



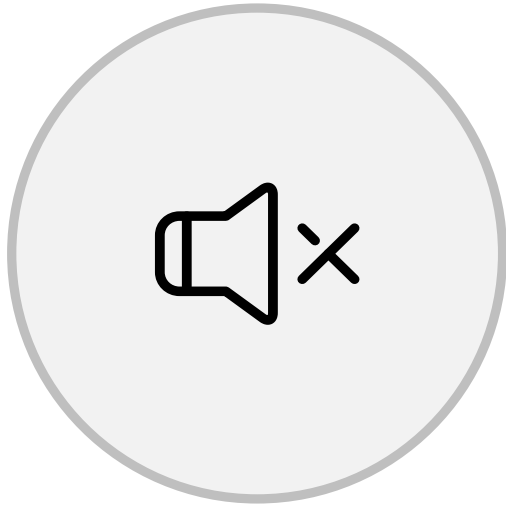
AIRA
AMERICAN IMMUNIZATION
REGISTRY ASSOCIATION

AIRA Discovery Session

The CDC Dashboard

February 4, 2019

Welcome



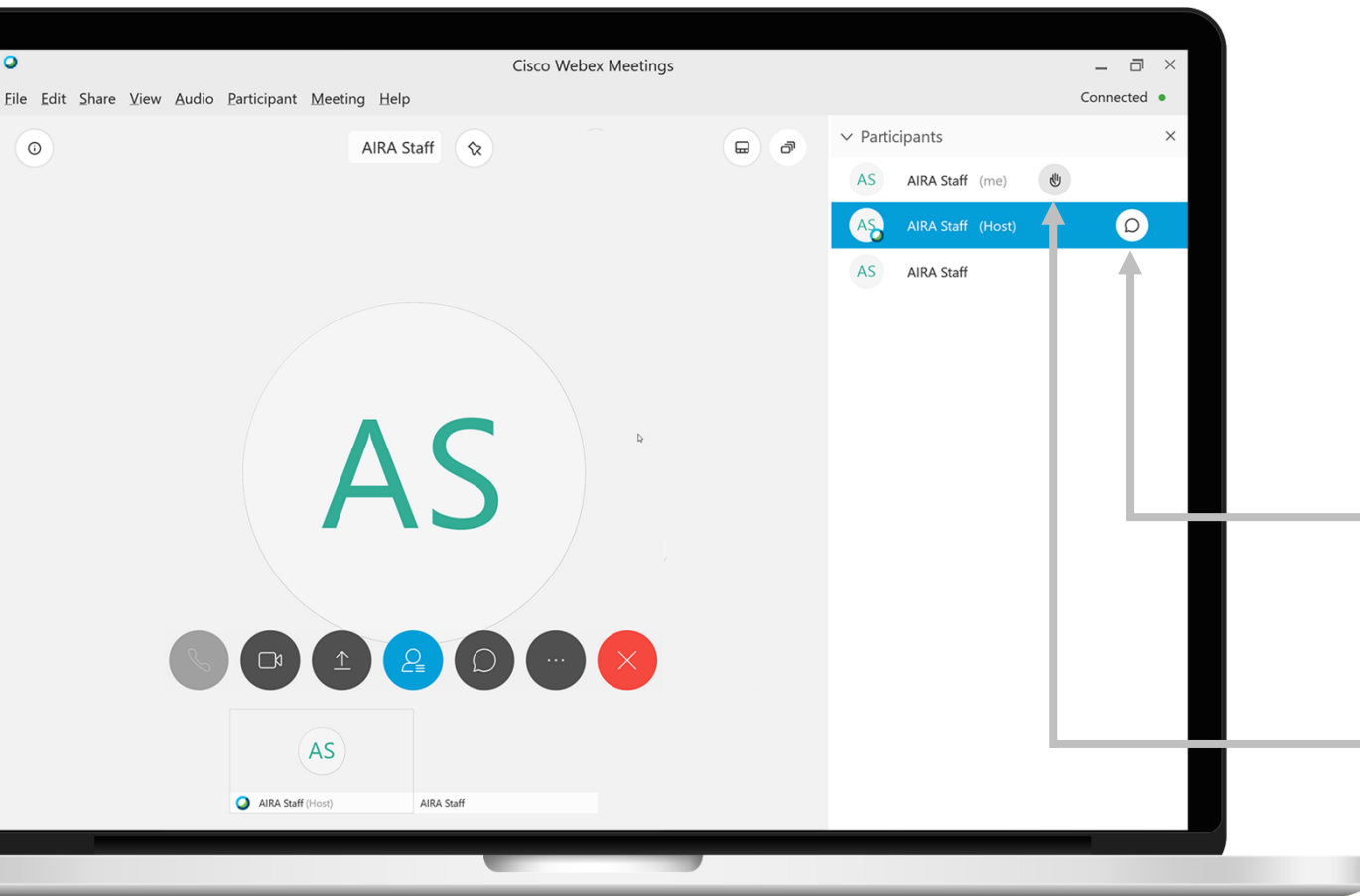
All phone lines
are muted



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

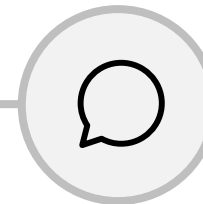


Welcome

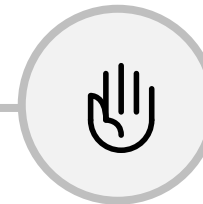


How do I ask a question?

- There will be time allotted for Q&A following the presentation, to unmute your line **press *6**
- Via WebEx:



Select the chat icon next to the host and type question into the chat box.



Select the hand icon next to your name and you will be called on.



Today's Topic

- The CDC Dashboard
 - What is it?
 - How can you access it?
 - How can it help with your planning for the year(s) ahead?



Press *6 to unmute your line



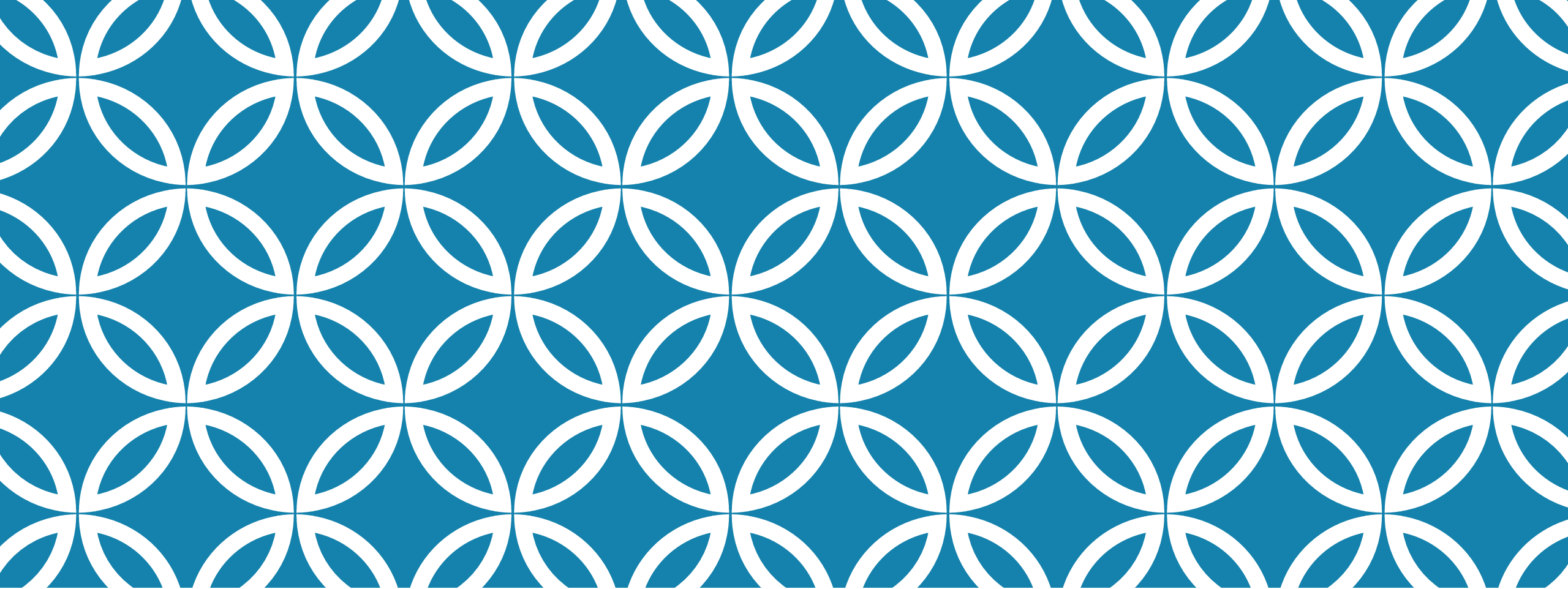
Today's Speakers

- Janet Fath – Operations Team Lead, IISSB, CDC
- Bobbie Strickland – Public Health Analyst, IISSB, CDC



Press *6 to unmute your line





STRENGTHENING THE IMMUNIZATION PROGRAM BY USING THE IIS DASHBOARD

Janet Fath
Bobbie Strickland

AGENDA

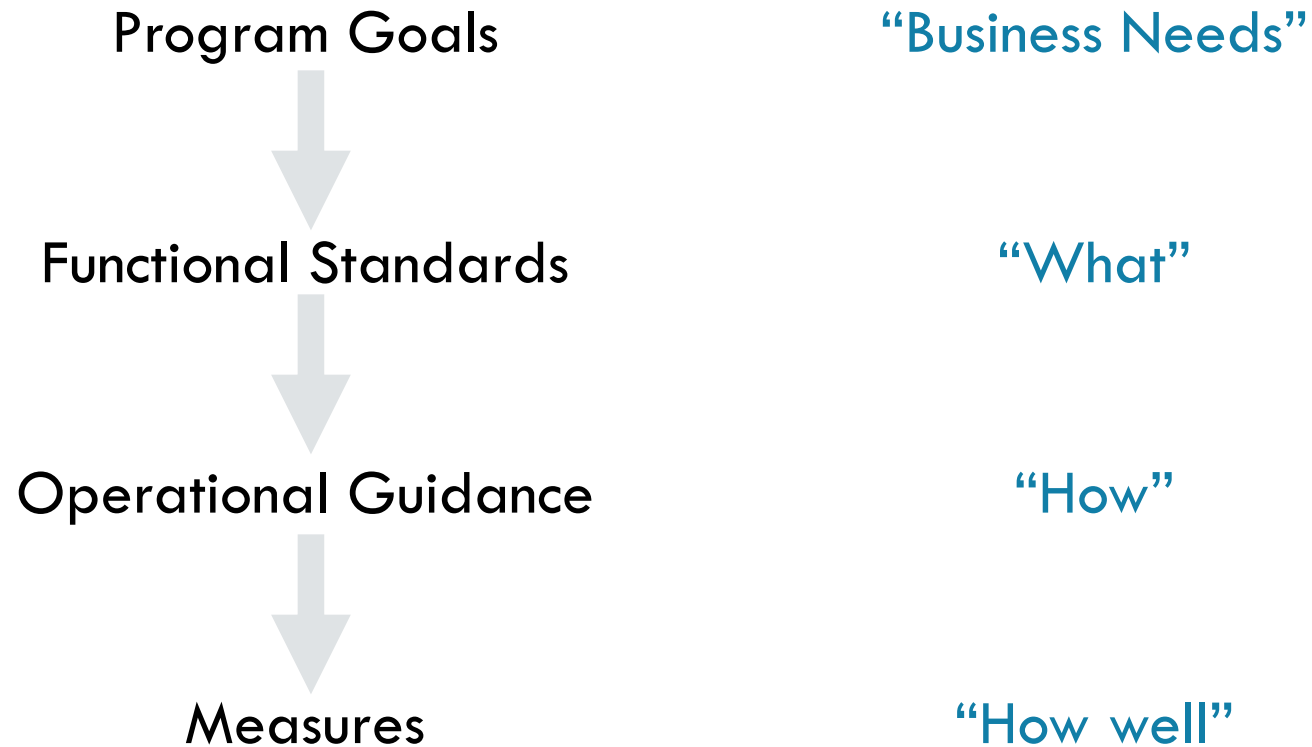
Background

- Functional Standards and the IISAR
- Observations about the new Cooperative Agreement

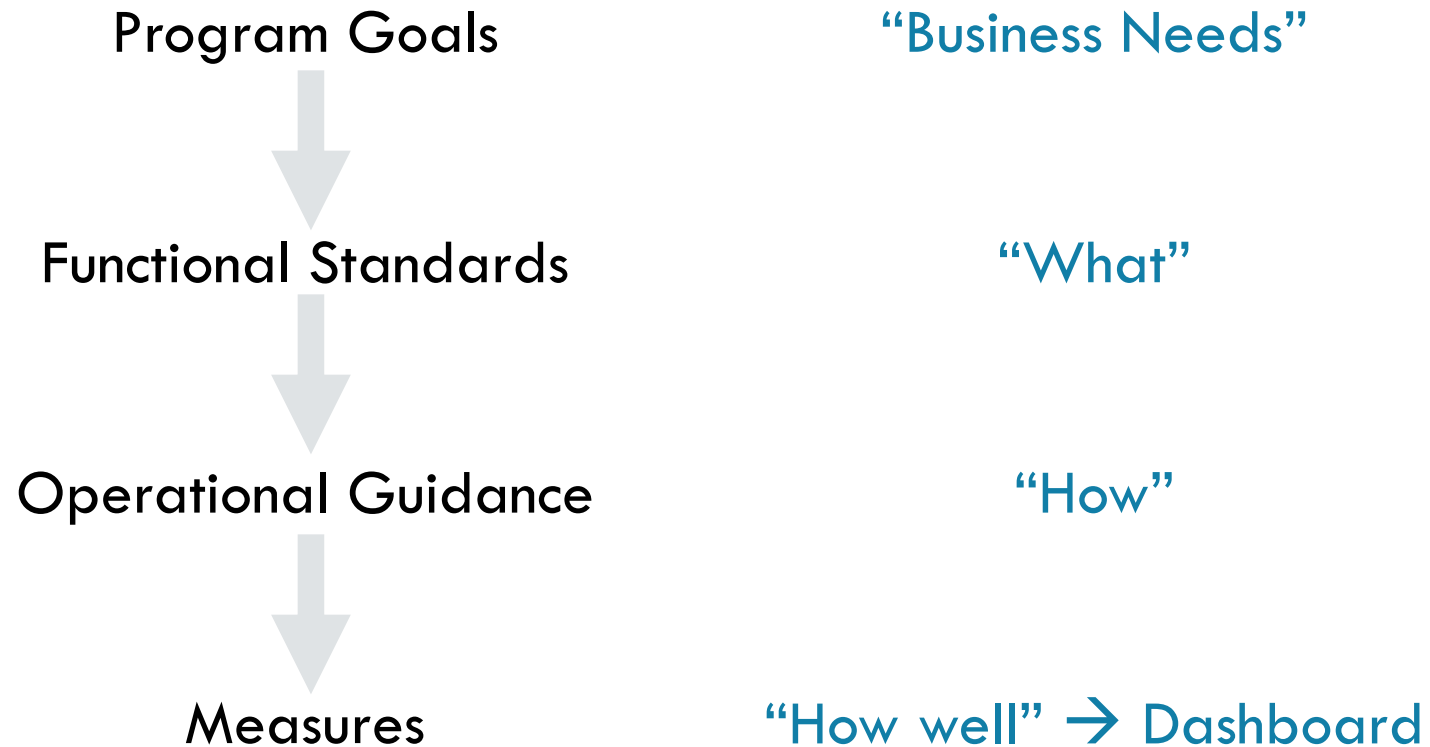
Using the IIS Dashboard to

- Gauge progress of your IIS in supporting all immunization program areas
- Help you plan activities and measures for the new Cooperative Agreement

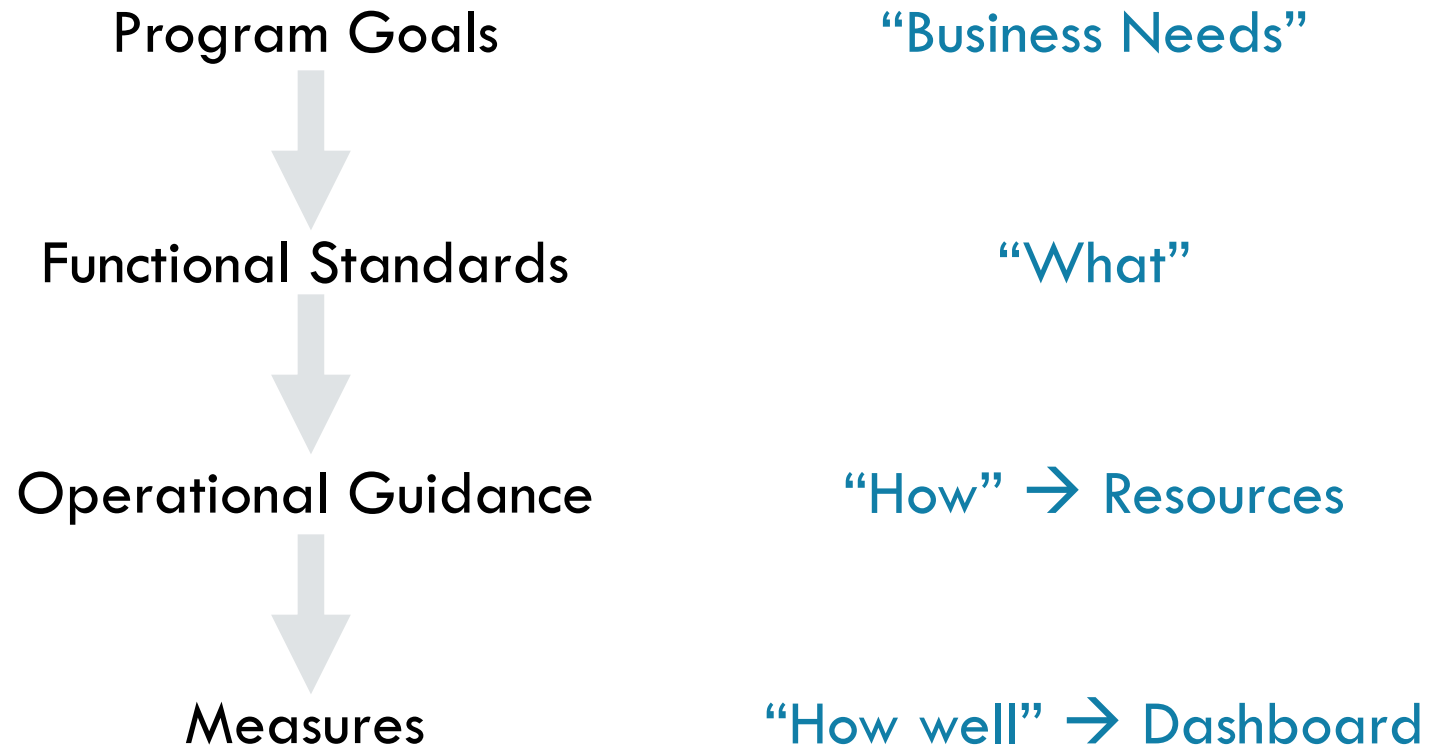
BACKGROUND: IIS FUNCTIONAL STANDARDS



BACKGROUND: IIS FUNCTIONAL STANDARDS



BACKGROUND: IIS FUNCTIONAL STANDARDS



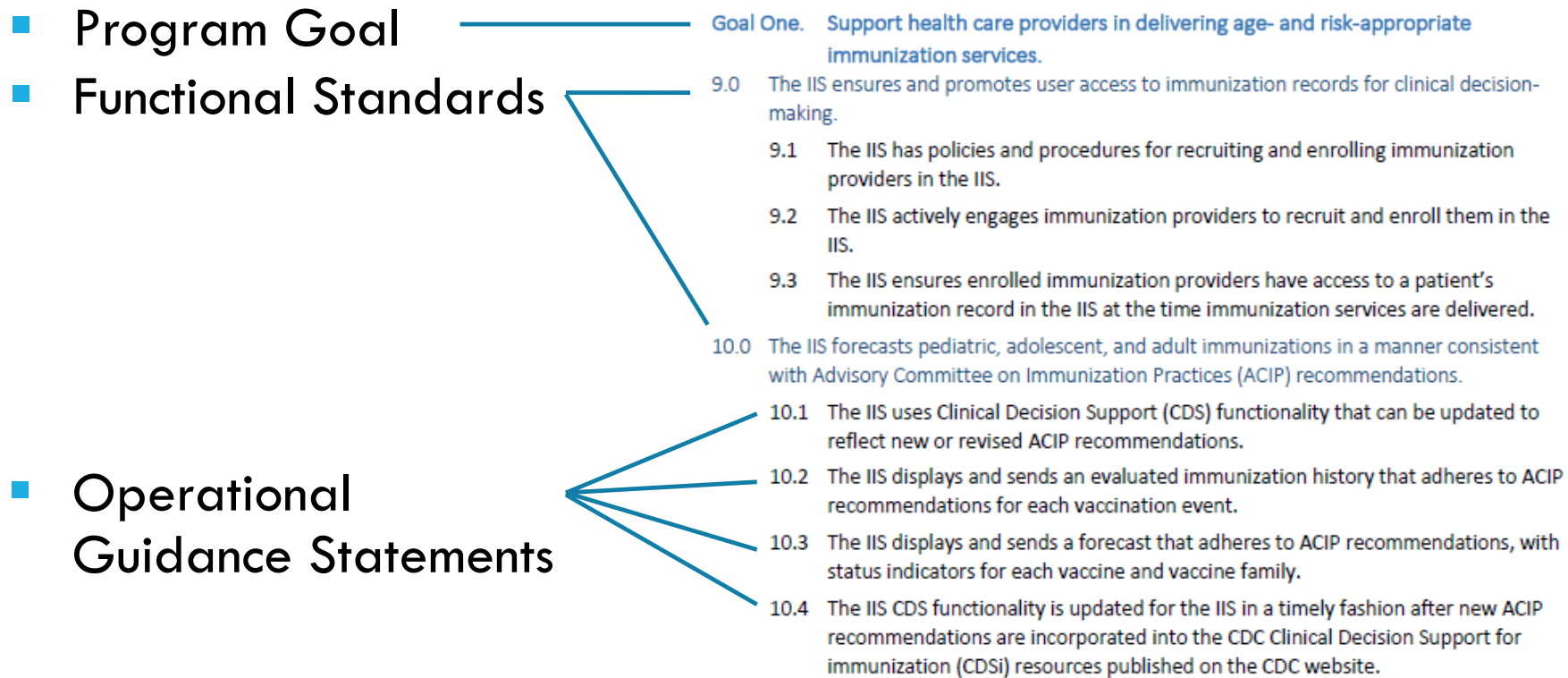
BACKGROUND: PROGRAM GOALS

Four Program Goals

1. Support health care providers in delivering age- and risk-appropriate immunization services.
2. Support the control and management of vaccine-preventable disease outbreaks.
3. Support and inform stakeholder efforts to improve immunization rates.
4. Support health care providers in meeting the requirements of the Vaccines for Children (VFC) program and state and local vaccine programs.

Essential Infrastructure Standards

SAMPLE GOAL, STANDARDS, AND OPERATIONAL GUIDANCE STATEMENTS



Most OGS have at least one measure

BACKGROUND

IISAR

- Annual survey that assesses immunization program performance in developing, maintaining, and enhancing Immunization Information Systems activities for a given calendar year
- Reporting requirement for the 64 immunization programs that receive funding under section 317b of the Public Health Service Act
- Self-reported, self-validated survey administered by CDC and answered by immunization program awardees
- CDC's primary source for measuring progress toward achieving the functional standards
- IISAR Data Query Tool

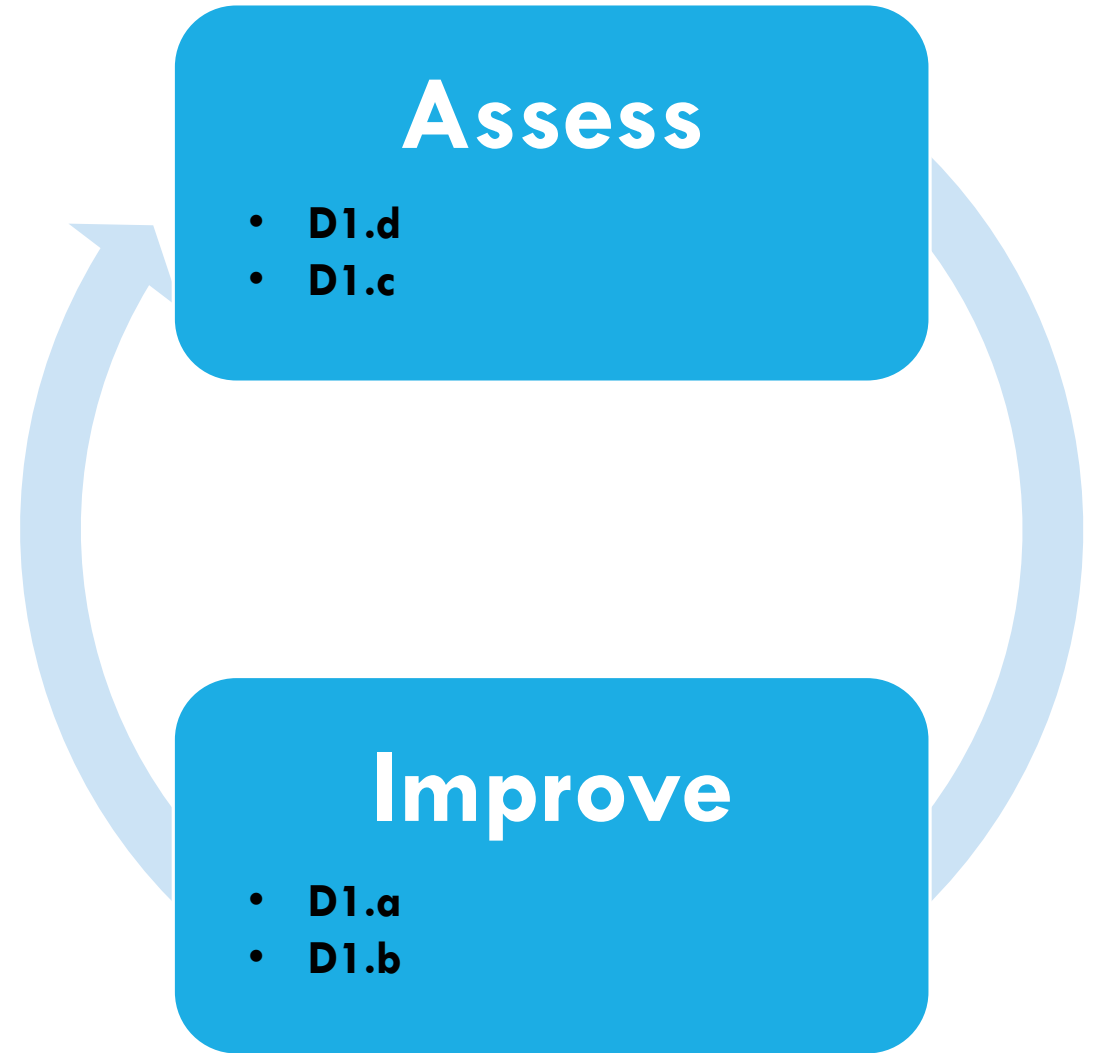
BACKGROUND IISAR QUERY TOOL

- References Functional Standards and OGS
- Essentially a copy of each individual awardee IISAR responses

Child Participation in IIS (aged 4 months through 5 years)	
Logic Guidance: <ul style="list-style-type: none">For children born from January 1, 2011 through August 31, 2016.	
Enrollment: <ul style="list-style-type: none">Include:<ul style="list-style-type: none">Children enrolled in the IIS, regardless of having only travel vaccines, only non-vaccine products, or no vaccines in the vaccine record.Exclude:<ul style="list-style-type: none">Children with addresses outside of your state or geopolitical area. Geopolitical area is defined as the area that contains the	
Participation: <ul style="list-style-type: none">Include:<ul style="list-style-type: none">All doses (valid and invalid) administered before January 1, 2017, including those recorded in the IIS after December 31, 2016.Exclude:<ul style="list-style-type: none">Children with addresses outside of your state or geopolitical area. Geopolitical area is defined as the area that contains the population of children residing in the geopolitical location covered by the IIS.	
29. Number of children aged 4 months through 5 years in the geopolitical area (2016 Census data)	225320
30. Child enrollment: Number of children aged 4 months through 5 years (born from January 1, 2011 through Aug 31, 2016) in both in your geopolitical area AND in your IIS	238518
a. Proportion of children aged 4 months through 5 years in both your geopolitical area AND in your IIS (Q.30/Q.29).	106%
31. Child participation: Number of children in question 30 (children born from January 1, 2011 through Aug 31, 2016 that are both in your geopolitical area AND in your IIS) that have 2 or more immunizations recorded in your IIS (Healthy People 2020 Objective)	225027
a. Proportion of children aged 4 months through 5 years in your geopolitical area and IIS that have 2 or more immunizations recorded in your IIS (Q.31/Q.29)	100%

IPOM Chapter D: IIS and Technology

Strategy D1: Advance immunization information system (IIS) capabilities by implementing the CDC IIS Functional Standards to support public health objectives among children aged 0-18 years.





FOUNDATIONAL CAPABILITIES

Coverage estimates for childhood vaccinations (i.e., jurisdictional and provider-based)

Childhood data completeness (0-18)

Pediatric Clinical Decision Support (CDSi) for immunizations

Bidirectional data exchange with Electronic Health Record Systems (EHR-S) within the awardee's jurisdiction using published CDC standards

ARTIFACTS TO INFORM ASSESSMENT

IISAR (on PAPA)

Child Participation in IIS (aged 4 months through 5 years)

Logic Guidance:

For children born from January 1, 2011 through August 31, 2016.

Enrollment:

Include:

Children enrolled in the IIS, regardless of having only travel vaccines, only non-vaccine products, or no vaccines in the vaccine record.

Exclude:

Children with addresses outside of your state or geopolitical area. Geopolitical area is defined as the area that contains the

Participation:

Include:

All doses (valid and invalid) administered before January 1, 2017, including those recorded in the IIS after December 31, 2016.

Exclude:

Children with addresses outside of your state or geopolitical area. Geopolitical area is defined as the area that contains the population of children residing in the geopolitical location covered by the IIS.

29. Number of children aged 4 months through 5 years in the geopolitical area (2016 Census data)

223320

30. Child enrollment: Number of children aged 4 months through 5 years (born from January 1, 2011 through Aug 31, 2016) in both in your geopolitical area AND in your IIS

238518

a. Proportion of children aged 4 months through 5 years in both your geopolitical area AND in your IIS (Q.30/Q.29).

106%

31. Child participation: Number of children in question 30 (children born from January 1, 2011 through Aug 31, 2016 that are both in your geopolitical area AND in your IIS) that have 2 or more immunizations recorded in your IIS (Healthy People 2020 Objective)

225027

a. Proportion of children aged 4 months through 5 years in your geopolitical area and IIS that have 2 or more immunizations recorded in your IIS (Q.31/Q.29)

100%

IIS Dashboard

Immunization Information Systems (IIS) Dashboard (Test Awardee) Individual Awardee Progress Report

Query Parameters

Selected FS/OGS Group: Coverage Estimates
Targets Displayed: All Targets
Timeframe: 2017

Legend

⊗ Targets not achieved
★ Targets achieved
N/A Exempt

For resources to learn about and meet the IS Functional Standards, refer to the [IS Functional Standards Resource Guide](#).
To change report parameters, click the "Change Query Parameters" button. Refer to the [IS Dashboard User Manual](#) for detailed instructions.

Functional Standards / Measures	Year: 2017	2017 Target Achieved	2017 Target	% Awardees Meeting Target in 2017
1.0 The IS contains complete and timely demographic and immunization data for children, adolescents, and adults residing or immunized within its jurisdiction.				
1.1.1 Percentage of children born and residing in the IS's jurisdiction in the last year that had a record established in the IS within 60 days of birth.	96.1%	★	85%	65%
1.1.2 Percentage of children born and residing in the IS's jurisdiction in the last year that had a record established in the IS within 45 days of birth.	95.8%	★	85%	42%
1.1.3 Percentage of children born and residing in the IS's jurisdiction in the last year that had a record established in the IS within 30 days of birth.	95.2%	⊗	100%	85%
1.1.4 Percentage of children that were born in the calendar year that reside in the IS's jurisdiction that have a demographic record in the IS.	100.2%	★	85%	65%
1.2.1 The IS identifies records created from vital records.	Yes	★	Yes	96%
1.3.1 Difference between IIS coverage estimate for children aged 19-35 months who received the 7-vaccine series and the respective NIS coverage estimate.	Exempt	N/A	N/A	85%
1.3.2 Difference between IIS coverage estimate for adolescents aged 13-17 years who received Td/Tdap and the respective NIS Teen coverage estimate.	Exempt	N/A	N/A	65%
1.3.3 Difference between IIS coverage estimate for adults aged 18 years and over who received an influenza vaccination and the respective BRFSS coverage estimate.	Exempt	N/A	N/A	80%
1.3.4 Percentage of children aged 0-6 years residing in the IS jurisdiction that are enrolled in the IS.	100.2%	★	85%	65%
1.3.5 Percentage of children and adolescents aged 0-18 years residing in the IS jurisdiction that are enrolled in the IS.	96.1%	★	85%	65%
1.3.6 Percentage of children, adolescents, and adults (lifespan) residing in the IS jurisdiction that are enrolled in the IS.	No Data	⊗	Yes	80%

AIRA Measurement and Improvement

Stages

Phases

	Testing and Discovery Stage	Assessment Stage	Validation Stage
Transport			
Submission/ ACK			
Query/ Response			
CDS			
Data Quality (6)			
Functions (e.g. AFIX)			
Policy			
Security			

ARTIFACTS TO INFORM IMPROVEMENT

IIS Dashboard

Immunization Information Systems (IIS) Dashboard (Test Awardee) Individual Awardee Progress Report

Query Parameters

Selected FSI/OGS Group: Coverage Estimates
Targets Displayed: All Targets
Timeframe: 2017

Legend

- ⊗ Targets not achieved
- ★ Targets achieved
- N/A Exempt

For resources to learn about and meet the IIS Functional Standards, refer to the [IIS Functional Standards Resource Guide](#).

To change report parameters, click the "Change Query Parameters" button. Refer to the [IIS Dashboard User Manual](#) for detailed instructions.

Functional Standards / Measures	Year: 2017	2017 Target Achieved	2017 Target	% Awardees Meeting Target in 2017
1.0 The IIS contains complete and timely demographic and immunization data for children, adolescents, and adults residing or immunized within its jurisdiction.				
1.1.1 Percentage of children born and residing in the IS's jurisdiction in the last year that had a record established in the IS within 60 days of birth.	96.1%	★	85%	65%
1.1.2 Percentage of children born and residing in the IS's jurisdiction in the last year that had a record established in the IS within 45 days of birth.	95.8%	★	85%	42%
1.1.3 Percentage of children born and residing in the IS's jurisdiction in the last year that had a record established in the IS within 30 days of birth.	95.2%	⊗	100%	85%
1.1.4 Percentage of children that were born in the calendar year that reside in the IS's jurisdiction that have a demographic record in the IS.	100.2%	★	85%	65%
1.2.1 The IS identifies records created from vital records.	Yes	★	Yes	96%
1.3.1 Difference between IS coverage estimate for children aged 19-35 months who received the 7-vaccine series and the respective NIS coverage estimate.	Exempt	N/A	N/A	85%
1.3.2 Difference between IS coverage estimate for adolescents aged 13-17 years who received Td/Tdap and the respective NIS Teen coverage estimate.	Exempt	N/A	N/A	65%
1.3.3 Difference between IS coverage estimate for adults aged 18 years and over who received an influenza vaccination and the respective BRFSS coverage estimate.	Exempt	N/A	N/A	80%
1.3.4 Percentage of children aged 0-6 years residing in the IS jurisdiction that are enrolled in the IS.	100.2%	★	85%	65%
1.3.5 Percentage of children and adolescents aged 0-18 years residing in the IS jurisdiction that are enrolled in the IS.	96.1%	★	85%	65%
1.3.6 Percentage of children, adolescents, and adults (lifespan) residing in the IS jurisdiction that are enrolled in the IS.	No Data	⊗	Yes	80%

Functional Standards Resources

Immunization Information System (IIS) Functional Standards Version 4.0 Resource Guide

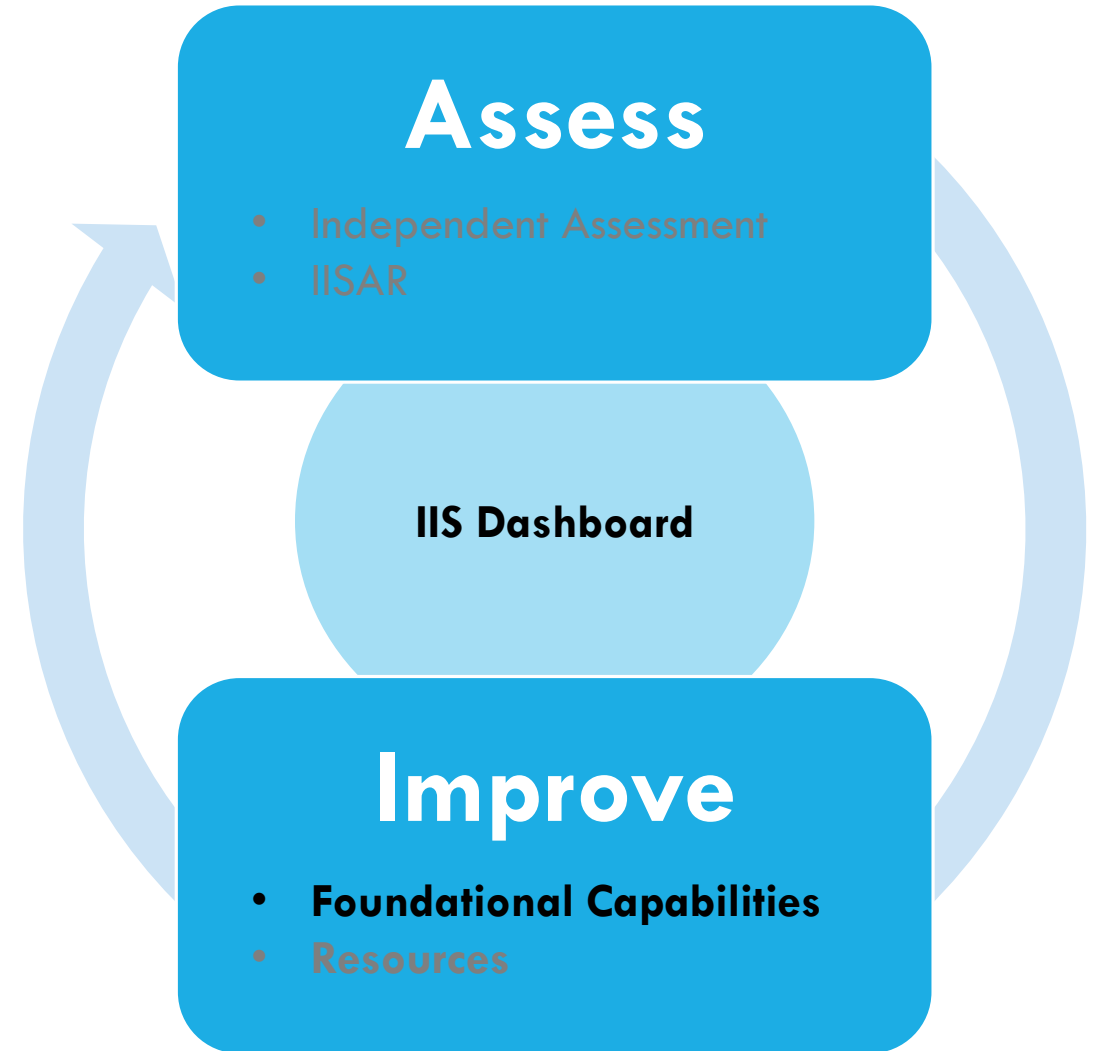
Functional Standard	Primary Resources	AIRA Repository Key Words
1.0 The IIS contains complete and timely demographic and immunization data for children, adolescents, and adults residing or immunized within its jurisdiction.	<p>Introductory</p> <ul style="list-style-type: none">Data Quality for IIS – no-cost, interactive training that requires setting up an account with PHIL <p>Advanced/Technical</p> <ul style="list-style-type: none">HL7 Version 2.5.1 Implementation Guide for Immunization Messaging, Release 1.5HL7 Version 2.5.1 Implementation Guide for Immunization Messaging (Release 1.5) – AddendumData Quality Assurance in Immunization Information Systems; Selected AspectsData Quality Assurance in Immunization Information Systems; Incoming DataGuidance for HL7 ACK Messages to Support InteroperabilityAIRA Data Validation Guide – for the IIS Onboarding Process	<ul style="list-style-type: none">Data quality assurance
2.0 The IIS identifies, prevents, and resolves duplicated and fragmented patient records using an automated process.	<p>Introductory</p> <ul style="list-style-type: none">Consolidating Demographic Records and Vaccination Event Records – mini guide <p>Advanced/Technical</p> <ul style="list-style-type: none">Consolidating Demographic Records and Vaccination Event Records – full guideImmunization Information Systems Patient-Level De-Duplication Best PracticesThe Unique Records Portfolio	<ul style="list-style-type: none">DeduplicationConsolidation
3.0 The IIS identifies, prevents, and resolves duplicate vaccination events using an automated process.	<p>Introductory</p> <ul style="list-style-type: none">Consolidating Demographic Records and Vaccination Event Records – mini guideVaccination Level De-duplication in Immunization Information Systems – mini guide <p>Advanced/Technical</p> <ul style="list-style-type: none">Consolidating Demographic Records and Vaccination Event Records – full guideVaccination Level Deduplication in Immunization Information Systems – full guide	<ul style="list-style-type: none">DeduplicationConsolidation

IPOM Chapter D: IIS and Technology

Strategy D1: Advance immunization information system (IIS) capabilities by implementing the CDC IIS Functional Standards to support public health objectives among children aged 0-18 years.

Activity D1a: Advance immunization information system (IIS) capabilities by implementing the CDC IIS Functional Standards to support public health objectives among children aged 0-18 years.

Approach: Develop plans that address progress on **Foundational Capabilities** before planning to take on additional development activities; consult the **Dashboard** to determine steady state areas (targets achieved) versus where improvements are needed (targets not met)

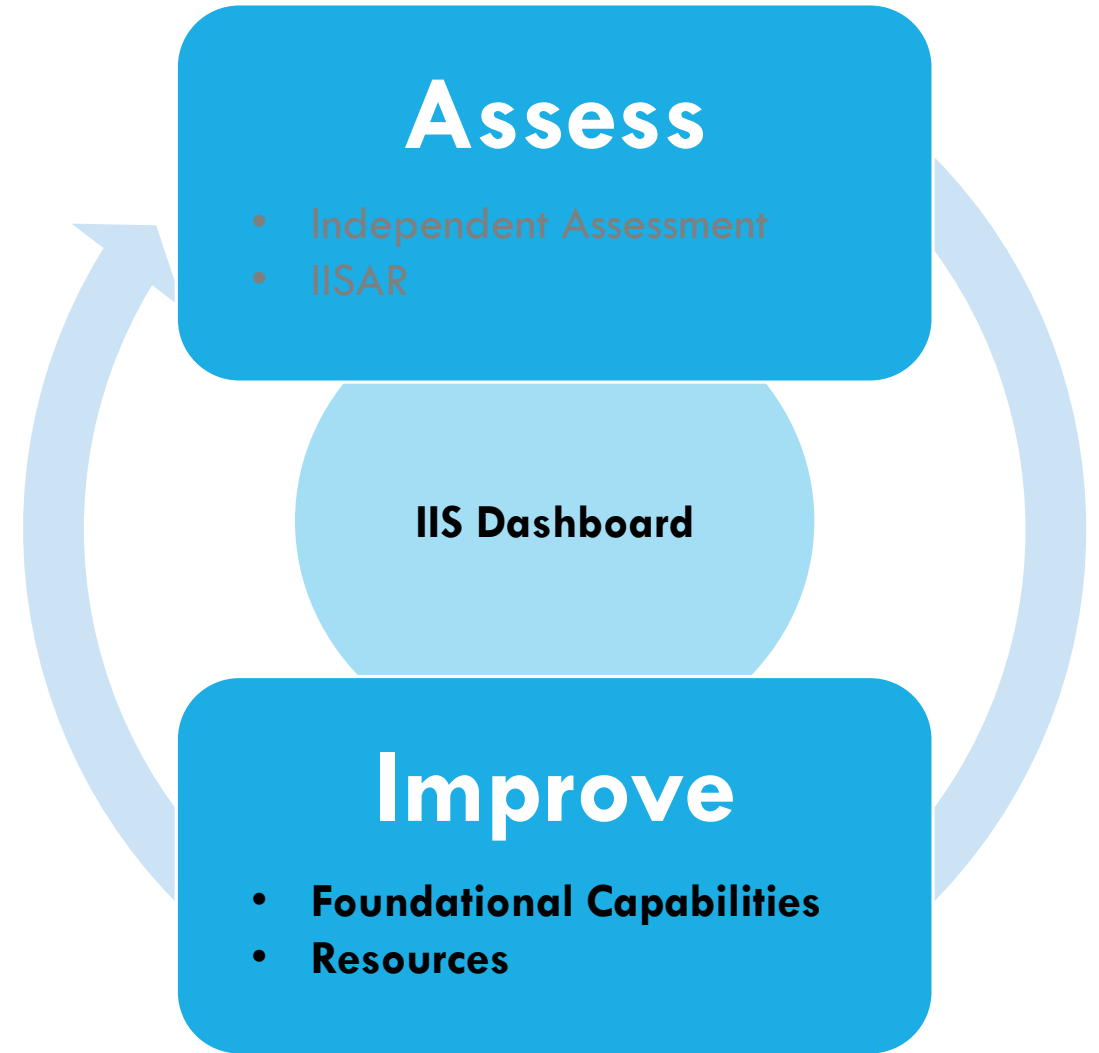


IPOM Chapter D: IIS and Technology

Strategy D1: Advance immunization information system (IIS) capabilities by implementing the CDC IIS Functional Standards to support public health objectives among children aged 0-18 years.

Activity D1b: Use IIS standards and best practices to implement new functionality and improve existing functionality.

Approach: Use **Foundational Capabilities**, along with the **Dashboard** and **Resources** to focus efforts on continuing with successful implementations and improving items where targets are not met. Best practices and guidance from the Resources document will assist when writing requirements documents, for example.

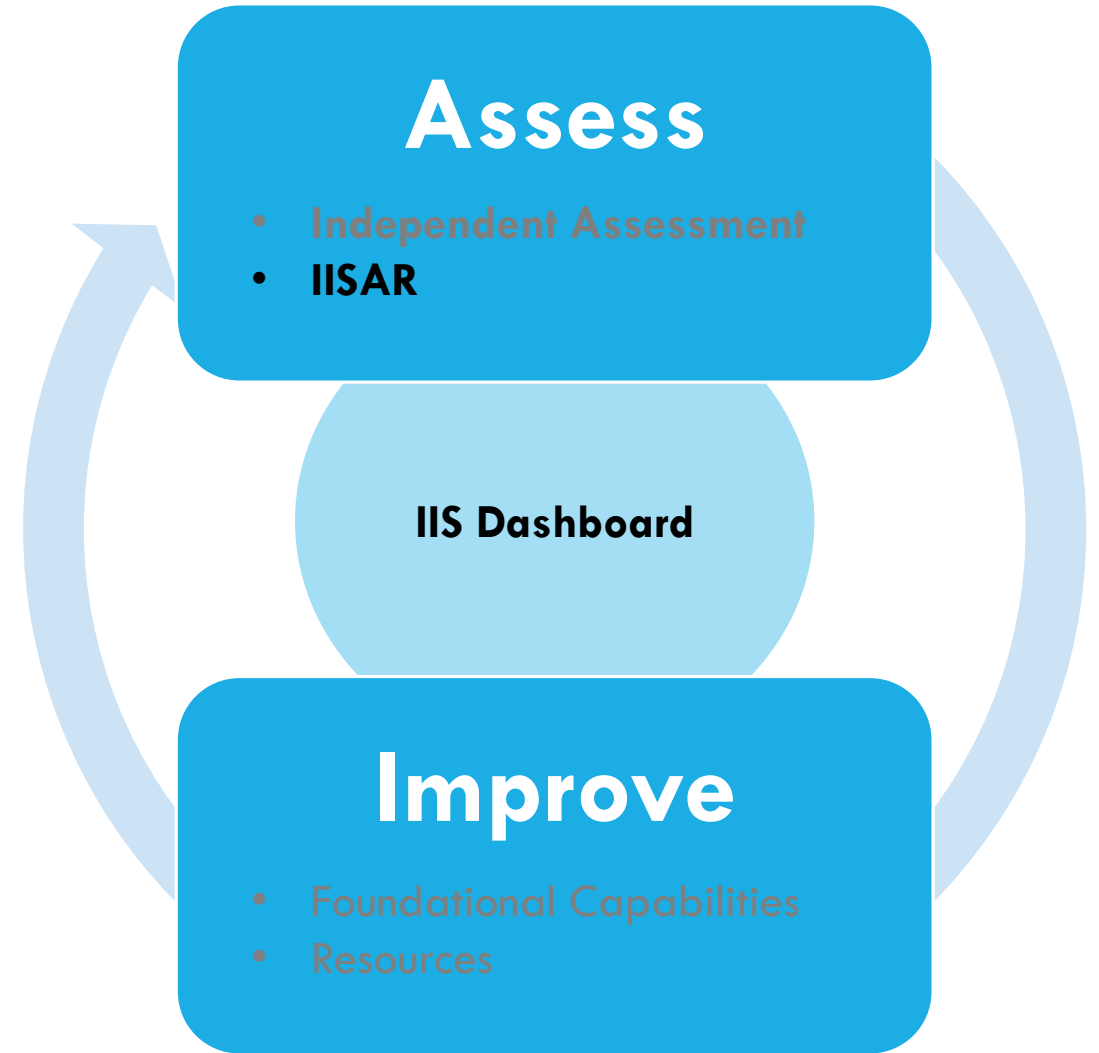


IPOM Chapter D: IIS and Technology

Strategy D1: Advance immunization information system (IIS) capabilities by implementing the CDC IIS Functional Standards to support public health objectives among children aged 0-18 years.

Activity D1d: Complete the IIS annual report and collaborate with CDC to participate in pre- and post-submission quality control activities to verify results.

Approach: Provide complete and accurate data on the **IISAR**; cooperate with CDC's independent verification initiative as requested.

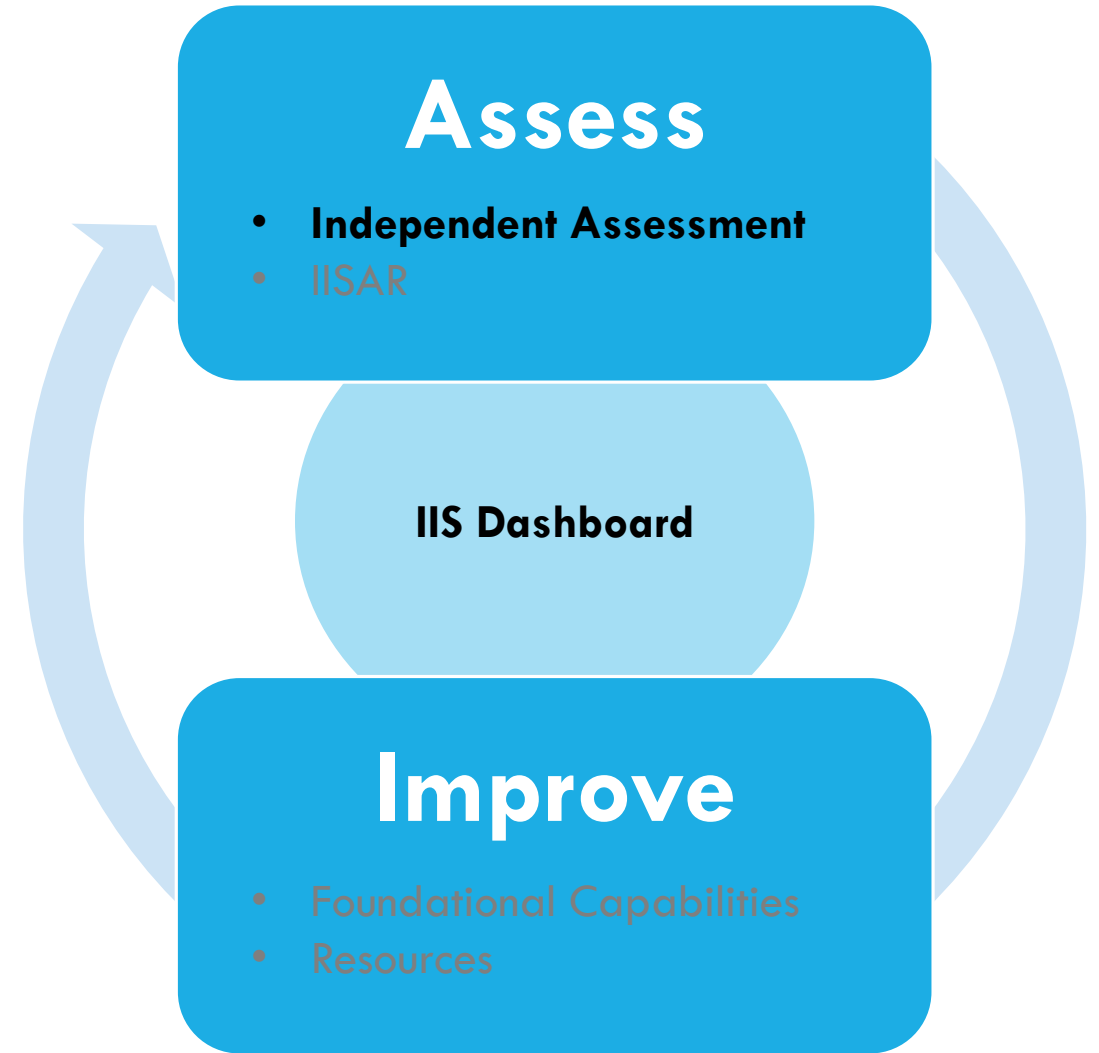


IPOM Chapter D: IIS and Technology

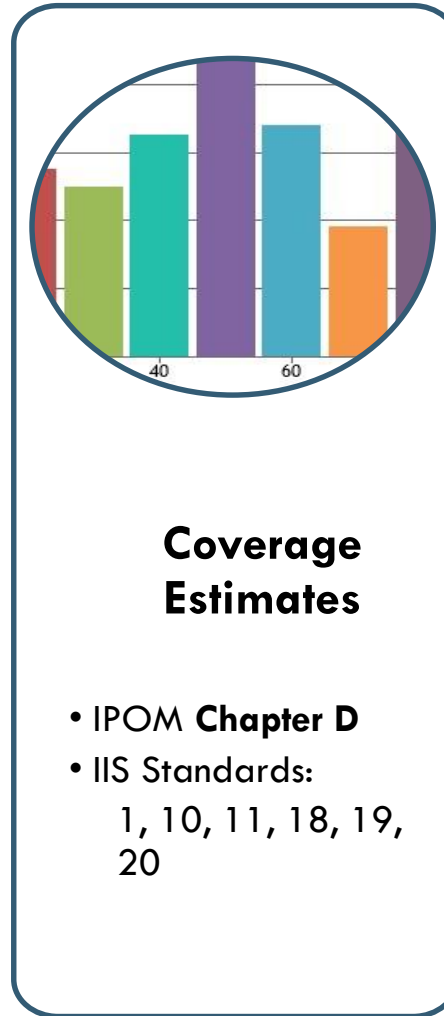
Strategy D1: Advance immunization information system (IIS) capabilities by implementing the CDC IIS Functional Standards to support public health objectives among children aged 0-18 years.

Activity D1c: Participate in objective, independent assessments of IIS functionality and data quality and implement system and program improvements based on assessment results.

Approach: Participate in **AIRA's Measurement and Improvement Initiative**; consider participating in the NIS-IIS Match project.



EXAMPLES OF IIS LINKAGES TO PROGRAM OPERATIONS



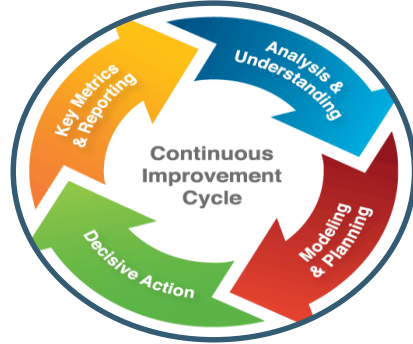
Foundational Capabilities: Coverage estimates for childhood vaccinations, childhood data completeness (0-18), pediatric Clinical Decision Support for Immunizations, standards-based bi-directional exchange with EHRs

EXAMPLES OF IIS LINKAGES TO PROGRAM OPERATIONS



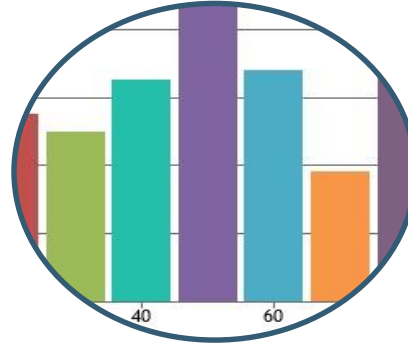
Vaccine Access & Management

- IPOM **Chapter C**
- IIS Standards:
1, 9, 23, 25, 26



Provider Quality Improvement

- IPOM **Chapter F**
- IIS Standards:
1, 9, 11, 12, 18



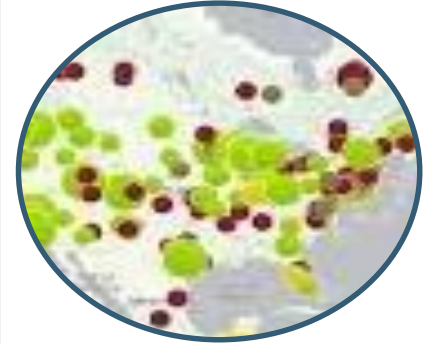
Coverage Estimates

- IPOM **Chapter D**
- IIS Standards:
1, 10, 11, 18, 19, 20



Program Effectiveness

- IPOM **Chapter B**
- IIS Standards:
1, 10, 11, 12, 18, 19



Pandemic Preparedness

- IPOM **Chapter I**
- IIS Standards:
11, 12, 14

Foundational Capabilities: Coverage estimates for childhood vaccinations, childhood data completeness (0-18), pediatric Clinical Decision Support for Immunizations, standards-based bi-directional exchange with EHRs

AGENDA

Background

- Functional Standards and the IISAR
- Observations about the new Cooperative Agreement

Using the IIS Dashboard to

- Gauge progress of your IIS in supporting all immunization program areas
- Help you plan activities and measures for the new Cooperative Agreement

EXAMPLE: VERMONT

- Gauge progress of your IIS in supporting all immunization program areas
- Help you plan activities and measures for the new Cooperative Agreement

ACCESSING THE DASHBOARD

- After this session, Immunization Program Managers and IIS Managers will receive the link to the dashboard
- Dashboard requirements include:
 - Internet Explorer 10 and above for Windows
 - Adobe Reader 9 and higher
 - Operating Systems: .NET Framework 3.0; Windows 2000, Vista, XP, 7

NEXT STEPS

MAKING THE MOST OF THE DASHBOARD

- It is important to have accurate data
- If your IIS vendor generates the responses...
 - Do you know how your answers are generated?
 - Do you review them before entering them in the IISAR?
- Immunization Program Managers and IIS Managers should tuned for information on how to access the dashboard

QUESTIONS TO CONSIDER

- How are my data pulled for submission to the IISAR?
 - Has that data been validated?
- For Targets Achieved
 - What activities should you include to maintain achievements?
- For Targets Not Achieved
 - Are there ones that you are close to achieving?
 - What are your long term goals (over the 5 year CoAg)?
 - What are your short term goals for the upcoming CoAg year?



THANK YOU!

Janet Fath

Bobbie Strickland

Send questions about this presentation to IIInfo@cdc.gov.

RESOURCE GUIDE

Immunization Information System (IIS) Functional Standards Version 4.0 Resource Guide



Functional Standard	Primary Resources	AIRA Repository Key Words
1.0 The IIS contains complete and timely demographic and immunization data for children, adolescents, and adults residing or immunized within its jurisdiction.	<p>Introductory</p> <ul style="list-style-type: none">Data Quality for IIS – no-cost, interactive training that requires setting up an account with PHII <p>Advanced/Technical</p> <ul style="list-style-type: none">HL7 Version 2.5.1 Implementation Guide for Immunization Messaging, Release 1.5HL7 Version 2.5.1 Implementation Guide for Immunization Messaging (Release 1.5) -- AddendumData Quality Assurance in Immunization Information Systems: Selected AspectsData Quality Assurance in Immunization Information Systems: Incoming DataGuidance for HL7 ACK Messages to Support InteroperabilityAIRA Data Validation Guide – for the IIS Onboarding Process	<ul style="list-style-type: none">Data quality assurance
2.0 The IIS identifies, prevents, and resolves duplicated and fragmented patient records using an automated process.	<p>Introductory</p> <ul style="list-style-type: none">Consolidating Demographic Records and Vaccination Event Records – mini guide <p>Advanced/Technical</p> <ul style="list-style-type: none">Consolidating Demographic Records and Vaccination Event Records – full guideImmunization Information Systems Patient-Level De-Duplication Best PracticesThe Unique Records Portfolio	<ul style="list-style-type: none">DeduplicationConsolidation
3.0 The IIS identifies, prevents, and resolves duplicate vaccination events using an automated process.	<p>Introductory</p> <ul style="list-style-type: none">Consolidating Demographic Records and Vaccination Event Records – mini guideVaccination Level De-duplication in Immunization Information Systems – mini guide <p>Advanced/Technical</p> <ul style="list-style-type: none">Consolidating Demographic Records and Vaccination Event Records – full guideVaccination Level Deduplication in Immunization Information Systems – full guide	<ul style="list-style-type: none">DeduplicationConsolidation

Immunization Information Systems (IIS) Dashboard {Test Awardee} Individual Awardee Progress Report

Query Parameters









Selected FS/OGS Group: Coverage Estimates
Targets Displayed: All Targets
Timeframe: 2017

Legend

 Targets not achieved
 Targets achieved
N/A Exempt

For resources to learn about and meet the IIS Functional Standards, refer to the [IIS Functional Standards Resource Guide](#).

To change report parameters, click the "Change Query Parameters" button. Refer to the [IIS Dashboard User Manual](#) for detailed instructions.

Functional Standards / Measures	Year: 2017	2017 Target Achieved	2017 Target	% Awardees Meeting Target in 2017
1.0 The IIS contains complete and timely demographic and immunization data for children, adolescents, and adults residing or immunized within its jurisdiction.				
1.1.1 Percentage of children born and residing in the IIS's jurisdiction in the last year that had a record established in the IIS within 60 days of birth.	96.1%		85%	<div><div></div></div> 65%
1.1.2 Percentage of children born and residing in the IIS's jurisdiction in the last year that had a record established in the IIS within 45 days of birth.	95.8%		85%	<div><div></div></div> 42%
1.1.3 Percentage of children born and residing in the IIS's jurisdiction in the last year that had a record established in the IIS within 30 days of birth.	95.2%		100%	<div><div></div></div> 85%
1.1.4 Percentage of children that were born in the calendar year that reside in the IIS's jurisdiction that have a demographic record in the IIS.	100.2%		85%	<div><div></div></div> 65%
1.2.1 The IIS identifies records created from vital records.	Yes		Yes	<div><div></div></div> 96%
1.3.1 Difference between IIS coverage estimate for children aged 19-35 months who received the 7-vaccine series and the respective NIS coverage estimate.	Exempt	N/A	N/A	<div><div></div></div> 85%
1.3.2 Difference between IIS coverage estimate for adolescents aged 13-17 years who received Td/Tdap and the respective NIS Teen coverage estimate.	Exempt	N/A	N/A	<div><div></div></div> 65%
1.3.3 Difference between IIS coverage estimate for adults aged 18 years and over who received an influenza vaccination and the respective BRFSS coverage estimate.	Exempt	N/A	N/A	<div><div></div></div> 80%
1.3.4 Percentage of children aged 0-6 years residing in the IIS jurisdiction that are enrolled in the IIS.	100.2%		85%	<div><div></div></div> 65%
1.3.5 Percentage of children and adolescents aged 0-18 years residing in the IIS jurisdiction that are enrolled in the IIS.	96.1%		85%	<div><div></div></div> 65%
1.3.6 Percentage of children, adolescents, and adults (lifespan) residing in the IIS jurisdiction that are enrolled in the IIS.	No Data		Yes	<div><div></div></div> 80%

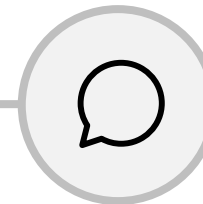
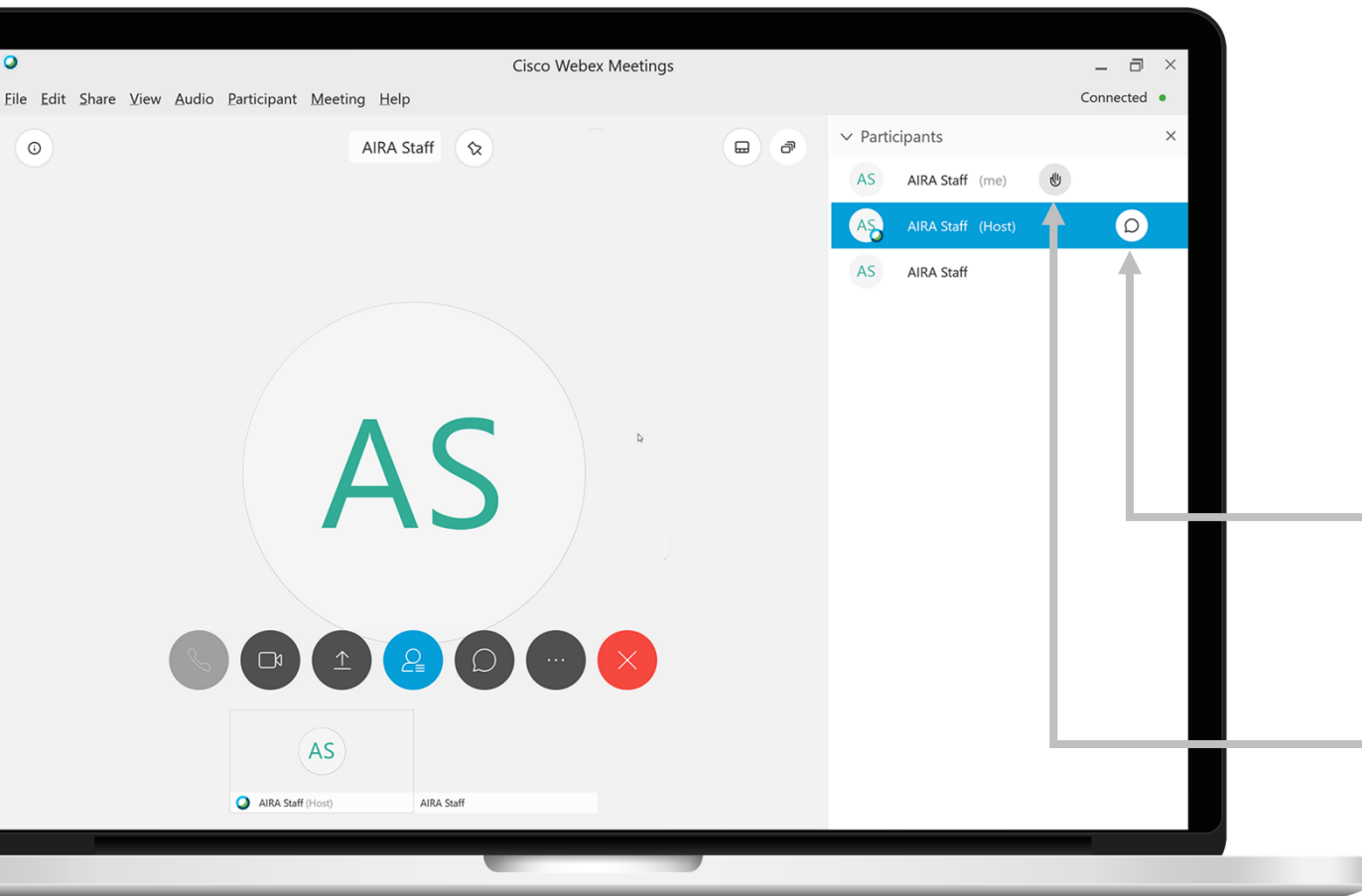
Questions, Comments, Discussion?



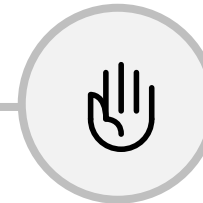
Questions, Comments, Discussion?

How do I ask a question?

- To unmute your line **press *6**
- Via WebEx:



Select the chat icon next to the host and type question into the chat box.



Select the hand icon next to your name and you will be called on.





Thank you for joining us!

A brief evaluation survey will be sent out
following this webinar

The next Discovery Session will be February 25th
at 4pm ET