HIE 3.0 – The Future of Interoperability

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Connecting Michigan Conference
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Questions to Ponder for HIE 3.0

- What challenges are still holding us back from leveraging technology and interoperability opportunities in healthcare delivery? In public health?

- What additional data sets can be included in HIE to support improving individual and community health and wellness?

- How are HIEs adjusting and changing as the healthcare industry continues to evolve, both pre and post pandemic?

- What does the future of interoperability look like post COVID-19?

Health Information Exchange

Behavioral Health Providers

Medical Providers

Hospitals

Labs
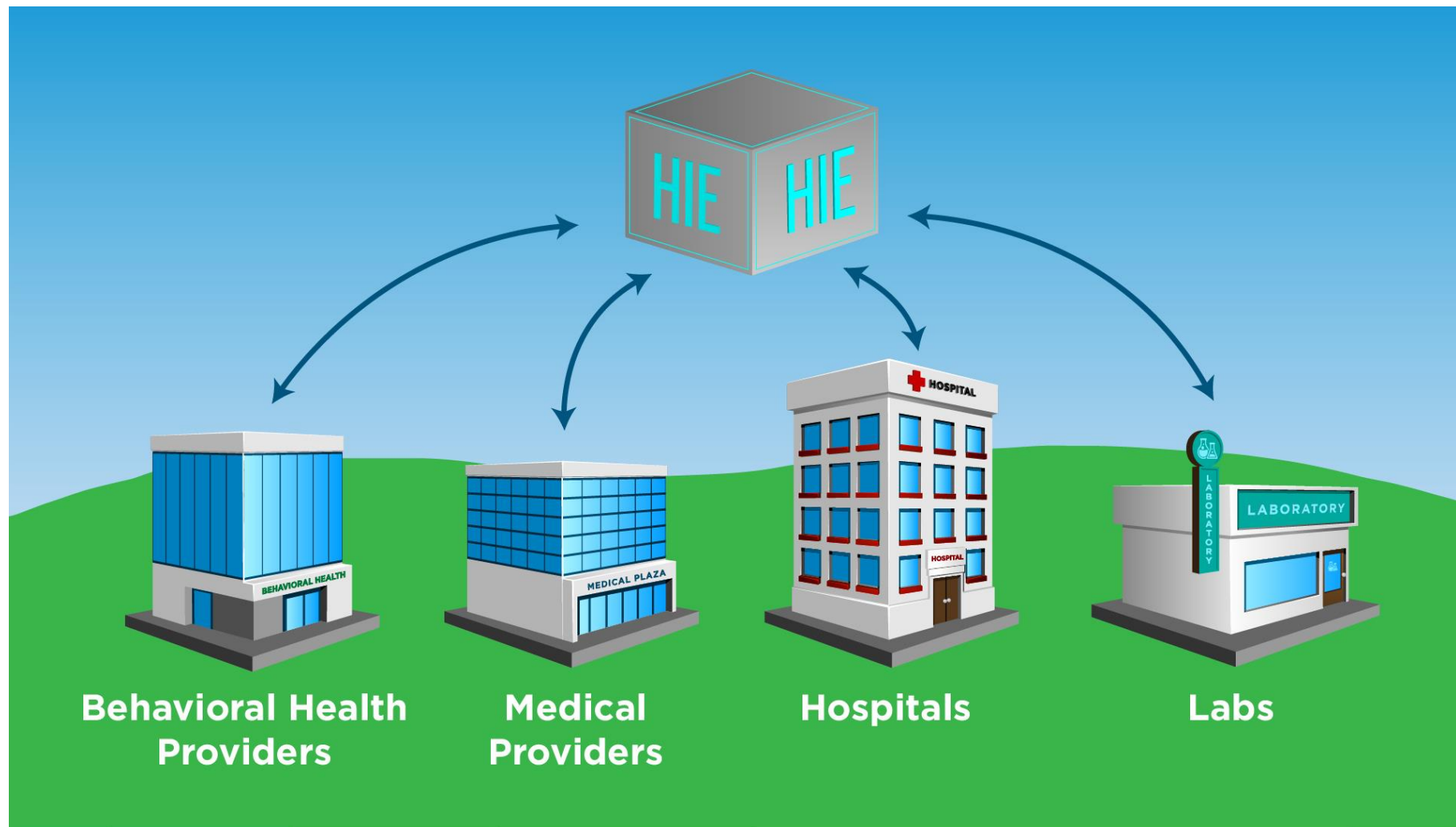
What We Are & What We Do

- A **public-private partnership** that improves health and wellness by advancing the secure and private sharing of electronic health information.

- A **Data Trustee** for the Arizona healthcare community.

- Manage and operate Arizona's **health information exchange** (HIE), by providing **secure access to & exchange of** patient health information for Arizona's healthcare community.

Who is Health Current?

858

HIE Participants and growing
as of 2/19/2021

Data available on **12+ million**

2,202 Active Portal Users
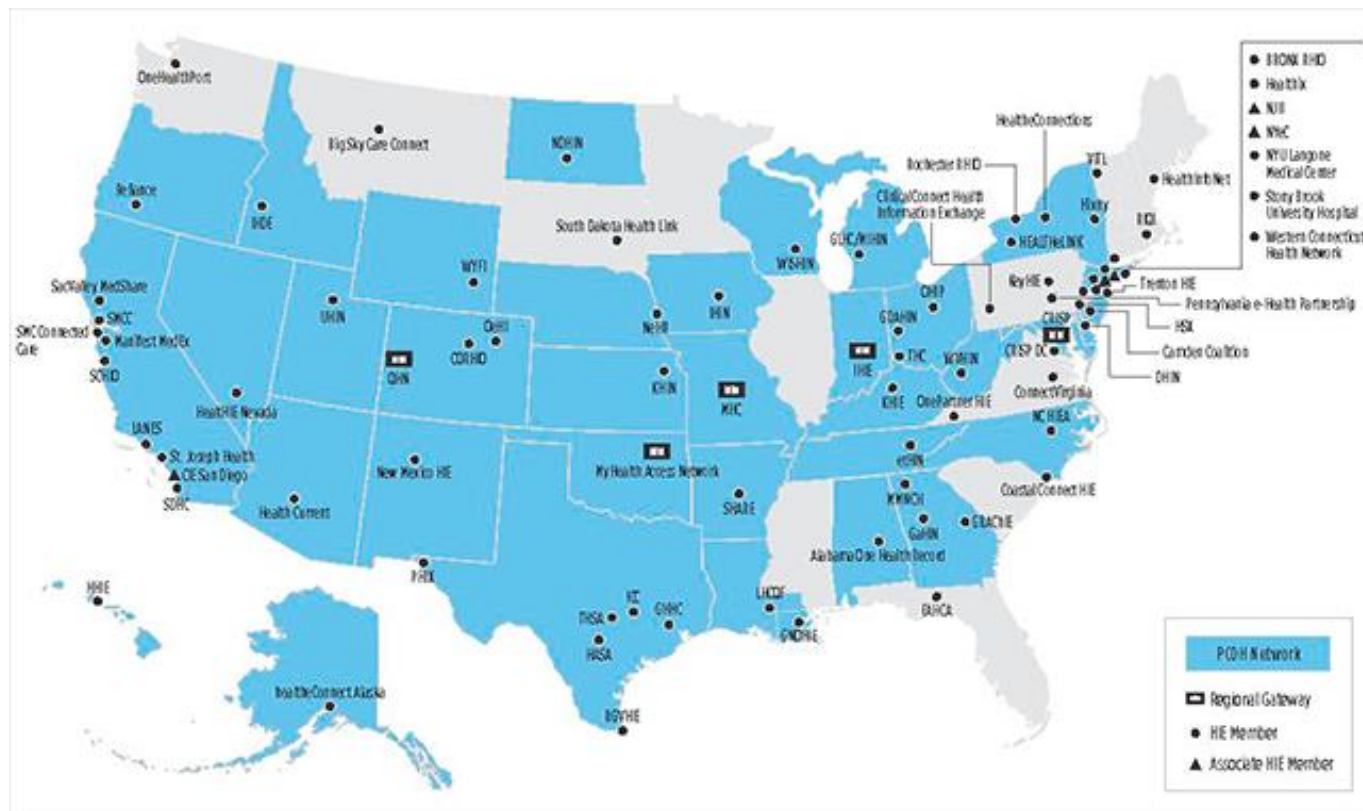
237 Data Sources

91K Patient Records accessed monthly

10+M Alerts delivered monthly

HIEs Nationwide

Providing health data on more than
90% of Americans

Evolving to HIE 3.0

1

- Increasing EHR Adoption
- HIE & Interoperability
- E-Prescribing
- Privacy & Security

Pre 2010

2

- ARRA/HITECH
- Meaningful Use
- EHR Adoption Explodes
- Population Health & Analytics

2010 to 2020

3

- Pandemic
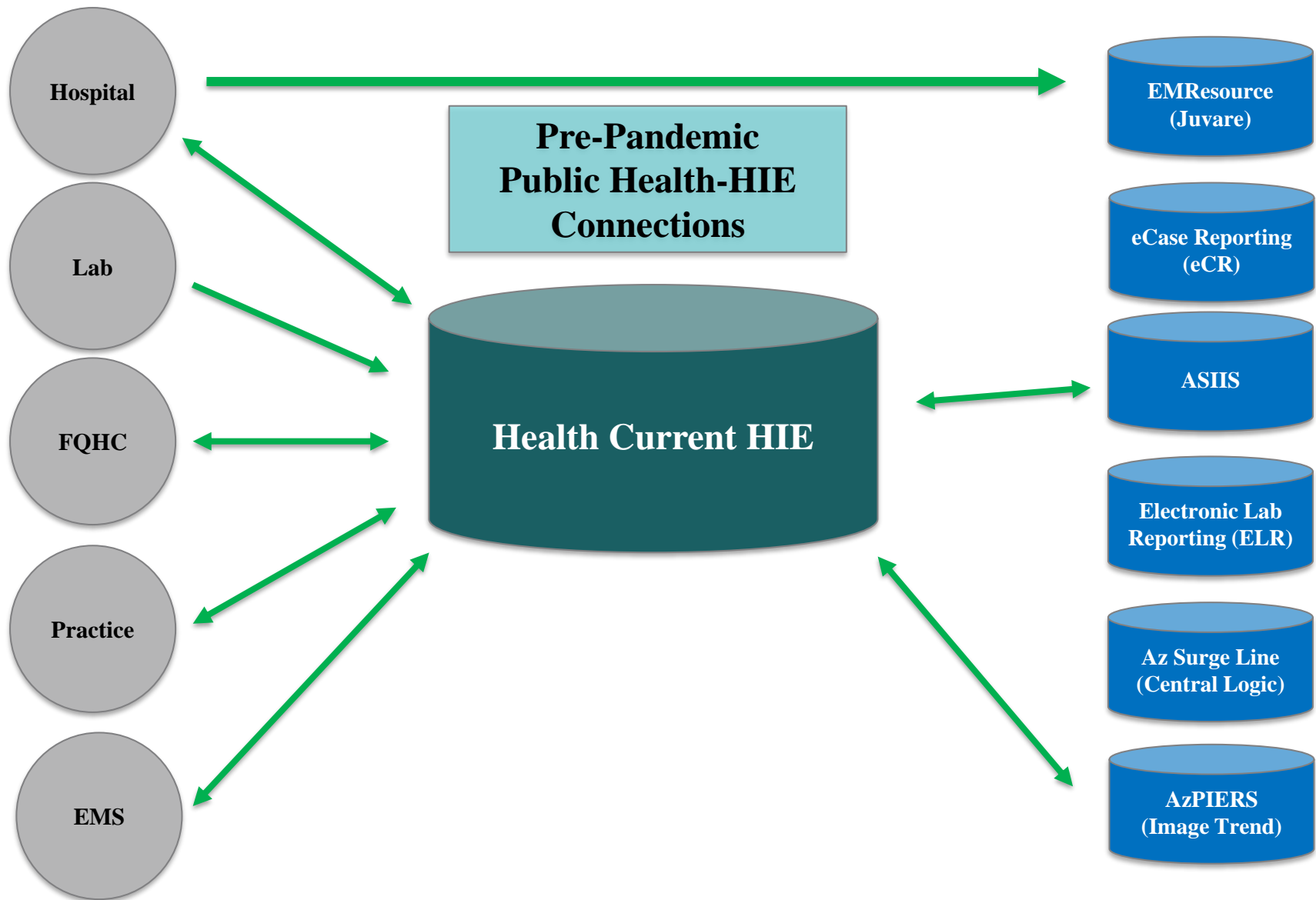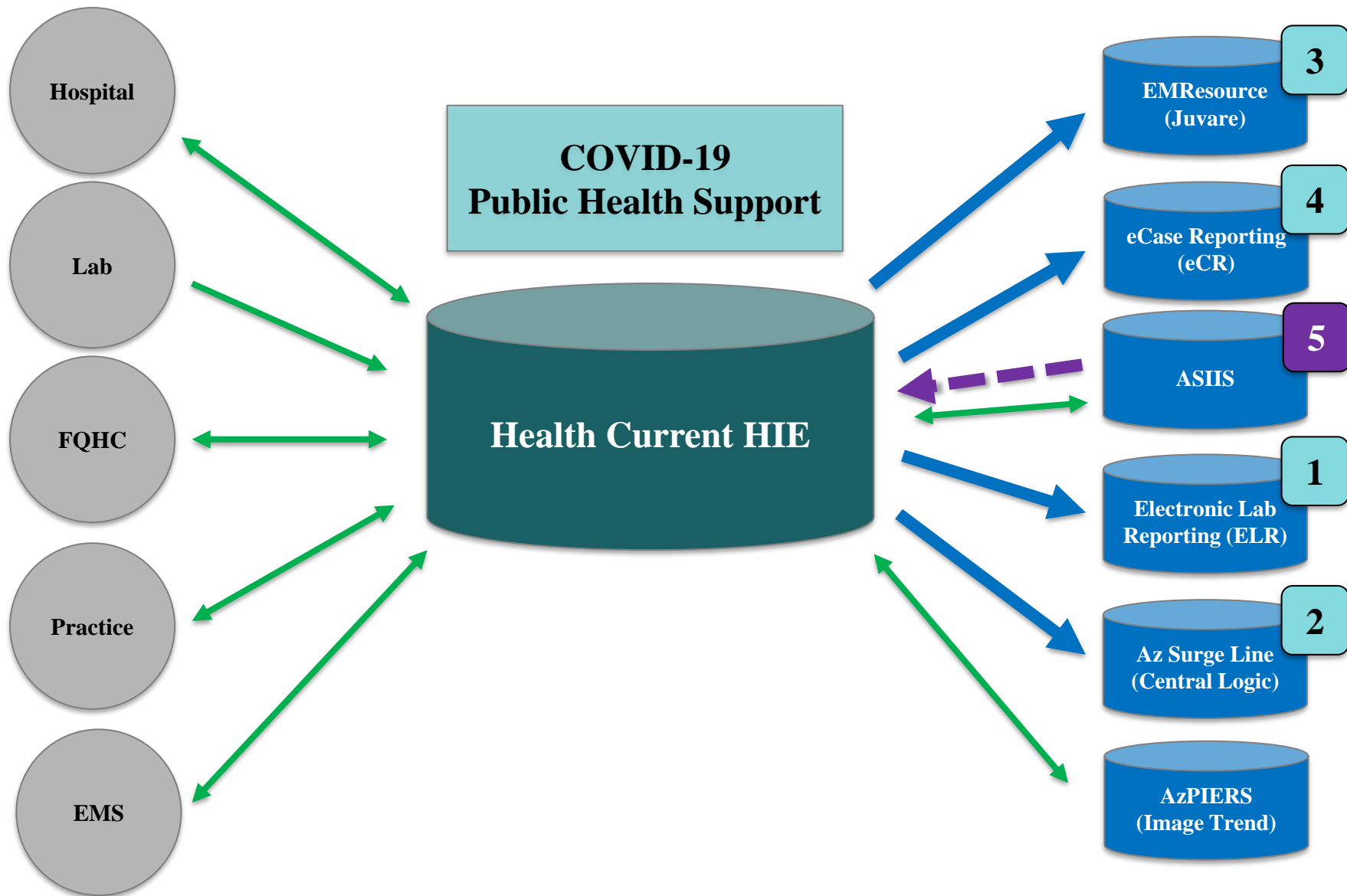- Public Health
- No Info Blocking, Patient Access & TEFCA
- HIE Regionalization
- Health Data Utilities

2020 & Beyond

Pandemic Recovery & Public Health Focus

Pre-Pandemic
Public Health-HIE
Connections

Hospital

Lab

FQHC

Practice

EMS

Health Current HIE

EMResource
(Juvare)

eCase Reporting
(eCR)

ASIIS

Electronic Lab
Reporting (ELR)

Az Surge Line
(Central Logic)

AzPIERS
(Image Trend)

Bed Visibility (System)
Version 2020.05

CentralLogic
Right Care. Right Location. Without Delay.

Global Filters

Region	Facility	Level Of Care	Clinical Group
All	All	All	All

Region	Facility	ICU	PCU	MedSurg	Obs		Peds	
		Gen	Gen	Gen	Gen	Obs	Gen	ICU
Central		3	50	54		32		
		54	170	81		17		
		9	18			23	4	
		42	57	35		49		
		25	45	61		8	16	7
		4	16	20		15		
		2	21	10		20		
				8				
		19	38			15		
		0	9			3	7	
		4	9			3		
		17	97	54		8	21	9
		33	34	47		20		
				8				
		3	31					
		12	8	6	10			
		2	15	0	0			
		9	6	0				
		18	36	39				
		28	12	25				
		10	14	28			20	4
		3	0	0				
		31	7	31				
		3		27				
		5	19					
		35	6	30				
		14	16	23				
		11	35	25				
		19	5	6				
		19	26	51				3
		4	4	24				
		23	86	9			28	
		8	3	25				
		34	41	60		5	35	19
		11	2	89				
		28		154				
		22	29	113			5	2

Multi-State Dashboard – Multi-State View

COVID-19 Aggregated Population Health Dashboard

The visualizations in this dashboard are generated from clinical data reported to contributing Health Information Exchanges (HIEs)

Visualization counts may not always equal total individuals tested due to underlying data pre-aggregated, PHI suppressed where n<5, and multiple organizations sending different data about the same identity

Testing Date Range
2/1/2020 - 9/30/2020

HIE
- ☑ (All)
- ☑ CORHIO
- ☑ CRISP
- ☑ Health Current
- ☑ IHIE
- ☑ Manifest MedEx
- ☑ NEHII

State
- ☑ (All)
- ☑ AZ
- ☑ CA
- ☑ CO
- ☑ IN
- ☑ MD
- ☑ NE

County
- ☑ (All)
- ☑ ADAMS
- ☑ ADAMS
- ☑ ALAMEDA
- ☑ ALAMOSA
- ☑ ALLEGANY
- ☑ ALLEN
- ☑ ANNE ARUNDEL
- ☑ ANTELOPE
- ☑ APACHE
- ☑ ARAPAHOE
- ☑ ARCHULETA

5,008,158
Individuals Tested
2/1/2020 - 9/30/2020

Summarized Results
an identity may have multiple results;
each identity is only counted once per result category

Not Detected	**90.09%** (4,652,363)
Detected	**7.95%** (410,670)
Pending or Unknown	**1.95%** (100,849)

© 2020 Mapbox   © OpenStreetMap

Age

Age	Count
0-4	95,337
5-9	96,356
10-14	108,694
15-19	274,519
20-24	416,246
25-29	392,345
30-34	396,656
35-39	374,065
40-44	343,839
45-49	341,876
50-54	366,822
55-59	380,367
60-64	347,083
65-69	280,684
70-74	223,958
75-79	160,413
80-84	112,655
85-89	81,122
90 +	80,071
Unknown	264

Gender

Female 55.94%   Male 40.81%

Race

	Count	% of Total
White	2,605,571	53.38%
Unknown or Not Provided	1,118,357	22.91%
Black Or African American	825,247	16.91%
Other Race	212,823	4.36%
Asian	78,232	1.60%
American Indian or Alaska Native	36,560	0.75%
Native Hawaiian or Other Pacific Islander	4,536	0.09%

Ethnicity

	Count	% of Total
Not Hispanic or Latino	3,011,249	61.69%
Unknown or Not Provided	1,483,108	30.39%
Hispanic or Latino	386,669	7.92%

Federal Regulations: Info Blocking, Patient Access & More

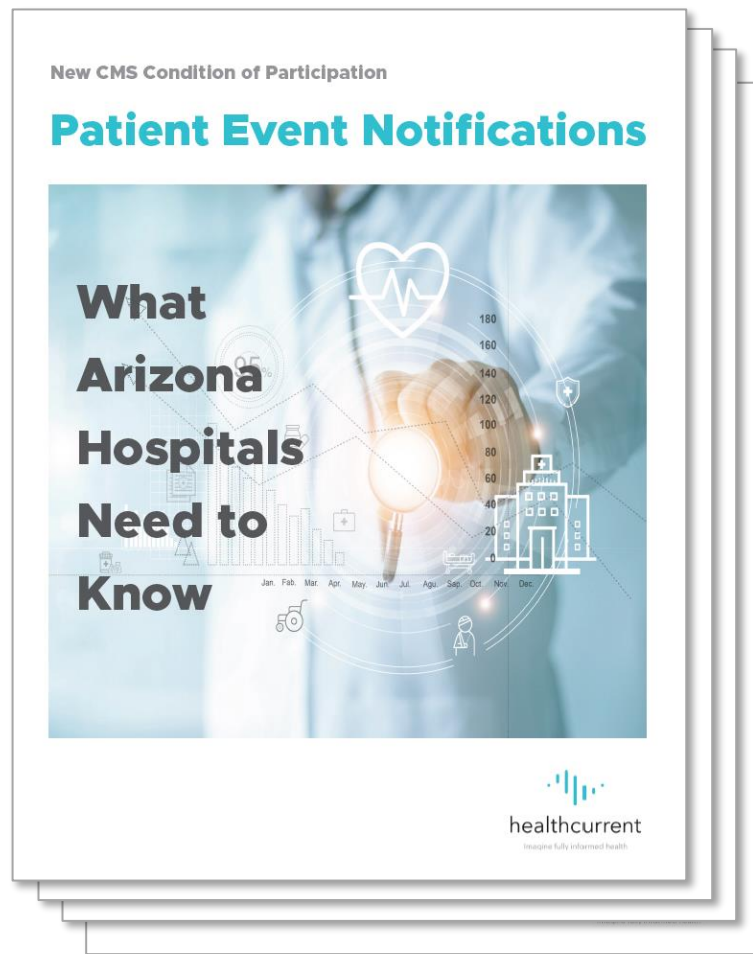# New Federal Rule: Information Blocking

New CMS Condition of Participation: Patient Event Notifications

HIEs can serve as an intermediary to support hospitals in meeting their requirements

Health Current offering new CMS CoP Compliance (C3) Support Services

White paper available at:
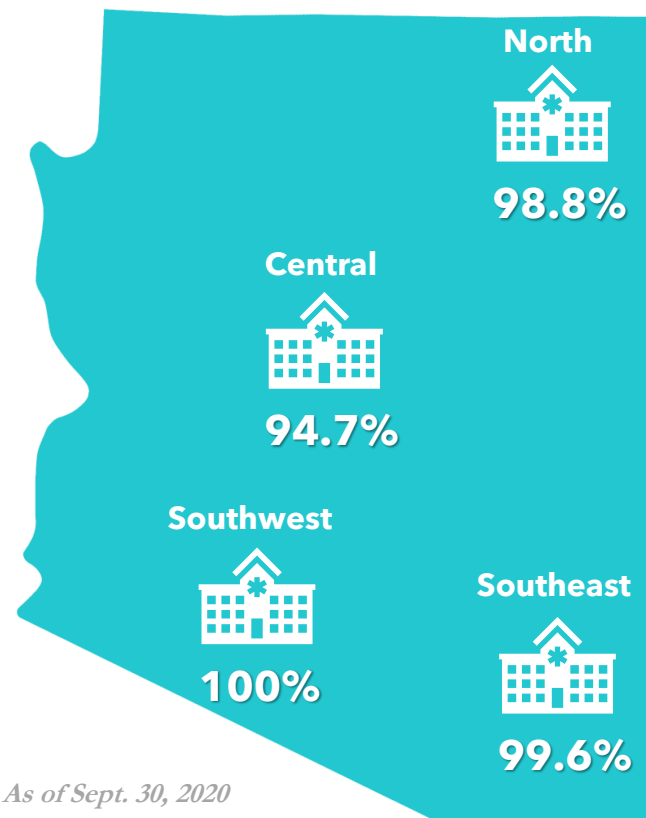
www.healthcurrent.org/cms2021

Value-Added Benefits of Using HIE to Meet CoP

Uniform approach for **hospitals** and **providers Health Current** can:

- Leverage existing connections from nearly every hospital in Arizona
    - Receiving inbound ADTs from 97% of inpatient and ED took 10 years and significant investment to develop
- Expand outreach to connect to PCPs and PACs **statewide**
    - Enable **providers to manage** the alerts they receive from hospitals
    - Participants represent over **10,000 providers** and counting

Hospitals Sending ADTs, Results & Clinical Documents

North
98.8%

Central
94.7%

Southwest
100%

Southeast
99.6%

As of Sept. 30, 2020

Trusted Exchange Framework & Common Agreement (TEFCA)

The Office of the National Coordinator for Health Information Technology

RCE

RCE provides oversight and governance for QHINs.

QHINs connect directly to each other to facilitate nationwide interoperability.

Each QHIN represents a variety of Participants that they connect together, serving a wide range of Participant Members and Individual Users.

PARTICIPANTS

PARTICIPANT MEMBERS AND INDIVIDUAL USERS

GOAL 1

Provide a single "on-ramp" to nationwide connectivity

GOAL 2

Electronic Health Information (EHI) securely follows you when and where it is needed

GOAL 3

Support nationwide scalability

Multiple National Interoperability Networks

Nationwide HIE Connectivity via Patient Centered Data Home™ (PCDH)
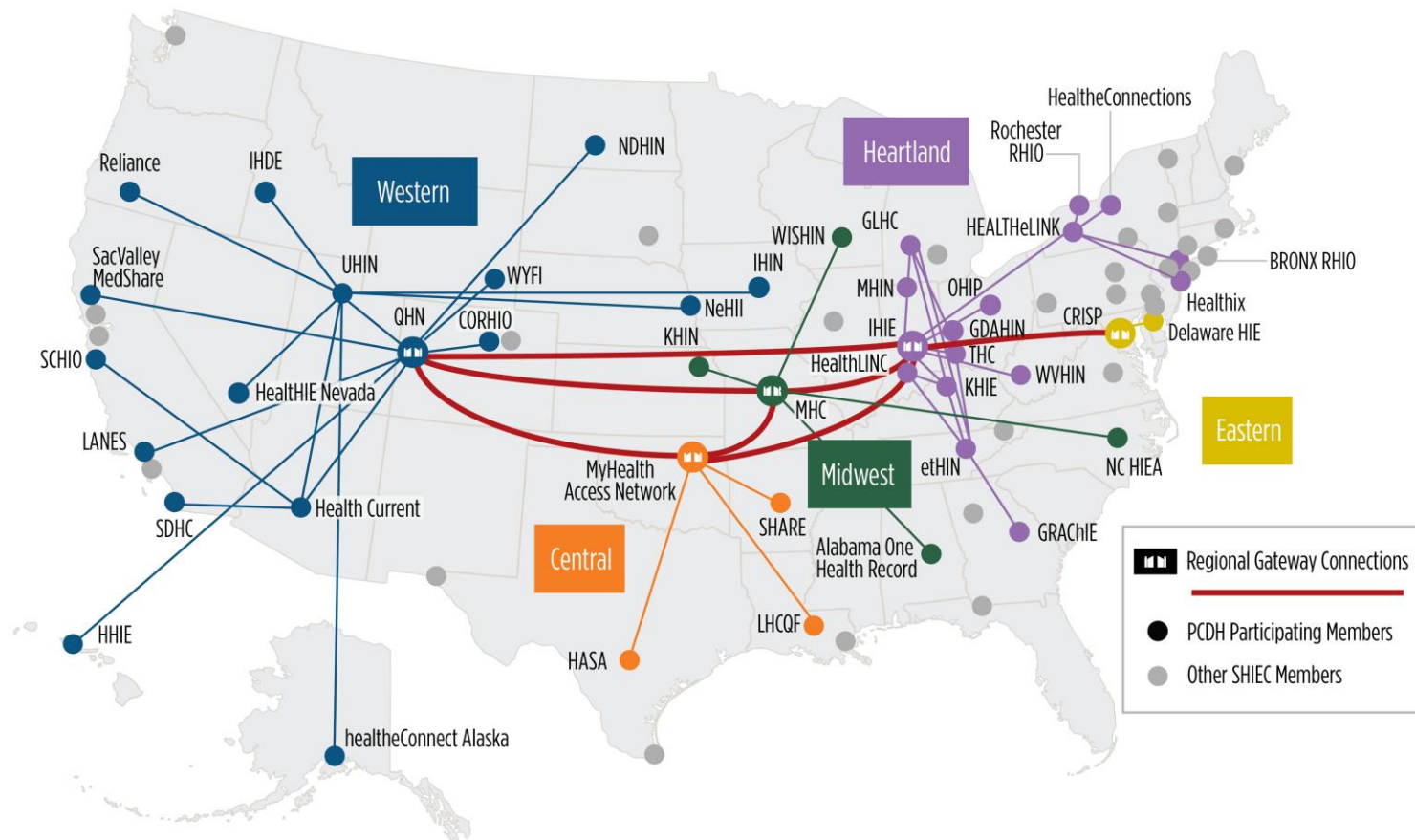
HIE Regionalization, Health Data Utilities and Beyond

HIE Regionalization Moving Forward…

https://healthcurrent.org/corhio-and-health-current-merger/

The HIE Evolution: Regionalization & Collaboration Trends

POSTED BY: INDUSTRY NEWS   JANUARY 11, 2017

Cal INDEX and Inland Empire HIE will merge to form California's largest health information exchange; former White House technology advisor named CEO

Statewide nonprofit health information exchange will include m 16 million health information records and participation from 15 provider partners

The California Integrated Data Exchange (Cal INDEX) and Inl Empire Health Information Exchange (IEHIE) announced a pl merger that will create one of the nation's most comprehensive nonprofit health informatic IEs).

2017

2 Major NY Health Information Exchanges Announce Merger

Healthix and New York Care Information Gateway (NYCIG) have joined forces to potentially become the largest HIE network in the country.

2020

Indiana Health Information Exchange   ABOUT   PRODUCTS

Indiana HIEs unify to better meet the needs of the state's healthcare community

Indianapolis, Ind., Nov. 13, 2019 – Indiana Health Information Exchange (IHIE) and Michiana Health Information Network (MHIN), two pioneering health information exchanges (HIEs) in the nation, will consolidate their services and operations to unify HIE services for the state of Indiana.

IHIE and MHIN have signed an agreement to consolidate on January 1, 2020.

"The evolution of national interoperability is driving the need for HIEs to adapt, but also creating opportunities for new HIE value propositions," said John Kansky, President and CEO of the Indiana Health Information Exchange. "To deliver this new value, HIEs   ficant investments and operate on a larger scale."

2019

Regionalization & Collaboration Accelerates in 2020 & 2021!

2020

2021

CORHIO and Health Current Join Forces and Announce Intent to Form New Regional Organization

Two national leaders in health information exchange, Health Current in Arizona and CORHIO in Colorado, announced today their intent to merge f_____ility.

Velatura Public Benefit Corporation Announces the Formation of Velatura HIE Corporation, Affiliation with Midwest Health Connection

The consolidated HIE service connects more than 1,300 healthcare organizations

GRAND RAPIDS, MICH. — Velatura Public Benefit Corporation (Velatura) today announced the formation of the Velatura HIE Corporation, a not-for-profit organization that will offer affiliation and integration opportunities to health information exchanges (HIEs) across the country. Missouri-based Midwest Health Connection (MHC), one of the largest HIEs in the

Velatura Public Benefit Corporation and KPI Ninja Partner with Wisconsin Statewide Health Information Network

11.3.2021   ♥ 1   ● 0   ◢ Announcements, MiHIN, Press Releases, Velatura

Published: 3/11/21 - FOR IMMEDIATE RELEASE March 11, 2021 For additional information, contact: Velatura: Emily Mata 517.745.8835 | emily.mata@mihin.org WISHIN: Joe Kachelski 608.268.1838 | jkachelski@wishin.org KPI Ninja: Vineeth Yeddula 402.419.0906 | vineeth@kpininja.com Velatura Public Benefit Corporation and KPI Ninja Partner with Wisconsin Statewide Health Information Network Strategic collaboration improves solutions, services and interoperability in the Midwest GRAND RAPIDS, Mich. —Wisconsin Statewide Health Information Network, Inc. (WISHIN), the state-designated health information exchange (HIE) for Wisconsin, today announced its contract with Velatura Public Benefit _____ (Velatura) and KPI Ninja. The partnership will replace WISHIN's current health information platform and expand services for its provider and payer h_____

2021

CyncHealth and Iowa Health Information Network (IHIN) Announce Partnership

JAN 5, 2021

Under the arrangement NEHII will continue all services of IHIN as IHIN remains the state designated entity for purposes of administering and governing the statewide Iowa health information network.

2021

2021

Six Health Information Exchange Organizations Across the U.S. Form New Consortium

Consortium for State and Regional Interoperability

The 501(c)(3) Consortium for State and Regional Interoperability aims to help drive individual and population health improvements across the nation through robust and innovative sharing of health information.

New Service Offerings, Data Sets & More!

- Claims data

- Social determinants of health

- Health equity

- Advance directives

- Patient access

- Telehealth support

- Public health

- Research

Arizona to Roll Out Statewide Closed-Loop Referral Platform

Article on Healthcare Innovations Website – link to article here

Key Takeaways

- HIEs continue to support their communities, including expansion in new and needed areas

- Evolution of HIE will continue – health data utility models, regionalization and consolidation, etc.

- Interoperability will be shaped by upcoming federal regulations, further advancing data sharing and patient access

- Public health infrastructure focus will be critical in coming years, as nation recovers from pandemic and prepares for the future

Thank You!

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Imagine fully informed health.