



Ask the Experts: Measurement and Improvement

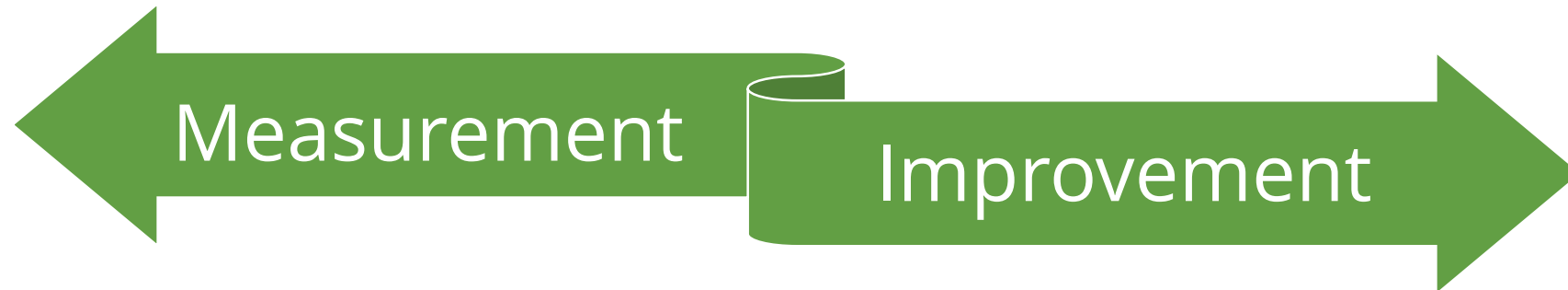
From Transport to Decision Support, All Your Questions Answered
AIRA 2019 National Meeting
Tuesday, August 13, 2019
10:45-11:45 AM



Overview of Measurement and Improvement



- The IIS Measurement and Improvement (M&I) Initiative tests IIS alignment with standards and provides them with information and assistance to improve
- All testing is conducted by AIRA staff, in large part through connecting with test or pre-production systems, submitting test messages, and analyzing returned messages



Why is M&I So Important?

- Data interfaces rely on uniform adoption of standards for smooth onboarding and efficient, stable exchange of information
- Greater alignment with standards will:



speed up the
onboarding
process



minimize the need
for explanations
of operational
variations



improve volume
and quality of
data used for
coverage rates

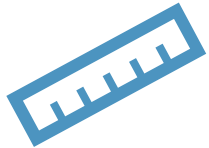


lower costs and
sustain the IIS
community
moving forward

Transport



- **Background:** Allows for one standardized transport layer all trading partners can rely on. NOTE: This doesn't have to be the only transport offered by your IIS.
- Supported by:
 - Functional Standard 8.1
 - CDC WSDL Specification



- **Measured:**
 - Required operations and faults in Specification



- **Not Measured:**
 - Optional faults, client certificate usage

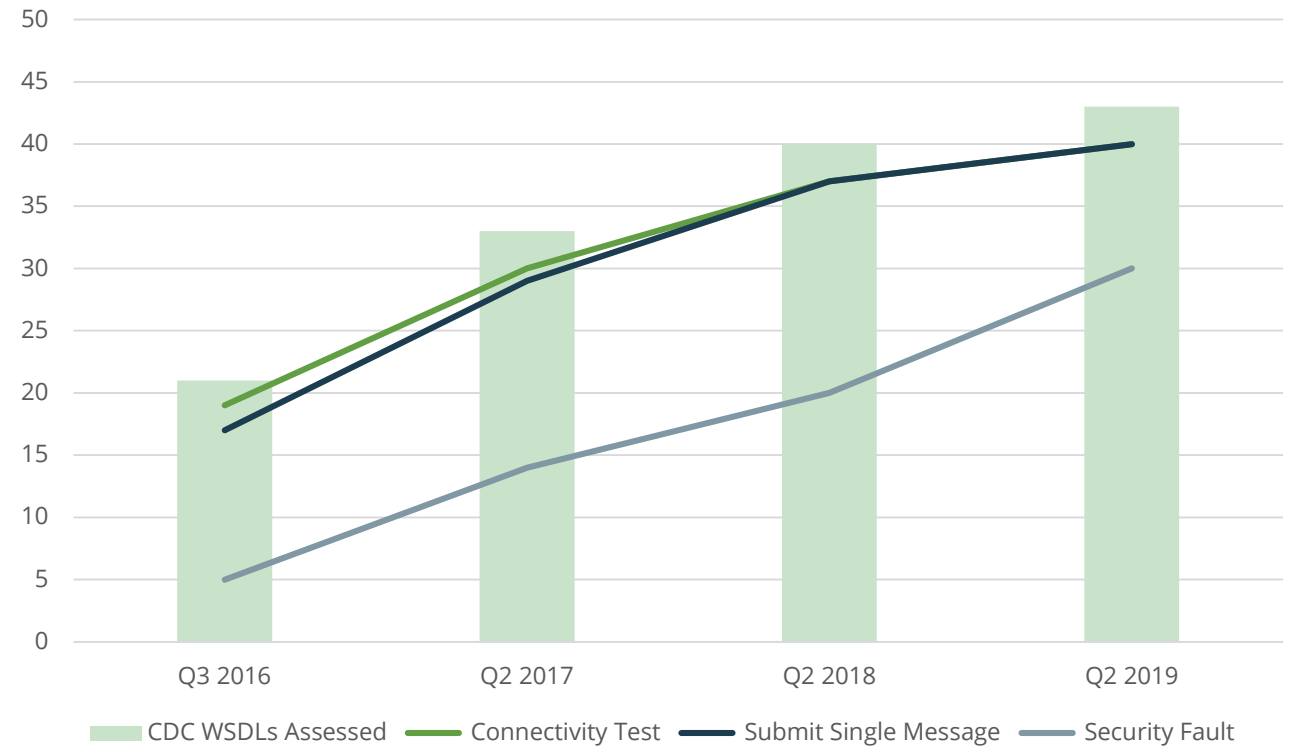
Transport Trends

- Successes

- 43 IIS have a CDC WSDL
- 40 IIS are Validated at the Basic Level

- Challenges

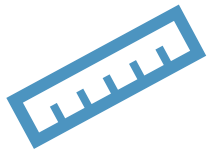
- SecurityFault



Submission and Acknowledgment



- **Background:** Measures the submission and subsequent acknowledgment returned by IIS to ensure consistent, standards-based communication between providers and IIS.
- Supported by:
 - Functional Standard 8.2
 - HL7 Implementation Guide release 1.5 and addendum



- **Measured:**
 - Submission of administered and historical Doses
 - Updating and deleting previously submitted data
 - Consent
 - Submission of refusals, adverse events, contraindications, immunities, and partial doses
 - ACK conformance



- **Not Measured:**
 - Patient Matching, Vaccine Matching, Actual storage of data

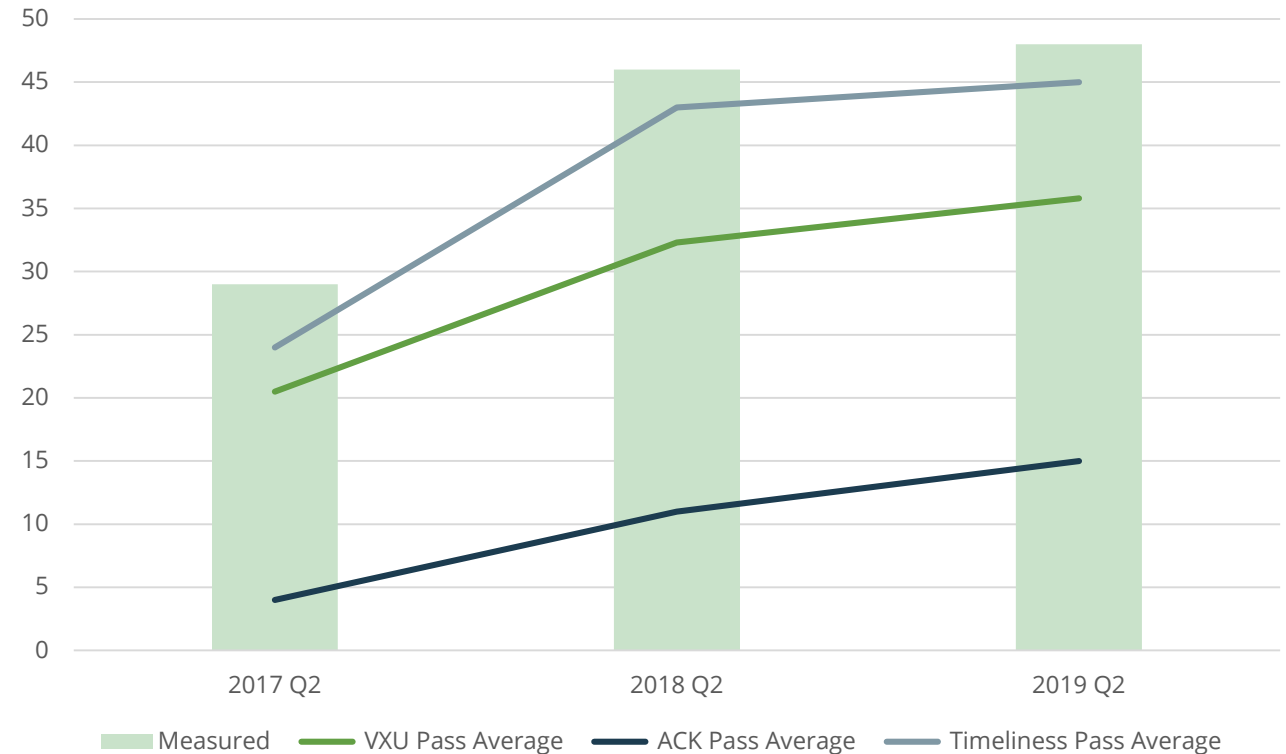
Submission and Acknowledgment Trends

- Successes

- 48 IIS have been assessed
- 36 IIS are validated at the Basic Level
- Removal of unnecessary local requirements

- Challenges

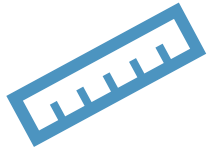
- Full ACK conformance
- Refusals, Adverse Events, Contraindications, and Immunities



Query and Response



- Background: Measures the IIS ability to respond to various queries to ensure consistent, standards-based communication between providers and IIS.
- Supported by:
 - Functional Standard 8.3
 - HL7 Implementation Guide release 1.5 and addendum



- Measured:
 - Both query types
 - Patient Not Found
 - Poorly formatted Query
 - Returned CDC-Endorsed Data Elements



- Not Measured:
 - Patient Matching, Consent, Record Consolidation, CDS

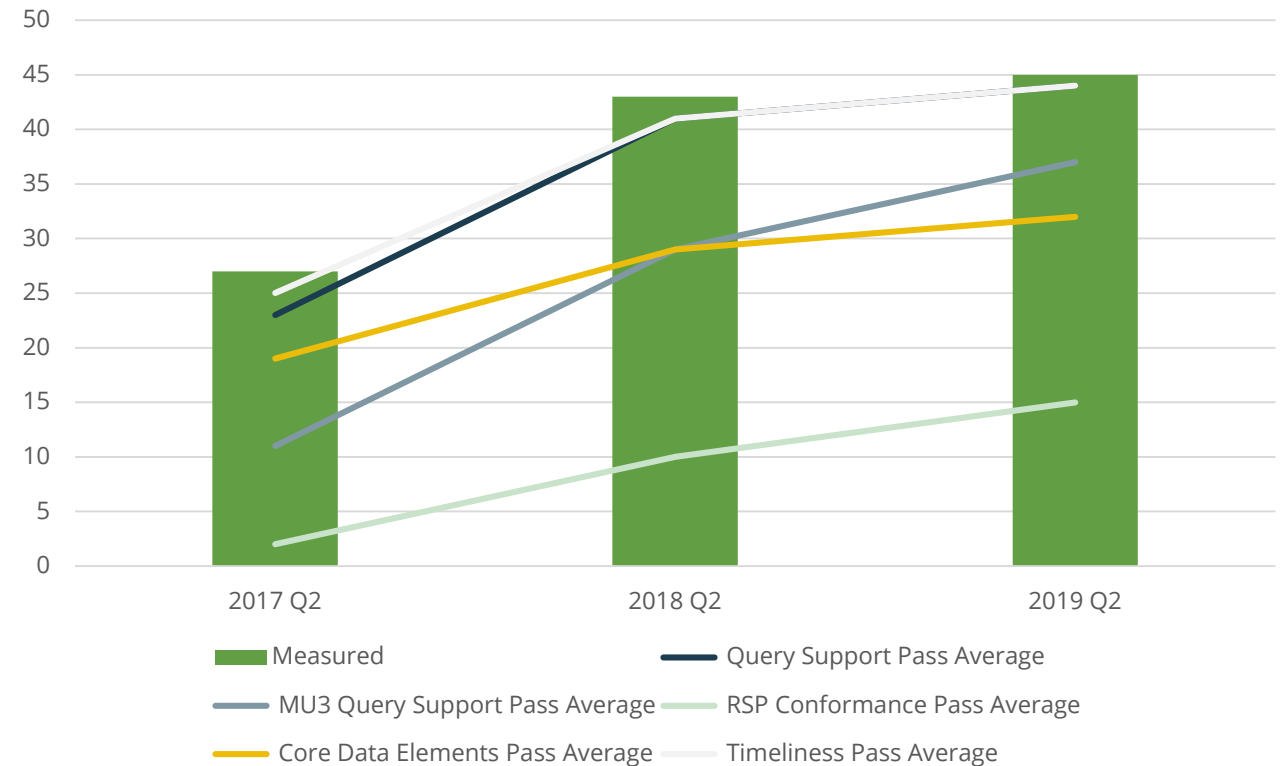
Query and Response Trends

- Successes

- 45 IIS have Q/R Capability
- MU3 Query Support is high

- Challenges

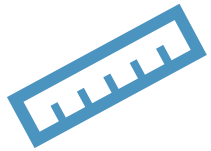
- Full RSP conformance



Clinical Decision Support (CDS)



- **Background:** Measures the IIS's Clinical Decision Support alignment with ACIP recommendations returned through HL7 Query/Response.
- Supported by:
 - Functional Standard 8.2, 8.3, and 10.0
 - HL7 Implementation Guide release 1.5 and addendum
 - CDC CDSi resources



- **Measured:**
 - Routine Age-based Recommendations (birth through death)
 - Catch-up Schedules



- **Not Measured:**
 - Risk-based Schedules, Contraindications, Immunities, HL7 Conformance, Patient Matching, Vaccine Matching

CDS Baseline Summary

- Successes

- 35 IIS were able to be measured (700+ test cases for each IIS)
- Nearly all returned Earliest Date and Recommended Date
- Most IIS did well on the whole

- Challenges

- Very few IIS returned Evaluation Status (e.g., Valid vs. Not Valid)
- Most IIS struggled with at least one or two Vaccine Families

Key areas within your topic that are frequently misunderstood

- How critical it is we show progress right now
- How easy some things are to change

Frequently asked questions

- Who decides what gets measured?
- Does the broader community get an opportunity to provide input on measures and tests?
- Who can use AART?
- Who gets to see my program's results?
- How does my program find resources to make these changes?
- Can vendors get Validated/recognized for their products?