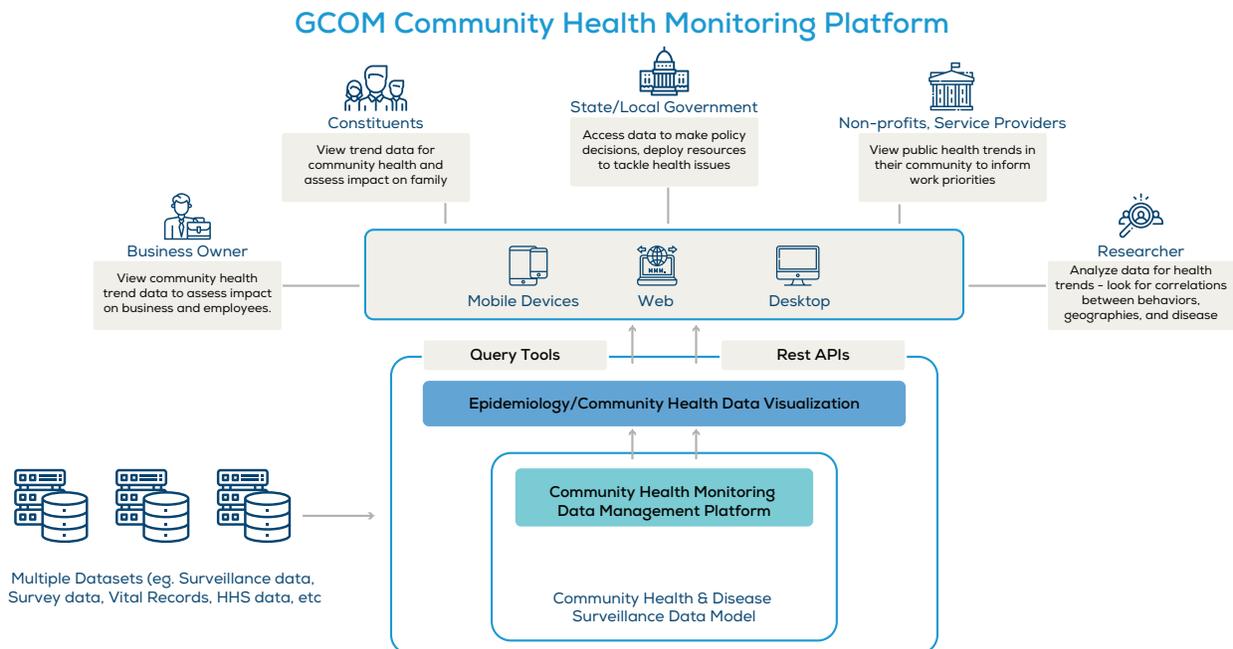


GCOM Community Health Monitoring Platform

In today’s environment the general public is much more “data aware” and demands factual, transparent and digestible information regarding disease and health in their communities. While State and Local health departments need a modernized data surveillance infrastructure to better understand community health trends and shape policy. Certain disease conditions share many social, environmental, behavioral, and biological determinants and are often managed by the same or similar organizations. Public health efforts to prevent their occurrence require a syndemic (synergistically interacting epidemics) orientation. Understanding the local epidemiology, as well as understanding risks and the service needs of the communities served are essential components of developing appropriate, comprehensive services and thereby enhancing quality, public health impact and cost-effectiveness.

GCOM CHM Platform

GCOM provides a dynamic data management platform anchored by a domain-specific data model and includes flexible data integration and powerful data virtualization capabilities. This platform is wrapped with a configurable Epidemiology and Community Health Data visualization layer that is easily consumable by citizen, community-based service providers, policy makers and researchers. Advanced query features allow ordinary users to explore data at several levels of granularity by easily slicing and dicing across multiple dimensions in a single screen. Citizen and service providers can find the best and most up to date information on diseases in their communities, trend data for community health and seasonal issue like flu or other infectious disease in their neighborhoods. While State & Local Leaders/ Policy Makers can access the information they to make decisions on how to deploy resources to tackle immediate and long-term health issues.



Some highlights of our exceptional CHM solution that is available as a service to all levels of government and constituents are as follows:

Dynamic Data Management Platform

- **Flexible Data Integration.** Scalable platform allows integration of data from a wide range of sources to support complex statistical computing with ability to execute in near real time.
- **Powerful Data Virtualization.** Utilize data virtualization best practices that facilitate secure and real-time access to data including features like data masking, data quality, and data cleansing.
- **Dynamic Platform.** The platform has a modular, flexible design anchored by a domain-specific data model allowing the solution to align with and complement existing data offerings. A persistent database layer optimizes query performance and persists the granular and calculated summary.

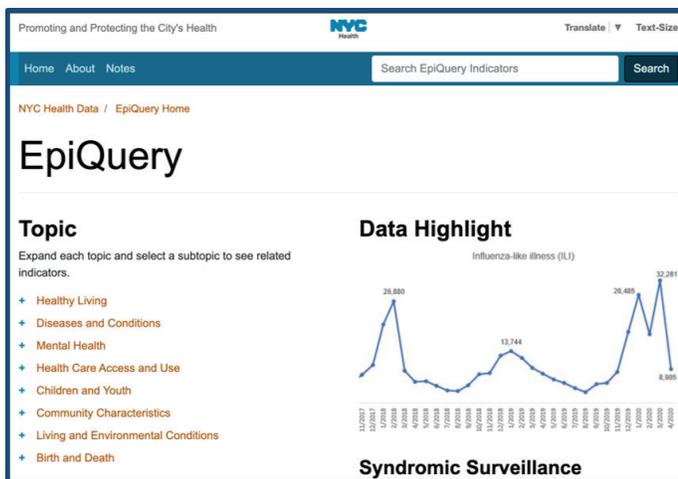
Enhanced Policy Insights, Rapid Response

- **Comprehensive Data Set Provides Proper Context.** Robust, flexible data management platform integrates a wide variety of data sources that can be updated near real-time providing key insight and rapid response ability to decision-makers.
- **Powerful Visualization Tools Support Policy Analysis.** Policy makers can create visual representations of data to answer simple/complex questions. Authors can then publish workbooks full of views allowing others to interact with the data. Policy makers can also do interactive trend analysis over many years.
- **Domain-specific Model makes Data Consumable.** Domain-specific data model developed using industry best practices combined with robust virtualization capabilities makes information easy to digest for non-technical users such as policy makers and community leaders.

Easily Consumable Visualization

- **Advanced Query Features.** Allows users to explore data at several levels of granularity. Users can slice & dice data across multiple dimensions within a single screen. Static content is aggregated with dynamic visualizations.
- **Configurable Data Visualization.** Users can choose dashboard style that includes dynamic content based on selection. Data and visualization can be shared via social media, emails, etc. or download as needed.
- **Intuitively Consumable Information.** Data can be easily consumed by non-statisticians. Static content enriches portal with relevant information. Visuals (tables, graphs, maps) are updated automatically due to in-built association. Responsive, mobile-first design provides customer-centric user experience.

Customer Example: NYC DOHMH EpiQuery & CHP Web applications



- EpiQuery - a valued resource for disseminating health data to advance research, inform programs and policy, and promote health equity in New York City
- Industry standard, modern tools provide improved flexibility in terms of both virtualization (creating a virtual data layer to access different forms of data) and visualization (rich media and graphical presentation of data)
- Referenced by New York Times, May14, 2020: “By the second week of March, the city’s public health warning system — known as the syndromic surveillance system — began strongly signaling the spread of a flulike illness, officials said”. (<https://www.nytimes.com/2020/05/14/nyregion/coronavirus-de-blasio-mitchell-katz.html>)

Why GCOM?

GCOM has established an outstanding reputation of delivering innovative, tailored technology solutions with a focus on modernizing legacy IT systems. We combine the scale to support large complex projects with the agility and accessibility of a smaller company giving state and local leaders a third option when looking for a partner to their technology challenges. Our reputation for innovation and reliability has been earned by helping clients leverage cutting edge technology while mitigating risk. Our team collectively brings decades of successful government experience to the table. GCOM combines its experience and domain expertise with user-centric design for solutions that improve agency performance, accessibility and transparency.