

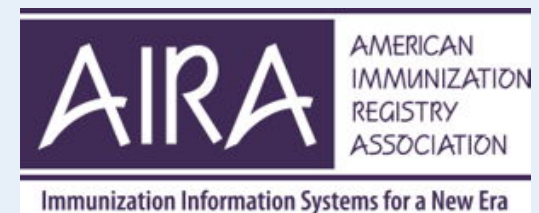
Something Old, Something New, Something Measured, Something Blue...

Current Uses and Future Plans for the IIS Functional Standards

Janet Fath, CDC

Bill Brand, PHII

Mary Beth Kurilo, AIRA & PHII



Topics to Address Today

- History and evolution of IIS guidance

Something Old...

- New and updated guidance

Something New...

- Uses and metrics for new guidance

Something Measured...

- Challenges in implementing guidance

Something Blue...

Something Old....

History and Evolution of IIS Guidance

COMMUNITY IMMUNIZATION REGISTRIES MANUAL

CHAPTER IV: OPERATIONS*

Prepared by

All Kids Count Program of the Task Force for Child Survival

**The National Immunization Program of the Centers for
Disease Control and Prevention**

March 14, 1997



IMMUNIZATION DATA TRANSACTIONS
USING THE HEALTH LEVEL SEVEN (Version 2.3)
STANDARD PROTOCOL

National Immunization Program
Data Management Division
Version 1.0.2

May 1997

with CVX Vaccine Table and MVX Manufacturer Table updated January 14, 1998

The Automated Immunization Evaluation Process: *Programmer's Guide*

GetRecommendation has the following structure:

```
{  
    SetDefaultMode();  
    Recommendation = GetEligibleVaccines( Series );  
    if ( Recommendation == RECOMMEND )  
    {  
        CheckOtherSeriesForEligibleVaccines();  
        Vaccine = SelectEligibleVaccineForRecommendation();  
    }  
    if ( Recommendation == UP_TO_DATE )  
        Date = SeriesReturnDate;  
    return Recommendation;  
}
```

Functional Standards, 2001-2013

IIS Functional Standards

Functional Standards intend to identify operational, programmatic, and technical capacities that all IIS should achieve.

Overview

- Formally **approved** by the National Vaccine Advisory Committee (NVAC)
- **Focus** of 317 funding, site visits, accountability, etc.
- **12 standards** focused on:
 - Core data elements
 - Timeliness
 - Access
 - Privacy, confidentiality, security
 - Exchange
 - Vaccine forecast
 - Data quality
 - Reports

Functional Standards, 2013-2018

IIS Functional Standards

Functional Standards intend to identify operational, programmatic, and technical capacities that all IIS should achieve.

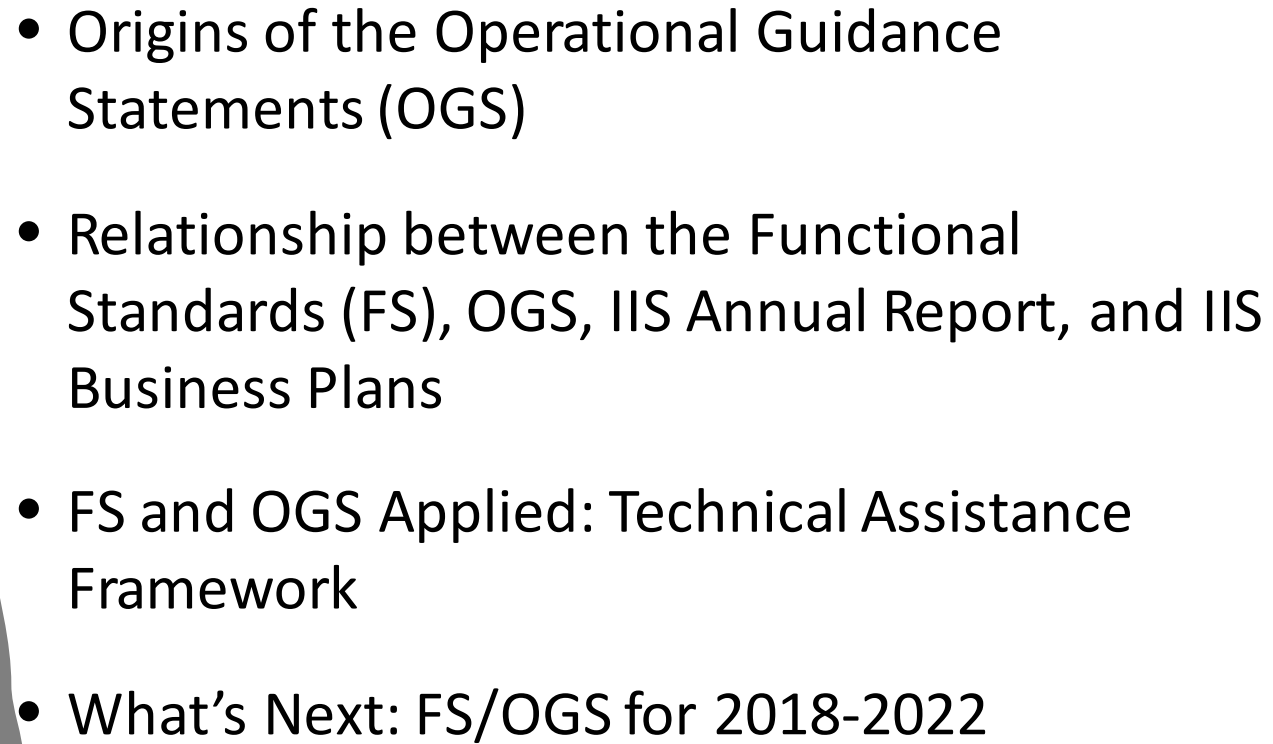
Major Updates for 2013-2018

- Six programmatic goals, and 27 functional standards
- Raised the bar
- Established as aspirational
- Lacked sufficiently concrete specificity in order to measure progress or to even know *how* to achieve the standards

Something New...

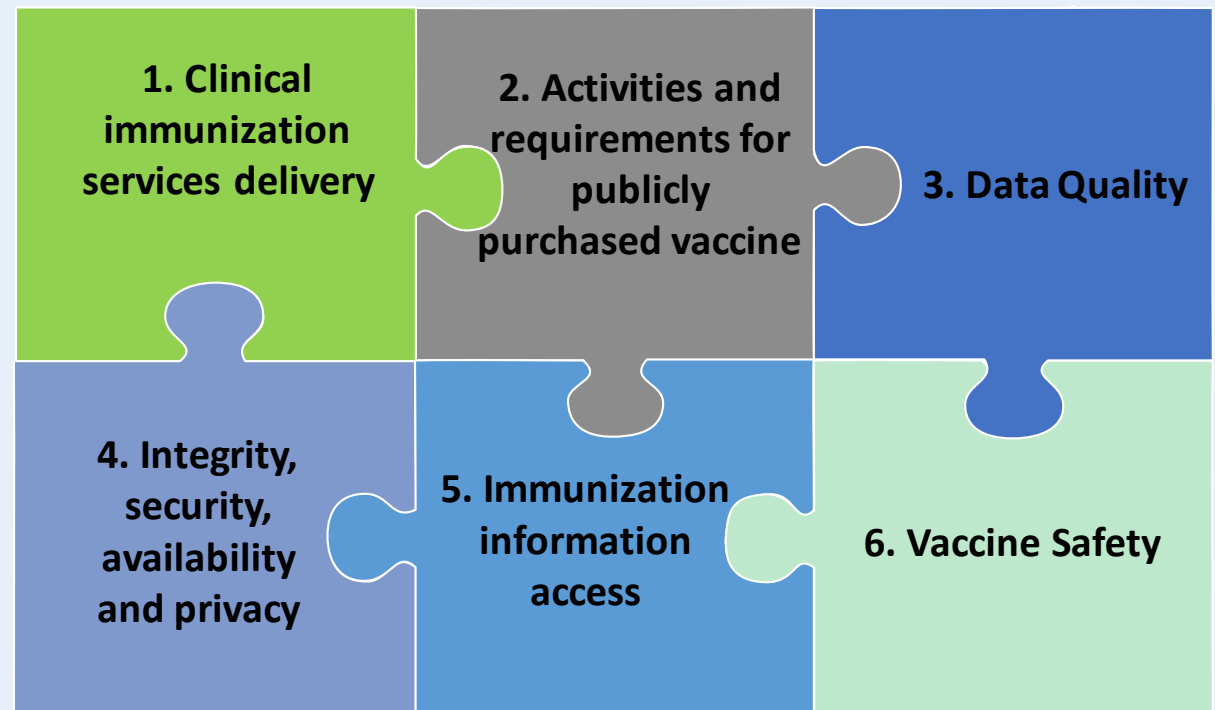
Operational Guidance Statements and New Uses of the Functional Standards

Topics to Address

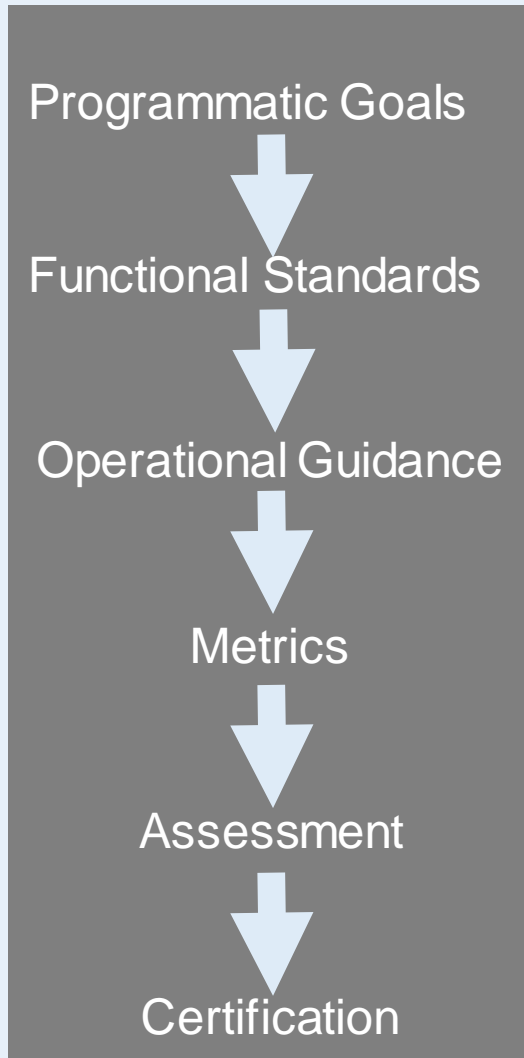
- 
- Origins of the Operational Guidance Statements (OGS)
 - Relationship between the Functional Standards (FS), OGS, IIS Annual Report, and IIS Business Plans
 - FS and OGS Applied: Technical Assistance Framework
 - What's Next: FS/OGS for 2018-2022

Providing Guidance and Monitoring Progress

- CDC's IIS Support Branch (IISB) is providing support to awardees through development of guidance tools and metrics that align to the IIS Functional Standards.
- IIS Functional Standards are used to identify operational, programmatic, and technical capacities that all IIS should achieve by the end of 2017, centered around six programmatic goals.



Process for Measuring Progress



- Historically, IIS Annual Report (IISAR) has been used to gather metrics and understand awardee progress as it relates to the Functional Standards (FS).
- This year, NCIRD is engaging a new way of understanding progress, through inclusion of Operational Guidance Statements (OGS) in the Awardee Business Plans.



Improving progress monitoring is key to achieving certification and gaining a better understanding of IIS capacity.

Tools for Measuring Progress



Operational Guidance Statements (OGS)

- OGS will be incorporated into awardee business plan guidance.
- OGS will help awardees hone in on the most impactful priorities to address each year.



Metrics Gathering

- Functional Standards (FS) metrics are in development, with the goal of capturing IIS progress toward achieving the programmatic goals.
- An awardee dashboard will conceptualize metrics, providing a summary of awardee progress, based on the FS metrics.



AIRA Assessment & Certification

- AIRA assessment provides independent and objective data on IIS programs, to drive quality improvement and alignment with FS.
- Certification may be a long-term goal, but objectively showcasing successes will help identify opportunities for awardees.

Process for Developing Draft Operational Guidance Statements (OGS)

Overview

IISB partnered with the Public Health Informatics Institute (PHII) to bring a group of subject matter experts (SME) together to create and define OGS

Goal

To inform an operational framework to serve as a stepping stone towards metrics, in an effort to make the IIS FS more specific and measurable

Attendees

- ✓ AIRA
- ✓ Envision
- ✓ Florida IIS
- ✓ Georgia IIS
- ✓ Hewlett-Packard
- ✓ HLN
- ✓ Michigan IIS
- ✓ North Dakota IIS
- ✓ STC

Process for Developing Draft Operational Guidance Statements (OGS): *Step 1*



CDC, PHII and AIRA partnered to create a draft version of OGS prior to in-person meeting



OGS were reviewed, modified by a representative group



Notes were captured on suggested future changes to FS themselves

Process for Developing Draft Operational Guidance Statements (OGS): *Step 2*

102 initial OGS were produced per this community process, refined by CDC, and released to the IIS Community in January 2016 in conjunction with Interim IIS Business Plan guidance.

IMPORTANT!

*The window for input is still open.
Ongoing feedback is welcomed and encouraged!*

How Are Functional Standards Applied in Immunization Programs?



Technical Assistance Examples



Operations Team, IIS Consultants

- Provide grant oversight, guidance on meeting FS/OGS
- Coordinate between IIS Support Branch and Program Operations Branch



Capacity and Standards Cooperative Agreements

- Provide support for standards adoption; operational, programmatic and technical development through committees; workgroups; products
- Direct Technical Assistance (TA) as guided by FS/OGS



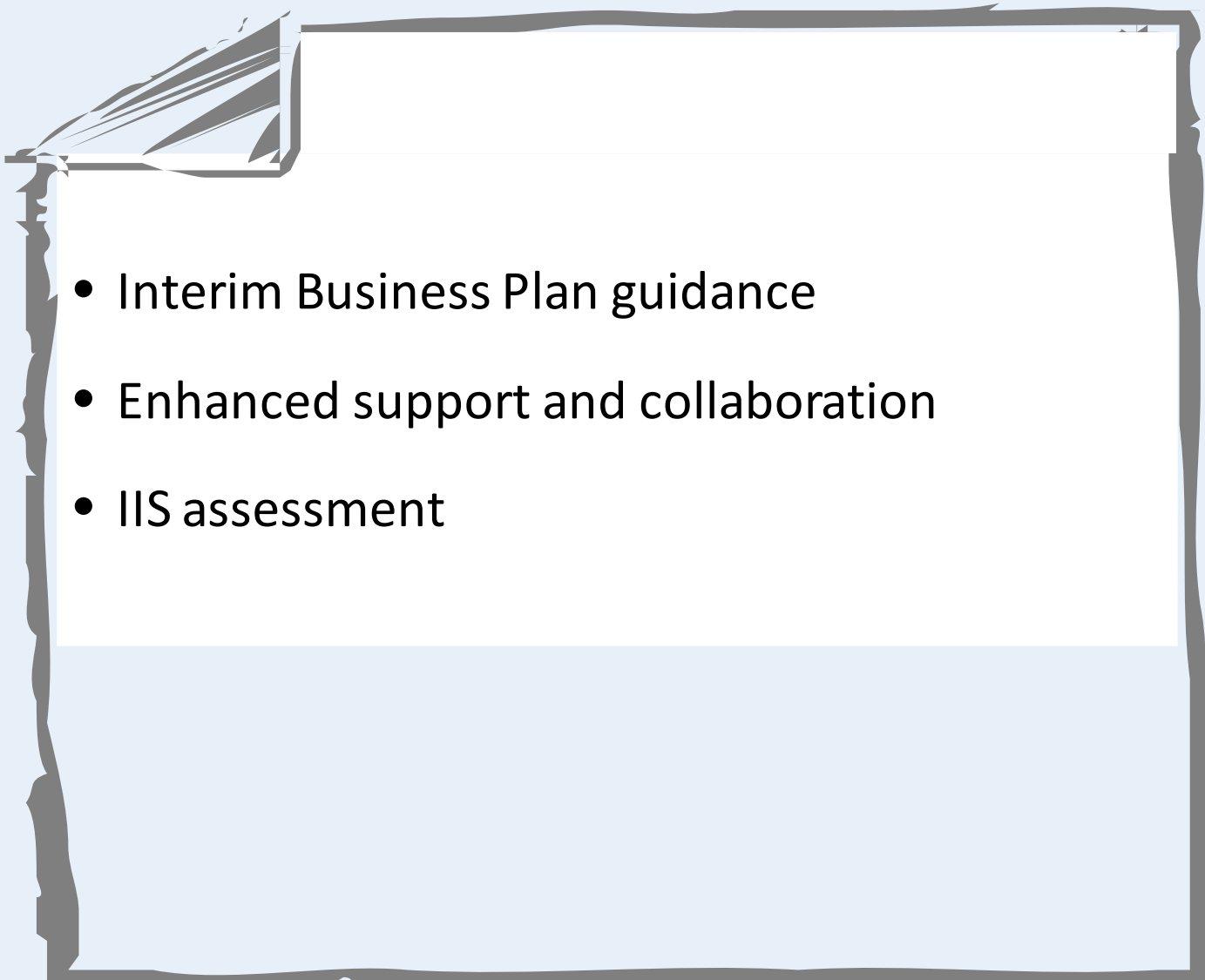
Enhanced Support & Collaboration

- Provide assistance on systems development, platform transitions, staffing levels as guided by FS/OGS

Something Measured...

The Functional Standards in Action

Topics to Address

- 
- Interim Business Plan guidance
 - Enhanced support and collaboration
 - IIS assessment

Interim Business Plan Guidance



CDC sent IIS business plan guidance that ties together:

- OGS for IIS FS
- Foundational IIS areas for 2016
- Awardee-specific status indicators
- Recommended actions and resources



This information should help awardees update their business plans:

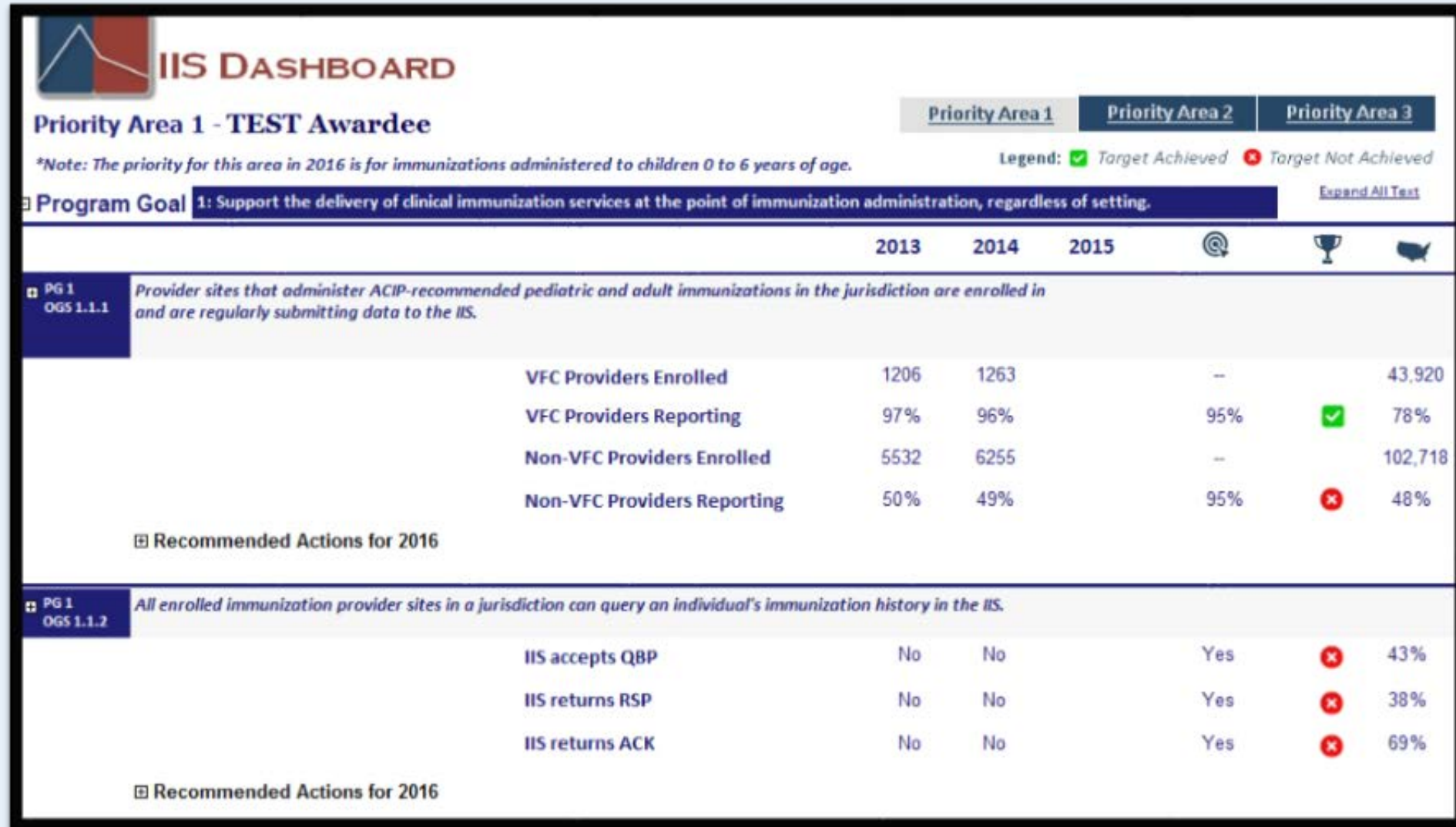
- Environmental scan
- Gap analysis
- Goals
- Objectives
- Activities

Interim Business Plan Guidance

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

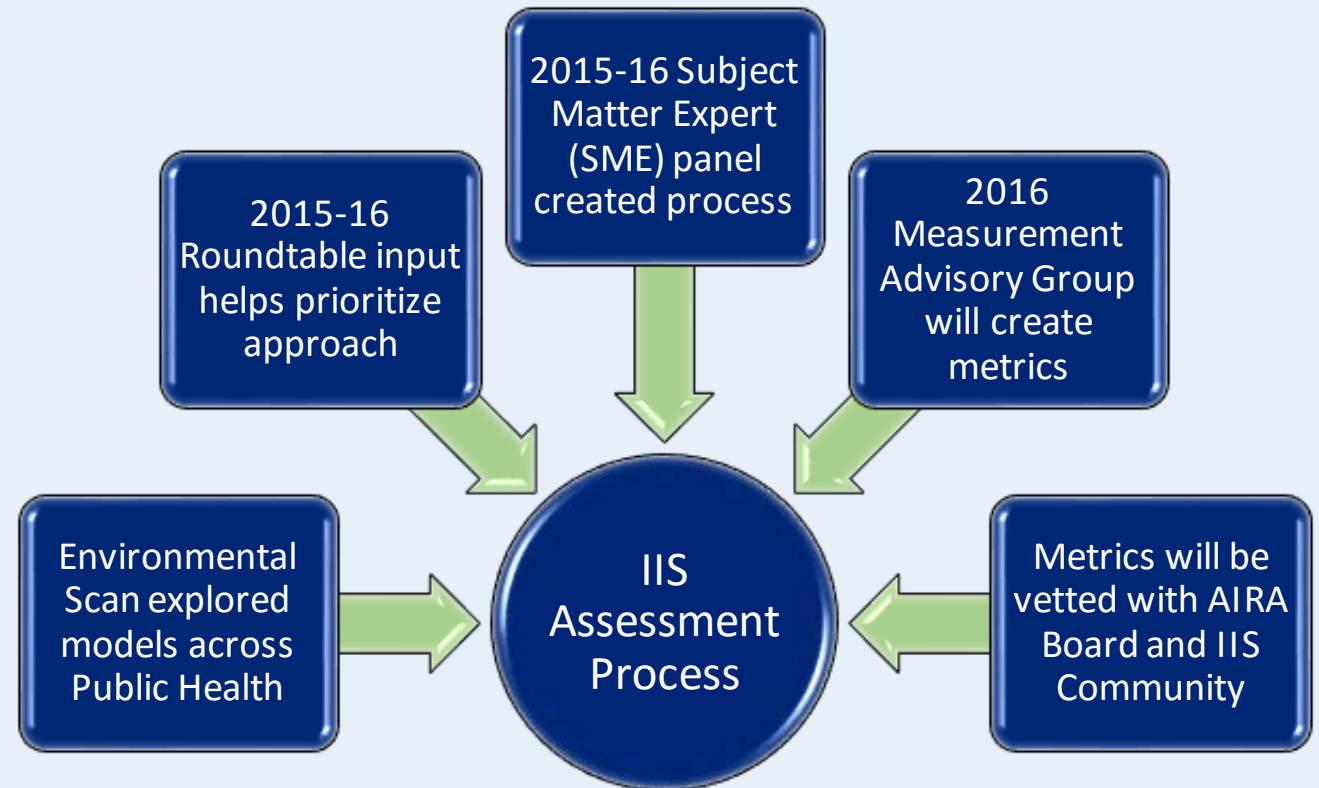
Operational Guidance Statements and Recommended Actions		Status								
1.1.1	<p>Provider sites that administer ACIP-recommended pediatric and adult immunizations in the jurisdiction are enrolled in and are regularly submitting data to the IIS.</p> <p>Note: The focus for 2016 is for immunizations administered to children 0 to 6 years of age.</p>	<p>IISAR 2014 values reported were as follows:</p> <table><tr><td>VFC Enrolled:</td><td>1873</td></tr><tr><td>VFC Reporting:</td><td>97.7%</td></tr><tr><td>Non-VFC Enrolled:</td><td>11941</td></tr><tr><td>Non-VFC Reporting:</td><td>86.0%</td></tr></table>	VFC Enrolled:	1873	VFC Reporting:	97.7%	Non-VFC Enrolled:	11941	Non-VFC Reporting:	86.0%
VFC Enrolled:	1873									
VFC Reporting:	97.7%									
Non-VFC Enrolled:	11941									
Non-VFC Reporting:	86.0%									
<p>Recommended Actions for 2016</p> <ul style="list-style-type: none">Follow the MIROW Data Quality Assurance in Immunization Information Systems: Selected Aspects guide to identify providers active in the IIS that should be inactivated.Identify and enroll pediatric immunizers in the jurisdiction not currently enrolled in the IIS. Note: Both VFC and non-VFC providers should be targeted for enrollment.Ensure that all enrolled pediatric providers are regularly submitting data to the IIS.										

Enhanced Support and Collaboration

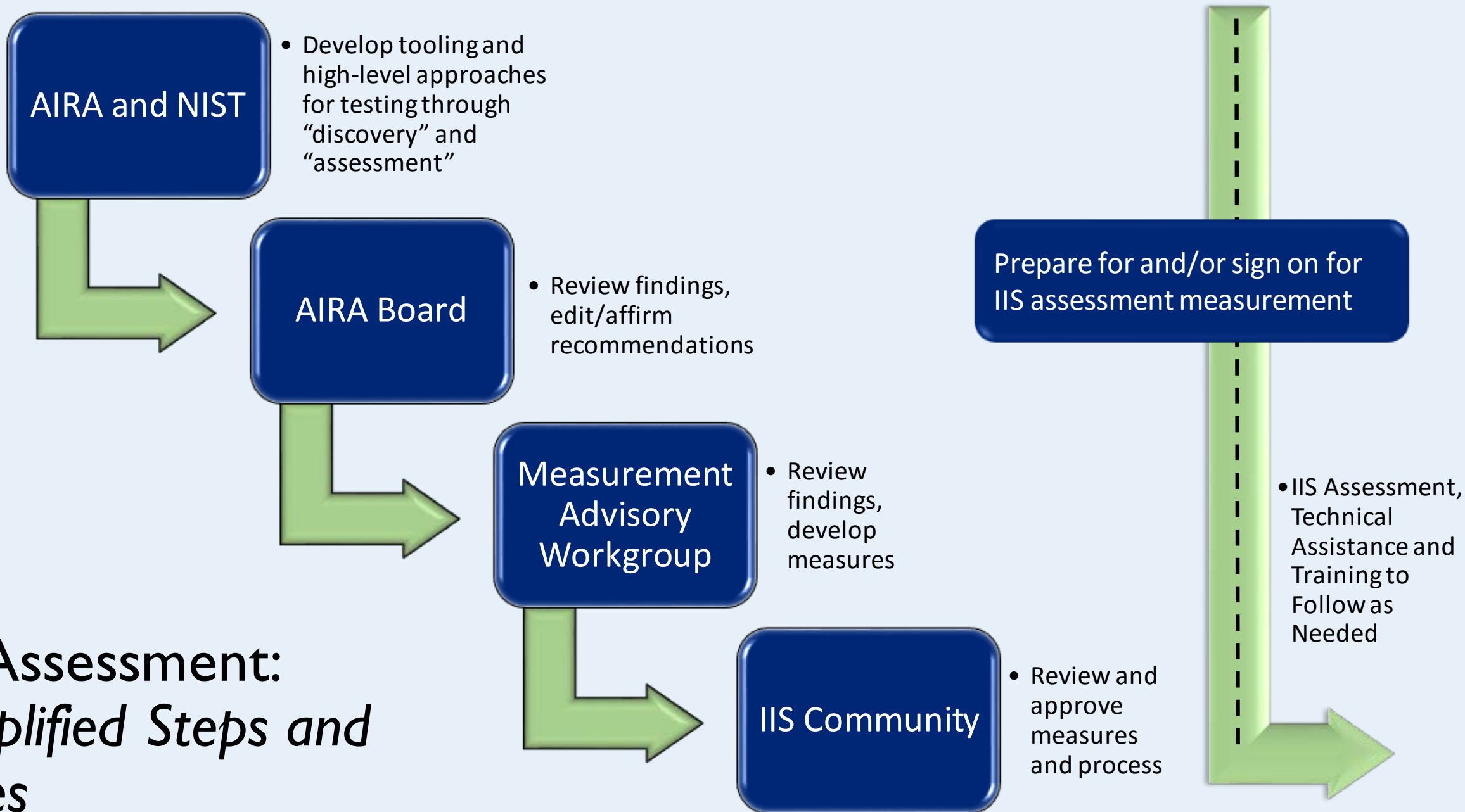


IIS Assessment

- **Goal:** Develop a community-driven, independent measurement process to assess IIS alignment with standards and best practices
- **Value:** Create multiple channels for input and feedback



IIS Assessment: *Simplified Steps and Roles*



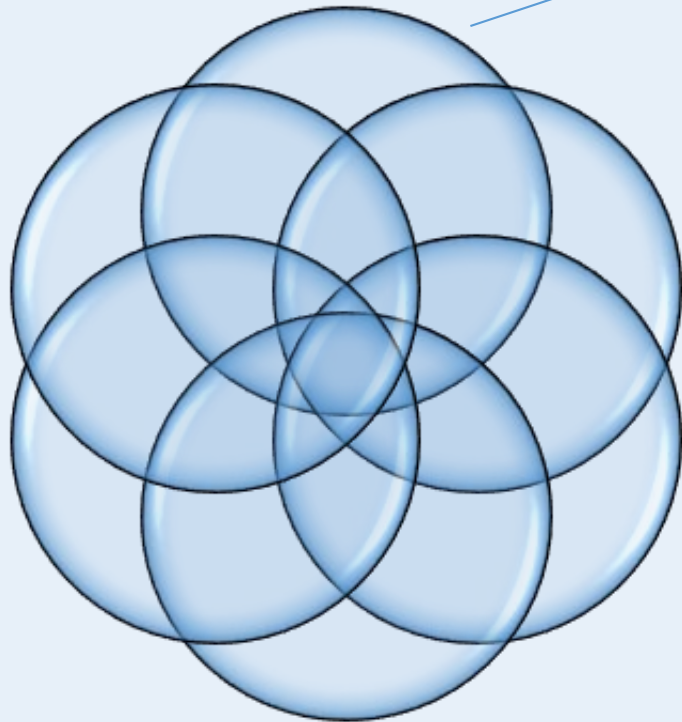
IIS Assessment Measurement Process:

A Quick Overview

Stages	Phases	Measure (example only)	Tests (example only)
<ul style="list-style-type: none">• Testing and Discovery• IIS Assessment• IIS Certification (future)	<ul style="list-style-type: none">• Transport• Message Content: VXU/ACK• Message Content: QBP/RSP• <i>Many more...</i>	<ul style="list-style-type: none">• Implement the CDC WSDL as one transport method	<ul style="list-style-type: none">• Connectivity test• Submit Single Message test• Security Fault test

Example: From a Functional Standard to Measures and Tests within IIS Assessment

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: 1) The IIS can connect to an EHR via SOAP/Web Services using the CDC WSDL, independent of the semantics of HL7.

Potential Tests: Connectivity test to “ping” IIS, Submit Single Message operation to carry an HL7 v2.x message, Security Fault to communicate message failure.

Something Blue...

Discussion of Priorities and Challenges

Small Group Discussions, Large Group Sharing

- What are your greatest challenges in achieving the functional standards fully?
- What strategies can the community adopt to address the challenges?
- Which of these challenges lend themselves to shared solutions or best practices?
- In particular, what can CDC and AIRA do to support your efforts?
- Can priorities be set among the functional standards that bring the most value to your jurisdiction?
- How do YOU set priorities for your program?

Next Steps/Informing Future Efforts

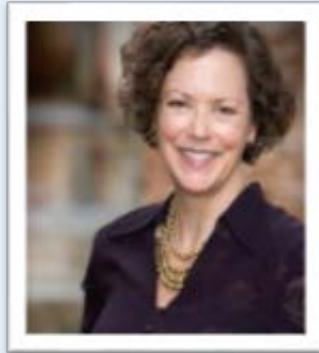
Information shared today will be captured and considered as part of two specific efforts:

- 1) Metrics being developed for current FS and OGS for the 2013-2017 timeframe
- 2) FS and OGS are being updated for the 2018-2022 timeframe

We welcome any further informal thoughts you have to share throughout the conference.

Following the conference, email iisinfo@cdc.gov with additional comments.

Thank You!



Janet Fath

Operations Team Lead, CDC

azf2@cdc.gov



Bill Brand

Director of Informatics Science, PHII

bbrand@phii.org



Mary Beth Kurilo

Policy and Planning Director, AIRA

mbkurilo@immregistries.org