SHARED SERVICES: THE BENEFITS OF WORKING TOGETHER

Michigan Care Improvement Registry

Why invest time and resources into shared services

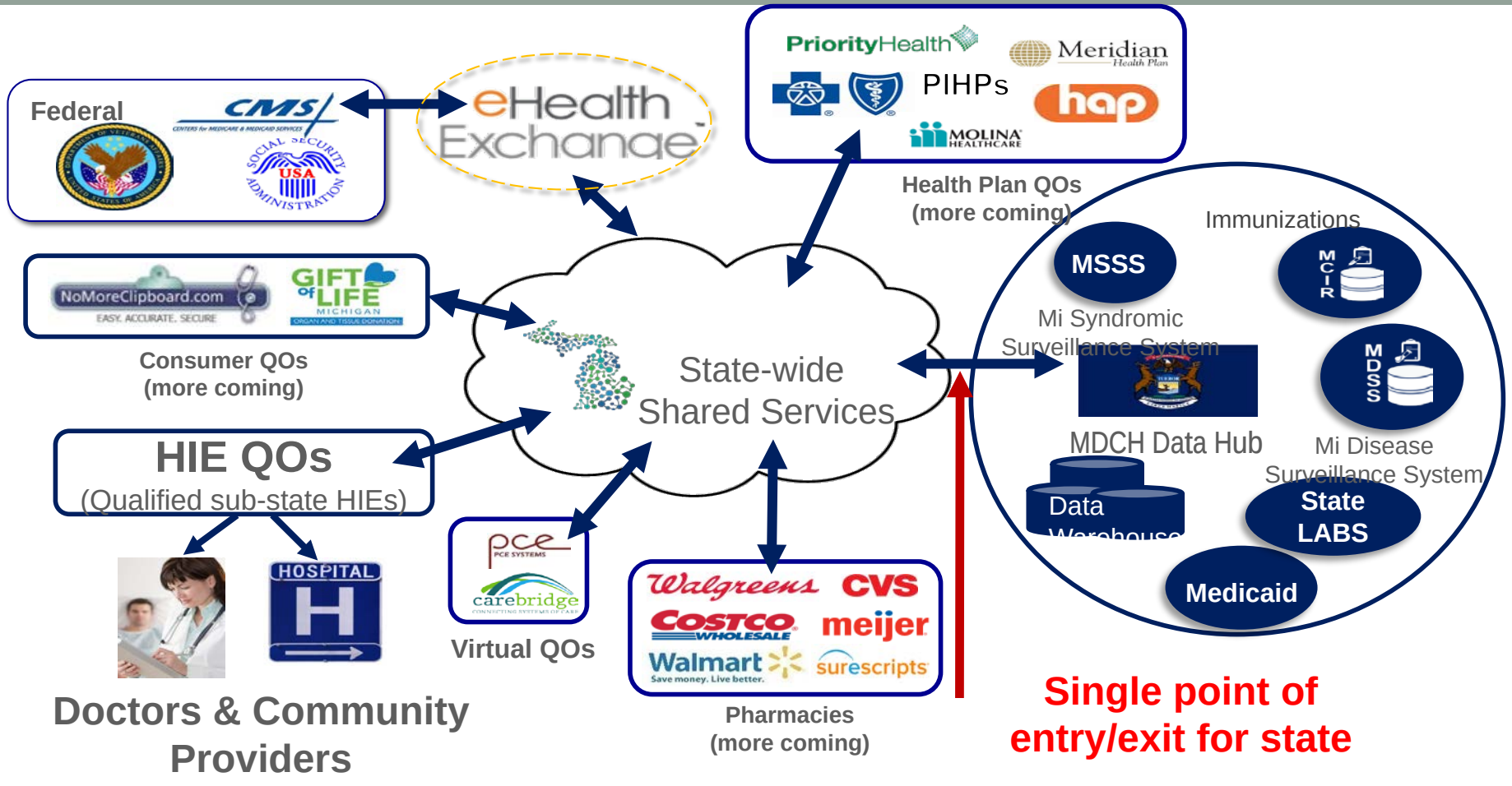
- IIS programs have a lot of experience managing provider data, patient data, data quality and HL7 interfaces.
- Look for opportunities to connect with other services that can benefit your program at low cost or no cost!

Utilizing Shared Services

- Data Hub for HL7 Query
- Healthcare Provider Directory
- Master Person Index
- Address Cleansing

Michigan Health Information Network (MiHIN)

Is a network for sharing health information statewide for Michigan


Federal
CMS
eHealth Exchange
PriorityHealth
Meridian Health Plan
PIHPs
hap
MOLINA HEALTHCARE
Health Plan QOs
(more coming)
NoMoreClipboard.com
EASY. ACCURATE. SECURE
GIFT of LIFE MICHIGAN
Consumer QOs
(more coming)
State-wide
Shared Services
Immunizations
MSSS
MCIR
Mi Syndromic
Surveillance System
MDCH Data Hub
MDSS
Mi Disease
Surveillance System
Data
Warehouse
State
LABS
Medicaid
HIE QOs
(Qualified sub-state HIEs)
HOSPITAL
pce
PCE SYSTEMS
carebridge
Virtual QOs
Walgreens
CVS
COSTCO WHOLESALE
meijer
Walmart
Save money. Live better.
surescripts
Pharmacies
(more coming)
Doctors & Community
Providers
Single point of
entry/exit for state

Immunization Messages

HIE
(QO's, or sub-state HIEs)

Immunization Forecast

Immunization Registry

The Data Hub

- Rhapsody Integration Engine
- Receives VXU Messages from the HIE and directs them to MCIR
- QBP/RSP's are formatted at the Data Hub
  - QBP 2.5.1 V1.5
  - History and Forecast

Get Official Immunization History Profiles

- HL7 VERSION 2.7.1 IMPLEMENTATION GUIDE
- Request Official Immunization History Document -- Z94
- Return Official Immunization
- History Document -- Z92

STATE OF MICHIGAN DEPARTMENT OF HEALTH AND HUMAN SERVICES

As of: November 16, 2016

Official State of Michigan Immunization Record

MCIR ID#: 20006285196 **Name:** Selimos, Monique **DOB:** 03/26/1985 **Age:** 31 Years 7 Months **Gender:** Female

History of Immunizations Given by Series										Status	Accelerated Date	Recommended	Shots Given
DTP/DTaP/DT/Td/Tdap	05/28/85 DTP (historical)	08/07/85 DTP (historical)	10/07/85 DTP (historical)	01/09/87 DTP (historical)	08/24/87 * DTP (historical)	03/24/98 Td (adult) adsorbed	08/26/06 Tdap (adol/adult)	05/20/11 Tdap (adol/adult)		Up-To-Date	05/20/2021	05/20/2021	
Polio	05/28/85 OPV (polio)	08/07/85 OPV (polio)	10/07/85 OPV (polio)	01/09/87 OPV (polio)									
MMR	08/14/86 MMR	03/24/98 MMR								Complete			
Hepatitis B	03/24/98 Hep B (ped/adol)	05/13/98 Hep B (ped/adol)	10/08/98 Hep B (ped/adol)							Complete			
Varicella										Immune			
Hepatitis A	12/15/04 Hep A (adult)	08/26/06 Hep A (adult)								Complete			
Seasonal Influenza	09/22/10 IIV3 (inject)	10/14/11 IIV3 (P-free,inject)	09/19/12 IIV3 (P-free,inject)	10/09/13 LAIV4 Flumist	10/03/14 IIV4 (P-free,inject)	10/20/15 (historical)	10/28/15 * LAIV4 Flumist	10/06/16 IIV4 (P-free,inject)		Complete			
Typhoid	12/15/04 Typhoid (parenteral)												
Yellow Fever	02/06/08 Yellow Fever												
Meningococcal Conjugate	08/26/06 [illegible]V4 [illegible]ctra)												
HPV	[illegible]2/10 [illegible]V4 [illegible]asil)	01/12/11 HPV4 (Gardasil)	05/20/11 HPV4 (Gardasil)							Complete			

* Invalid Dose

** Immunization dates prior to those listed on this record are available in MCIR

Additional immuni[illegible]s dates may not appear on this record. Please ask parent/guardian for additional immunizations from physicians, schools or other programs.

Site Name: MDHHS [illegible]unization Division Site Address: 333 S Grand Ave Lansing MI 48933 Site Phone: (517) 335-8159

Signature: _____ Date: ____/____/_____

OBX 2 and 3

- OBX 2 The value shall be ‘ED’
- OBX 3.1 The value shall be 82593-5
- OBX 3.3 The value shall be ‘LN’
- **********
- Loinc Code 82593-5 is an Immunization Summary
- The value in OBX-5 will be an ED data type that contains a PDF document of an official immunization history.

OBX 5

- OBX-5.1 - The value shall be ‘IIS Name’ (OID DH)
- OBX-5.2 - The value shall be ‘application’
- OBX-5.3 - The value shall be ‘pdf’
- OBX-5.4 - The value shall be a ‘Base64’.
- OBX-5.5 - The value shall be a base64 encoded PDF(where PDF is inserted)

Expectations

- Consumer Access available without the Immunization Program having to authenticate every consumer who would like to access their immunization record.

- MCIR becomes a shared service for EHR Portals, Health Plan Portals, State Consumer Access Portal (MI-Health Portal)

MASTER PERSON INDEX (MPI)

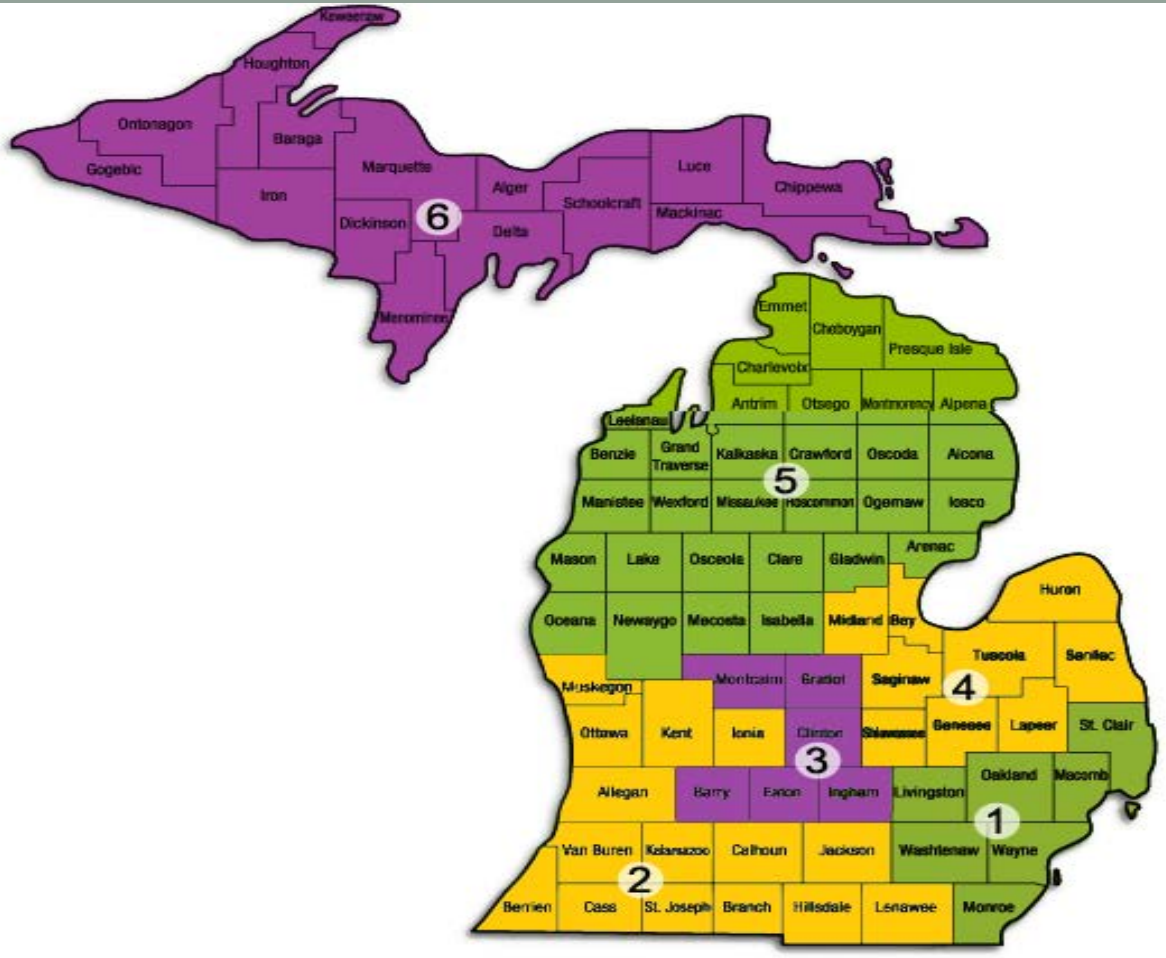
Master Person Index

- Real-time connection in 2014
- First public health program to establish a real-time connection with the MPI
- Only user interface searches connect to the MPI

MCIR / MPI Connection

- The MPI discovered over 14,000 duplicate MCIR patient records.
- MCIR developed a toggle to turn off searches to MPI if the MPI is not available.
- Latest development includes near real-time Add, Update and Deletes in MCIR are sent to the MPI.
- Future project is to develop a mechanism to receive death records from the MPI.

HEALTH CARE PROVIDER DIRECTORY (HPD)


Houghton
Ontonagon
Baraga
Gogebic
Marquette
Iron
Alger
Dickinson
6
Delta
Schoolcraft
Luce
Chippewa
Mackinac
Menominee
Emmet
Cheboygan
Presque Isle
Charlevoix
Antrim
Otsego
Montmorency
Alpena
Leelanau
Benzie
Grand Traverse
Kalkaska
Crawford
Oscoda
Alcona
5
Manistee
Wexford
Missaukee
Roscommon
Ogemaw
Iosco
Arenac
Mason
Lake
Osceola
Clare
Gladwin
Huron
Oceana
Newaygo
Mecosta
Isabella
Midland
Bay
Tuscola
Sanilac
Muskegon
Montcalm
Gratiot
Saginaw
4
Ottawa
Kent
Ionia
Clinton
Shiawassee
Genesee
Lapeer
St. Clair
3
Oakland
Macomb
Allegan
Barry
Eaton
Ingham
Livingston
1
Van Buren
Kalamazoo
Calhoun
Jackson
Washtenaw
Wayne
2
Berrien
Cass
St. Joseph
Branch
Hillsdale
Lenawee
Monroe

2014-2015

- The Immunization Division began researching provider tracking databases available for public health purposes.

- The MCIR database tracks provider enrollment information, and interface information, but it does not track training, site visits, and other support activities offered by the Regional MCIR Staff.

Requirements

- MCIR staff developed business requirements for a new system.
  - System that had robust reporting capabilities
  - Easy to use
  - Online training tutorials
  - Interface with MCIR and State Medical License Database
  - Could support MCIR specific data fields

Healthcare Provider Directory (HPD)

- The HPD functions met the majority of the business requirements defined by the Immunization Program
- Connected to LARA (State Medical License Database)
- Robust ad hoc reporting capabilities
- Providers may access the system and update their information

MCIR Fields added to the HPD

HL7 Information

Generate ESSR Report	☐	HL7 First Submission Date	7/10/2012
SSHIE Name	GLHC	HL7 Last Submission Date	11/8/2016
EHR Vendor	Epic	HL7 R&R Form Received	✓
EHR HL7 Version	2.5.1	HL7 Site Training Date	7/10/2012
EHR Vendor Product		OBRD First Submission Date	2/7/2012
EHR Vendor Version		OBRD Last Submission Date	
HL7 (Interface) Status	PROD	Passed DQA Date	7/1/2012
HL7 Data Type	QBP	Returned to DQA Date	
HL7 (Go Live) Date	7/10/2012		
Total Messages	286		

Summarize information by: Type

Show: All organizations

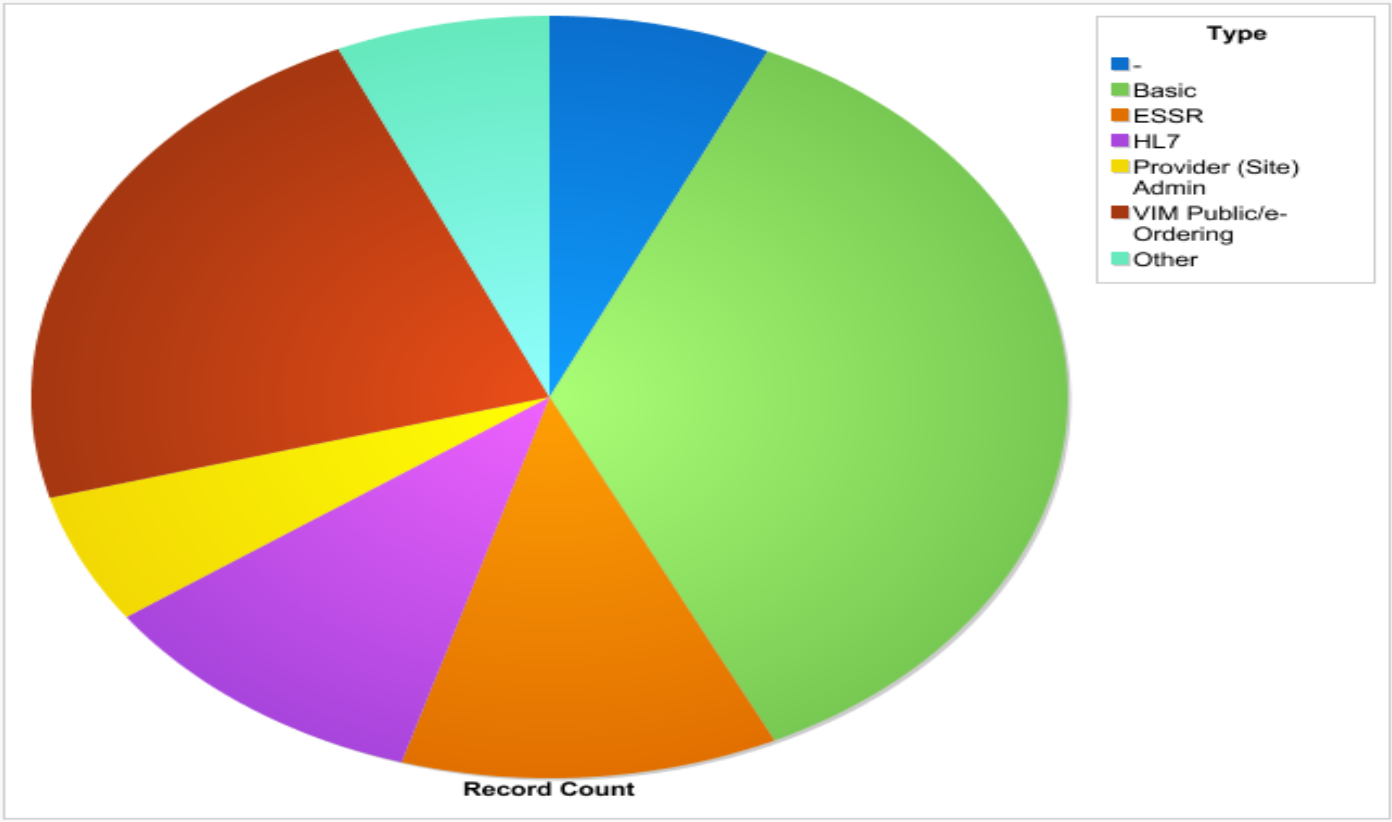
Date Field: Training Date

Range: Current FY

From: 1/1/2016

To: 12/31/2016

Run Report | Show Details | Customize | Save | Save As | Delete | Printable View | Export Details



Summarize information by:
HL7 Data Type

Show
All organizations

Time Frame

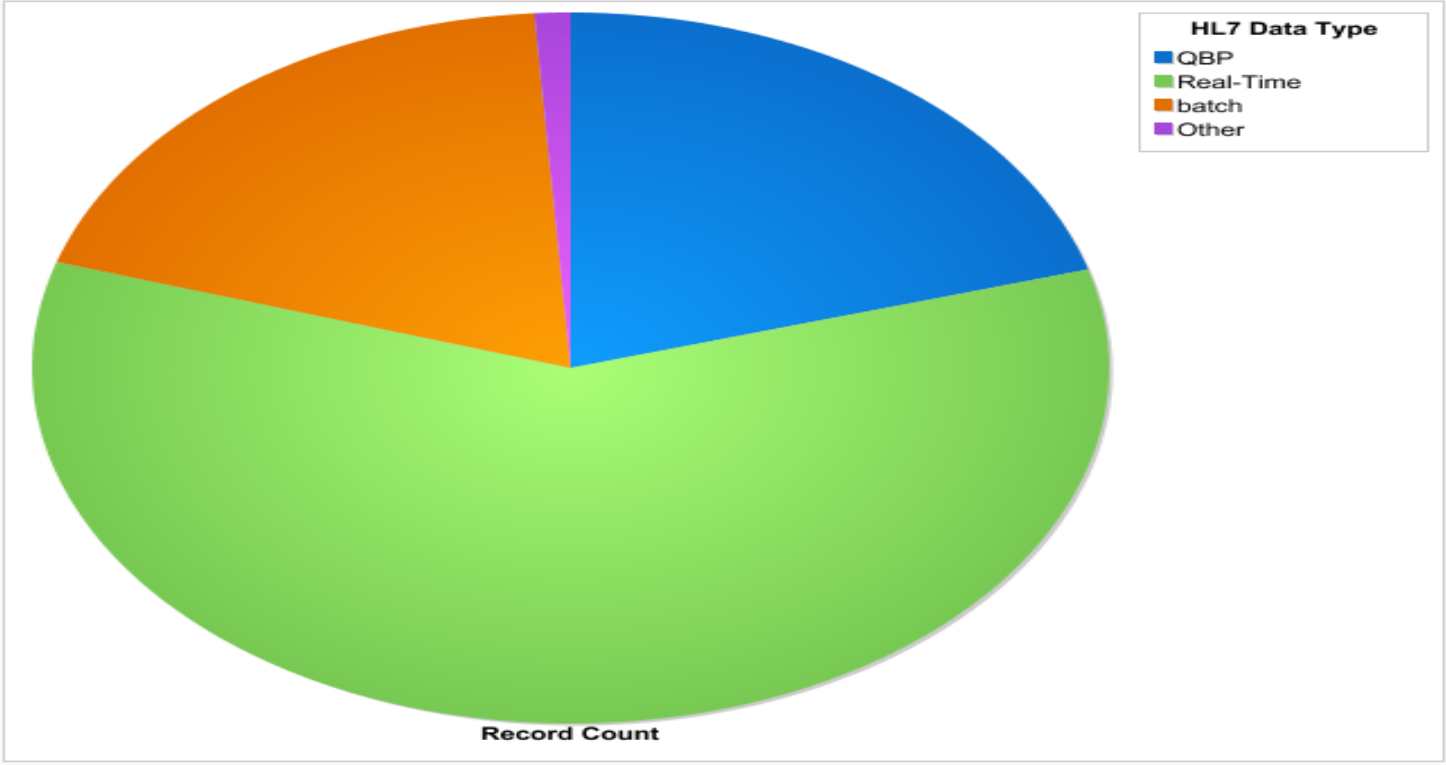
Date Field
Created Date

Range
Custom

From

To

Run Report | Show Details | Customize | Save | Save As | Delete | Printable View | Export Details



Large | Medium | Small

ADDRESS CLEANSING

Address Cleansing

- State of Michigan manages an SAP Address Cleansing Application
- MCIR has a real-time connection to the service
- Any address that has been updated by a user is sent to this service
- HL7 addresses are submitted to the service (pilot phase)

Smarty Streets

Michigan is also connected to Smarty Streets and is piloting a real-time connection for the AIRA Project!

Lessons Learned

- Develop the workflow that works for you and others will follow.
- Share costs with other programs.
- Share your expertise!

Thank You

- Kevin Dombkowski (University of Michigan)
- Rob Savage (CDC)
- MCIR Team (Technical, Regional, State)
- MiHIN Team
- Data Hub Team
- MPHI Team