



**AIRA**  
AMERICAN IMMUNIZATION  
REGISTRY ASSOCIATION

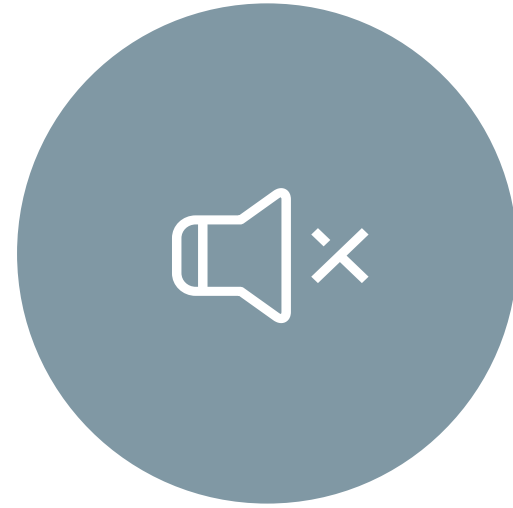
# Vaccine Credentialing Solutions - Part 1: Programmatic Aspects

Discovery Session  
May 10, 2021  
4 PM EST

# AIRA Discovery Session



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

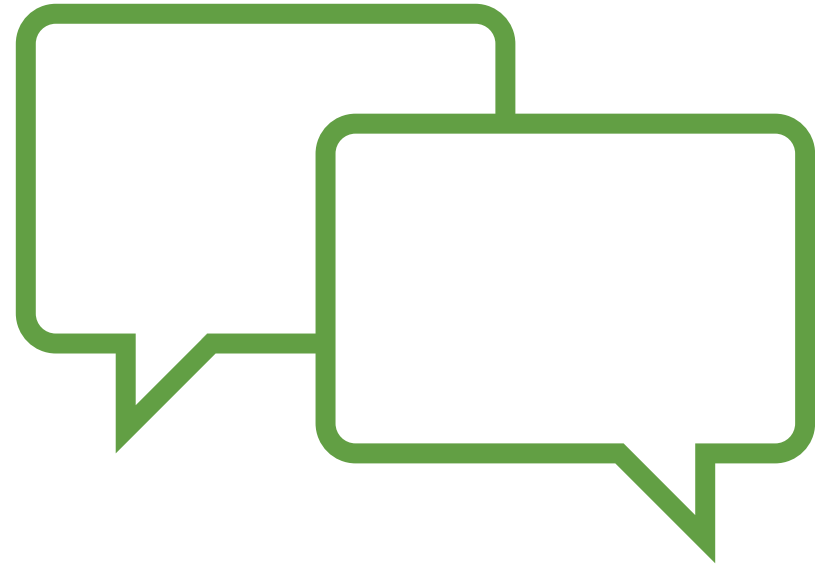


All phone lines  
are muted



# Technical Support

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



# Today's Speakers

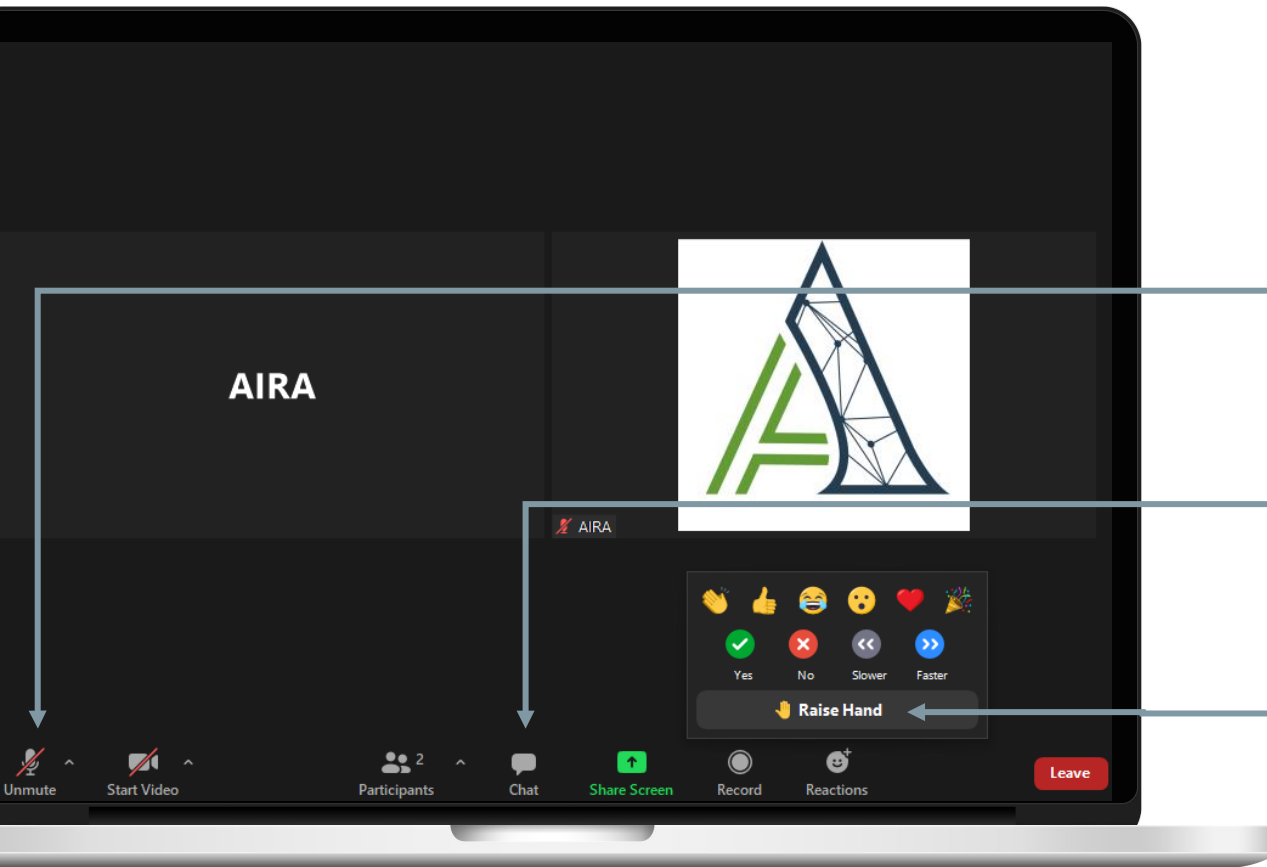
- Mary Beth Kurilo
- Tiffany Dent & Sarah McKee
- Quan Le
- Dave McCormick



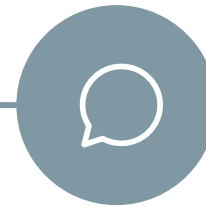
# Questions

## How do I ask a question?

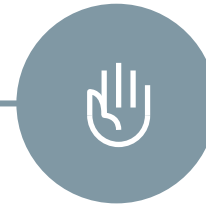
There will be time allotted for Q&A following each of the updates.



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.



# Mary Beth Kurilo

American Immunization Registry Association (AIRA)





**AIRA**  
AMERICAN IMMUNIZATION  
REGISTRY ASSOCIATION

# Introduction to Vaccine Credentials Considerations for IIS

Monday, May 10, 2021

4:00pm ET

# Goals for Today

- Provide high-level context about concepts and definitions around vaccine credentialing from the point of view of the IIS community
- Suggest resources for further exploration/research
- Hear from participants about critical questions





# The Evolution (?) of Vaccine Records

VACCINE	Date Given MO/DAY/YR	DOCTOR OR CLINIC	DATE NEXT DUE
1	AUG 25 1988	State of Hawaii, PHNS	
2	10-24-88	JOSEPHINE COUNTY HEALTH DEPT.	
3	10-24-88	JOSEPHINE COUNTY HEALTH DEPT.	
4	1-11-93	JOSEPHINE COUNTY HEALTH DEPT.	
5			
DPT	AUG 25 1988	State of Hawaii, PHNS	
1	10-24-88	R. F. FINE MD/MS	
2	10-24-88	R. F. FINE MD/MS	
3	10-24-88	JOSEPHINE COUNTY HEALTH DEPT.	
4	1-11-93	JOSEPHINE COUNTY HEALTH DEPT.	
5			
6	3-17-97	Clervia Leo Codes	
MEASLES			
RUBELLA	10-24-88	JOSEPHINE COUNTY HEALTH DEPT.	
MUMPS			
Hemophilus	2-26-90	JOSEPHINE COUNTY HEALTH DEPT.	
OTHER			
T.B. - true test done 6/29/89. Neg			
VACCINE REACTIONS AND OTHER NOTES:			
EXEMPTION-VACCINE:	PROVIDER:	DATE:	

## COVID-19 Vaccination Record Card

Please keep this record card, which includes medical information about the vaccines you have received.  
Por favor, guarde esta tarjeta de registro, que incluye informacion médica sobre las vacunas que ha recibido.



Last Name \_\_\_\_\_ First Name \_\_\_\_\_ MI \_\_\_\_\_

Date of Birth \_\_\_\_\_ Patient number (medical record or NS record number) \_\_\_\_\_

Vaccine	Product Name/Manufacturer Lot Number	Date	Healthcare Professional or Clinic Site
1 <sup>st</sup> Dose COVID-19	.....	mm / dd / yy	
2 <sup>nd</sup> Dose COVID-19	.....	mm / dd / yy	
Other	.....	mm / dd / yy	
Other	.....	mm / dd / yy	

## Present Health Card



HPV Vaccine  
Not due until May 4, 2021  
Previously done: 11/4/2020  
[Learn more](#)

Meningitis ACWY Vaccine  
Not due until October 28, 2022  
[Learn more](#)

Tdap / DTaP / Tetanus Immunization  
Not due until October 28, 2022  
Previously done: 12/15/2015, 2/8/2013, 5/18/2012, ...  
[Learn more](#)

Hepatitis B Vaccine  
Completed on May 18, 2012  
Previously done: 5/18/2012, 1/9/2012, 10/28/2011  
[Learn more](#)

Hepatitis A Vaccine  
Completed on May 10, 2013  
Previously done: 5/10/2013, 11/9/2012  
[Learn more](#)

IPV Vaccine  
Completed on December 15, 2015  
Previously done: 12/15/2015, 5/18/2012, 3/15/2012, ...  
[Learn more](#)

MMR Vaccine  
Completed on December 15, 2015  
Previously done: 12/15/2015, 11/9/2012  
[Learn more](#)



# Growing Focus Across Private Industry

Initiative	Technical Approach	Standard Vs Solution	Lead Organization
Smart Vaccination Certificate	Interoperable digital Credentials based on open standards	Standards	
CommonPass and CommonHealth	Open credential standard and Quick Response (QR) code	Solution based on open standards	
IATA Travel Pass	Using Vaccine Credentials standard and QR Code	Solution with Trusted Partners	
COVID-19 Credentials Initiative (CCI)	Privacy-preserving verifiable credential	Standard and Solution with trusted Partners	
ICC AOKpass	Platform and mobile application using blockchain technology	Solution with trusted partners	
Skyflow for Healthcare	Proprietary Standard	Solution with trusted partners	
VeriFLY	Proprietary Standard	Solution for COVID-19 implementation and risk management	
CoronaPass	Proprietary Standard		
Vaccination Credential Initiative (VCI)	Open standards based on FHIR and W3C Verifiable Credentials standard	Open Standard	

Initiative	Technical Approach	Standard Vs Solution	Lead Organization
IBM Digital Health Pass	Blockchain-based platform	Open Standards based Solution	International Business Machines Corporation (IBM)
MIT SafePaths Vaccination Cards	Augment existing infrastructure to support end to end privacy and encryption	Standards and Solution for both App and non-App	MIT
Boost-19 for Vaccination and Covid-19 EN App	Exposure Notification using Google Apple Exposure Notification	Solution based on open Standard	PathCheck Foundation
Vaccine Diary Protocol	Cryptographic protocols for vaccine eligibility, dose coordination, and reporting side effects	Open Standard	Trusted Pandemic Technologies (MIT and Brown University)
Good Health Pass	Developing Trust Framework	Trust Framework	MasterCard
Proofing Citizens' COVID-19 Vaccination	Proprietary Standard	Solution for digital Identity	1Kosmos BlockID (Private Company)
CANImmunize App	Not known	Solution	Canadian Health System
Consensus Information Passport	Based on W3C Verifiable Credentials Standard	Solution for digital immunization passport	Consensus (private company)





# Working Definitions in the IIS Community

- **Consumer Access:** The process of offering individuals direct access to their own records and, in some cases, their family members' records



# Working Definitions in the IIS Community

- **Consumer Access:** The process of offering individuals direct access to their own records and, in some cases, their family members' records

- **Vaccine Credentials:**
- **Vaccine Certificates:**
- **Vaccine Passports:**



A paper or electronic record of:  
1) Immunizations received  
2) Immunization status



# Working Definitions in the IIS Community

- **Consumer Access:** The process of offering individuals direct access to their own records and, in some cases, their family members' records
  - **Vaccine Credentials:**
  - **Vaccine Certificates:**
  - **Vaccine Passport:**
- } A paper or electronic record of:  
1) Immunizations received  
2) Immunization status
- **Digital Credentials:** A paper or **electronic** record of immunizations received that is transmissible/shareable electronically (similar example: boarding pass)





# Why is Moving to “Digital” Important?

---

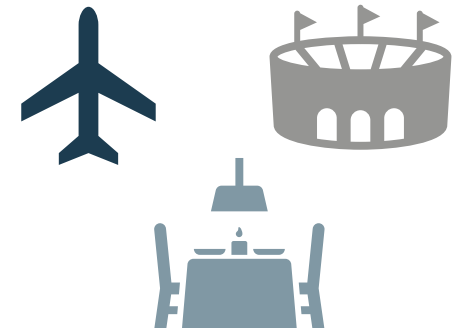
- More shareable/interoperable (e.g., QR codes)
- More secure/private
- Easier to save (and find when needed)
- Easier to ensure they are being issued and presented by the entity meant to issue and present them
  
- Less vulnerable to counterfeiting
- Less susceptible to modification, fraud



# Roles in the Credentialing Process, Per the SMART Health Cards Framework



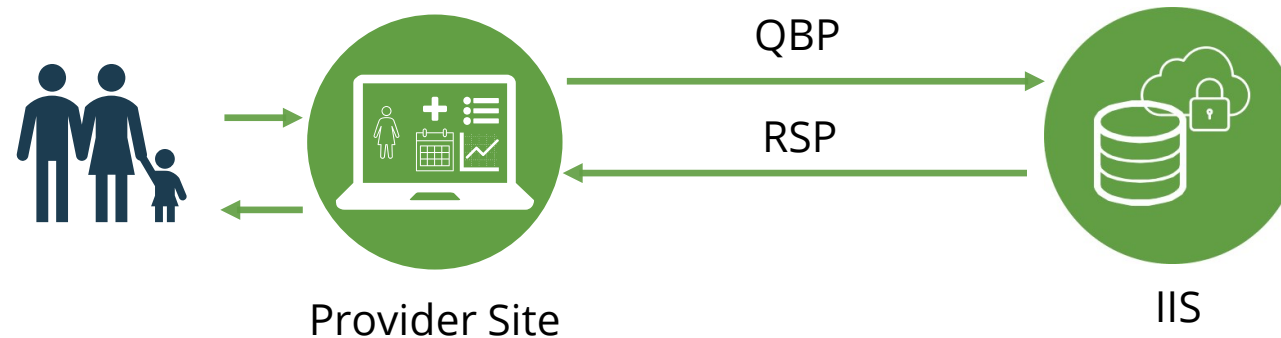
*(An IIS may also use a "Proxy issuer" to support issuing credentials)*





# Important Role of Authentication

- Historically, IIS exchanged data with provider sites, who were able to authenticate the identity of their patients needing records



- For many IIS, consumer access/vaccine credentials change the role of IIS, and bring up questions of who does the authentication and how
- Many broader efforts focused on global digital identity



# The Importance of Health Equity When Considering Vaccine Credentials

Can **all our constituents** access through:

- Broad availability (urban/rural, high/low socioeconomic status)?
- Accessible technology (paper AND digital)?
- Multiple languages?
- Culturally relevant presentation?

Does everyone have equal access to vaccination itself?

How complete is our underlying data that we use to answer health equity questions?



# Values Emerging Across IIS

- **Equity** is critically important – IIS can support equitable access, and can use data to answer health equity questions
- Investments to address consumer needs should be **sustainable**
- Solutions should eventually consider **all vaccinations**, not just COVID-19
  - Consumers may be motivated by COVID (e.g., replacing white card)
    - Another white card → original provider
    - A full immunization record → IIS can supply that
- IIS data should be **securely managed**, and **broadly available**



# Selected Resources\* for Further Exploration

Vaccine Credentialing Initiative (VCI): <https://vci.org/>

Smart Health Card Framework: <https://smarthealth.cards/>

COVID-19 Credentials Initiative (CCI): <https://www.lfph.io/cci/>

Good Health Pass Collaborative: <https://www.goodhealthpass.org/>

World Health Organization (WHO) Smart Vaccination Certificate:  
<https://www.who.int/groups/smart-vaccination-certificate-working-group>

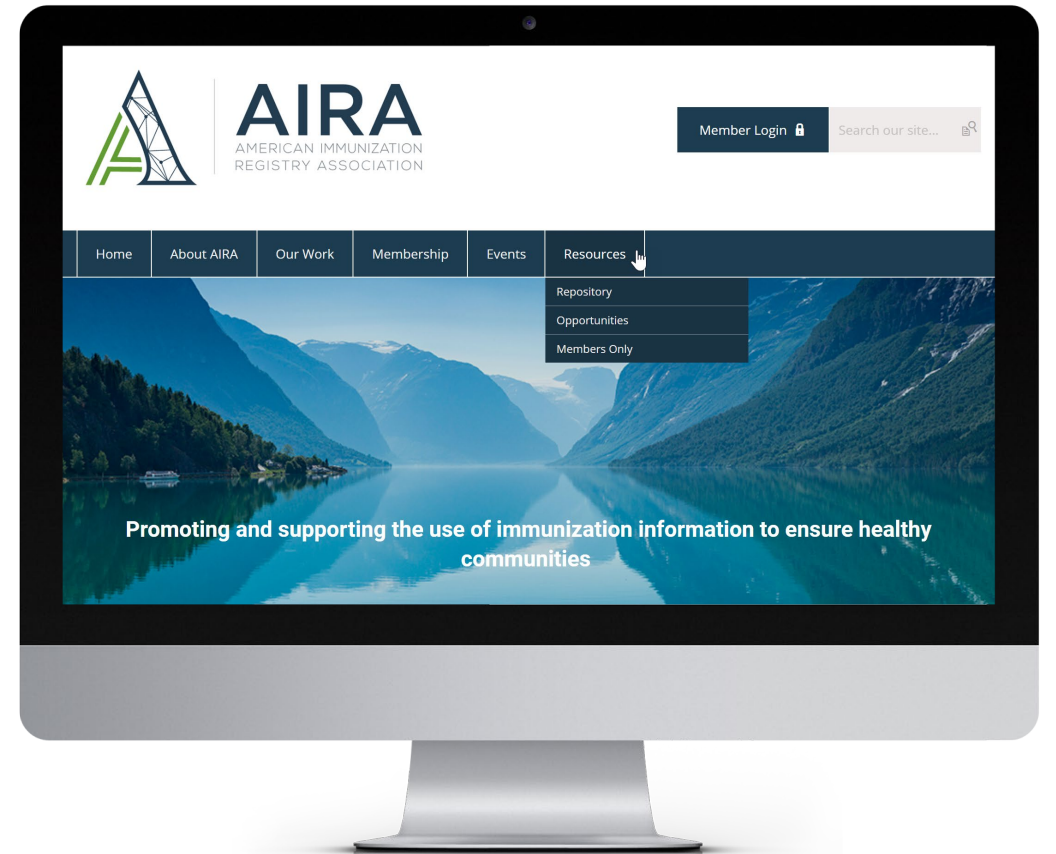
HLN.com Blogs on Vaccine Credential Efforts: <https://www.hln.com/vaccine-credentials-do-not-replace-full-vaccination-histories/>

*\* This list is not comprehensive. For a list of initiatives, see the Federal Health IT Coordinating Council slides, March 2, 2021, [https://www.washingtonpost.com/context/federal-officials-review-vaccine-passport-plans/d40fb0be-fb34-48c9-be39-43d10bb15feb/?itid=lk\\_inline\\_manual\\_18](https://www.washingtonpost.com/context/federal-officials-review-vaccine-passport-plans/d40fb0be-fb34-48c9-be39-43d10bb15feb/?itid=lk_inline_manual_18)*



# Thank You!

Mary Beth Kurilo, MPH, MSW  
[mbkurilo@immregistries.org](mailto:mbkurilo@immregistries.org)



[www.immregistries.org](http://www.immregistries.org)



# Tiffany Dent & Sarah McKee

STChealth

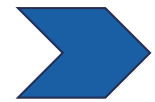




**The STChealth  
Consumer Access  
Network**

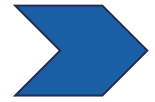
# STChealth KNOWS Immunization Exchange

## IIS Vendor 25+ Years



Supporting 13  
States/Territories

## Delivering Consumer Access for 10 Years



Connecting over 1 Million  
Consumers (10+ States) to  
Official Immunization  
Record

## Provider Access Network Vendor for 8+ Years



Reporting to 58 IIS,  
Connecting Over 56,000  
Vaccine Provider and  
Pharmacy locations



# COVID Immunization Access

1

Emerging market of credentials and health apps providing safe access to office buildings, entertainment, travel, sporting venues, etc.

2

Consumers can and will use applications and digital certificates, as available, to gain access to travel and events

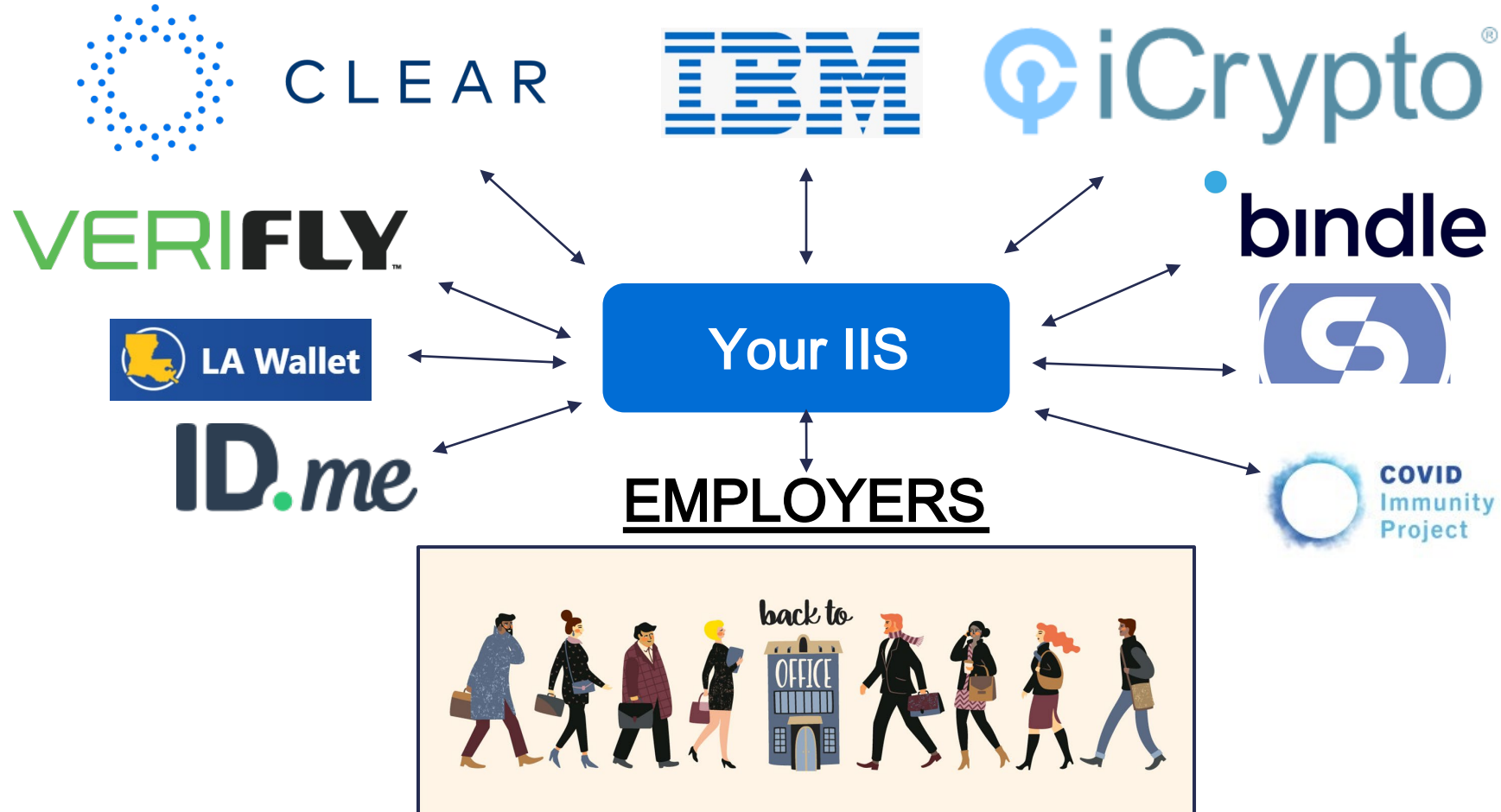
3

States receiving influx in requests to share vaccine data and the need for IISs to allow consumer access is paramount

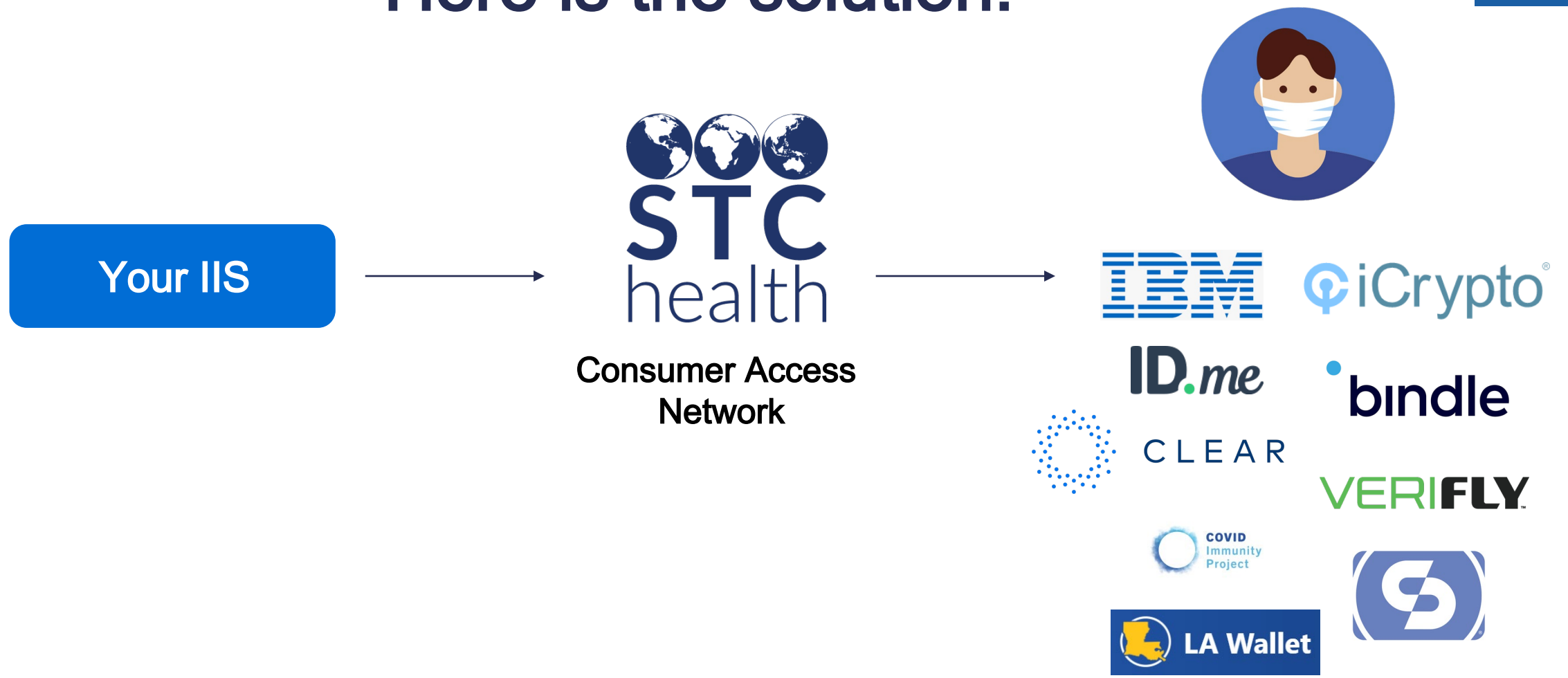
4

STChealth is a single connection to standardize and share only the essential immunization data with consumer applications

# This is the ask of the IIS Community:



# Here is the solution:



# Consumer Access Network *Mission*

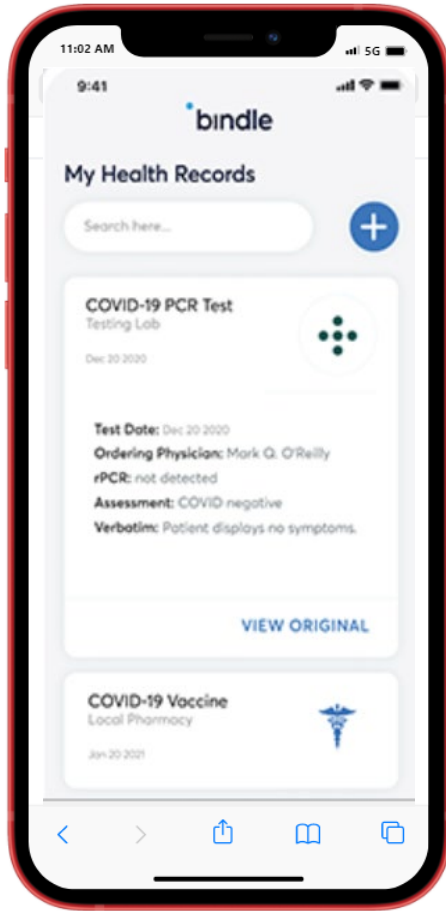
Safely and Securely Help the Individual to Share  
Their Verified Vaccine Information



# Workflow

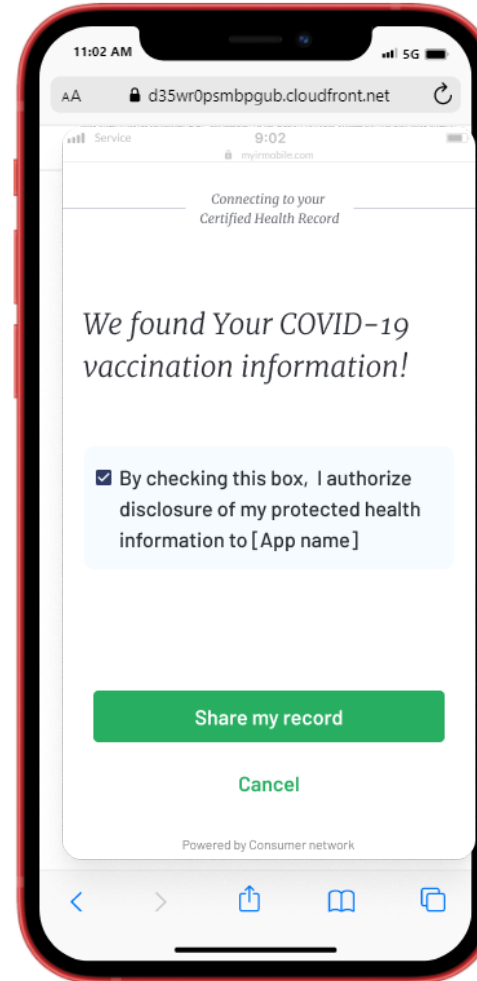


# Matching and Consent



Based on the same matching algorithm that has been in place for years in MyIR.

- Secure
- Safe
- Efficient
- Improved



# COVID-19 Data

## Subset Of Data

- Up-to-date
- Not-up-to-date
- Vaccine Manufacturer  
Date Administered

\* Based on CDSI forecaster

## Rules Apply in 3rd Party Sites

\*Based on the  
subset of Covid-19  
Data

# What's the Difference?

Consumer Access Network Only

STChealth Information Network

Consumer Portal (i.e MyIR)



Digital Vaccine Record "DVR" aggregator



Leverages CDSi Forecasting



Secure access, ability to track consent, and share verified record



Consumer Portal for full immunization record & decision support



Access to State-customized immunization forms



Consolidate records for individual and dependents



# FAQ

<p><b>Q:</b> Can I use MyIR to provide electronic access to consumers and their family’s immunization information?</p>	<p><b>A:</b> Yes, MyIR allows for consumers and their family members to see their full immunization record and any state custom certificates authorized.</p>
<p><b>Q:</b> My State already has a Consumer Portal, can I still use STC’s Consumer Access Network to enable our consumers to share their records with other entities?</p>	<p><b>A:</b> Yes, the Consumer Access Network allows your consumers to consent to share their verified vaccine record. Consumers can still leverage your existing Portal for their full immunization record.</p>
<p><b>Q:</b> Can I use both MyIR and the Consumer Access Network and is there a benefit?</p>	<p><b>A:</b> Yes, utilizing both platforms allows for a 1-time authentication pathway</p>

# STC Allows The State To Remain In Control

- Visibility through State Dashboards
- Insight of all consumer record requests
- Ability to audit consents as needed
- Authorize new technology partners to connect by directing to STC
- Infrastructure integrity - STC helps monitor traffic load and response times of IIS. (STChealth hosts and maintains IIS systems throughout the country and understands the critical importance of these systems)

# STC Consumer Access Network

## *Implementation Overview*

1. **Initiate** | Reach out to STC Client Partner group [clientpartners@stchome.com](mailto:clientpartners@stchome.com)
2. **Agree** | Execute MOU “Memorandum of Understanding” w/STC
3. **Connect** | STC configures connection to IIS using the same format we use to report vaccines today (no technical changes needed) *TIME FRAME: approx 48hrs*
4. **Test** | STC performs Connection, Query, and Match Testing *TIME FRAME: approx 48hrs*
5. **Go Live!** | Get back to business!

# Contact Us



411 S. 1<sup>st</sup> St., Phoenix, AZ 85004



[www.stchealth.com](http://www.stchealth.com)



480-745-8500



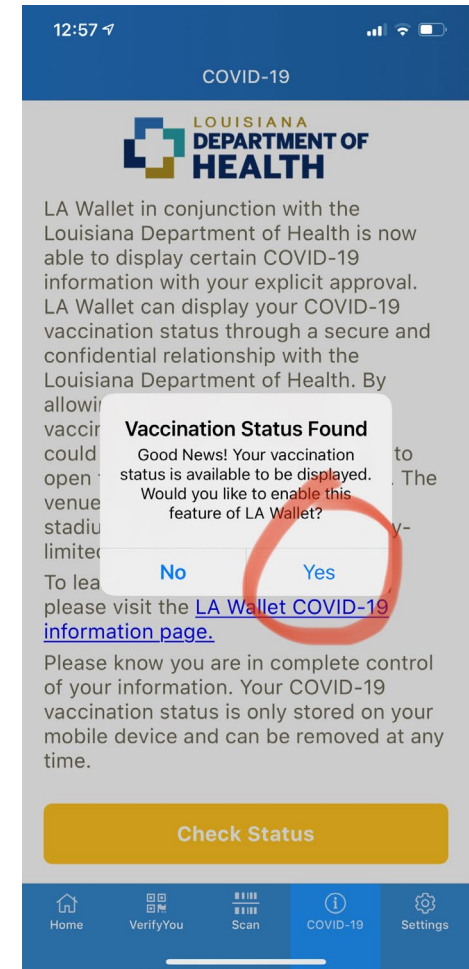
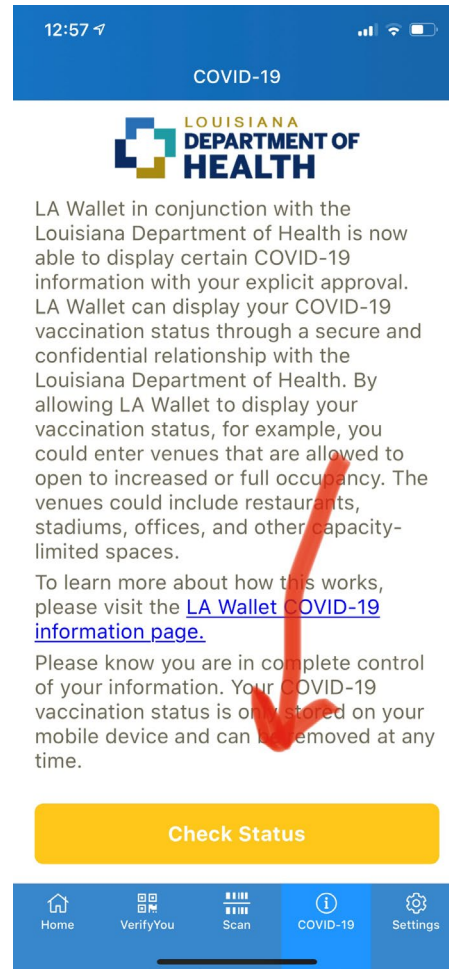
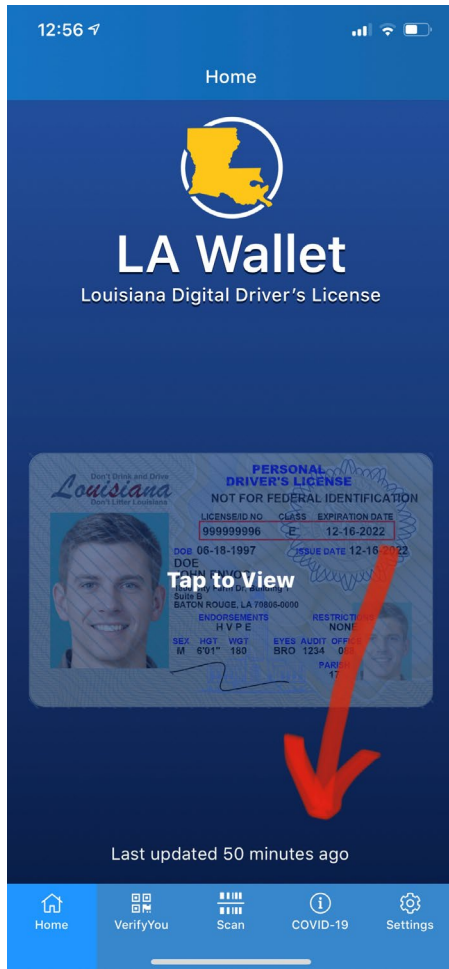
[clientpartners@stchome.com](mailto:clientpartners@stchome.com)



Quan Le

Louisiana





Success!



Dave McCormick

Indiana





# My Vax Indiana

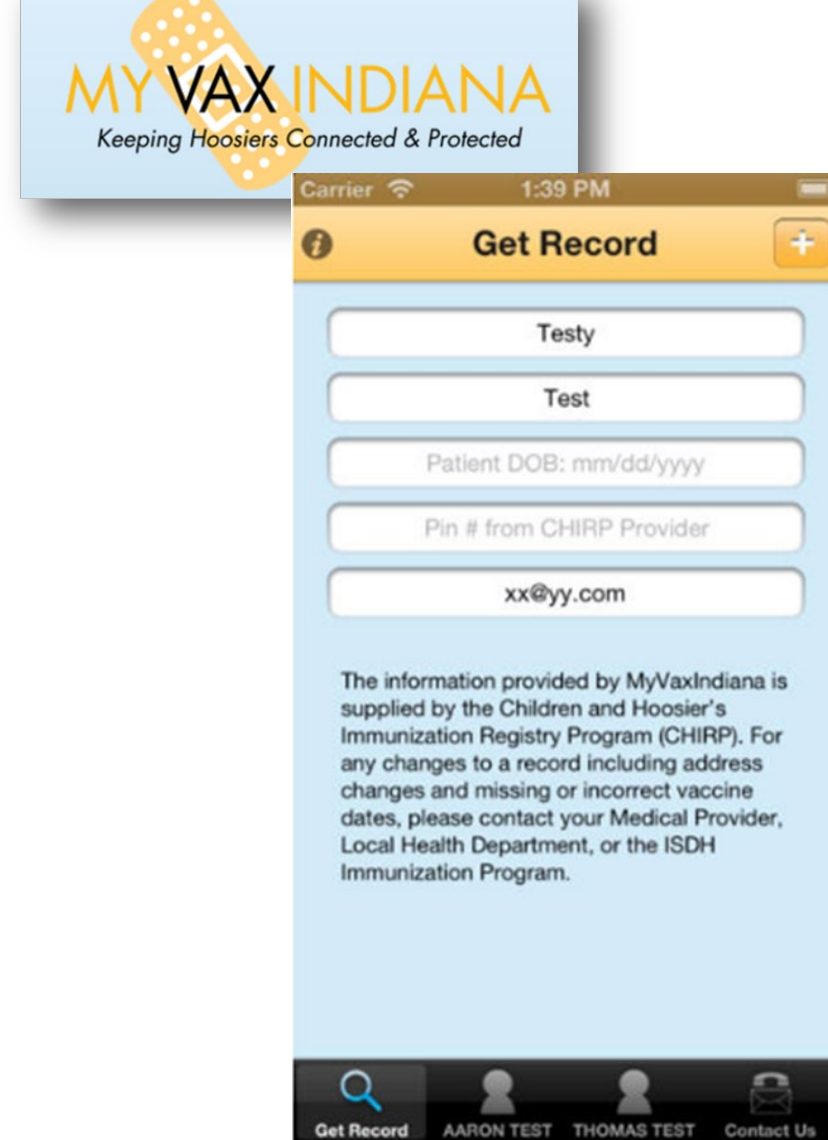
MyVaxIndiana



# CHIRP & MyVaxIndiana.IN.gov

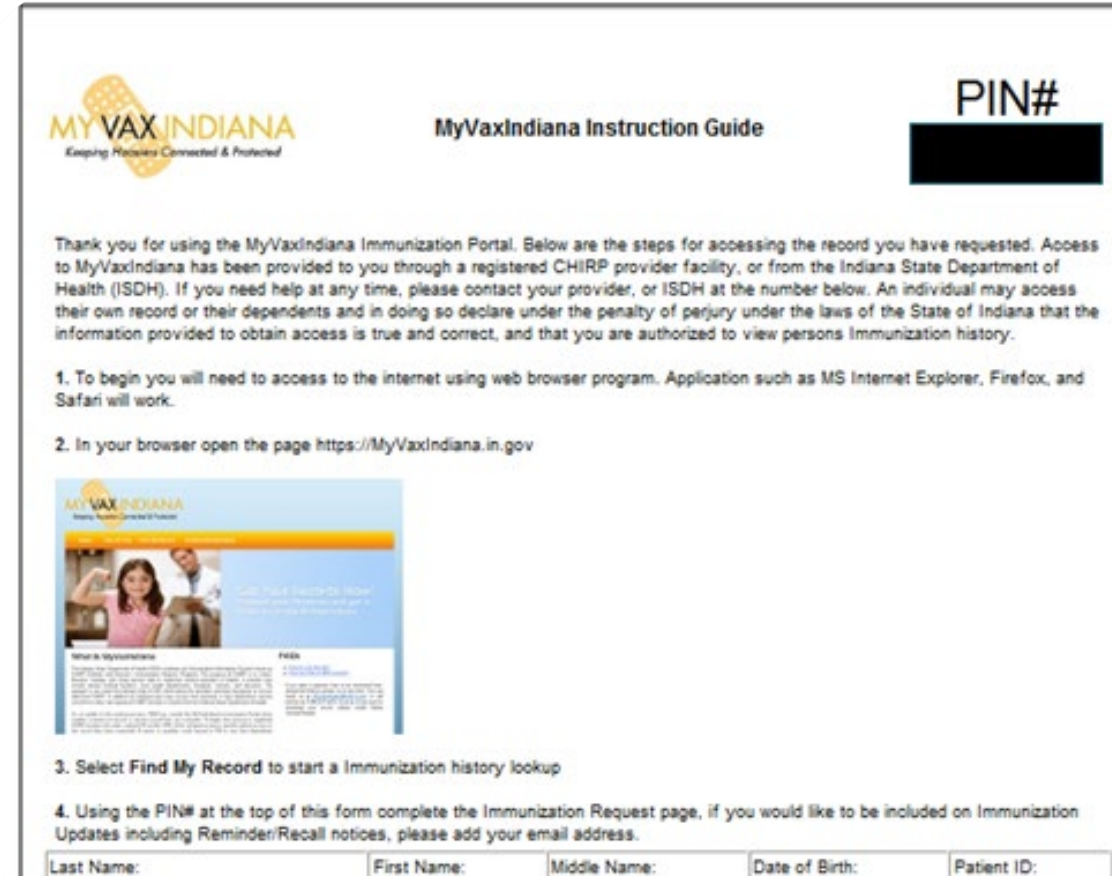
## Patient Portal to vaccination records:

- Accessible 24/7 from any computer
- Opt-in program
- Must be set up in CHIRP by physician office
- [www.MyVaxIndiana.in.gov](http://www.MyVaxIndiana.in.gov)
- Have patient load the app and try it before they leave the office.



# How to Access MyVaxIndiana

1. Provide PIN to parent/guardian
2. Visit the MyVax website:  
[www.myvaxindiana.in.gov/](http://www.myvaxindiana.in.gov/)
3. Click on “Find My Record”
4. Enter Information including PIN#

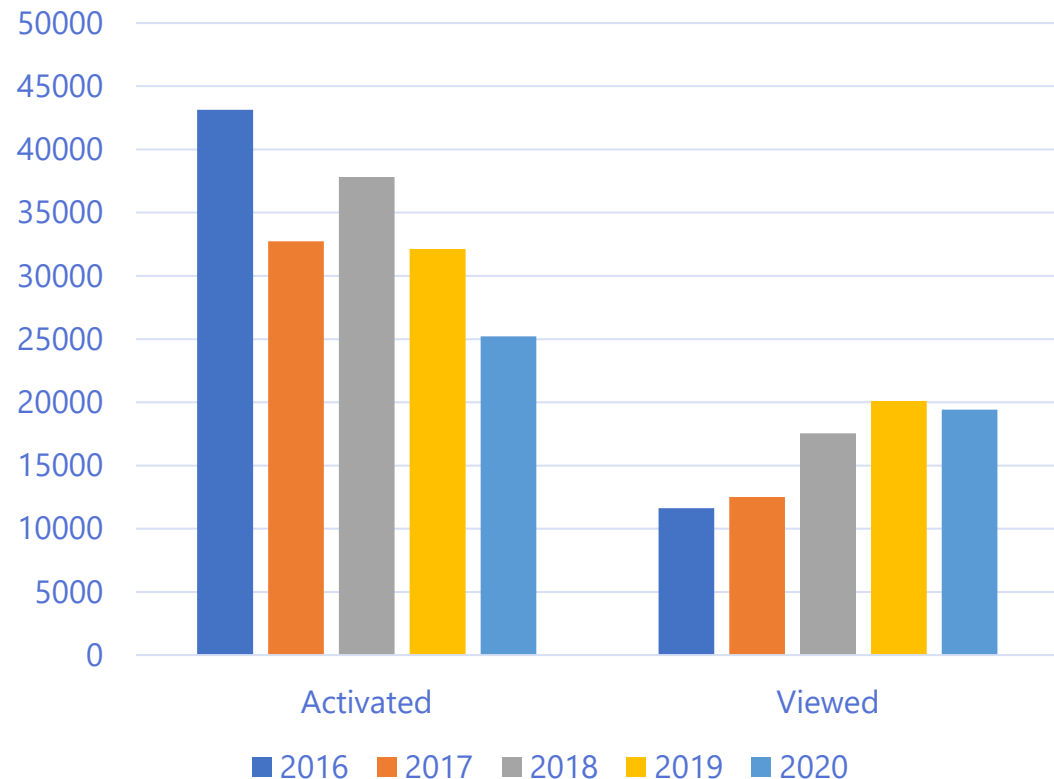


The image shows a document titled "MyVaxIndiana Instruction Guide". At the top left is the "MY VAX INDIANA" logo with the tagline "Keeping Providers Connected & Protected". At the top right, it says "PIN#" followed by a blacked-out box. The main text of the guide reads: "Thank you for using the MyVaxIndiana Immunization Portal. Below are the steps for accessing the record you have requested. Access to MyVaxIndiana has been provided to you through a registered CHIRP provider facility, or from the Indiana State Department of Health (ISDH). If you need help at any time, please contact your provider, or ISDH at the number below. An individual may access their own record or their dependents and in doing so declare under the penalty of perjury under the laws of the State of Indiana that the information provided to obtain access is true and correct, and that you are authorized to view persons Immunization history." The guide lists four steps: 1. To begin you will need to access to the internet using web browser program. Application such as MS Internet Explorer, Firefox, and Safari will work. 2. In your browser open the page <https://MyVaxIndiana.in.gov>. Below this step is a small screenshot of the MyVaxIndiana website interface, showing a search bar and a "Find My Record" button. 3. Select **Find My Record** to start a Immunization history lookup. 4. Using the PIN# at the top of this form complete the Immunization Request page, if you would like to be included on Immunization Updates including Reminder/Recall notices, please add your email address. At the bottom of the page, there are input fields for "Last Name:", "First Name:", "Middle Name:", "Date of Birth:", and "Patient ID:".

# Outcomes

- Established in 2012
- 272,561 Hoosier records have been activated
- 113,172 Hoosiers records have been accessed
- Strong relationship between provider and patient
- Lifespan registry

Activated vs. Viewed



For additional information, please refer to our [quick reference guide](#)



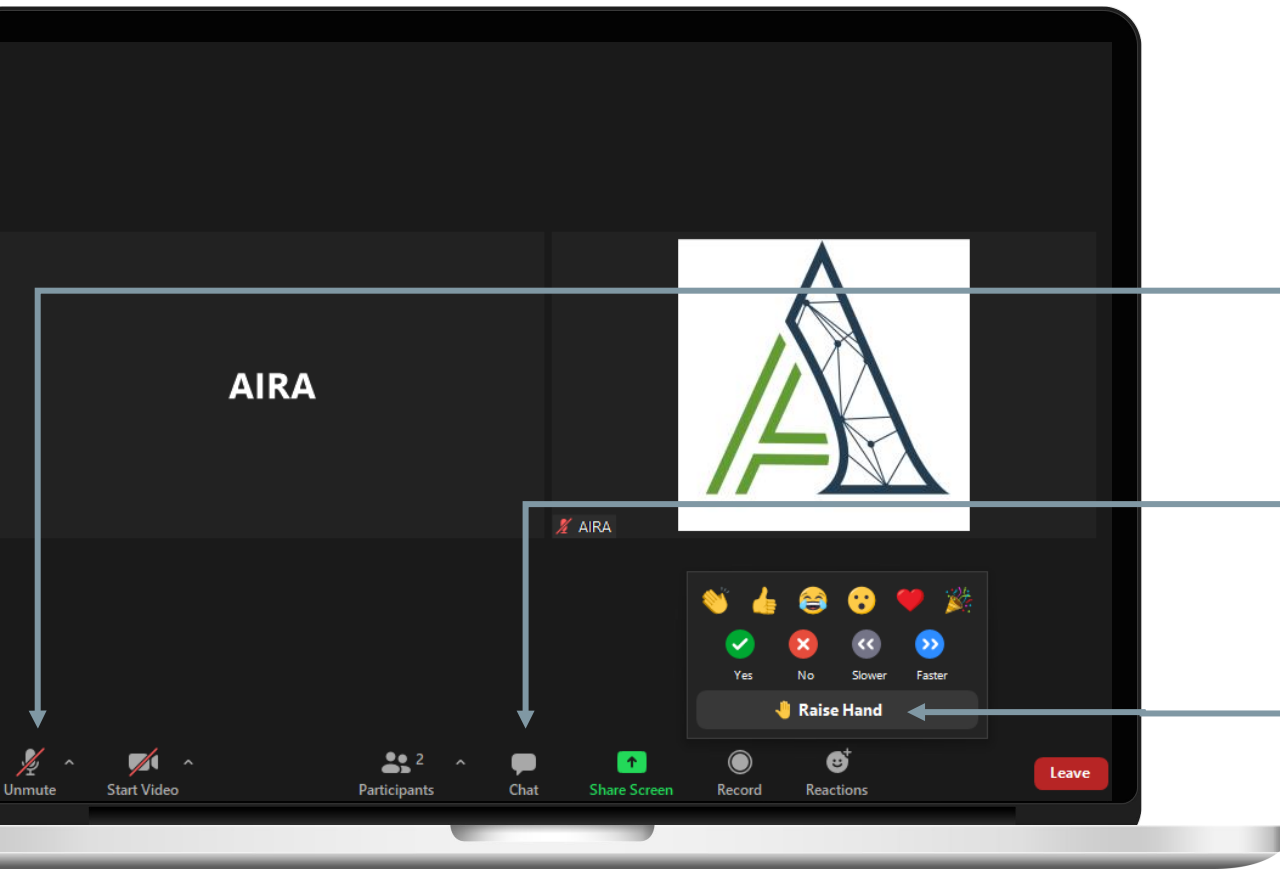
And Now A Few Questions For  
All of You!



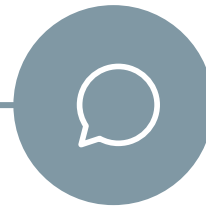
# Question & Answer

## How do I ask a question?

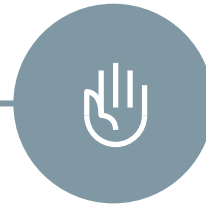
There will be time allotted for Q&A following each of the updates.



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.



# What are your most significant questions around vaccine credentials (i.e., what keeps you up at night)?

Who is going to issue them?

availability of credentials

confidentiality

Too many independent initiatives

People who do not have smartphones or are fluent in smartphone.

Where to even start with this process. Seems like a daunting project to take on right now.

patient matching

security authentication

Will states cooperate with other states



# What are your most significant questions around vaccine credentials (i.e., what keeps you up at night)?

What verification will be done to ensure that fraudulent results aren't shown?

How do we make sure that a company doesn't "mine" the data; that only individuals that verify identity are queried?

Reaching this individuals that do not want vaccines

Big Brother

Data integrity assurance

Cross jurisdiction; authentication and data quality and load on public health authority.

Do systems support standards-based vaccination credentials and will they work without requiring a patient to own a smartphone?

The amount of work it will take us to implement.

need a standard to follow...

# What are your most significant questions around vaccine credentials (i.e., what keeps you up at night)?

Legislative preemption

Backload from paper

Too many siloed efforts

Non-tech savvy access

Authentication

Data quality

Can this information be tampered with?

security, accuracy of demographics in records

Data security

# What are your most significant questions around vaccine credentials (i.e., what keeps you up at night)?

data integrity assurance

Equity!

Getting confirmed immunizations into vaccination credential issuers

Not creating have's and have-not's

How much data cleaning/validation is needed

data cleaning efforts

what the requirements will be/who will issue requirements is everything we're putting in place now change based on federal rules

Workflow when patients aren't found. Wrong matches

Patient matching.

# What are your most significant questions around vaccine credentials (i.e., what keeps you up at night)?

Where do you even start!

education

Support standards instead of proprietary products or solutions.

help drive standardization

These webinars are great

Sponsor standards-based initiatives to create a consistent single specification

Which will be nationally or internationally recognized

Create a simple summary/comparison of the various initiatives.

Support the SMART Health Cards standard.



# What are your most significant questions around vaccine credentials (i.e., what keeps you up at night)?

Work with CDC on a nationwide vision and strategy for consumer access

business model cost and benefits

Fact sheet to educate legislators on diff between credentials and passports

# How can AIRA help organize these efforts?

Continued meetings with it as a focus

Common platform

Help create standards

National standards around credentialing.

Blockchain hahahaha

National standards around credentialing

Offer more events like this.

Perhaps a workgroup specific to Consumer Access

continue to drive info share, bring different speakers.

# How can AIRA help organize these efforts?

Have a demonstrations with other vendors

Integrated application. Information sharing

national credentialling, more meetings like this,

workgroups

National Standards!

National and international acceptance

National standards- more conversations!

Train on FHIR if that's going to be used for credentialing


speakers who address common issues with implementation

# How can AIRA help organize these efforts?

Provide recommendations on patient-reported immunizations







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

A brief evaluation survey will be sent out  
following this webinar

The next Discovery Session  
will be on May 24, 2021