



AIRA
AMERICAN IMMUNIZATION
REGISTRY ASSOCIATION



Association of
Immunization
Managers

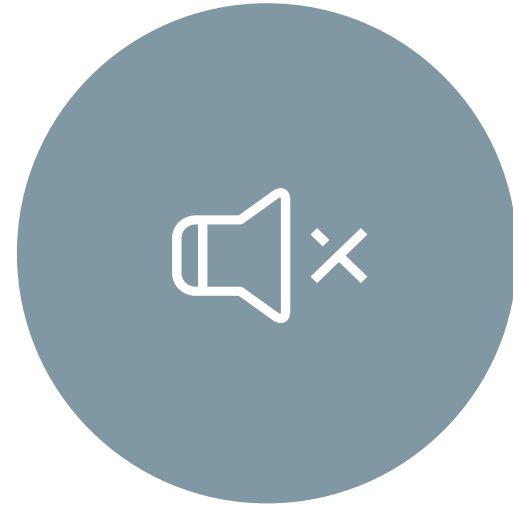
WIR Transformation Project

AIM-AIRA Discovery Session
July 13, 2022
3 PM EST

Logistics



This meeting is being recorded
and will be posted in the
AIRA repository

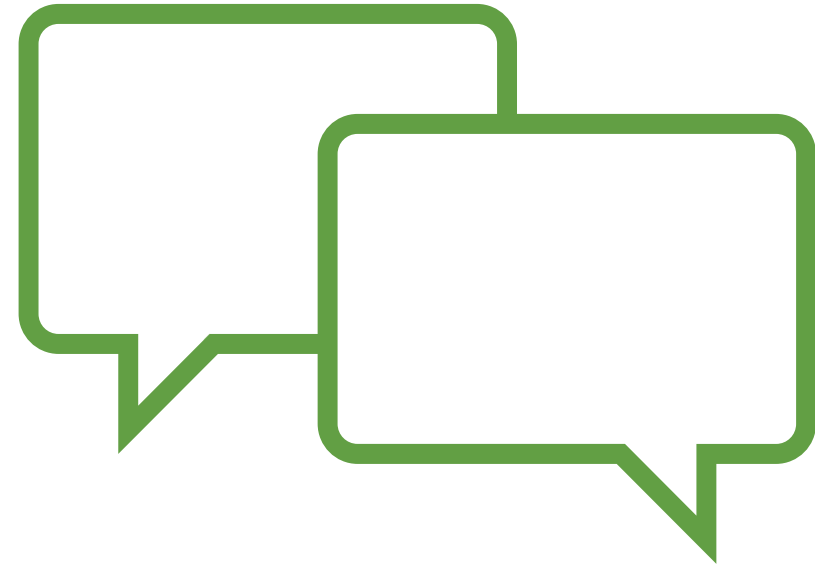


All phone lines
are muted



Technical Support

If you experience any technical issues during the meeting, please contact **Beth Parilla** via direct message in the Chat.

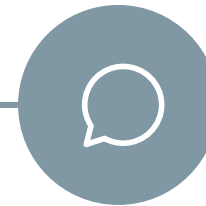


Questions

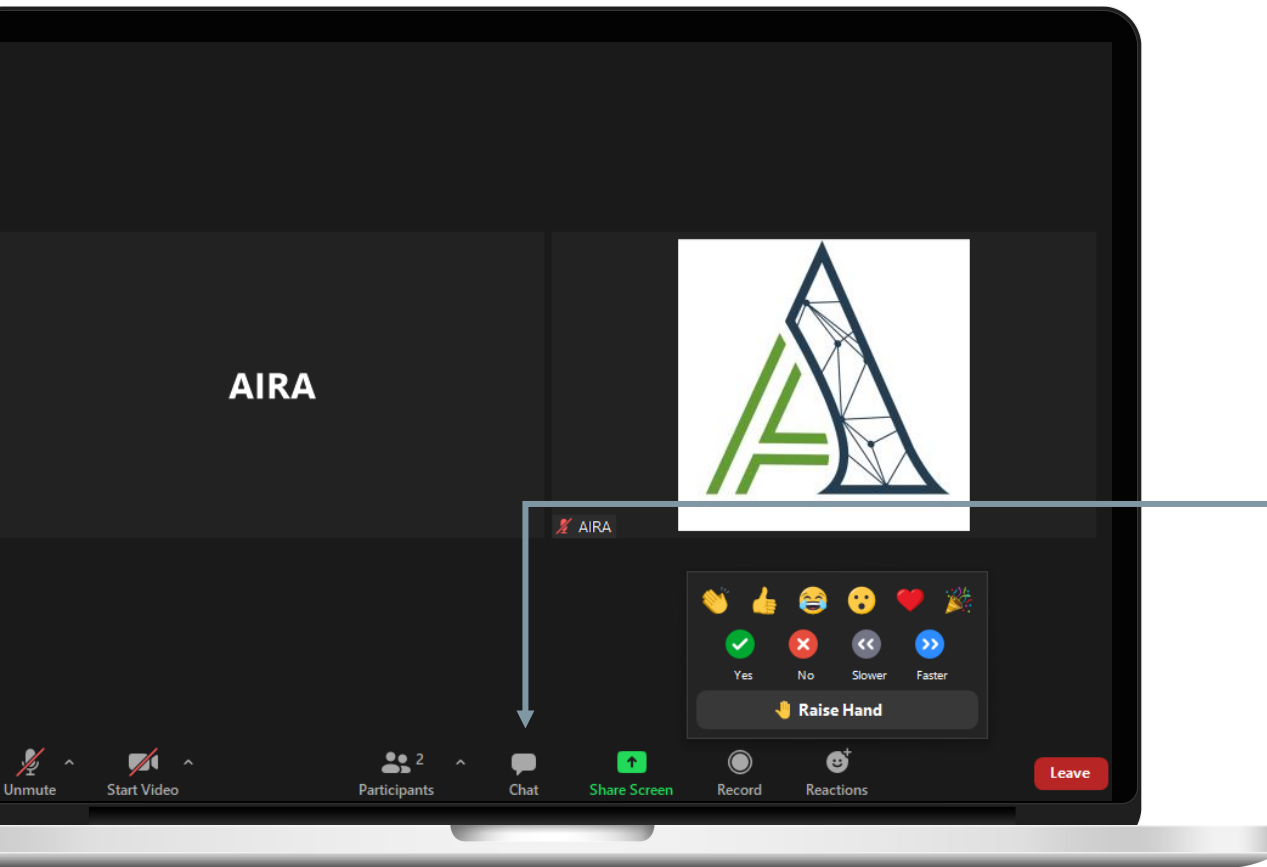
How do I ask a question?

There will be time allotted for Q&A following the presentations.

If you think of a question during the presentations:



Select the chat icon and type your question into the chat box.





Today's Speakers

- Miriam Muscoplat, MN
- Stephanie Schauer, WI





WIR Consortium Overview

July 2022

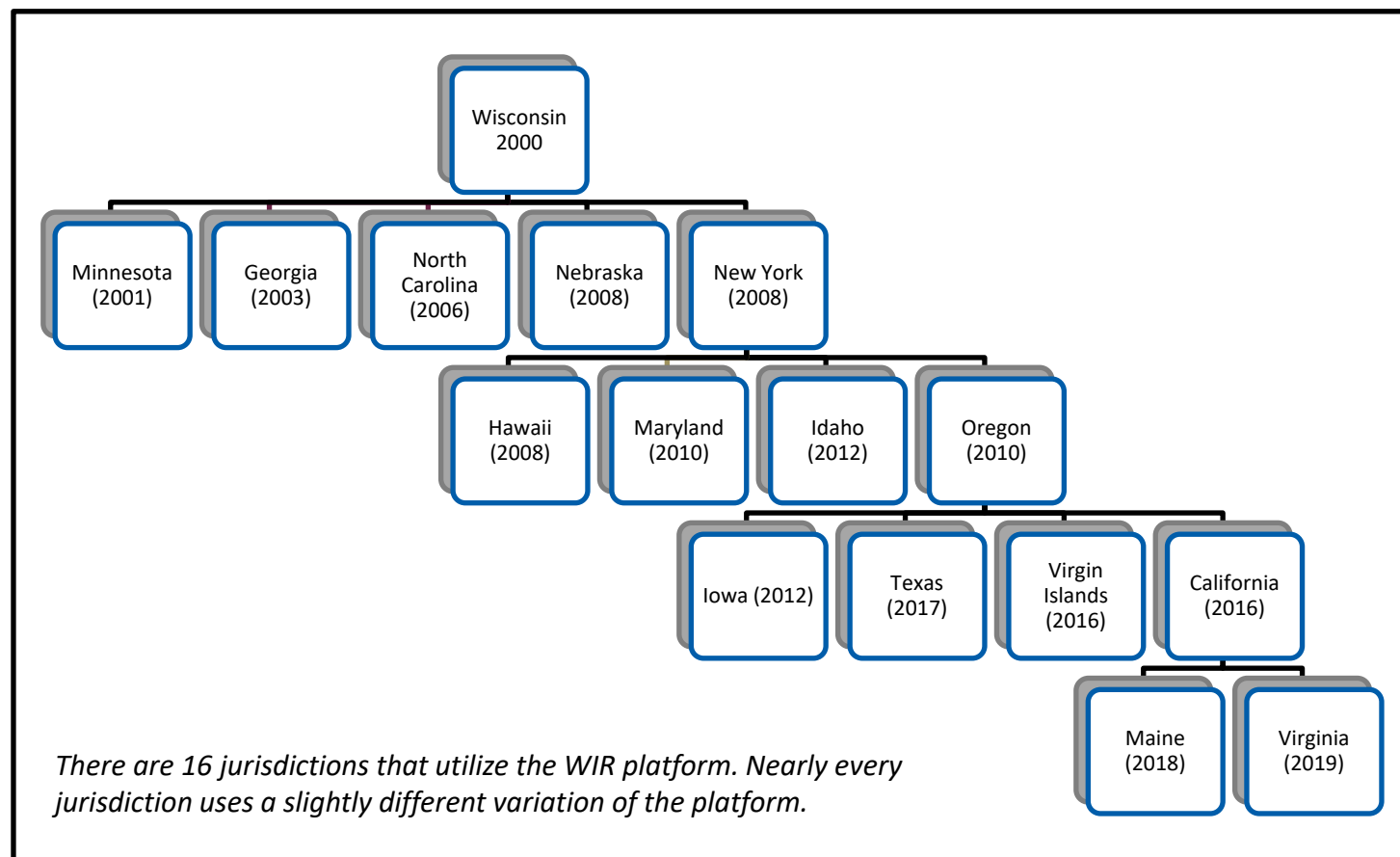
Agenda

	Topics
1	WIR Consortium History <ul style="list-style-type: none">• Overview of the WIR Consortium• WIR Consortium's goals and objectives
2	WIR Consortium Current Progress and Future Plans <ul style="list-style-type: none">• Product development• Long-term Consortium governance
3	Questions and Answers

WIR Consortium History

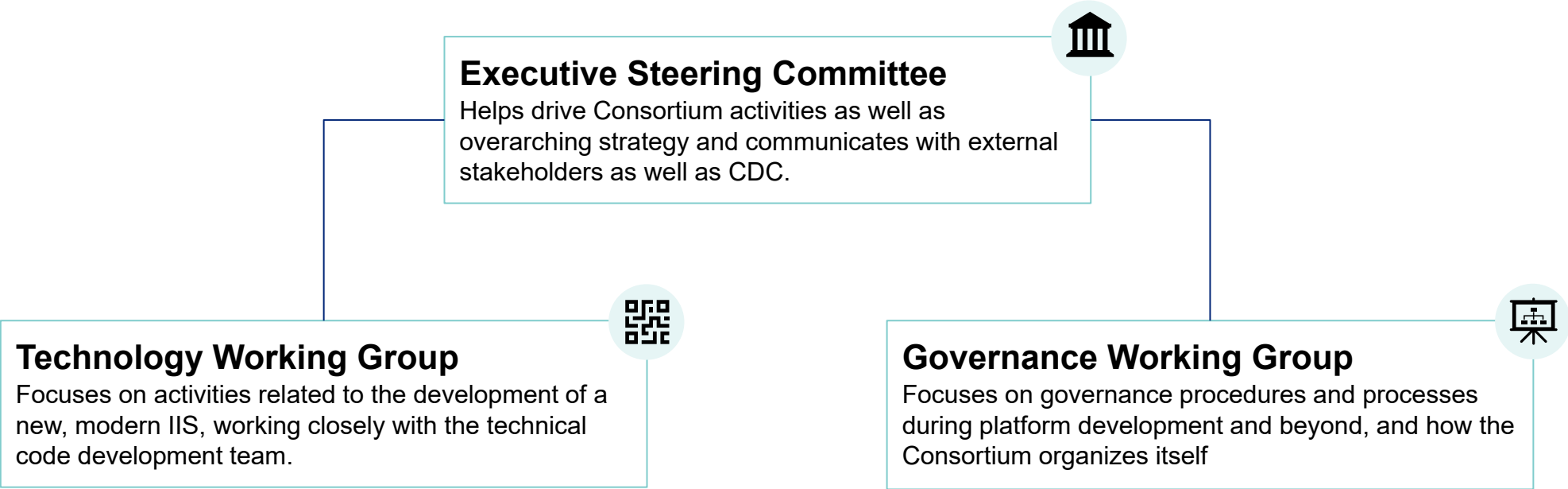
WIR Consortium Background

In 2019, the WIR Consortium was established when immunization program representatives from 16 jurisdictions that use the WIR platform came together to discuss how the WIR user group could create a more sustainable and innovative WIR platform as well as establish new ways to collaborate. After conducting an analysis of the existing platform, the Consortium determined that developing a brand-new technical code would help address security vulnerabilities, cost efficiencies, and data quality. The new code is being developed in phases by Myriddian.



WIR Consortium Background

The WIR Consortium is organized into Technology and Governance Working Groups and is led by an Executive Steering Committee and advised by CDC’s WIR Transformation Project Leadership.

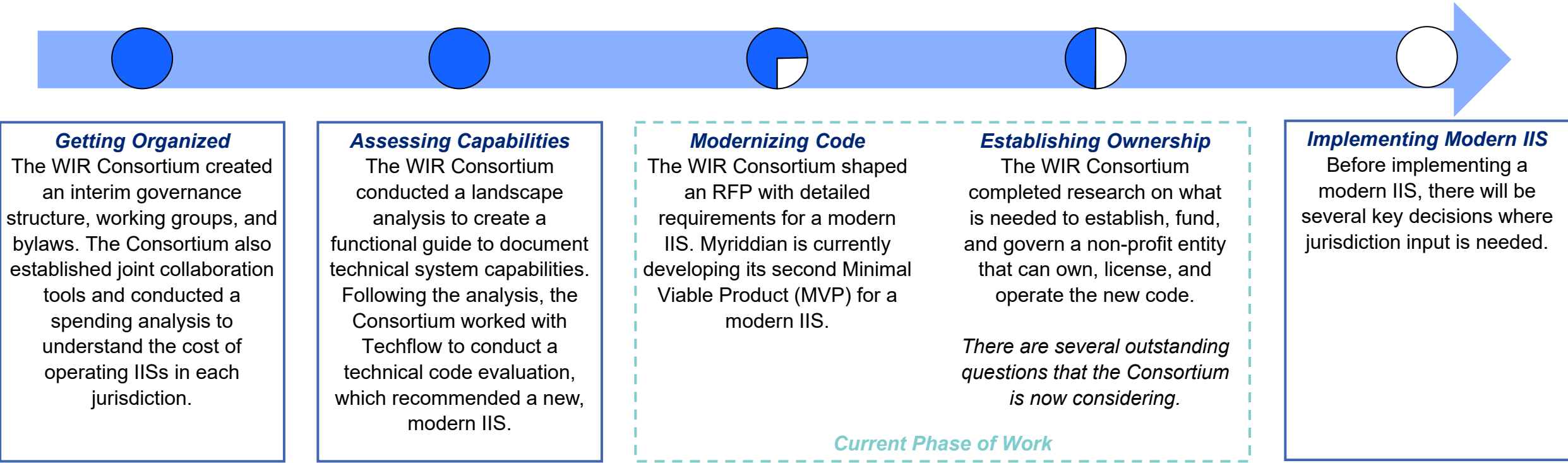


Current Consortium Support

-  **Technical Development**
-  **WIR Transformation Sponsor**
-  **Project Management Assistance**

WIR Consortium Roadmap

Since deciding to develop a new, modern IIS, the WIR Consortium has focused on ensuring (1) as many jurisdictions as possible help shape the development of the common code and ultimately adopt the product and (2) the Consortium is self-sufficient and independently operating by the time the code is ready for wide adoption (i.e., through the establishment of a non-profit entity).



WIR Consortium Current Progress

Modernizing the WIR Technical Code

Functional Requirements and Desired Characteristics of Code

The Consortium provided the following desired characteristics and functional requirements to Myriddian to shape the new, modern IIS.

Desired Characteristics



Supports Modularity
The system is designed to be plug-and-play and configurable for jurisdiction-specific functionality. This will allow flexibility in functional capability and help address cost concerns.



Promotes Rapid Deployment and Innovation
The application architecture allows awardees, vendors, and the IIS community to leverage and rapidly implement new technologies, such as Cloud and mobile capabilities, to enhance the IIS system performance.



Supports Efficient and Low Costs
The system adopts leading practices and standards. It efficiently uses limited resources to ensure proper development and maintenance in a centralized manner when possible.



Creates a Community of Collaboration
The system promotes a standardized development approach with limited restrictions on code sharing to allow for the greatest opportunity for knowledge and technology exchange.



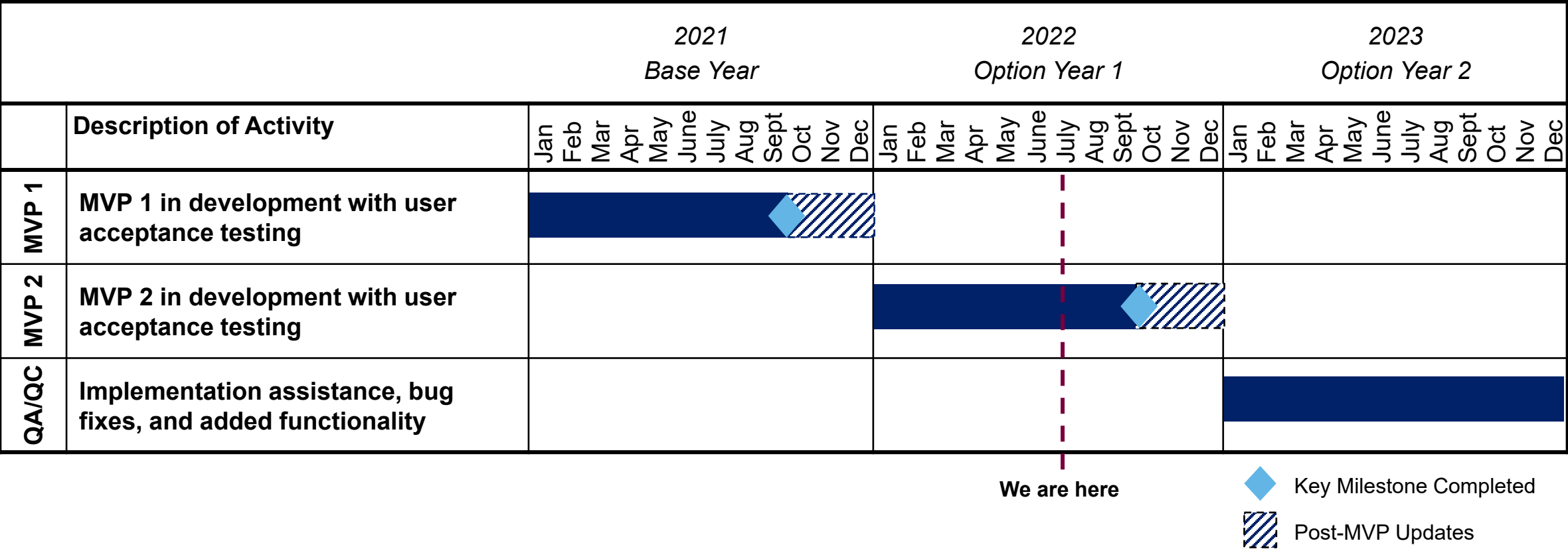
Increases Sustainability
The system supports scalability as well as performance and cost advantages for users.

Functional Requirements

Data Exchange <ul style="list-style-type: none">• Implementation of current HL7 Messaging Standards• Vaccine Code Maintenance and Monitoring	Client/Patient Management <ul style="list-style-type: none">• Patient Status	Data Quality and System Monitoring <ul style="list-style-type: none">• Data Deduplication• Data Encryption• System Monitoring
Provider Management <ul style="list-style-type: none">• Provider Onboarding Organizational• Management (Data Use Agreements)• Registration/ Enrollment Renewal	Interface <ul style="list-style-type: none">• Interface Based on user Roles	User Management <ul style="list-style-type: none">• System User Roles
Immunization Forecasting <ul style="list-style-type: none">• Forecasting/ Scheduling	Vaccine Program <ul style="list-style-type: none">• Vaccine Program Support• Vaccine Management and Inventory	Reporting <ul style="list-style-type: none">• Reminder-Recall• IQIP• IISAR Dashboard Reporting• Aggregate Analysis Reporting Tool (AART)

Notional Myriddian IIS Development Timeline

The new, modern IIS is being developed in phases with the initial development of the MVP that was completed Sept 2021, the development of MVP 2 with target completion Sept 2022, and refinement and/or additional enhancements, which may be included depending on availability of resources on the contract, to round out the third and final year (2023) of development.



Current Development Activities

The Consortium has participated in several development and design sessions to help shape the new modern WIR platform. The final product will be one that is a result of iterative feedback loops and discovery sessions that incorporates the needs of participating jurisdictions.



Workshops

Participation in discussion to further define the Consortium's vision for a modern IIS, such as discussion on leveraging existing resources that could alleviate development load



Design Sessions

Participation in Human Centered Design (HCD) sessions to understand preferences on user interface of a modern IIS system



Surveys

Participation in surveys to hear more broadly from the Consortium on select functionality, design and development decisions

Future Technology Plans - Complete Code Development

The Consortium's Technology Working group is planning to participate in upcoming development activities, specifically user acceptance testing (UAT).

Select functionalities/features for testing:

- Immunization Forecasting and Scheduling
- Mass Vaccination Module
 - Immunization Inventory Management
 - Immunization Ordering
- Consumer Access
- Organization Management
- User Management
- Vital Statistics Data Management
- Report Management
- Schools Module Testing

Additional Details



Testing will require approx. 1-2 hours of participating jurisdictions' time and is set to begin in late August.



No preparation is required, and there is no limit on the number of jurisdictions that can participate.



Testing feedback is critical and will be tracked iteratively where participants can provide comments and results for tested features

Future Technology Plans - System Migration Planning

The Consortium's Technology Working group is developing a plan to support jurisdictions members in system migration once the new code is ready for implementation.



Discuss plan for the consortium to support jurisdictions migrate to new system

- Working with product developers to discuss all the inputs and support levels needed for jurisdiction implementation and migration

ETA: Fall 2022



Develop system migration plan that includes Consortium support for jurisdiction migration

- Ensuring jurisdictions have tailored plans to support migration plans and system integration needs

ETA: Spring 2023



Migrate jurisdictions to new IIS system





















- Executing jurisdiction migration plans and supporting jurisdictions through the migration process with any technical/programmatic support needed

ETA: Fall 2023

Establishing Ownership and Governance Long-Term

Business Model Entity Selection

In 2020, the Consortium considered three business model options and ultimately determined that the non-profit business model option was most likely to succeed and achieve the WIR Consortium goals.

Goals	Non-Profit CDC and jurisdictions fund a non-profit that owns, operates, and licenses the common code, as well as executes project management.	Single Jurisdiction Jurisdictions pool funding for a single jurisdiction that is responsible for managing and licensing common code, as well as project management.	Third-Party Vendor Jurisdictions pool funding to directly contract a third-party vendor for common code development and project management.
 Enables Participation and Plans for the Future			
 Supports Sustainability and Operational Efficiencies			
 Creates a Community of Collaboration			
 Supports Modularity			
 Promotes Rapid Deployment and Innovation			

Non-Profit Research Report

The Consortium conducted research to further understand the processes for establishing, funding, and governing a non-profit organization.

Key Research Questions:

What type of business entity will the consortium need, and what mission should it fulfill?	What is the optimal organizational structure for the new non-profit?	How will the non-profit collectively manage the common code ?	What are the key financial components to fund the non-profit and inform a financial model?	What are the compliance requirements and steps to establish a non-profit?	How do the jurisdictions and CDC need to implement this approach? What are next steps?
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Takeaways from the Research Report:



Non-Profit Functions

- Manage the new, modern IIS and support Consortium business operations



Code Management

- Supports decision-making on architecture, licensing, and product roadmap decisions



Timeline

- Implementation is expected to take around 12-18 months

Non-Profit Research Report

The Consortium is committed to the establishment and implementation of a non-profit organization to serve as the long-term business model for the Consortium.



Define Governance-related questions and key decisions

March 2022



Develop a plan to address questions and decisions for the Consortium

June 2022



Organize the consortium to exercise plan and execute activities

August 2022

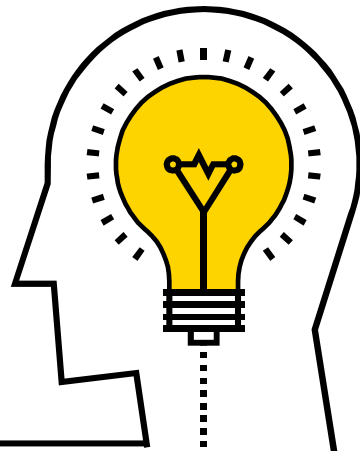
Example Objectives from June 2022 Plan:

- Identify non-profit establishment project lead and determine which jurisdictions will participate
- Define roles in non-profit as well as specific functions of the board of directors (and determine if board members can be compensated)
- Determine contracting and cost sharing mechanisms for jurisdictions, CDC, and vendor(s) for the new non-profit

Q&A Session

Discussion

Please feel free to come off mute and ask you questions. Please also feel free to share questions in chat or follow-up in email.



Appendix

Rationale for Development of Modern IIS Minimum Acceptable Product

An in-depth third-party technical code evaluation on two representative jurisdictions’ WIR platforms (California and Georgia) that found substantial code complexity and technical obsolescence issues, combined with previously known issues, informed the Consortium’s decision to develop a modern IIS MVP from scratch.

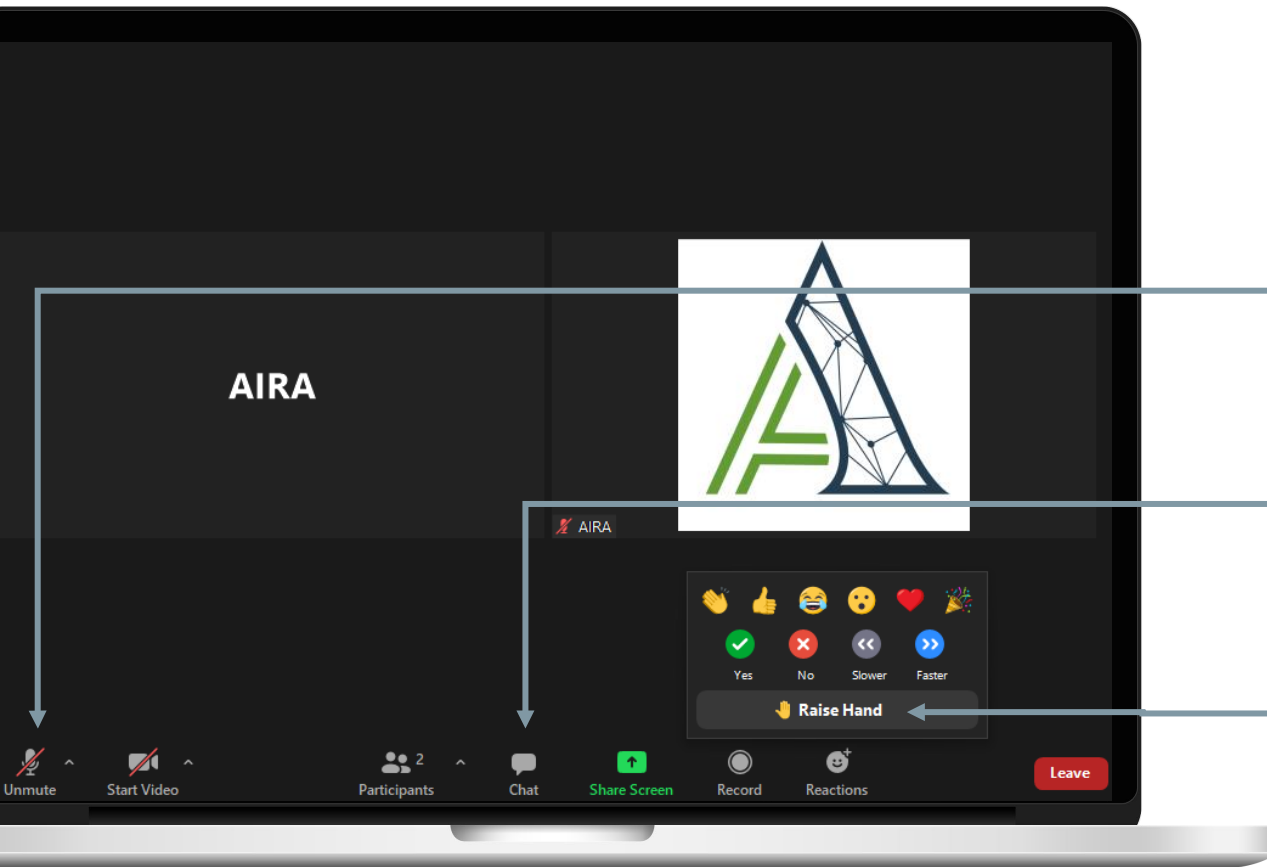
Code Evaluation Findings

- **The code is not modular and enhancements are uncoordinated**, effectively creating 16* independent systems; cost sharing for enhancements and maintenance is not currently possible
- **An estimated 25% of code is “dead”** or no longer used, resulting in unnecessary maintenance costs
- **Code is written in outmoded coding languages**; finding developers who can support these languages is becoming increasingly difficult and expensive
- **Overhauled security practices within the application are needed** to adequately protect public health information (PHI)

Code Evaluation Recommendation and Consortium Decision

- In an evaluation of automated techniques and expert reviews, the evaluation team found that rebuilding a modern code from scratch would be more efficient and cost effective than refactoring the existing code
- With support from the CDC, the Consortium released an RFP for technical requirements gathering and the development of a modern IIS minimum acceptable product

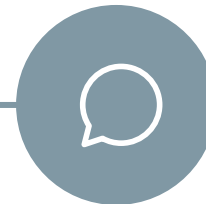
Question & Answer



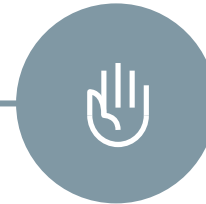
How do I ask a question?



Select the unmute icon and ask your question verbally.




Select the chat icon and type your question into the chat box.



Select the reactions icon, select "Raise Hand," and you will be called on.





Thank you to our presenters, and thanks to all of you for joining us!

Please complete a brief evaluation survey.

The next Discovery Session
will be on July 25, 2022