

AIRA Town Hall Meeting on IIS Transport Assessment Measures

July 6th, 2016

3-4 pm EST



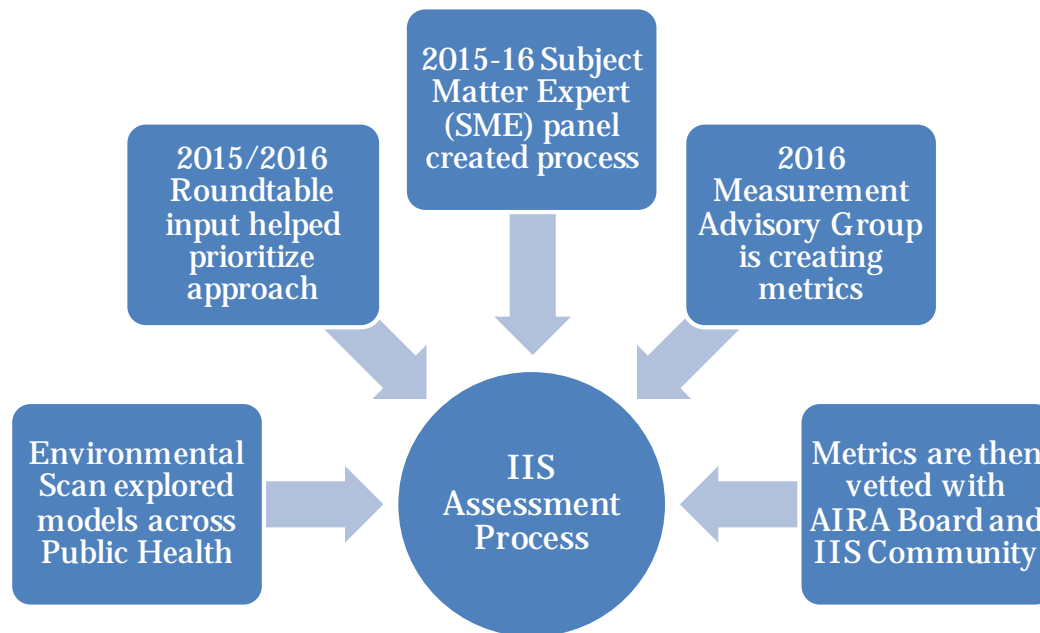
Agenda

- Review of IIS Assessment Process
- Introduction of Transport Measures
- IIS Program and Vendor Perspectives
- How to Participate Using AART
- Discussion



Assessment Process and Status

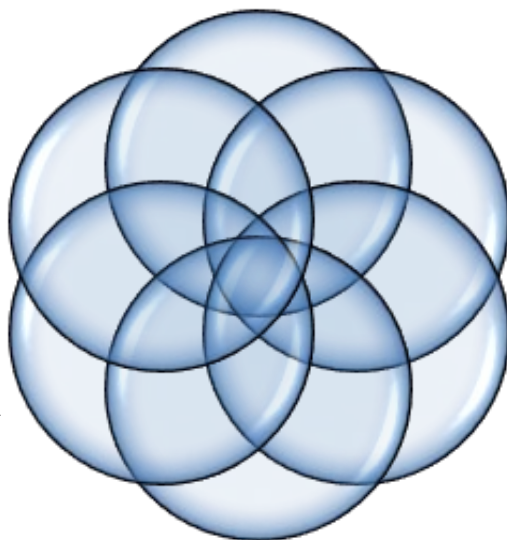
- To develop a community -driven, independent measurement process to assess and support IIS alignment with standards and best practices



Overarching Functional Standards

Goal #1: Support the delivery of clinical immunization services at the point of immunization administration, regardless of setting.

Goal #6: Promoting vaccine safety in public and private provider settings



Goal #2: Support the activities and requirements for publicly purchased vaccine, including the Vaccines for Children (VFC) and state purchase programs.

Goal #5: Provide immunization information to all authorized stakeholders.

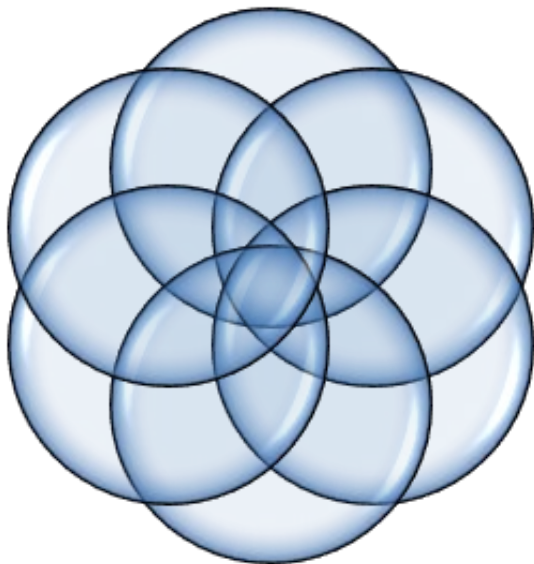
Goal #3: Maintain data quality (accurate, complete, timely data) on all immunization and demographic information in the IIS.

Goal #4: Preserve the integrity, security, availability and privacy of all personally identifiable health and demographic data in the IIS.

Transport: Goal → Functional Standard → OGS → Measure → Test

Goal #1: Support the delivery of clinical immunization services at the point of immunization administration, regardless of setting

Functional Standard 1.4: When the IIS receives queries from other health information systems, it can generate an automatic response in accordance with interoperability standards endorsed by CDC for message content/format and transport.



Operational Guidance Statement 1.4.8: IIS supports the SOAP Standard Interface, Web Services Definition Language (WSDL), as endorsed by CDC. (See Transport Layer Protocol Recommendation)

Potential Measure: The IIS supports the SOAP Standard Interface 1.2 specification, Web Services Definition Language (WSDL), as endorsed by CDC.

Potential Test: The IIS shall implement the Connectivity Test Operation



Measurement for Assessment and Certification Advisory Workgroup (*MACAW*)

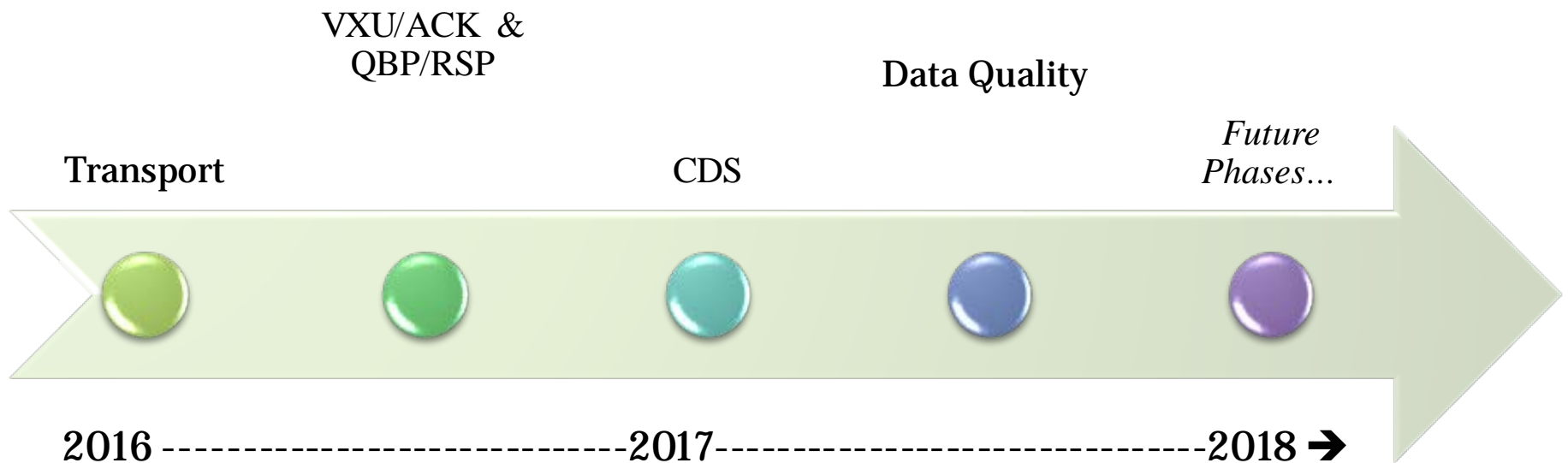
– Charge:

- To continue refining process for Assessment/Certification
- To oversee the development and testing of metrics
- To review and provide input on communications to IIS community
- To evaluate triggers and answer outstanding questions about potential move toward external-facing Certification

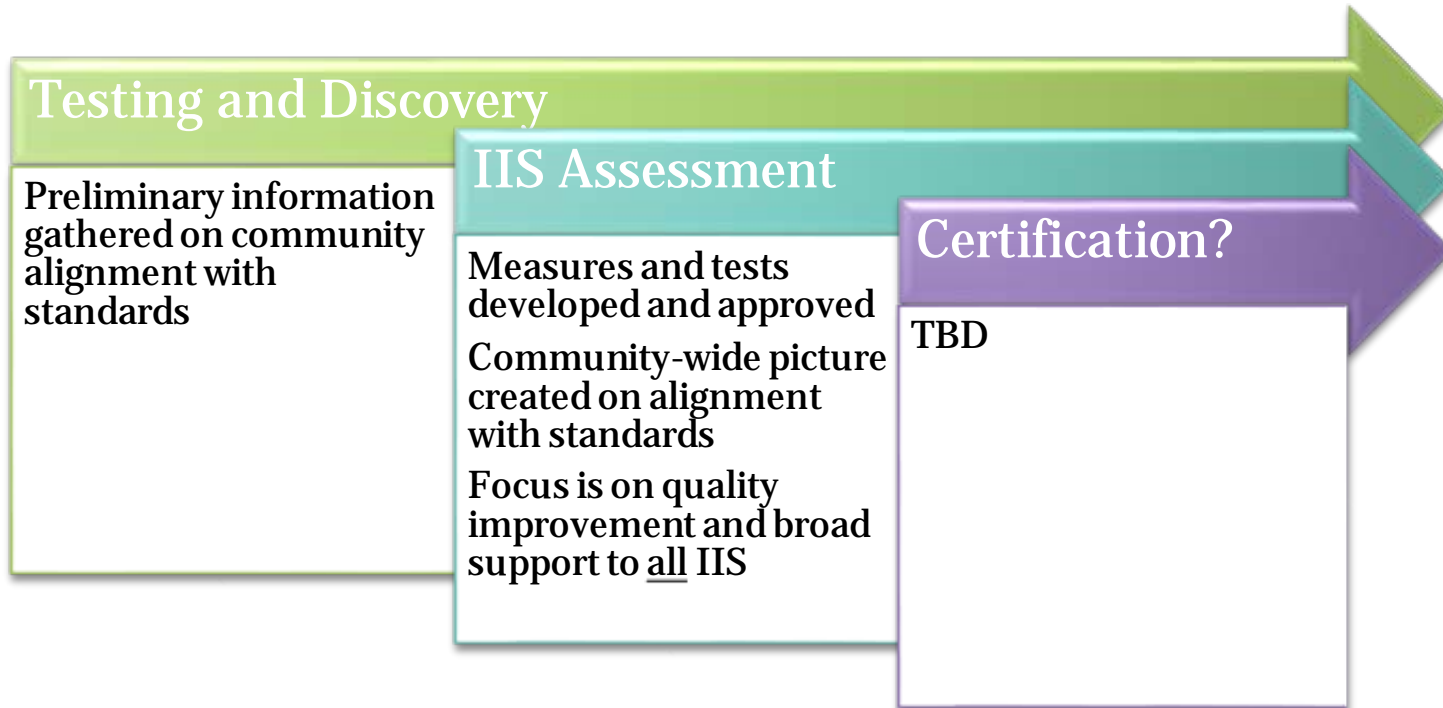
– Workgroup Members

- Dana Goodloe, Arizona
- Kevin Snow, Envision
- Eric Schuh, HPE
- Amy Groom, IHS
- Wendy Nye, Michigan
- Aaron Bieringer/Erin Roche, Minnesota
- Michelle Hood/Scott Benedict, Nebraska
- Jane Lammers, Nevada
- Amy Metroka, NYC
- Brandy Altstadter, STC
- Laura Pabst, IISB, CDC
- LaTreace Harris, IISB, CDC
- Rob Snelick, NIST
- AIRA Staff (Mary Beth Kurilo, Eric Larson, Nathan Bunker, & Nichole Lambrecht)

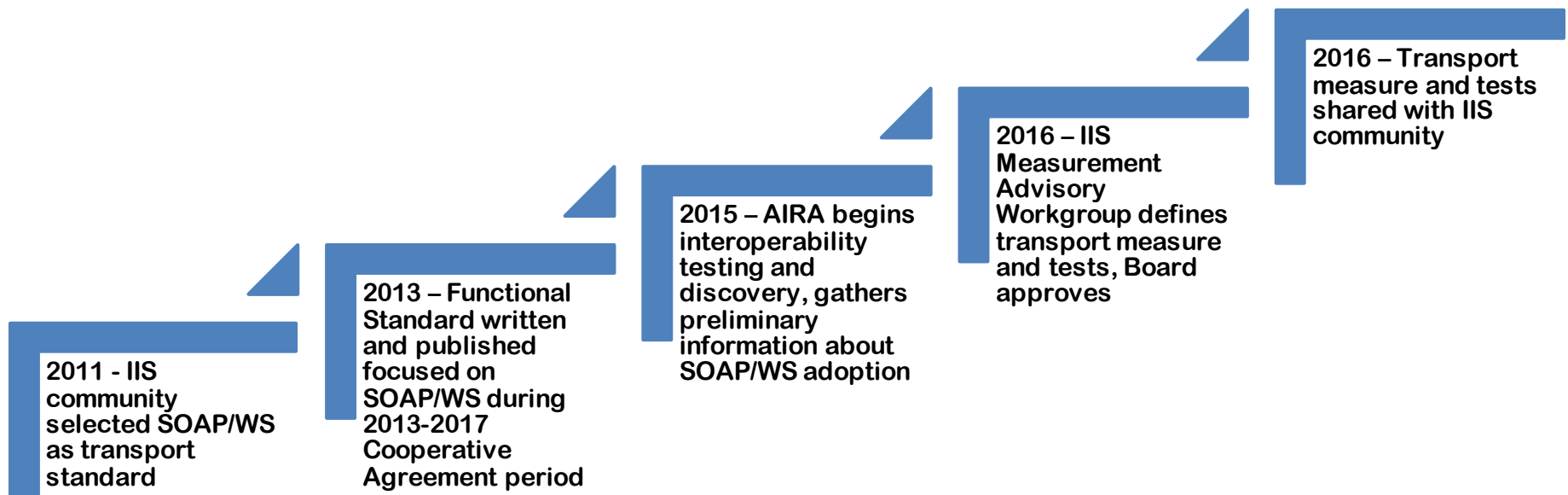
Current and Upcoming Assessment Phases



Assessment Stages



IIS Transport Standards Development Process



Note: Target is for all IIS to offer SOAP/Web Services as one transport method, not to recommend SOAP/Web Services as the only transport method



Proposed Transport Measure and Tests

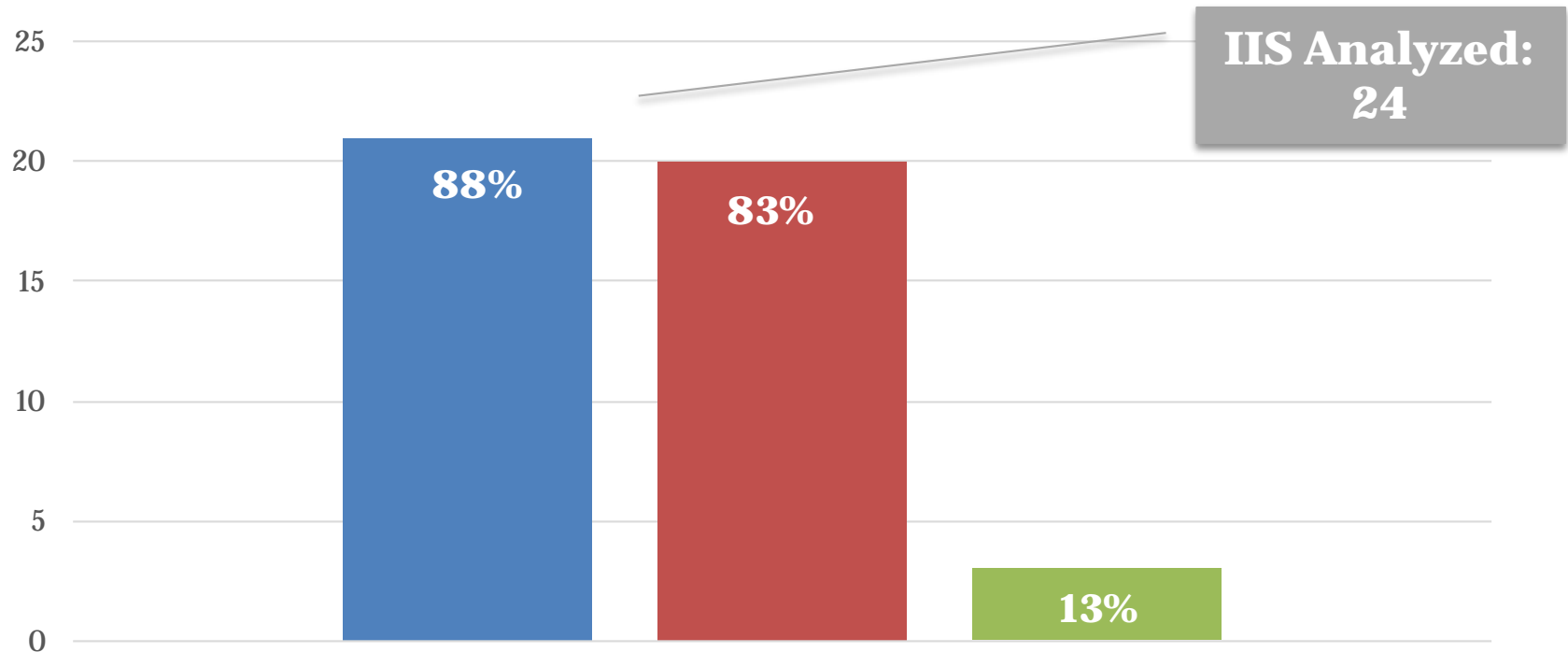
1) The IIS supports the SOAP Standard Interface 1.2 specification, Web Services Definition Language (WSDL), as endorsed by the CDC.

- 1a) The IIS shall implement the Connectivity Test Operation
- 1b) The IIS shall implement the Submit Single Message Operation
- 1c) The IIS shall have the ability to throw a Security Fault

Expected Test Outcomes

Test Case	Test Outcomes
1a) Perform a connectivity test request to an IIS	A successful test is indicated if the IIS responds with any of the following: <ul style="list-style-type: none">• IIS responds with a conformant connectivity test response• IIS responds with a conformant Unsupported Operation fault
1b) Perform a Submit Single Message request to an IIS with all of the following: <ul style="list-style-type: none">• Proper credentials as specified by the IIS• One HL7 message containing a basic VXU message	A successful test is indicated if the IIS responds with a conformant submit single message response. Acceptance or rejection of the HL7 message is not relevant for passing this test.
1c) Perform a Submit Single Message request to an IIS with all of the following: <ul style="list-style-type: none">• Incorrect credentials• Basic VXU message	A successful test is indicated if the IIS responds with a conformant Security Fault.

Preliminary: Transport Conformance from Interoperability Testing and Discovery Phase



Number Tested for Conformance with SOAP/WS and CDC WSDL: 24

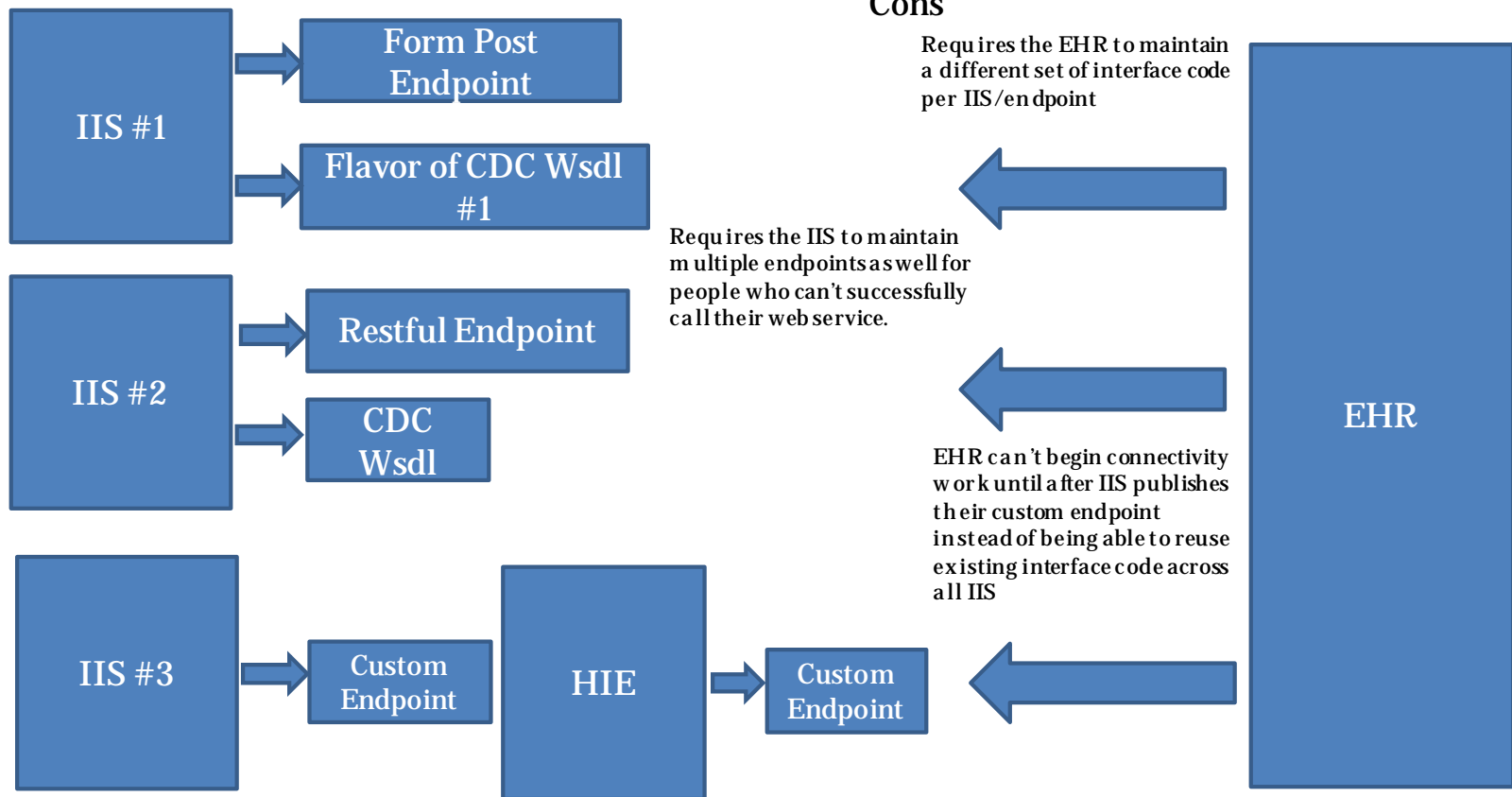
- **Conform to the Connectivity "Ping" Test**
- **Conform to the Submit Single Message Test**
- **Conform to the Security Fault**



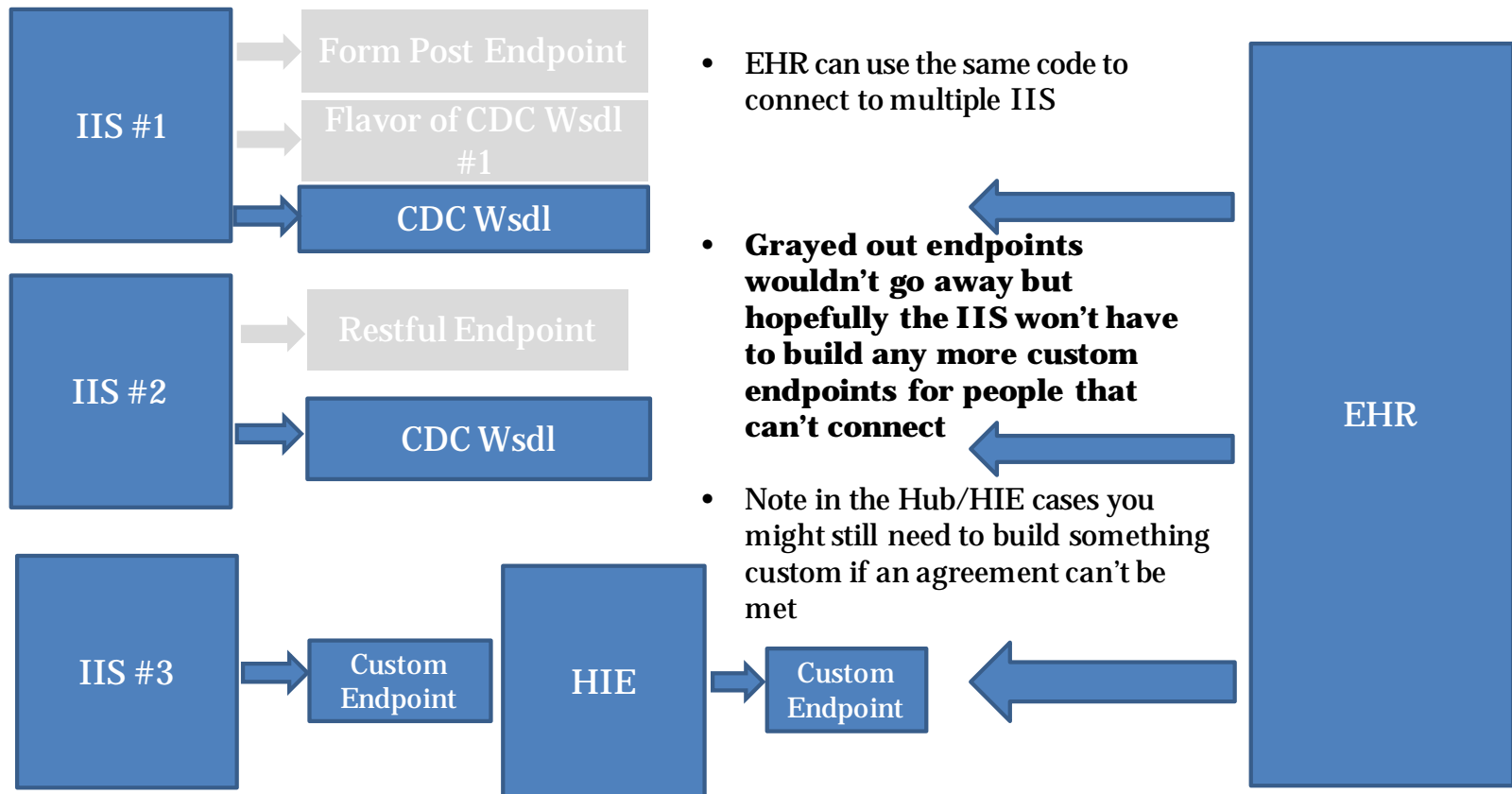
IIS Program & Vendor Perspective

- New York City - Amy Metroka & Angel Aponte
- Envision Technology Partners Inc.– Kevin Snow
 - The relevance of supporting one common transport standard
 - An EHR connected to one IIS can connect to all IISs
 - EHR can change URL and account credentials to connect to a different IIS
 - Decreases connectivity work for all EHRs and IISs
 - The value of IIS Assessment to programs and vendors
 - Determine compliance with standard and what you need to do to align and reap benefits from standard

Connectivity in the wild



Connectivity Goal – Simplify the landscape



EHRs should all have support for CDC WSDL soon.
Essentially we are just guaranteeing it on our end as well.

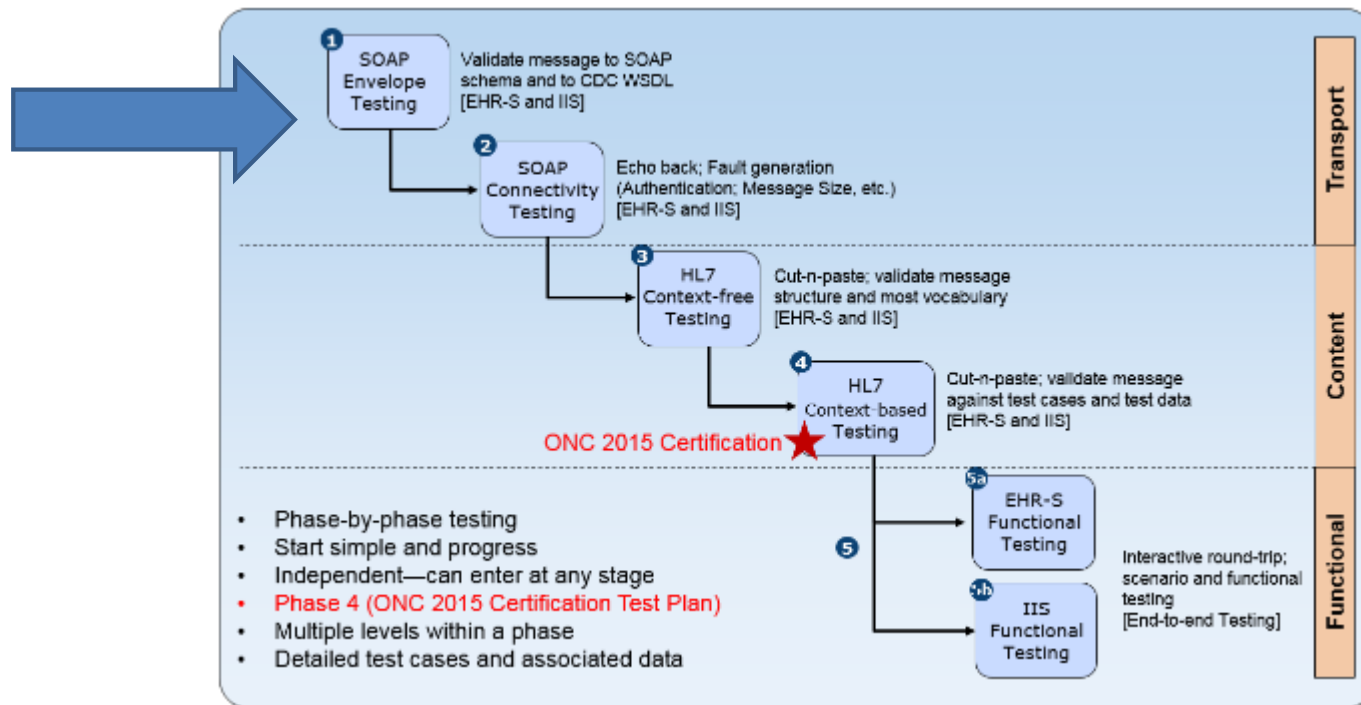


Image Source: <http://hl7v2-iz-r1.5-testing.nist.gov/iztool/#/home>

Measure: connectivityTest (“Ping Test”)

- Extremely useful method when establishing connectivity with a new endpoint.
- It's as simple of a method as possible that just echoes back what was passed in.
- It's sole intent is to establish that two can endpoints can talk to each other. This makes it easier to eliminate connectivity issues that might be the result of firewalls, ip address validation, certification validation, etc.
- The example below illustrates the actual data (soap) being exchanged between two systems to establish a successful connectivityTest call. Often at least 90% of connectivity issues can be resolved with using the connectivityTest method. Once that method is working calling submitSingleMessage is just a question of calling a different method.





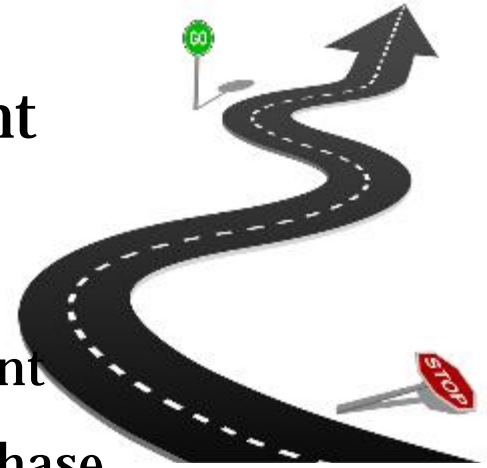
In sum...

- Existing endpoints would not go away as they already have an established base of users but hopefully this will help lead to the end of having to build new custom endpoints. Hub/HIE cases would be the exception to the rule if they are unable to adopt the endpoint.
- Hopefully this can reduce the amount of resources dedicated to support
- Connectivity can be tested and established with the NIST tooling before even calling the IIS. (<http://hl7v2-iz-r1.5-testing.nist.gov/>)
- Possibly make future IIS to IIS communications easier. *Please note there is an ONC Hub project that communications might go through instead for IIS to IIS communications.*

So where do we go from here?

Including your IIS for Transport Assessment


- AART will be the tool IIS use to tell AIRA they want their IIS included for each individual assessment phase
- IIS Managers/Leads (considered “admins” in AART) will be given permissions in AART to make these designations
- Between August 1-August 15, log into AART and set participation for Transport
 - New reports to be run in September – emails with links to reports will be pushed out to users when fresh reports are available





Why should all IIS choose to be included as early as possible?

- This will provide the most complete picture of the full IIS community's alignment with standards
 - Ideally, all IIS will be represented in aggregate reports
- Individualized reports will show exactly where your IIS aligns with measures and tests
 - Each IIS can determine who will have access to their individualized reports (e.g., their IIS vendor, etc.)

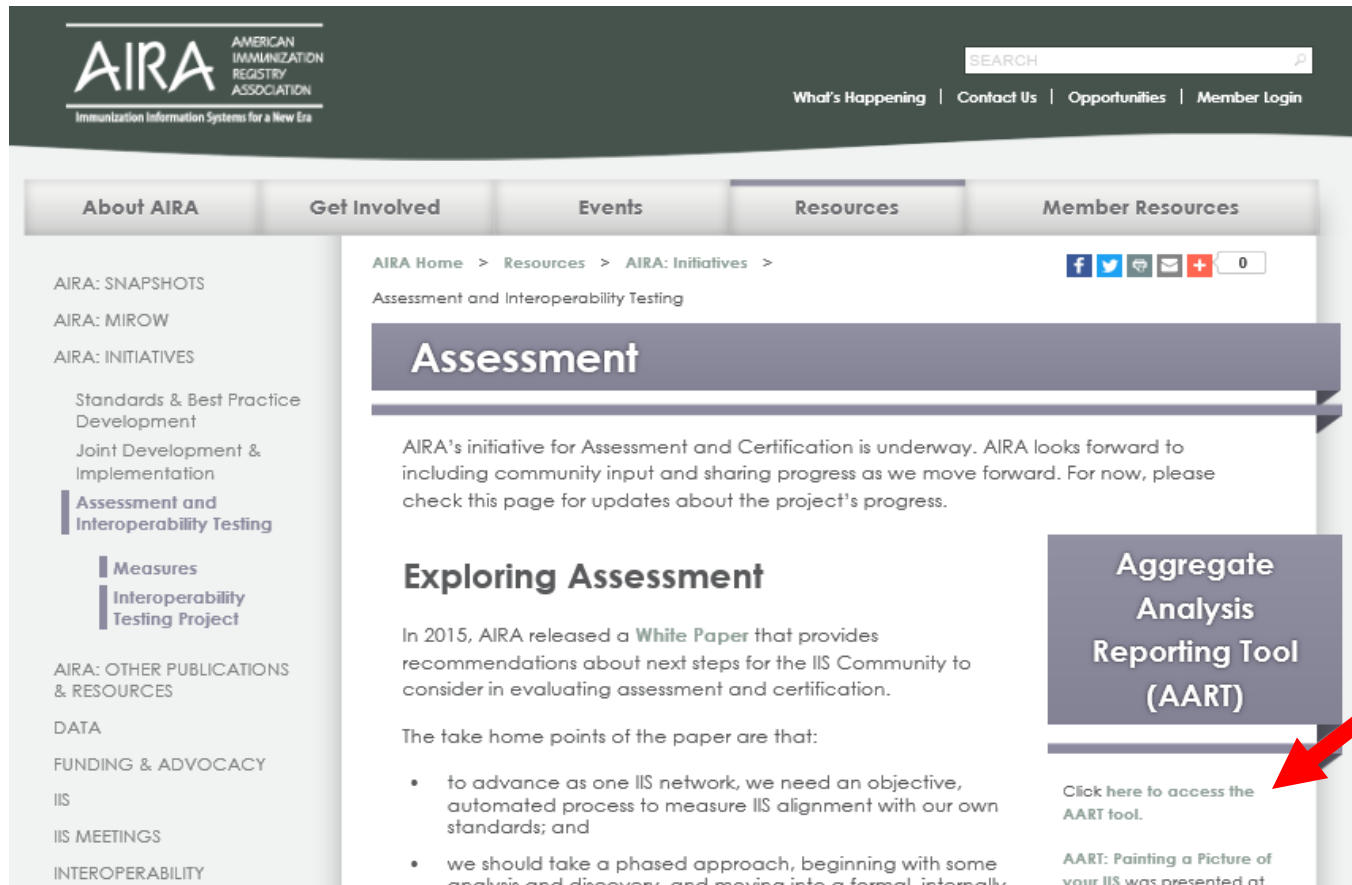


Will there be an exclusion/exception process for IIS who cannot jurisdictionally adopt SOAP/Web Services, or future phases of IIS Assessment?

- Not yet - 100% participation in the IIS Assessment stage will get us closer to seeing and understanding jurisdictional variances long before we move towards certification
 - It will help us understand why a jurisdiction can't participate
 - It will tell us why an IIS might not pass a measure down the road if/when we get to certification
- Certification will likely include an exclusion/exception process

AART Access

- Not registered yet for AART? Go to the following website.
 - <http://www.immregistries.org/resources/aira-initiatives/assessment>



The screenshot displays the AIRA (American Immunization Registry Association) website. The header includes the AIRA logo, the tagline "Immunization Information Systems for a New Era", a search bar, and navigation links: "What's Happening", "Contact Us", "Opportunities", and "Member Login". The main navigation bar features "About AIRA", "Get Involved", "Events", "Resources", and "Member Resources". The left sidebar lists various categories: "AIRA: SNAPSHOTS", "AIRA: MIROW", "AIRA: INITIATIVES" (with sub-links for "Standards & Best Practice Development", "Joint Development & Implementation", "Assessment and Interoperability Testing", "Measures", and "Interoperability Testing Project"), "AIRA: OTHER PUBLICATIONS & RESOURCES", "DATA", "FUNDING & ADVOCACY", "IIS", "IIS MEETINGS", and "INTEROPERABILITY". The main content area shows the breadcrumb "AIRA Home > Resources > AIRA: Initiatives >" and the page title "Assessment and Interoperability Testing". The "Assessment" section describes AIRA's initiative for Assessment and Certification. The "Exploring Assessment" section mentions a 2015 White Paper and lists take-home points. A callout box on the right, titled "Aggregate Analysis Reporting Tool (AART)", contains a link: "Click here to access the AART tool." A red arrow points to this link.

AIRA AMERICAN IMMUNIZATION REGISTRY ASSOCIATION
Immunization Information Systems for a New Era

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DATA
FUNDING & ADVOCACY
IIS
IIS MEETINGS
INTEROPERABILITY

AIRA Home > Resources > AIRA: Initiatives >

Assessment and Interoperability Testing

Assessment

AIRA's initiative for Assessment and Certification is underway. AIRA looks forward to including community input and sharing progress as we move forward. For now, please check this page for updates about the project's progress.

Exploring Assessment

In 2015, AIRA released a *White Paper* that provides recommendations about next steps for the IIS Community to consider in evaluating assessment and certification.

The take home points of the paper are that:

- to advance as one IIS network, we need an objective, automated process to measure IIS alignment with our own standards; and
- we should take a phased approach, beginning with some analysis and discovery, and moving into a formal, internally...

Aggregate Analysis Reporting Tool (AART)

Click here to access the AART tool.

AART: Painting a Picture of your IIS was presented at



What questions do you have?



- about the transport measures/tests
- about the assessment process in general
- about the process for using AART
- about your role in future assessment phases
- do you want to be more involved




Recap

1) The IIS supports the SOAP Standard Interface 1.2 specification, Web Services Definition Language (WSDL), as endorsed by the CDC.

- 1a) The IIS shall implement the Connectivity Test Operation**
- 1b) The IIS shall implement the Submit Single Message Operation**
- 1c) The IIS shall have the ability to throw a Security Fault**

Attendees – 1st click on the () tool in the upper left hand side of the screen to turn on annotation. 2nd using the annotation tool to the left, click on the () tool and then click on the map to show your current location.

Do these measures/tests accurately capture our community transport standard?	
Yes	No, need more information



Polling Question



Next Steps...

A decorative blue wavy graphic at the top of the slide.

Thank you!

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