AIRA
AMERICAN IMMUNIZATION REGISTRY ASSOCIATION

Epidemiology Shared Services

AIRA Discovery Session

March 2022

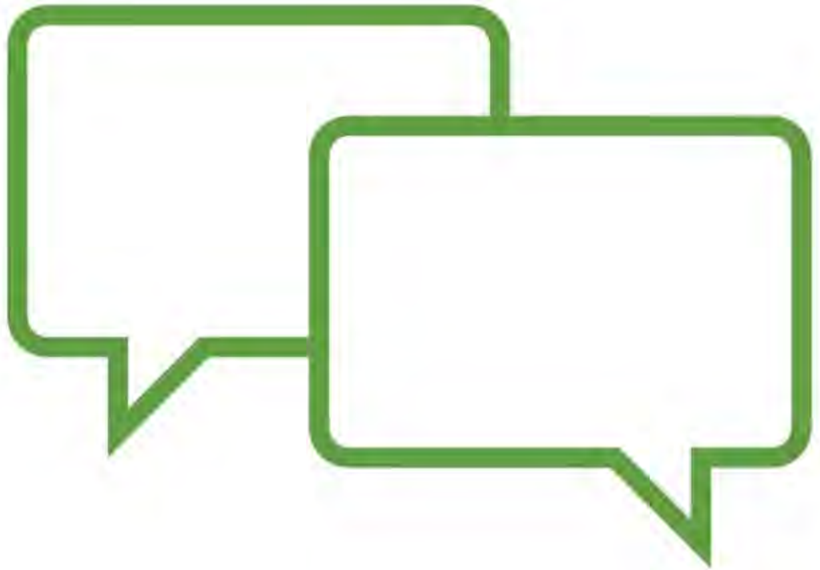
AIRA Discovery Session

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 **Sarah Stein** via direct message in the Chat.



Today's Speakers

Taylor Boomsma,
AIRA

LaTreace Harris,
CDC

Jody Dial,
AIRA

Questions

How do I ask a question?

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

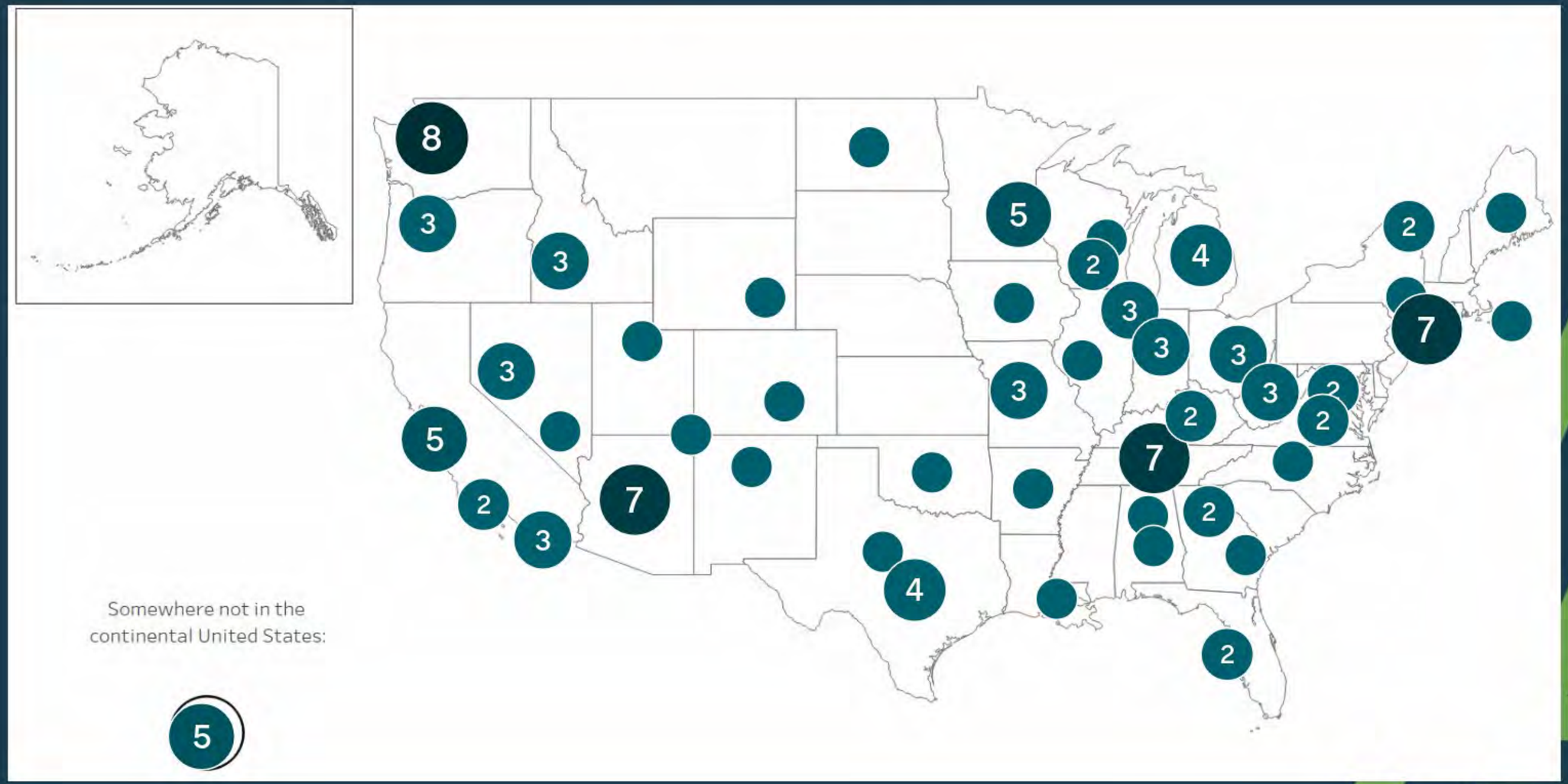
If you think of a question during the presentations:

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

Mentimeter Instructions

- Open www.menti.com on your phone or computer
- Enter code: 1884 9660
- Answer questions as they appear and view live results
- Note: All comments are anonymous

Where are you calling in from?



What song represents your day today?

Epi Shared Services Mission Statement

ESS is a resource for those who…

- ✓Extract, analyze, interpret, visualize, report out, or interact with IIS data
- ✓To help onboard, support, and advance their immunization data analysts' skills.

AIRA
AMERICAN IMMUNIZATION
REGISTRY ASSOCIATION

LaTreace Harris, CDC

Community-Wide Survey

65 individuals
responded

47 jurisdictions

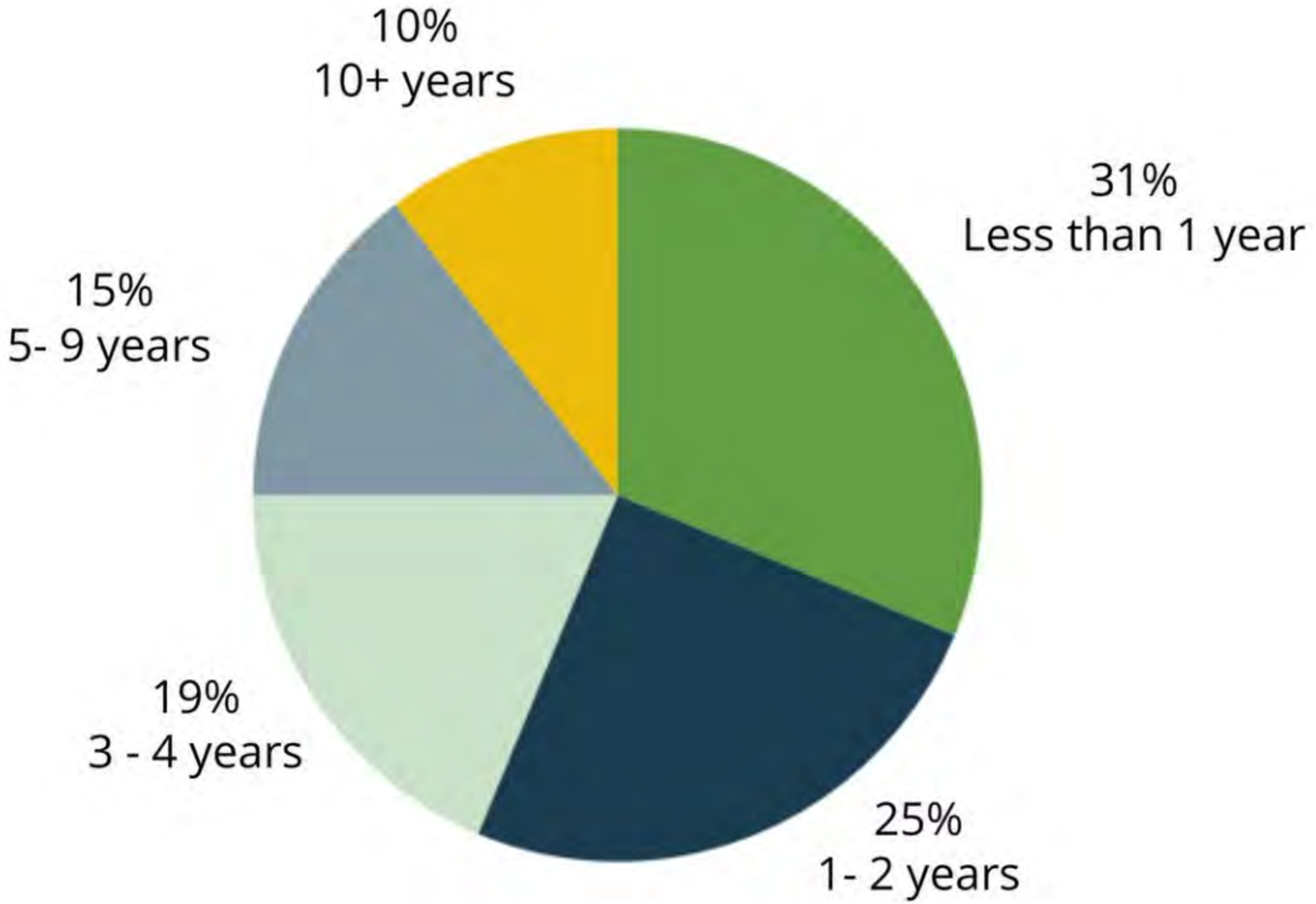
Community-Wide Survey

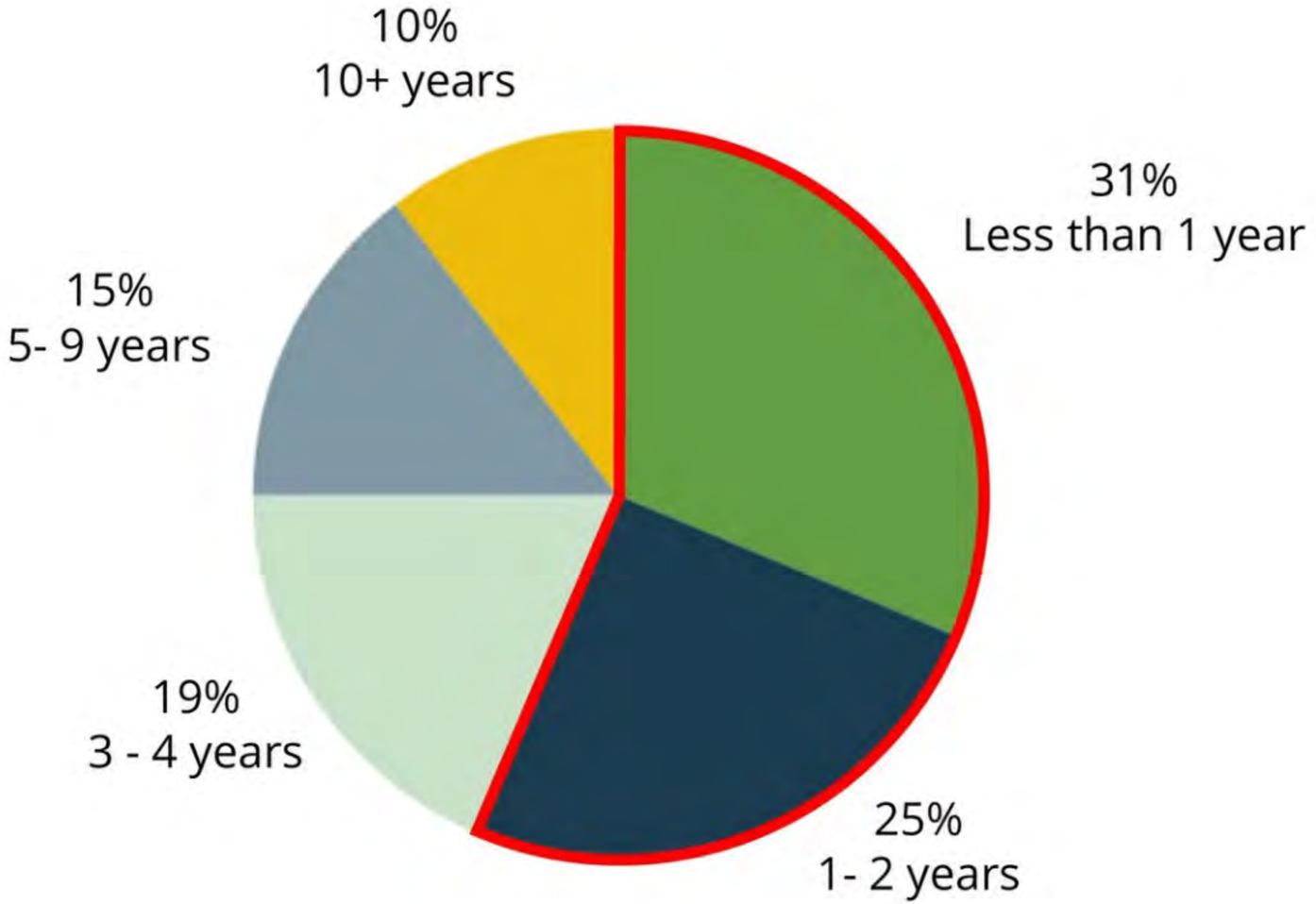
65 individuals responded

47 jurisdictions

49 individuals said they analyze IIS data in their current role

33 jurisdictions


10%
10+ years
31%
Less than 1 year
15%
5- 9 years
19%
3 - 4 years
25%
1- 2 years



Over **50%** of survey respondents have been an immunization data analyst for **less than 3 years.**

We asked survey respondents…

- What **topics** are you interested in learning about?
- What **skills** are you interested in developing?
- What **method** for communication do you prefer?

Phase One:

Code Library

Phase One:

Code Library

Training

Phase One:

Code Library

Training

Mini-Series

Phase One:

- Code Library
- Training
- Mini-Series
- Peer-to-Peer Connection

Phase One:

- Code Library
- Training
- Mini-Series
- Peer-to-Peer Connection
- Technical Assistance

Throughout today's presentation…

Email **abuckland@immregistries.org**

or

Message **Strategic Initiatives** in the Zoom chat

Created by Nick Bluth
from the Noun Project

Code Library

How interested are you in different communication methods for sharing and learning?

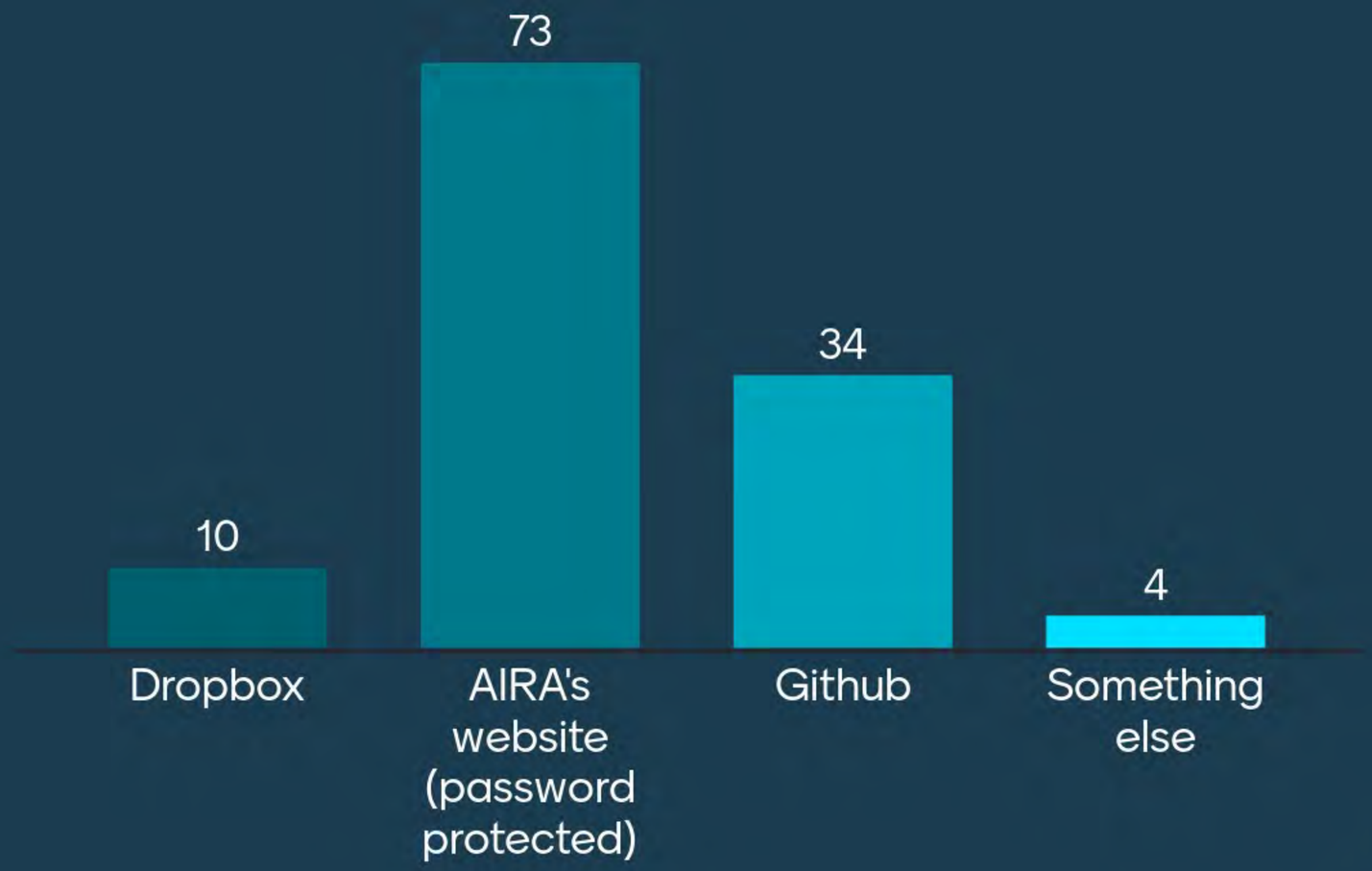
74% of survey respondents were **interested** or **very interested** in a **crowd-sourced code library**

What to expect

- An electronic storage space where relevant, non-proprietary scripts can be shared.

- Create a shared space where other IIS data analysts can:
  - Upload queries
  - Glean inspiration
  - Troubleshoot code
  - Adapt queries to IIS

What application would work best to house an AIRA Code Library?



What application would work best to house an AIRA Code Library?

Slack

Slack. Works great for CSTE.

Slack + GitHub

working with CDC's sharepoint may be a good way given the IT restrictions many jurisdictions have

I would recommend Slack as it offers the ability to share links and resources as well as chat vs. a static file repository.

Slack and github

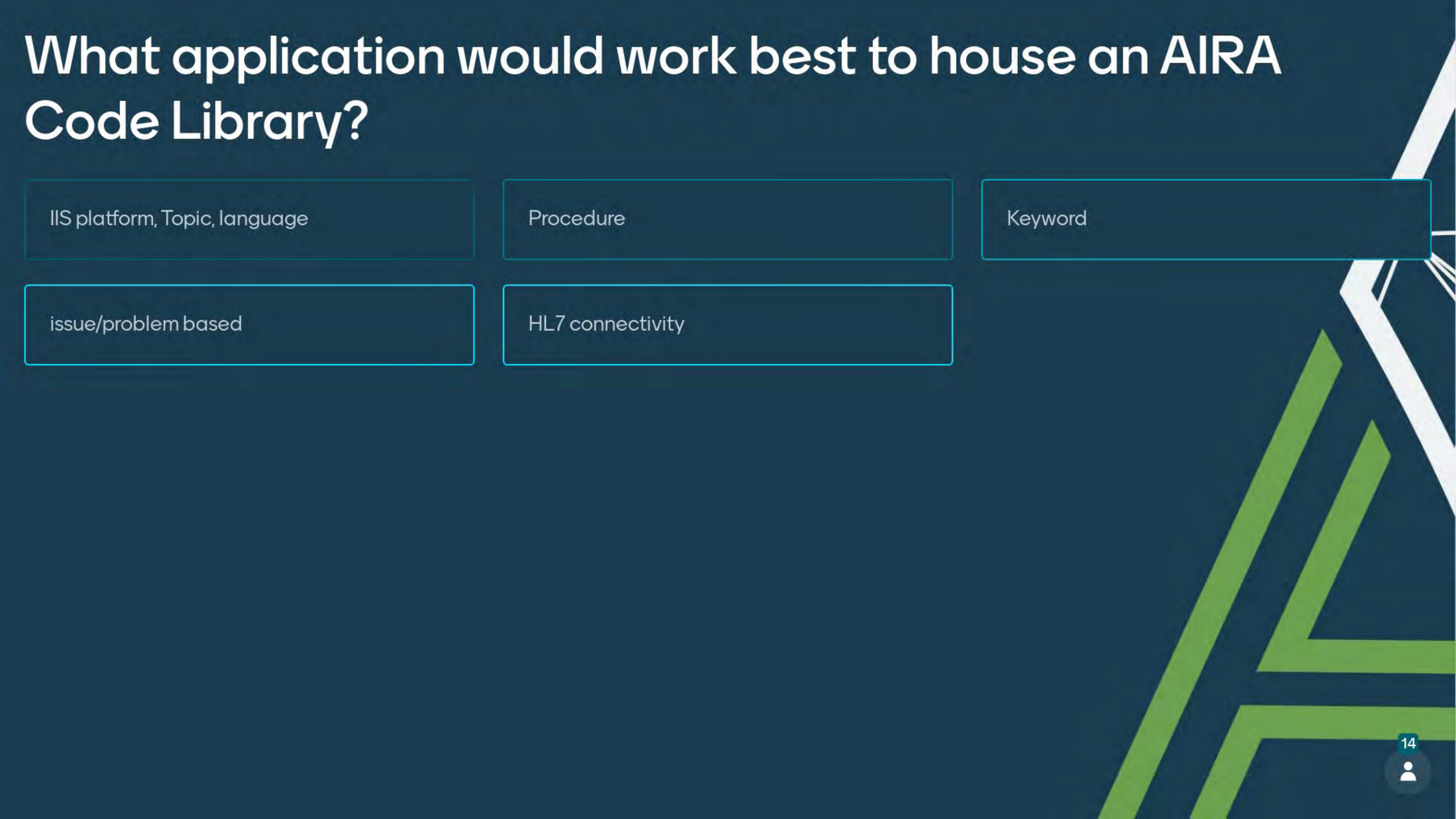
Coding language

I'm not sure - would need to talk to IT

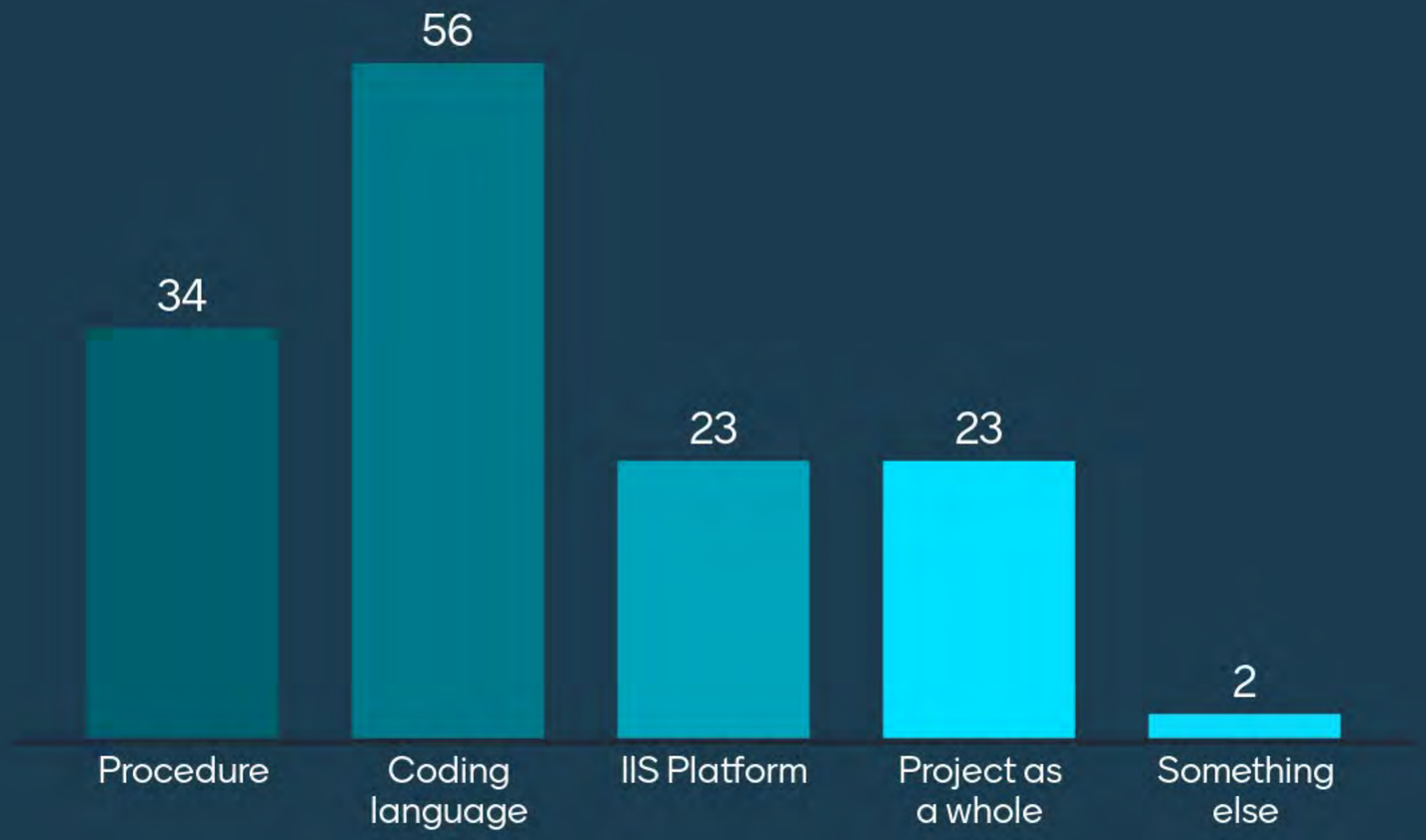
Specific procedure or similar project

What application would work best to house an AIRA Code Library?

- IIS platform, Topic, language
- Procedure
- Keyword
- issue/problem based
- HL7 connectivity



How would you prefer to see an AIRA Code Library organized by?



How would you prefer to see an AIRA Code Library organized by?

Coding language and then procedures within each coding language.

search by keyword

key words

If it is GitHub we can search by key word

Key words

Key words

First by language, then by specific topic or type (IIS, NIS, etc.)

By project and within by coding language

Maybe a filter mechanism that can incorporate all of those suggestions

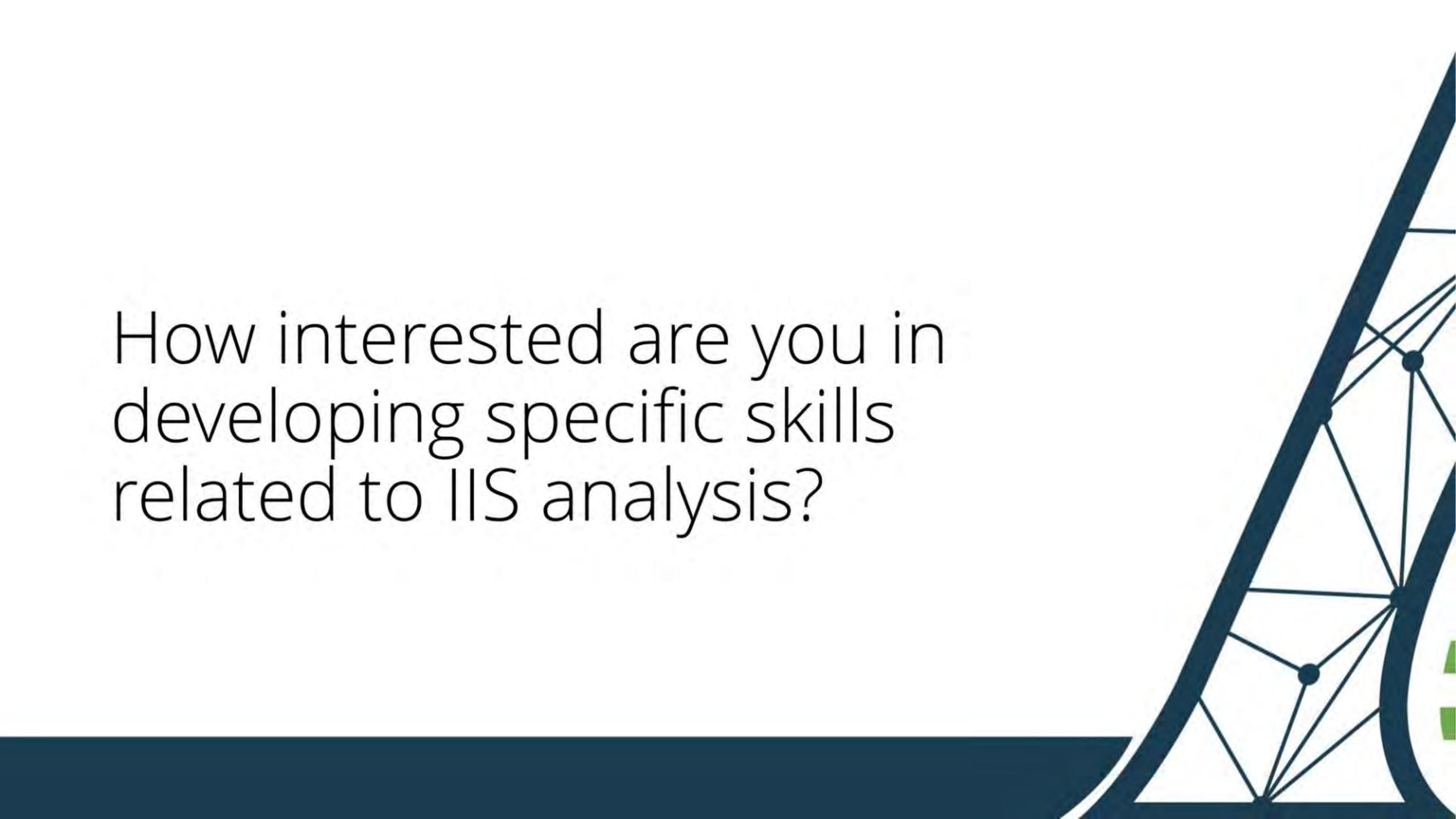
Wanted: Subject Matter Experts

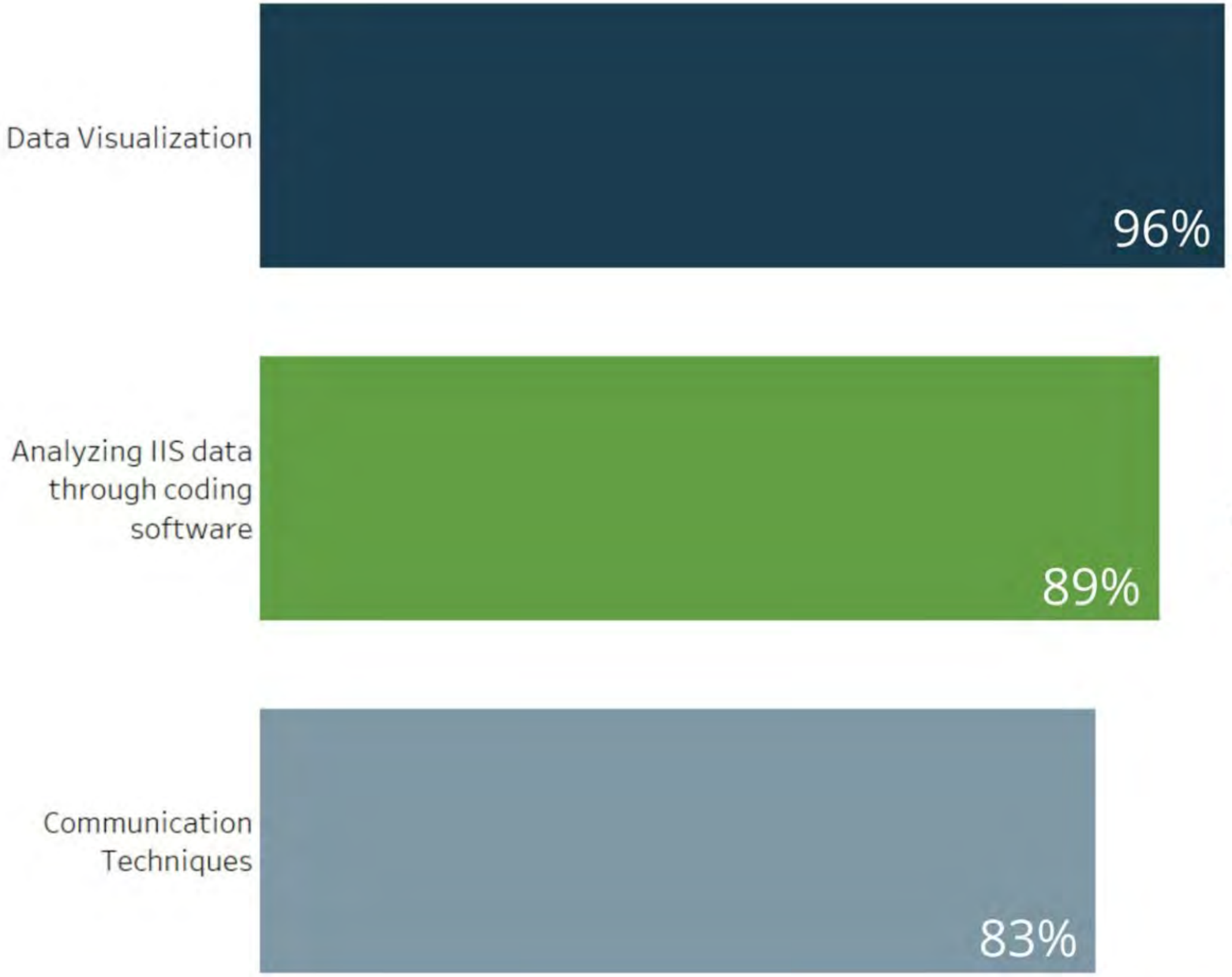
- All IIS platforms encouraged
- All coding levels of experience encouraged
- Two meeting commitment
- Help guide structure & indexing of Code Library

Email **abuckland@immregistries.org** or message **Strategic Initiatives** in the Zoom chat

Training

How interested are you in developing specific skills related to IIS analysis?

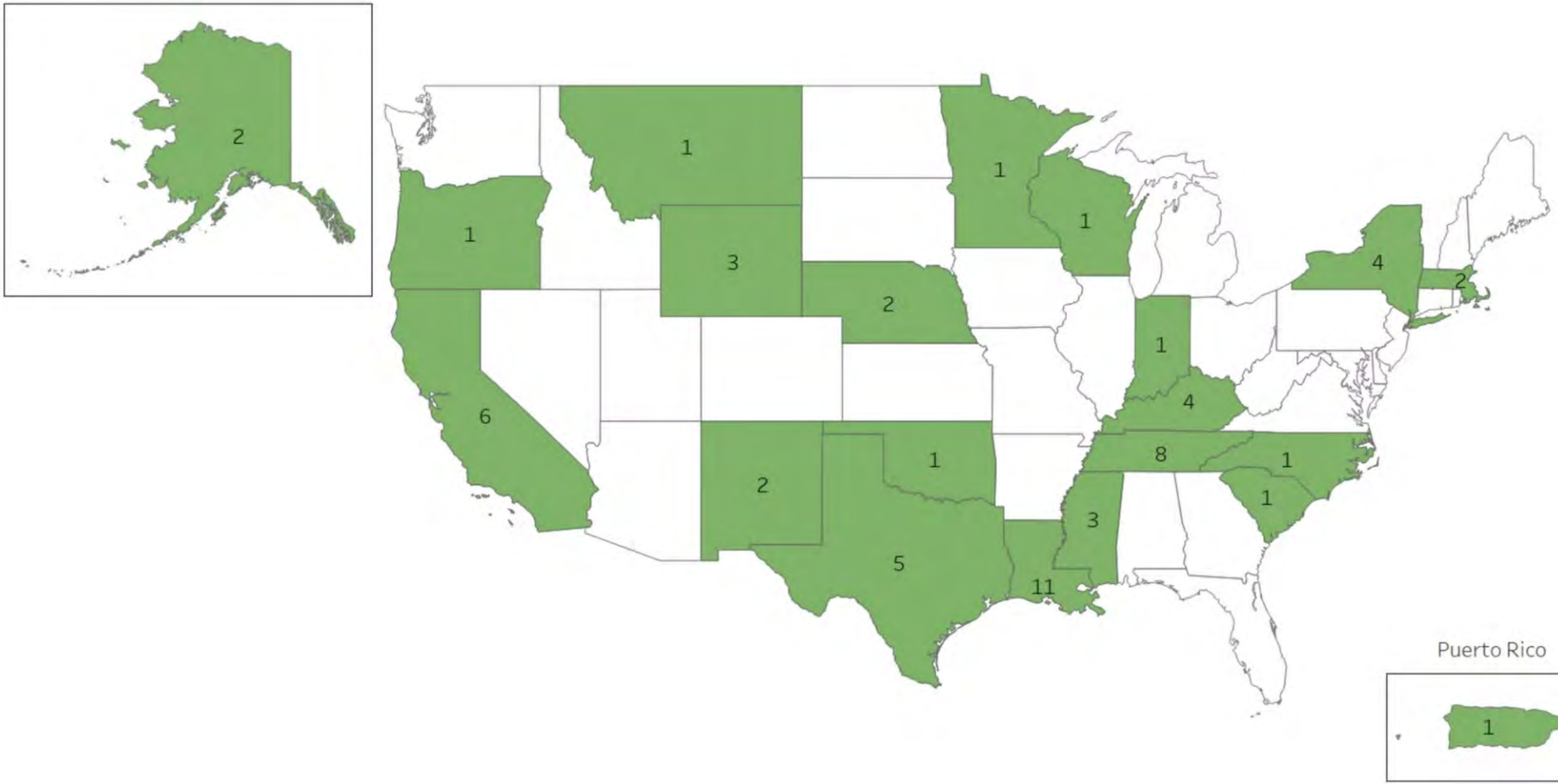




The **top 3 skills** individuals were **interested** or **very interested** in developing

Data Visualization Trainings

63 Individuals across **22** IIS have participated in an **Introduction to Tableau Training** sponsored by AIRA



Training Testimonials

"I just wanted to say how great the training was yesterday – I have taken several courses with this type of set up and this is by far the best one."

Training Testimonials

"I just wanted to say how great the training was yesterday – I have taken several courses with this type of set up and this is by far the best one."

"I really enjoyed the Tableau training class!"

Coming in April: Intermediate Tableau Training

- Virtual, instructor-led
- 10:00 am – 2:00 pm ET
- Uses immunization data
- Builds off Introduction to Tableau Training
- Limited availability

APRIL 2022

SUN	MON	TUE	WED	THU	FRI	SAT
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

Holidays and Observances: 17: Easter Sunday, 18: Easter Monday, 18: Tax Day

Wiki Calendar

MAY 2022

SUN	MON	TUE	WED	THU	FRI	SAT
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Holidays and Observances: 5: Cinco de Mayo, 8: Mother's Day, 30: Memorial Day

Wiki Calendar

Email **abuckland@immregistries.org** or message **Strategic Initiatives** in the Zoom chat

Coming in May: Introduction to Power BI Training

- Virtual, instructor-led
- 10:00 am – 2:00 pm ET
- Uses immunization data
- Limited availability

MAY 2022

SUN	MON	TUE	WED	THU	FRI	SAT
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Holidays and Observances: 5: Cinco de Mayo, 8: Mother's Day, 30: Memorial Day

Wiki Calendar

JUNE 2022

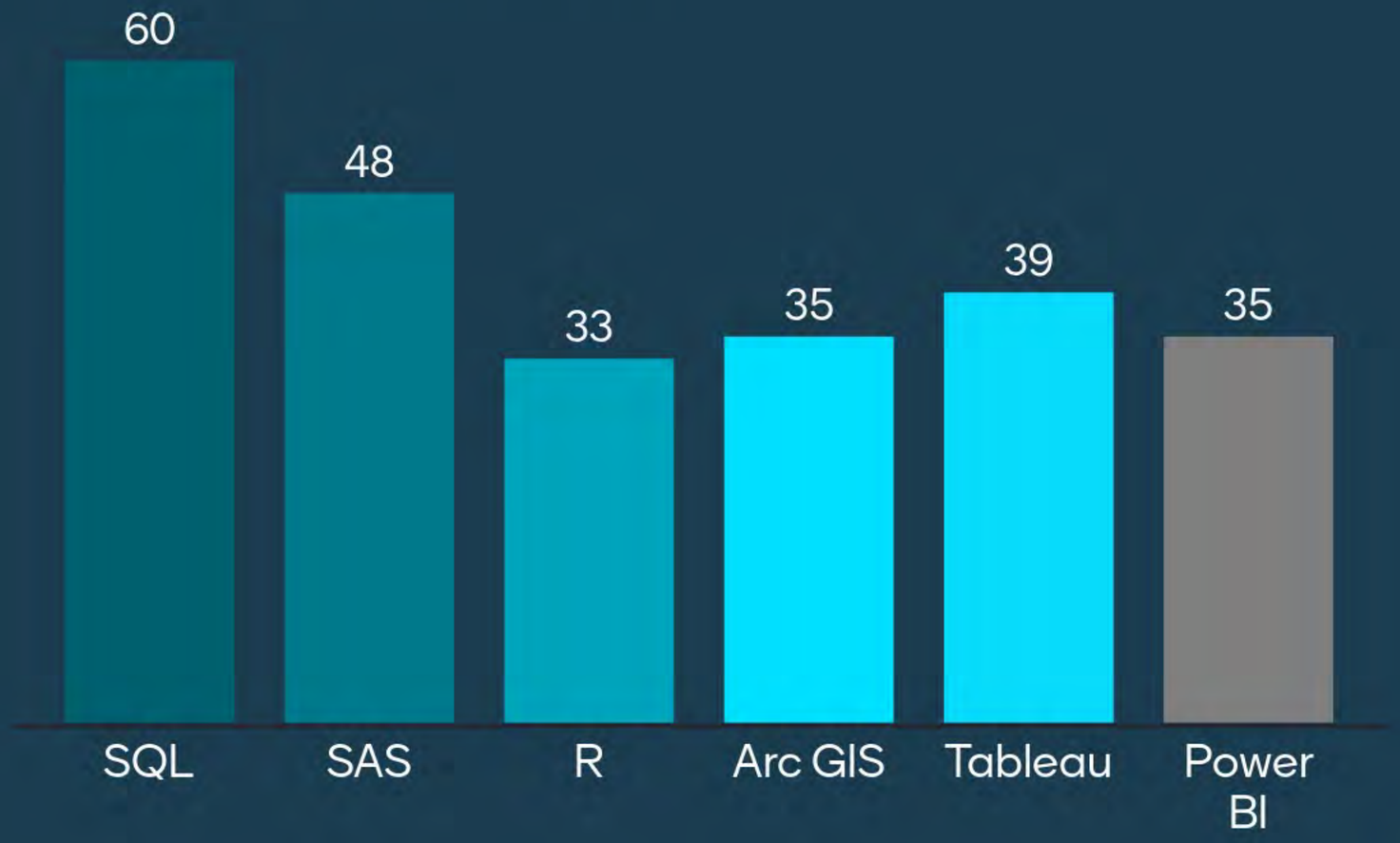
SUN	MON	TUE	WED	THU	FRI	SAT
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

Holidays and Observances: 14: Flag Day, 19: Father's Day, 19: Juneteenth, 20: 'Juneteenth' day off

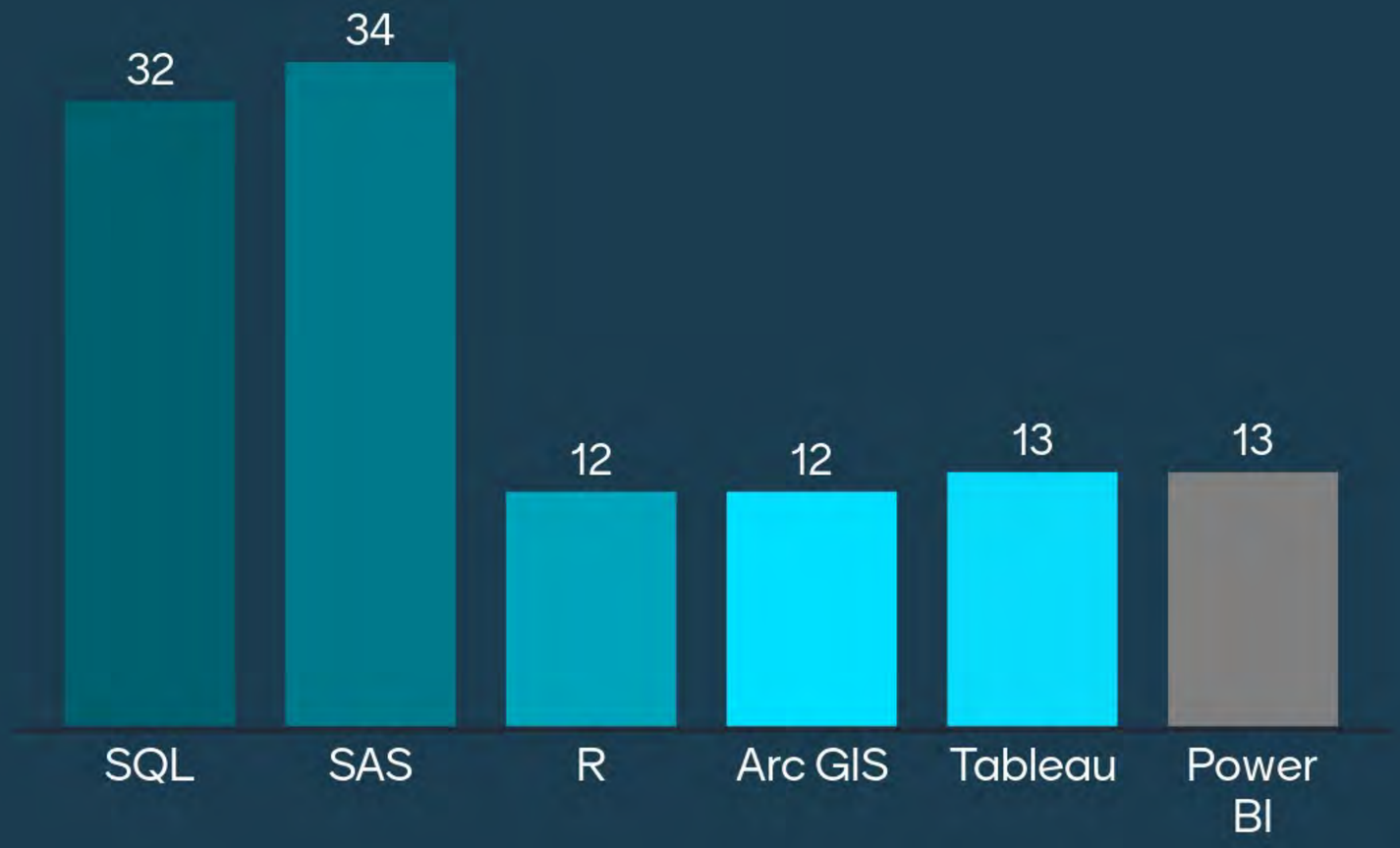
Wiki Calendar

Email **abuckland@immregistries.org** or message **Strategic Initiatives** in the Zoom chat

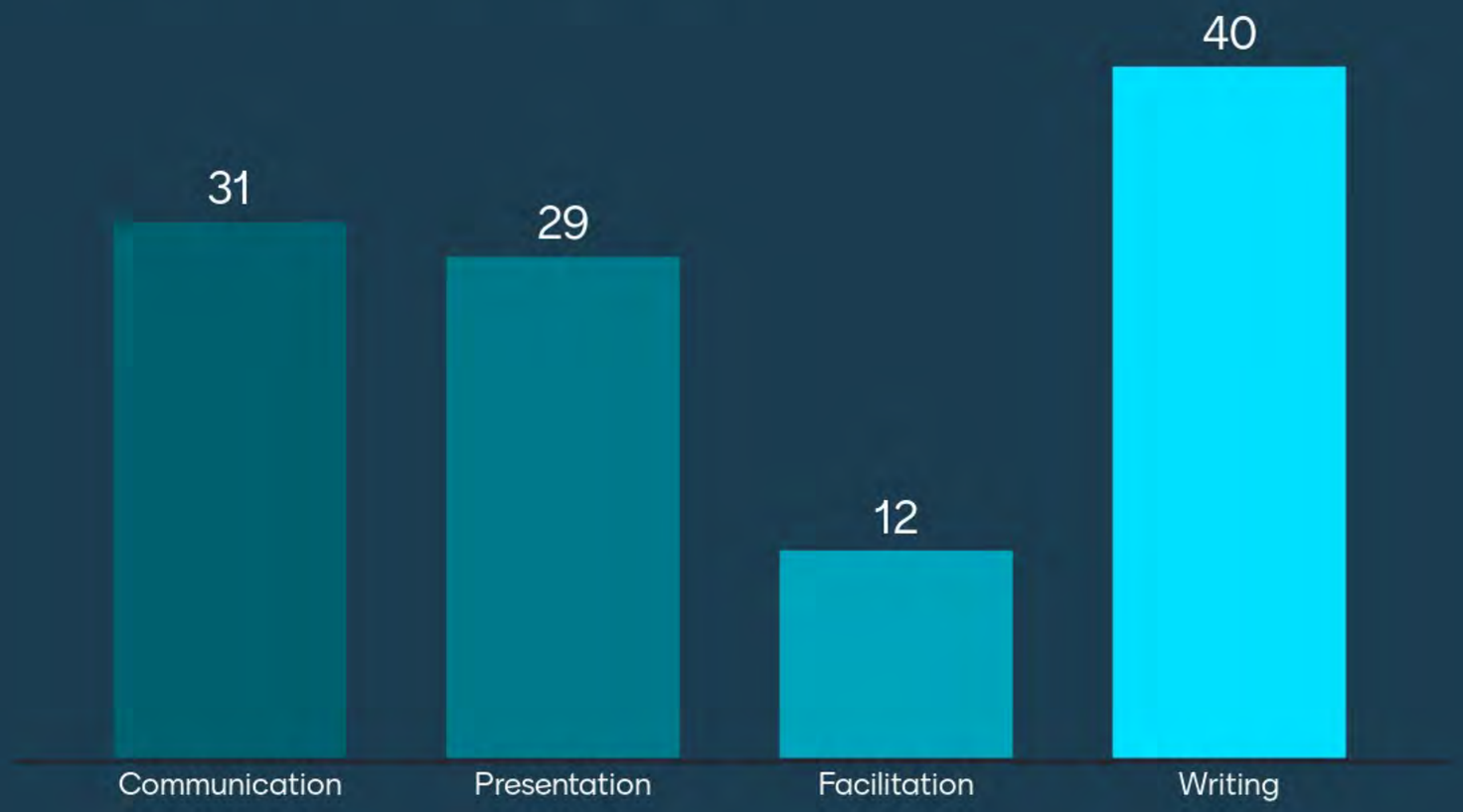
Which technical training would you want to participate in for your role analyzing IIS data?



Would you like intermediate/advanced level training on any of these topics?

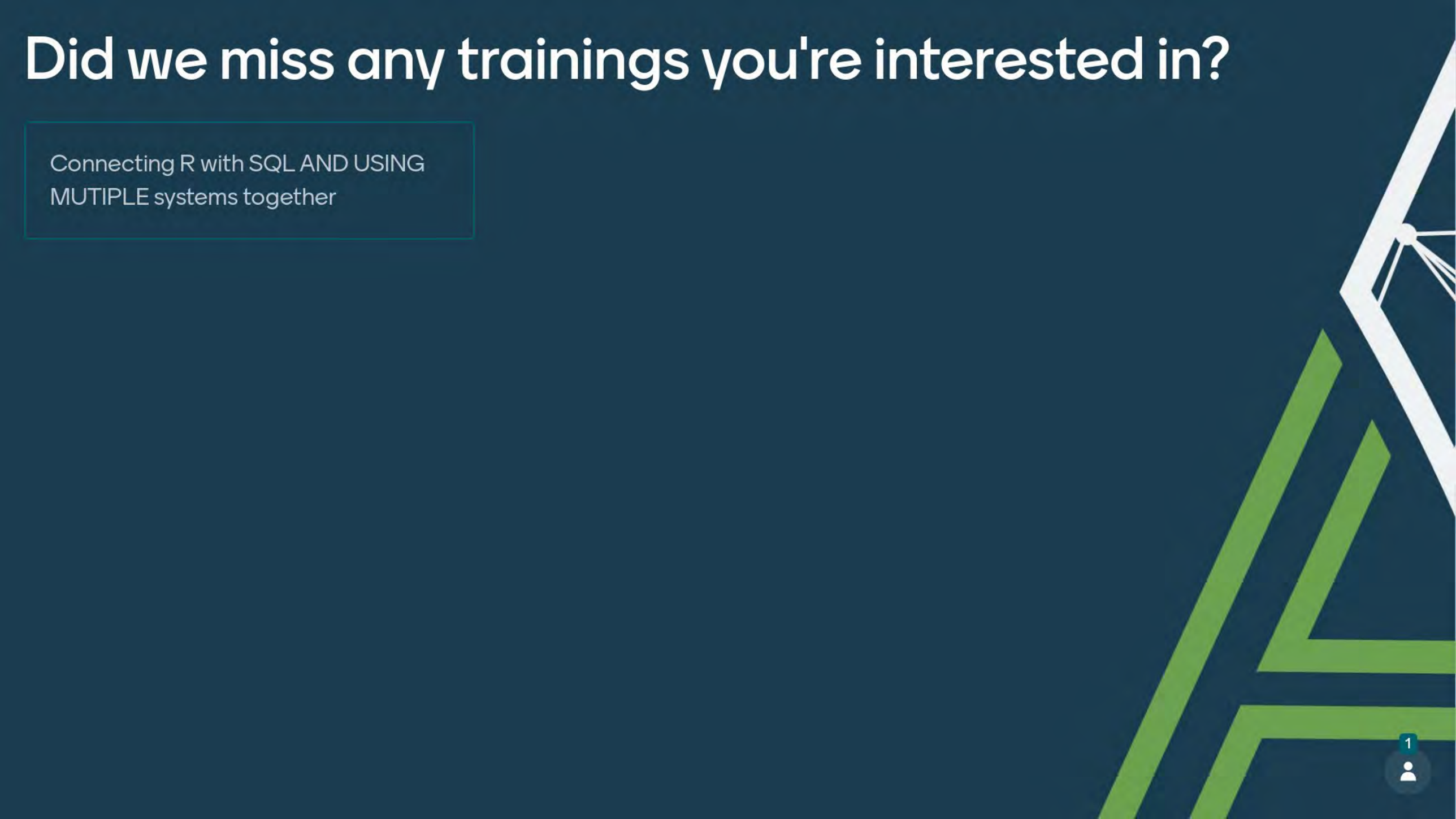


What other training would you find the most helpful in doing your job analyzing IIS data?



Did we miss any trainings you're interested in?

Connecting R with SQL AND USING MUTIPLE systems together



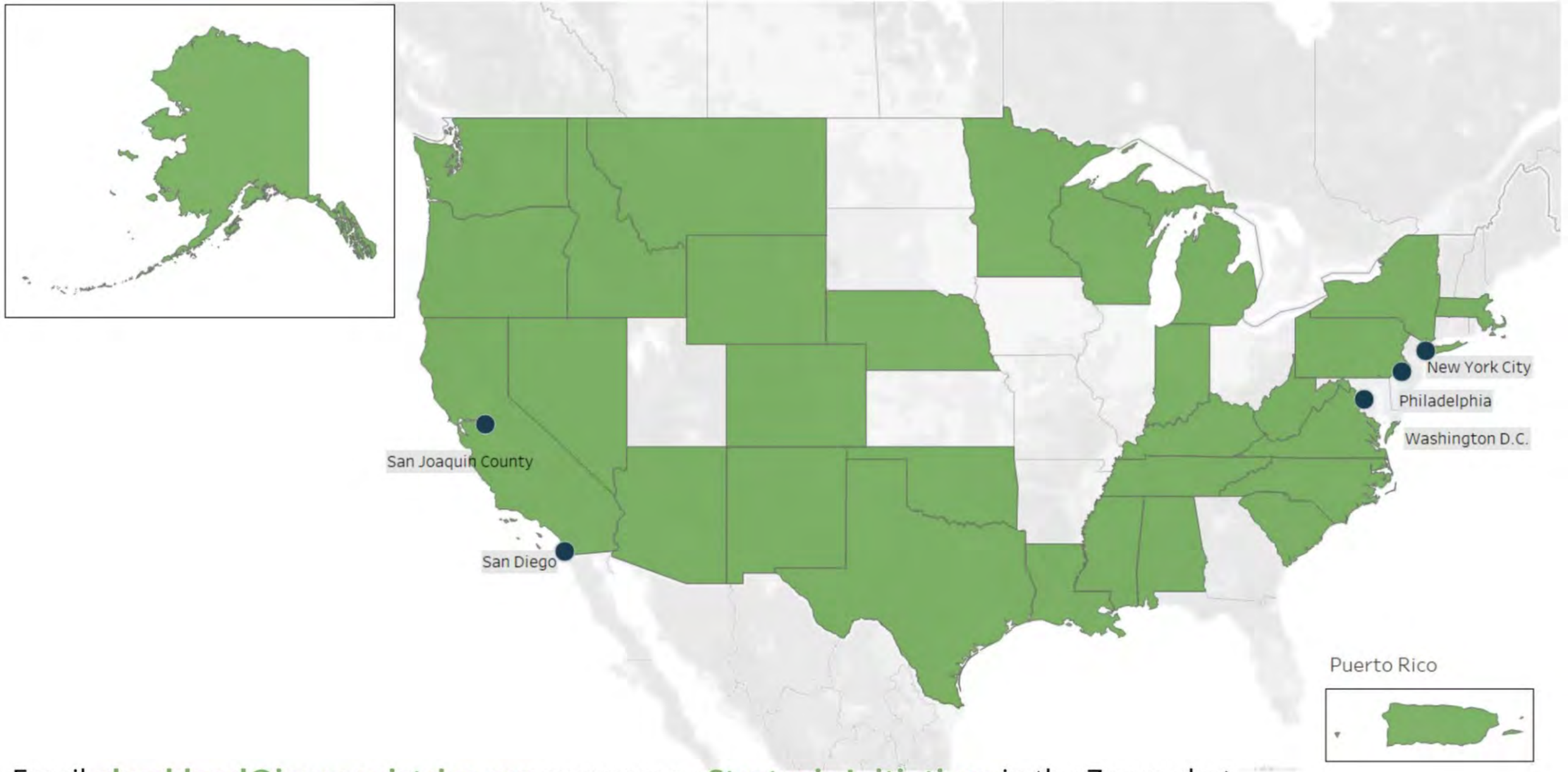
Data Visualization User Groups

Tableau User Group

- Bi-monthly meetings
- Third Tuesday every other month
- 12:00 – 1:00 pm ET
- Peer presentations
- Third party trainer

Email **abuckland@immregistries.org** or message **Strategic Initiatives** in the Zoom chat

111 Individuals across **35** IIS are engaged in AIRA's Tableau User Group



Email **abuckland@immregistries.org** or message **Strategic Initiatives** in the Zoom chat

Tableau User Group:

Thank you to our presenters:

- Jessica Jupe, Texas
- Sydney Kuramoto, Minnesota
- Tavio Pirocchi, Colorado
- Ethan Hawkins, Denver
- Ned Kalapasev, Northern Kentucky
- Paige Snow, Oregon

Thank you to our co-chairs:

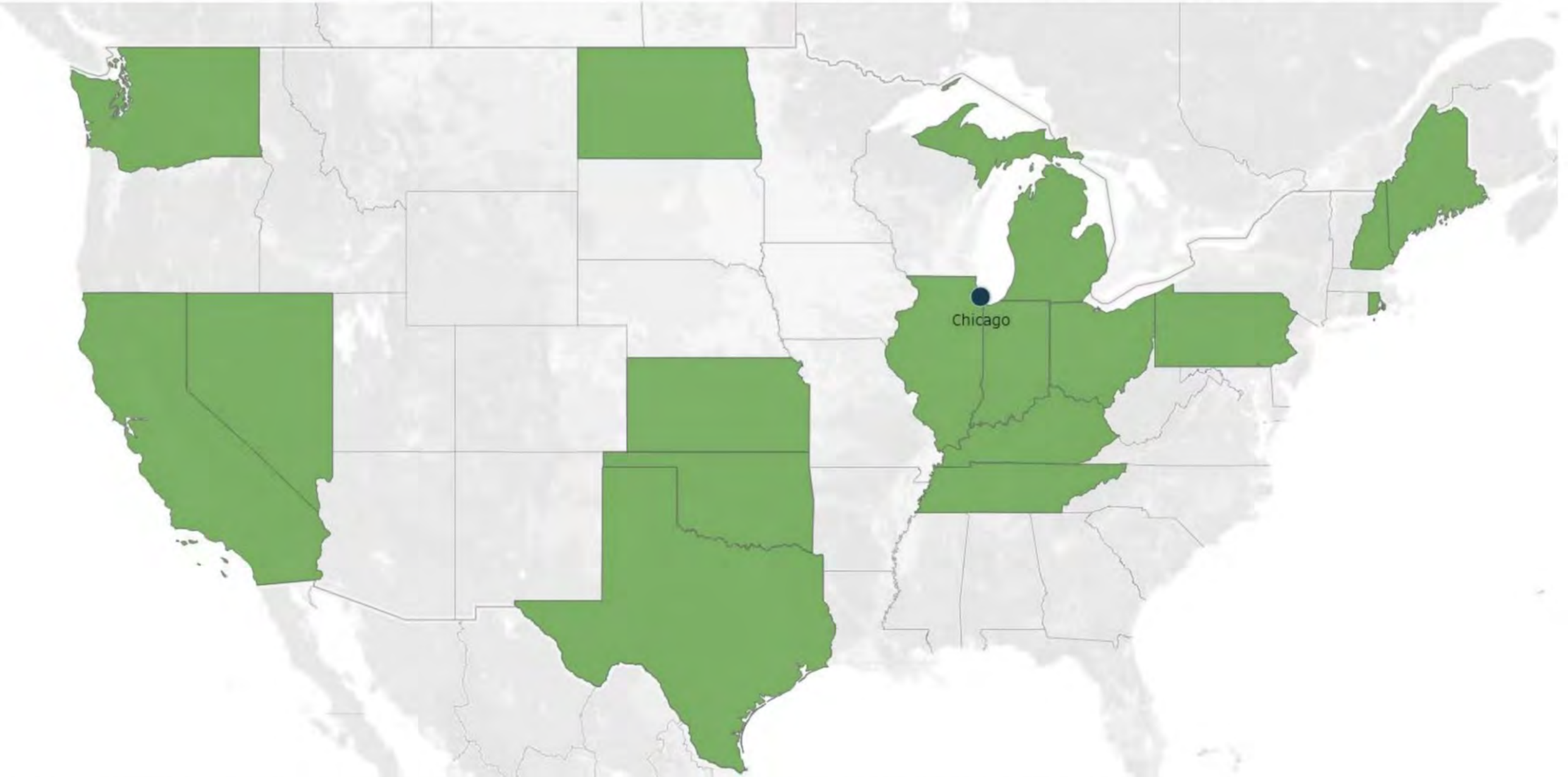
- Sydney Kuramoto, Minnesota
- Tavio Pirocchi, Colorado

Power BI User Group

- Bi-monthly meetings
- Third Tuesday opposite month as TUG
- 12:00 – 1:00 pm ET
- Peer presentations

Email **abuckland@immregistries.org** or message **Strategic Initiatives** in the Zoom chat

46 Individuals across **18** IIS are engaged in AIRA's Power BI User Group



Email **abuckland@immregistries.org** or message **Strategic Initiatives** in the Zoom chat

Power BI User Group:

Thank you to our presenters:

- Abhinav Nalla, Michigan
- Miriam Muscoplat, Penny Nguyn, Minnesota*
- Stephanie Gretsch, Chicago*
- Brandon Vargo, Pennsylvania*
- Mary Woinarowicz, North Dakota*
- Manisha Parmar, Forster McCracken, Kaitlyn Lamb, Envision*

Thank you to our co-chairs:

- Abhinav Nalla, Michigan
- Olenka Aguilar, North Dakota

** Presentations coming in 2022*

Mini-Series

How interested are you in different topics related to IIS analysis?

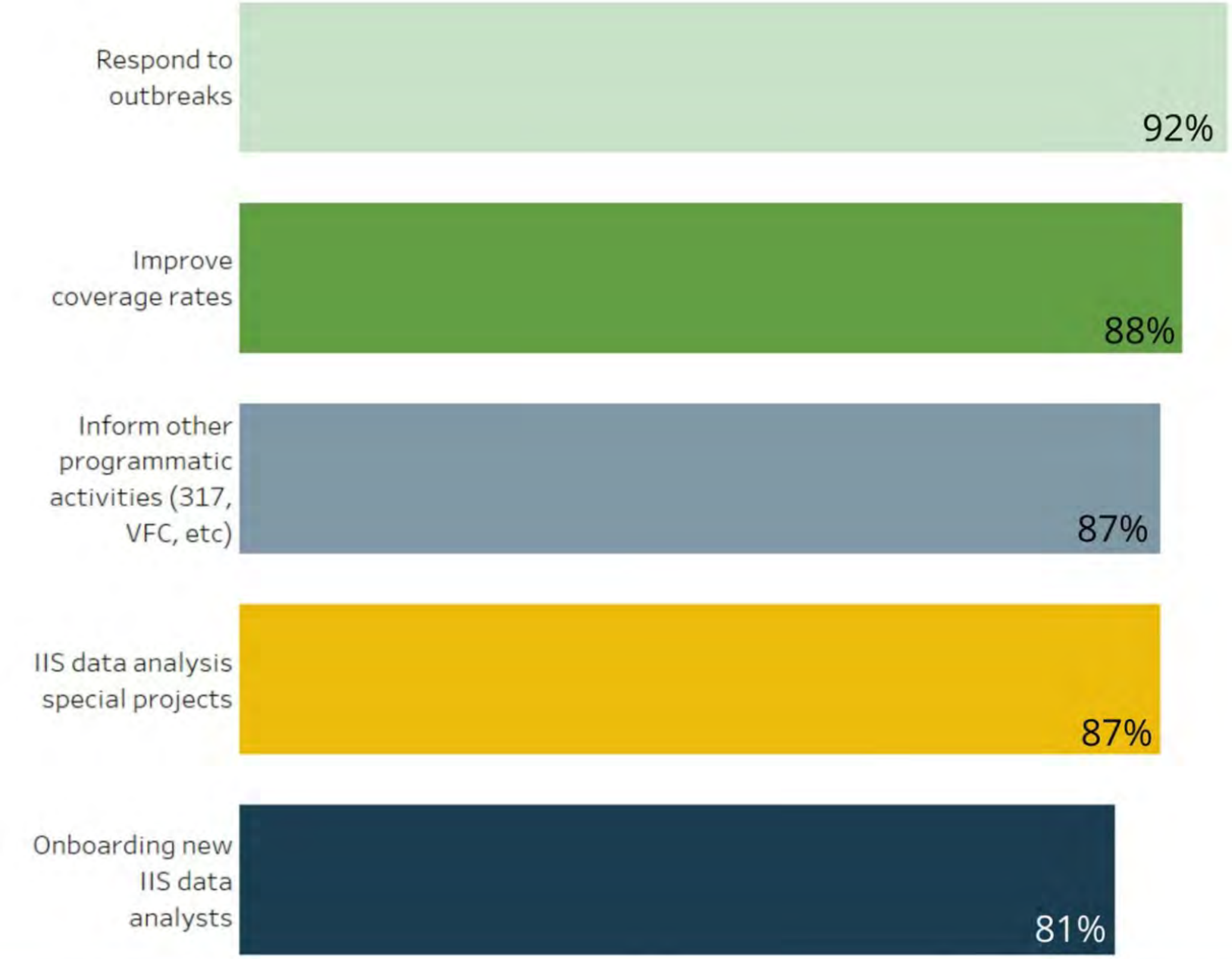
Respond to outbreaks

Improve coverage rates

Inform other programmatic activities (317, VFC, etc)

IIS data analysis special projects

Onboarding new IIS data analysts



Unanimous interest in **all topics** proposed

How interested are you in different communication methods for sharing and learning?

Survey respondents were **interested** or **very interested** in:

91% resource guides

Survey respondents were **interested** or **very interested** in:

91% resource guides

87% webinars

Survey respondents were **interested** or **very interested** in:

91% resource guides

87% webinars

80% peer presentation sharing

Mini-Series Goals

1) Increase community sharing and learning around IIS data analyst topics

2) Improve AIRA resources for IIS data analysts

Email abuckland@immregistries.org or message Strategic Initiatives in the Zoom chat

What to Expect…

- Engage in guided discussion on topics relevant to IIS data analysts
- Connect with peers in similar job roles
- Discourse will be consolidated into a community reference guide

Email **abuckland@immregistries.org** or message **Strategic Initiatives** in the Zoom chat

This is Your User Group!

As participants, you will:

- Drive the content, set the pace
- Present your challenges and successes
- Ask questions of the community and your peers, and more

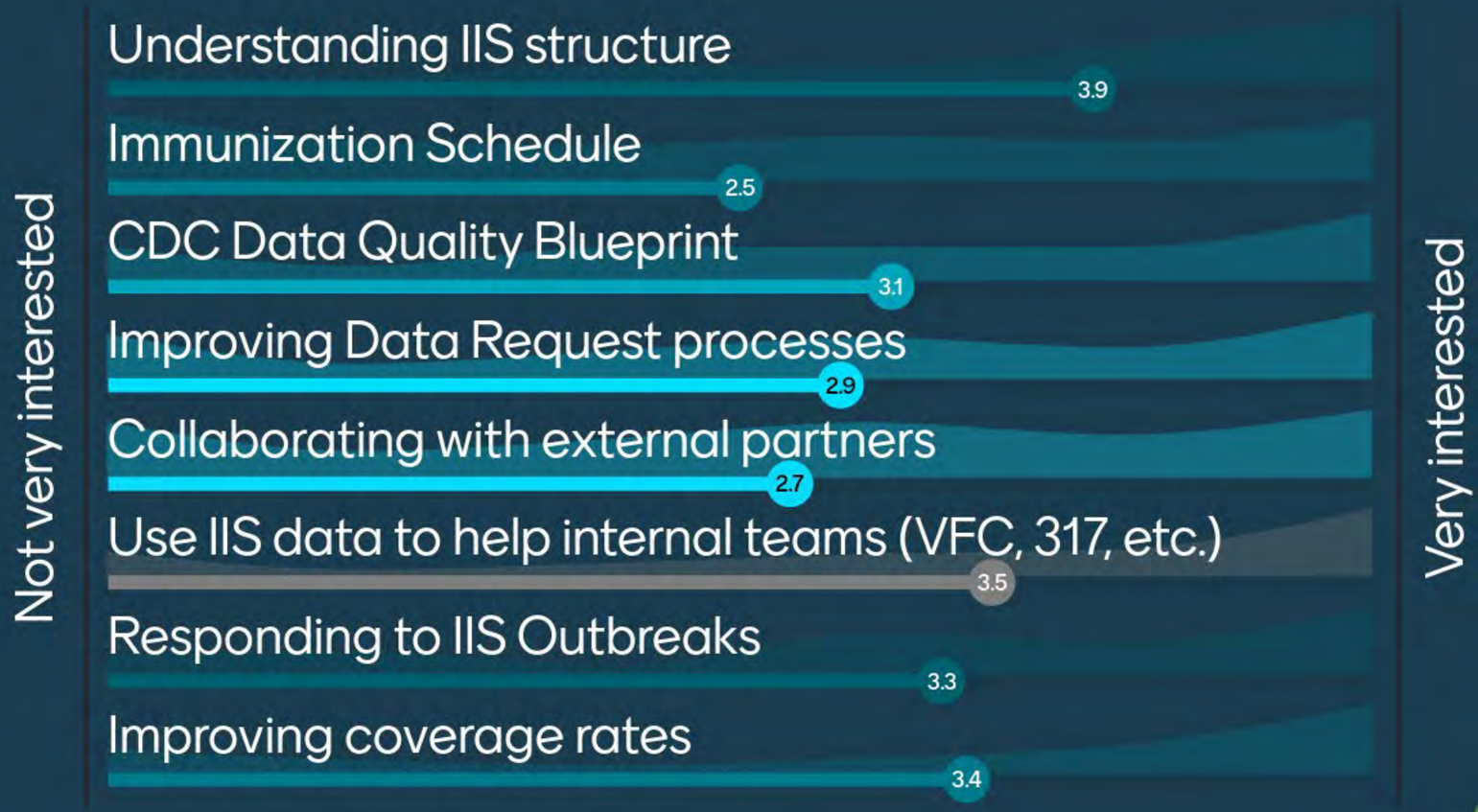
Email **abuckland@immregistries.org** or message **Strategic Initiatives** in the Zoom chat

What is the Commitment?

- All levels of experience encouraged
- Six meetings in six weeks
- No homework outside sessions
- Review community reference guide, as needed
- Late Summer / early Fall 2022

Email **abuckland@immregistries.org** or message **Strategic Initiatives** in the Zoom chat

Please indicate how useful the following topics would be to you:



67

What topics would be useful for your role analyzing IIS data?

Addressing denominator inflation.	HL7 connectivity	Innovative uses of IIS data
Data quality/missing data	Creating SOPs for new employees	Trend analysis
data quality/missingness	addressing disparities	Improving provider data input

What topics would be useful for your role analyzing IIS data?

- Predictive analyses
- Cooperation with other jurisdictions.
- deduplication
- Denominators
- SVIZTCA
- key indicators
- EMR integration
- Deduplication and Bad Merges

Technical Assistance

Staff Augmentation

SAS coding

Tableau Dashboard development

Encrypted environment

Office Hours with AIRA Epidemiologist

Tuesdays
11-12pm ET

Thursdays
3-4pm ET

Targeted Technical Assistance

Data Quality Plan

Custom Programmatic Recommendation

Email **abuckland@immregistries.org** or message **Strategic Initiatives** in the Zoom chat

Targeted Technical Assistance

- 2020: Georgia
- 2021: United States Virgin Islands
- **2022: Oklahoma**
- **2022: Kansas**

Email abuckland@immregistries.org or message Strategic Initiatives in the Zoom chat

Peer-to-Peer Connection

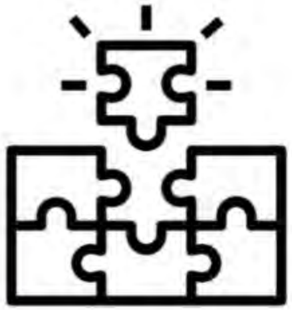
How interested are you in different communication methods for sharing and learning?

62% of survey respondents were **interested** or **very interested** in a **peer-based support program**

Introducing: Epi Connect

1.

pair with your peer

2. 

complementary skills

3.

go to for questions, bounce ideas off of

4.

broaden IIS connections

Email **abuckland@immregistries.org** or message **Strategic Initiatives** in the Zoom chat

What attributes are most important when connecting data analysts?

Online dating style

Interpersonal fit

Swipe Left (no)

18

or

Swipe Right (yes)

40

Work in jurisdictions similar in demographic traits

Swipe Left (no)

18

or

Swipe Right (yes)

45

Adjacent jurisdiction

Swipe Left (no)

23

or

Swipe Right (yes)

39

Use the same programming language

Swipe Left (no)

4

or

Swipe Right (yes)

59

Use the same data visualization software

Swipe Left (no)

6

or

Swipe Right (yes)

55

Worked in IIS longer

Created by Jeff Portaro
from the Noun Project

Swipe Left (no)

25

or

Created by Jeff Portaro
from the Noun Project

Swipe Right (yes)

35

Share the same IIS platform

Swipe Left (no)

15

or

Swipe Right (yes)

36

What attributes are most important when connecting data analyst peers?

time zone

Years of experience in particular language

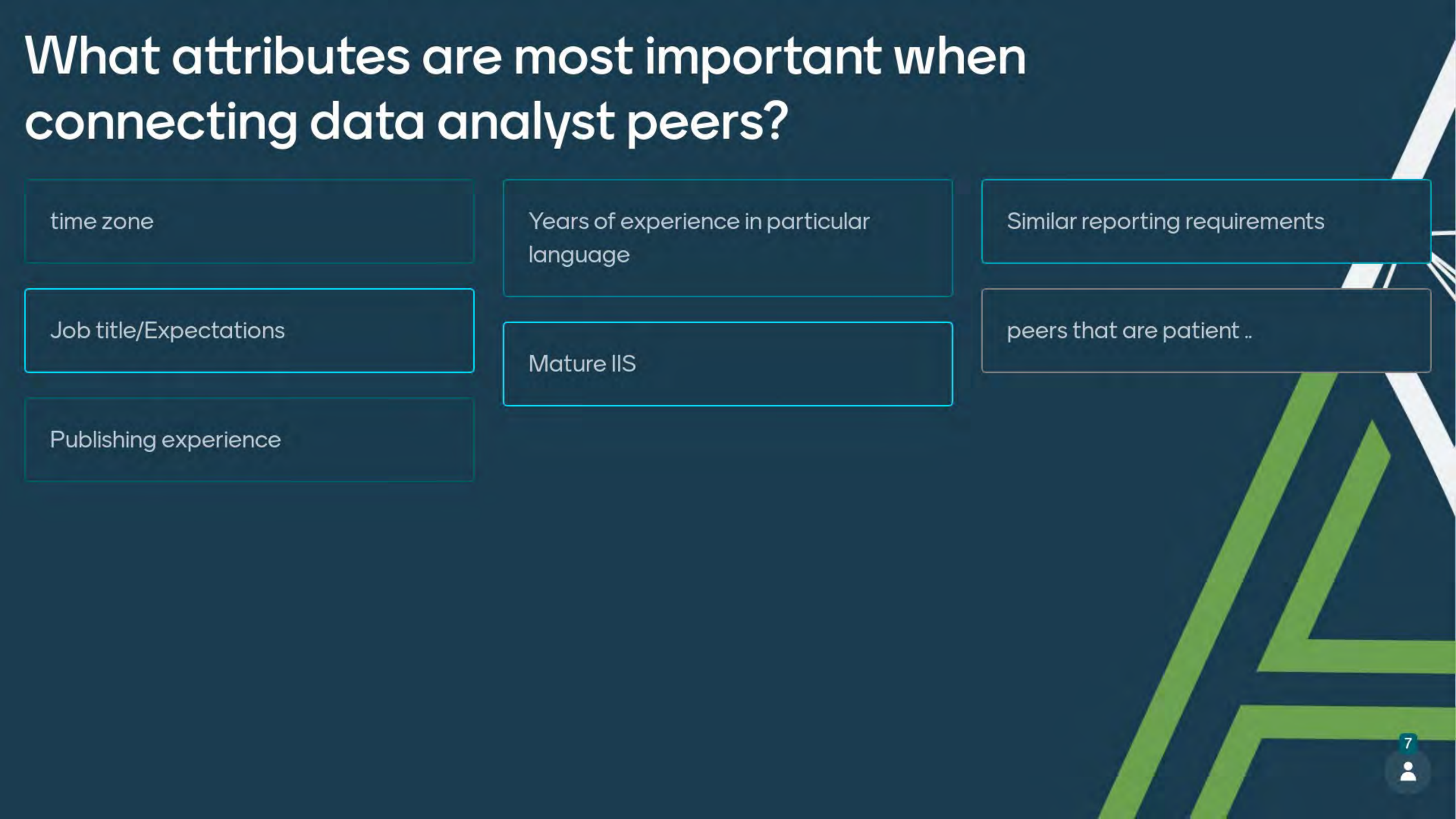
Similar reporting requirements

Job title/Expectations

Mature IIS

peers that are patient ..

Publishing experience



Summary:

Code Library

Summary:

Code Library

Training

Summary:

Code Library

Training

Mini-Series

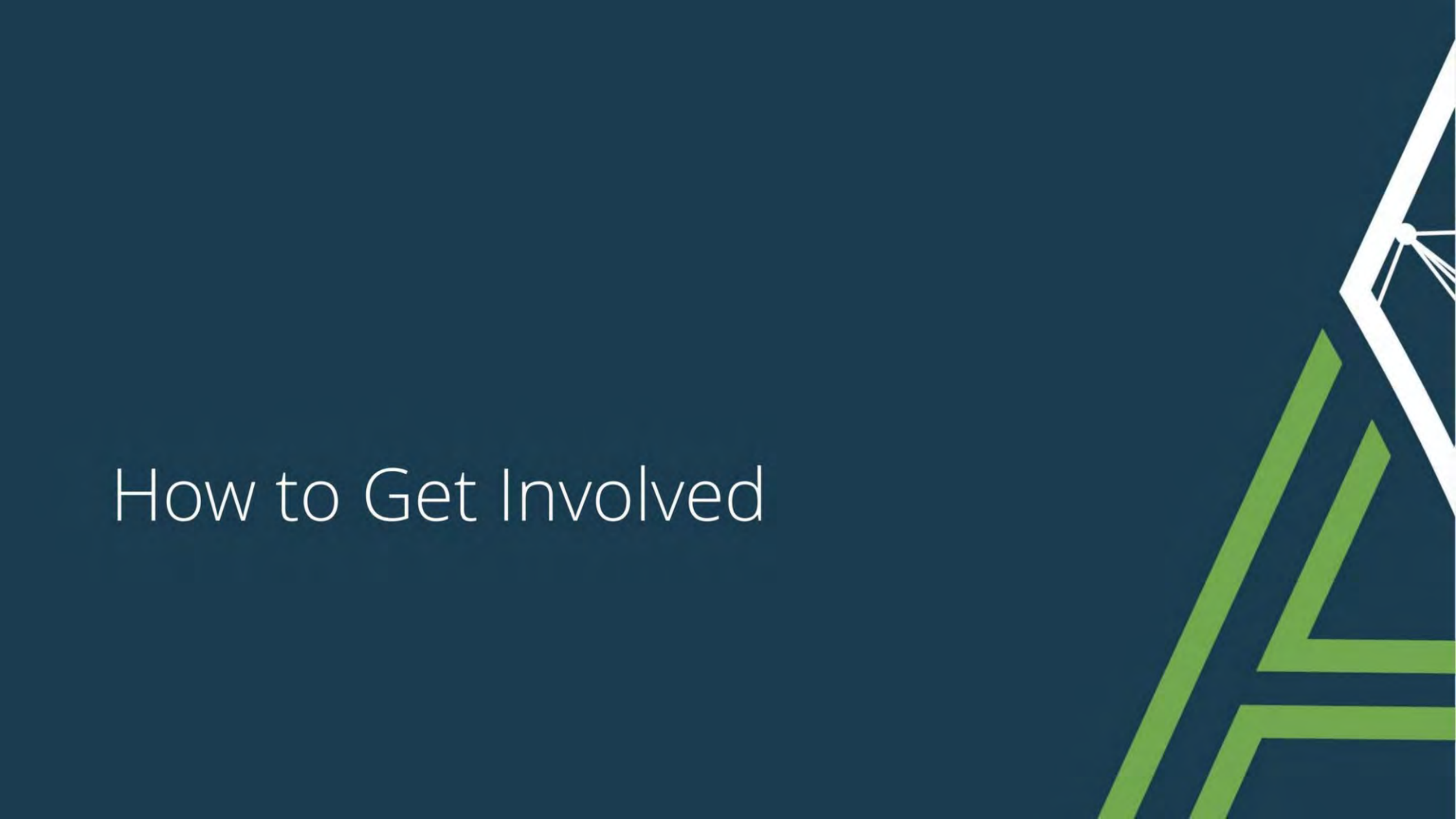
Summary:

- Code Library
- Training
- Mini-Series
- Peer-to-Peer Connection

Summary:

- Code Library
- Training
- Mini-Series
- Peer-to-Peer Connection
- Technical Assistance

How to Get Involved



How to get involved

Email **abuckland@immregistries.org**

or

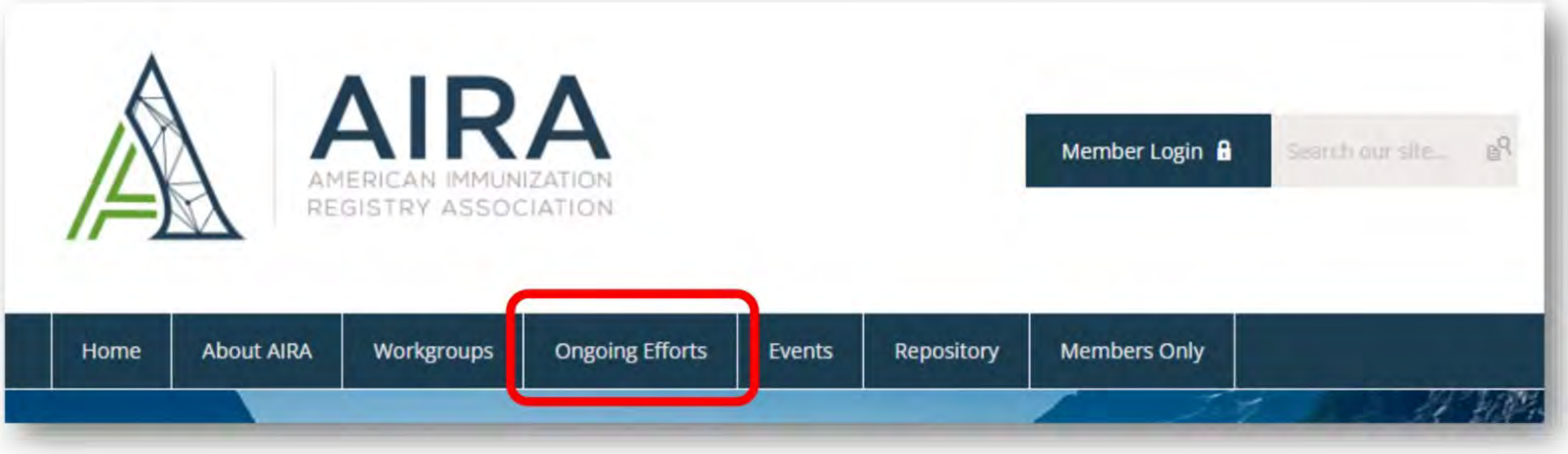
Message **Strategic Initiatives** in the Zoom chat

Visit the Epi Shared Services webpage on the AIRA website:

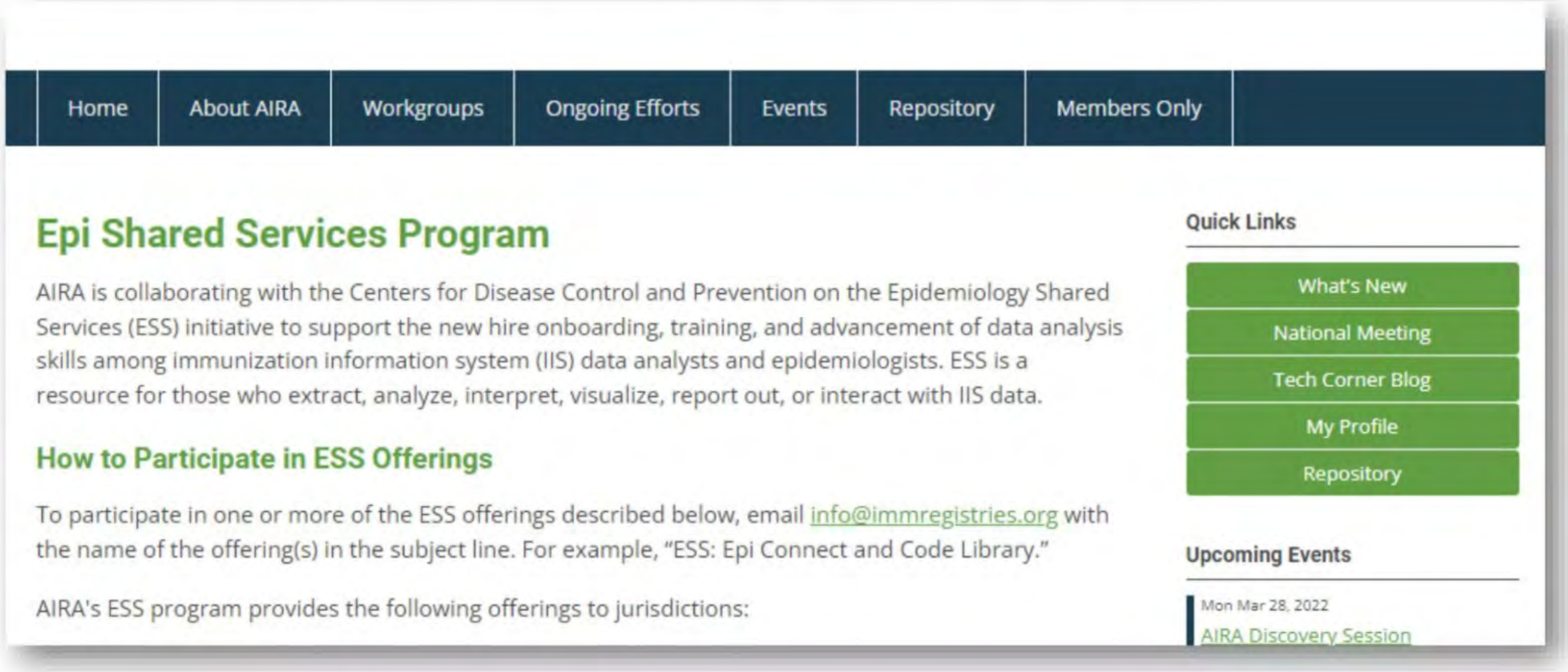
https://www.immregistries.org/epi-shared-services-program

Created by Nick Bluth
from the Noun Project

Epi Shared Services Webpage:



Epi Shared Services Webpage:



Epi Shared Services Webpage:

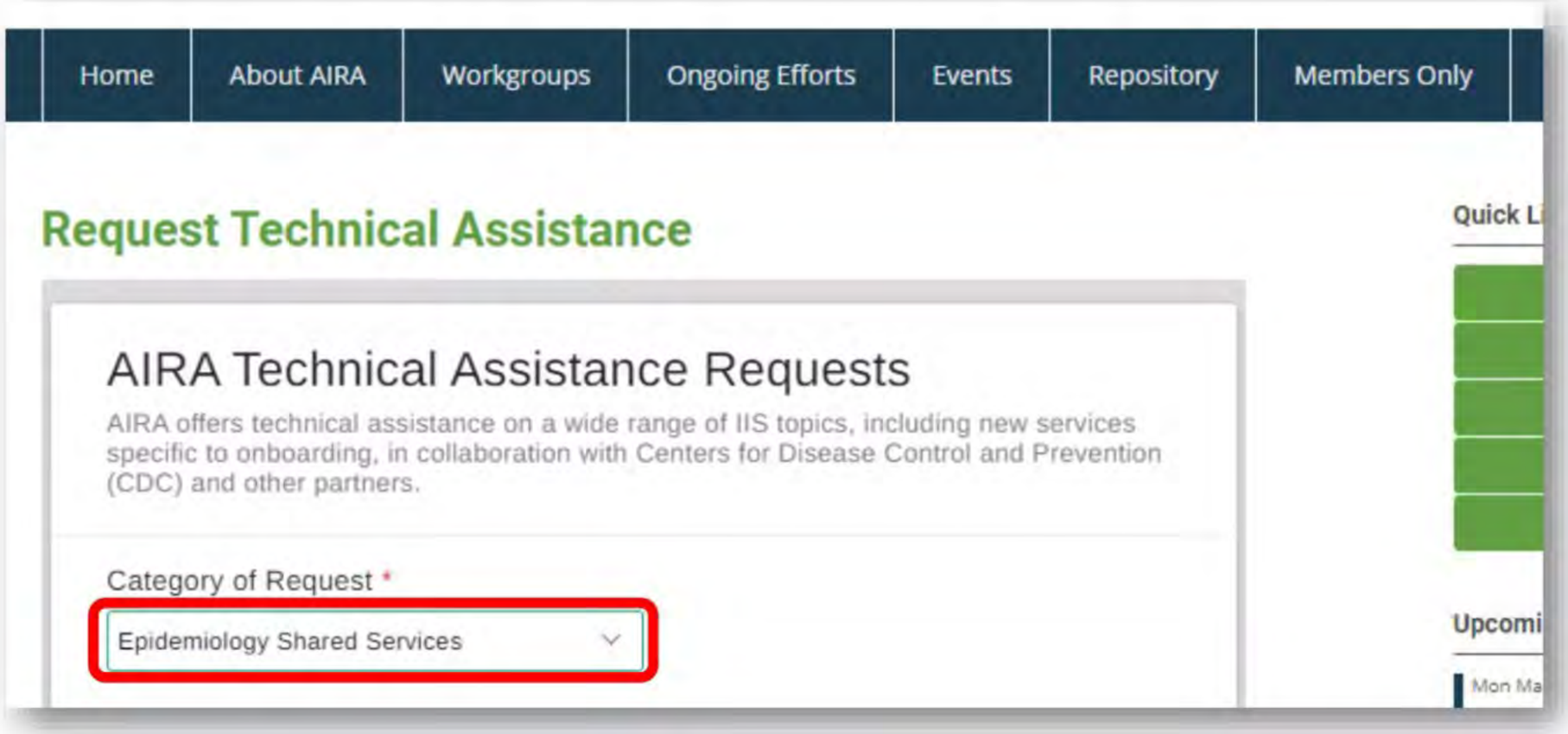
Technical Assistance

- Technical assistance includes support with SAS coding, Tableau dashboard development, and data analysis. Technical assistance can also include help with jurisdiction-specific data quality plans, customized programmatic recommendations, and more.
- AIRA is ensuring our policies and infrastructure are in place to accept and analyze data to meet your needs. Pleas[e] reach out with your requests [s]o we can talk about specific needs.
- Office hours with AIRA's epidemiologist, Taylor Boomsma, are available on Tuesdays from 11 a.m. to noon ET and Thursdays from 3 to 4 p.m. ET. If there is a data set we can help you analyze and visualize, email info@immregistries.org.
- One-on-one technical assistance is available, including jurisdiction-specific data quality plans, customized programmatic recommendations, and more.

How to Request ESS Support

Complete [a] Technical Assistance Request [t]o initiate ESS support. Within the request form, select "Epi Support/Data Visualization Support" as the category of request.

Epi Shared Services Webpage:



Special *Thank You* to:

- **Dora Durmont, PhD, MPH** – Rhode Island Department of Health
- **LaTreace Harris, MPH** – Centers for Disease Control & Prevention
- **Nkenge Jones-Jack, PhD, MPH** – Centers for Disease Control & Prevention
- **Bhavini Murthy, MD, MPH** – Centers for Disease Control & Prevention
- **Kevin Dombkowski, DrPH**– University of Michigan School of Public Health
- **Samantha Chao, MPH, PMP** – Public Health Informatics Institute
- **Nathan Bunker** – American Immunization Registry Association
- **Assiatou Diallo, MPH** – American Immunization Registry Association
- **Kristi Siahaya, MBA, CHES** – American Immunization Registry Association

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 May 23, 2022