



Understanding Data Integrity & Validity

Marci Dop

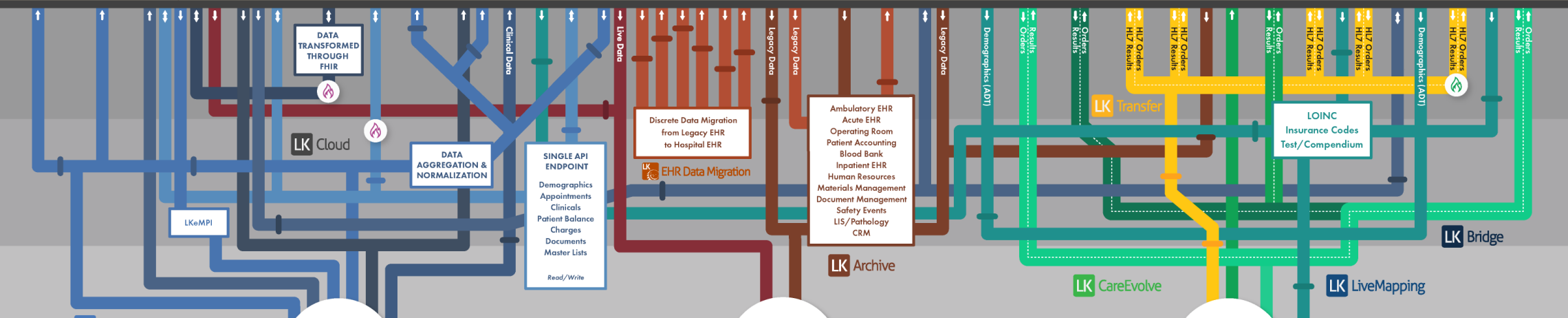
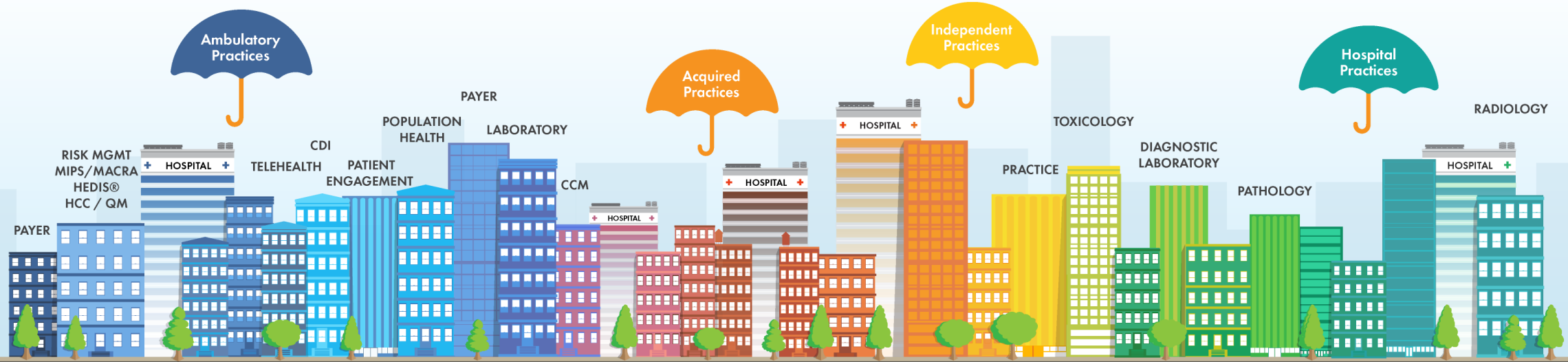
VP, ENTERPRISE LAB OPERATIONS

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VP, ENTERPRISE LAB OPERATIONS
ELLKAY



**One Platform to
Orchestrate ALL Your
Interoperability**

**Live & Legacy Data
Platform for a Long-term
Digitization Strategy**

**Platform to Expand
Your Possibilities —
Think Beyond Connectivity**

OUR FIVE MARKET SEGMENTS



LABORATORIES

Maximize revenue & eliminate missing data with end-to-end orders and results connectivity

- ▶ BioReference
- ▶ LabCorp
- ▶ Quest Diagnostics
- ▶ Sonic/ProPath
- ▶ Exact Sciences
- ▶ Foundation Medicine
- ▶ Natera
- ▶ Intermountain Health
- ▶ Acutis
- ▶ HealthTrackRX
- ▶ Precision Diagnostics



AMBULATORY PROVIDERS

Decommission legacy systems, cut costs, meet federal regulations & maintain continuity of care

- ▶ athenahealth
- ▶ AdvancedMD
- ▶ ModMed
- ▶ VillageMD
- ▶ Springfield Clinic
- ▶ Privia
- ▶ Rancho Family Medicine
- ▶ Women's Health USA



HOSPITALS & HEALTH SYSTEMS

Retain your legacy data & achieve true interoperability across your enterprise

- ▶ Intermountain Health
- ▶ San Ysidro Health
- ▶ UW Health
- ▶ Signature Healthcare
- ▶ Geisinger
- ▶ MultiCare
- ▶ Children's Hospital of Philadelphia
- ▶ Jefferson Health



HEALTH IT VENDORS

Access actionable healthcare data with secure, bi-directional connectivity to hundreds of applications

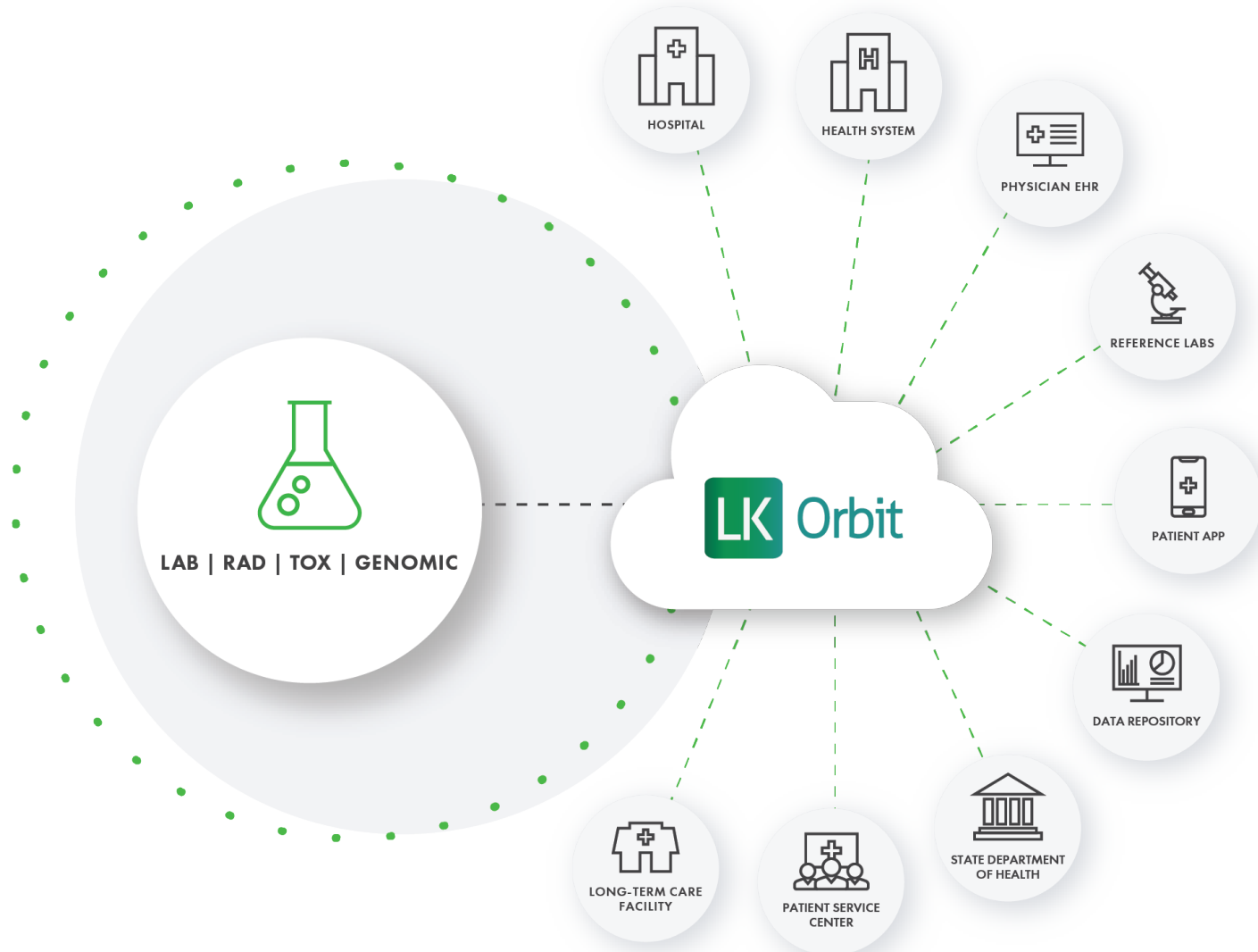
- ▶ Oracle HealthIntent
- ▶ Epic Healthy Planet
- ▶ Nuance
- ▶ Phreesia
- ▶ Arcadia
- ▶ Salesforce
- ▶ Teladoc
- ▶ Higi



PAYERS

FHIR-supported data exchange to drive value-based care & streamline data collection

- ▶ Cigna
- ▶ BCBS North Carolina
- ▶ BCBS Arizona
- ▶ AmeriHealth Caritas
- ▶ Florida Blue
- ▶ Episource
- ▶ Astrata
- ▶ Reveleer



60,000+
INTERFACE BUILDS

7.5M+
TRANSACTIONS DAILY

750+
EHR | PM SYSTEMS

725+
LABORATORIES CONNECTED

400+
HOSPITALS CONNECTED

58,000+
TESTING SITES | PRACTICE LOCATIONS

ELLKAY CHOSEN AS NEW TECHNICAL SERVICE PROVIDER FOR COMMONWELL HEALTH ALLIANCE



NEWS PROVIDED BY
ELLKAY, LLC →
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ELMWOOD PARK, N.J., Sept. 13, 2023 /PRNewswire/ -- ELLKAY announced today that CommonWell Health Alliance has selected ELLKAY as its new Technical Service Provider to support data exchange to 200 million+ patients across its nationwide network of over 34,000 provider organizations. Through its technology platforms and solutions, ELLKAY will help the CommonWell Health Alliance support its current needs along with enabling its commitment to network expansion and service enhancements in preparation for the Trusted Exchange Framework and Common Agreement (TEFCA) and the next phase of interoperability.

"ELLKAY has proven itself as a leader in healthcare interoperability," said Paul L Wilder, Executive Director of CommonWell Health Alliance. "This new partnership with ELLKAY will bring innovation and pioneer growth to elevate our services and improve network efficiencies - which are key as we continue on our journey as a candidate QHIN."

CommonWell Health Alliance –
powered by ELLKAY

PARTNERSHIP

- ▶ Health data exchange & interoperability infrastructure partner
- ▶ 229 million+ patients
- ▶ 34,000+ provider members and HIT vendors
- ▶ 6.6 billion+ health records retrieved

- **The Role of Data Integrity and Quality:**

- Data integrity and quality are foundational to effective data analytics and AI strategies.
- High-quality data ensures accurate insights, reliable predictions, and robust AI models.

- **Significance of a Comprehensive Data Access Strategy:**

- A strategy that emphasizes completeness, quality, and integrity is essential.
- Comprehensive data access allows seamless integration, ensuring all relevant data is utilized.

▶ It is pivotal now more than ever to develop a practical approach on **producing** and **implementing** a **data strategy** to fuel your organization's AI vision.

▶ Given that around 86% of healthcare providers, life science companies, and tech vendors now utilize AI in various capacities, **having a robust data management strategy is pivotal.**

Efficient Processes Require:


- ▶ Accurate and comprehensive, structured data to support clinical workflows
- ▶ Clean Data ensures that healthcare providers can make well-informed decisions swiftly.

Efficient processes depend on accurate and comprehensive, structured data

- ▶ Genomic orders to include clinical history
- ▶ Pathology orders needing supporting information
- ▶ Toxicology orders needing medication lists

- ▶ 70% of clinical decisions utilize laboratory data
- ▶ Of the 14 billion lab test ordered annually, 70% (approx. 9.8 billion) are performed in hospital setting.

Clean accurate data impacts our lab data at every step in the process



Single Patient Record / Patient Identity:

- ▶ Ensures a unified and accurate patient identity.
- ▶ Empi plays a promising and transformative future in patient care management.

Billing Information:

- ▶ Clean data leads to accurate and efficient claims processing.
- ▶ Reduces claim rejections and delays, improving revenue cycle management.

Prior Authorization:

- ▶ Streamlines the authorization process with precise and reliable data.
- ▶ Minimizes administrative burden and accelerates patient care.

Trending of Data:

- ▶ Enables accurate tracking and analysis of patient trends over time.
- ▶ Supports predictive analytics and proactive healthcare interventions.

Clean accurate data impacts our lab data at every step in the process



Continuity of Care:

- ▶ Access to comprehensive and consistent data across care teams.
- ▶ Facilitates coordinated and informed decision-making for better patient outcomes.

Outcome and Care Gaps:

- ▶ Identifies gaps in care and tracks patient outcomes effectively.
- ▶ Supports initiatives to close care gaps and enhance overall health management.

Quality Reporting:

- ▶ Accurate data is essential for reliable quality reporting.
- ▶ Ensures compliance with regulatory standards and improves care quality metrics.



664-BED HEALTH SYSTEM

- ▶ Large health system serving patients throughout Nebraska, Kansas, Iowa, and South Dakota
- ▶ Clinically Integration Network (CIN) strategy:
 - ▶ 20+ organizations, 50+ EMRs
 - ▶ Represents over 1,400 providers
- ▶ CIN participant expansion including medical groups, smaller practices & critical access hospitals
- ▶ Needs for solutions to aggregate, normalize, and transform data from disparate sources for 1.) continuity of care, and 2.) support ECQM, HEDIS, gap analysis, and quality performance initiatives



PROJECT SCOPE

SCOPE

ELLKAY has worked to provision a scalable solution to establish connectivity with 44+ EMRs, aggregate data, leverage our LKeMPI, and adapt our data delivery mechanisms to the sophistication of the client (SFTP, FHIR, HL7, API, etc.).

This includes disparate acute, ambulatory, and specialized practices that participate in the Clinically Integrated Network.

SUPPORTED USE-CASES

Longitudinal Patient Record | Continuity of Patient Care
 HEDIS Quality Measures | ECQMs | Care Gaps

FUTURE USE-CASES

Health Plan Integration | Population Health / Analytics



STRATEGIC DATA PARTNER

- ▶ **Anticipated** how to support health system's unique needs
- ▶ **Approached** the delivery design with a **long-term innovation** mindset
- ▶ **Proactive Partner Approach -**
 - ▶ Consistent team building experience with the health system over multiple projects.
 - ▶ Communication plans at multiple levels including C Level, mid level management, departmental level and Community Connect.
 - ▶ Service organization built around BHS needs

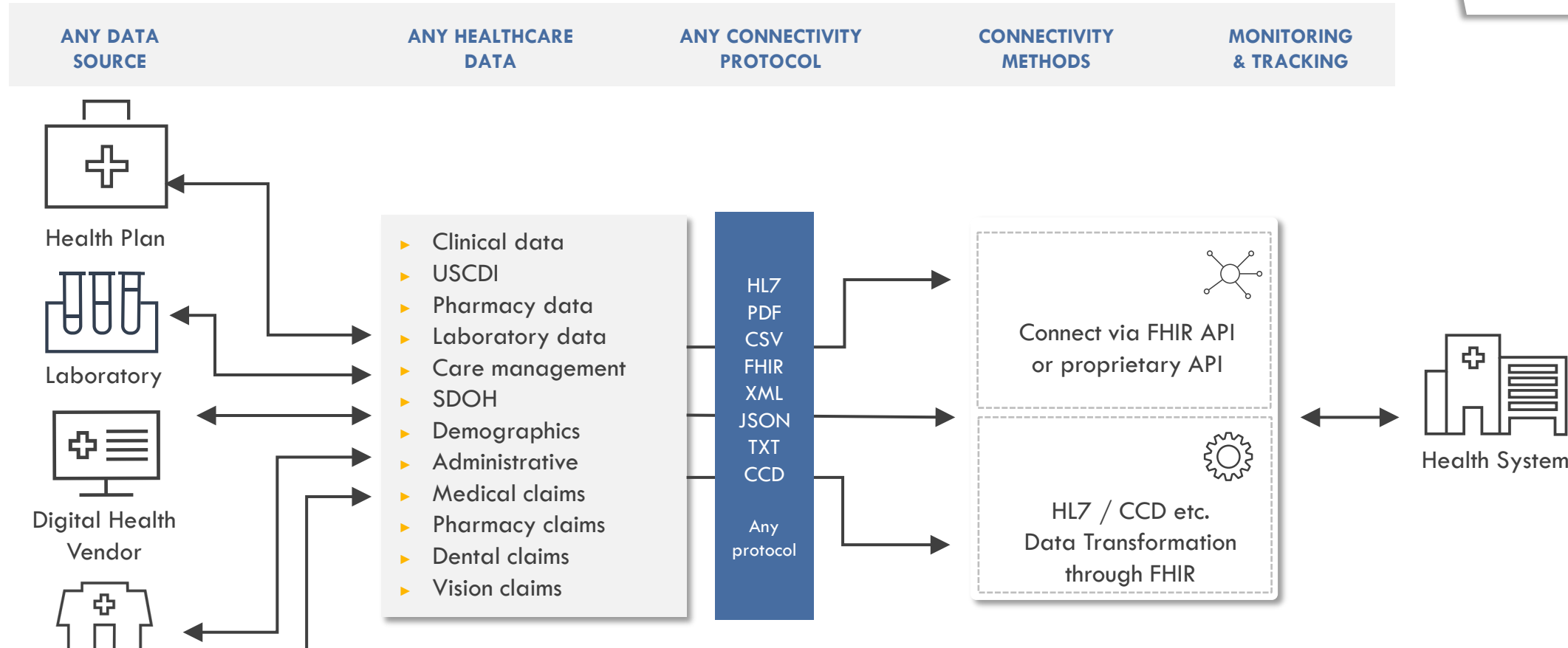


250+ major EHR systems
Connects to thousands of individual practices

- ▶ Allergies
- ▶ Medications
- ▶ Vitals
- ▶ Immunizations
- ▶ Lab Results
- ▶ Orders
- ▶ Appointments
- ▶ QM
- ▶ HEDIS measures
- ▶ Socio-Demographic Data
- ▶ Charges
- ▶ CPT Codes
- ▶ Payers
- ▶ Diagnosis Codes
- ▶ Providers
- ▶ Progress Notes
- ▶ Documents
- ▶ OB Visit Details
- ▶ OB Genetic Screening Questionnaire
- ▶ Social History
- ▶ Genetic History
- ▶ Surgical History
- ▶ Family History
- ▶ Reproductive History
- ▶ Smoking Status
- ▶ Claims
- ▶ Charges
- ▶ Transactions
- ▶ Credits/payments
- ▶ Adjustments
- ▶ Pharmacy
- ▶ DICOM

ELLKAY Standard Data Model supports all data elements for Clinical, Claims, Financial, and Administrative Data

HOSPITAL INTEROPERABILITY PLATFORM FOR DIGITAL TRANSFORMATION





ONE DATA REPOSITORY



Clinical Data Repository
Data Normalization/MPI
Longitudinal Patient Record

Dashboard

Visibility to all Transactions
and connectivity

USE CASES SUPPORTED

- ▶ Continuity of Patient Care
- ▶ Value Based Care
- ▶ ECQMs
- ▶ Quality – HEDIS & Stars
- ▶ NCQA DAV streams
- ▶ Risk Adjustment, RADV
- ▶ Health Economics and Analytics Platforms
- ▶ Population Health and Care Coordination
- ▶ CMS Mandates and support for FHIR APIs

MEMBER DATA

- Demographics
- Encounters
- Problems
- Vitals
- Health
- Concerns
- Procedures
- Medications
- Immunizations
- Results
- Allergies
- Claims
- ADT
- etc.



HEALTH SYSTEMS
Epic, Cerner, Etc.



PROVIDER GROUPS
Athena, Allscripts, eCW



LABS
LabCorp, Quest
Regional Labs



OTHER DATA PARTNERS
CommonWell | Carequality
State HIE

RECOGNIZE

...the essential role of data integrity and validity in maximizing AI applications' potential in healthcare, life sciences and tech industries

EVALUATE

... how data integrity directly impacts AI outcomes and the overall success of AI initiatives

DEVELOP

... a strategic data management plan that aligns with and enhances one's AI vision

IMPLEMENT

... practical guidelines to ensure data quality and support robust AI strategies