THE DOWNLOAD

A monthly webinar diving into the intersection of healthcare and technology

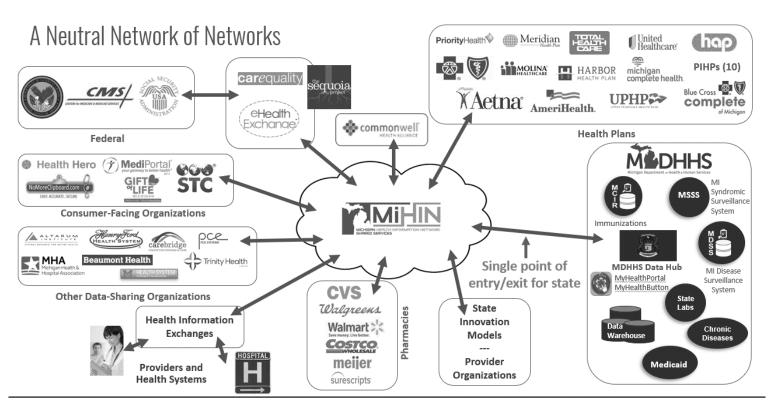




Michigan Health Information Network Shared Services (MiHIN) is a non-profit organization that provides technology and services to connect disparate sectors, our stakeholders, to securely, legally and technically share health information.

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

01 Welcome
Joanne Jarvi

02 MiHIN 101
Joanne Jarvi

O3 Adjourn
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**)**







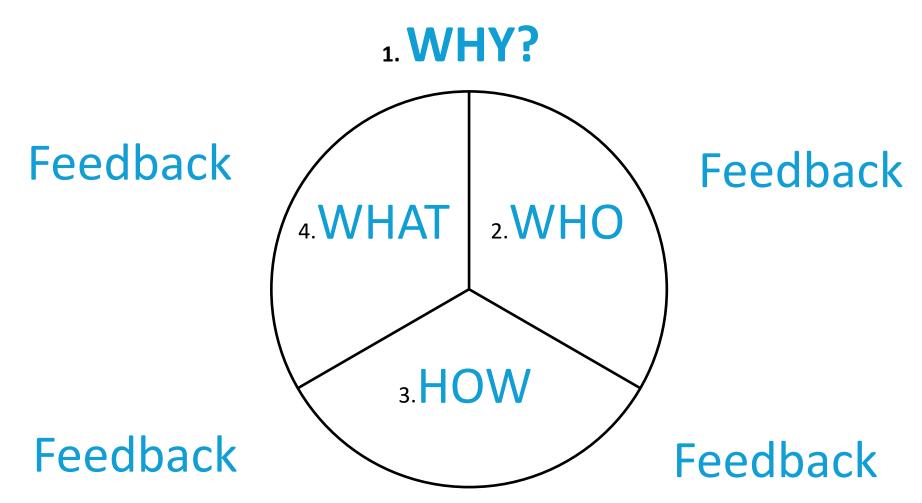






The Group Development Model

(with special thanks to MHEF and MPHI)













WHY? Data for Good











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







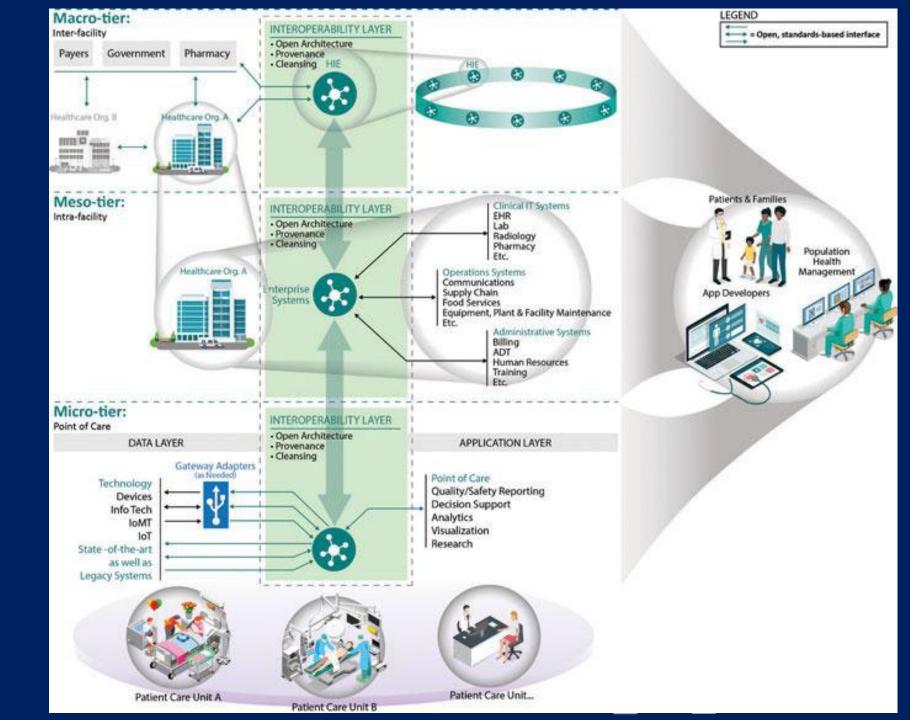








For WHOM
With WHOM
By WHOM?



LEVEL	KEY STAKEHOLDER
Micro	Patient
	Patient's family & support structure
	Individual care givers & small practices
	School-based clinics site
	Local health department
	Emergency Medical Support & First
	Responders
	Emergency department
	Critical Access Hospitals
Meso	Physician Organizations
	Direct Contracting, Risk or Accountable Care
	Orgs
	Health System
	- Calum System
	Health Plans
	- Tourism Tumb
	HIEs, CBOs, HINs
	Municipal Government (Cities & Counties)
	,
	State Medicaid
	State Human Service
	State Public Health
Macro	Academic Medical Centers
	Technology Incubators
	Strategic Health Information Exchange Col- laborative
	(SHIEC)
	National Provider Organizations & Health Systems
	National Health Plans
	Centers for Medicare and Medicaid
	Office of the National Coordinator
	Veterans Affairs
	Centers Disease Control
	Standard Development Organizations (HL7, IHE, OMG,
	X12, etc.)

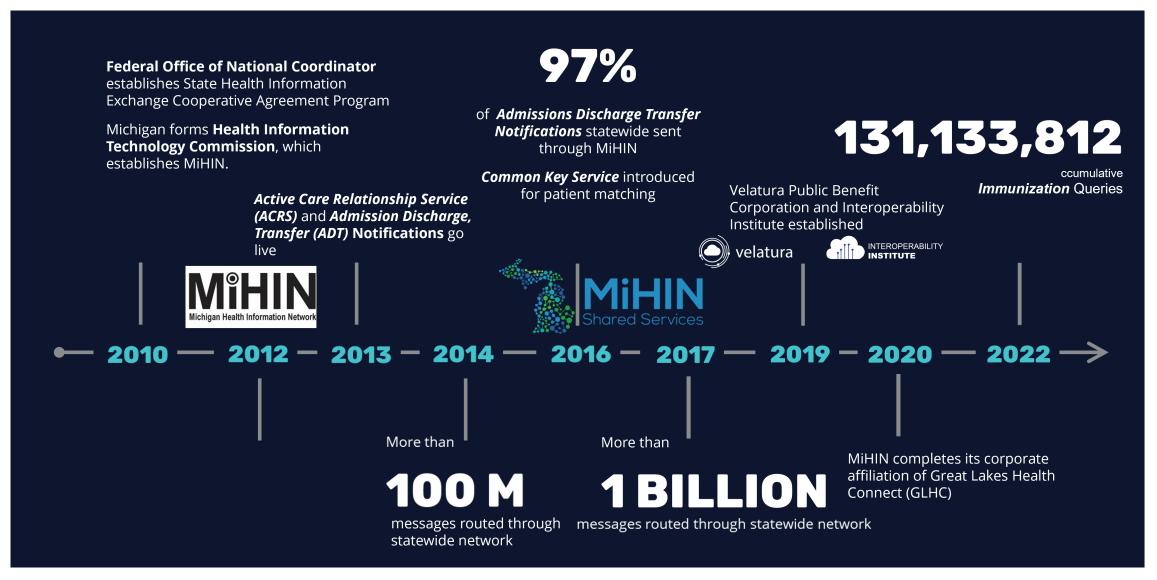








Brief History: Michigan Health Information Network Shared Services





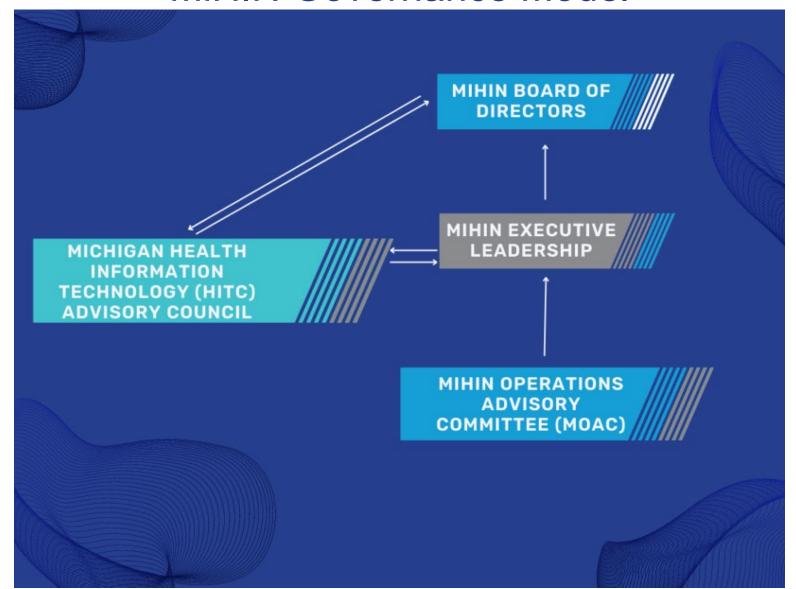








MiHIN Governance Model



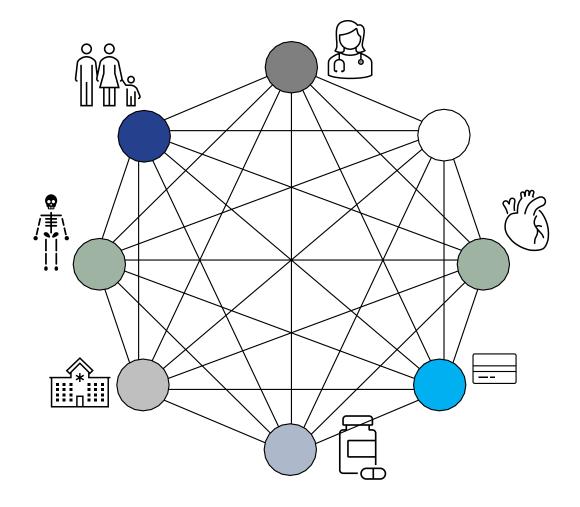








BEFORE: Duplication of effort, waste and expense







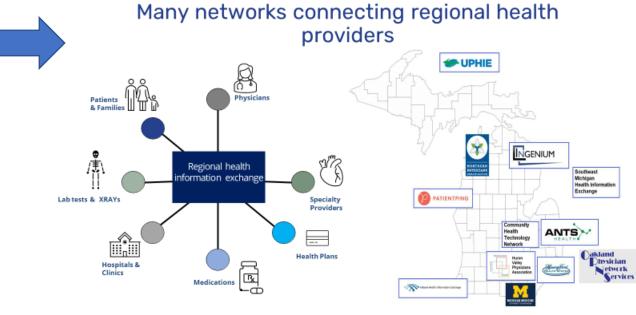






BEFORE: Duplication of effort, waste and expense





























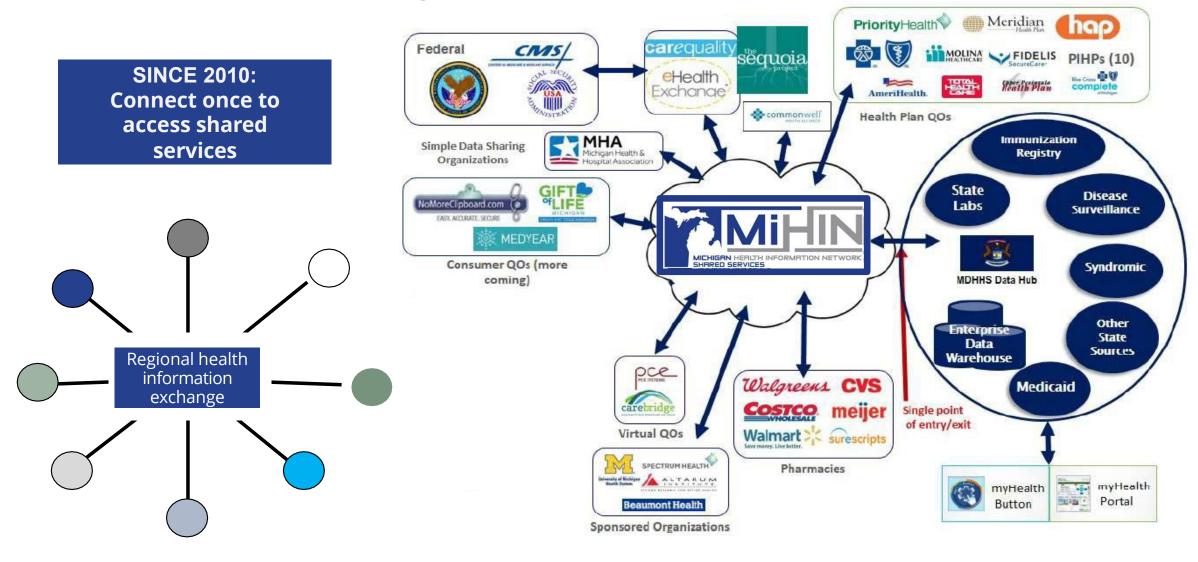








Michigan's network of networks









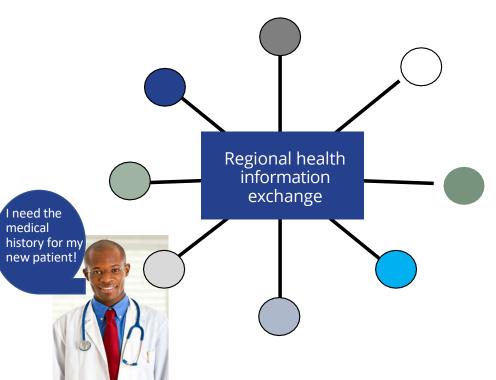


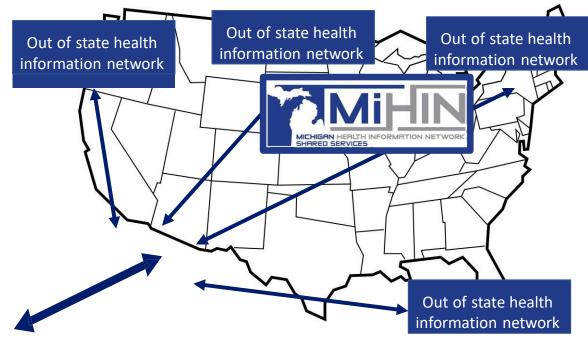


Michigan's network of networks

TOMORROW:

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



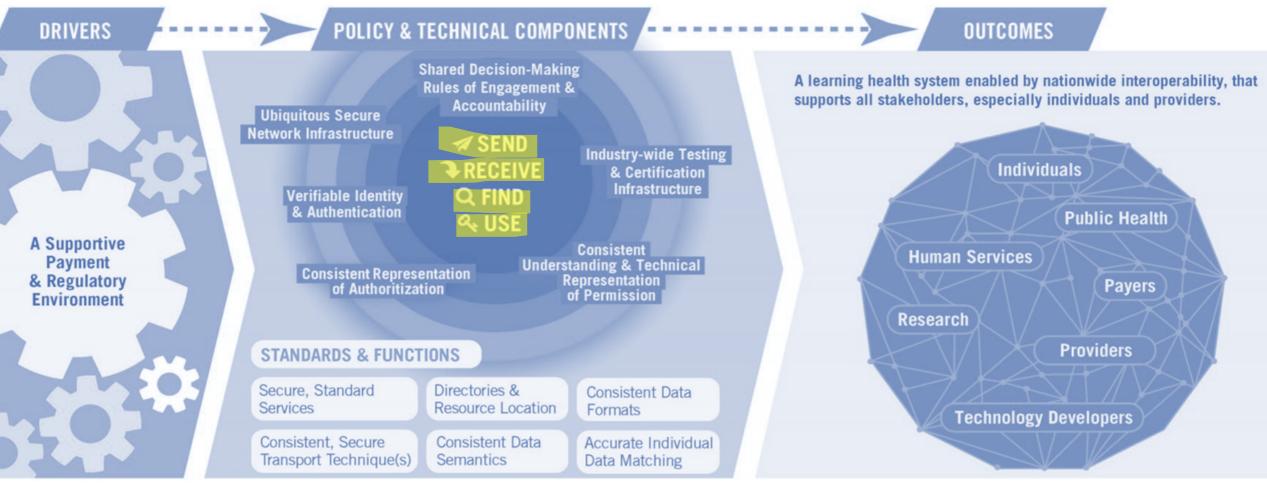








HOW does it all work?



[&]quot;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.





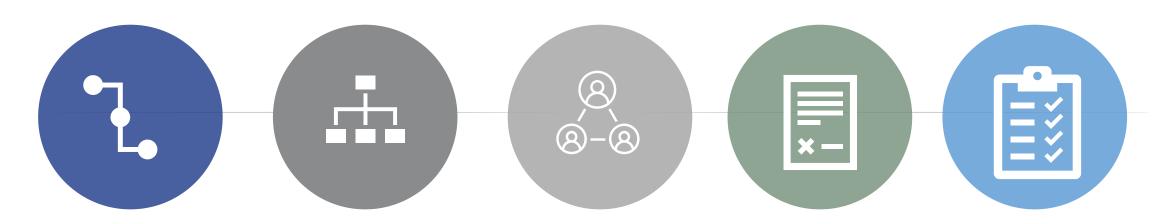








HOW does it all work?



Convene

health

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

stakeholder groups to identify data sharing barriers, reduce provider burdens, engage consumers, and enable population 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 information-sharing
- 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

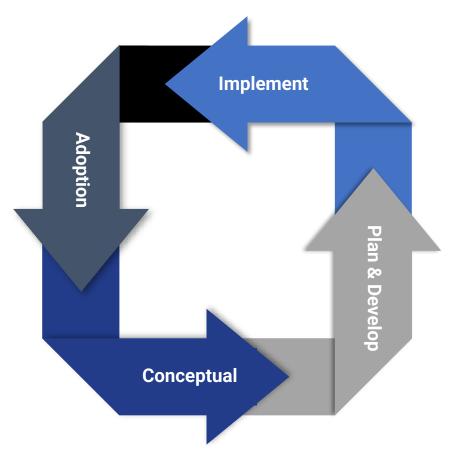
Critical Mass

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**











Family of Companies



















Velatura Public Benefit Corporation & Interoperability Institute



creatively connects and aligns people, organizations, technology, ideas, and information to improve the way healthcare information is exchanged today through professional services and best in class technology solutions



an alternative nationwide health information network, focused on rationalizing interstate data exchange at national scale



a consolidation of health information exchanges, community-based organizations, and health information networks that have formally affiliated to achieve national economies of scale yet maintain localized stakeholder alignment



a non-profit software technology research and development institute. Uniquely positioned as a health information technology innovation incubator, IOI's capabilities include applied research, software development, informatics, data science, artificial intelligence, machine learning, natural language processing, and solution enablement.







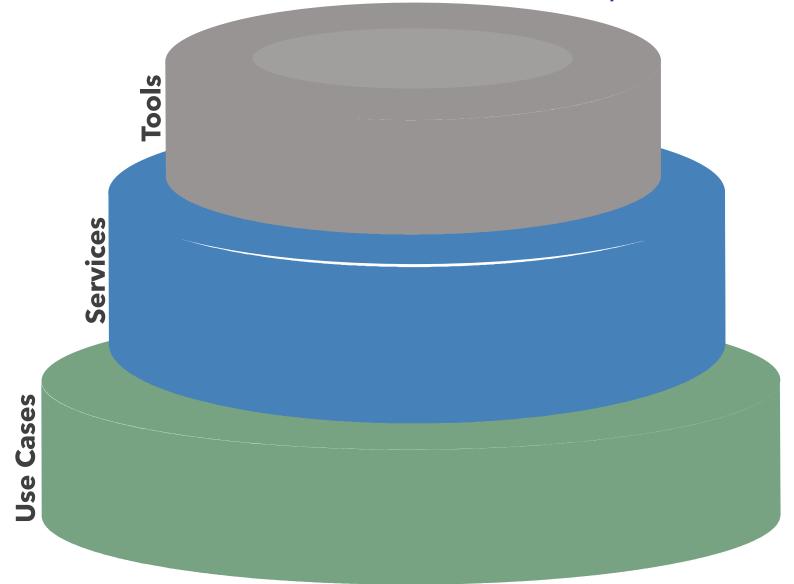






The WHAT:

The Use Case determinations the Service which is operationalized by the Tool











MiHIN Use Cases

- 1. Advance Care Documents
- 2. Active Care Relationship Service
- Admission, Discharge, Transfer Notifications
- Behavioral Health Specially Protected Information
- 5. Common Key Service
- 6. Death Notifications
- 7. Drug Poisoning Surveillance System
- 8. Electronic Case Reporting
- 9. Electronic Consent Management Service
- Exchange Consolidated Clinical Document Architecture (C-CDA)
- Exchange Continuity of Care (CCD)

- 12. Health Information for State, including Immunizations, Syndromic Surveillance, Newborn Screening Hearing Test Results
- 13. Health Provider Directory
- 14. Imaging
- 15. Immunization History-Forecast
- 16. Lab Orders Results, including
 Cancer Notifications, Cancer
 Pathology, Disease Surveillance, State
 Bureau Lab Order-Results, Newborn
 Critical Congenital Heart Disease
- 17. Longitudinal Record
- 18. Medication Reconciliation, including Discharge Medication Reconciliation

- 19. Medicaid Patient Query, Michigan, including Find Patient Records
- 20. Orders and Results Delivery
- 21. Quality Measure Information
- 22. Radiology Studies
- 23. Referrals, including: Tobacco Free
- 24. Social Determinants of Health (SDOH)
- 25. Statewide Telehealth
- 26. Streamline Medical Examiner Reporting of Death Certificates
- 27. Transcribed Document Delivery
- 28. University of Michigan Proprietary
 System for Opioid Overdose
 Surveillance











MiHIN Services

- **ADT Normalization & Conformance**
- 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**
- Health Directory
- 12. Immunization for Schools (also known as 23. Consumer Access)
- 13. Immunization Query
- 14. Immunization Submission
- 15. Lab Conformance and Normalization

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

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











MiHIN Tools



Single platform to: Upload ACRS files; Manage Active Care Relationships; View Care Team & other patient information; View Super C-CDA; View/Download ADTs/CCDs; Access report to support MU attestations; Access Diretto

Customer Types: Health Plans, Providers, Practices, POs, ACOs, Health, Departments, Health Systems, MDHHS



Diretto

web interface supporting sending & receiving Direct Secure Messaging through a web browser

Customer Types: Everyone exchanging data in healthcare: payers, providers, HIEs, POs, PHOs, home health, state governments, even consumers eventually



ReferralsPlus™

A secure closed loop application that enables healthcare & community organizations to send and receive referrals

Customer Types: Medical Practices & Clinics, Hospitals, Home Health Agencies, Behavioral Health, Educational & Human Services, Pharmacists, Community Mental Health & Health Departments, Community Resources, (e.g. Shelters, Food Banks), Physical, Speech & Occupational Therapy, Dental, Health Plans)



AD Vault

Allows submission of Advance Care Documents, Care Plans, Action Plans & other clinical PDF documents into Longitudinal Record

Customer Types: Any organization that has Advance Care Documents, Care Plans, Action Plans & other clinical PDF documents (e.g. Attorneys, Cancer Centers, Community & Faith Based Orgs, HIEs, Home Health, Hospice, Hospitals, Online Healthcare, Outpatient Clinics, PHOs, POs, Senior Living Centers, LTC, SNF, Health Plans



Interoperability

Meld is an open-source, cloud-based healthcare IT sandbox preloaded with fully synthetic HL7[®] FHIR[®] data available in FHIR DSTU2, STU3, and R4. An immersive, vendor-neutral environment that's collaborative across different organizations **Institute and MELD** who can work together to achieve a unified goal of healthcare interoperability.

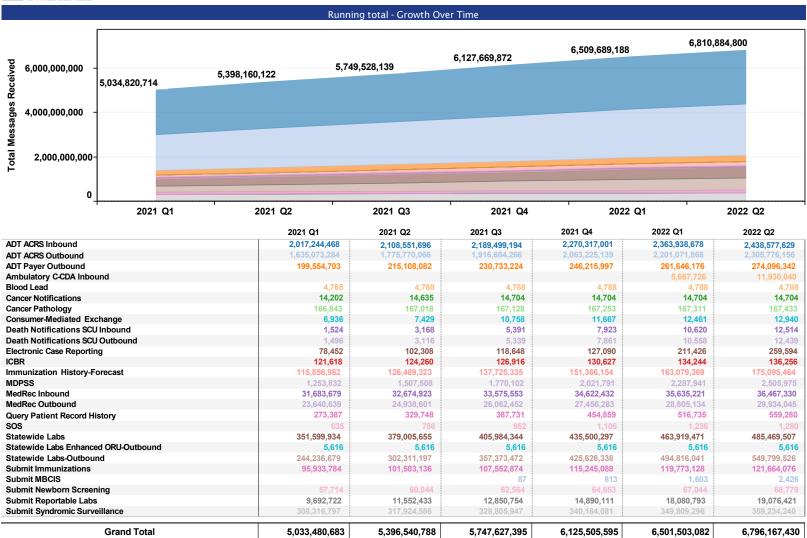


CareConvene

Virtual health platform allowing for greater patient access to quality care via a secure platform; HIE enabled, easily integrated into a providers practice flow, and can provide longitudinal and episodic care information; supports bi-directional communication between patient and provider via text or chat functionality

Customer Types: Providers, Payers, HIEs as a reseller, POs

Cumulative Quarterly Message Totals













Areas of opportunity











Reduce health disparities and underlying drivers of inequities, with solutions to bridge the digital divide, and give residents more control over their own health

Maximize the impact of public- private partnerships by creating a statewide plan that can drive joint investments in interoperable HIT

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

Expand realtime notifications and data exchange to improve coordinated care delivery, follow up, and public health response Enhance the use of data to measure performance and drive decision-making 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

GOAL

Promote Health and Wellness

Objective 1a: Improve individual access to usable health information

Objective 1b: Advance healthy and safe practices through health IT

Objective 1c: Integrate health and human services information

GOAL

Enhance the Delivery and Experience of Care

Objective 2a: Leverage health IT to improve clinical practice and promote safe, high-quality care

Objective 2b: Use health IT to expand access and connect patients to care

Objective 2c: Foster competition, transparency, and affordability in healthcare

Objective 2d: Reduce regulatory and administrative burden on providers

Objective 2e: Enable efficient management of health IT resources and a nationwide workforce confidently using health IT

GOAL 3

Build a Secure, Data-Driven Ecosystem to Accelerate Research and Innovation

Objective 3a: Advance individual- and population-level transfer of health data

Objective 3b: Support research and analysis using health IT and data at the individual and population levels GOAL

4

Connect Healthcare with Health Data

Objective 4a:

Advance the development and use of health IT capabilities

Objective 4b:

Establish expectations for data sharing

Objective 4c:

Enhance technology and communications infrastructure

Objective 4d:

Promote secure health information practices that protect individual privacy



https://www.healthit.gov/topic/2020-2025-federal-health-itstrategic-plan

















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.

THANK YOU!











