



AIRA
AMERICAN IMMUNIZATION
REGISTRY ASSOCIATION

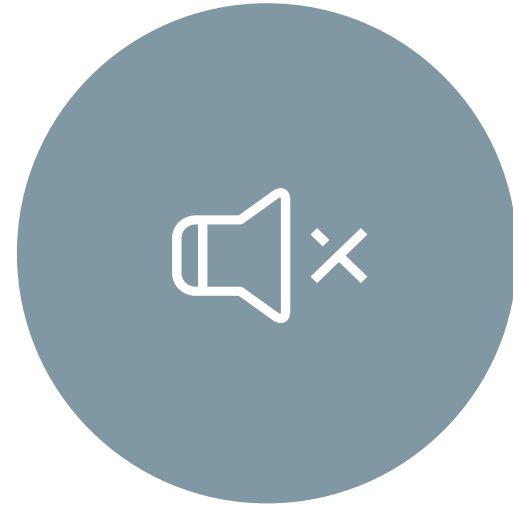
AIRA's Discovery Session on Improving IIS Data Quality

AIRA Discovery Session
July 24, 2023
4 PM EST

AIRA Discovery Session



This meeting is being recorded
and will be posted in the
AIRA repository

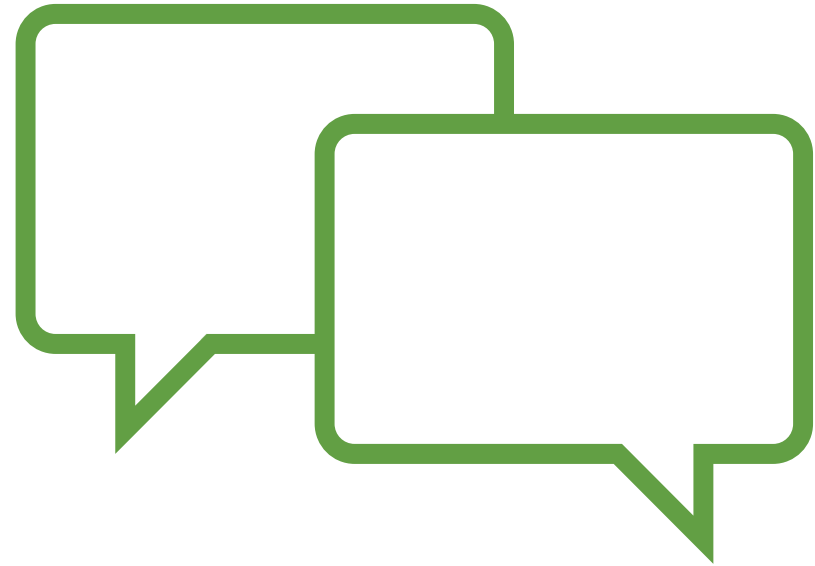


All phone lines
are muted



Technical Support

If you experience any technical issues during the meeting, please contact **Kim Rutland** via direct message in the Chat.

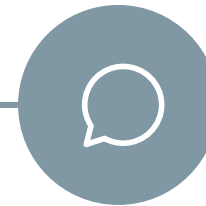


Questions

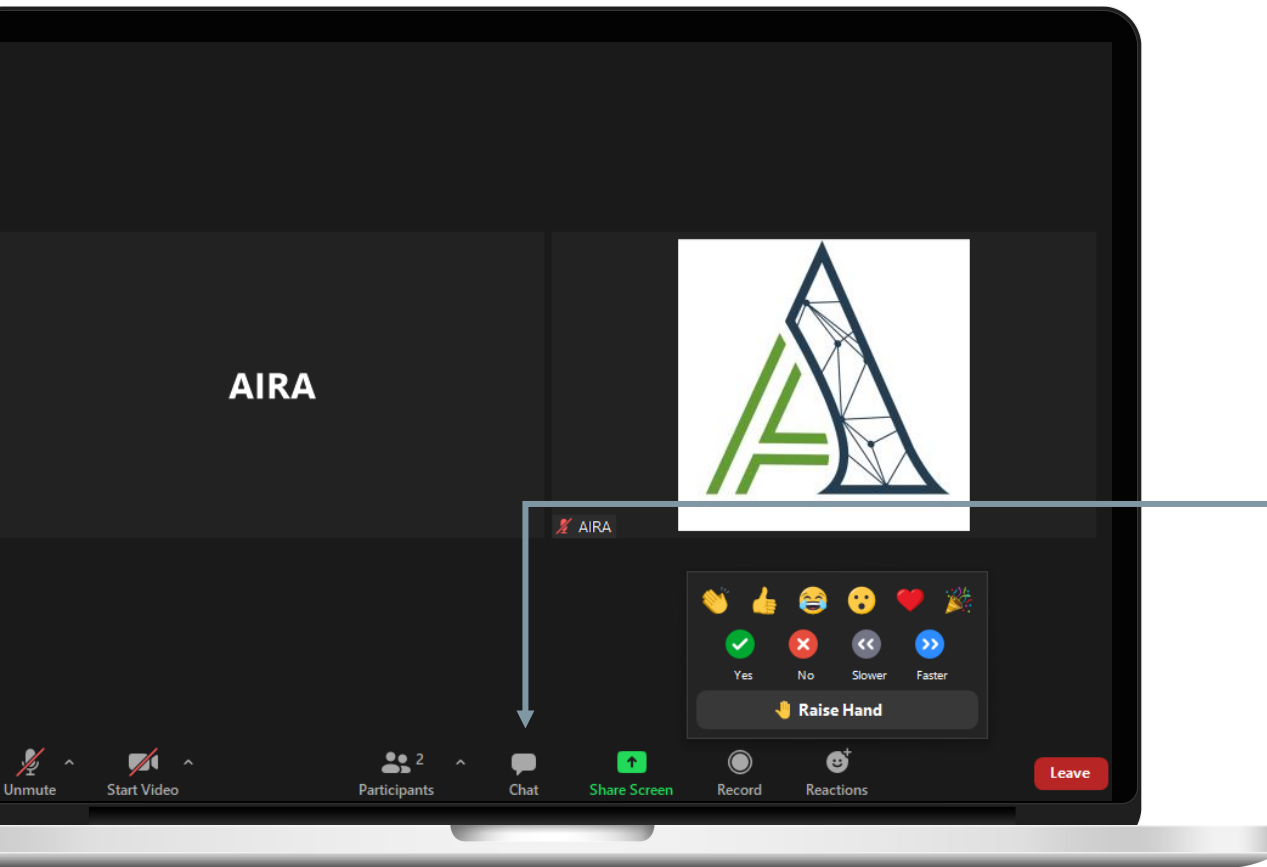
How do I ask a question?

There will be time allotted for Q&A following the presentations.

If you think of a question during the presentations:



Select the chat icon and type your question into the chat box.





Today's Presentations

- **Linking Birth Records from Hospitals with Records from Vitals**, Diane McLeod and Baskar Krishnamoorthy, Florida Department of Health
- **Data at Rest (DAR)**, Assiatou Diallo and Eric Larson, American Immunization Registry Association (AIRA)



Linking birth records from hospitals with records from Vitals

- *Diane McLeod, Florida SHOTS Technology Field Representative*
- *Baskar Krishnamoorthy, Florida SHOTS Business Process Team Lead*

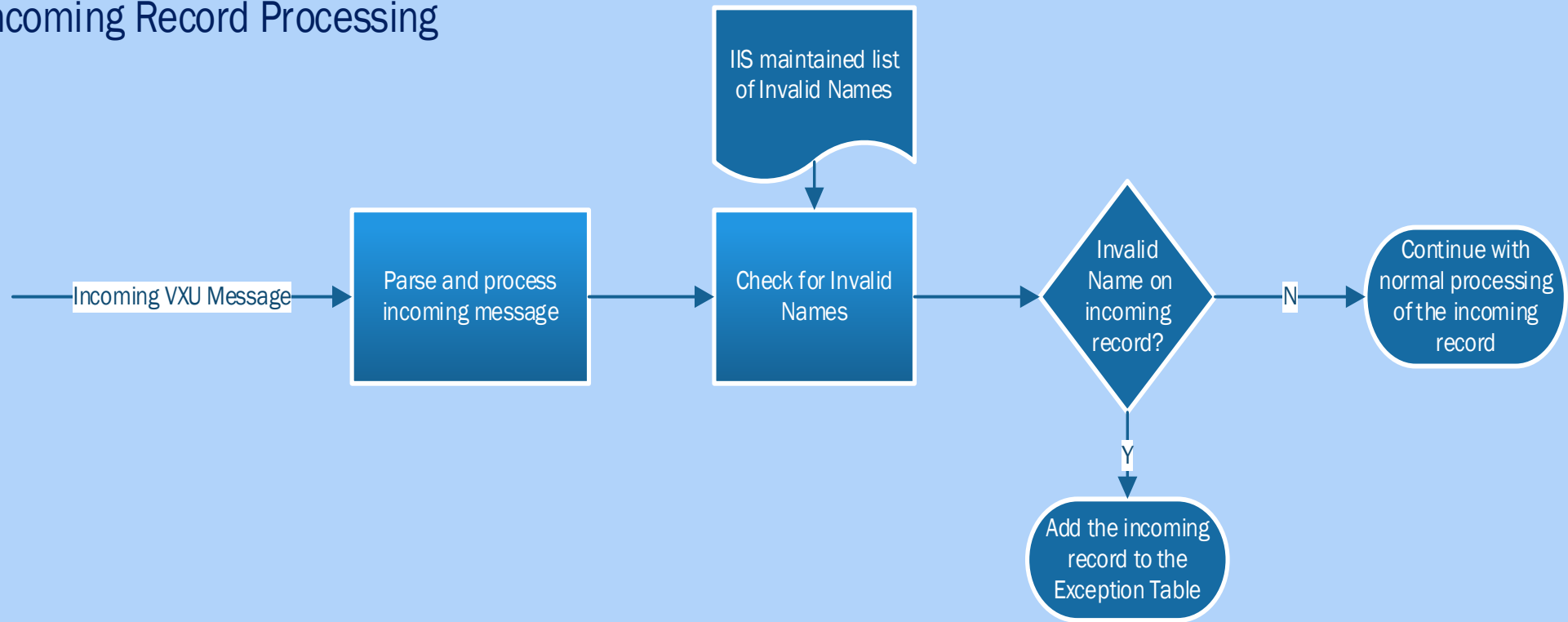
INTRODUCTION

How to reconcile the Birthing Hospitals records, Vital Statistics reporting, and Florida SHOTS reported data

Why and when do hospitals use placeholder names

Florida SHOTS Incoming Record Processing

Incoming Record Processing



Exception Record Processing – Automated

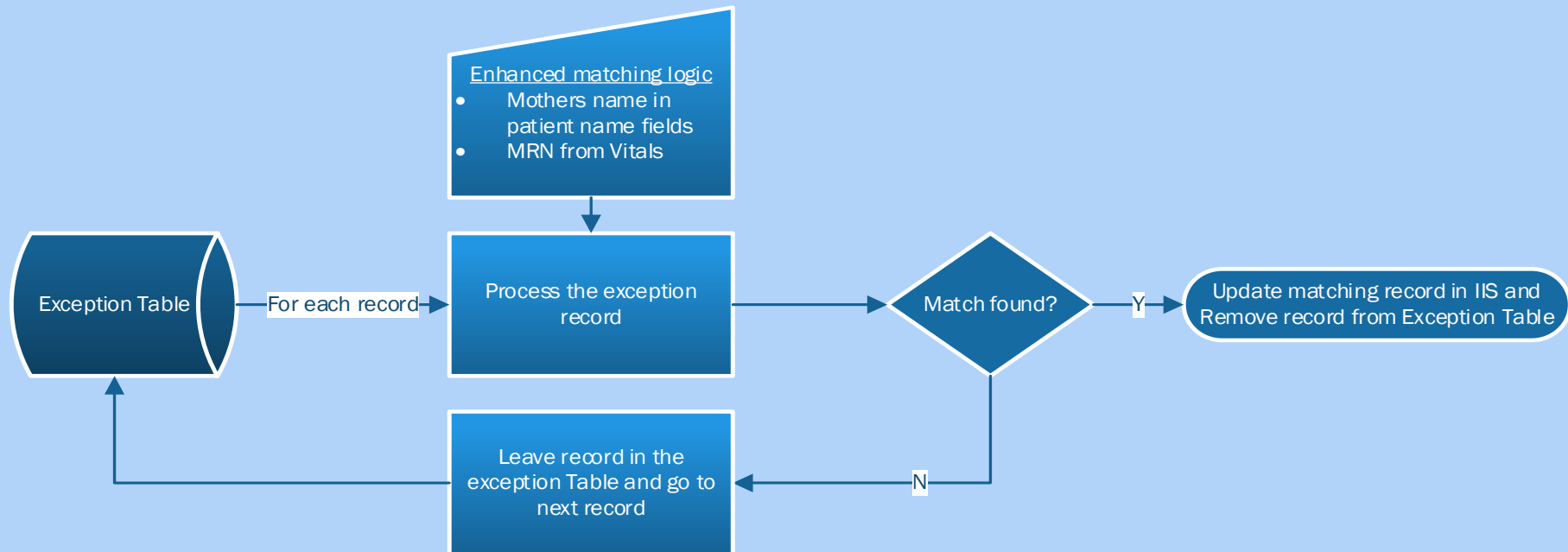
Exception Table Characteristics

- Sending Organization
- Date of Birth
- Entire Incoming Record
- Date/Time when original record was processed

A scheduled task is run daily to find matches for records in the Exception Table

Exception Record Processing – Automated

Exception Record Processing- Automated



Between Jun 20-Jul 19,2023 - processed and matched 6,961 records

Exception Record Processing – Manual Reconciliation

- Allow an **authorized user** to match an exception record manually to an existing IIS patient record
- Functionality is currently in testing

Exception Record Processing – Manual (cont.)

Exception Batches	Exception List for Batch: 2023.02.VFCORG.000000001
2023.01.JTOWN.000000001	789234 Processed: 2023-06-22 12:11:29
2023.01.VFCORG.000000001	JOHN, VOID EXEC 02/01/2023
2023.02.JTOWN.000000001	2500 JOHN STREET TALLAHASSEE, FL 32301
2023.02.VFCORG.000000001	
2023.03.JTOWN.000000001	
2023.04.JTOWN.000000001	
2023.05.JTOWN.000000001	
2022.04.VFCORG.000000001	
2022.07.ROSEPETAL.000000001	
2022.08.ROSEPETAL.000000001	
2021.01.JTOWN.000000001	
2021.02.PPPXX.000000001	
2021.02.ROSEPETAL.000000001	
2021.03.VFCORG.000000001	
2021.06.ROSEPETAL.000000001	
2021.06.VFCORG.000000001	
2021.07.VFCORG.000000001	
2020.02.ROSEPETAL.000000001	
2020.03.JTOWN.000000001	
2020.03.ROSEPETAL.000000001	
2020.05.ROSEPETAL.000000001	
2020.05.VFCORG.000000001	
2019.03.JTOWN.000000001	

Exception Record Processing – Manual (cont.)

Exception Batches	Exception List for Batch: 2023.02.VFCORG.000000001	Duplicate List for Exception: JOHN, VOID 02/01/2023
2023.01.JTOWN.000000001	789234 Processed: 2023-06-22 12:11:29	JEFFERY, JOHN 02/01/2023 8000007495 3409 N MONROE ST, TALLAHASSEE FL. 32311
2023.01.VFCORG.000000001		
2023.02.JTOWN.000000001	JOHN, VOID EXEC 02/01/2023 2500 JOHN STREET TALLAHASSEE, FL 32301	JOHN, PAUL 02/01/2023 8000007497 2500 JOHN ST, TALLAHASSEE FL. 32301
2023.02.VFCORG.000000001		
2023.03.JTOWN.000000001		<div>Add a duplicate by State IMM ID: <input type="text"/></div> <div>Add Potential Dupe</div> <div>View PPU Exception for: JOHN, VOID</div>
2023.04.JTOWN.000000001		
2023.05.JTOWN.000000001		
2022.04.VFCORG.000000001		
2022.07.ROSEPETAL.000000001		
2022.08.ROSEPETAL.000000001		
2021.01.JTOWN.000000001		
2021.02.PPPXX.000000001		
2021.02.ROSEPETAL.000000001		
2021.03.VFCORG.000000001		
2021.06.ROSEPETAL.000000001		
2021.06.VFCORG.000000001		
2021.07.VFCORG.000000001		
2020.02.ROSEPETAL.000000001		
2020.03.JTOWN.000000001		
2020.03.ROSEPETAL.000000001		
2020.05.ROSEPETAL.000000001		
2020.05.VFCORG.000000001		
2019.03.JTOWN.000000001		

Exception Record Processing – Manual (cont.)

Duplicate List for Exception: JOHN, VOID 02/01/2023	Side-by-Side for Batch: 2023.02.VFCORG.000000001		
JEFFERY, JOHN 02/01/2023 8000007495 3409 N MONROE ST, TALLAHASSEE FL. 32311	PPU Exception	FL Shots Patient	
	State IMM Client ID	TMPID_15416:DCHP00TDBC0 02_1901569.223845	8000007495
JOHN, PAUL 02/01/2023 8000007497 2500 JOHN ST, TALLAHASSEE FL. 32301	Name	JOHN, VOID EXEC	JEFFERY, JOHN
	Date of Birth	02/01/2023	02/01/2023
	Sex	MALE	MALE
	Race	OTHER ASIAN	OTHER ASIAN
	Ethnicity		
	SSN		
	Street Address	2500 JOHN STREET	3409 N MONROE ST
	City	TALLAHASSEE	TALLAHASSEE
	State	FL	FL
	Zipcode	32301	32311
	Phone Number	(850)577-6736	(850)577-6736
	Mother's Name	JEFF, MOM	JEFFERY, MOM
	Mother's Date of Birth	02/01/1979	02/01/1979
	Mother's SSN		
	Mother's Email		
Father's Name	JEFF, DAD	JEFFERY, DAD	
Father's Date of Birth	03/09/1977	03/09/1977	
Father's SSN			

Add a duplicate by State IMM ID:

Add Potential Dupe

View PPU Exception for: JOHN, VOID

Cancel

Exception Record Processing – Manual (cont.)

Duplicate List for Exception: JOHN, VOID 02/01/2023		Side-by-Side for Batch: 2023.02.VFCORG.000000001	
JEFFERY, JOHN 02/01/2023 8000007495 3409 N MONROE ST, TALLAHASSEE FL. 32311		PPU Exception	FLShots Patient
		Block Reasons	> PATIENTS WITH DIFFERENT DEATH DATES CANNOT BE MARKED FOR UPDATE.
JOHN, PAUL 02/01/2023 8000007497 2500 JOHN ST, TALLAHASSEE FL. 32301	State IMM Client ID	TMPID_15416:DCHP00TDBC0 02_1901569.223845	8000007497
	Name	JOHN, VOID EXEC	JOHN, PAUL
	Date of Birth	02/01/2023	02/01/2023
	Sex	MALE	MALE
	Race	OTHER ASIAN	OTHER ASIAN
	Ethnicity		

TRACKING AND MONITORING Tools in Florida SHOTS

Data Team

- Data Quality report
- Unmatched Exception report
 - Statewide or by organization
 - Date of birth range
 - Date range of record sent
- Vital Stats No Shots report
- Spreadsheet to document and review data elements and matching percentage rates

FDOH Nursing audits

- Annual audits of newborn shots
- HepB Birth Facility Report

Reports for end users

- Unmatched Exception report
- Data Quality report

CHALLENGES

Hospitals are not using a standardized naming convention.

- Some birthing hospitals do not follow uniform convention even within the same hospital system.

Health Information Management (HIM) department within the hospitals are unaware of what patient identifier to add to the Vital Statistics database, if they do at all

Depending on the EHR, some necessary fields are not documented or exported

- Father's information
- Twin indicators
 - Multiple Birth indicator
 - Birth order

Delayed sending of records from VS or from hospital

How and Where to Begin?

Work with IIS technical team to develop a guidance document on how to send newborn baby's information (naming convention specification document).

Best practice is to setup a call with all required parties from the hospital:

- **Administration**- to discuss aligning naming conventions
- **HIM department**- to discuss the information they are adding to Vital Statistics database
- **IT department**- to discuss the data export HL7 messages to ensure all data elements are present or at least can be exported from the software

Questions?

Data At Rest

Assiatou Diallo, Eric Larson

July 24, 2023



Session Goals



Learn the basics of the Data At Rest (DAR) Content Area



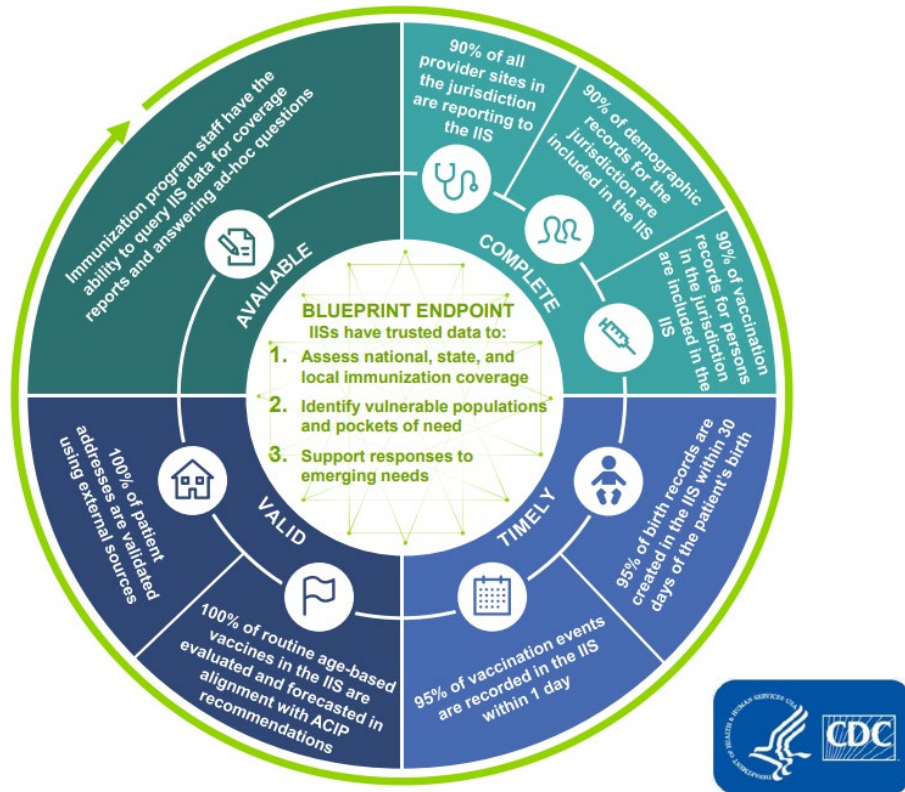
Understand the DAR process



Briefly explore the DAR report functionality - Demo



Data at Rest Content Area



**IIS
DATA QUALITY
PRACTICES**

TO MONITOR AND
EVALUATE DATA
AT REST

5.11.2018

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Data at Rest Content Area

DAR measures CDC Endorsed **Patient Demographic** and **Vaccination Data** Elements through three data quality dimensions:



Completeness



Validity



Timeliness



Why participate in DAR Assessment?



See how **your data aligns** with national and community set **data quality standards**.



Have **access to a query tool** to learn more about your data.



Obtain an **IIS-Wide** and **Provider report** of your data quality.



Complete IPOM Chapter D activity to “analyze provider and IIS level patient demographic and vaccination data”.



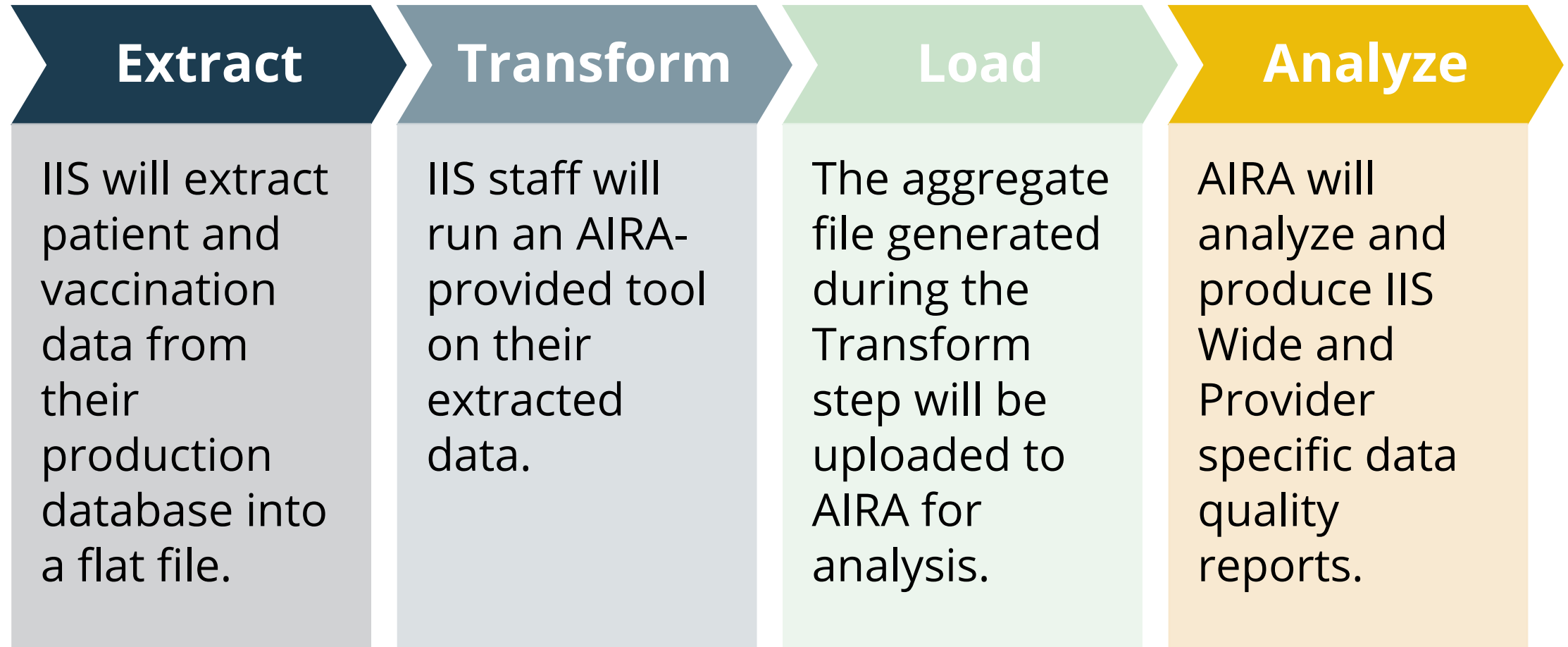
Data at Rest Content Area: 2023 Extract/Cohort

Active patients in IIS
jurisdiction aged 0-2

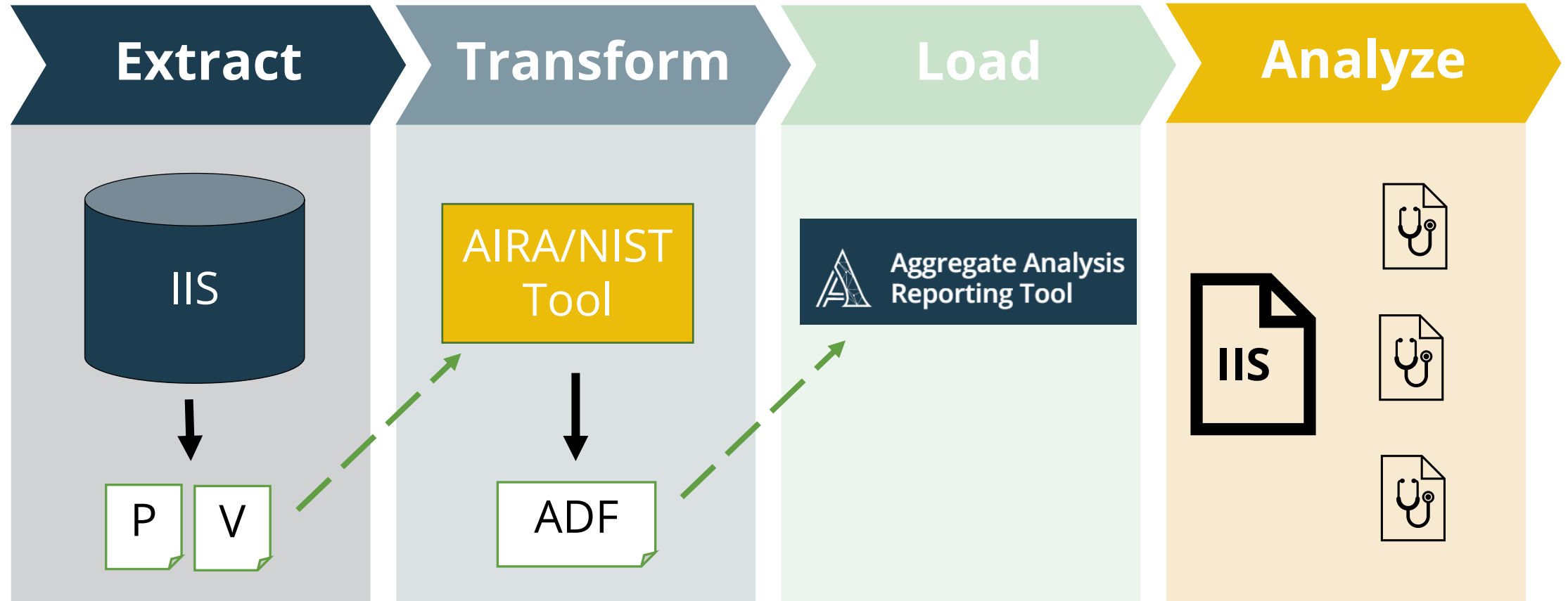
Every vaccination
received by patients in
the cohort until extract
time



Data at Rest Process



Data at Rest Process



DAR Resources



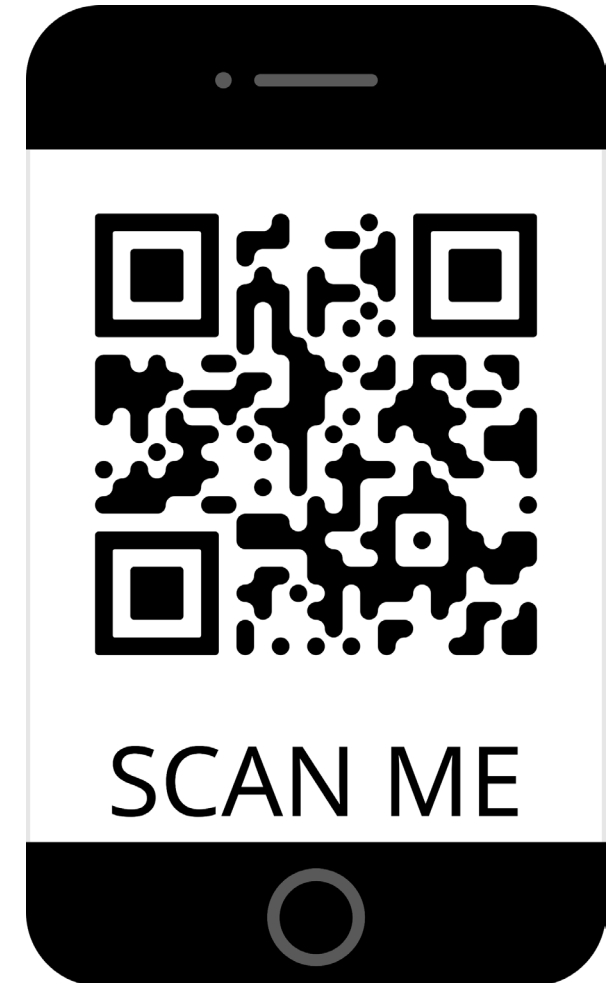
Technical Resources



Measures and Test for Assessment



Recording and slides of the DAR Town Hall



Questions along the way?



Submit a
**Technical
Assistance**
request

A screenshot of the AIRA (American Immunization Registry Association) website. The header features the AIRA logo and a navigation bar with links: Home, About AIRA, Workgroups, Ongoing Efforts, Events, and Repository. The main content area is titled 'Request Technical Assistance' and includes a section for 'AIRA Technical Assistance Requests' with a brief description. Below this is a form titled 'Category of Request *' with a dropdown menu. The dropdown is open, showing options: '-Select-', 'AART Access', 'Data Quality/Data Use', and 'Data at Rest (DAR)'. The 'Data at Rest (DAR)' option is highlighted in green. A small portion of another dropdown menu is visible below it, showing 'a to AIRA? *'.

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Home About AIRA Workgroups Ongoing Efforts Events Repository

Request Technical Assistance

AIRA Technical Assistance Requests

AIRA offers technical assistance on a wide range of IIS topics, including new services specific to onboarding, in collaboration with Centers for Disease Control and Prevention (CDC) and other partners.

Category of Request *

-Select- ▼

Search

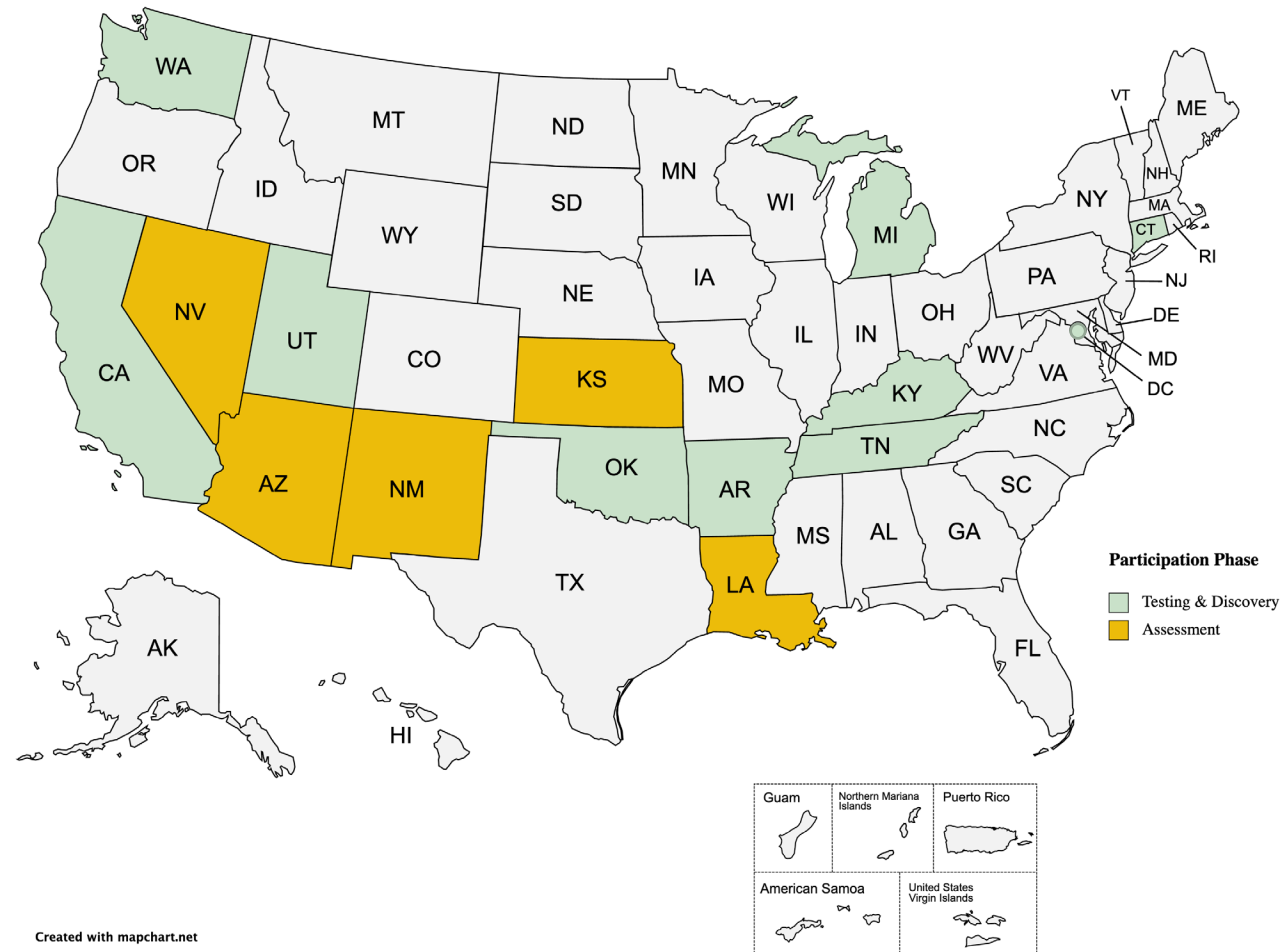
-Select- ▲

- AART Access
- Data Quality/Data Use
- Data at Rest (DAR)**

a to AIRA? *



DAR Participation...thus far



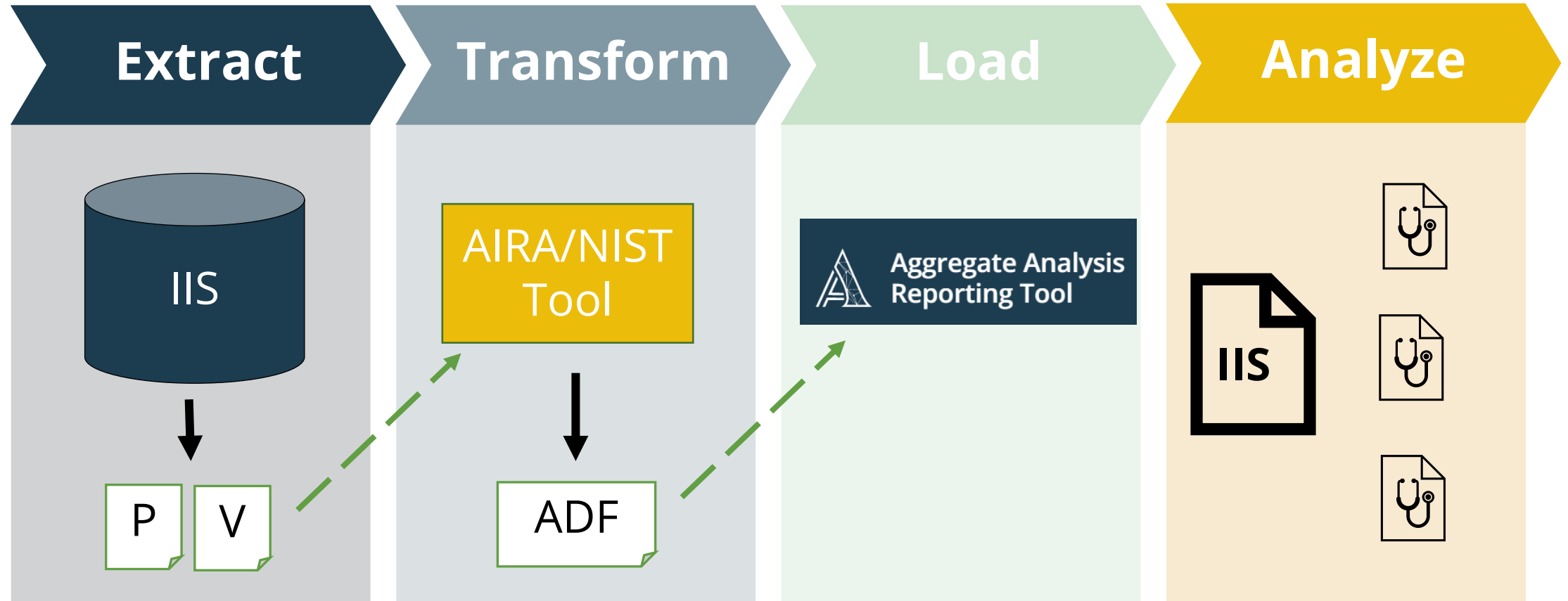


DAR Demo

Thank you to the
Arizona IIS team



Data at Rest Process



DAR Reports - AART

Assessment Details

Assessment

20 of 45 2023

Compare with my peers

Background

About the Assessment Report

Test Case Outcomes

qDAR

qDAR Dashboard

qDAR Report

View Assessment History

IIS Assessment Connectivity Details

IIS

AIRA Sandbox

Created By

Assiatou Diallo

Run Date

05/15/2023

Published Date

05/15/2023

Report Status

Released

Assessment Measures

Test Cases

View: All Measures

☒ Meets ☒ Doesn't Meet ☒ Deviates

Request New Report

Comments

1.1	Completeness: Patient first name is present	<div></div>
1.2	Completeness: Patient middle name is present	<div></div>



DAR Reports - qDAR

NIST Data At Rest Quality Analysis Tool (qDAR) v3.1.3

HomeDownloadDashboardUpload FileConfigurationsReport TemplatesIISAdministration Panel

< DashboardAIRA Sandbox > PUBLISHED IIS Wide 2023 - Assessment Updated On 02-27-2023 10:55











Threshold All Fail Pass

Report Filter


Choose Reporting Group Hash f

filter

1. Completeness

1.1. Patient name first is present. 
1.2. Patient middle name is present.
1.3. Patient name last is present. 
1.4. Patient birth date is present.
1.5. Patient gender is present. 
1.6. Patient address street is present.
1.7. Patient address city is present.
1.8. Patient address state is present.
1.9. Patient address zip code is present. 
1.10. Patient complete address is present. 
1.11. Patient race is present. 
1.12. Patient ethnicity is present. 
1.13. Patient phone number is present. 
1.14. Patient email is present. 
1.15. Mother's maiden name is present. 
1.16. Responsible person first name is

1. Completeness

1.1. Patient name first is present. 

Total number of patient records with a first name present over
Total number of patient records extracted
> 99.0%

Data AnalysisQueryExport CSVSave Query

DETECTION_TYPE	Value	Threshold	Bar
MQE0683 - Patient name first is present	90.4% (272 / 301)	Higher than 99% (FAIL)	<div></div>

1.2. Patient middle name is present.

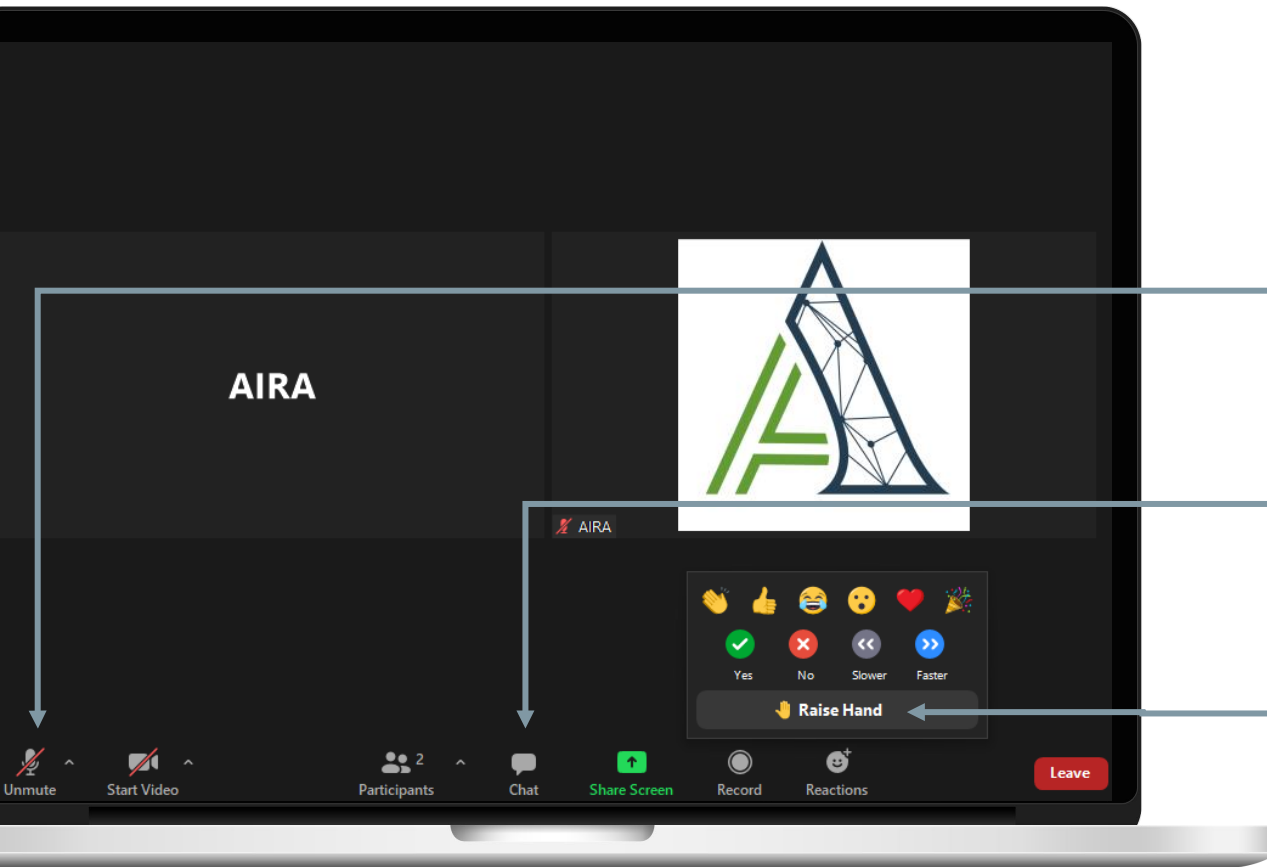
Total number of patient records with a middle name present over
Total number of patient records extracted
> 75.0%



Thank you!

Assiatou Diallo
adiallo@immregistries.org
Eric Larson
elarson@immregistries.org

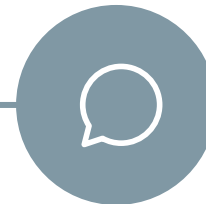
Question & Answer



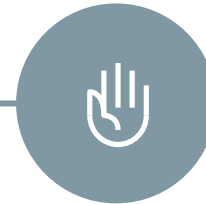
How do I ask a question?



Select the unmute icon and ask your question verbally.




Select the chat icon and type your question into the chat box.



Select the reactions icon, select "Raise Hand," and you will be called on.





Thank you to our presenters, and thanks to all of you for joining us!

Please complete a brief evaluation survey.

The next Discovery Session
will be on **August 28, 2023**