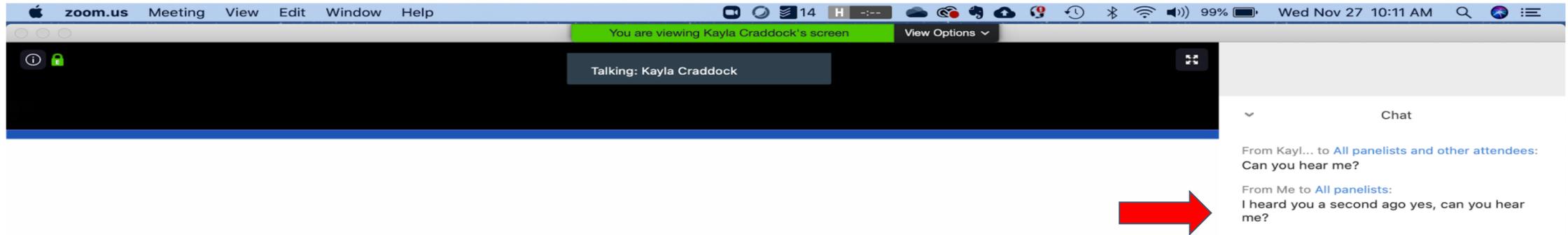


EHR-based Surveillance Learning Community

January 2020 Call

Learning Community Website: www.chronicdisease.org/page/MENDSinfo

Finding your way around Zoom



EHR-based Surveillance Learning Community

November 2019 Call

Learning Community Website: www.chronicdisease.org/page/MENDSinfo

Meeting controls are at the bottom of the window in the BLACK menu bar



Finding your way around Zoom

The image shows a Zoom meeting window. The main content area displays a slide with the following text:

EHR-based Surveillance Learning Community

November 2019 Call

Learning Community Website: www.chronicdisease.org/page/MENDSinfo

Meeting controls are at the bottom of the window in the

At the bottom of the window, there is a green banner with logos for the Public Health Informatics Institute and the National Association of Chronic Disease Directors. Below this is a black bar with icons for Mute, Chat, Raise Hand, and Q&A. The Q&A icon is circled in red, and a red arrow points down to it.

On the right side, a Q&A panel is open, titled "Q&A". It shows "All questions(1)" and "My questions(1)". A question is listed:

My Question 10:02 AM
Hey Kayla can you hear me?
[Collapse all \(1\) ^](#)

Kayla Craddock 10:02 AM
no I do not hear you....let me try unmuting from my end.

At the bottom of the Q&A panel is a text input field with the placeholder "Type your question here..."

Today's Agenda

The Health Information Technology Transformation: Implications for Public Health

- Why the rapid adoption of health IT in the past decade?
- What has been the impact to date?
- What are the benefits for public health?
- What challenges with health IT are most important for public health?
- What is the state nationally of Health Information Exchanges?
- How do we create a compelling value proposition for accessing EHR data?
- Q&A

Poll Questions

- What have been your personal experience with electronic health records as you or your family members obtain care?
 - Have definitely seen the benefits
 - Have not seen much difference
 - Has been more negative than neutral or positive

Why is health IT important to public health?

- The health IT transformation provides an important opportunity for improved population health and improved data exchange with public health
- Enables access to more timely, accurate and complete information
- Public health needs to understand the transformation occurring in healthcare to know how to leverage it

What is health information technology?

- The electronic systems health care professionals – and increasingly, patients – use to store, share, and analyze health information. Health IT includes:
 - Electronic Health Record (EHR) systems
 - Personal Health Records (PHRs)
 - E-prescribing
- The standards, laws, regulations, and policies that guide the functionality of each of these systems
 - Ex: Privacy protections and security requirements

Source: The Office of the National Coordinator for Health IT

Other key terms

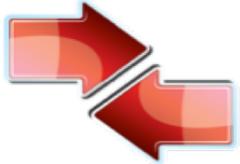
Electronic Medical/Health Record (EMR/EHR) -- A digital version of a patient's paper chart. EHRs are real-time, patient-centered records that make information available instantly and securely to authorized users. (ONC)

Interoperability -- Interoperability is the ability of **different** information systems, devices and applications ('systems') to **access, exchange, integrate and cooperatively use** data in a **coordinated manner**, within and across organizational, regional and national boundaries, to provide **timely and seamless portability** of information and **optimize the health** of individuals and populations globally. (HIMSS, 2019)

Why the rapid adoption of health IT?

- Congressional goal to improve the health of Americans and the performance of the nation's health system through health technology
 - *“Can't have 21st century medicine being held together by 19th century paperwork.”*
- \$48 billion appropriated through the HITECH Act (2009) to incent EHR adoption and meaningful use
 - Resulted in ongoing federal health IT strategic plans
- Public health reporting built in as part of incentive payments to providers and hospitals

Steps in Promoting the National Health IT Agenda



Establish standards, technology services, and trust to support interoperability

- Develop nationwide standards for information exchange



Stimulate adoption of interoperable electronic health records

- Provide financial incentives

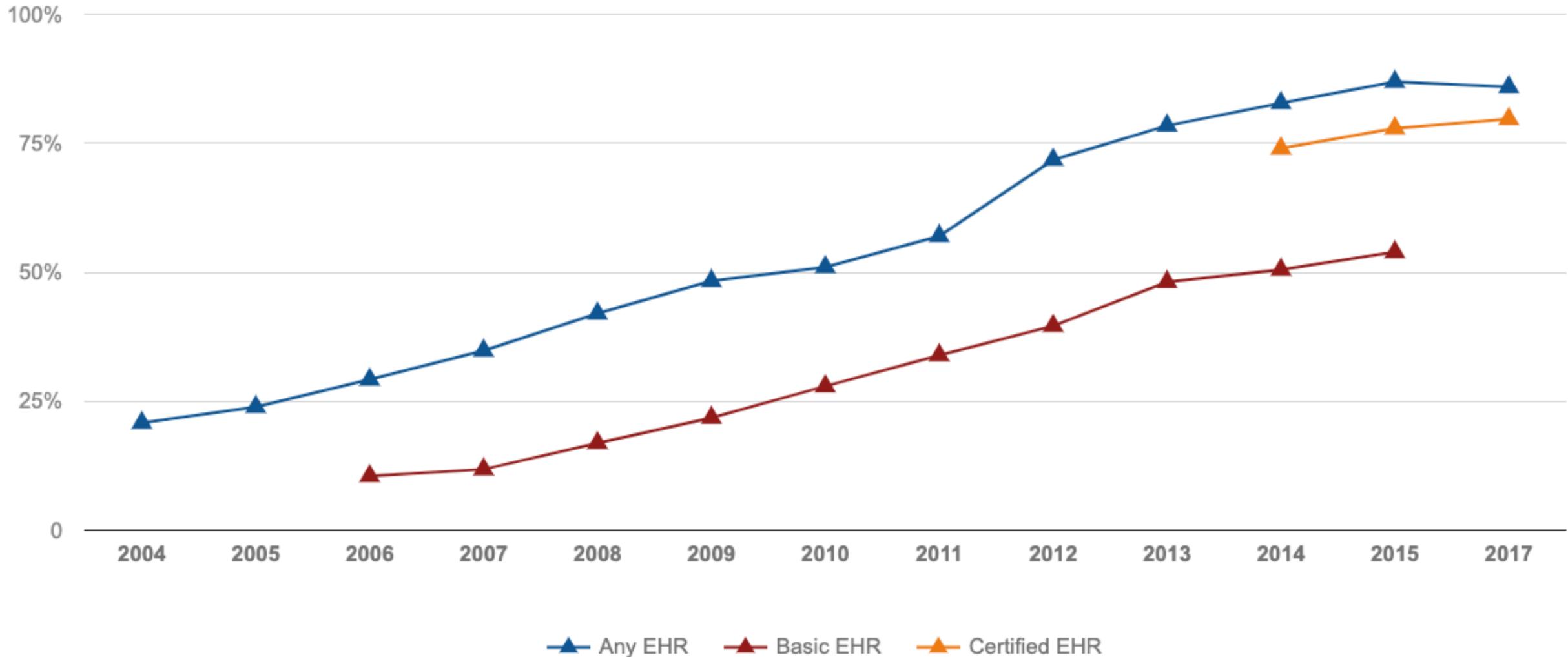


Promote the meaningful use of EHRs to improve quality and efficiency

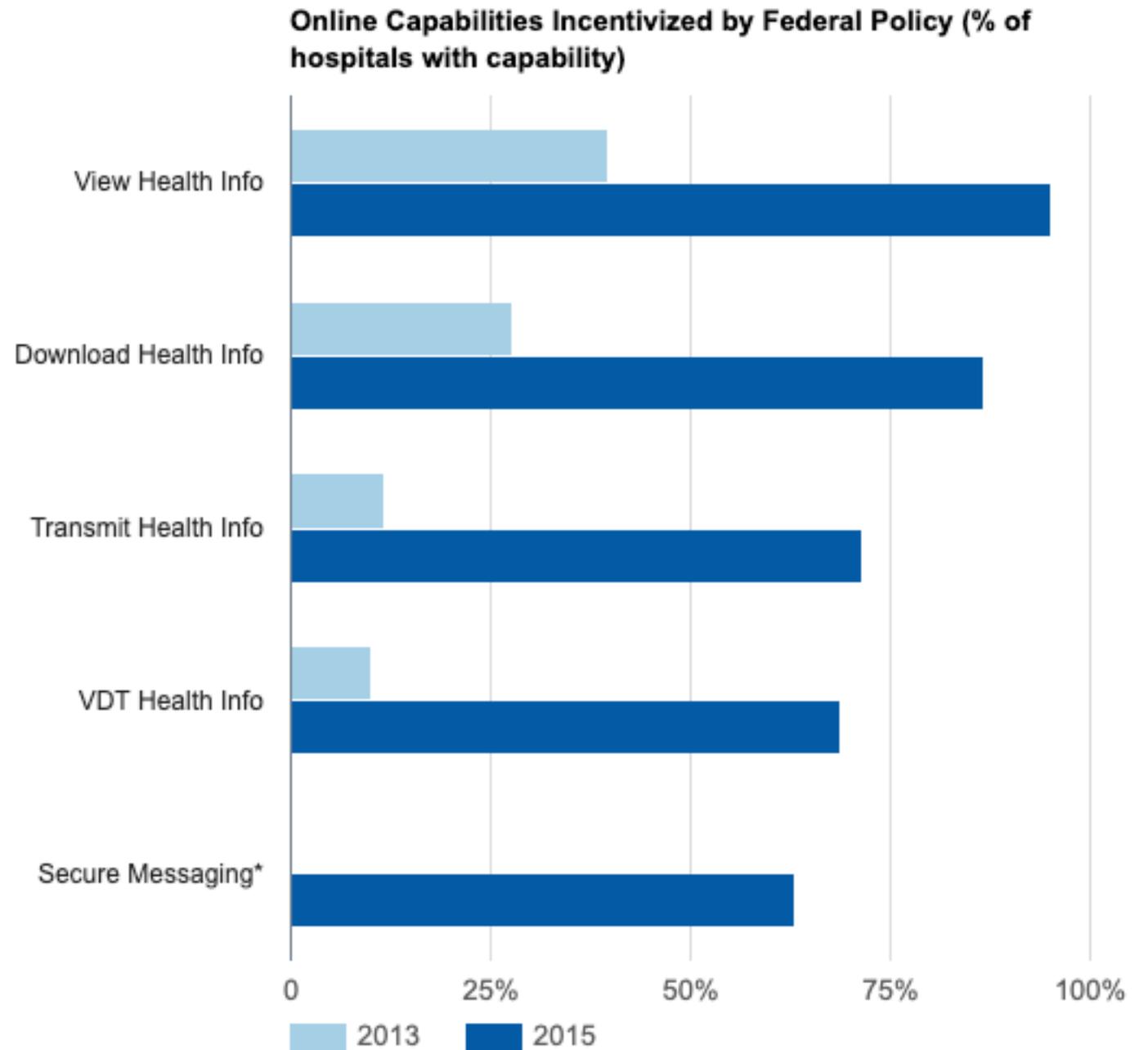
- Stimulate information exchange resources within and across states

Source: ONC

What has been the progress?



What has been the progress?



21st Century Cures Act (2016)

- Included provisions to improve healthcare IT, especially related to nationwide interoperability and information blocking.
- Trusted Exchange Framework and Common Agreement (TEFCA)
- Support for providers to leverage Health Information Exchanges
- Emphasis on providing patients access to their electronic health information that is "easy to understand, secure and updated automatically."

What are the potential benefits for public health?

- Clinical data more precise, accurate and timely than claims data
- Data is more structured, so more retrievable for analysis
- Clinical repositories enable population health queries
- Data readily available to entire care team
- Patient portals empower consumers; preventive reminders
- Clinical decision support rules can improve diagnostic and treatment services and health outcomes

2018 Report to Congress on remaining challenges

- “Patients often do not have electronic access to their health information, which hinders their ability to manage their health and shop for medical care at lower prices.
- Health care providers often do not have electronic access to patient data at the point-of-care, particularly longitudinal data maintained in different health IT systems.
- Payers often do not have electronic access to clinical data on groups of covered individuals to assess the value of services provided to their beneficiaries.”

Source: 2018 ONC Report to Congress

What challenges with health IT are most important for public health?

- Ongoing interoperability challenges
- Patient record matching, merging, deduplication
- Information blocking
- Data quality/accuracy
- Provider dissatisfaction with EHR system usability
- Privacy protections
- Sunsetting of CMS "Meaningful Use" programs
 - Will providers and hospitals continue to report to public health?



Promote the development and use of upgraded health IT capabilities



Establish transparent expectations for data sharing, in particular through open APIs



Improve the health IT end user experience, including by reducing administrative burden



Interoperable Access



for

Patients



Health Care Providers



Payers



Dr. Noam H. Arzt

Ph.D., FHIMSS, FAMIA

President, HLN Consulting, LLC

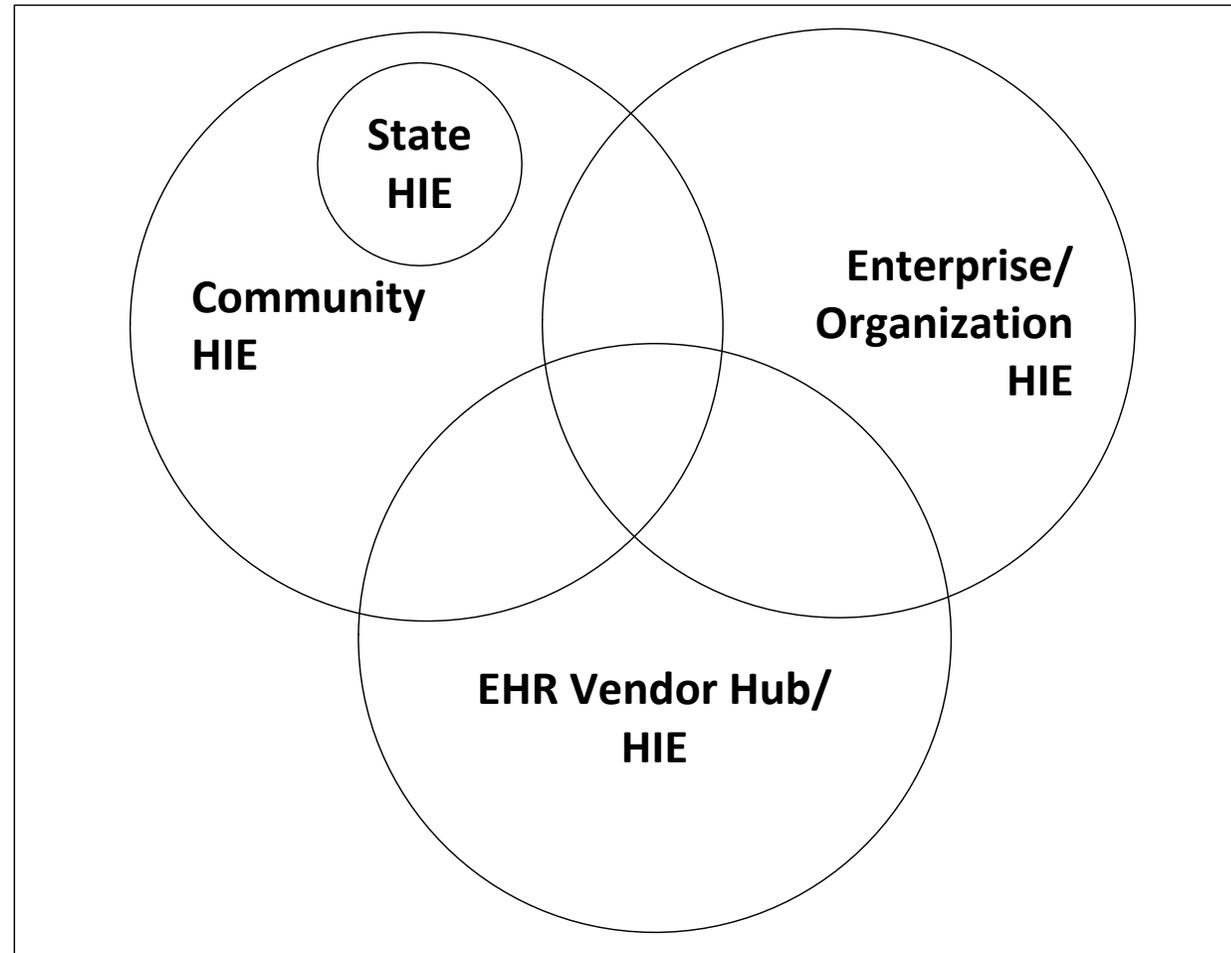
The Basics

- Health Information Exchange (HIE) as both a noun and a verb
 - *Noun*: Organizations (public, private or public-private hybrid) established to facilitate secure information exchange.
 - *Verb*: The process, policies and standards for securely exchanging digital health information

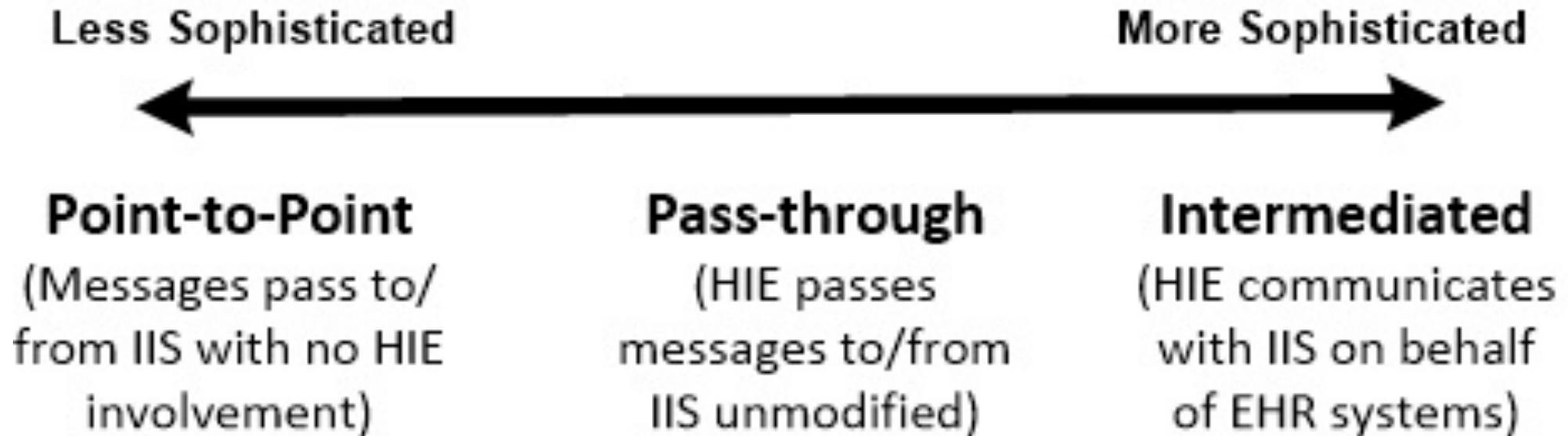
HIE History

- A major component of HITECH
- Significant funding went to many states through cooperative agreements from the ONC
- Spending priorities were on acquiring technologies and vendor support over building governance and trust agreements
 - Many HIE organizations failed for lack of a sustainable business model and committed participation from providers
- Others persisted and new models emerged.

HIE Models



HIE Interoperability Options



<https://www.hln.com/approaches-for-iis-hie-collaboration/>

How can HIEs support chronic disease surveillance?

- Some HIE models feature clinical data repositories suitable for routine and ad hoc queries, analysis and visualizations
 - *Example:* Louisiana, North Dakota and Washington MENDS projects working with statewide HIEs
- HIEs may be monitoring key population health indicators
 - *Strategy:* Create/strengthen a partnership to prioritize which indicators are monitored and how defined
- HIEs can help booster provider and payer interest in population health indicators/improvement
- Can provide an on-ramp for connectivity with providers

Wrap-up and Advice

- HIEs (the noun) are still a complicated and evolving landscape
- HIE (the verb) remains a challenge the U.S. needs to solve
 - But 'trust' among partners a major ingredient that can't be solved by technology
- Be familiar with HIE activities, policies, funding, drivers and priorities within your jurisdiction
 - Look for the win-win with your priorities

Contact Information

Noam H. Arzt

President, HLN Consulting, LLC

858-538-2220 (Voice)

arzt@hln.com

@NoamArzt

<http://www.hln.com/noam/>

What might be available from EHRs in the future?

- Social determinants
- Health-Age-Lifestyle-Occupation (HALO) factors
- Patient assessment tools

How to create a compelling value proposition for accessing EHR data?

- Understand their current priorities and drivers
- Tie your priorities to theirs
- Minimize the burden on their end
- Be patient.

On a related note...

- \$50M in *new* funds for modernizing public health information systems.
 - Grew out of the Data: Elemental to Health campaign
 - Funding for CDC and states
 - Mostly focused on modernizing surveillance systems

Also:

- \$230 million to address tobacco and e-cigs
 - An increase of \$20 million
- Firearm injury and mortality prevention research funded!

Relevant white papers and other resources

- HLN.com/knowledge
- *The Interoperability of Things*
 - <https://www.hln.com/wp-content/uploads/2016/03/JHIM-InteroperabilityOfThings-Fall-2015.pdf>
- *HIE: The New Landscape*
 - <https://www.hln.com/hie-the-new-landscape/>

Discussion Questions

- What lessons learned/advice can you share from your experiences in working with EHR data or in creating partnership around data sharing?
- What questions do you have for our speakers or for others on the call?

Housekeeping

- Next meeting: February 21st at 3pm EST
- Educational Topics include: Case Definitions
 - Joe Gibson, Marion County (IN)
 - Hilary Wall (CDC)

PLEASE COMPLETE THE POST WEBINAR SURVEY!