



IIS Annual Report (IISAR) – Behind the Curtain

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American Immunization Registry Association 2019 National Meeting

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Behind the Curtain

- What is the IISAR?
- IIS SME Use of IISAR Data
- IISAR as a Promotional Tool
- Group Discussion
- Questions

“Pay no attention to the man behind the curtain!”
— L. Frank Baum, The Wonderful Wizard of Oz



Photo Credit: Rob Laughter,
<https://unsplash.com/@roblaughter>

What is the IISAR?

Lauren Shaw, CDC

"If we walk far enough," says Dorothy, "we shall sometime come to someplace." - L. Frank Baum, The Wonderful Wizard of Oz

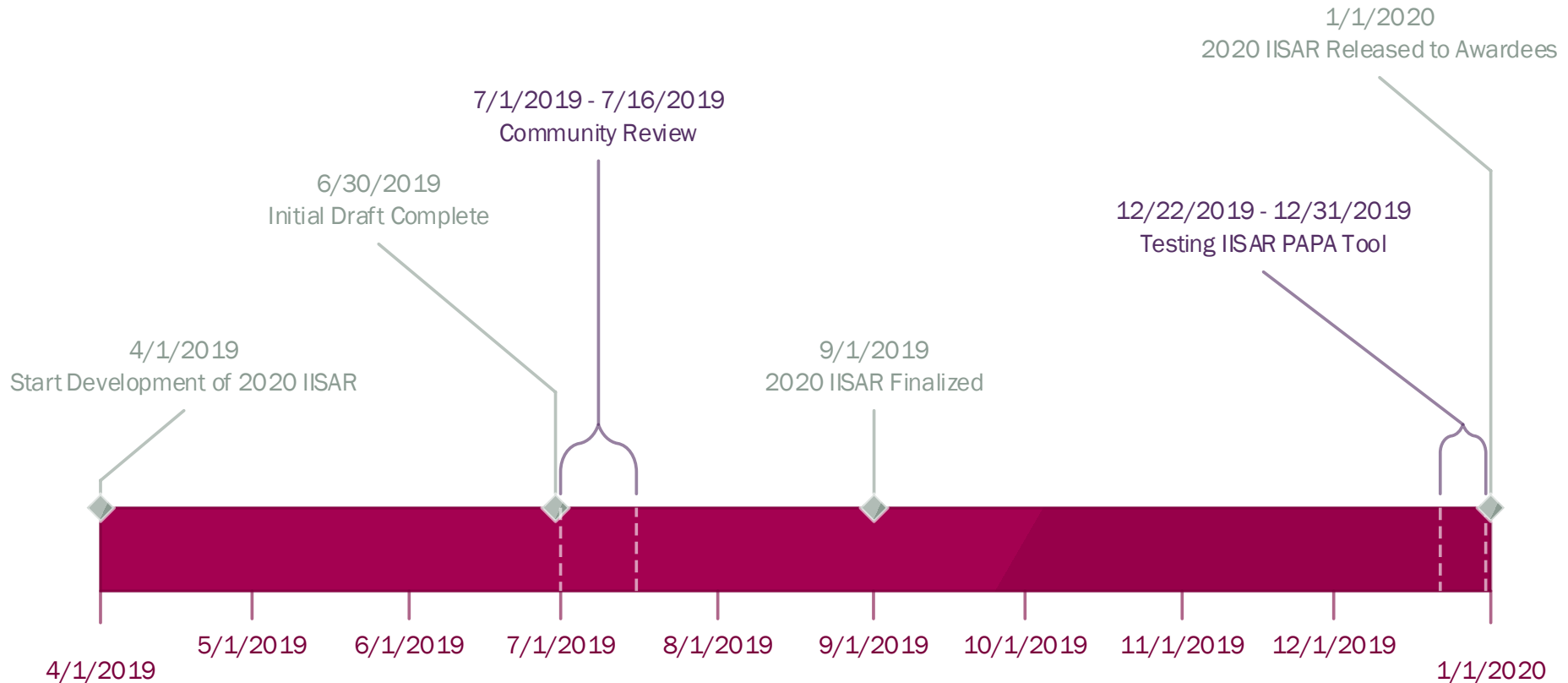


Photo Credit: Lucie Hošová,
<https://unsplash.com/@marjorylucabaxter>

The journey begins...

- IISAR is an annual, self-administered survey conducted by the CDC
- Evaluates Immunization Information Systems in 64 awardees
- Standardized way to compare individual systems
- More information:
<https://www.cdc.gov/vaccines/programs/iis/annual-report-iisar/index.html>

IISAR Development Timeline



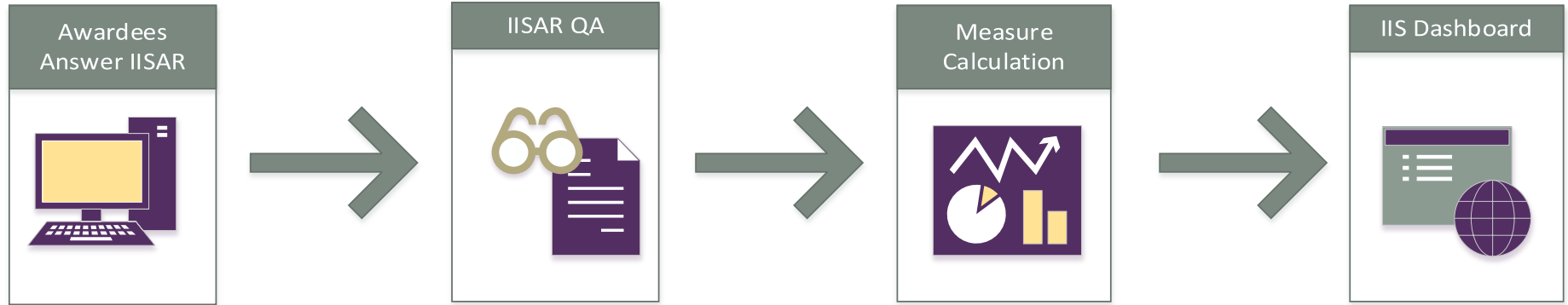
What is it used for?

- Measures progress
- Identifies areas for improvement
- Helps set program priorities
- Assists in policy-level decision making
- Selection criteria for CDC awardee special projects



Photo Credit: Thomas Drouault
<https://unsplash.com/@thomasdrouaultphotography>

From IISAR to Dashboard



IIS SME Use of IISAR Data

Bobbie Strickland, CDC

IISAR Populates the IIS Dashboard



Centers for Disease Control and Prevention
CDC 24/7: Saving Lives, Protecting People™

Immunization Information Systems (IIS) Dashboard

Query Parameters

Select query parameters and click the "Generate Report" button.

1. Select awardee:

Select Awardee ▼

2. Select measure(s):

☒ Predefined group:

All Measures ▼

☐ Ad hoc selection:

Select ad hoc measures ▼

3. Select timeframe:

☐ 2016

☐ 2017

☒ 2018

4. Select targets to display:

All Targets ▼

Reset

Generate Report

Quick Links to Individual Awardee Progress Reports

Select a state, city, or territory to view the Individual Awardee Progress Report for the most recent year of data.

[Alabama](#)

[Alaska](#)

[American Samoa](#)

[Arizona](#)

[Arkansas](#)

[California](#)

[Chicago](#)

[Colorado](#)

[Connecticut](#)

[Delaware](#)

[District of Columbia](#)

[Florida](#)

[Georgia](#)

[Guam](#)

[Hawaii](#)

[Houston](#)

[Idaho](#)

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[Maryland](#)

[Massachusetts](#)

[Michigan](#)

[Micronesia](#)

[Minnesota](#)

[Mississippi](#)

[Missouri](#)

[Montana](#)

[N. Mariana Islands](#)

[Nebraska](#)

[Nevada](#)

[New Hampshire](#)

[New Jersey](#)

[New Mexico](#)

[New York City](#)

[New York State](#)

[North Carolina](#)

[North Dakota](#)

[Ohio](#)

[Oklahoma](#)

[Oregon](#)

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[South Carolina](#)

[South Dakota](#)

[Tennessee](#)

[Texas](#)

[Utah](#)

[Vermont](#)

[Virgin Islands](#)

[Virginia](#)

[Washington](#)

[West Virginia](#)

[Wisconsin](#)

[Wyoming](#)

IIS Dashboard: Individual Awardee Progress Report

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

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- Helps the IIS SME identify where awardee is meeting targets and should plan for maintenance activities and where they are not meeting targets and should plan for activities to build capacity in the associated areas

Query Parameters

Selected Measure(s): All Measures
Targets Displayed: All Targets
Timeframe: 2018

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" link.

For questions or special accommodations regarding the IIS Dashboard, please contact IISinfo@cdc.gov.

Legend

⊗ Targets Not Achieved
★ Targets Achieved
N/A Not Applicable

Functional Standards / Measures	Year: 2016	Year: 2017	Year: 2018	2018 Target Achieved	Target	% Awardees Meeting Target in 2018
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 calendar year that had a record established in the IIS within 30 days of birth.	69.4%	70.0%	72.0%	⊗	95%	17.2%
1.1.2 Percentage of doses for vaccinations administered in the calendar last year that were reported for persons aged 0 through 18 years within 1 day.	90.9%	94.6%	92.1%	★	90%	10.9%
1.1.3 Percentage of children in the IIS that were born in the last calendar year residing in the IIS's jurisdiction at the time of query that have records created in the IIS from all sources.	97.6%	97.3%	No Data	N/A	95%	
1.2.1 The IIS identifies records created from vital records.	No	No	No	⊗	Yes	82.8%
1.3.1 Percentage of individuals of all ages (lifespan) in both your jurisdiction and your IIS.	No Data	85.4%	No Data	N/A	95%	
1.3.2 Difference between IIS coverage estimate for children aged 19-35 months who are in both your jurisdiction at the time of query AND in your IIS who have completed the 4:3:1:3:3:1:4 (7 vaccine series) and the respective NIS coverage estimate.	7.0%	0.1%	No Data	N/A	-10%	
1.3.3 Difference between IIS coverage estimate for adolescents aged 13 through 17 years who are in both your jurisdiction at the time of query AND in your IIS who have at least one dose of Td/Tdap and the respective NIS Teen coverage estimate.	4.7%	6.9%	No Data	N/A	-10%	
1.3.4 Difference between IIS coverage estimate for adults aged 18 years or older in both your jurisdiction AND IIS at the time of query who have at least one dose of influenza vaccination and the respective BRFSS coverage estimate.	No Data	8.7%	No Data	N/A	-15%	

IIS Dashboard (CDC version) – Use of IIS to Support Immunization Program Areas

- IIS SME uses the information to determine areas the awardee is and is not using their IIS to meet programmatic needs

Immunization Information Systems (IIS) Dashboard Louisiana Multiple Measure Group Comparison Report

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This report shows how well the selected awardee's IIS achieves targets associated with groups of related measures^{1, 2}.

To determine how well an awardee's IIS is performing relative to established targets for measures in a given group, generate the Individual Awardee Progress Report with the predefined measure group as a query parameter.

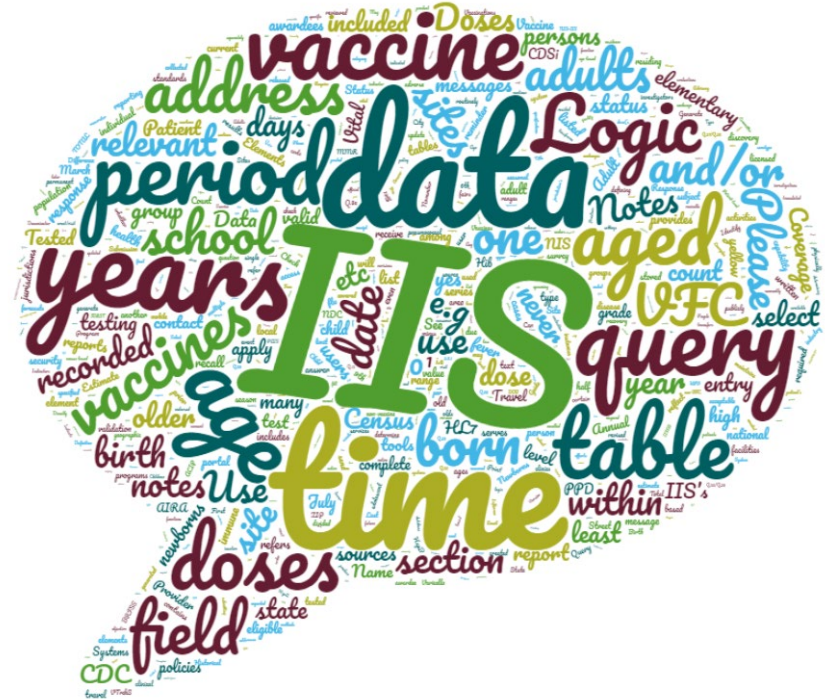
Measure Group	2016	2017	2018
IPOM B -- Program Effectiveness	78% 14/18	78% 18/23	80% 18/20
IPOM C -- Vaccine Access and Management	80% 8/10	92% 24/26	89% 24/27
IPOM D -- IIS Bidirectional Data Exchange	No Data	67% 2/3	50% 3/6
IPOM D -- IIS Clinical Decision Support	100% 1/1	100% 5/5	100% 5/5
IPOM D -- IIS Coverage	71% 10/14	85% 28/33	87% 28/30
IPOM D -- IIS Data Completeness	76% 13/17	75% 18/24	75% 15/20
IPOM F -- Provider Quality Improvement	100% 2/2	100% 7/7	100% 6/6
IPOM G -- Surveillance and Outbreak Response	75% 6/8	80% 16/20	83% 20/24
IPOM H -- Perinatal Hep B Prevention	No Data	100% 2/2	100% 2/2
IPOM I -- Pandemic Influenza Distribution Planning	75% 3/4	93% 14/15	94% 18/17
IPOM J -- School Vaccination Coverage	No Data	100% 3/3	100% 6/6
IPOM K -- Adolescent Immunization	71% 5/7	82% 6/11	75% 6/8

IISAR as a Promotional Tool

Mary Beth Kurilo, AIRA

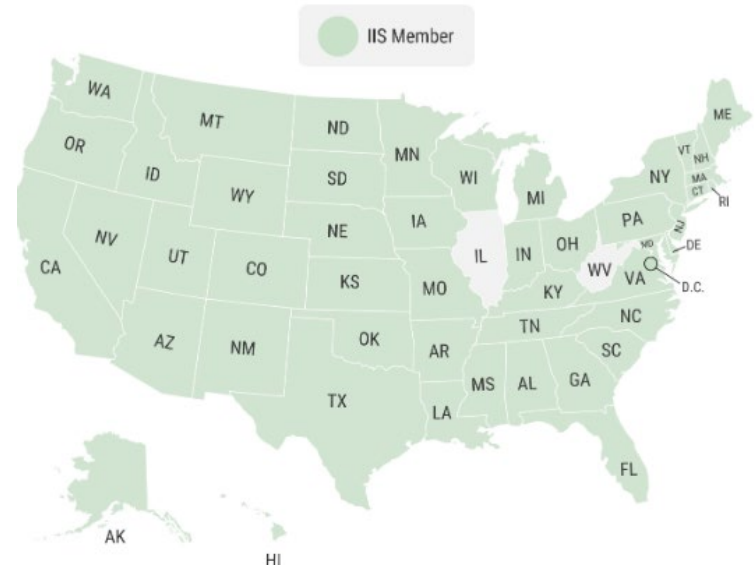
IISAR on the National and International Stage

- The IISAR gives a snapshot of the IIS community and the data housed within our systems
- It helps us tell the stories of our systems' successes and utility across a broad range of audiences



Who Are These Audiences?

- AIRA!
 - Internal uses: Program planning, initiative planning, understanding our members and our community
 - External uses: Informing Discovery Session series, Education Steering Committee webinars, regional meetings, trainings, national meeting content



Broader Audiences

- Domestic Partners and Stakeholders
 - Office of the National Coordinator for Health IT (ONC), Centers for Medicare and Medicaid Services (CMS)
 - Comments on federal proposals and regulation
 - Health Information Management and Systems Society (HIMSS)
 - Health IT Week
 - HIMSS/AIRA Collaborative



Broader Audiences

- Global Partners and Stakeholders
 - World Health Organization (WHO), European CDC (ECDC), Pan American Health Organization (PAHO), CDC's Global Immunization Division (GID), and others
 - Ministries of Health exploring expansion, modification, development of Electronic Immunization Registries (EIRs)
 - Kenya, Spain



The Importance of Comparability





IISAR Results, Driven by the Functional Standards, Help Frame AIRA's Measurement and Improvement Initiative Measures

Content Area

Transport

Testing & Discovery

Assessment

Validation

Submission / Acknowledgement

Testing & Discovery

Assessment

Validation

Query / Response

Testing & Discovery

Assessment

Validation

CDS

Testing & Discovery

Assessment

Data Quality

Testing & Discovery



Consistency Leads to Strong Interoperability, Improving Data and Functionality for Coverage Rates



Group Discussion

Group Discussion

- Pair Up, ideally with someone from another jurisdiction or organization
- Discuss and make notes on IISAR Uses Worksheet



Questions

- How do you currently use IISAR data?
 - Potential examples
 - Use strong participation numbers to demonstrate that full submission and query are the standard of care
 - Show where you are leading across your peer group/neighboring states
 - Show where you are trailing, and need additional resources to address
- Where might you plan to use IISAR data in the future?

Share and Report Out



Suggestions for Future IISAR Analysis

- Do you have any suggestions for how you would like to see this data presented in the future?



Questions?



Thank You!!

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For more information, contact CDC
1-800-CDC-INFO (232-4636)
TTY: 1-888-232-6348 www.cdc.gov

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.

