



Webinar Series 2020-2021

The Growing Value of MiHIN Amidst COVID-19 and post the GLHC integration

Tim Pletcher, DHA
Executive Director, MiHIN

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Michigan Health Information Network Shared Services (MiHIN)

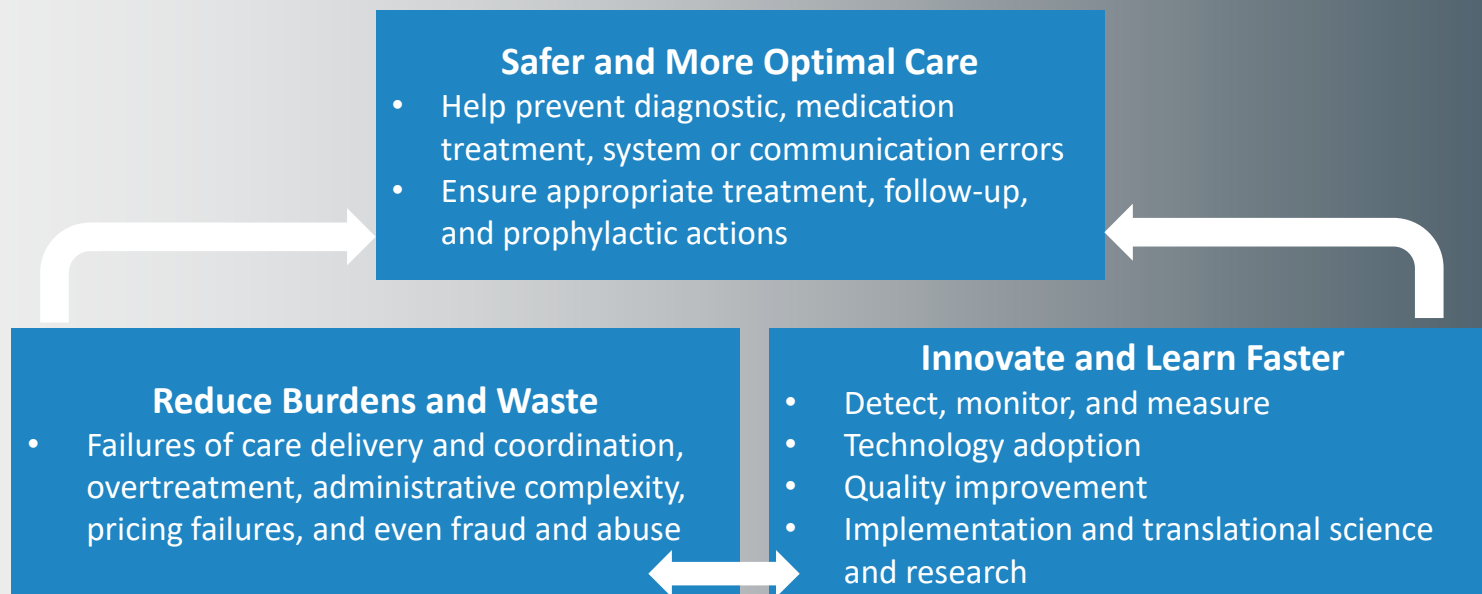
MiHIN is Michigan's **state-designated entity** to continuously improve healthcare quality, efficiency, and patient safety by promoting secure, electronic exchange of health information. MiHIN represents a growing network of public and private organizations working to overcome data sharing barriers, reduce costs, and ultimately advance the health of Michigan's population.

MiHIN is a
**network for sharing health
information statewide for
Michigan**





Benefits of a Shared Infrastructure



Brief History: Michigan Health Information Network Shared Services

2010 - Federal Office of National Coordinator establishes State Health Information Exchange Cooperative Agreement Program

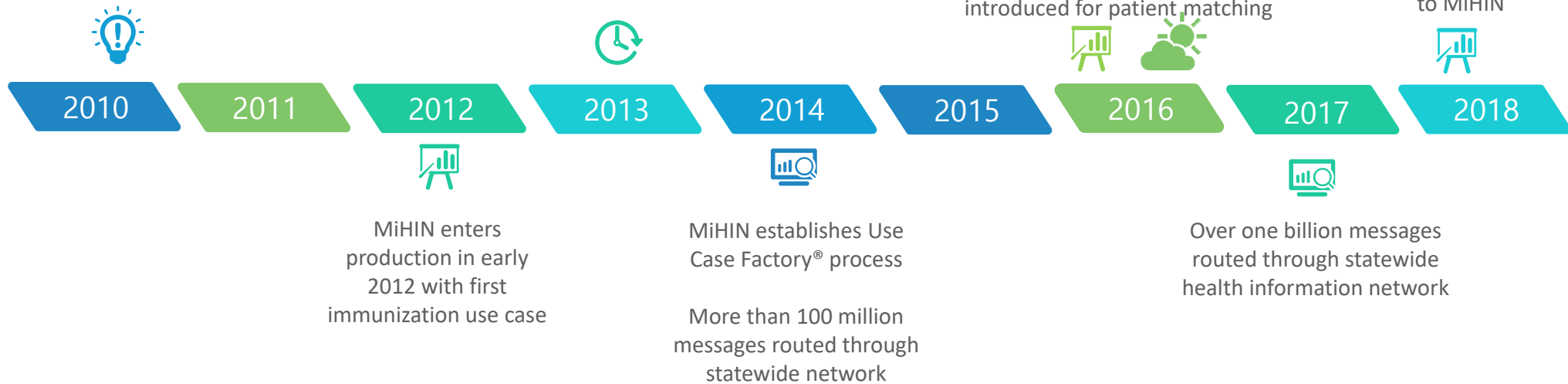
Michigan forms Health Information Technology Commission, which establishes Michigan Health Information Network Shared Services (MiHIN)

Active Care Relationship Service and Admission, Discharge, Transfer Notifications go live in production

MiHIN Migrates to 100% AWS Cloud
97% of admissions statewide sent through MiHIN

Common Key Service introduced for patient matching

149 trusted data sharing organizations connected to MiHIN





2019



velatura
A Public Benefit Corporation



INTEROPERABILITY
INSTITUTE



GLHC
GREAT LAKES HEALTH CONNECT



Better Together

- A multiplier of leaders in Michigan and nationally (both organizations have breadth & **depth** that is enhanced by coming together)
- Increased/improved scale (critical mass) state wide
- A stronger more capable organization focused on solving similar healthcare needs
- Provides for a more diversified funding model
- Similar/compatible core values
- Strengthens alignment with/for TEFCA (as a QHIN and more)
- Maximizes the opportunity to accelerate interoperability
- Further positions Michigan as a national interoperability leader in the country



Better Together

By combining information systems and software, clinical data solutions and customer service, the integrated entity is able to advance the delivery and coordination of healthcare that could not be achieved separately. Much of our product solutions are complimentary while the coming together provides for beneficially synergistic growth.



- Complimentary product solutions
 - Consent management
 - Longitudinal records
 - Referrals
 - Diagnostic Imaging
 - Physical and Behavioral Health Integration
 - Advance Directives
 - Telehealth
 - Social Determinants of Health
- Improved future solutions development
 - Analytics
 - Continuous quality improvement
 - Shared services business model
 - Research
- Increased adjacent market opportunity
 - Disaster Recovery
 - Prisoner re-entry program
 - Claims Clearing House

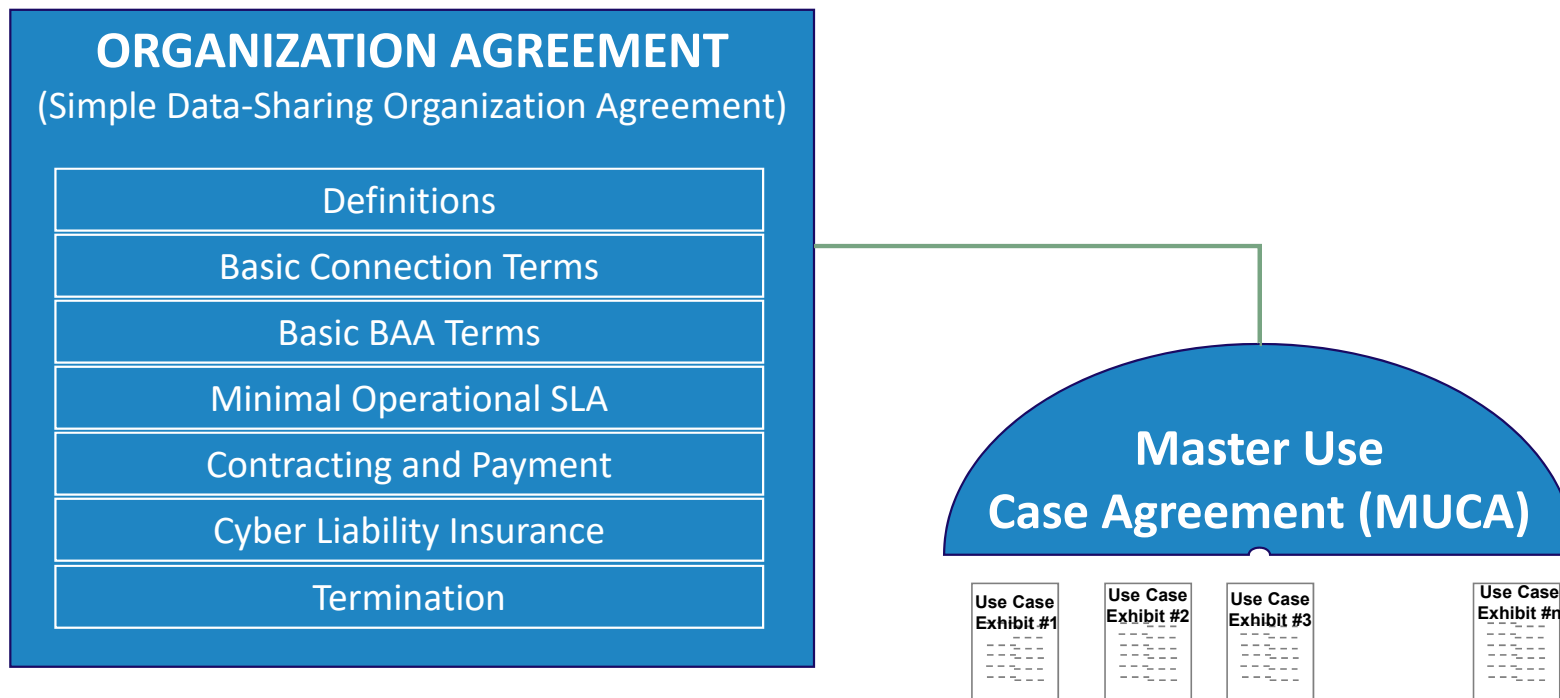
2020



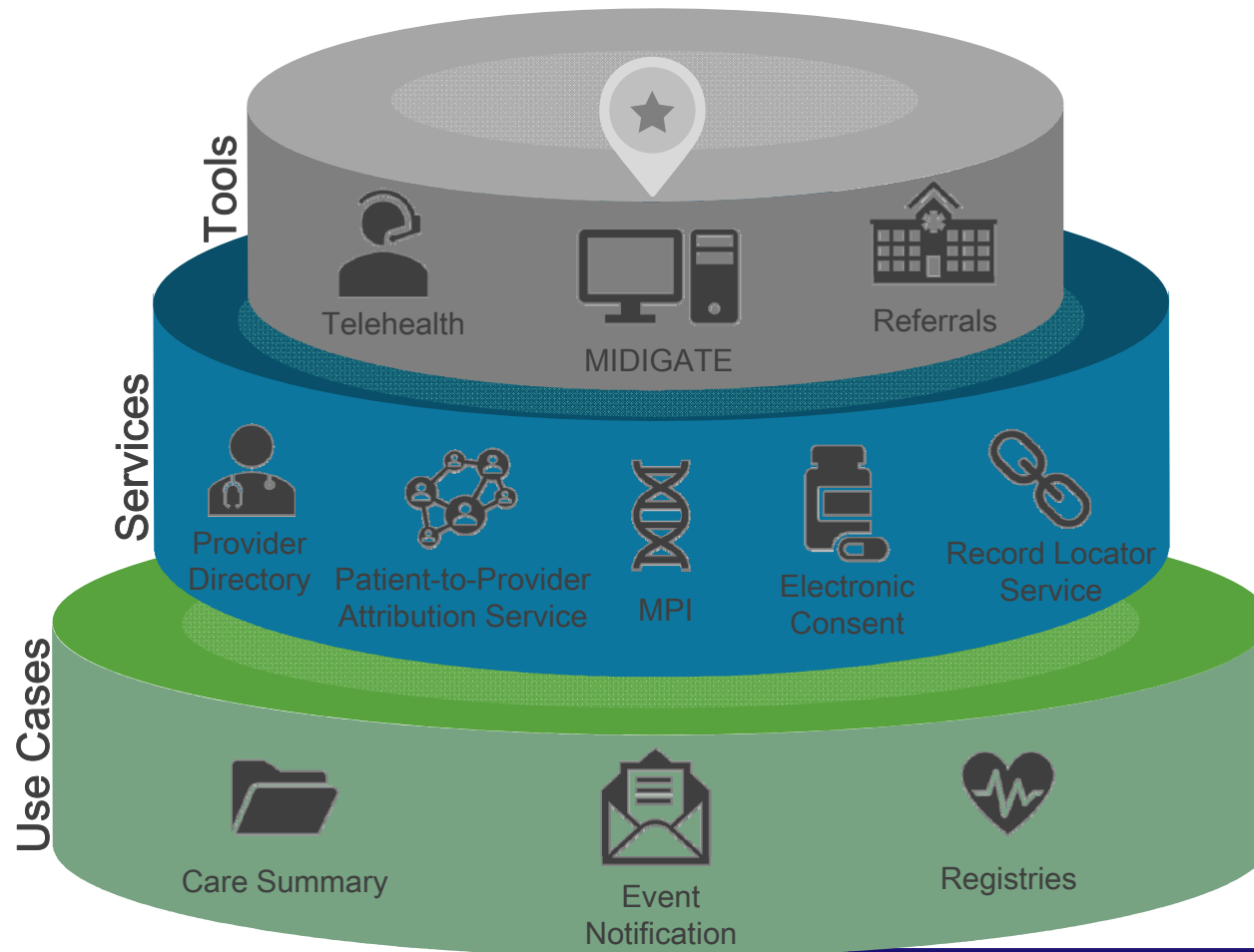
The Big Five Things MiHIN Does

1. Convene people to figure out functional solutions
2. Champion Statewide Use Cases to fairly get data flowing and keep it moving securely among all legitimate parties
3. Operate Shared Services (Health Directory, Active Care Relationships, Security, Legal, Client Matching, etc.) as behind the scenes infrastructure
4. Tools to support daily workflows and coordination
5. Reporting Conformance and Analytics from data lakes and the longitudinal health record

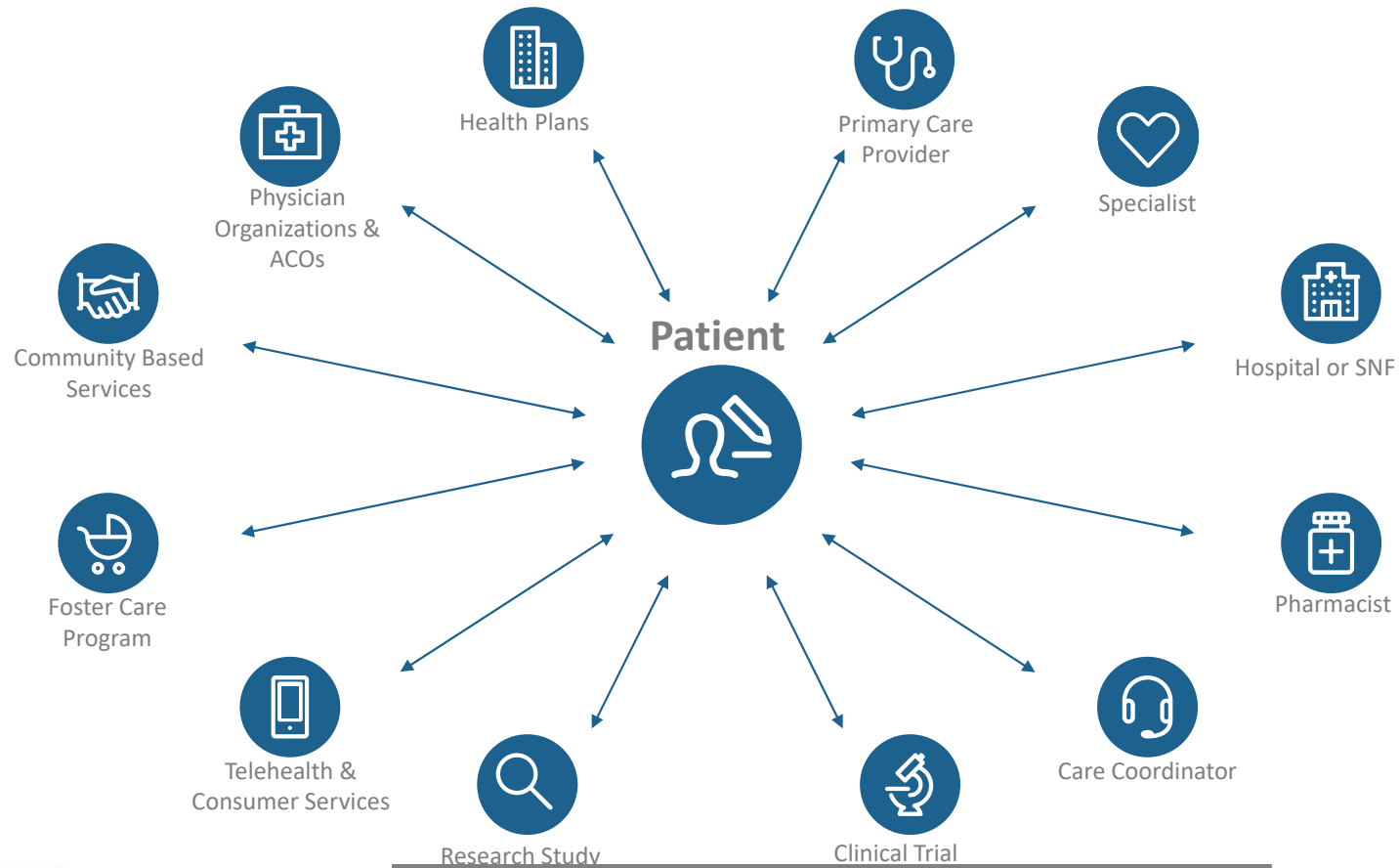
Legal Trust Framework



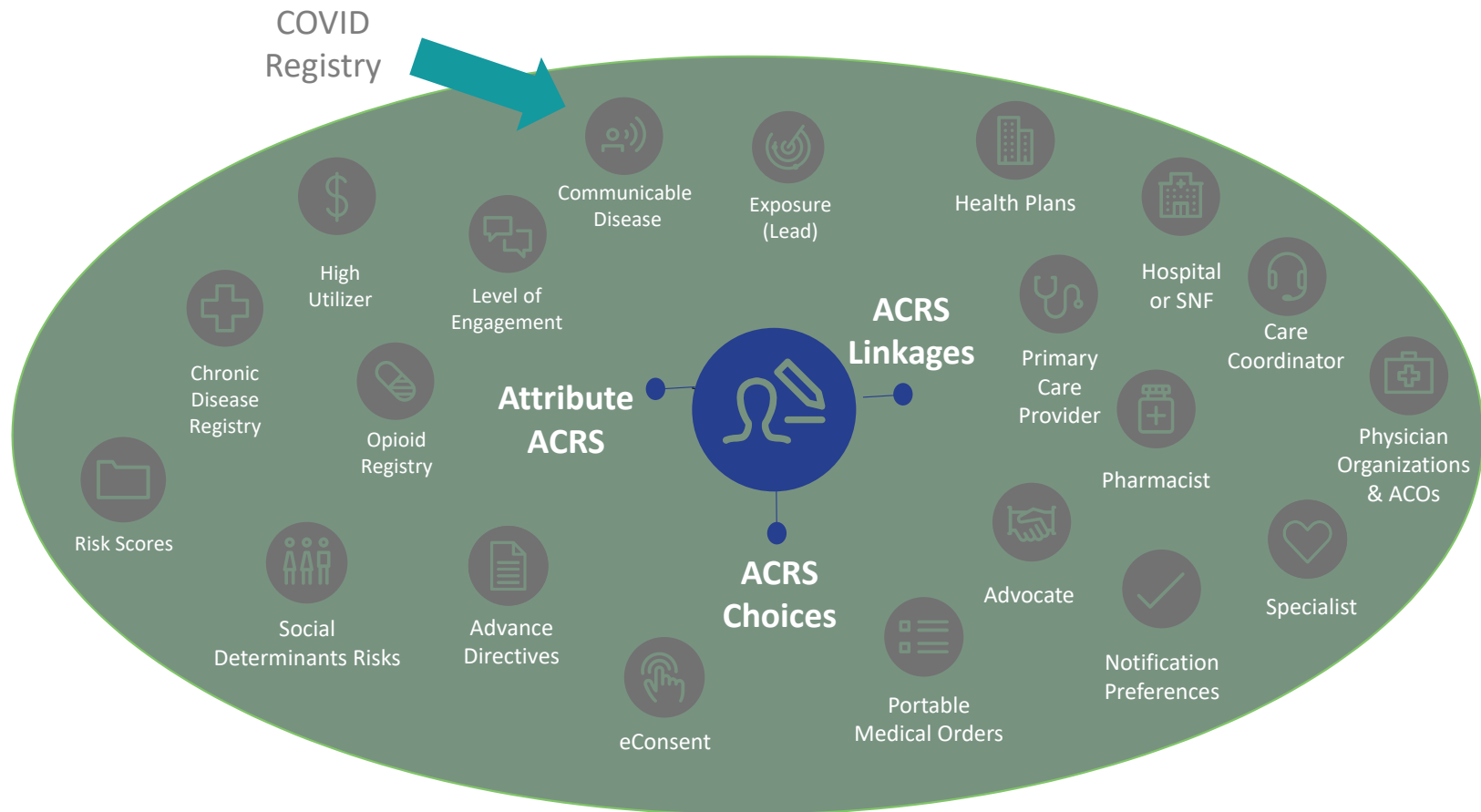
Product Categories



Active Care Relationship Service® (ACRS)



Examples of Active Care Relationships



Integration with External Data Sources for Joint Analytics

Interrogation Tools for Discovery



Web Applications



Electronic Health Record



Consumer & Telehealth Platforms

Directory and Routing Services



Archives & Repositories

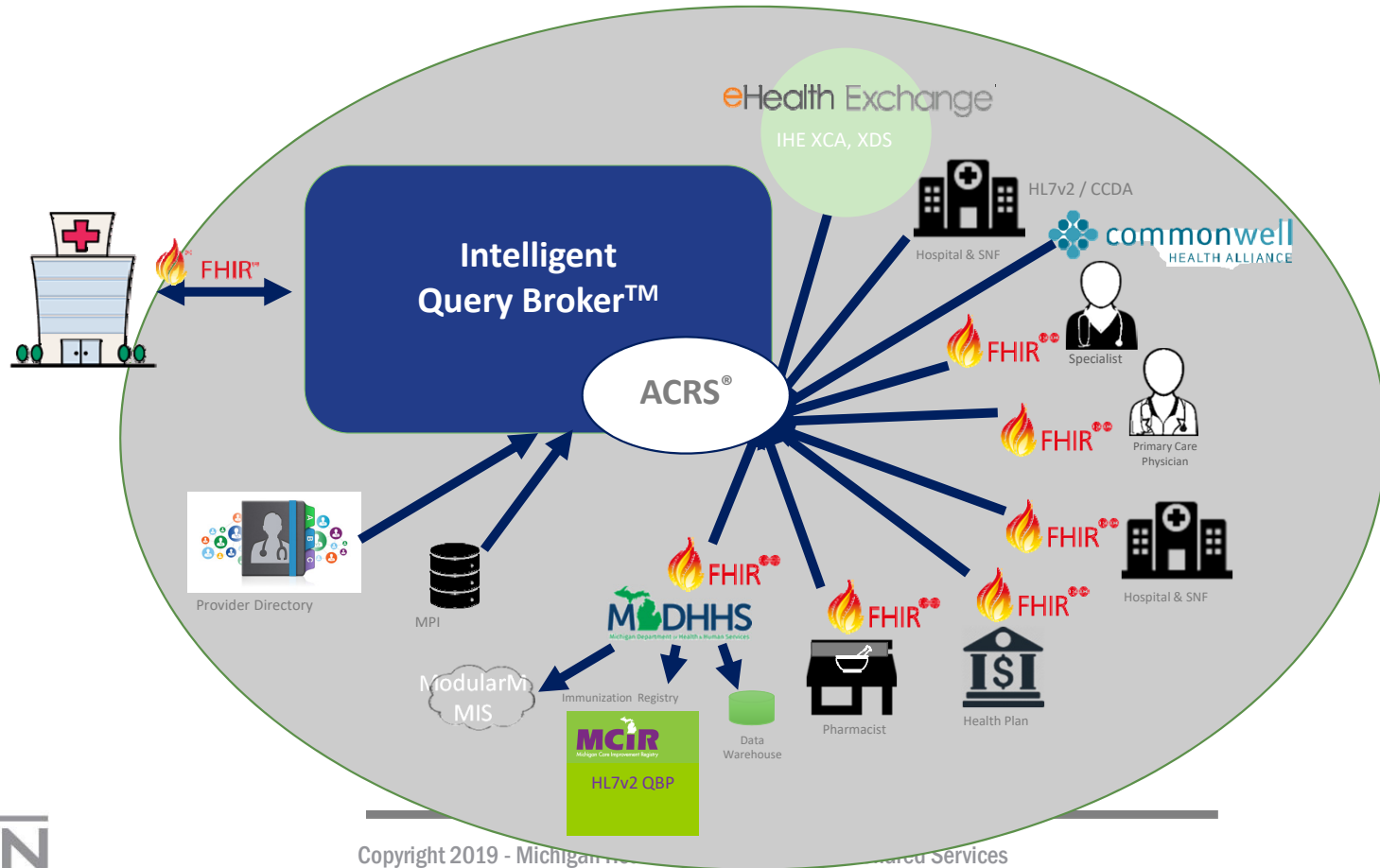


MiHIN Repositories



Other Repositories

ACRS[®] Serves as the Integration and Trust Layer

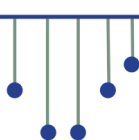


21st Century Cures Act Compliance & APIs

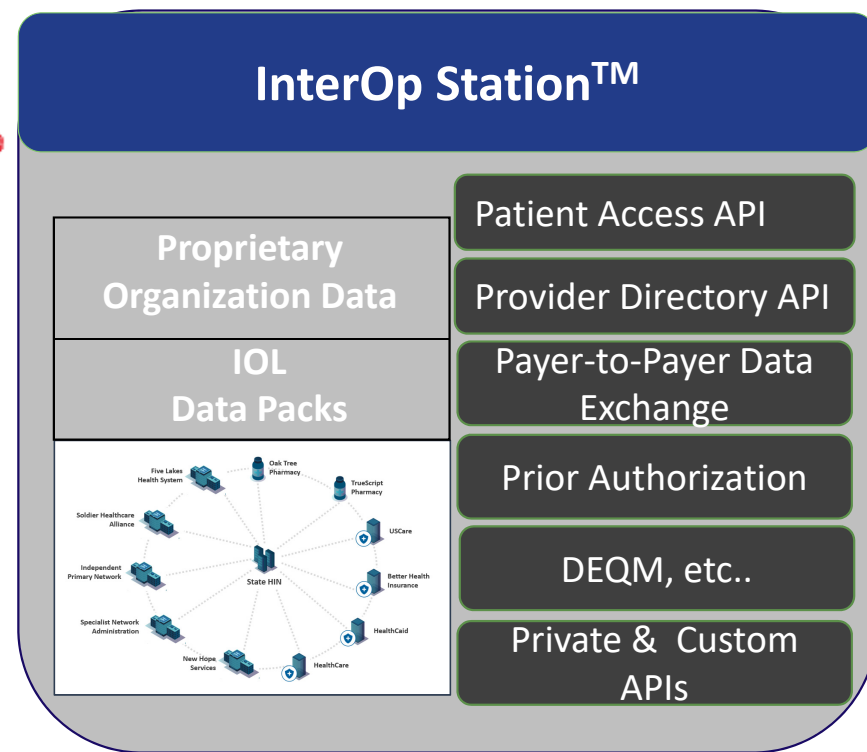
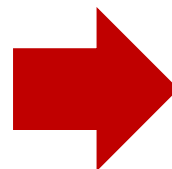
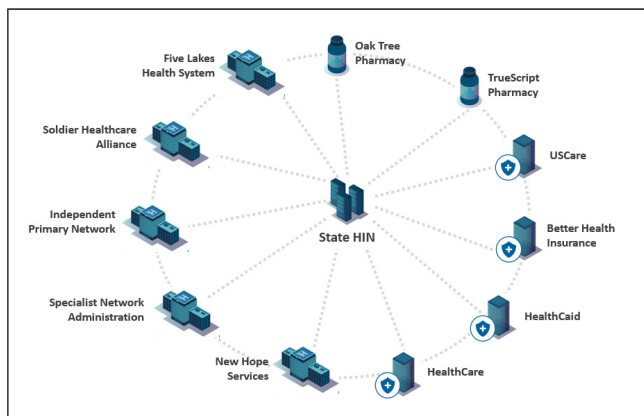


INTEROPERABILITY™

LAND



3rd Party App Development



With MIDIGATE you can...

**Simplify your
workflow**

**Strengthen
patient insights**

**See what providers
share a relationship
with your patient**

**Align all information
from a n encounter in
one location**

**Find provider and
care team contact
info faster**

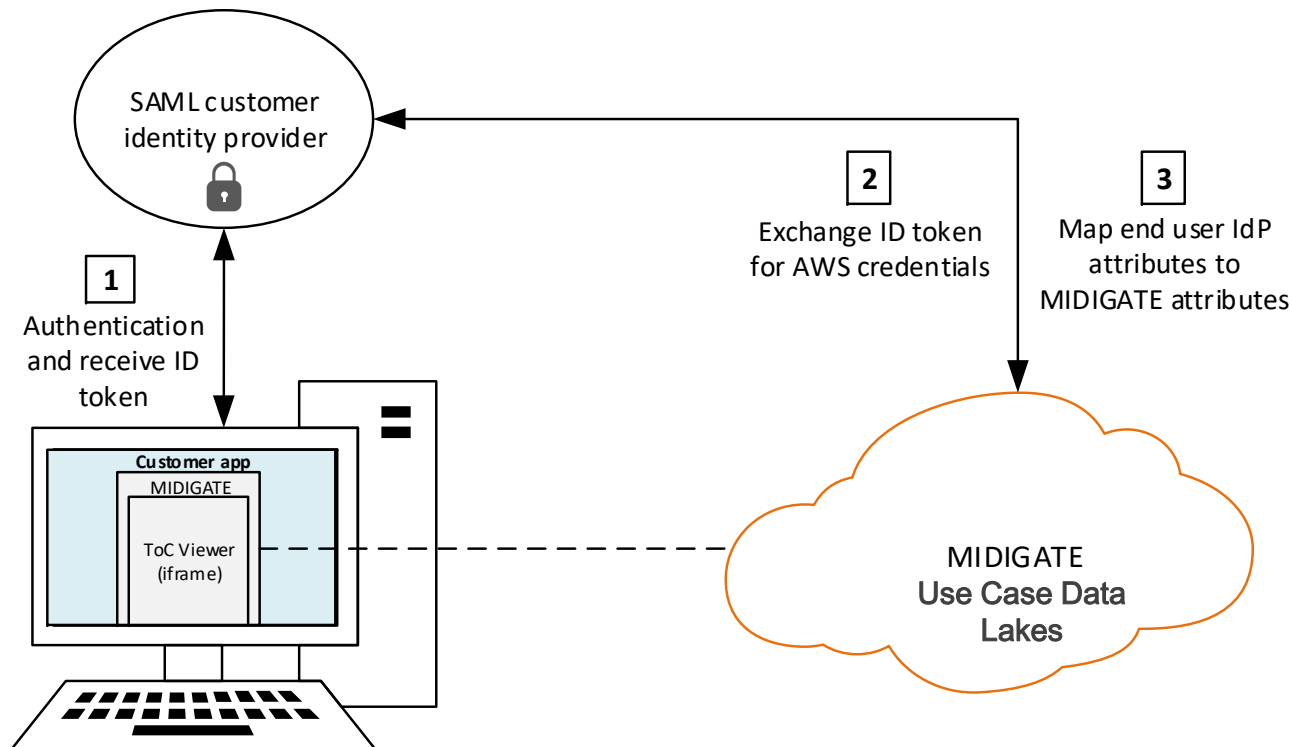
**Login once, via URL or
your EHR, to stay
updated on patient
health events**

**Coordinate care
across multiple
systems**

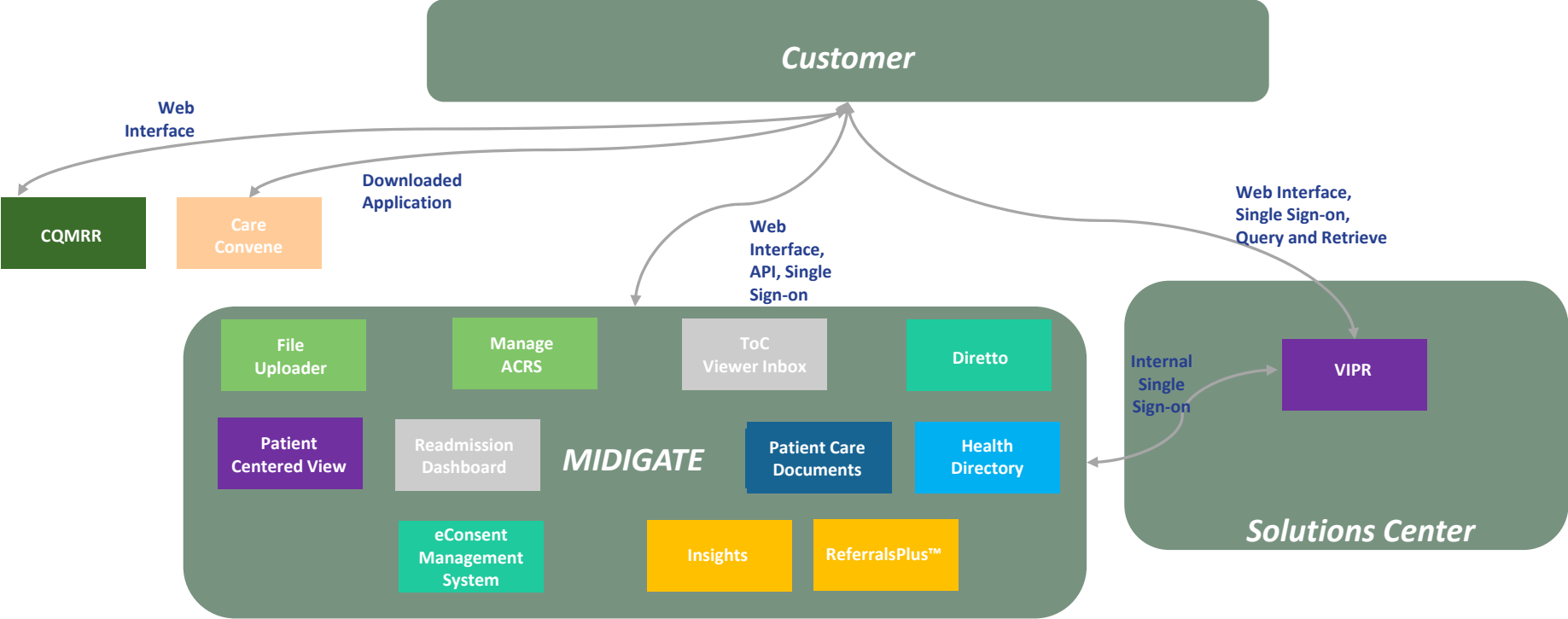


Web-based Clinical Viewer

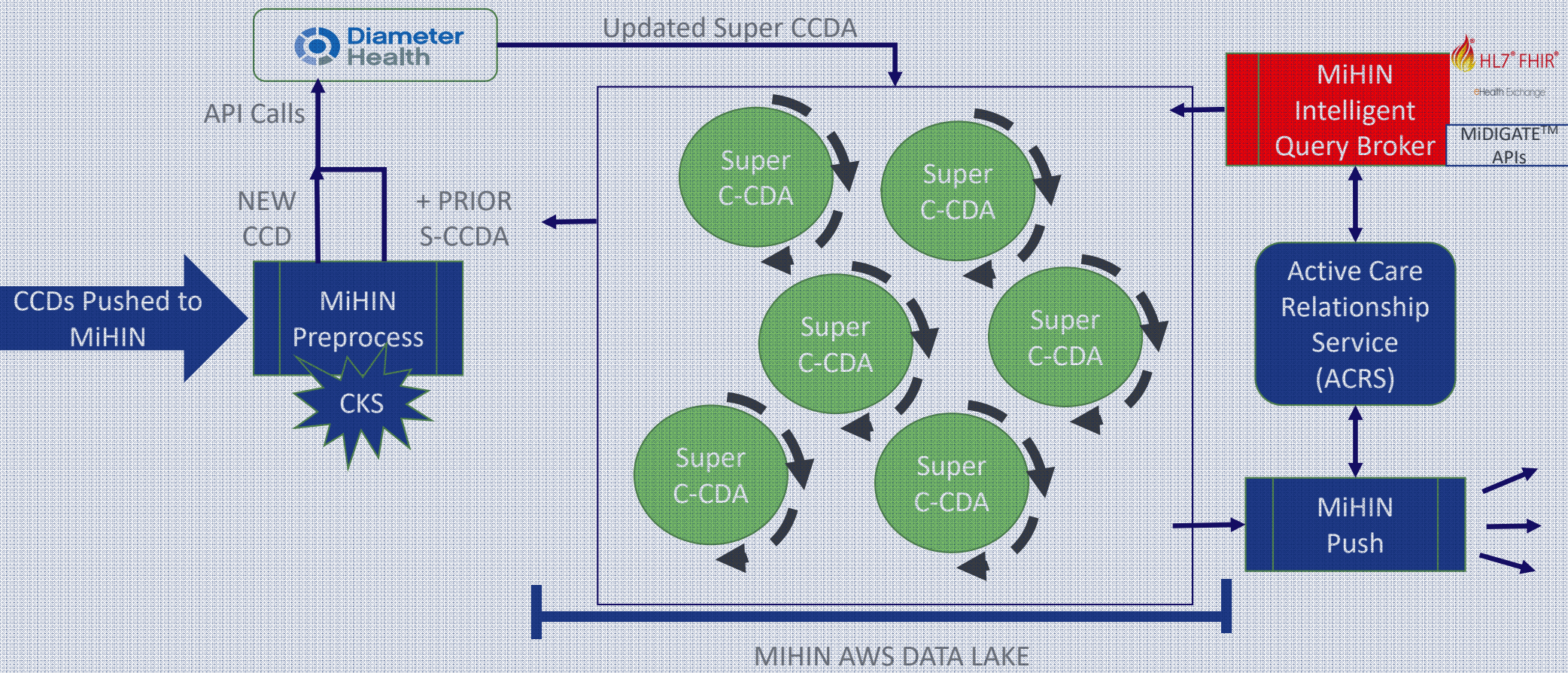
MIDIGATE uses SSO to integrated into Existing Applications



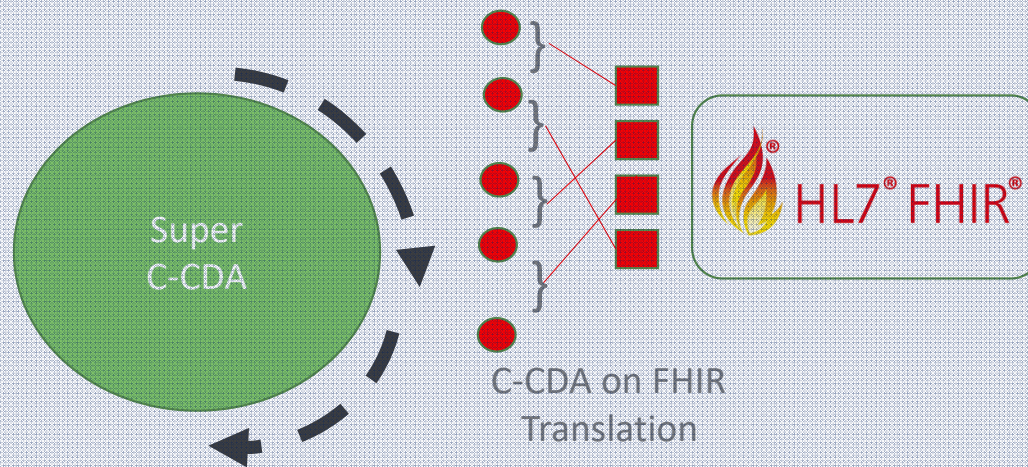
Future State of MIDIGATE & VIPR



Super C-CDA Creation



Elegant Solution to Move To CDA on FHIR

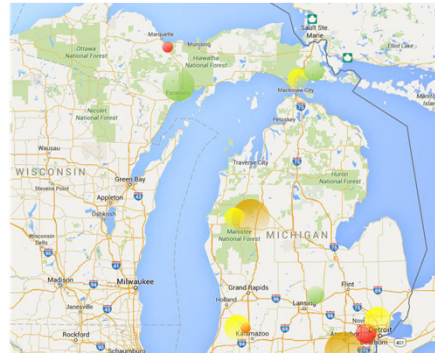


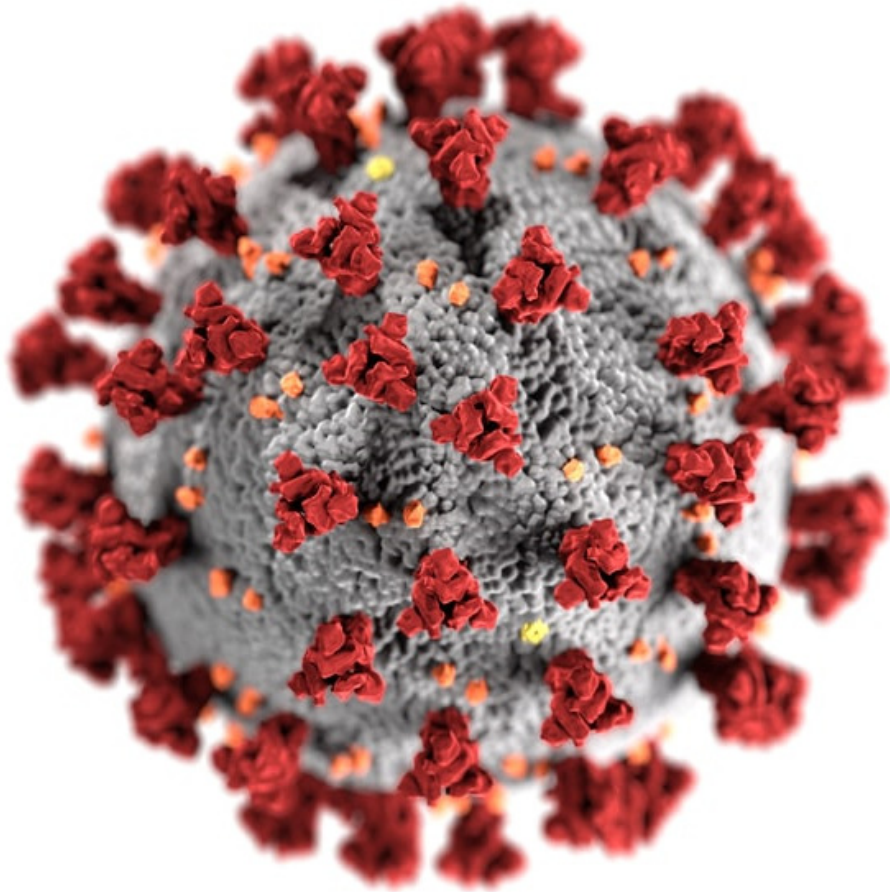
GENERAL COVID SUPPORT ACTIVITIES



Telehealth

Realtime
Analytics &
Capacity
Reporting





State of Michigan (MDHHS)

- ✓ Phase 1: Counts of New Events with 24-Hour Lookback (Current)
 - ✓ ED, IP, ICU admissions and discharges hospital by 4 definitions of “COVID-indicative”
- ✓ Phase 2: Expand to Longitudinal Data (In Progress)
 - ✓ Bed and ventilator use capacity
 - ✓ Follow patients throughout entire encounter
 - ✓

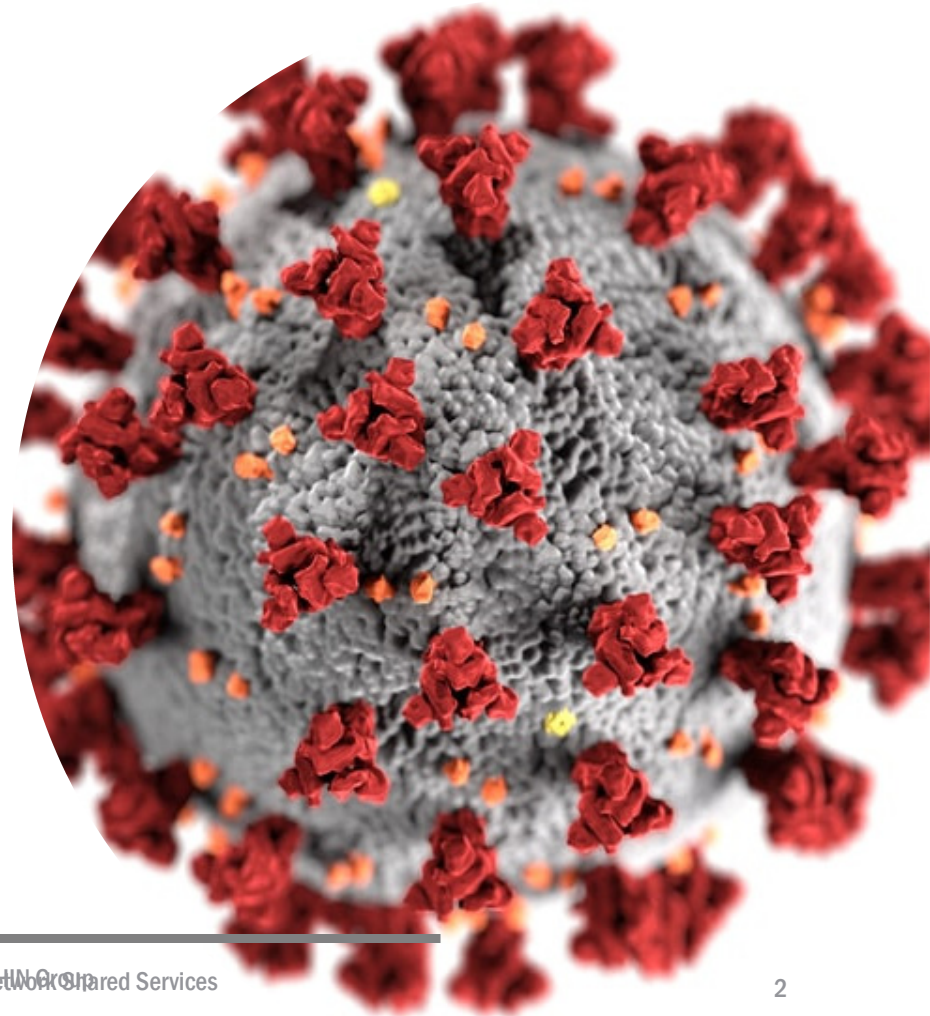
City of Detroit

- ✓ Cumulative messages delivered by MiHIN to each hospital
- ✓ Cumulative messages delivered and unable to be delivered by MiHIN – aggregate total
- ✓ Patient/Payer Association Report
- ✓ Patient Information for Non-Delivered Messages

COVID Results Delivery

COVID Lab Results Delivery to:

- State of Michigan Disease Surveillance System (MDSS DataHub) – ORU messages
 - Results from all labs participating in Disease Surveillance Use Case, plus Statewide Labs Commercial Senders
- Statewide Labs Use Case participants – ORU messages
 - Results from all labs sending to MiHIN
- ACRS participants – ACRS batch files
 - Results from all labs sending to MiHIN
- Detroit Health Department – ACRS batch files
 - Results from BioReference lab, includes health plan affiliations



Telehealth

MiHIN Telehealth Design

- Health Information Exchange plan and infrastructure to support:
 - Care Coordination
 - Transitions of Care
 - Improved Outcomes
 - Communities of Care
 - Public Health
 - Provider initiatives and needs
- HIE now includes Telemedicine modality

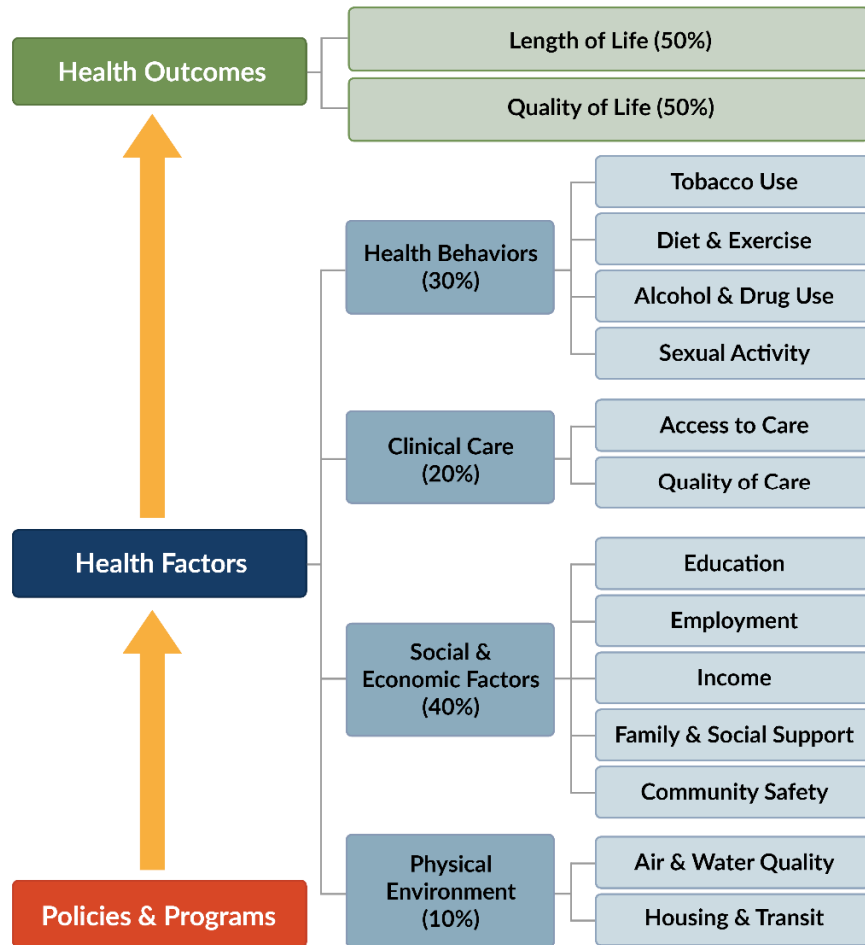
Telehealth: The Use Case

- **Purpose:**

- Incorporate telehealth providers and telehealth modalities into Michigan's healthcare delivery ecosystem by utilizing the state's health information network shared services.
- Drive access; care coordination; increase patient engagement: transition of care; coordinate and align patient-initiated virtual visit requests; and support public health priorities
- Enable telehealth platforms to more fully support and participate in:
 - Care coordination
 - Patient engagement
 - Sending virtual visit information to EHR
 - HIE statewide use cases
 - Statewide Telehealth Registry
 - Promote public health efforts and mandates



Population Health – What is it?



Population health “brings significant health concerns into focus and addresses ways that resources can be allocated to overcome the problems that drive poor health conditions in the population.”

It provides “an opportunity for health care systems, agencies and organizations to work together to improve the health outcomes of the communities they serve.”

*Source: CDC Website, Population Health Training ()

Population Health - what it means for MiHIN

- Significant opportunity to provide value to a diverse group of stakeholders
 - Leverage infrastructure and vast data set to enable stakeholders to take action to improve health outcomes
 - Bring stakeholders together to solve problems that they struggle to deliver value on independently
- A lot of interested parties
 - Health Care Services (Hospitals, POs, ACOs, Clinician offices, Behavioral Health)
 - Payers (Commercial, Medicaid, Self Funded Employers)
 - Community Health Collaborative Organizations
 - Academic/Research Entities
 - Vendor partners
 - State and Local Government
- Impact the health ecosystem on multiple levels
 - Macro
 - Create population level insight to inform health improvement strategy and tactics (e.g. reporting solutions or data query access)
 - Micro
 - Create insight at the individual level to inform next action (e.g. ACRS attributes)

Population Health COVID and more.....

- Population Health Steering Committee
 - Guide development of legal framework and Use Cases to support strategy
- Population Health ACRS Attributes
 - Create situational awareness
 - Establish library of attributes to deploy within multiple MiHIN product solutions
- Chronic Disease Registry
 - Support disease surveillance and inform chronic disease management and prevention efforts
- Readmission Dashboard and Viewer
 - Support hospitals and ambulatory care providers efforts to reduce readmissions
 - Module within MIDIGATE

COVID19 Aligned Approach



Social Determinants of Health Support

DESCRIPTION	COLUMN TWO
Convening Activity	SDoH Workshop Series March-June average 101 stakeholders per workshop representing 49 organizations and 12 sectors
Use Cases	SDOH Use Case- 17 organization sharing, 8 onboarding, more coming
Shared Services	<p>Health Directory-Listing of all the organizations and individuals</p> <p>Active Care Relationship Service</p> <p><u>Linkages</u>-integration layer that maps how people connect to services</p> <p><u>Attributes</u>-Unique high-level indicators for risk</p> <p><u>Choices</u>- tracking of personal preferences and consent</p> <p>Common Key Service-Client matching</p>
Tools	<p>MIDIGATE-Care coordination Platform & Longitudinal Record (VIPR)</p> <p>ReferralsPlus-Community and Clinical close loop referral tool (14K Users, 25K+ Providers, 1257 sites, 57 counties, 180 cities, average of 1500/day, 227,429 referrals in 2019)</p>
Reporting & Analytics	no real SDOH based analytics yet because of no standard usage



Questions?

Thank you!

Q & A

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