American Immunization Registry Association

ANNUAL REPORT

OCTOBER 1, 2018 – SEPTEMBER 30, 2019

AIRA
AMERICAN IMMUNIZATION
REGISTRY ASSOCIATION

Celebrating 20 Years of Advancing IIS Together

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WELCOME

Hello, AIRA Community—

In 2019, AIRA celebrated its 20th anniversary. It is truly remarkable to think about how far technology, IIS in particular, and AIRA as an organization have come during this time. AIRA inherited a rich history of collaboration among registry and immunization information system projects that is still very much a part of our culture today. I want to thank all of those who have been involved in making our IIS community more robust. Here's to another amazing 20 years!

Rebecca Coyle
AIRA Executive Director

Dear AIRA Friends,

Serving as president of AIRA's board of directors during the 2019 fiscal year was an honor and a privilege. I am continuously astounded by the level of dedication, creativity, foresight, and collaboration contributed by all of you. I am grateful for AIRA's funders' continued investment in this vital public health community. I am thankful for AIRA's amazing staff, who, once again, have supported us through another year with grace and tenacity. This annual report is but a snapshot (no pun intended!) of the fantastic work the AIRA community is known for. I encourage you to find inspiration in its pages and to remember that you are what makes this organization the gem that it is. We've accomplished a lot, but there is so much we can still achieve together. Here's to the future!

Mandy Harris
Nevada State Immunization Program
AIRA President 2018–2019

VISION

To facilitate the sharing and use of immunization information by all partners and ensure that immunization information systems are fully supported and represented.

MISSION

To promote and support the use of immunization information to ensure healthy communities.

PURPOSE

To support and promote the development, implementation, and interoperability of immunization information systems through partnerships, peer and professional education/training, and resource development.

STRUCTURE

AIRA is more than just its dedicated staff and board members. Many of AIRA's initiatives are created and carried out by members who participate on AIRA steering committees, workgroups, and user groups.

0**2**	0**3**	0**4**
Workgroups	User Groups	Steering Committees

13	**17**
Board Members	AIRA Staff Members
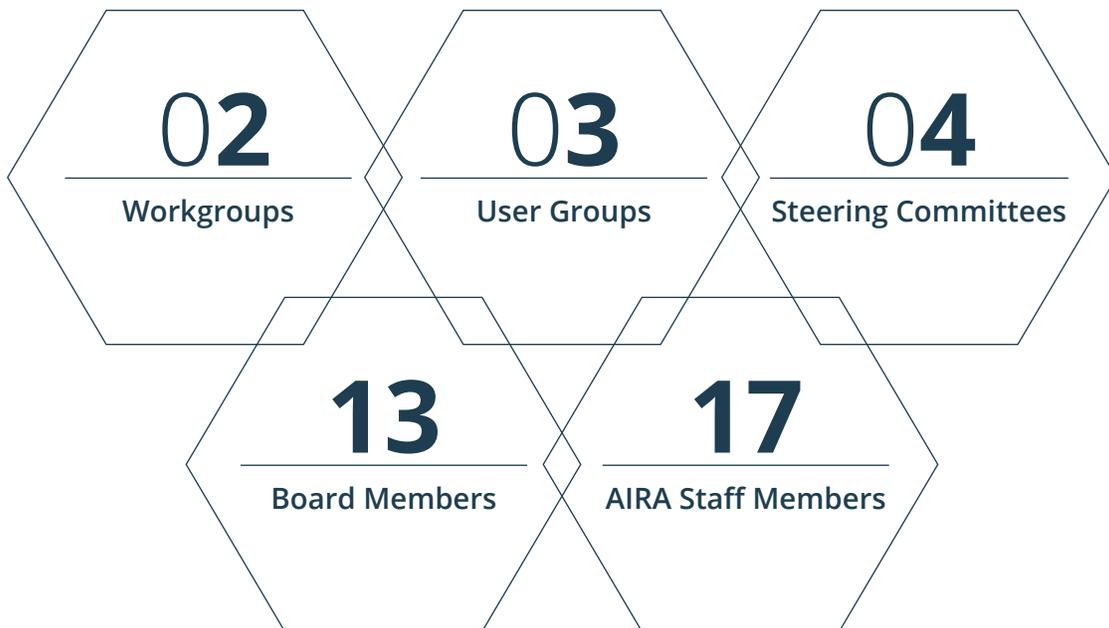
STEERING COMMITTEES

AIRA's **Steering Committees** guide the development of projects and activities in four key areas: assessment, education, best practices, and interoperability.

- Assessment Steering Committee (ASC)
- Education Steering Committee (ESC)
- Modeling of Immunization Registry Operations Workgroup (MIROW)
- Standards & Interoperability Steering Committee (SISC)

WORKGROUPS

AIRA has two standing **Workgroups** that manage specific projects to support the needs of the organization and the IIS community.

- Joint Development & Implementation Advisory Workgroup (JDI)
- Measurement for Assessment and Certification Advisory Workgroup (MACAW)

USER GROUPS

AIRA's three **User Groups** bring community members together to discuss specific issues they have in common.

- HL7 Immunization User Group
- Awardee-Developed Joint Development User Group
- Address Cleansing and Geocoding User Group

STRUCTURE

AIRA BOARD

OFFICERS/EXECUTIVE COMMITTEE MEMBERS

Board President
Mandy Harris – Nevada

President Elect
Aaron Bieringer – Minnesota

Immediate Past President
Kim Salisbury-Keith – Rhode Island

Secretary
Jenne McKibben – Oregon

Treasurer
Heather Roth – Colorado

Member-at-Large
David McCormick – Indiana

VOTING DIRECTORS

Nathalie Hartert – Tennessee

Jeffrey McIntyre – Mississippi

Christy Gray – Virginia

Dannette Dronenburg – Washington

Bridget Ahrens – Vermont

NON-VOTING DIRECTORS

Steve Murchie
Envision Technology Partners

Kevin Dombkowski
University of Michigan

AIRA STAFF

BUSINESS TEAM

Rebecca Coyle
Executive Director

Amanda Dayton
Business and Grants Manager

Jolyn Preston
Executive Assistant

STANDARDS & TECHNICAL TEAM

Mary Beth Kurilo, *Policy and Planning Director*

Nathan Bunker, *Senior Technical Project Manager*

Nichole Lambrecht, *Senior Project Manager*

Eric Larson, *Senior Technical Project Manager Consultant*

Tracy Little, *Technical Analyst Consultant*

Maureen Neary, *Senior Project Manager*

Kristi Siahaya, *Senior Project Manager*

PROGRAM TEAM

Alison Chi, *Program Director*

Amanda Branham, *Membership Coordinator*

Carmela Gupta, *Senior Program Manager*

Brittany Gyer, *Administrative Coordinator*

Beth Parilla, *Senior Program Manager*

Ketti Turcato, *Program Manager*

Kim Rutland, *Administrative Assistant*

AIRA's staff has over
160 YEARS
of combined experience working with IIS and immunization programs.

COMMUNITY

AIRA provides a forum through which members combine efforts, share knowledge, and promote activities to advance IIS and immunization programs. AIRA's members are IIS staff working in health departments, IIS implementers, individuals, and nonprofit organizations. AIRA's supporting members include for-profit organizations committed to AIRA's mission.

In 2018–2019,
AIRA had 539 members, representing:

59	**6**	**7**	**6**	**8**
IIS Jurisdictions	Individuals	Nonprofit Organizations	IIS Implementers	For-Profit Organizations

> " AIRA... is a stellar exemplar of what a public health membership association can do for its members in helping the community work together, to learn together, to share, to grow together, in achieving a really important mission. "
>
> **Bill Brand,** *Public Health Informatics Institute*

The benefits of AIRA membership include:

✓ Unlimited access to all AIRA educational materials, including webinars, guidance and best practice documents, presentations, published standards, and videos

✓ A chance to give input on issues affecting the IIS community

✓ Priority technical assistance from AIRA's staff

✓ Access to SmartyStreets, an address cleansing and geocoding service

✓ Registration discounts at the annual AIRA National Meeting

✓ The opportunity to collaborate with partners and stakeholders

✓ Educational, training, and peer-to-peer networking opportunities

ADVOCACY

AIRA strives to be a champion for and the voice of the IIS community. To meet this goal, AIRA actively engages partners through a three-step process, described below.

MONITOR

AIRA identifies issues and trends that have the potential to impact IIS by attending and participating in stakeholder meetings across the country, such as:

- **Adult Vaccine Access Coalition (AVAC)** – which is working to bolster the IIS infrastructure and adult immunizations
- **National Association for Public Health Statistics and Information Systems (NAPHSIS)** – which is working to better define privacy/security concerns and trends
- **Advisory Committee on Immunization Practices (ACIP)** – which makes vaccination recommendations that must be translated into actionable clinical decision support in IIS

ENGAGE

AIRA gathers feedback from participating members and stakeholders on key issues. AIRA does this in a variety of settings, including:

- **Regional workshops** – where AIRA members are able to discuss their IIS challenges, learn from their peers, and receive training
- **Comments process** – where community input is sought on national initiatives, guidance, and proposed rules impacting IIS
- **Partner meetings** – where information on IIS is shared, thoughtful discussions are held, and partnerships are formed

SHARE

AIRA elevates IIS successes, needs, and challenges to the national stage to ensure that IIS are fully supported and represented. Examples of organizations AIRA has partnered with include:

- **National Vaccine Advisory Committee (NVAC)** – where successes of the Measurement and Improvement Initiative were shared, demonstrating IIS's adherence to standards
- **Immunization Barriers Steering Committee (NASHP)** – where information about IIS was shared with a broader, immunization-focused group
- **Unity Consortium** – where the role IIS can play in evaluating change through data was shared with a group focused on adolescent immunizations

During the past year, AIRA staff have attended countless key stakeholder meetings with partners whose missions mirror our own: **promoting and supporting IIS to ensure healthy communities.**

EDUCATION

AIRA is committed to promoting the development and implementation of IIS and does so by providing ongoing education and training. AIRA collaborates with subject matter experts within the IIS community to develop issue-specific education programs and resources on topics based on our members' needs.

Every other year, AIRA evaluates the training and education needs of the IIS community. The results from the 2019 survey indicated there are widespread educational needs on the topics of data quality, technical capacity, data use, and data sharing.

AIRA employs a variety of methods to educate the IIS community, including:

IN-PERSON MEETINGS
AIRA hosted a national meeting in Indianapolis, Indiana, and regional workshops in Boise, Idaho; Nashville, Tennessee; and Denver, Colorado that were attended by **507 participants.**

INTERACTIVE CALLS
AIRA held four town hall meetings and six member and partner calls to discuss issues impacting the IIS community. These calls were attended by **740 people.**

ONLINE TRAINING
AIRA hosted 15 different educational webinars on a wide range of topics that were attended by **1,081 participants.**

NEWSLETTERS
Twelve issues of AIRA's Monthly Update and four issues of the SnapShots newsletter were published and distributed to **1,405 individuals** interested in IIS.

TRAINING VIDEOS
Two new short training videos were added to the repository on the topics of clinical decision support and query assessment.

COLLABORATIVE OPPORTUNITIES
Last year, 10 member jurisdictions submitted information request questions to the IIS community and 32 members jurisdictions responded with their insight.

> **"** I have to commend you on becoming one of the preeminent learning communities in public health. **"**

David Ross, *CEO/President,*
The Task Force for Global Health

NATIONAL MEETING

The AIRA National Meeting is an annual gathering of the IIS community. The AIRA 2019 National Meeting was held August 13–15 in Indianapolis, Indiana. This three-day event embodies what distinguishes the IIS community—the widespread commitment to share solutions and advance IIS together.

425
Attendees

94%
of IIS jurisdictions attended
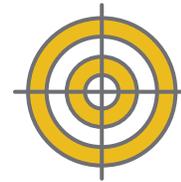
97%
of attendees found the meeting's content to be relevant to their work

The meeting featured

40 BREAKOUT SESSIONS

AND

94 UNIQUE PRESENTATIONS

on a variety of engaging and relevant topics

MEETING TOPICS ▶

Data Quality

Interoperability

Outbreak Response

Standards and best practices

Global Perspective

Sustainability and IIS management

Data Use and Data Sharing

Technical capacity

NATIONAL MEETING

Since 2012, AIRA has seen a

67%

INCREASE in the number of National Meeting attendees.

Attendees

255

425

20 12 | 20 13 | 20 15 | 20 16 | 20 17 | 20 18 | 20 19
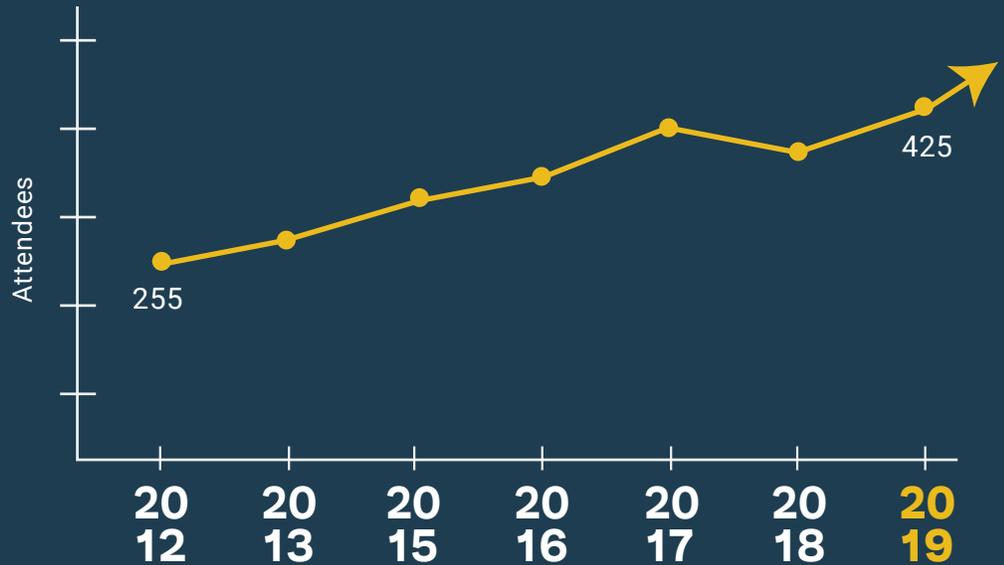
CHEERS TO 20 YEARS!

AIRA hosted a reception during the National Meeting to commemorate AIRA's 20th anniversary. The reception celebrated the work AIRA and the IIS community have accomplished over the past two decades.

AWARD WINNERS

Lifetime Achievement Awards:
Elaine Lowery and Warren Williams

Centers of Excellence Award:
Louisiana Office of Public Health Immunization Program (LINKS)

Volunteer Service Awards:
Jane Zucker, *New York City Department of Health and Mental Hygiene*

Mary Woinarowicz, *North Dakota Department of Health*

Steve Hill, *Cerner*

Danny Wise, *Allscripts*

> These meetings elevate the whole community. I learned so much and made great connections with other states.
>
> **Anonymous,** *AIRA National Meeting Evaluation*

RESOURCES

From inception to product release, AIRA works collaboratively with the IIS community to create a broad range of guidance documents. We utilize member and partner engagement throughout the process by identifying relevant topics and gathering expert insights. This process leads to the creation of educational resources that are relevant to the community's needs.

AIRA developed a variety of guides during the 2018−19 fiscal year to support IIS readiness and performance, including:

Onboarding Consensus-Based Recommendations

Use to re-evaluate, improve, or streamline current onboarding protocols
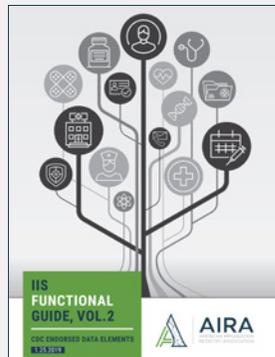
IIS Functional Guide, Vol. 2: CDC Endorsed Data Elements

Use to clarify definitions and attributes of 35 CDC-endorsed data elements

IIS Data Quality Practices – To Monitor and Evaluate Data at Rest

Use to improve IIS data at rest with specific indicators of quality and recommended thresholds
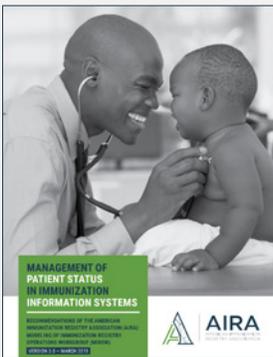
Management of Patient Status in Immunization Information Systems

Use to design new patient status functionality and to evaluate current implementation of patient status in the IIS

Patient Status in Immunization Information Systems

Use to address the issue of denominator inflation

Importing Legacy Data to Improve IIS Saturation

Use to improve IIS data saturation through legacy data loads

RESOURCES

AIRA IIS One-Sheets

Use to educate a variety of audiences or for local outreach efforts
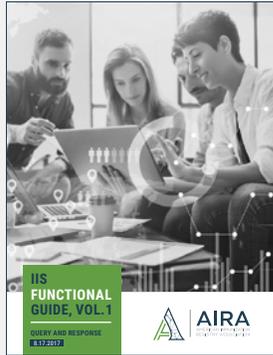
Compiled Multi-jurisdictional Memoranda of Understanding for IIS Interjurisdictional Exchanges

Use to view all IIS who have signed on to the multijurisdictional document

Template Memorandum of Understanding for IIS Interjurisdictional Exchange

Use to facilitate data exchange among IIS

TECHNICAL RESOURCES

Guidance on Populating OBX-14

Use to understand how to message the date and time of a vaccine event as part of an HL7 immunization message

Guidance on Indicating Preferable and Contraindicated Vaccines

Use to add further detail to clinical decision support at the point of care

IIS-EHR Interoperability Common Areas of Variability Based on Jurisdictional Law/Policy

Use to find clarity and insight on existing variances in state law or policy

ALIGNMENT

AIRA's Measurement and Improvement (M&I) Initiative aims to assess and increase the level of alignment between IIS and the community's interoperability standards and best practices.

BROAD PARTICIPATION

50 of 58

(86%) targeted jurisdictions are connected and being measured in M&I.

- Guam
- Puerto Rico
- CNMI
- Virgin Islands
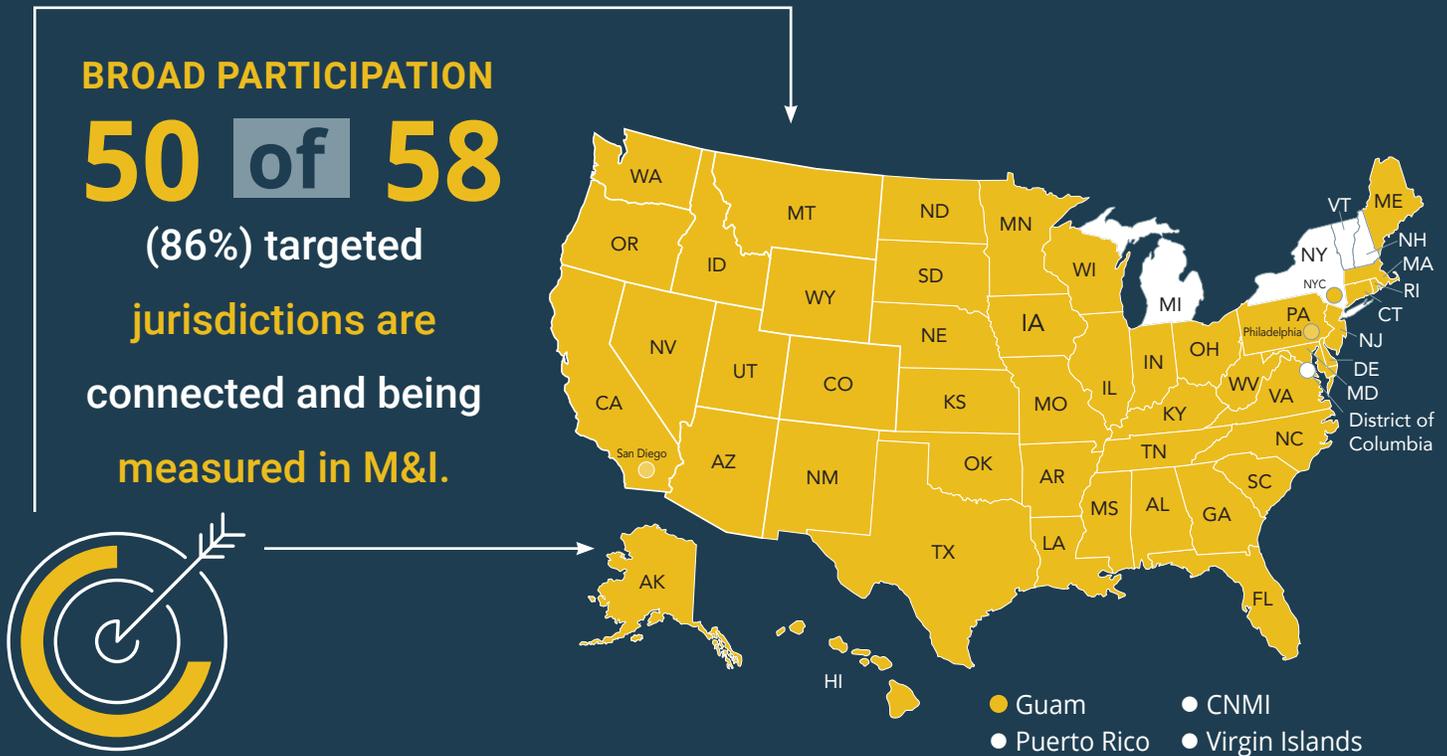
MAKING DATA ACCESSIBLE

Programs access their measurement data through the online Aggregate Analysis Reporting Tool (AART), a dashboard application that allows users to view their own data and test results and to see how they compare with their peers across the nation.

CONTENT AREAS

AIRA's M&I programs assess IIS performance in four content areas:

1. Message Transport
2. HL7 Submission and Acknowledgment
3. HL7 Query and Response
4. Clinical Decision Support (CDS)

PROGRESS TO DATE

The number of IIS that were able to process the submission of a correctly formatted full immunization record for a patient **INCREASED 200%** from baseline.

The number of IIS that were able to process and respond to a query requesting a patient's evaluated immunization record and forecast **INCREASED 367%** from baseline.

AIRA saw an impressive **15% JUMP** in the percentage of IIS meeting the CDS measures in the first two quarters of measurement.

ALIGNMENT

VALIDATION

The Validation step of the M&I initiative acknowledges and shares results for IIS that are progressing toward or achieving alignment with community-selected measures and tests. This public-facing approach highlights the successes across the IIS community and showcases how IIS are meeting or exceeding community standards for interoperability, functionality, and quality.

AIRA annually recognizes the jurisdictions that have achieved validation in one or more of the content areas.

IIS Validated in **1, 2, or 3** Content Areas:

- Guam
- Puerto Rico
- CNMI
- Virgin Islands

11 IIS validated in **ONE** content area

22 IIS validated in **TWO** content areas

9 IIS validated in **THREE** content areas
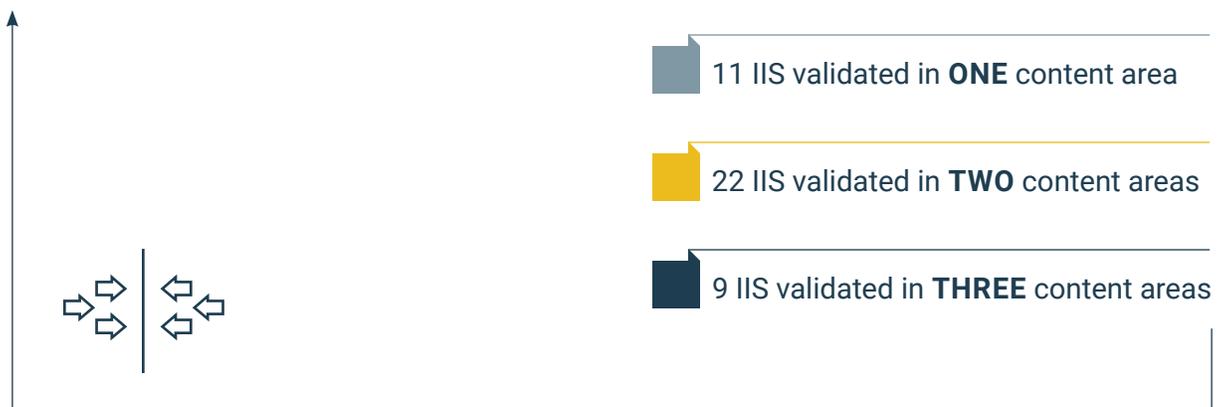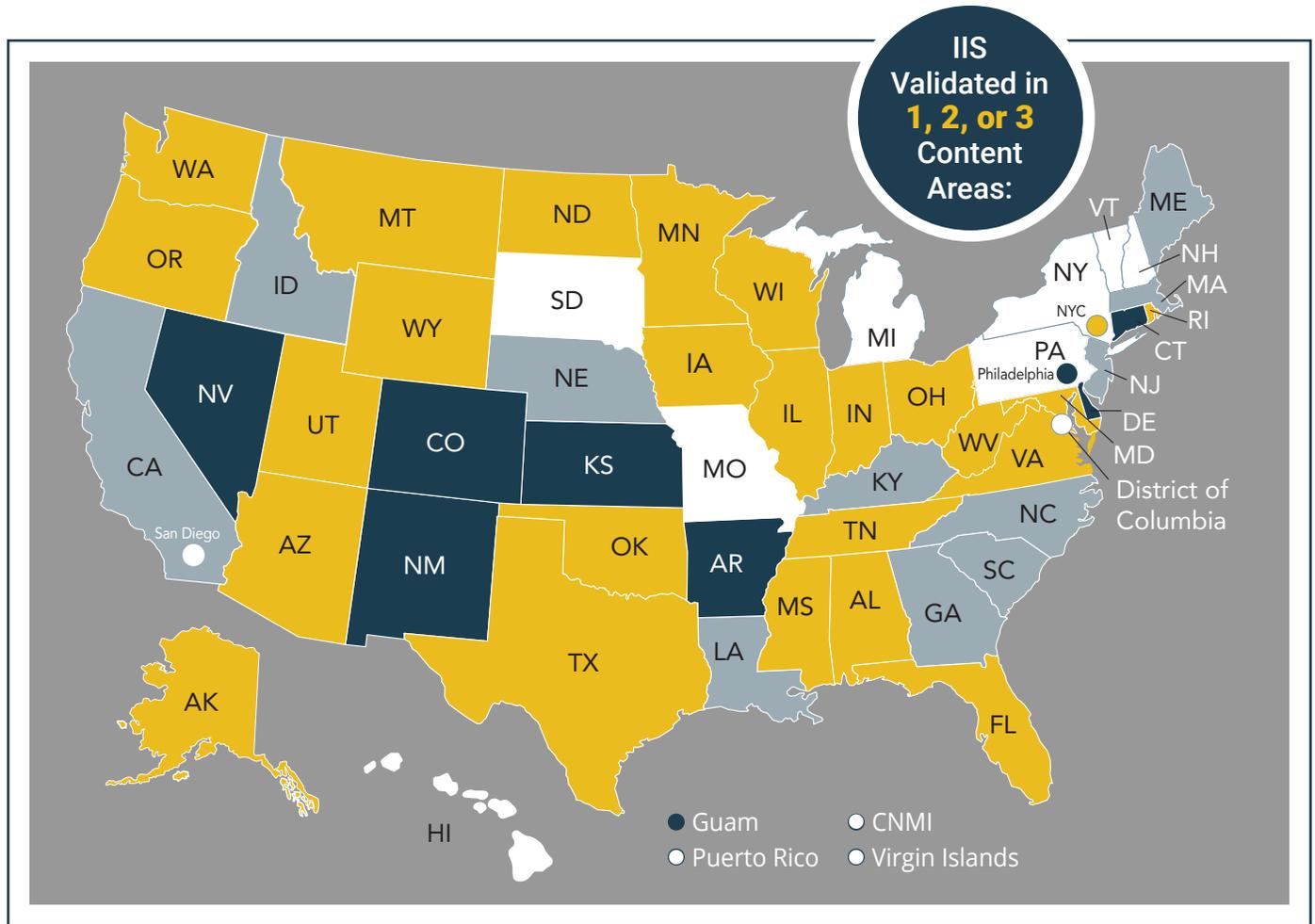
ASSISTANCE

AIRA provides proactive and responsive technical assistance (TA) to the IIS community to support standards adoption and alignment. The goal of TA is to improve the technical, programmatic, and policy status of IIS programs. During the 2019 fiscal year, AIRA provided TA to 42 unique IIS jurisdictions and 22 unique partners.

AIRA provided technical assistance to **68%** of IIS jurisdictions.

REQUEST BY YEAR:

100
2016

161
2017

183
2018

223
2019
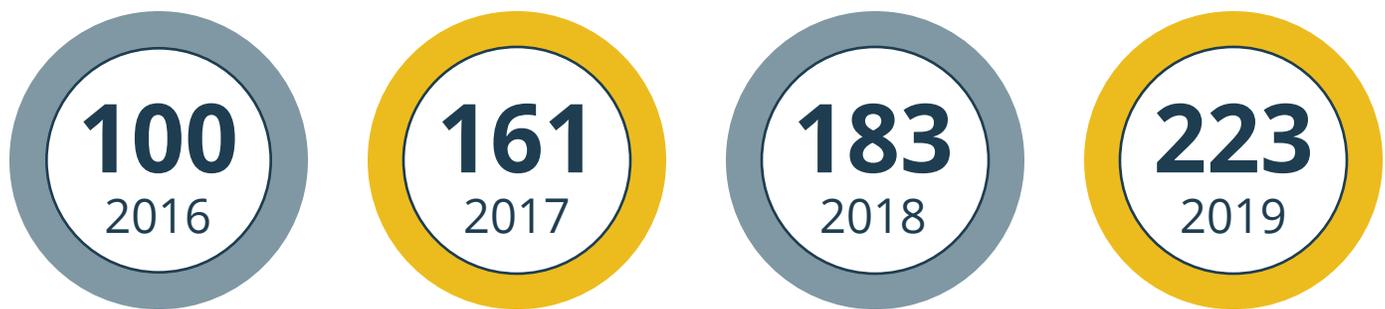
100% of the respondents said they would request TA from AIRA staff again.

> I love that AIRA is such a reputable source, full of so many approachable and incredible people.
>
> **Anonymous,** *Technical Assistance Evaluation*

92% were *very satisfied* with the timeliness of AIRA's response.

Most Common Topics of TA Request:

- AART
- HL7 submission
- HL7 query/response
- Clinical Decision Support
- CDC WSDL/Transport
- HL7 acknowledgements

AIRA provided targeted TA to **33 IIS jurisdictions** during the AIRA 2019 National Meeting.

SHARED SERVICES

AIRA supports the development of collaborative tools and technologies that can be implemented in multiple IIS programs. AIRA has implemented two shared service projects that are of benefit to the IIS community and is actively developing a third.

1

Vocabulary Code Set Considerations Document

AIRA has initiated a considerations document to explore challenges and possible solutions in managing vaccine vocabulary code sets. This work will supplement CDC's focus on code sets through the Vaccine Code Set Management Service (VCSMS). This project is in development and will be available in 2020.

2

Message Quality Evaluation (MQE) Tool

The purpose of the MQE tool is to assist jurisdictions in consistently evaluating and improving the data coming into their IIS. Users can easily generate a series of reports that evaluate the quality of data coming into an IIS. The MQE tool was developed by AIRA and is available for everyone to use at no cost.

3

SmartyStreets

SmartyStreets is a shared address cleansing and geocoding service that is available to AIRA members at no charge. The service can be used to standardize, validate, and/or geocode addresses housed in an IIS.

**Over 260 million addresses have been submitted and cleansed.**

FINANCES

FY2019 Total Liabilities and Assets

| Assets | **$1,078,856** |

| Liabilities | **$291,664** |

| Unrestricted Net Assets | **$787,192** |

2018 v. 2019 Asset, Liability, Net Asset, and Change in Net Asset

Assets
- $922,878 (FY 2018)
- $1,078,856 (FY 2019)

Liabilities
- $366,274 (FY 2018)
- $291,664 (FY 2019)

Unrestricted Net Assets
- $556,506 (FY 2018)
- $787,192 (FY 2019)

Change in Net Assets
- $212,664 (FY 2018)
- $230,686 (FY 2019)

Axis: 0 — 200,000 — 400,000 — 600,000 — 800,000 — 1,000,000 — 1,200,000

■ FY 2018
■ FY 2019
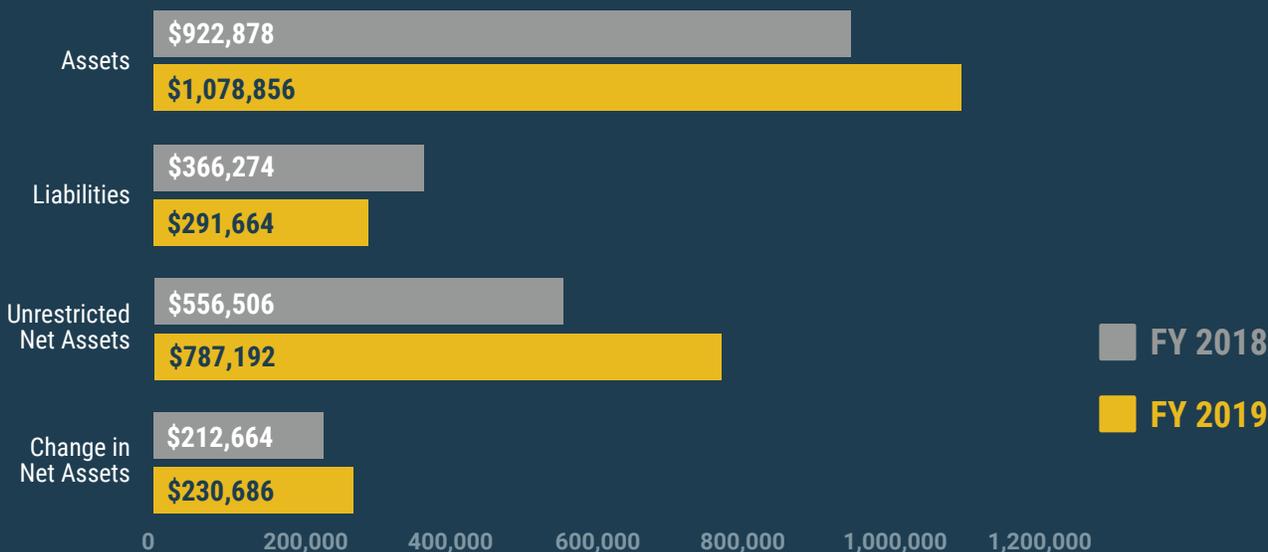
2019 Revenue and Support

Total Revenue
$3,592,951
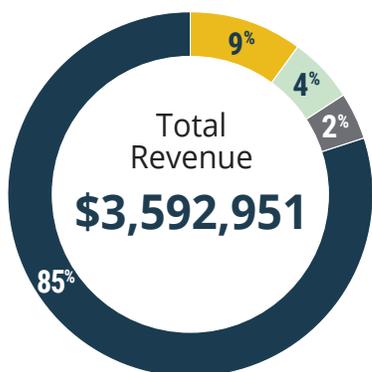
- 85% Cooperative Agreements/Federal Funding
- 9% National Meeting
- 4% Membership Dues
- 2% Other

2019 Expenditures by Function

Total Expenditures
$3,362,265

- 97% Program Service
- 3% Administration

THANK YOU

AIRA relies on thoughtful, smart, engaged, and innovative members and volunteers to collaboratively achieve its mission and vision. For over 20 years, AIRA has worked cooperatively with its members to grow and serve the IIS community. Thank you for your efforts to coordinate and amplify the voice of immunization information systems and public health!

90%
of AIRA IIS members
volunteered their time
and talents with AIRA

55% Submitted or responded to an information request.

34% Presented on an educational webinar or wrote an article for *SnapShots.*

34% Participated in an AIRA Shared Service *(such as address cleansing or the MQE tool).*

40% Presented or Moderated at the AIRA 2019 National Meeting.

67% Regularly attended an AIRA committee or workgroup meeting.

53% Contributed to one of the AIRA resources developed this past year.

THANK YOU

The following partners contributed their time and talents with AIRA.

PARTNER COLLABORATORS

Albertsons

Allscripts

Altarum Institute

American Academy of Pediatrics (AAP)

Association of State and Territorial Health Officials (ASTHO)

Athenahealth

Avanza Systems

Big Data and Cognitive Systems, IBM

Biomedical Informatics, Regenstrief Institute

Business Rules Solutions

Center for Public Health Law Research

Centers for Disease Control and Prevention (CDC)

Cerner Corporation

Deloitte

DXC Technology

Envision Technology Partners, Inc.

Epic

Health and Human Services (HHS)

HLN Consulting, LLC

Indian Health Service

Kahuina Consulting

Kunz, Leigh & Associates

Merck

Ministry of Health Grenada

National Association of County and City Health Officials (NACCHO)

National Institute of Standards and Technology (NIST)

Network for Public Health Law

Pan American Health Organization (PAHO)

Public Health Informatics Institute (PHII)

Scientific Technologies Corporation (STC)

University of Michigan Child Health Evaluation & Research Unit

World Health Organization (WHO)

Yakima Valley Farm Worker's Clinic