advisory panel members.
- **Key Informants:** Subject matter experts, including IT managers, national or regional EPI leaders, and others whose practical subject matter expertise contributes to the information collection and synthesis.

CRIISTA Implementation Overview

1

Setup and Planning (1 week)

CRIISTA team meets to work plan, including identifying key decision-makers, key informants, and other stakeholders.

2

Information Collection and Synthesis (2 weeks)

Information is collected on both the existing C19 and proposed RI IIS via desk review and key informant interviews. That data is synthesized to illustrate potential strengths, weaknesses, challenges, and opportunities related to scaling the IIS to RI.

3

Suitability Assessment Workshop (1-2 days)

A workshop with all CRIISTA participants is convened to review the synthesized findings, complete a suitability assessment, and build consensus.

Domain 1 Overview: Context



The purpose of this section is to assess (1) the extent to which a C19 IIS is aligned with immunization and digital health strategies and plans and (2) if it is a priority for key decision-makers.

SAMPLE QUESTION AND PROMPTS:

- What is the current level of political support and ownership of the existing C19 IIS, and the proposed RI IIS?
- Please describe the national strategy and guidance for both immunization and eHealth



Domain 2 Overview: Functionality



The purpose of this section is to assess if the C19 IIS (1) would meet the needs of the RI context, (2) be an improvement from the current RI system and processes, and (3) could be easily integrated into current RI systems and processes.



SAMPLE QUESTIONS AND PROMPTS:

- Are the following specific IIS functionalities included in the C19 IIS? (EIR, HMIS, eLMIS, civil registration/vital statistics, AEFI, etc)
- Which specific IIS functionalities would best address immunization and IIS challenges? Please indicate each as high, moderate, or low priority.

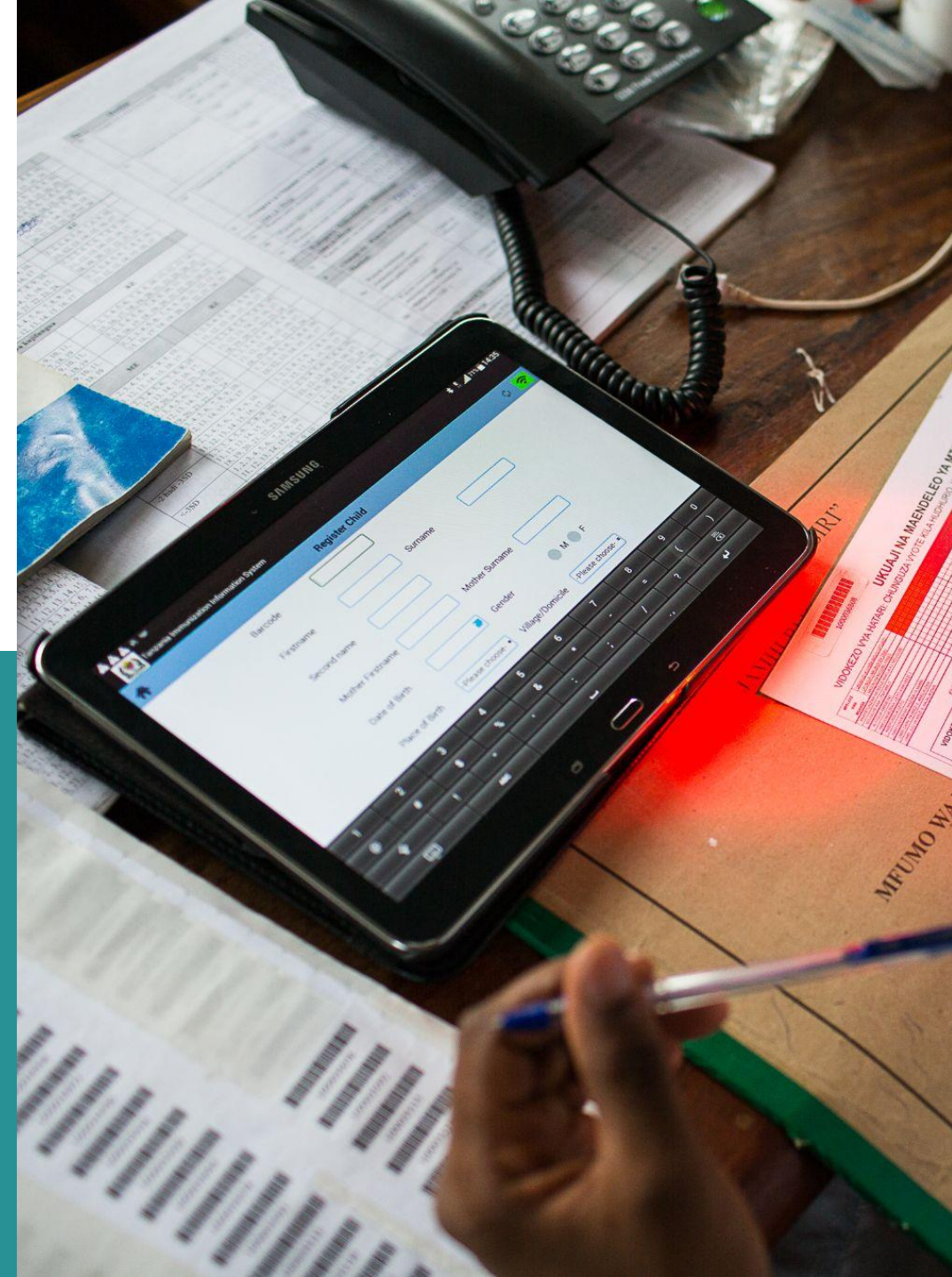
Domain 3 Overview: Technology



The purpose of this section is to assess (1) if the current HIS infrastructure is adequate to support the proposed IIS and (2) if the C19 IIS is well-aligned with the HIS ecosystem.

SAMPLE QUESTIONS AND PROMPTS:

- What hardware is required for both the C19 and proposed (RI) systems?
- Please list any national or subnational databases with which the IIS exchanges data with (identity, logistics, HMIS, etc).
- Please describe electricity and connectivity dependencies of the existing (C19) IIS, as well as the availability of electricity and connectivity in areas where the proposed (RI) system would be deployed.
- Would the IIS need to rely on or require data from external sources or databases?



Domain 4 Overview: Users



The purpose of this section is to assess (1) the usability of the IIS and (2) whether infrastructure and resources exist to train and support users for the proposed RI IIS.

SAMPLE QUESTIONS AND PROMPTS:

- Who are the users of the C19 IIS? And who would use the proposed RI IIS?
- What resources are currently in place to support potential IIS users to perform RI data tasks?
 - Pre-service education
 - Off-site, in-service trainings
 - Online trainings
 - Supportive supervision/mentorship
 - User guides



Domain 5 Overview: Resources



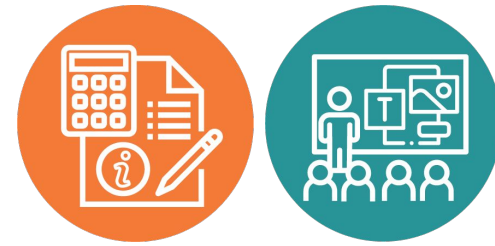
The purpose of this section is to assess if there are (1) sufficient financial resources and (2) technical expertise to support the transfer and scale-up of the C19 IIS to the RI context.

SAMPLE QUESTIONS AND PROMPTS:

- What are the major recurring costs for C19 IIS implementation? Please provide an estimated cost/range for each major cost category.
 - Hardware
 - Software and software development
 - Infrastructure
- Will the RI IIS require additional recurring costs?



These Five Domains Populate the Information Collection and Workshop Slides



Context			
Proposed RI IIS			
Source	Question	Responses	Notes
The national immunization strategy (NIS)/comprehensive multi-year strategic plan (cMYP)...	Is available online (provide link if available):	Choice	Moderate
	Was last updated on:	Date	Last year (November)
	Is scheduled to be updated on:	Date	Unknown/td
	Includes language about objectives and strategies to strengthen IIS, including data quality and data use	Choice	No
	<i>If yes, please provide a BRIEF explanation of the key objectives and proposed strategies</i>	Freetext	
	Includes language about objectives and strategies related to the digitalization of IIS	Choice	No
The national and/or local eHealth policy, strategy, and/or guidelines...	Is available online (provide link if available):	Choice	Moderate
	Was last updated on:	Date	High Moderate Low None
	Is scheduled to be updated on:	Date	
	Includes language about strengthening IIS, including data quality, and data use	Choice	
	<i>If yes, please provide a BRIEF explanation of the key objectives and proposed strategies</i>	Freetext	
	Desk review	Which national ministries, agencies, or departments or coordinating/technical committees would be involved in decision-making and implementing C19 to RI transfer and scale-up?	Freetext
Other	What is the level of political support for IIS among key national stakeholders?	Choice	



Domain 2: Functionality (1 of 4)

The proposed IIS would meet RI's needs.

Summarize responses from C3-4 and R5-9 and select the answers and information you believe will be most helpful to workshop participants in answering this prompt

It may also be helpful to respond to some or all of the following questions based on collected information (remember that you can use more than one slide if required):

- Do the objectives and use cases of the C19 IIS align with the objectives, use cases, and IIS/immunization challenges the proposed RI IIS will need to address?
- Which key immunization/IIS challenges would the proposed IIS address? How?
- What functionality/characteristic gaps are there between the C19 IIS and the desired IIS? Consider if the RI context requires additional functionalities not available with the C19 IIS (e.g., birth registration) and if the C19 IIS has functionalities (e.g., digital vaccine certificate) that are not required for RI needs.

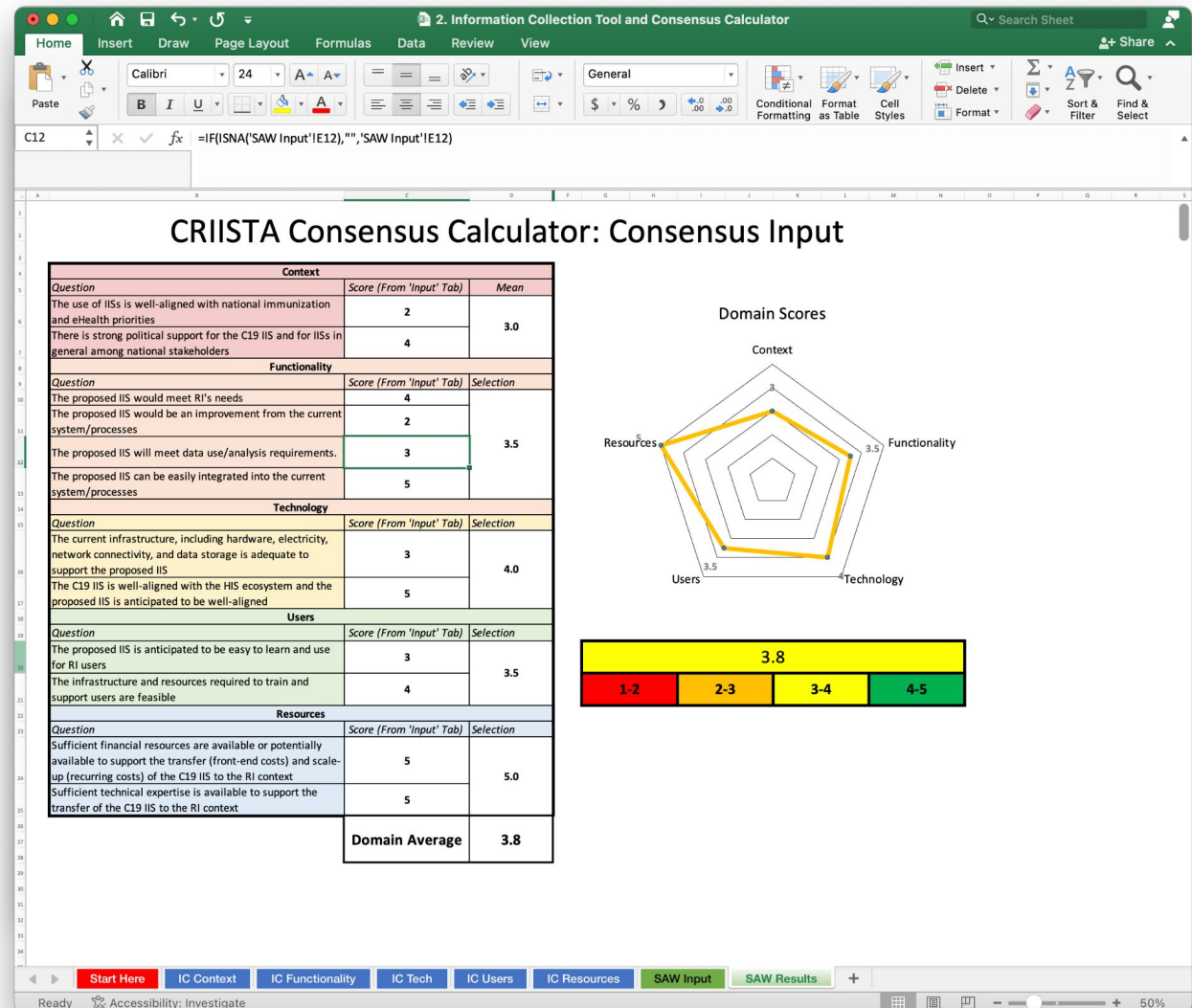
Reaching Consensus: The Suitability Assessment Workshop



Objective: To review the information collected and co-create recommendations with CRIISTA participants and key decision-makers.

Tools:

- Workshop slides with facilitation notes
- Excel-based calculator



Panel Discussion

Live Poll



Is the CRIISTA framework relevant to your context and useful for your work?

- It is not really relevant to my context.
- It is relevant to my context, but we don't need this type of framework or we have already made our decision without it.
- It is relevant to my context, and I am interested in exploring it further.

Follow-up

We currently have funding and resources to support a deployment of the CRIISTA framework. If you are interested in working with us, please reach out to schedule a follow-up conversation.

- Jessica Shearer - jshearer@path.org
- Jimi Michel - jimi_michel@jsi.com

Q&A Session

Evaluation



Please scan the QR code below to share your feedback on today's webinar.



THANK YOU

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