



AIRA
AMERICAN IMMUNIZATION
REGISTRY ASSOCIATION

Town Hall Meeting on Validation for Submission/Acknowledgement and Query/Response

March 7th, 2018, 3pm ET

Agenda

- Opening welcome, Review of Agenda – Aaron Bieringer, Minnesota Interoperability and Technical lead, MACAW Co-Chair
- Background and Review of Validation – Mary Beth Kurilo, AIRA
- Validation Roll-Out, Submission/Acknowledgement – Eric Larson, AIRA
- Validation Roll-Out, Query/Response – Eric Larson, AIRA
- Questions/Discussion



AIRA's Measurement for Assessment and Certification Advisory Workgroup (MACAW) Members recommend concepts and measures to the AIRA Board for approval

Jane Lammers, Nevada IIS - Co-Chair

Aaron Bieringer, Minnesota IIS - Co-Chair

Brandy Alstadter, STC

Roger Aikin, Arizona IIS

Amy Groom, Indian Health Services (IHS)

Dave McCormick, Indiana Imm Program

Rob Snelick, NIST

Amy Metroka, NYC IIS

Wendy Nye, Michigan IIS

Laura Pabst, IIS SB, CDC

Eric Schuh, DXC

Kevin Snow, Envision Technology



The Measurement and Improvement Initiative is a Phased, Rolling Process

Stages

We are here



Phases

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

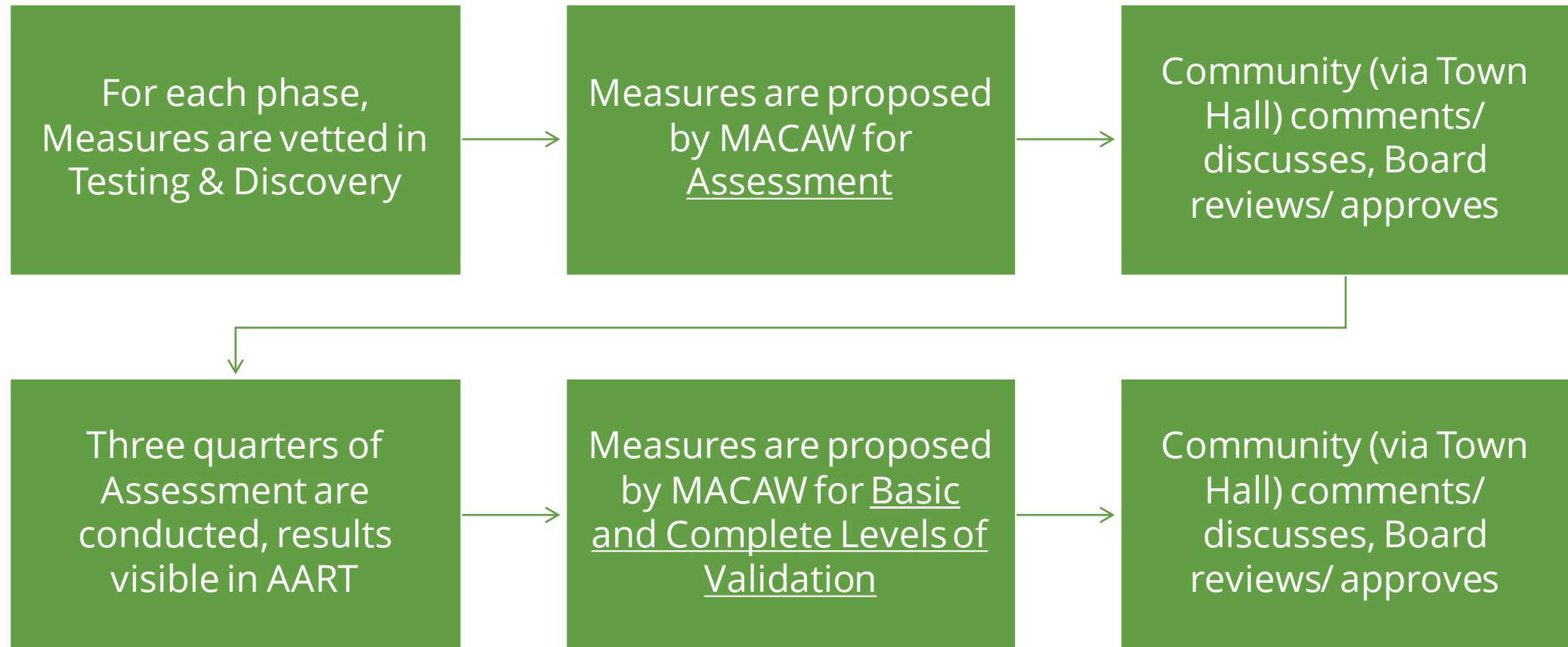


Process for Validation

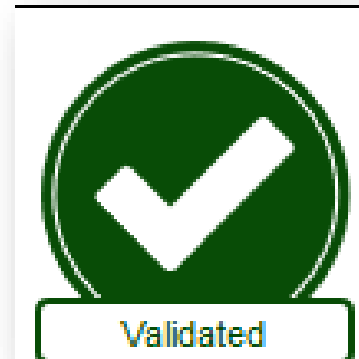
What happens at each stage?



What else happens? We solicit a lot of input from the community



Measurement and Improvement: Validation

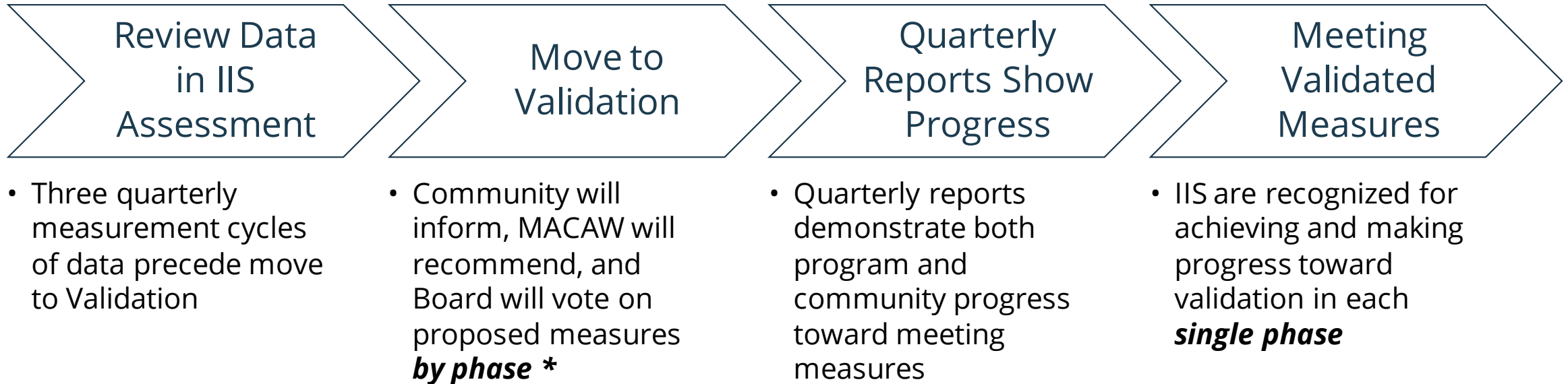


Definition: Following the stages of Testing and Discovery and IIS Assessment, Validation is a summary stage to acknowledge IIS that are progressing toward or achieving alignment with community-selected measures. A Validation designation is automatically achieved when an IIS meets the designated measures and tests in a specific phase (e.g., Transport, Submission, etc.).



Validation Rollout

A “Validation” designation is automatically achieved when an IIS meets the designated* measures and tests in IIS Assessment

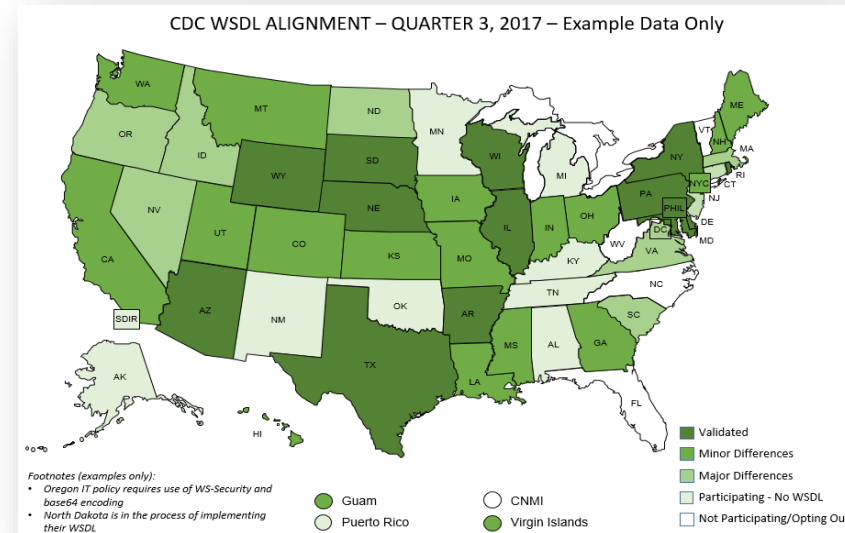
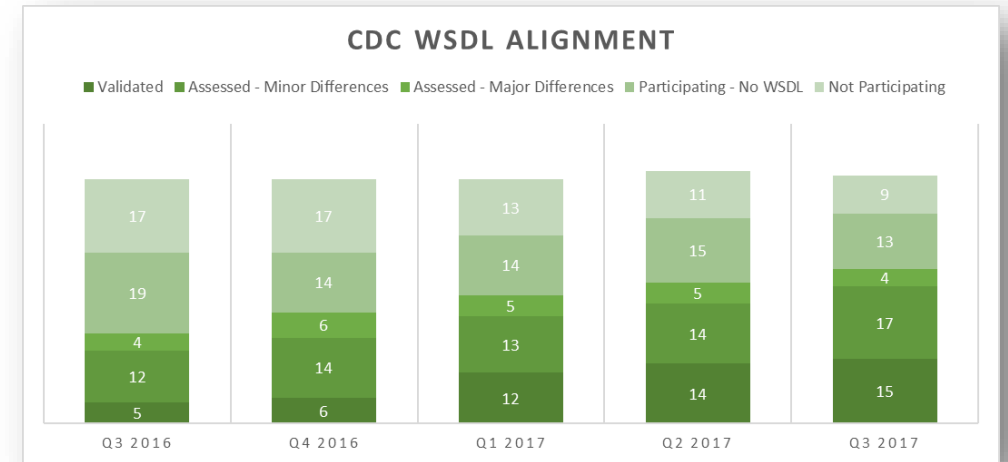


Validation Statuses, Explained



Nation-wide Validation Reports

- Include gradations of “validated with minor differences” and “major differences” to better demonstrate incremental progress.
- Include quarterly identified maps with gradations, with footnotes that clarify policy differences



Example Data Only



Announcements and Welcome!

First time user? Watch this quick orientation video for AART! IIS Assessment Reports for CDS are available as of 8/15/2017. Other training resources for AART.

Cambridge Dashboard

Testing and Discovery



Assessment



Validation

Discovery



Connected
June 2017

NDC



Eligible to Participate

Transport

Mar 2017

Submission and Acknowledgement

May 2017

Query and Response

May 2017

CDS

Eligible to Participate

Transport - Complete

2018

AART Dashboard



Transport - Complete

Congratulations your Transport interface is almost compatible with CDC standards.

Cambridge Dashboard

✔ Basic ✔ Complete

Transport - Complete



Minor Differences

2018

Validation Details

#	Validation Measure	Result
1	The IIS shall implement the Connectivity Test Operation	Meets
2	The IIS shall implement the Submit Single Message Operation	Meets
3	The IIS shall have the ability to throw a Security Fault	Deviates

How was this calculated?

Review and Annotate

Validating this test system:

Does this report represent and test the same functionality as is available in production?

- Yes
- Will be available by
- No, because

Is this CDC WSDL available for EHRs and other submitters to use?

- Yes
- Will be available by
- No, because

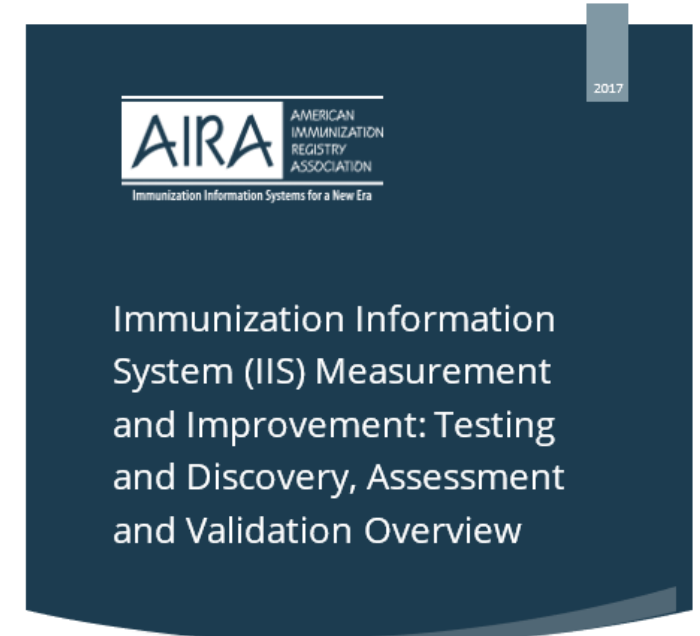
Do you have any local law/policy that you would like to have noted in this report?

Save Review



Additional Information Is Available on the AIRA Website: www.immregistries.org

- There is an updated overview document that provides summary information about Measurement and Improvement overall, and goes into detail about Validation - it can be found on the [Measurement and Improvement Initiative: Validation page](#)
- FAQs and a 1-2 page summary are also available



Developed and implemented by the Measurement for Assessment and Certification Advisory Workgroup (MACAW)

American Immunization Registry Association | 11-2017



Proposed Submission/ Acknowledgement Measures for Validation



Validation Phases

TRANSPORT

3

1st Assessment
Q3 2016

Approved
December, 2017

SUBMISSION

14

1st Assessment
Q1 2017

Will Discuss
Today

QUERY

8

1st Assessment
Q1 2017

Will Discuss
Today



Assessment Measures in Validation

Assessment Measures

Measure 7
Measure 6
Measure 5
Measure 4
Measure 3
Measure 2
Measure 1

Validation Levels



Assessment Measures in Validation

Assessment Measures

Measure 7
Measure 6
Measure 5
Measure 4
Measure 3
Measure 2
Measure 1

Validation Levels

Measure 3
Measure 2
Measure 1

Basic

Measure 7
Measure 6
Measure 5
Measure 4
Measure 3
Measure 2
Measure 1

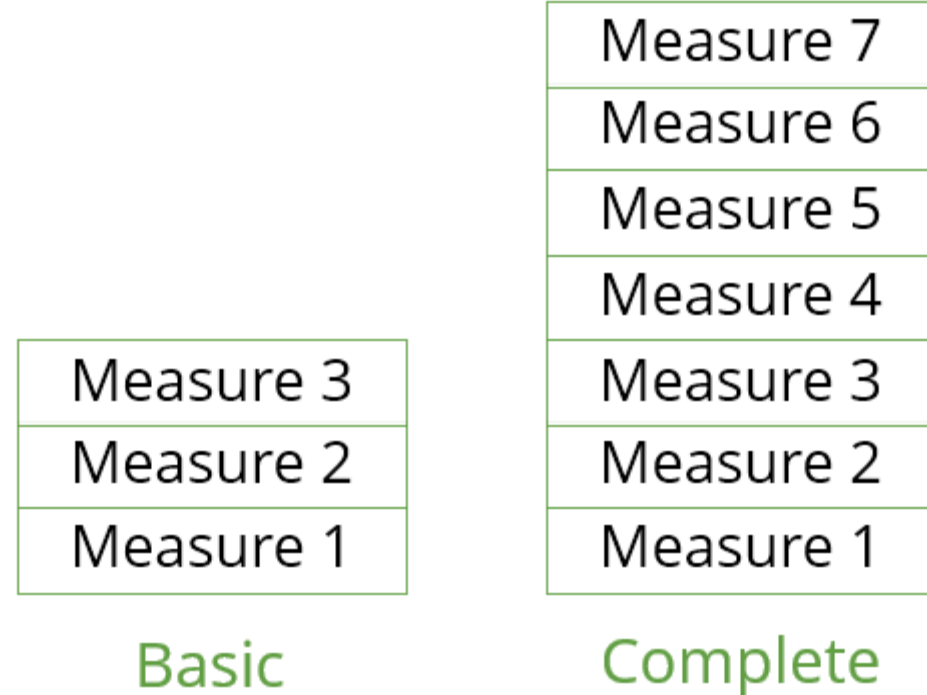
Complete



Validation Statuses

With Validation Levels defined, an IIS can be measured and assigned a validation Status for each level

Validation Levels



Validation Statuses



Submission and Acknowledgement

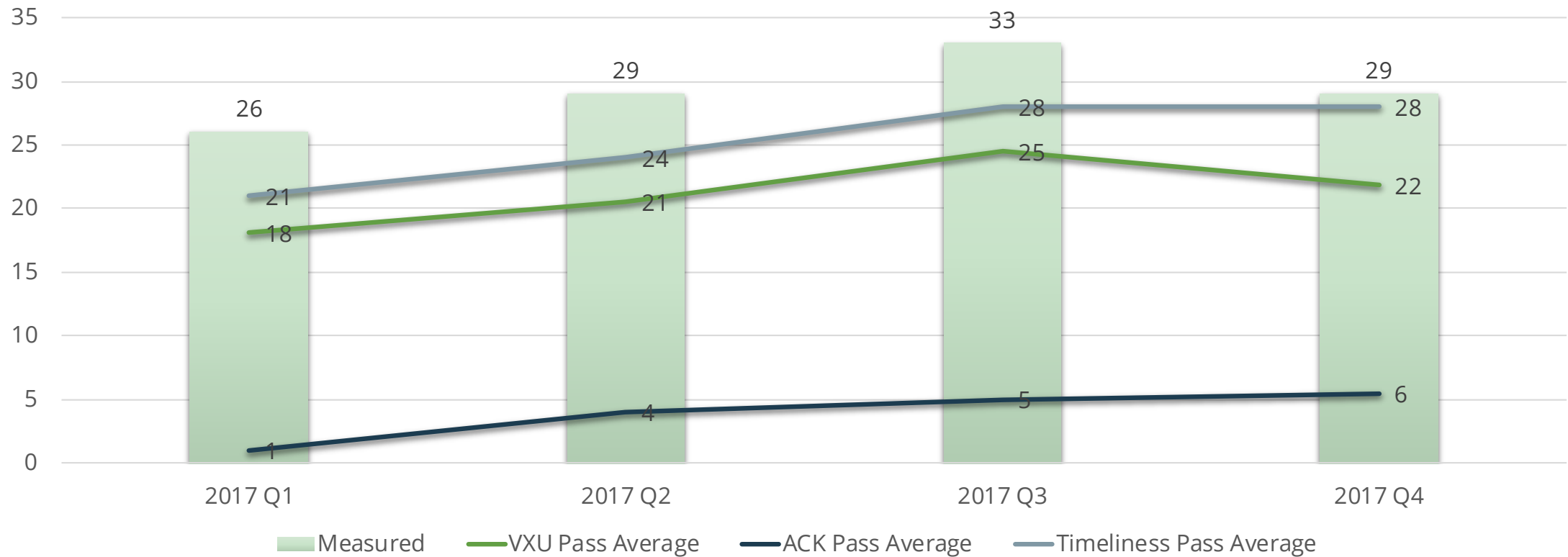
2018 – 2022 Functional Standards

- **Functional Standard 1.5:** The IIS ensures that submitted vaccination and demographic data are processed and viewable in a timely manner.
- **Functional Standard 1.6:** The IIS assures the receipt, processing, and storage of demographic and vaccination data elements as endorsed by CDC.
- **Functional Standard 8.2:** The IIS receives submissions and returns acknowledgements consistent with the current CDC-endorsed HL7 Implementation Guide.



Submission and Acknowledgement *Assessment to Date*

Submission and Acknowledgement Trends - Q4 2017



Submission and Acknowledgement

Proposed Basic Level

Assessment Measure

- 1 - The IIS processes an administered vaccine for a patient.
- 2 - The IIS processes a historical vaccine for a patient.
- 3 - The IIS processes the submission of a full immunization record for a patient.
- 4 - The IIS processes an update to a previously submitted vaccination event.
- 5 - The IIS processes a delete to a previously submitted vaccination event.
- 6 - The IIS processes a submission where the patient does not give consent (i.e., patient data is protected) to share data.



Submission and Acknowledgement

Proposed Complete Level

Assessment Measure

1 – 6: Measures included from Basic

7 - The IIS processes a refusal of a vaccination.

8 - The IIS processes an adverse event.

9 - The IIS processes an observation about a patient which results in a contraindication or immunity to a vaccine preventable disease.

10 - The IIS processes messages with only minimally required data elements populated per the HL7 2.5.1, release 1.5 guide and addendum.

11 - The IIS processes both complete and incomplete/partially administered doses.

12 - The IIS responds to a correctly formatted message with no errors.

13 - The IIS responds to a submission that has an error.

14 - The IIS responds to a submission with an ACK within 5 seconds or less for 95% of the records



Submission and Acknowledgement

Proposed Basic and Complete Measures

Assessment Measure	Basic Level	Complete Level
1 - The IIS processes an administered vaccine for a patient.	X	X
2 - The IIS processes a historical vaccine for a patient.	X	X
3 - The IIS processes the submission of a full immunization record for a patient.	X	X
4 - The IIS processes an update to a previously submitted vaccination event.	X	X
5 - The IIS processes a delete to a previously submitted vaccination event.	X	X
6 - The IIS processes a submission where the patient does not give consent (i.e., patient data is protected) to share data.	X	X
7 - The IIS processes a refusal of a vaccination.		X
8 - The IIS processes an adverse event.		X
9 - The IIS processes an observation about a patient which results in a contraindication or immunity to a vaccine preventable disease.		X
10 - The IIS processes messages with only minimally required data elements populated per the HL7 2.5.1, release 1.5 guide and addendum.		X
11 - The IIS processes both complete and incomplete/partially administered doses.		X
12 - The IIS responds to a correctly formatted message with no errors.		X
13 - The IIS responds to a submission that has an error.		X
14 - The IIS responds to a submission with an ACK within 5 seconds or less for 95% of the records		X



Proposed Query/Response Measures for Validation



Query and Response

2018 – 2022 Functional Standards

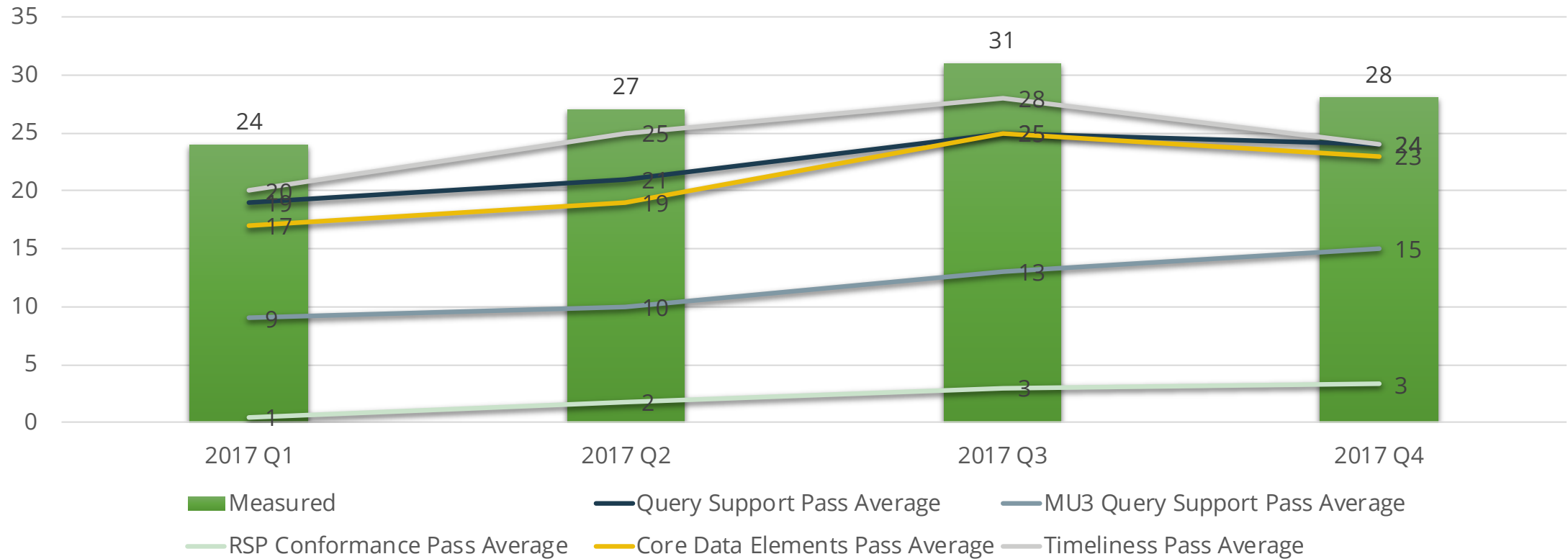
- **Functional Standard 1.5:** The IIS ensures that submitted vaccination and demographic data are processed and viewable in a timely manner.
- **Functional Standard 1.6:** The IIS assures the receipt, processing, and storage of demographic and vaccination data elements as endorsed by CDC.
- **Functional Standard 8.3:** The IIS receives queries from, and sends responses to, health information systems consistent with the current CDC-endorsed HL7 Implementation Guide.



Query and Response

Assessment to Date

Query and Response Trends - Q4 2017



Query and Response

Proposed Basic and Complete Measures

Assessment Measure	Basic Level	Complete Level
1 - The IIS processes a query requesting a patient's immunization record.	X	X
2 - The IIS processes a query requesting a patient's evaluated immunization record and forecast.	X	X
3 - The IIS responds to a query for a known patient (one-to-one match).	X	X
4 - The IIS responds to a query for a patient that is not in the IIS.	X	X
6 - The IIS responds to a query that has a significant error that cannot be accepted.		X
7 - The IIS responds to a query for a known patient and returns known Core Data Elements.	X	X
8 - The IIS responds to a query with an RSP within 5 seconds or less for 95% of the queries submitted.		X



Query Measure 5

- The IIS responds to a query that results in multiple possible patients.
- Measure 5 is not being proposed to move to Validation at this time. To properly assess Measure 5 an intentional duplicate patient must be created in the IIS. To date, the AIRA Measurement and Improvement project has been unable to create this duplicate consistently across all participants leading to varied results and false negatives.



Questions/Discussion

1. Submission and Acknowledgement
2. Query and Response
3. General



Next Steps

- By Thursday **3/15**, Provide feedback
- On Monday **3/19**, Board Discussion and Approval Vote
- In **Q2**, Validation Begins



Thank you!

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