

# Advancing CDC's Vision with PublicHealth 360: Data Modernization for Enhanced Surveillance

Unlocking the potential of integrated, standardized, and rapid data access to transform public health outcomes

## What We Know?

The increasing influx of varied public health data sources, coupled with the urgency to monitor and respond to health trends and outbreaks efficiently.

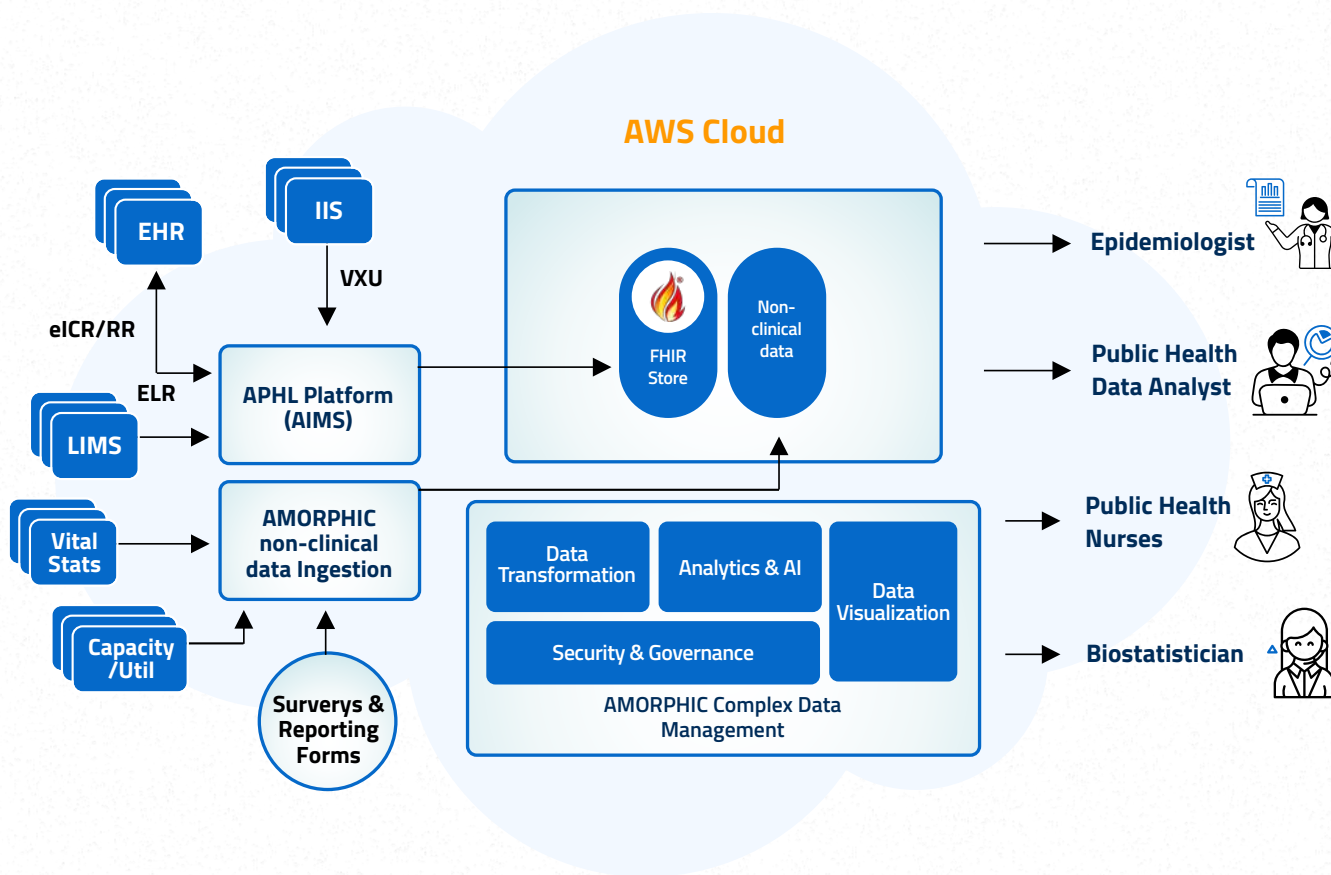
## What We Face?

The technological challenge of consolidating disparate public health datasets (from outbreak reports, vaccination records, laboratory data) while ensuring data privacy, security, and regulatory adherence.

## What Lies Ahead?

As we navigate the complexities of diverse public health data, how can integrated solutions lead us to a new era of enhanced surveillance? Discover our approach with the **Public Health 360 Data & AI Solution**, where data becomes actionable intelligence.

## Public Health 360 Data & AI Solution



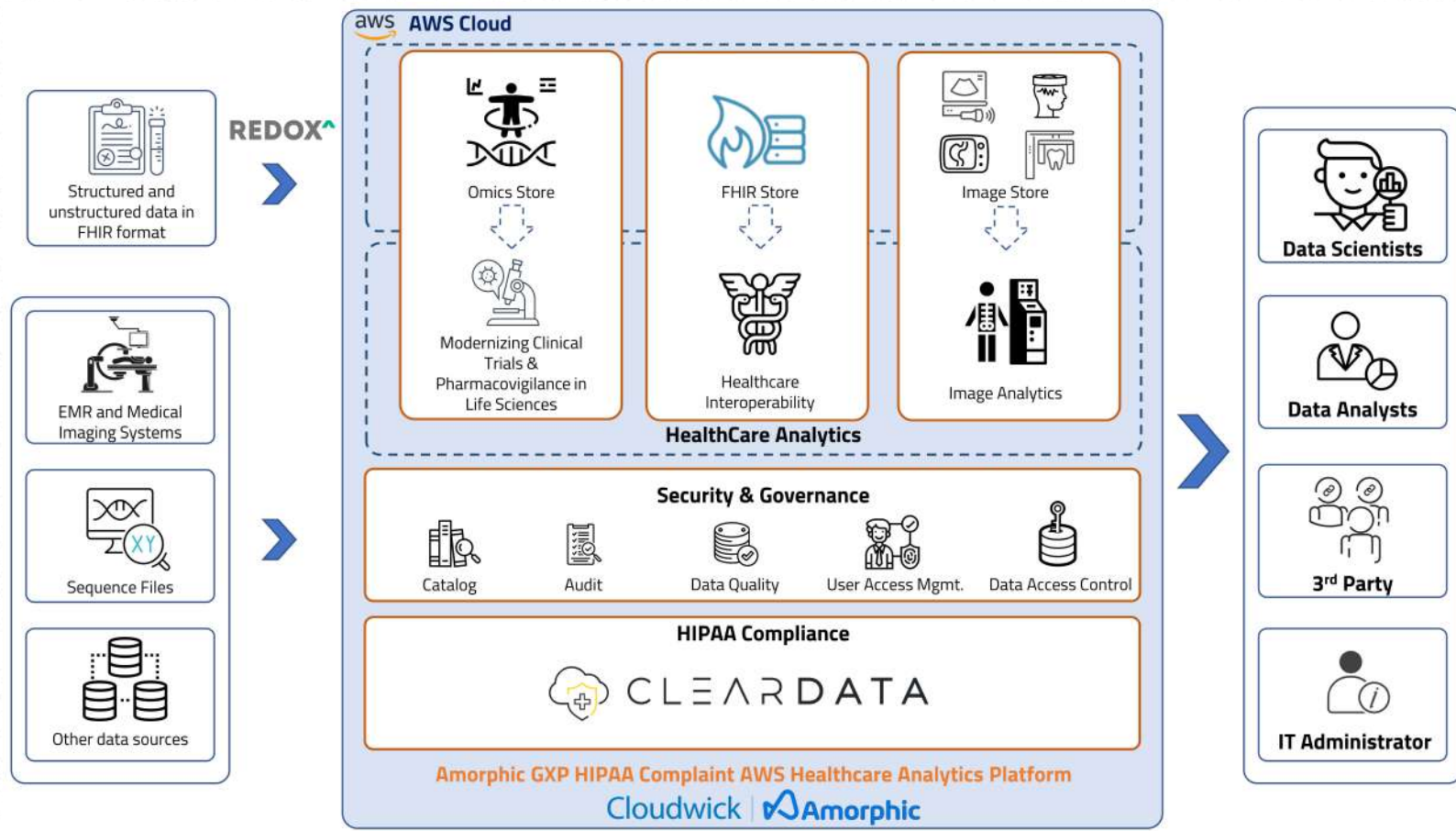
## Solution Highlights

- **Unified Data Lake:** Consolidate varied public health data, including eCR, ELR, and VXU messages, into a secure cloud-based repository
- **Automated Data Integration:** Automatically retrieve health data from sources such as electronic case reports (eCR), laboratory results (ELR), and vaccination updates (VXU) from healthcare providers, laboratories, and immunization registries
- **Data Validation and Cleaning:** Apply rules to identify gaps or inconsistencies
- **Transformation and Standardization:** Harmonize diverse public health terminologies
- **Automated Workflows:** Streamline the process from ingesting vaccination data to its storage
- **Quality Checks and Dashboards:** Leverage analytics tools
- **Collaboration Features:** Enable epidemiologists to annotate specific events, ensuring synchronized efforts during outbreak responses and mass campaigns.

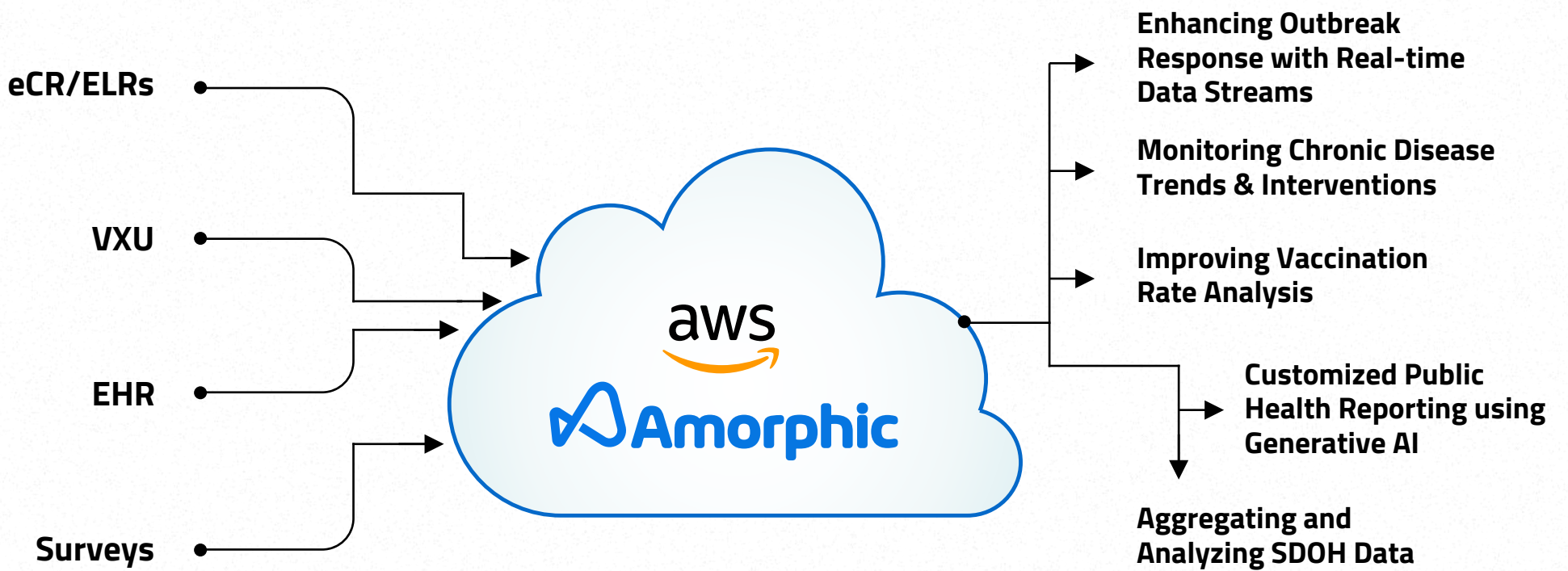
## Key Benefits

- Enhanced Epidemic Preparedness
- Real-time Public Health Decision-making
- Improved Health Communication & Policy Making
- Efficient public health Campaigns
- Collaborative & Coordinated Responses.

Solution Architecture



Public Health Data Modernization Use Cases



How do we engage?

At Cloudwick, we take a top down approach to start with identification of current business initiatives that require analytical capabilities with their desired operational/business outcomes. Further, a mapping of key data and analytics use cases that align with the initiatives are shortlisted. A brief flow of engagement is shown below with outcomes at every stage.



Assessment/Workshop

Prioritised list of use-cases



Production

Implementing use cases at scale



Managed Operations

Ongoing operational support for use-cases in production