

Health Data for Purpose:

Building & Modernizing a Public Utility of
Health Data Infrastructure

HIE IMAGE ENABLEMENT



velatura
Health Information Exchange

About Velatura

Multifaceted Firm Advancing Digital Health Strategies for Interoperability

Health Information Exchange Network

National HIE network of connected HIEs, providers, payors and other health care stakeholders.

Health Data Utility Services

Cross-sector data sharing services and use cases that demonstrate an efficient digital health infrastructure for counties, states, regions.

Technology Service Provider

Expansive suite of technology platforms, solutions, products and tools that support a robust set of use cases that demonstrate innovation in interoperability.

Professional Services Contractor

Consulting and advisory services are designed to strengthen strategic, sustainability, operational and governance goals of health interoperability stakeholders.

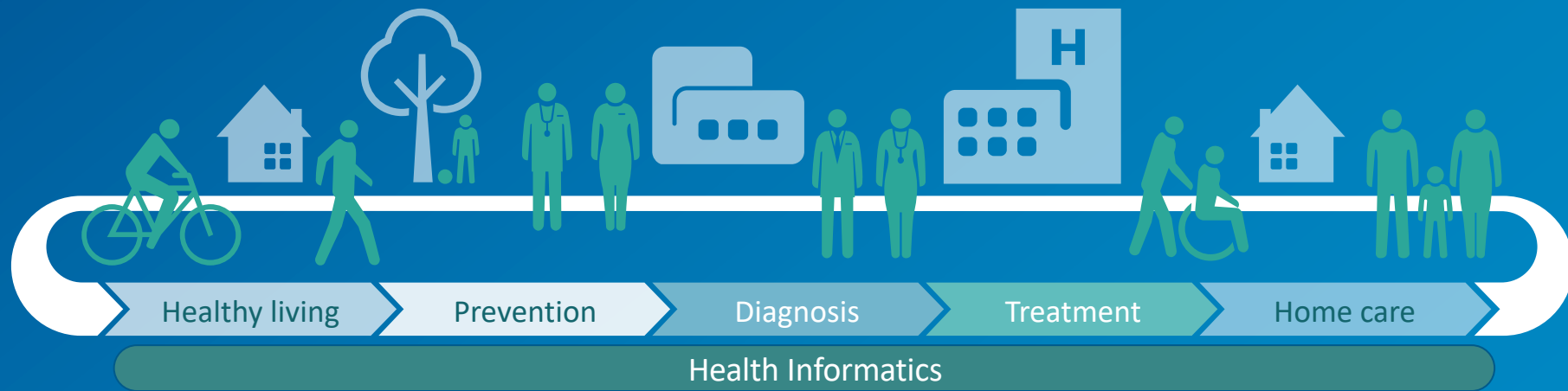
Public/Private Interoperability

Nationwide health information network focused on rationalizing interstate data exchange at national scale through public and private stakeholders that advance emerging use cases in support of urgent public health needs and federal interoperability goals (TEFCA). National ADT notifications system designed to support public health, patient care coordination, person identity, and architected to increase the volume and quality of ADT messages available to public and private participants in support of a more rationalized and scalable infrastructure across the country.

Research & Development

Interoperability Institute provides software technology research and development services to the interoperability community at large. Uniquely positioned as a health information technology innovation incubator that specializes in applied research, software development, informatics, data science, artificial intelligence, machine learning, natural language processing, and solution enablement.

By seamlessly connecting care across the health continuum, we aim to improve outcomes





At Philips, we strive to make the world healthier and more sustainable through meaningful innovation

Our goal is to **improve the lives of**

2.5 billion
people a year
by 2030

Our partnership



- Engaging stakeholders • Optimizing existing investments • Expanding Health Data Utilities •
- Improving clinical workflows • Innovating for the future •

Expansion of HIEs into Health Data Utilities

HIEs that serve as a Health Data Utility enable advancements in high quality patient care, cost savings and efficiencies by providing critical, reliable and secure solutions for the interchange of any digital health information within the health care ecosystem.

HDUs will provide meaningful services, transformations and advancements offered by the foundation HIEs have built and now evolved to serve as a tool to achieve superior public health outcomes and use health information as a key component to transform healthcare.



A robust Health Data Infrastructure drives:

Equitable Care



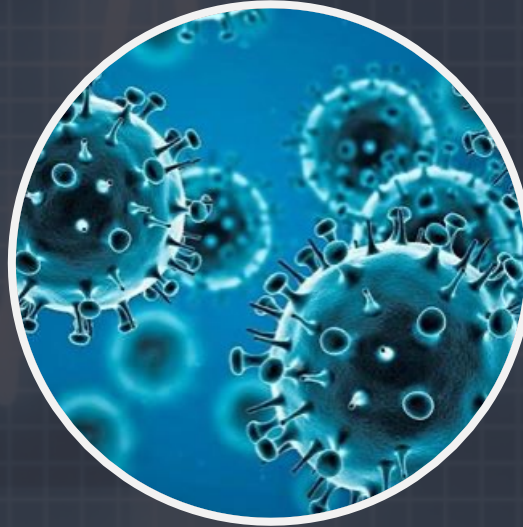
All patients deserve access to high quality comprehensive care, driven by care providers who have the information they need at their fingertips.

Positive Health Outcomes



Access to a wholistic view on patient medical history leads to better informed diagnosis, care planning, and care collaboration during patient transfers and complex cases

Disaster Preparedness



Displaced populations and emergency patient transfers require data to move in real time, giving care providers information they need at the point of care

Innovation



Data to drive insights for healthcare innovation at scale.
Collaboration between leading healthcare institutions, centered around patient care

HIE Image Enablement



A solution that **brings together imaging data from all providers within a regional, state, or multi-state network to support cross-enterprise clinical imaging workflows**



HDU Core Components That Advance Image Exchange

Health Data Utility Core Functions

Data Connector and Hub: a single community connection to bridge and connect all health care providers, payors, stakeholders and other HIEs. Serves as an unbiased community data trustee of health information.

Data Aggregator: Provides a comprehensive electronic patient record across multiple data sources. Aggregates the data collected from the disparate data sources and generates data output and payloads that are meaningful and relevant to health care stakeholders and policy makers.

Patient Identity: single source of truth in patient identity

Data Outputs: dashboards, data visualization, reports, analysis, payload of data sets, analytics, quality enhancement recommendations, real-time information at point of care for improved clinical decision making



How we partner with HIEs



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Collaborate on funding strategies

Philips team works strategically in each market to help HIEs and their stakeholders secure State and Federal grant support

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Engagement with Provider Organizations

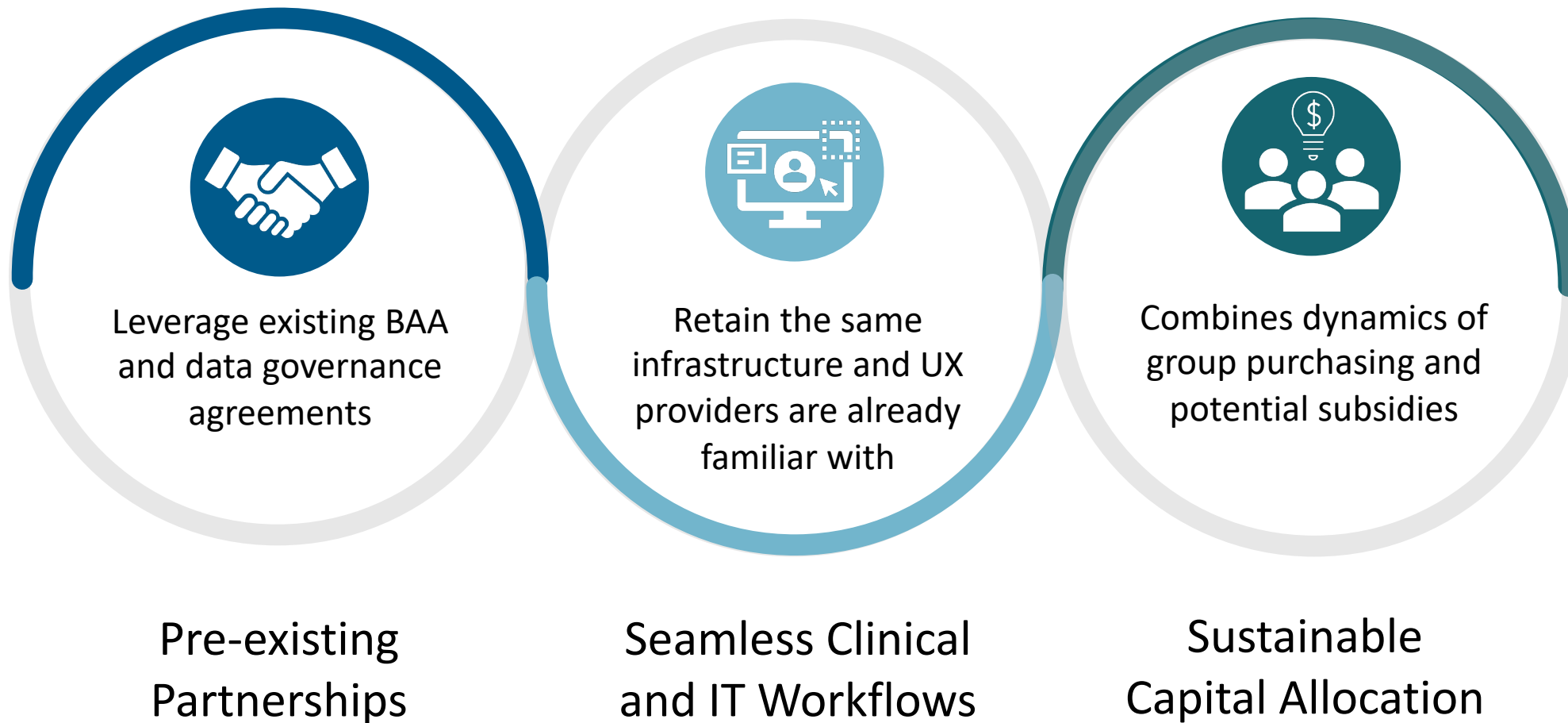
Philips serves over 5,000 hospitals in the US – and we position HIEs as a critical element of their Enterprise Imaging strategies

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Innovative Technology

Integrates into existing infrastructure to provide seamless clinical and IT workflows

Benefits to HIE partnership



Ambulatory care example use cases



Access to Priors for Diagnosis Process

Access to all comparison studies enables more conclusive interpretation, leading to more definitive care.



Care Collaboration

When multiple physicians are required to develop and manage a care plan. Very common in pediatrics, oncology and tumor boards



Specialist Referrals

Provides specialists access to studies for telehealth follow up visits and data sharing with local hospitals. Remote access saves patient's time, money and inconvenience and provides for more efficient use of specialist's time.

Emergent care example use cases



ED Transfers

Emergency department transfers patient to another location, where images are needed



Stroke Intervention

Local hospital shares studies with stroke center for treatment guidance and prepares stroke team if patient transfer is required



Trauma Intervention

Local hospital shares studies with trauma center for treatment guidance and prepares trauma team if patient transfer is required



Aortic aneurism

Confirm diagnosis with outside imaging specialist. If definitive care is not available at the current location, studies are sent ahead of patient to mobilize care team



Disaster Response

Access to prior images and reports at overflow sites and field hospitals during natural disasters and viral outbreaks

Delivering on the Quadruple Aim



Improved patient experience

Less time onsite, reduction in radiation exposure, seamless care journey, not responsible for managing data



Improved staff experience

Greater access to relevant patient history, with less administrative burden



Better health outcomes

Assists first-time-right diagnosis, and management of incidental findings. Supports remote data access for communities facing health disparities and in response to national disasters



Lower cost of care

Eliminate CDs, reduce clinical workflow inefficiencies, reduce costs of repeat procedures

How does HIE Image Enablement work?



Central registry of available studies



Patient matching based on eMPI



Discovery via HIE portal or PACS



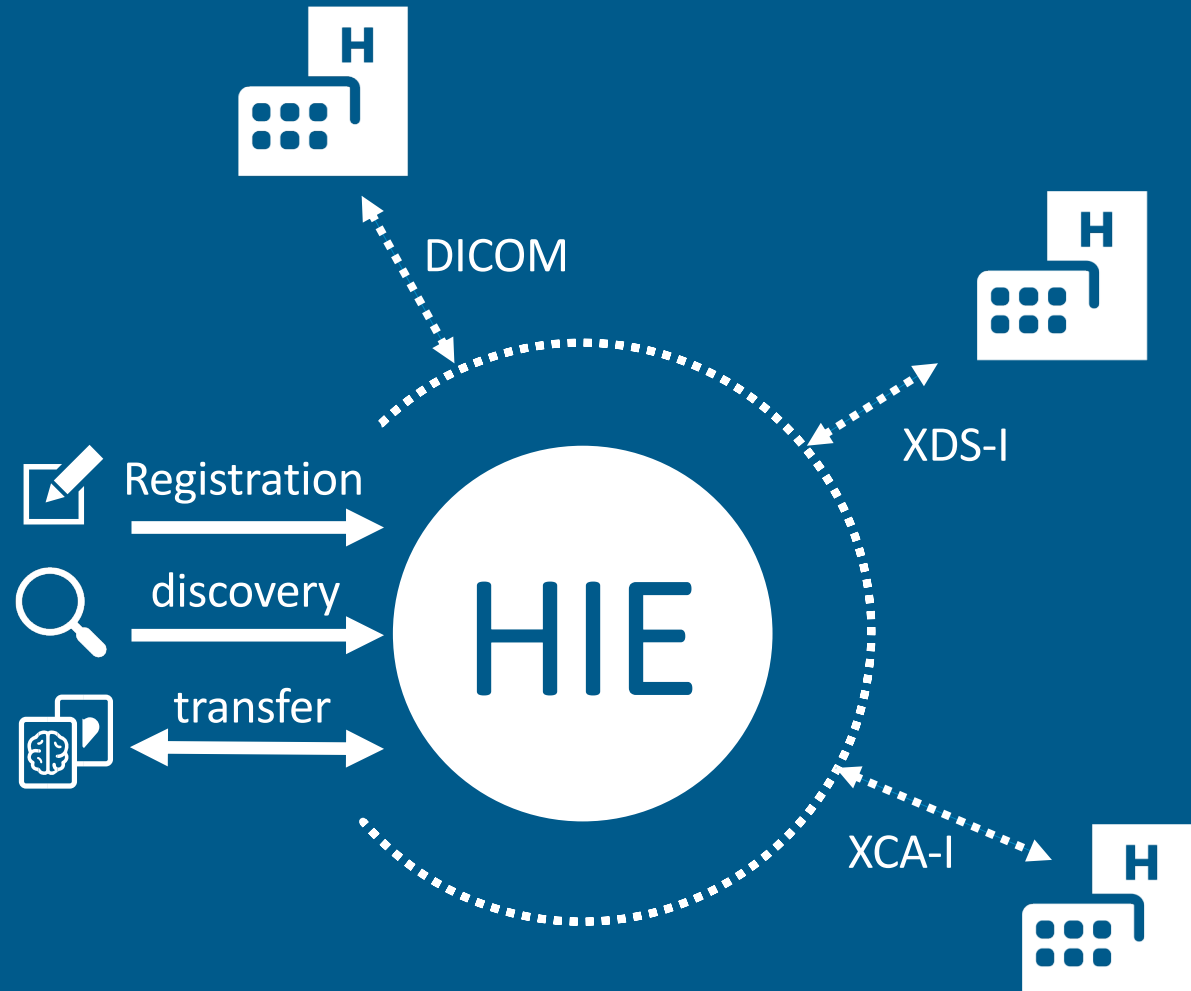
Diagnostic Image transfer to local PACS



Various standardized connection options



No duplication of image storage



Estimated Cost of Duplicate Imaging Claims

8,200,000

Kentucky
population



\$0.96

Average cost of
duplicate imaging per
patient, per year *



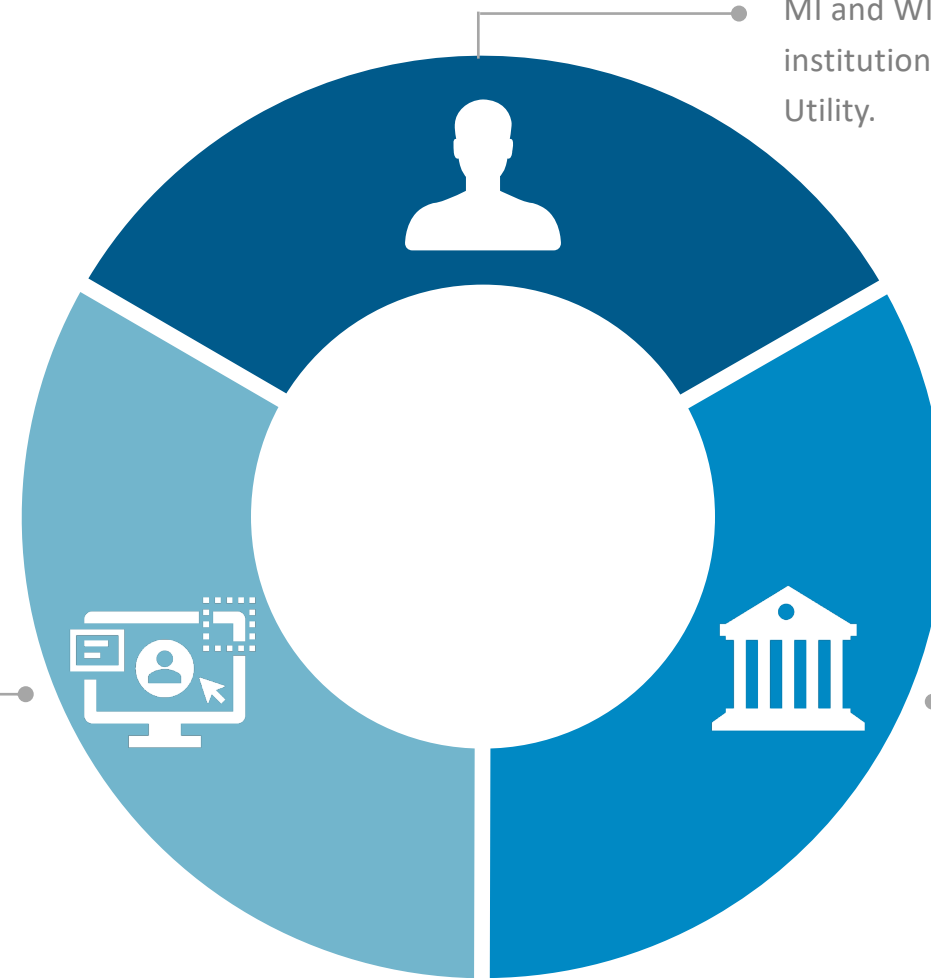
\$7.87M

Estimated annual cost
of duplicate imaging in
the Kentucky
healthcare ecosystem



* Average cost of duplicate imaging based on quantitative data analysis of 47,000 imaging studies over a 2-year period

Examples of our partnership



Stakeholder engagement

Velatura and Philips engaged our shared customers in MO, MI and WI to build a consortium of leading healthcare institutions that support *image enablement* as a Health Data Utility.

Innovative technology

Velatura and Philips completed technical diligence to confirm a seamless workflow integration of the *image enablement* solution into the existing Velatura UX, document registry, ACRS and eMPI.

Funding strategy

This June, MO HealthNet awarded a state budget appropriation to match a 90/10 MMIS grant for *image enablement*.



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QUESTIONS