



**AIRA**  
AMERICAN IMMUNIZATION  
REGISTRY ASSOCIATION

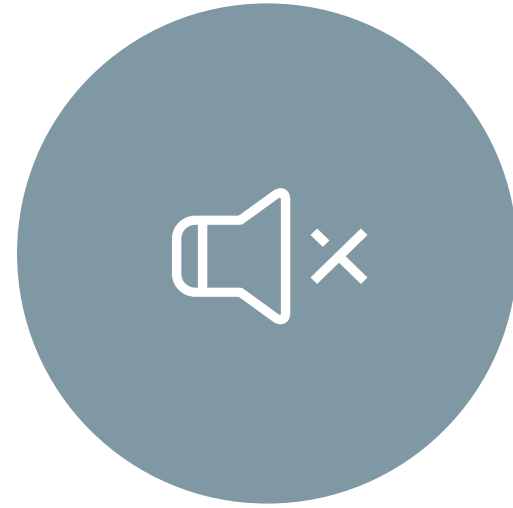
# AIRA's Discovery Session on IIS and Health Equity

AIRA Discovery Session  
June 26, 2023  
4 PM EST

# AIRA Discovery Session



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

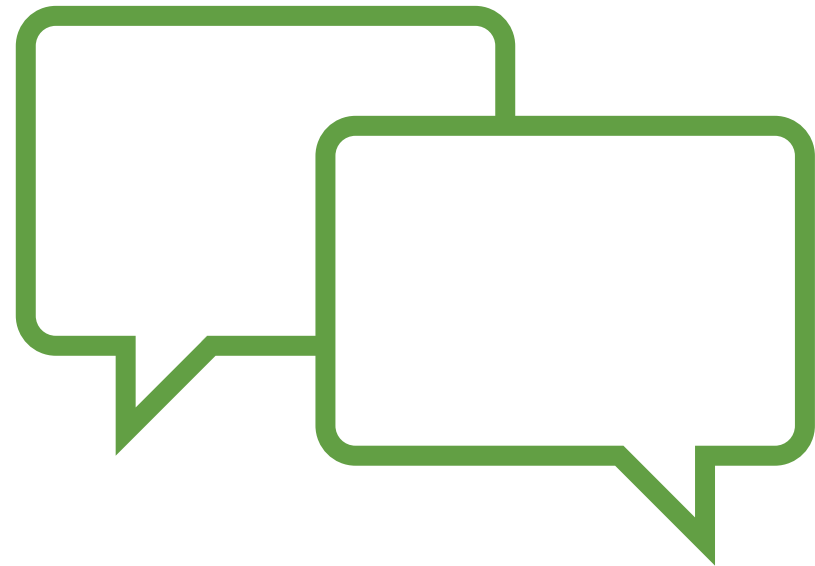


All phone lines  
are muted



# Technical Support

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

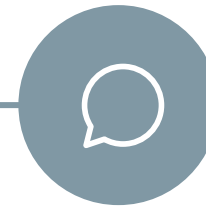


# Questions

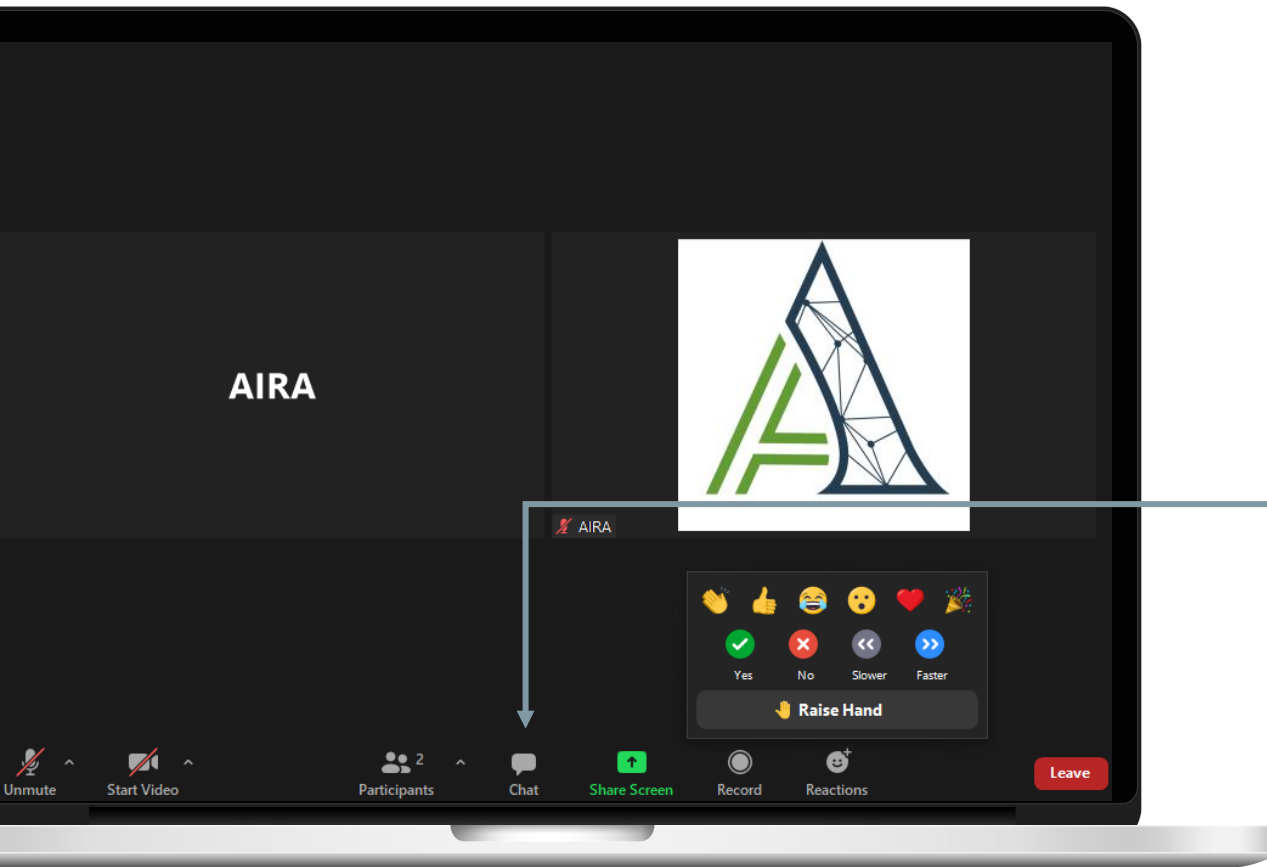
## How do I ask a question?

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 Speakers

- **Ryan de la Rambelje**, MBA-SCM, CPM, and **Kuziva Masomere**, MPH, Michigan Department of Health and Human Services
- **Naomi Jiter**, MPH, and **Sydney Kuramoto**, MPH, Minnesota Department of Health





**AIRA**  
AMERICAN IMMUNIZATION  
REGISTRY ASSOCIATION

# Increasing Health Equity Through IIS

Kuziva Masomere, MPH

Immunization Assessment & Local Support Section/Health Equity Coordinator

Ryan de la Rambelje, MBA –SCM, CPM

Immunization Assessment & Local Support Section/IIS Manager

# Agenda

**Why – Background & Benefits**

**How – Driving & Sustaining Action**

**Challenges & Wins**

**Future Opportunities**

**Closing**

**Questions**

# Why: Background & Benefits

## Challenges and Risk

- Staff time, resources, and expertise
- Support and reception

## COVID-19 and Mpox Lessons Around Health Equity

- Differing data needs, information and vaccine access, communication

## Addressing Current and Anticipating Future Needs

## Driving Health Equity and Diversity, Equity, and Inclusion Action

- Taking the next step after training and acting on awareness

# How: Driving & Sustaining Action

## Identifying Barriers and Areas for Improvement

- All team members can identify barriers, leveraging impact of diverse perspectives

## Health Equity Coordinator

- Collects barriers and assures they are addressed, guides priorities

## Health Equity Work Group

- Rotating members for experience and perspectives
- Lead when barriers impacting individual's primary work

## Leadership Support but Driven by Team Members

# Challenges & Wins

## **Expansion of Race and Ethnicity Fields**

- Largest coverage of race and ethnicity in MDHHS
- First to include Federally recognized MI tribes

## **Full Language Integration to Identify Communication Barriers**

- Enriching population analysis and program communication

## **Removing Sex from Immunization Record**

- Supporting privacy and safety during international travel

## **Changing Gender to Sex in IIS**

- Focusing on necessary information for immunizations

# Challenges & Wins

## **Access to Immunization Records**

- Synchronizing identification criteria with Vital Records
- Identifying issues with legacy Administrative Rules
- Prevent record access being a barrier to health and professional success

## **ADA Compliant and Accessible Forms**

- Leading MDHHS ADA accessibility form review and updates
- Screen readable and accessible

## **DEI Climate and Culture Survey**

- Intertwining diversity, equity, and inclusion and health equity
- Assessing strengths and addressing weaknesses

# Future Opportunities

## **Addressing Legacy Administrative Rules and Technology Access Issues**

- Support digital form access and submission with paper option
- Improve guardian and minor access to records
- Allow broader forms of identity verification
- Provide public CDS access and provider site contact information
- Future proof for technological, public behavior, and programmatic changes

## **SOGIE**

- Develop the ability to connect IIS records with SOGIE when needed
- Utilizes a department wide Master Person Index and standard data

# Closing

## **Criticality of Energizing Awareness into Action**

- Training and awareness helps identify barriers
- Acting on identified barriers creates meaningful change

## **Formulating Success, Team Engagement and Leadership Support**

- Leadership support especially around risks, tools and importance
- Team engagement drives diverse perspectives to meet public needs

## **Investing in Current Barriers While Avoiding Future Barriers**

- Distilling barriers down to program and public health needs
- Preparing to address future barriers by bringing lessons forward
- Avoiding creating new barriers in processes, procedures, and technology

# MCIR Team Acknowledgments

MCIR Health Equity Analyst – Kuziva Masomere

MCIR Administrative Assistant – DaVasha Lobbins

Data Quality & Onboarding Analyst – Alissa Payne

Data Quality & Onboarding Analyst – Sydney Zaldana

MCIR School & Childcare Coordinator – Jacquelyn Jones

Systems Improvement Analyst – Adam Griffith

Systems Performance Analyst – Tracy Spitzley

Project Manager – Cat Rathbun

Unit Manager, Comm, Education, and Training – Kim Scott

Unit Manager, Provider Support & Data Quality – Doug Smith

Unit Manager, MCIR Region 1 – Rebecca Thomas

Assessment and Local Support/IIS Manager – Ryan de la Rangel

# Questions?

Kuziva Masomere, MPH  
Immunization Assessment & Local Support Section/Health  
Equity Coordinator  
[masomerek@Michigan.gov](mailto:masomerek@Michigan.gov)

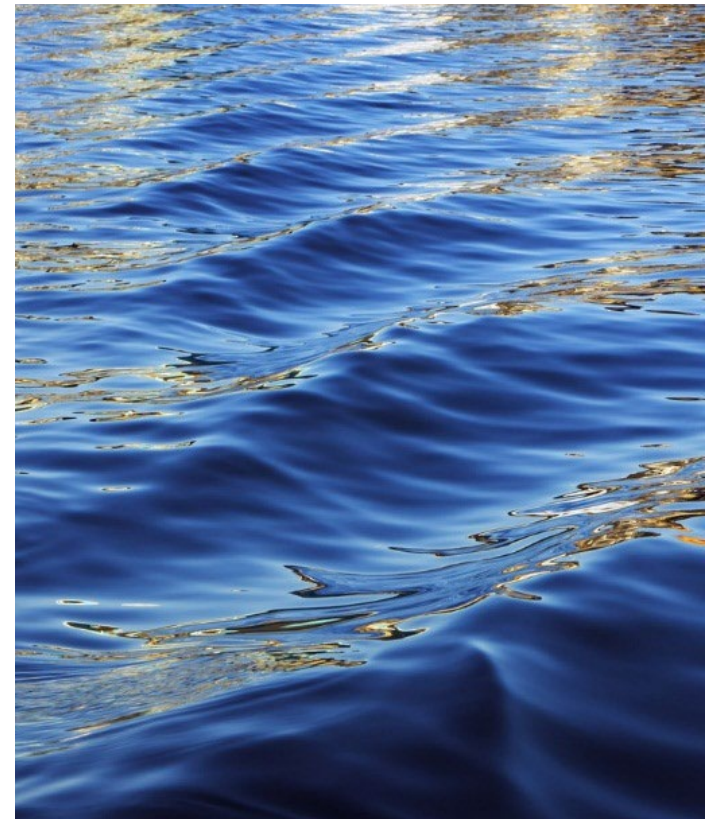
Ryan de la Rambelje, MBA –SCM, CPM  
Immunization Assessment & Local Support Section/IIS Manager  
[delarambeljer@Michigan.gov](mailto:delarambeljer@Michigan.gov)



# The effect of IIS-to-IIS data exchange on sub-populations

**Naomi Jiter, MPH**

Minnesota Immunization Information Connection (MIIC)





# Minnesota (MIIC) Perspective

- Larger study includes two other jurisdictions:
  - **Michigan (MCIR)** – Leading the study, presented with MIIC at the AIRA National Conference
  - **Wisconsin (WIR)** – Will be running the analysis
- Results are preliminary

**Problem:** The smaller the group, the noisier the coverage estimate

Out-of-state care

Incomplete reporting

*Total vaccinated*  

---

*Eligible population*

Denominator inflation

Missing demographic data

## Why care?

- Aggregating to larger groups can **miss clusters** of under-vaccination
- Some small groups face **outsized health risks:** rural, minorities, etc.

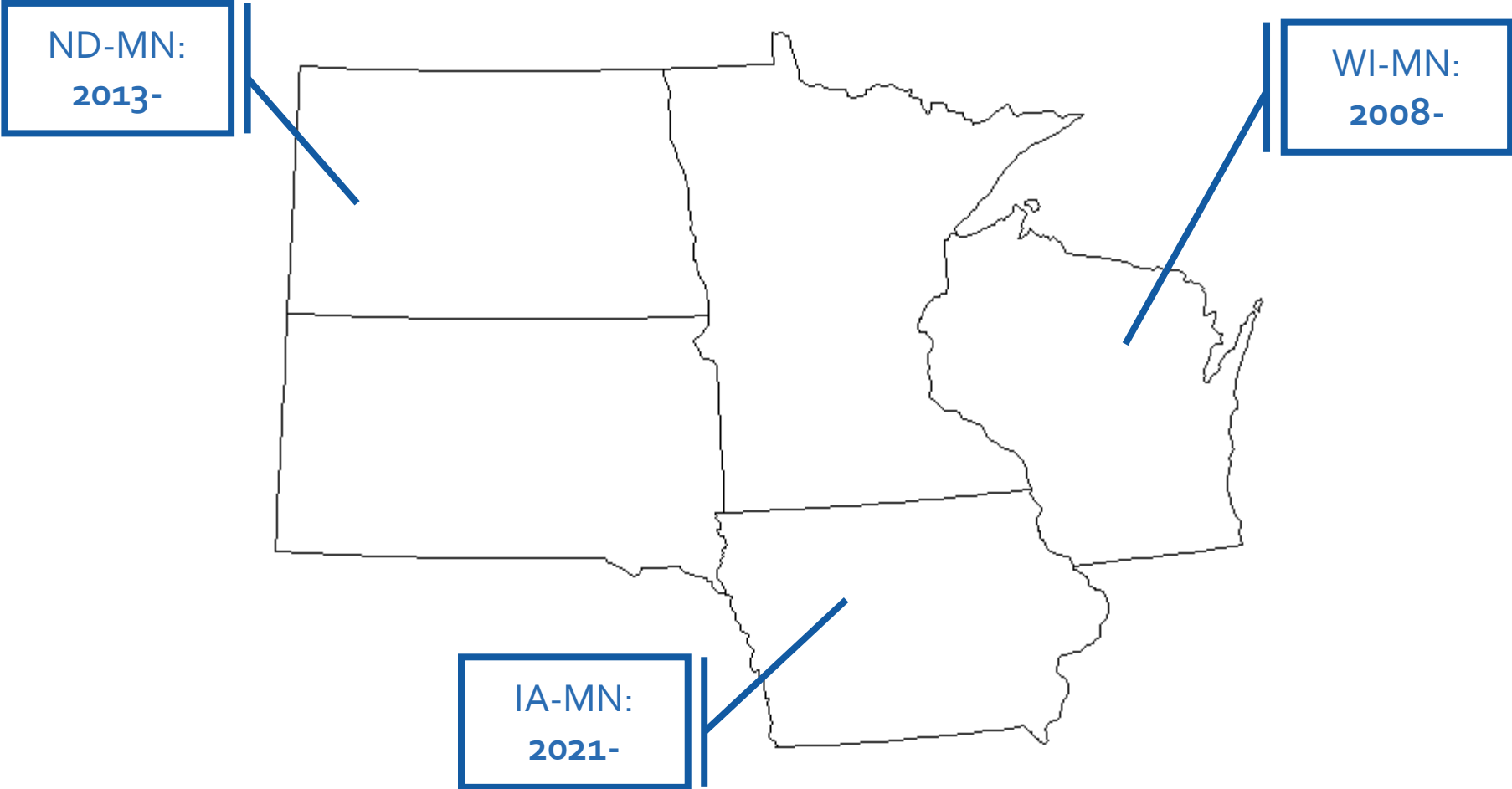


# Research Question

How can **data exchange** across borders improve estimates within borders?



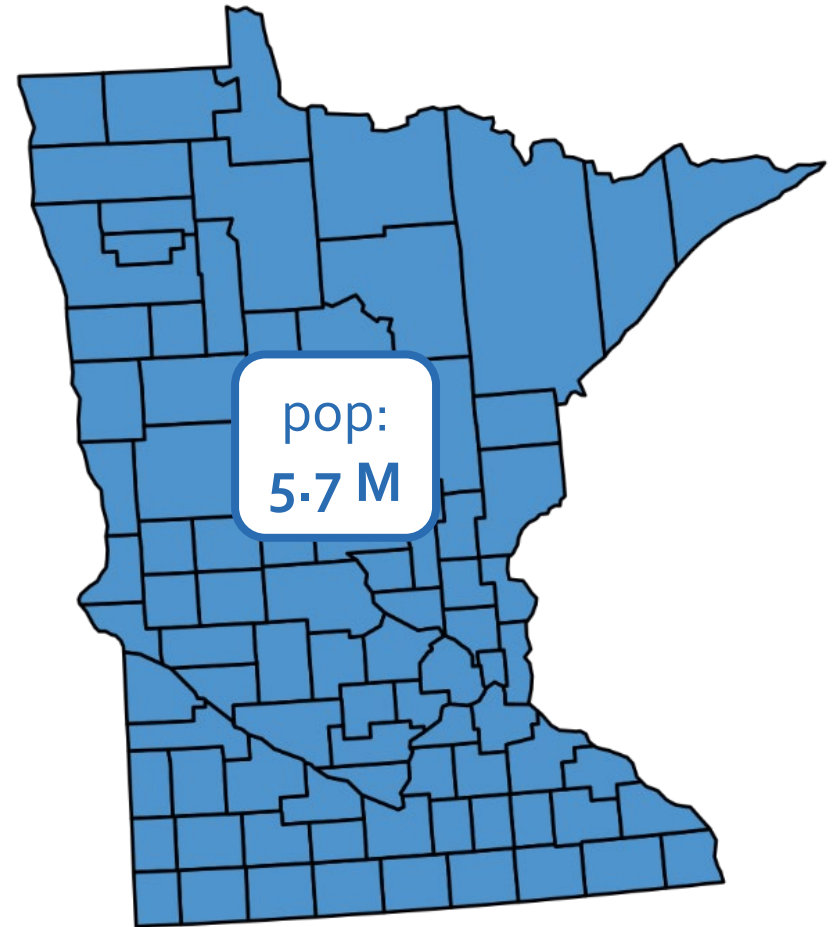
# Interjurisdictional Data Exchange with MIIC



\* Flat file data exchange

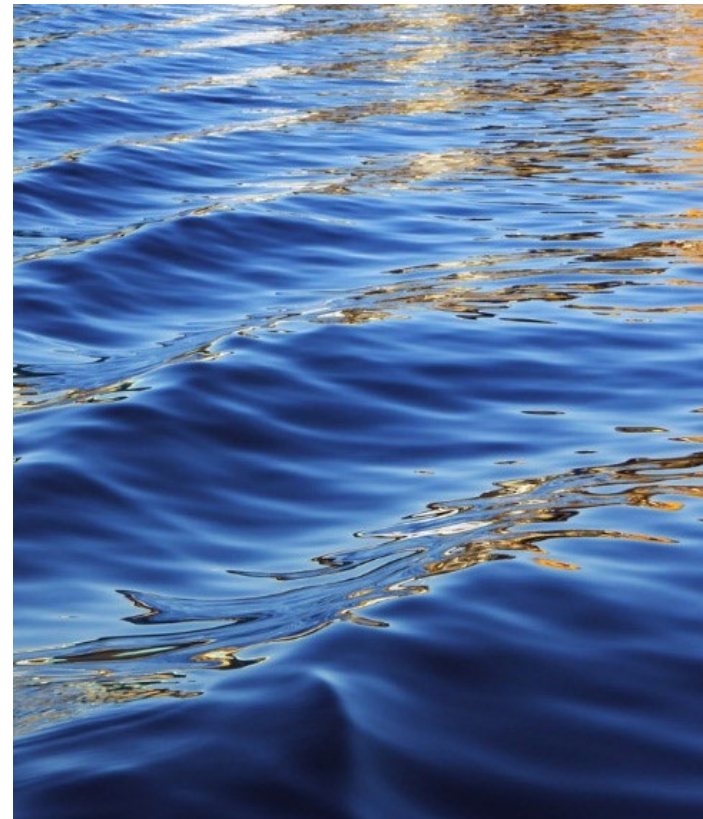
# MIIC

- 8.7 million **person** records
- 135 million **immunizations**
- Mandatory reporting:
  - COVID-19
  - Pharmacies





# Methods





## Shared shot:

Reported by a partner IIS *before* any existing historical dose of the same administration date & CVX

# Procedure

## “Minimum datasets”

- Full history of **persons with 1+** shared shot
- Sex, date of birth, race/ethnicity, current county of **all** persons
- Census data for 18+ denominator

Shared  
codebase



## Results

- Shared shots given to who/where/when?
- Coverage increase thanks to shared shots:

*Persons up to date **only** if  
shared shots included*

*Eligible population*

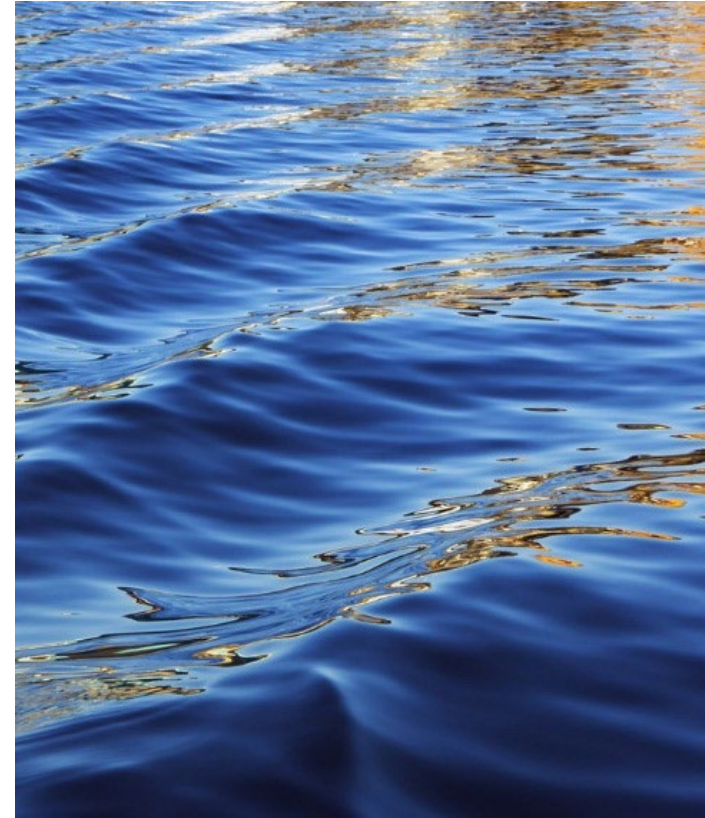


National Vital Statistics System



# Results

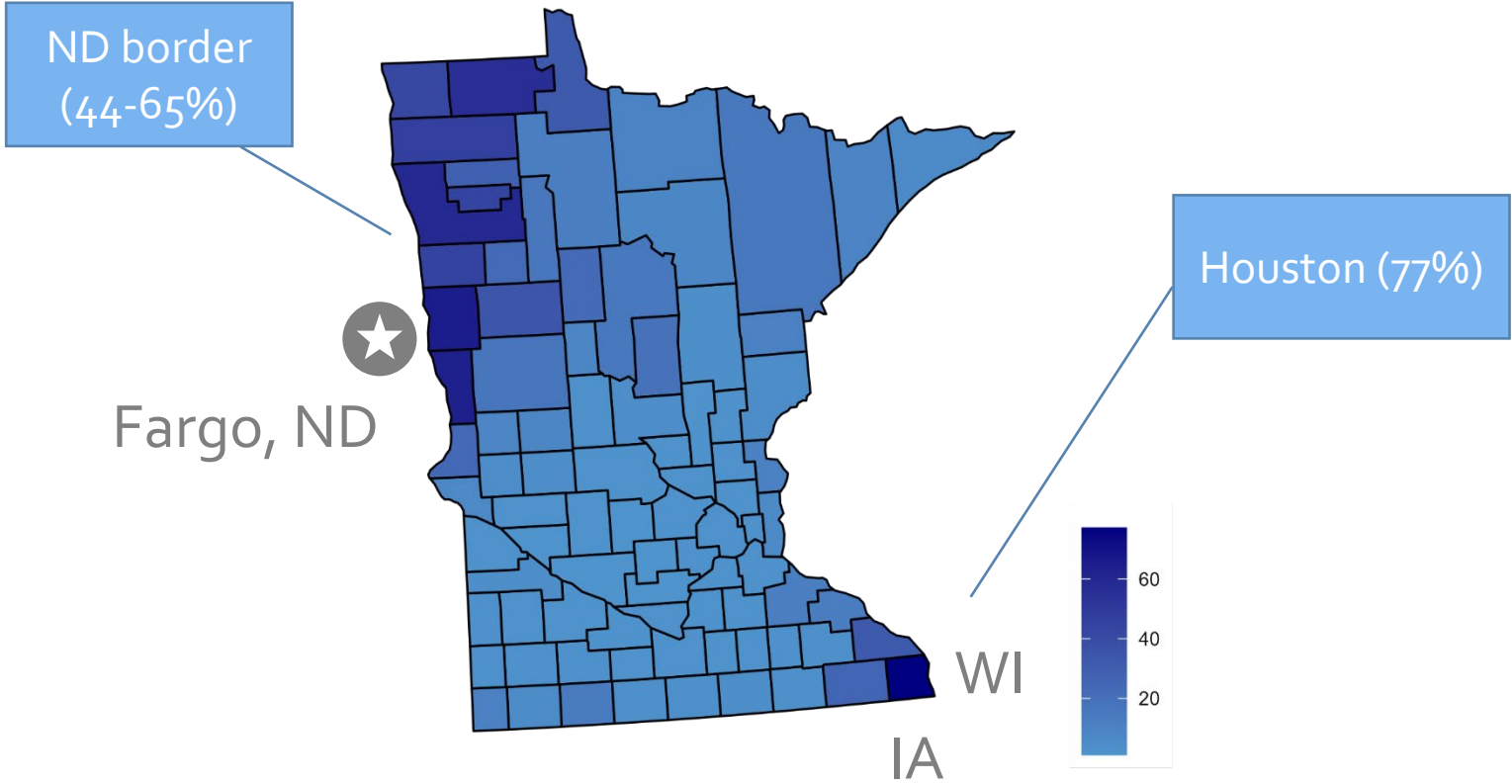
Distribution of shared shots across entire state



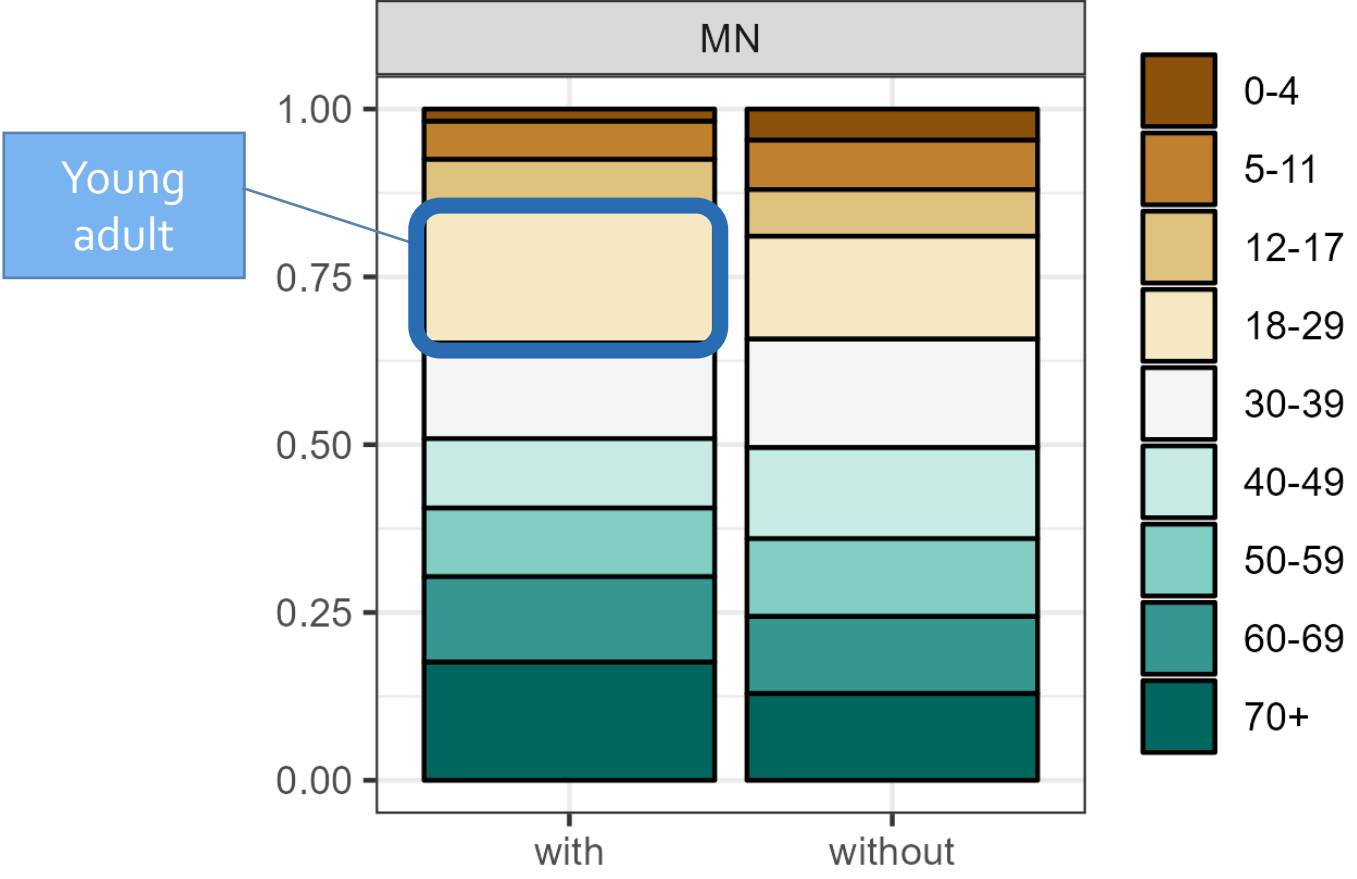
year reported	n
2008	6,890
2009	112,671
2010	283,712
2011	213,044
2012	238,805
2013	593,551
2014	255,003
2015	353,165
2016	297,749
2017	286,421
2018	359,853
2019	306,424
2020	270,593
2021	656,411
2022	375,629
<b>total</b>	<b>4,609,921</b>

# Shots reported to MIIC by IA, ND, & WI

Percent of population with a shared shot  
(Statewide: 7.9%)



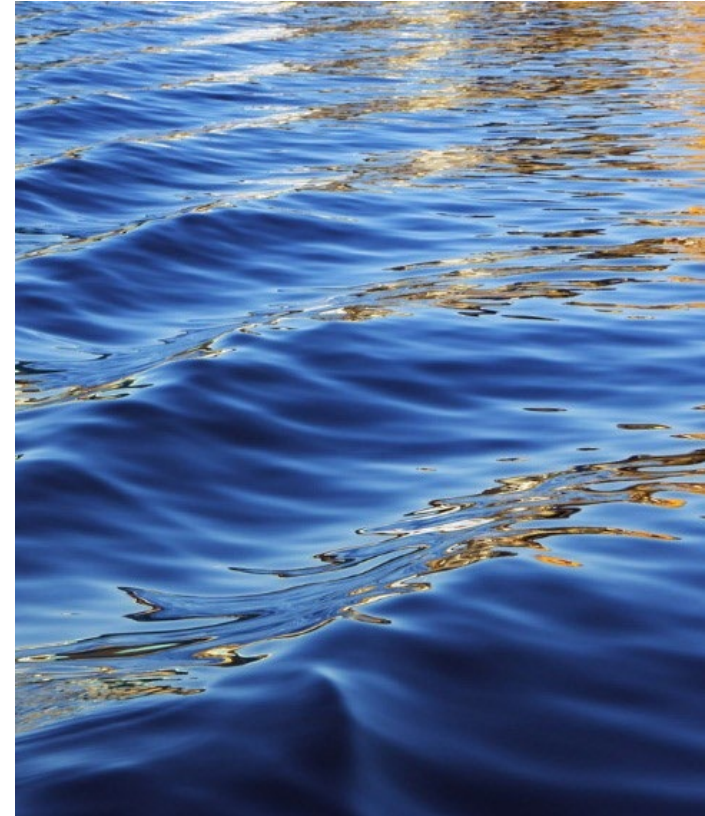
# Persons in MIIC with/without 1+ shared shot by age



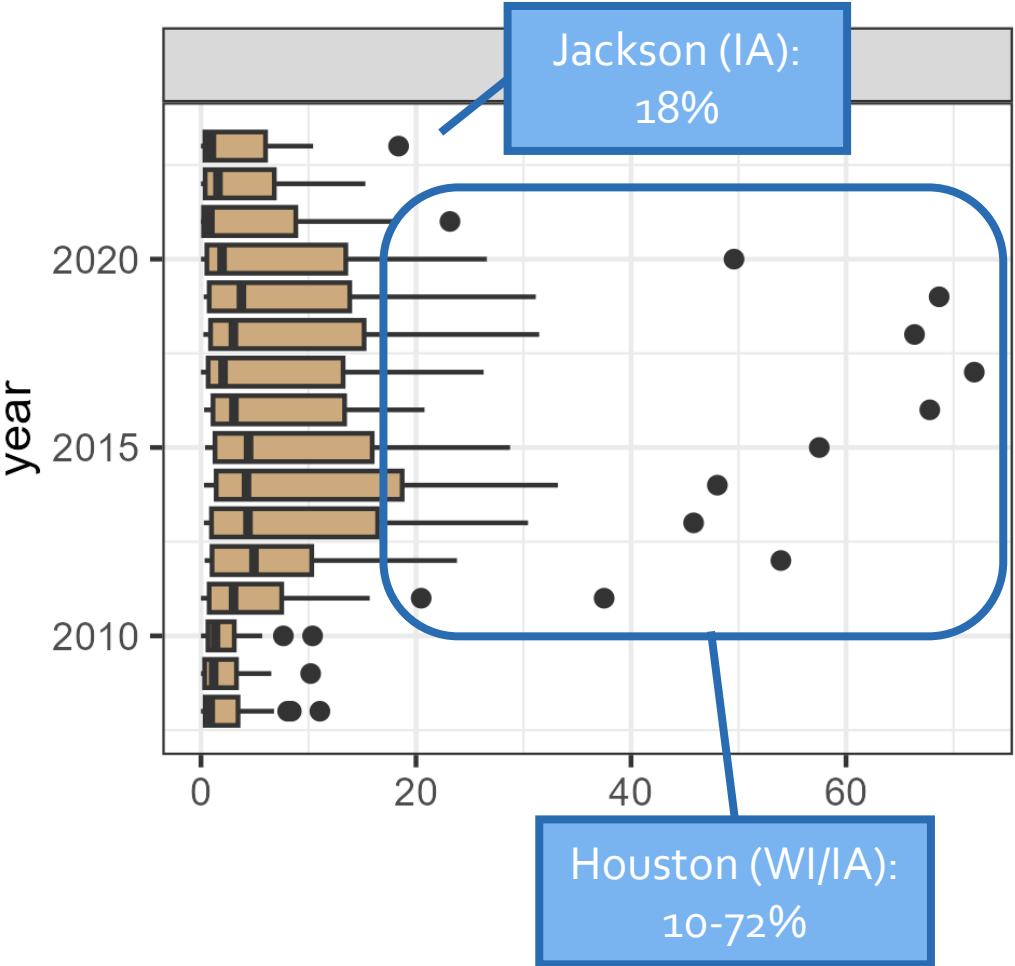


# Results

Coverage increases within border counties (n=24)

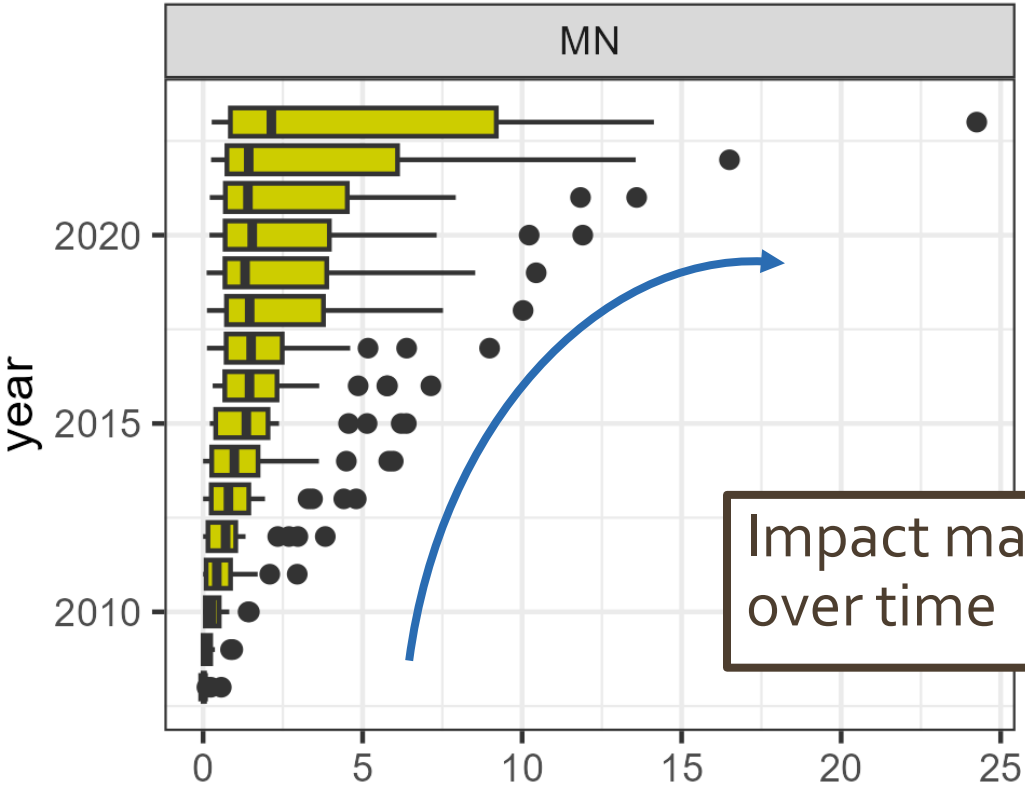


# % UTD Increase: 19-35 months



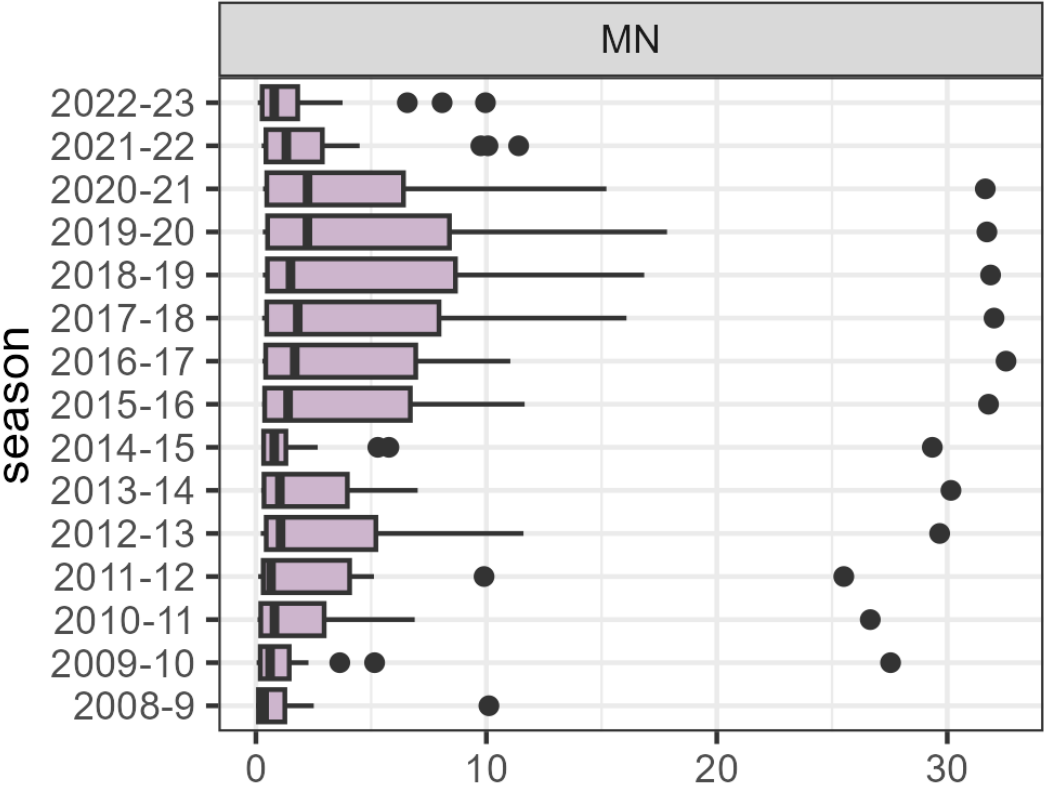
4313314

# % UTD Increase: 13-17 years



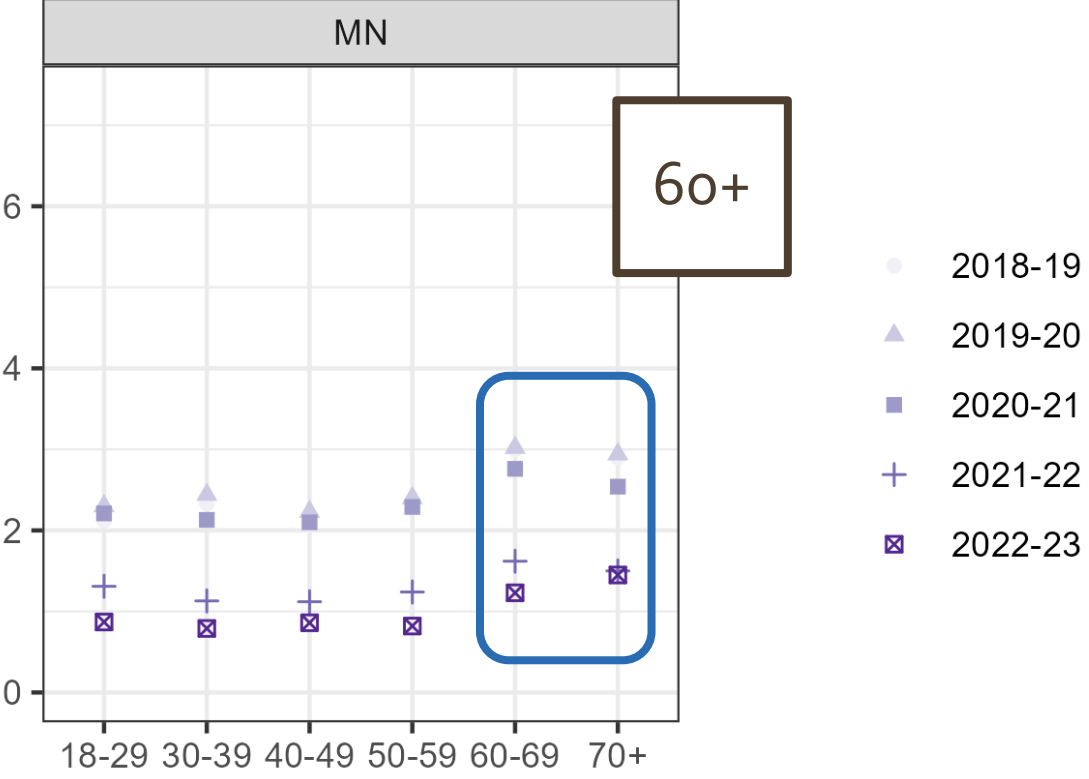
132321

% UTD Increase: 18+



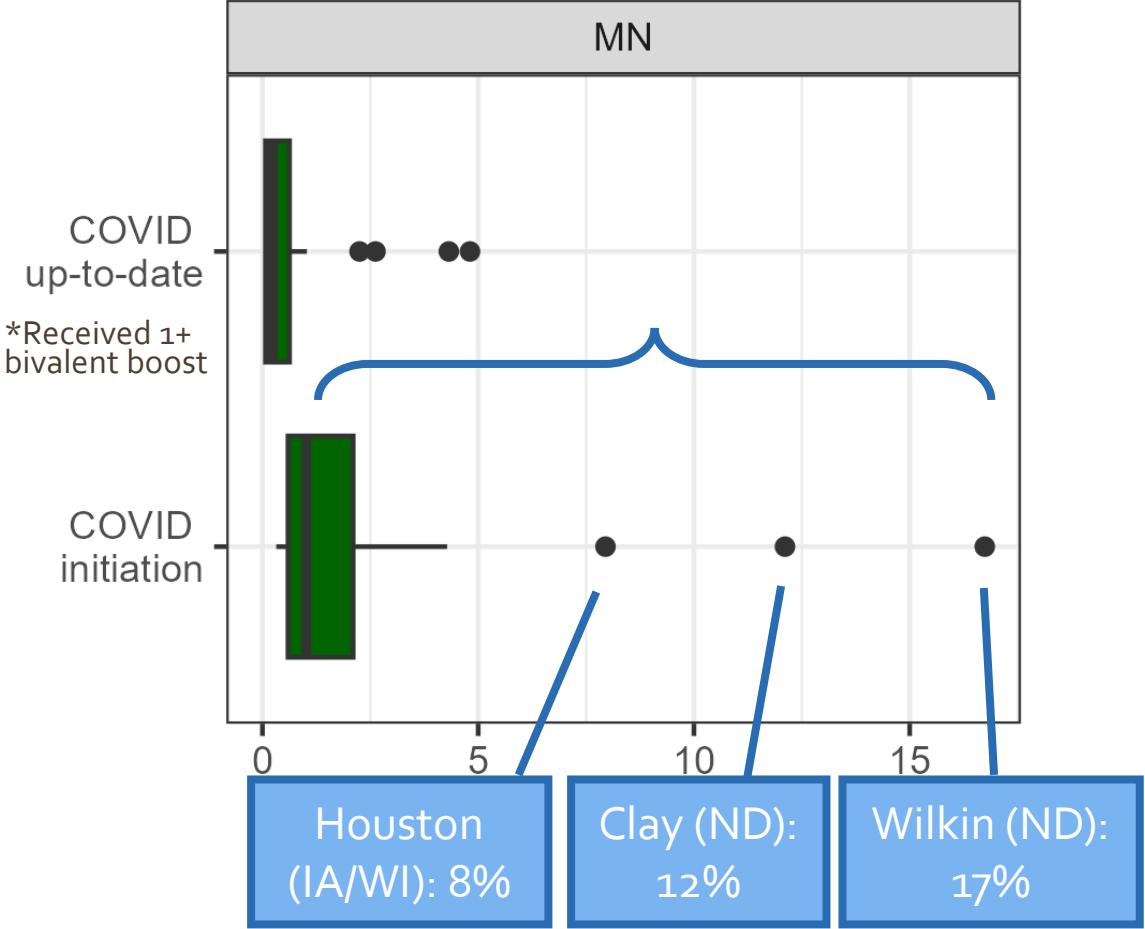
# Seasonal flu

# % UTD Increase by Age: 18+



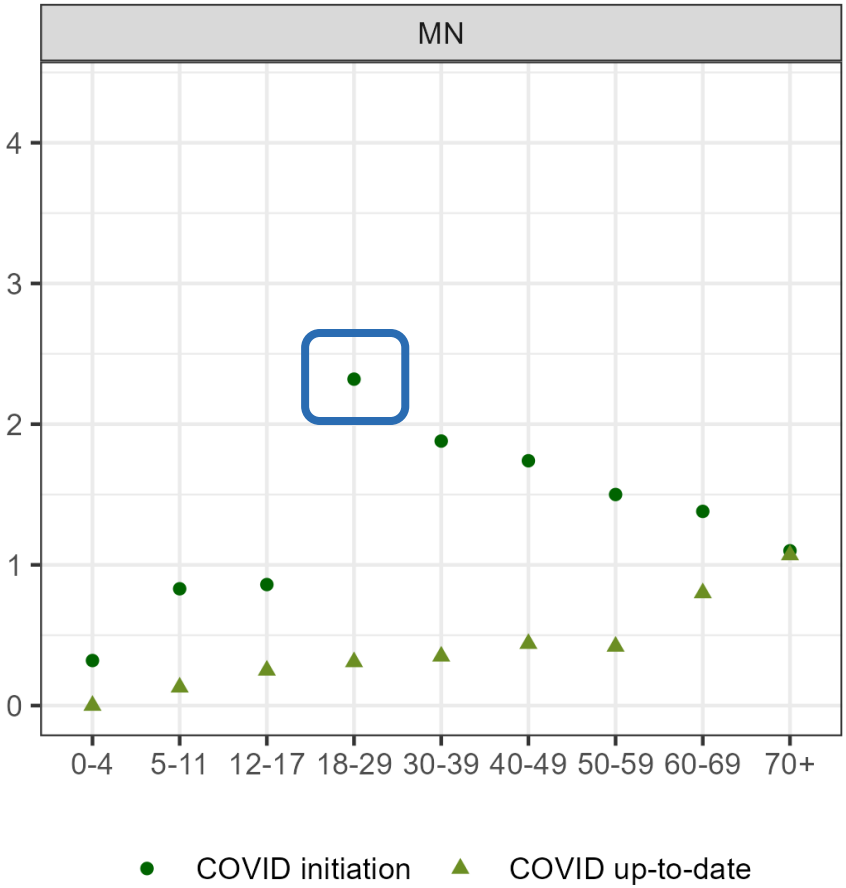
Seasonal flu

# % UTD/Initiation Increase: All



COVID

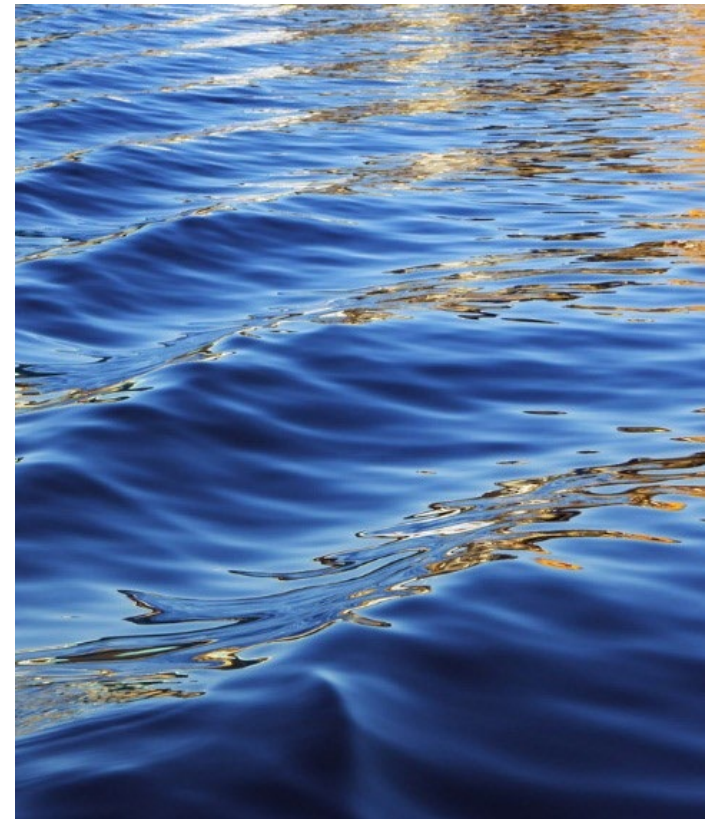
# % UTD/Initiation Increase by Age: All



COVID



# Takeaways



# Even a **small** amount of data can make a **big** difference in the right place

- Data exchange really impacted 4313314 coverage → This drives program decisions
- If high-risk groups live near the border, data exchange is worth the effort



# Mobile populations can benefit from data exchange

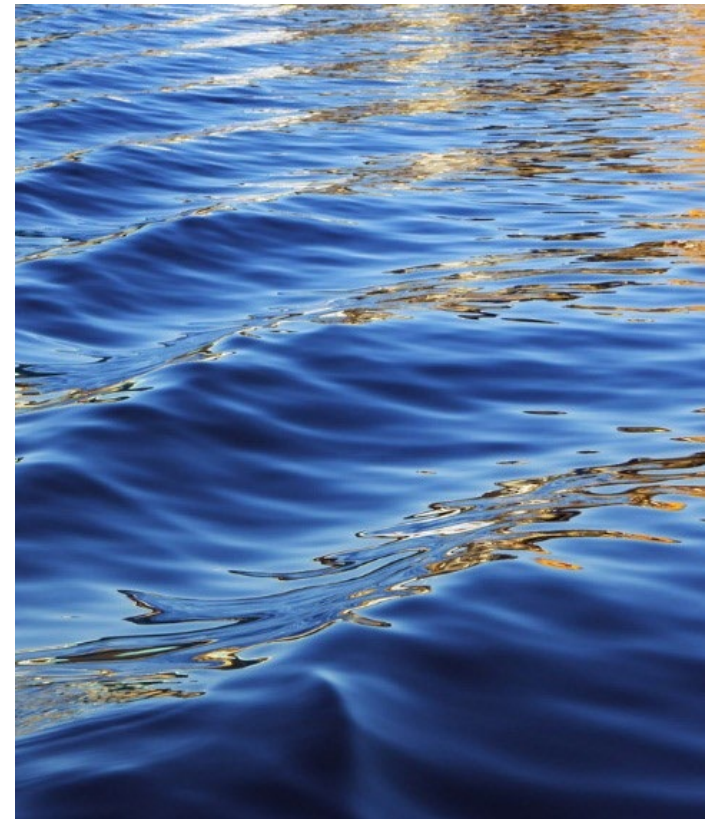
- Frequent state border crossing for work/school/healthcare can impact where data comes from
- IIS-to-IIS data exchange may impact: Migrant workers, snowbirds, college students

# Race/ethnicity is **complex**

- Need better capture → Too much “unknown” and missing data made assessment difficult
- Need to disaggregated race & ethnicity categories → “Other” may hide multiracial identities



# Limitations



Data exchange only helps with **one** of these problems!

Out-of-state care

Incomplete reporting

*Total vaccinated*  

---

*Eligible population*

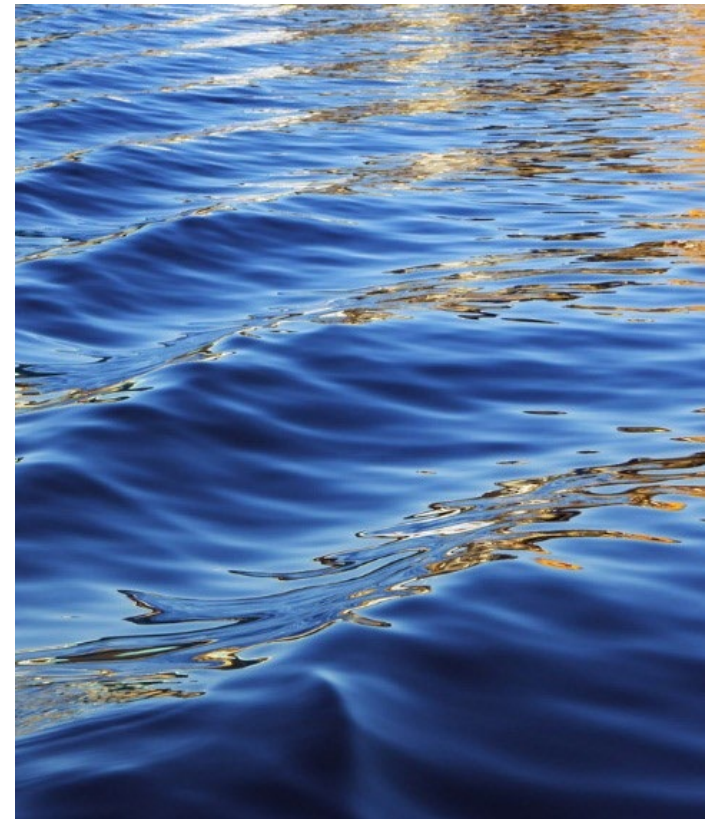
Denominator inflation

Missing demographic data

- Shared code base directly measured **coverage gains**  
→ Ignores baseline coverage level
- Only used **current address**  
→ Older findings less accurate



Next steps



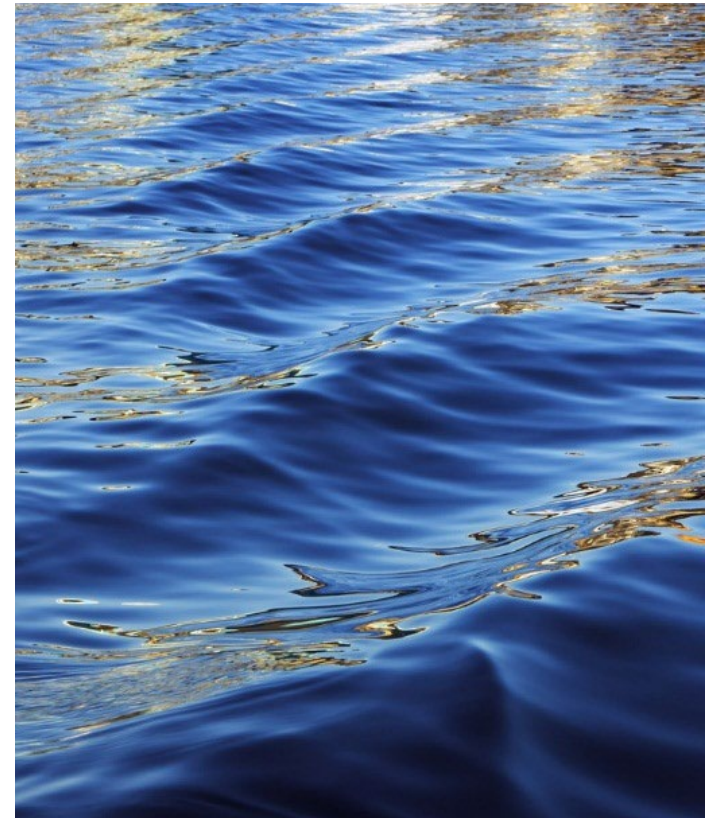
# Ongoing Analysis & Future Directions

- **MIIC, MCIR, and WIR** complete the analysis
- **MIIC**-specific: DX with AZ and FL (“snowbirds”)
- Watch out for:
  - IZ Gateway may work differently
  - Race/ethnicity categories differ across IIS
  - Consider how addresses are update

# Thank You!

Hannah Forsythe (MI)  
Sydney Kuramoto (MN)

Ryan Malosh (MI)  
Sukhesh Sudan (MI)  
Miriam Muscoplat (MN)



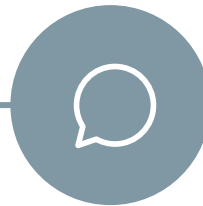
# Question & Answer



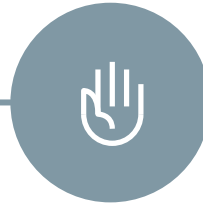
## How do I ask a question?



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.



# Power BI User Group Meeting

- **The Vaccine Equity Initiative-Data Dashboard**
  - Arielle Coq, Massachusetts
- Tuesday, June 27, at 12:00 p.m. (ET)
- Interested? Email [info@immregistries.org](mailto:info@immregistries.org).





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 **July 24, 2023**