Download

A monthly webinar diving into the intersection of healthcare and technology









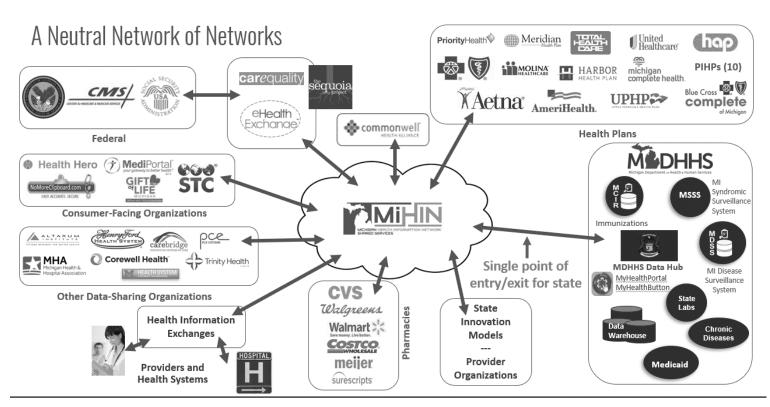




Michigan Health Information Network **Shared Services (MiHIN) is a non**profit organization that provides technology and services to connect disparate sectors, our stakeholders, to securely, legally and technically share health information.

An unbiased data trustee, MiHIN does not provide health care services, produce health care data or compete in the marketplace.

Instead, we help convene to share vital health information to advance care. better outcomes and lower costs.



Technology is a tool. Humans are the energy! Technology is meant to support the human ability to connect, communicate, and collaborate.











Today's Agenda





Adjourn 03 Joanne Jarvi













Joanne B. Jarvi Senior Director of Outreach and **Market Communications MiHIN**

Joanne.Jarvi@mihin.org

Communication, the successful conveying or sharing of ideas, is more critical than ever.

Every communication involves (at least) one sender, a message and a recipient.

Data is not always communicative.

Technological Infrastructure + Human Infrastructure

- Joanne Jarvi (Facilitator)
- **Katelyn Lewis (**Webex Chat Moderator**)**







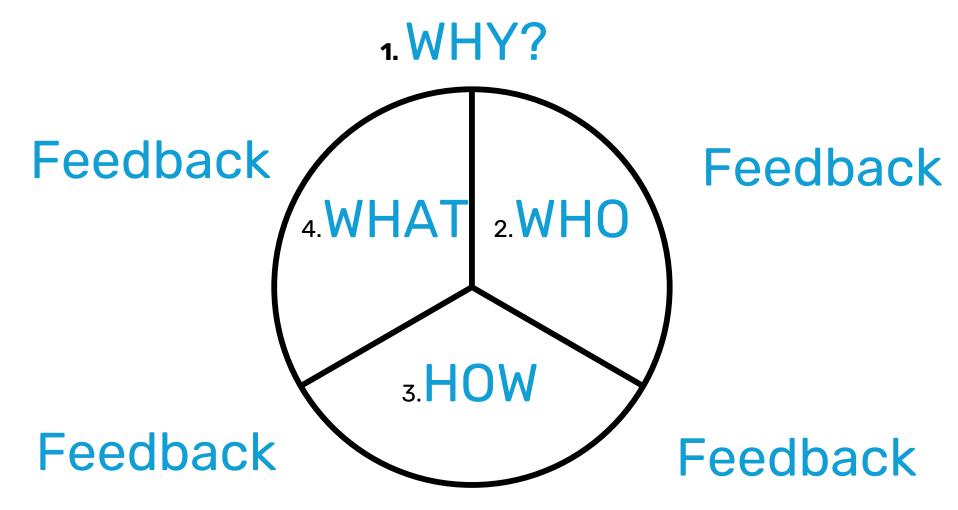






The Group Development Model

(with special thanks to MHEF and MPHI)













WHY? Data for Good





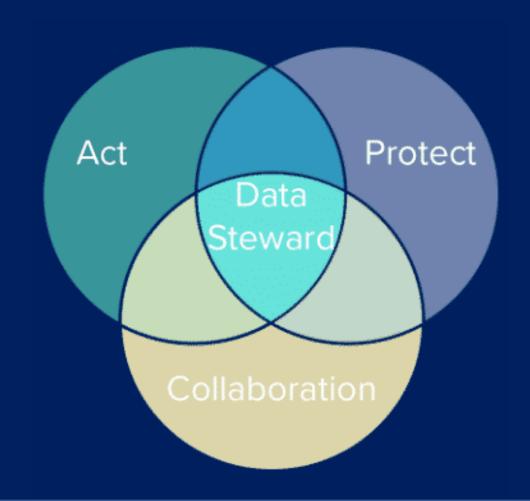








WHY? **Data for Good**













Every year in the US, an estimated \$760 to \$935 billion is wasted through overtreatment, poor coordination and other failures, amounting to about a quarter of total U.S. health care spending.

Nationally, an estimated 251,454 people die annually from medical errors.

Adjusted for MI (3.09% of US population) that is 7,768 people a year or over 8 times more people than those who die from car crashes annually in Michigan.











The GOALS of Health Information Exchange

Reduced inefficiencies



Improved healthcare access



Lower healthcare costs



Better quality of care & health outcomes



Personalized medicine for patients













Infrastructure, Standards and Guiderails







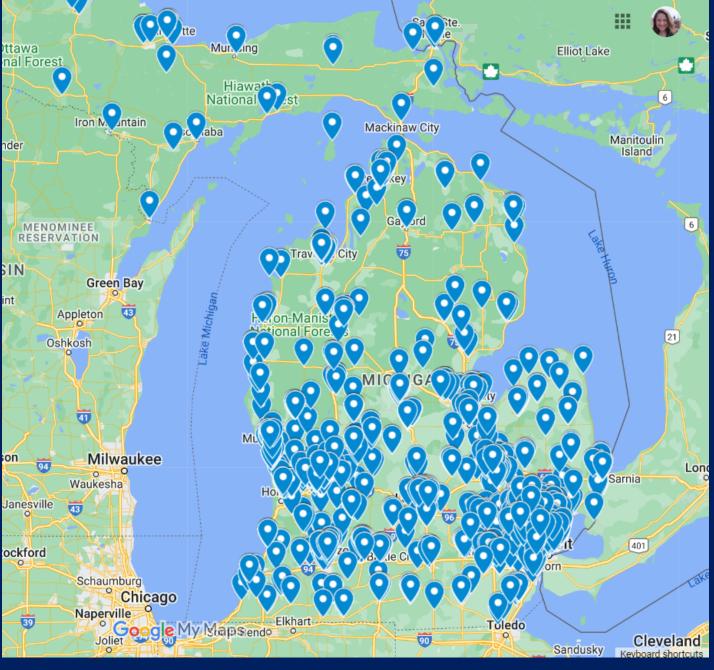








MiHIN Network is a state-wide digital fabric **TRUST**





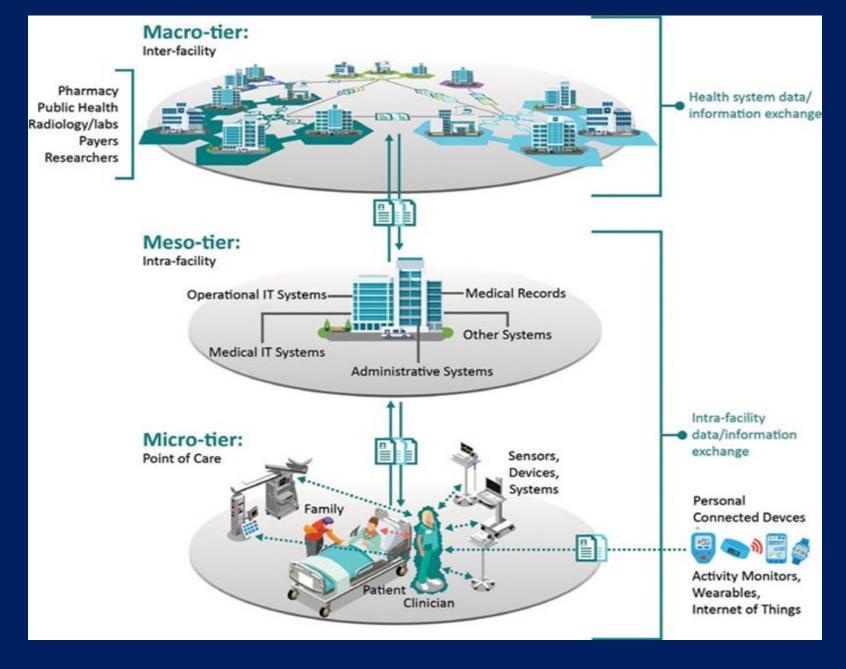








For WHOM
With WHOM
By WHOM?













For WHOM

With WHOM

By WHOM?

The value of HIE cannot be defined solely in terms of benefits accrued to providers or any other single group.

The value of HIE cannot be parceled out in such a minute fashion but must be considered in terms of benefits to all participants in the healthcare system: patients, providers, payers, and communities.

Additionally, HIE requires collaboration among competitors and the healthcare industry has difficulty with this prospect.

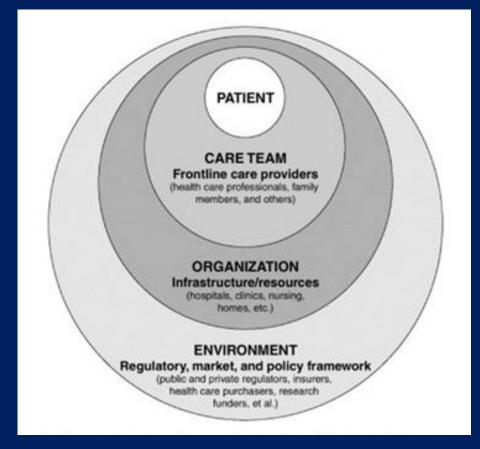
Other equally competitive industries have managed to survive and thrive with information exchange.

<u>J Am Med Inform Assoc.</u> 2010 May-Jun; 17(3): 288–294. doi: 10.1136/jamia.2010.003673

PMCID: PMC2995716

PMID: <u>20442146</u>

Health information exchange: persistent challenges and new strategies





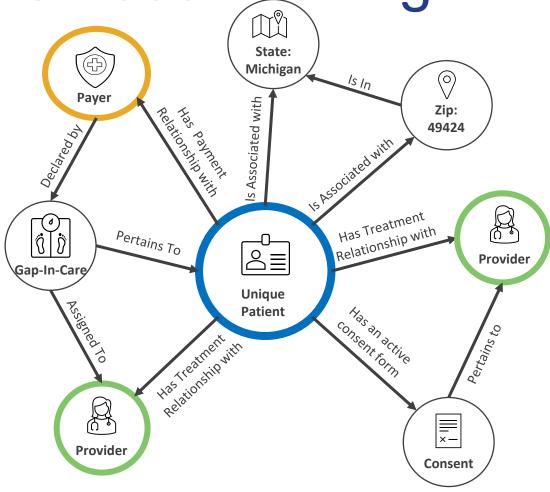








ACRS (Active Care Relationship Service): Its About Making It All Patient Centered



Objects

Real-world objects like patients, providers and organizations and abstract concepts like zip codes, dates, risk scores, social needs and many others.

Relationships

A logical association between two objects – Provider A <u>cares for Patient B</u>; Patient B <u>lives in</u> Zip Code 49424

Semantics

Indicates the meaning of objects and relationships
Provider A <u>has a treatment relationship with</u>
Patient B; Provider A is a Primary Care Physician



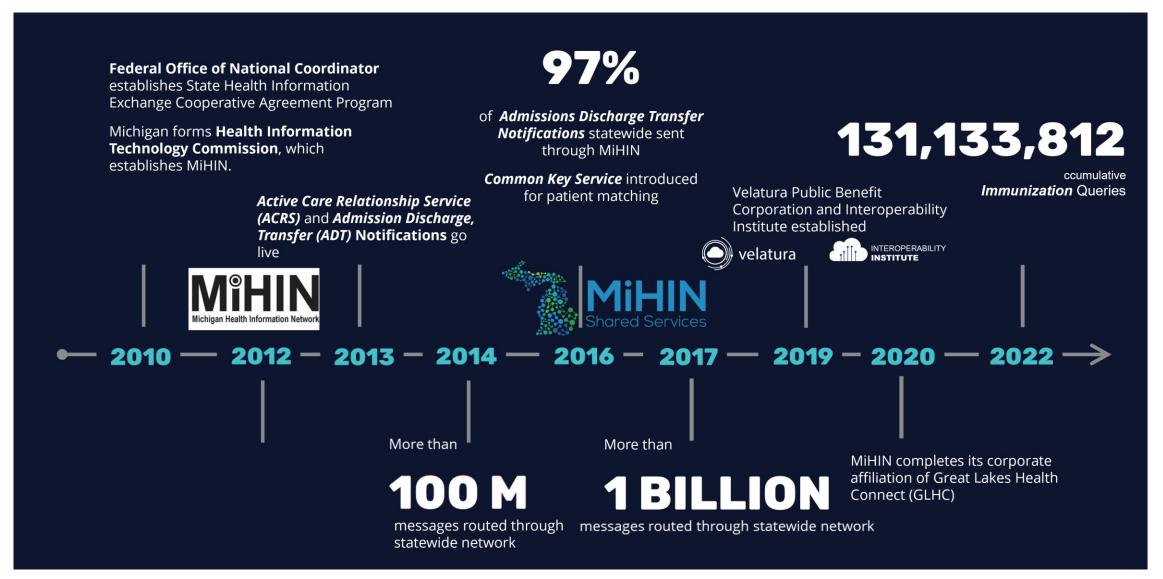








Brief History: Michigan Health Information Network Shared Services





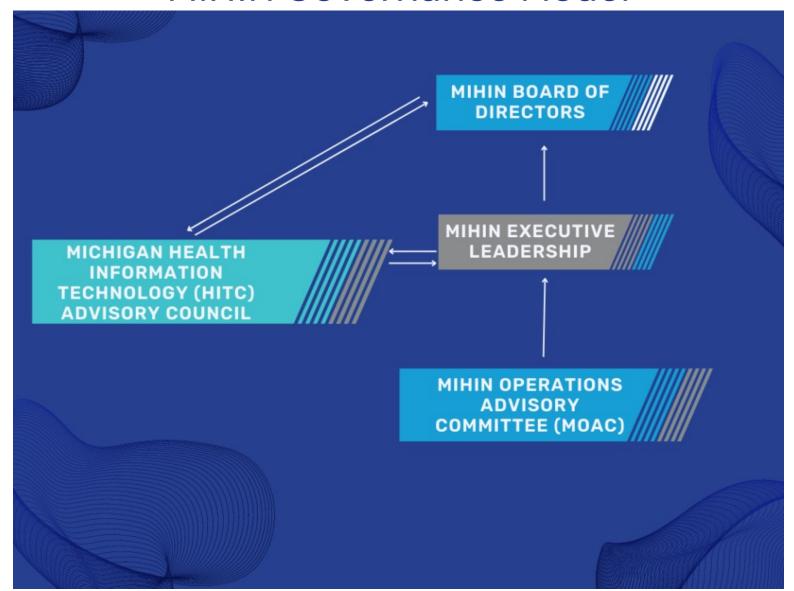








MiHIN Governance Model











Michigan's "network of networks"

Interoperability Connects Healthcare Providers ...It Can Get Complicated

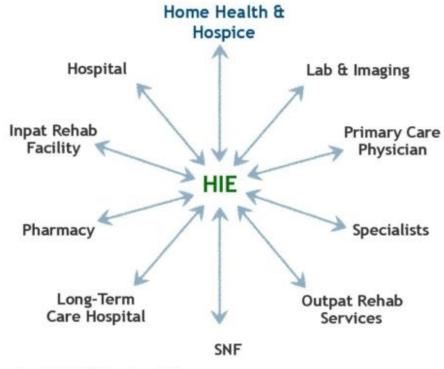
BEFORE:
Duplication
of effort,
waste and
expense

Hospice Hospital Lab & Imaging Primary Care Physician Pharmacy Specialists Outpat Rehab Care Hospital SNF

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Health Information Exchange (HIE)

...Simplifying the Interoperability Equation



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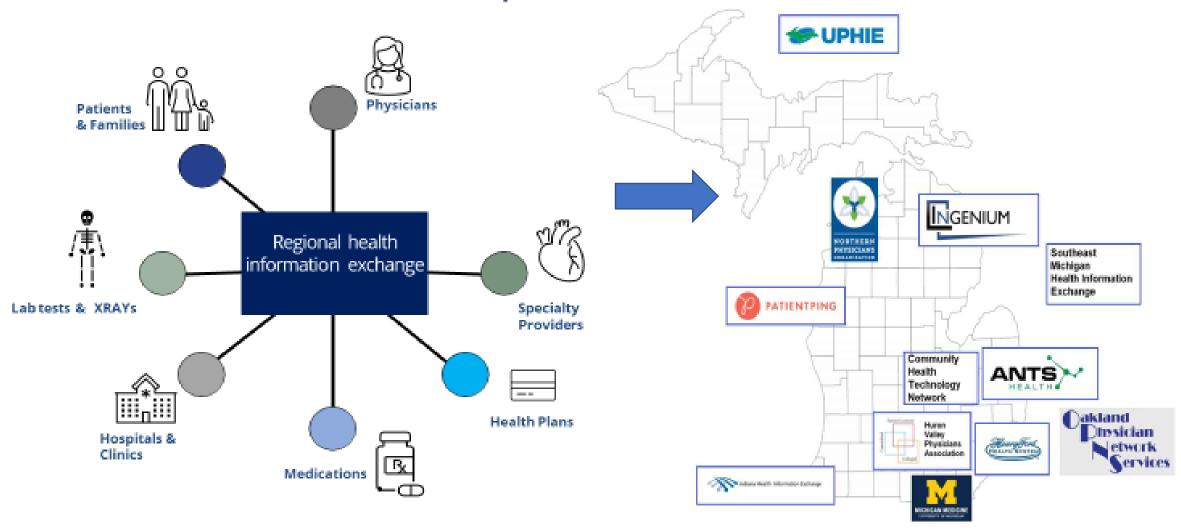








Many networks connecting regional health providers









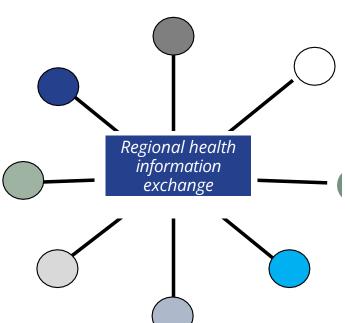


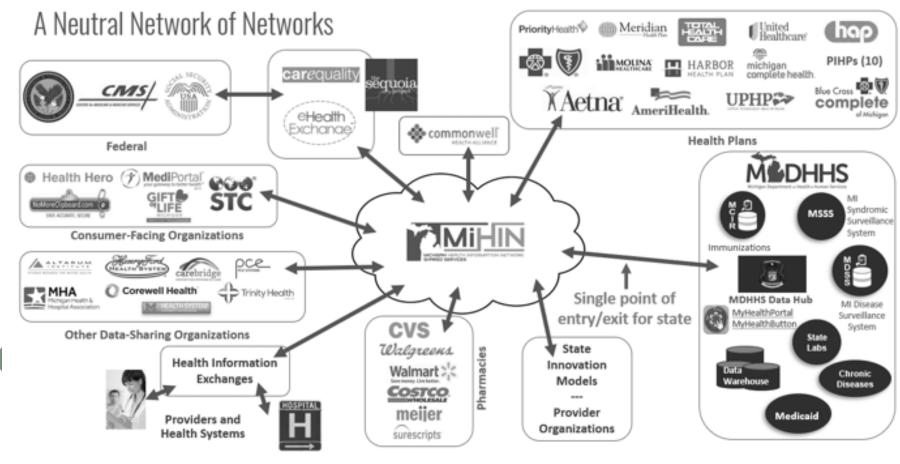


Michigan's "network of networks"

SINCE 2010:

Connect once to access shared services











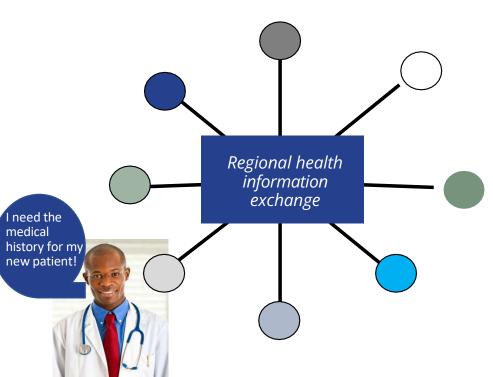


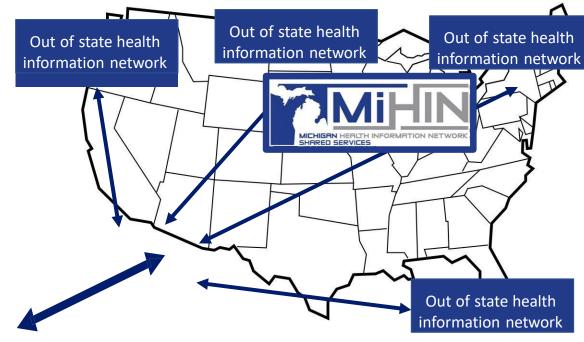


Michigan's "network of networks"

TOMORROW:

Connect once to access interstate data exchange, leveraged under the ONC Trusted Exchange Framework and Common Agreement





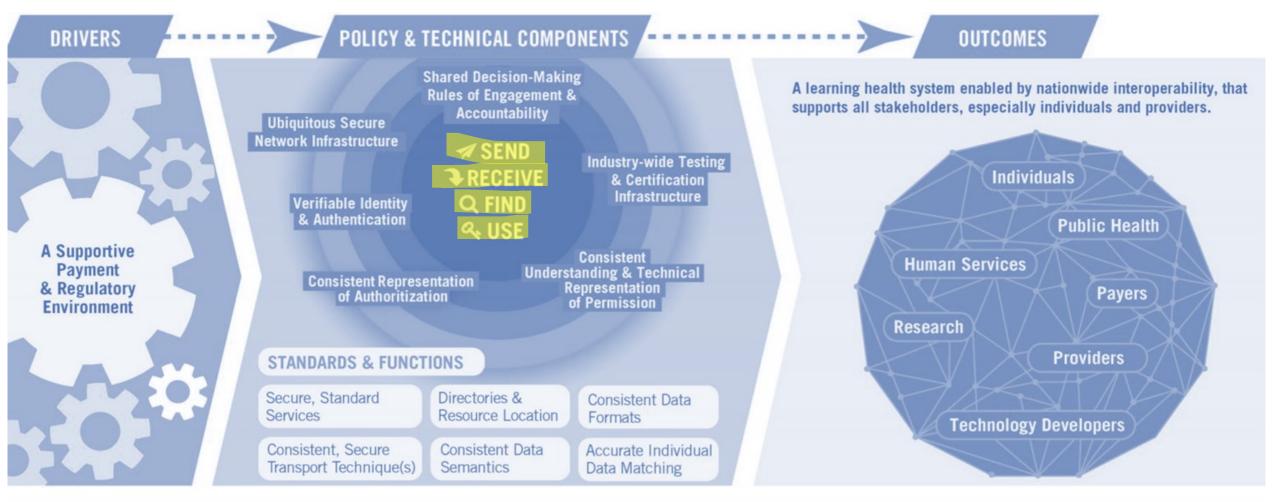








HOW does it all work?



"Connecting Health and Care for the Nation: A Shared Nationwide Interoperability Roadmap." The Office of the National Coordinator for Health Information Technology." Final Version 1.0.





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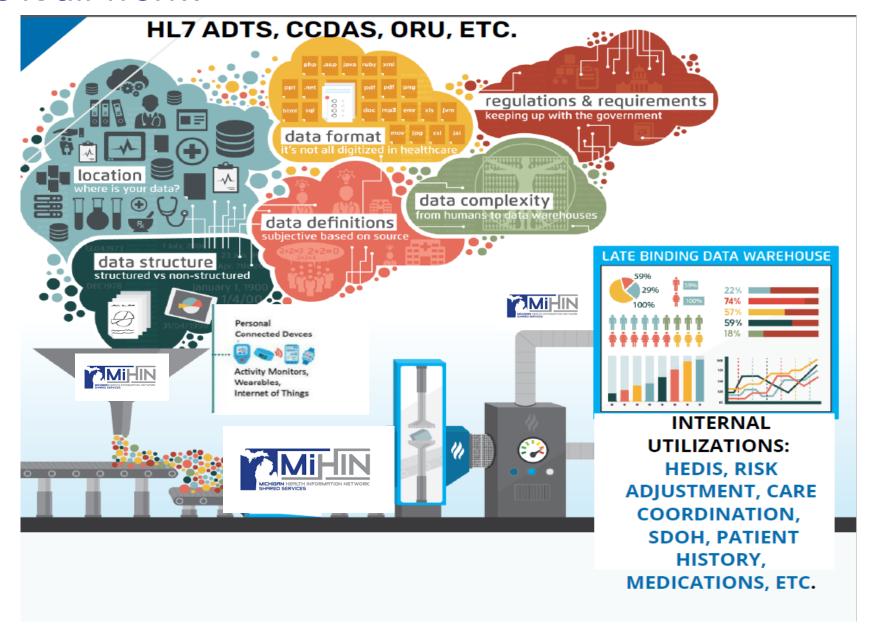






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HOW does it all work?



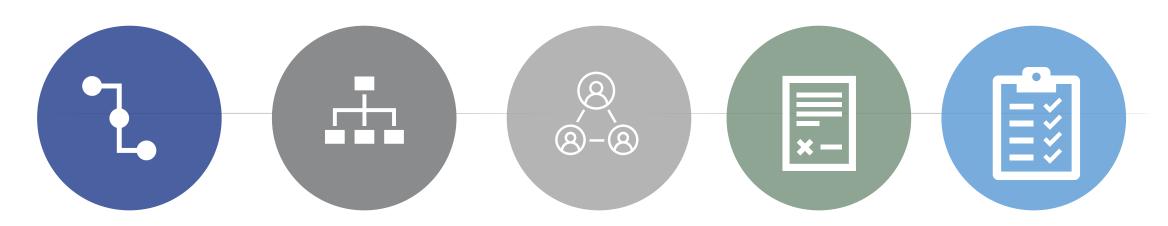








HOW does it all work?



Connect Department of Health and Human Services and healthcare organizations in Michigan including:

 Health systems, physician organizations, health plans, pharmacies, etc. Maintain statewide master data sharing infrastructure Convene stakeholder groups to identify data sharing barriers, reduce provider burdens, engage consumers, and enable population health Manage statewide legal trust framework

Align incentives and/or regulations to fairly share data and promote data standardization via use cases

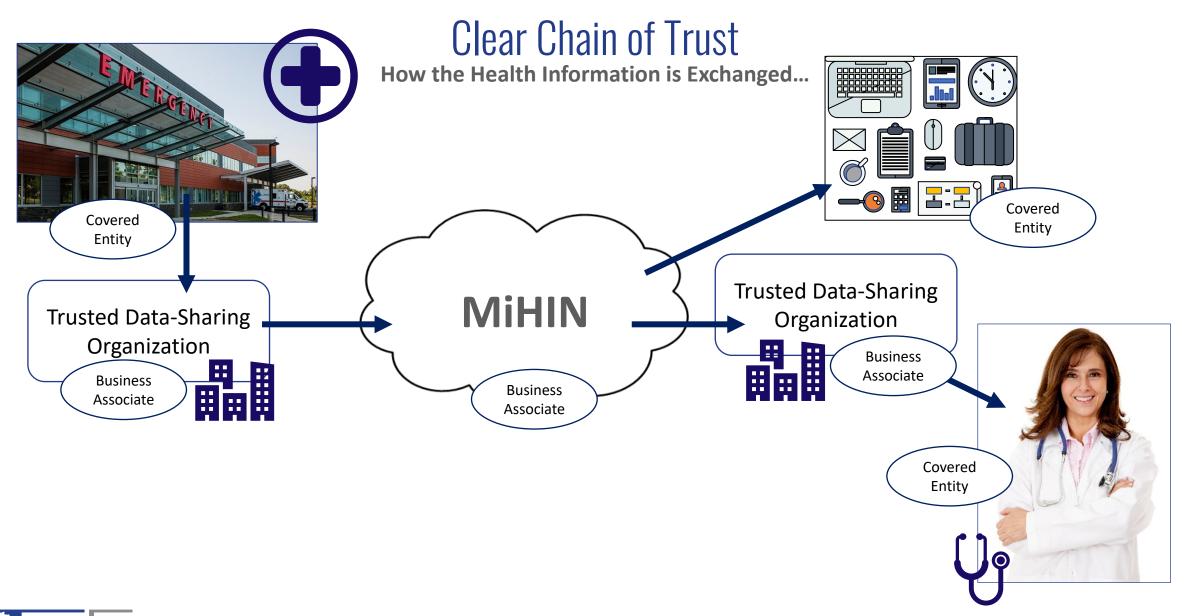






















Use Case

One or more scenarios to share specific information



Each use case has its own:

- Purpose
- Type of information exchanged
- Description of interactions between people/systems



Examples of use cases:

- *Immunizations*
- Admission Discharge *Transfer (ADT)* **Notifications**





Each use case may have different:

- Participants/interested parties
- Scenarios for informationsharing
- Rules for using the information
- Technical requirements
- Access restrictions
- Cost recovery fees or charges

Anyone can suggest a use case at https://mihin.org/submit-use-case-idea/













help@mihin.org

Use Case Factory

How does it work?

Adoption

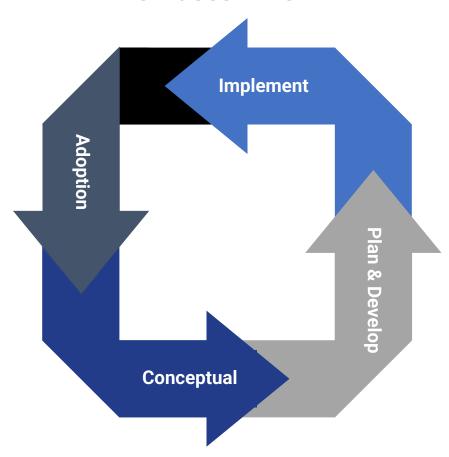
Critical Mass

Continuous Improvement. ...Bringing us back to...

Conceptual

- Define purpose
- Evaluation

Idea with Sponsor



Implement

- Production Status
- Metrics

Mass Marketing & Outreach Successful Adoption

Plan and Develop

- Technical Planning
- Pilot and Refine

Functional Data-Sharing Widget ... onto MOAC and the MiHIN Board















CONCEPTUAL

An Idea with a Sponsor

Current Developing Use Cases

- Alert & Query
- Personalized Medicine
- •Intelligent Query Broker

- Use Case Scenarios or Activities
- Exchanging Lab Orders (technology not there yet)
- •Piloting with State Bureau of Labs on orders and results Consumer Choices

- ACRS AWARE
- •ADT Privacy Tagging















PLANNING & DEVELOPMENT

Developing the Project

Current Use Cases Supporting Care Coordination

- Imaging
- Advanced Care Documents
- Statewide Telehealth
- •Interoperable Referrals

Current Use Cases Supporting Public Health

- Death Notifications (for hospitals)
- •Electronic Consent Management Solution (ECMS or Econsent)

Current Use Cases Supporting Quality Information and Administration

- Health Claims
- Use Case Scenarios or Activities
- Out of State ADT's
- Cross Sector Data Sharing: First Responders















IMPLEMENTATION

Ensuring Successful Adoption

Current Use Cases Supporting Care Coordination

- Referrals
- Social Determinants of Health

Current Use Cases Supporting Public Health

Electronic Case Reporting (eCR)















ADOPTION

Utilization, Demand, and Sustainability

Current Use Cases Supporting Care Coordination

- Admission, Discharge, Transfer Notifications
- Exchange Consolidated Clinical Document Architecture
- Longitudinal Record

Current Use Cases Supporting Public Health

- •Health Information for State
- •Immunization History Forecast
- Syndromic Surveillance

Current Use Cases Supporting Results Delivery

- <u>Lab Orders-Results</u> (Cancer Notifications, Cancer Pathology, Newborn Screenings, Reportable Labs, Blood Lead, Disease Surveillance)
- Radiology Studies
- Transcribed Document Delivery

Current Use Cases Supporting Quality Information and Administration

Physician Payer Quality Collaborative (QMI)

Current Use Cases Supporting Network Infrastructure

- Common Key Service
- Active Care Relationship Service
- Health Directory





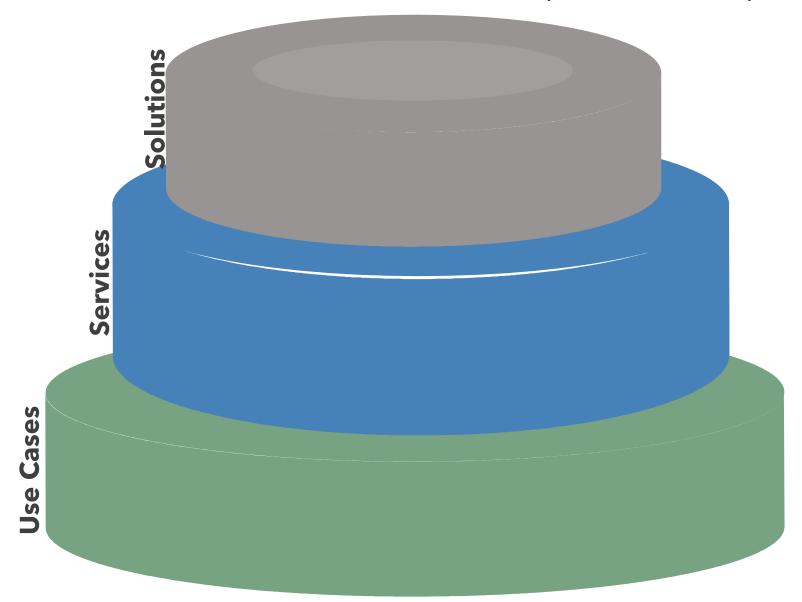






The WHAT:

The Use Case determines the Service which can be operationalized by the Solution











MiHIN Services

- **ADT Normalization & Conformance**
- Active Care Relationship Service
- C-CDA Normalization & Conformance
- Common Key Service
- Connect to Cancer Registry
- Coordinating the Care Coordinators
- Covid-19 ACRS Batch Reporting
- **Death Notifications outbound**
- **Direct Secure Messaging**
- **eConsent**
- **Electronic Case Reporting**
- 12. Health Directory
- 13. Immunization for Schools (also known as Consumer Access)
- Immunization Query
- Immunization Submission
- 16. Lab Conformance and Normalization

- Longitudinal Patient Record
- Making Choices Michigan: **Advanced Directives**
- 19. Newborn Screening Login Portal
- Population Health (MDSS, MSSS, ADT/syndromic, CCHD, ORU)
- 21. PPQC (APS Files)
- Public Health Reporting (MCIR: QBP, VXU)
- Radiology Conformance and Normalization
- 24. Receive ADTs from External **Facility**
- 25. Receive C-CDA from external facility
- Receive Death Notification
- Receive External Lab Results
- Receive External Radiology Results

- 29. Receive Transcribed Documents
- Reportable Labs to State of Michigan
- 31. Send Claims Data for Disease Registries
- 32. Send Ambulatory C-CDA
- 33. Sharing Integrated Care Bridge Record (ICBR)
- 34. Submission of SDOH Screening Forms to Route
- 35. Super C-CDA
- 36. Syndromic Surveillance











MiHIN Solutions

- MIGateway
 - TOC Viewer
 - Conformance Module
 - SDOH Screening Data
- Referrals Plus
- Care Convene
- Diretto (Direct Secure Messaging)
- Interoperability Station
- Interoperability Land (MELD)
- EDO with Point Click Care













AT SCALE: THE REQUIRED SIZE TO SOLVE THE PROBLEM

OVER 2 MILLION LABS FLOWING INBOUND TO MIHIN (MORE THAN 1 OUTBOUND PER 1 INBOUND APPLIES)

AN AVERAGE OF ABOUT 7.5M ADTS IN AND 11.5 OUT MEANS THAT ANY WAY THAT YOU COUNT IT - WHEN WE FIND AN **ACTIVE CARE RELATIONSHIP THEN WE TYPICALLY FIND** MORE THAN ONE. THE SAME IS TRUE OF MEDREC.

FORECAST THAT CALENDAR YEAR 2023 WE WILL LIKELY HIT A **CUMULATIVE TOTAL OF 10 BILLION MESSAGES (WE ARE AT 7.5 BILLION** NOW AND WE WENT UP 1.6 BILLION FROM Q3 2021 TO Q3 2022













Areas of opportunity







Maximize the impact of publicprivate partnerships by creating a statewide plan that can drive *ioint investments* in interoperable



Support systems that address social determinants of health with screening and referral systems, and integrated health and human services data



Expand real-time notifications and daťa exchange to improve coordinated care delivery, follow up, and public health response



Enhance the use of data to measure performance and 'drive decisionmaking in the public and private 'sectors, including improving standardization and completeness



Streamline activities across the system, creating tools that reducing duplication of effort for providers and patients, and 'adopting a "build once" mindset













High Level Priorities



Key Timelines for Open Data Access

Cures Act EHRs must certify & provide all three CURES Act APIs (consumer, physician, population "bulk")

CMS IP Rule physician fee schedule (final) Providers must adopt the 2015 Cures Update edition for an EHR reporting period in CY 2023

Transparency in Coverage information for 500 shoppable services

CMS Advancing Interoperability (proposed)

Payers must implement a Provider Access API making claims data available to provider partners

December 2022

September 2023

January 2023

January 2026



Cures Act (EHR Certification)

December 31, 2022



Provider Adoption (Cures Update)

Transparency in Coverage Shoppable Service Tool



Provider Access API and Prior Auth

September 30, 2023

January 2023 & 2024

January 2026

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Interested in working with MiHIN?

The first step is to **identify a use case** with a manageable scope that can grow incrementally.

Does my organization have health data that other members of the care team would find valuable or vice versa?

Why do I want to share the data?

What is the data going to be used for?

From there, let's work together to identify policy or governance challenges and figure out how to create a technology solution to enable that data sharing.











The Download

The Use Case Factory: From Conception to Adoption Wednesday, February 15 from 10:00am-11:00am

Bits & Bytes

Admission, Discharge, Transfer Notifications (ADT) Use Case Wednesday, February 22 from 2:00pm-3:00pm

THANK YOU!











