

# ***DHIN Update for Delaware Health Care Commission***

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***Empowering  
data-driven decisions***

# *Outline*

**Who we are**

**What we do**

**How we're funded**

**Recent and upcoming initiative**

# Introducing DHIN

Established by statute (16 *Del C.* Chapter 103)  
– a **public-private partnership**

A “**public instrumentality**” – IRS term of art  
for a non-state agency established by statute  
to provide “**essential government functions**”

The State-sanctioned provider of health  
information exchange services

Operate as a self-sustaining not-for-profit  
business

Support public and private use of health data

## Statutory Purpose:

Monitor public health

Reduce service duplication and  
healthcare costs

Improve communication and efficiency  
across health care settings

Serve as trusted source of information for  
providers, consumers, and purchasers of  
care

# *A Public-Private Partnership*

## PUBLIC FEATURES

- Size and composition of DHIN Board of Directors defined in statute
- Governor appoints DHIN's Board
- 4 State agencies have permanent Board seats (DHSS, DTI, OMB, Controller Gen)
- State agencies can obtain services from DHIN without going through normal procurement
- DHIN has sovereign immunity from suit
- DHIN is subject to FOIA
- DHIN has authority to promulgate regulations

## PRIVATE FEATURES

- DHIN employees are not State employees
- Majority of board seats are non-government
- Exempt from State procurement law
- Broad authority to develop new services consistent with statutory purposes
- Broad authority to function as a not-for-profit business
- Fee-based services -- we do NOT get an annual appropriation from the State
- State agencies purchase services from DHIN

# What DHIN Does



Delaware  
Health  
Information  
Network

## Health Data Aggregator

- Data from multiple sources is aggregated, enriched, transformed, mapped, and identity-matched
- **“Data is more valuable in the presence of other data”**

## Health Data Services Provider

- *“We make health data useful”* through a range of services wrapped around the data

# Data Curation: Identity Matching

- DHIN receives **over 17,000 messages per hour** from hundreds of data sending organizations across the Mid-Atlantic region
- Each data sender uses a proprietary medical record number (MRN) to identify an individual patient
- Some organizations re-use the same number for different patients
- Some organizations use a new MRN for the same patient under certain conditions
- DHIN uses state-of-the-art tools and algorithms to map each proprietary MRN to a single “LinkID” so that all data about an individual can be grouped
- We currently have **over 5 million unique identities** from all 50 states in the DHIN database

# Data Curation: Mapping and Enrichment

## Data Mapping Example:

### Date Format

6/5/2025

6-5-2025

06-05-2025

June 5, 2025

Jun 5, 2025

2025-06-05

This mapping effort is multiplied over hundreds of fields in the data we receive

## Data Enrichment

- Information not included by one data sender can be added if has been contributed by another data sender
- Example: During the pandemic, DHIN enriched COVID test results sent to Public Health with race and ethnicity data received from other data senders
- Accurate identity matching is a prerequisite for enrichment
- This illustrates the adage, “**data is more valuable in the presence of other data**”

# DHIN's Data Services

*Data made available at the right time, right format, right workflow*

## Deliver

ELR  
SS  
PHR  
Life Ins.  
Legal  
Med Apps

## *Clinical Results Delivery*

Message delivery by several channel options to ordering provider and other destinations requested by data provider

## Notify

### *Event Notification Service*

ADT-based alerts and notifications

## Analyze

Clinical +  
Claims

### *All Payer Claims Database*

Data extracts and reports, analytics services

## *Community Health Record*

Longitudinal record of person-centric data across time, geography and care settings – **viewed over 71,000 times per day**

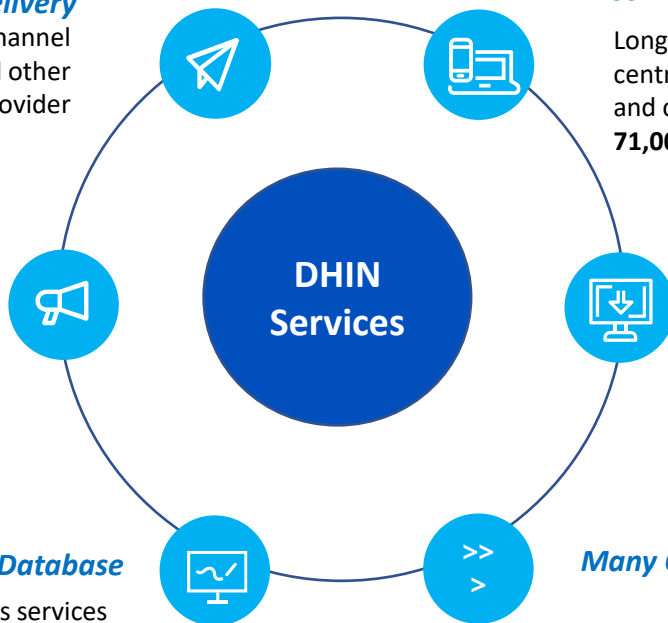
## Display

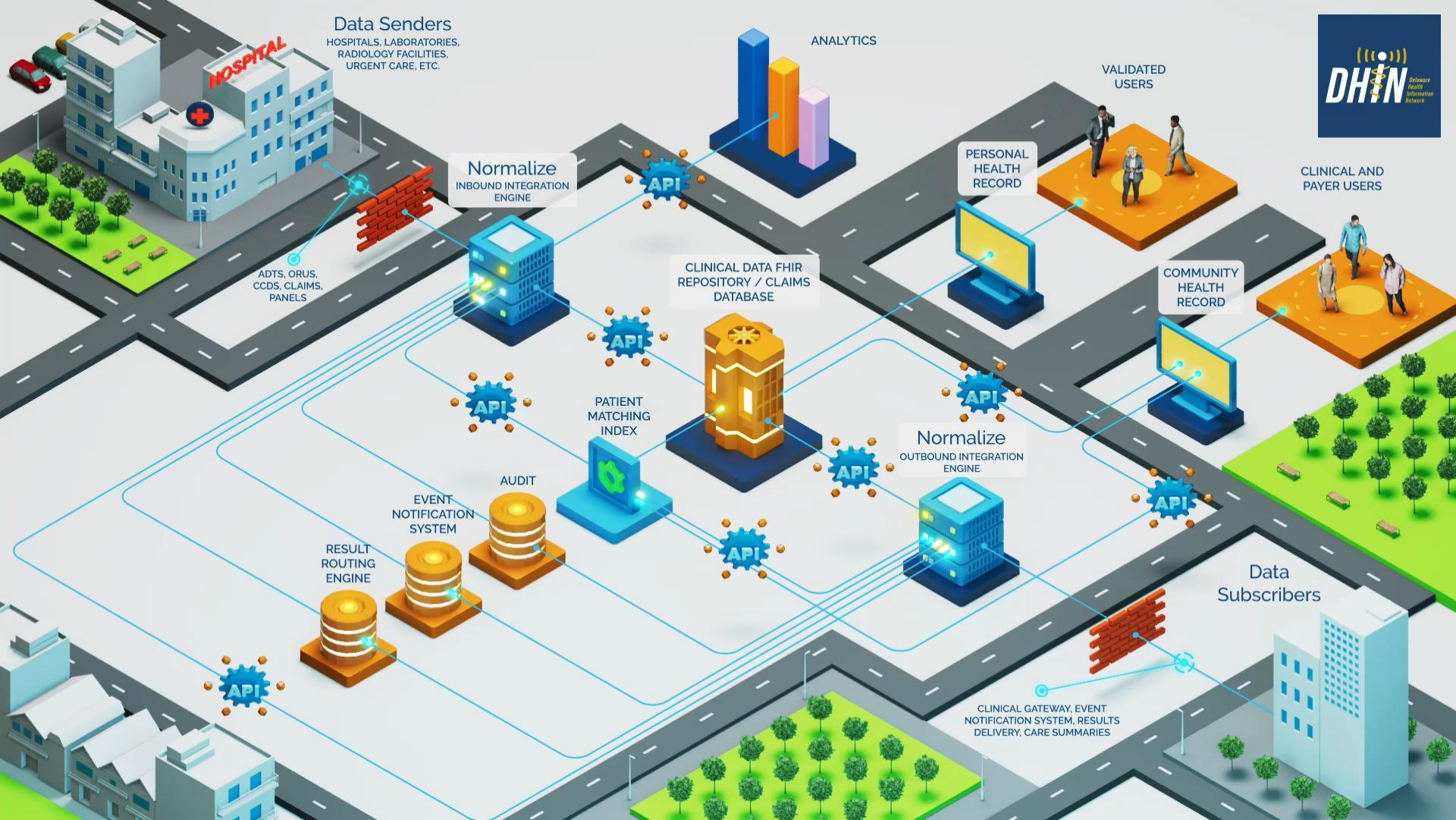
### *Clinical Gateway*

Bulk delivery of data for roster-based cohorts (populations)

## Deliver

### *Many Other Services!*





# ***Analytics: Utility of Claims Data***

## **Cost and Utilization**

- Utilization and Spending for Certain Conditions or Procedures
- Price Transparency
- Price Variation among providers
- Cost-effectiveness
- Low-value care
- Cost of avoidable complications
- Pharmaceutical cost, utilization
- Oral health costs , utilization
- Behavioral health cost, utilization

## **Quality**

- Preventive screenings, immunizations - variation and comparisons
- Continuity of care (transitions in care setting, coverage)
- Readmissions, hospital-acquired infection, preventable hospitalization
- Preventable Emergency Department (ED) visits

## **Coverage and Access**

- Coverage trends over time
- Access to care, including specialty care and behavioral health
- Patient cost-sharing
- Rate review/ rate-setting
- Insurance coverage
- Network adequacy

## **Population and Public Health**

- Chronic conditions prevalence, cost, quality (Diabetes, Asthma..)
- Opioid prescribing
- Connection between environment and chronic conditions
- Epidemiology: trends in the diagnosis of cancers, infectious diseases, behavioral health conditions, etc.

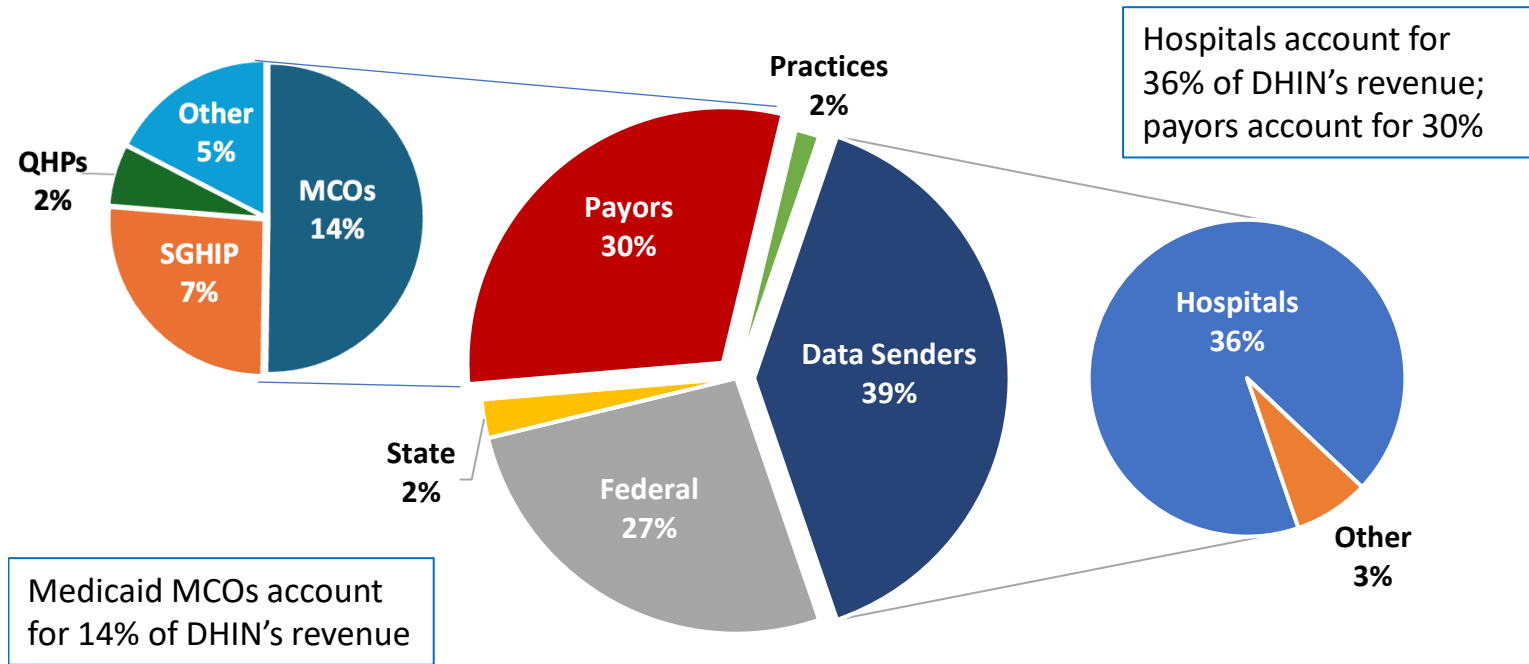
## **Health System Performance**

- Effects of delivery system consolidation on cost, quality, access, equity
- Evaluation of new models of care and payment
- Integration of physical and behavioral health care
- Care coordination for special populations, e.g. dual eligibles
- Prevalence/ trends in alternative payment models

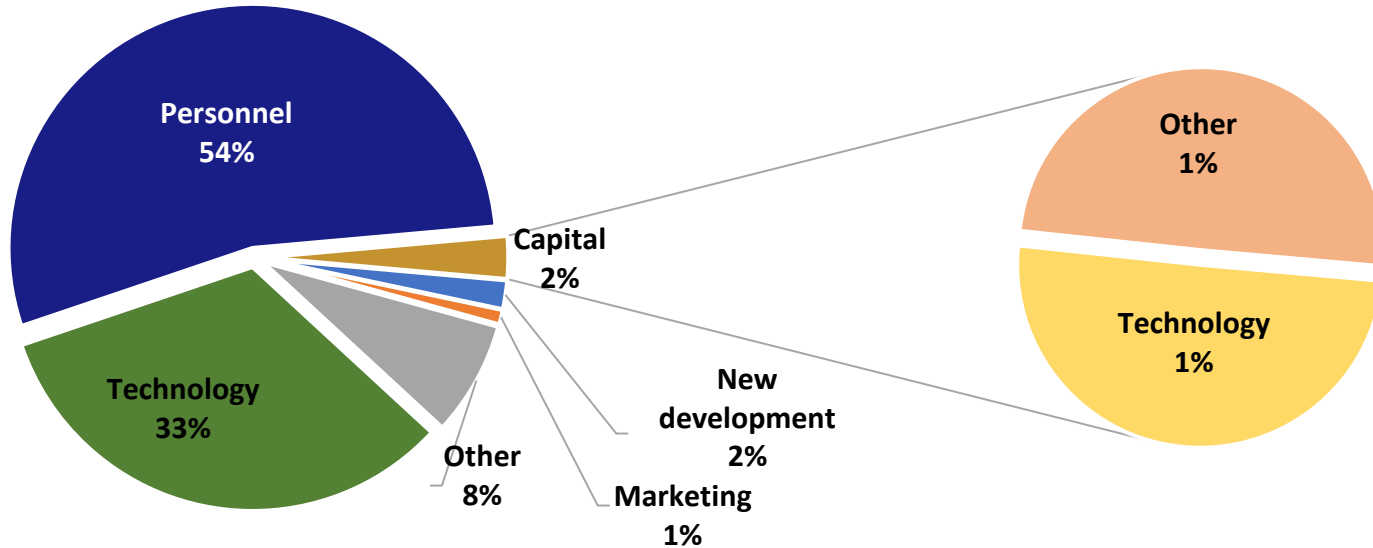
# ***Analytics: Utility of Claims + Clinical Data***

- Analysis of **claims** can answer questions about **cost**
- Analysis of **clinical data** can answer questions about **quality** and **outcomes**
- Most "quality" measures are actually process measure – for example, what percentage of the people who SHOULD have gotten a particular intervention actually DID get it?
- Outcomes should be assessed differently – years of life added, quality of life improved – outcomes that matter to patients
- Only **clinical and claims data together** can answer questions about **value**
- **Value is a function of both cost and outcome** – what did we actually get for the money that was spent, and was it worth the cost?
- **DHIN has clinical data going back to 2007 and claims data going back to 2013 – we have a uniquely rich data set for addressing questions of value**

# FY24 DHIN Revenue Sources



# ***FY24 DHIN Expenses***



# *Recent and Upcoming Initiatives*

- Technology refresh (MPI, CHR, Integration Engine, “tech debt”)
- Numerous projects with individual stakeholders (changes in EHRs, LIS, etc.)
- Onboard a QHIN for TEFCA participation
- Numerous analytics projects
- HITECH certification (gold standard in security best practices)
- Would love to add Behavioral Health/Mental Health and SDOH data – seeking partners
- Teeing up projects for FY26
- Currently wrapping up year 4 of a 5-year strategic plan – selecting a partner to facilitate development of next multi-year strategic plan
- Expect analytics to become an increasingly prominent service line

# *A Health Information Ecosystem...*

**... in which all  
participants  
both contribute  
and receive  
value**





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**Q & A?**