Reimagining public health

Strengthen resiliency with streamlined data processes, dynamic surveillance and forecasting, and disease investigation and monitoring

Integrate data from multiple systems to spot patterns faster.

Automate critical processes to accomplish more in less time.

Protect user data and adhere to ethical standards.

The Issue

For most public and governing officials, the public health focus since 2020 has been dominated by COVID-19 and the continuing fallout from the pandemic. However, many other systemic health issues in our society never abated, and public health personnel continue to grapple with a long list of threats to our communities. Whether facing acute threats to humans or the food sources that sustain us – or dealing with societal influences – public health professionals are under increased pressure to build a better-prepared and more resilient population.

The challenges we face require the proper tools. Disjointed, siloed data systems must be reworked into integrated platforms that allow quick, reliable analysis across multiple agencies. Stakeholders and policymakers need to trust that the analyses they receive from public health professionals take into account all possible connections so that the public can receive the best information and take appropriate action. Modern, data-driven policies can only be achieved with comprehensive solutions.

The Challenge

Outdated systems. Even today, it's common to find antiquated data storage systems used to house the routine data needed to track public health threats and trends. Older systems severely limit agencies' ability to create a complete picture of public health issues, allowing potentially important issues to go unnoticed.

Varied data sources and formats. Disease information may come from multiple agencies and in varying forms. It's essential to have one system to automate data translation from multiple agencies and computer languages and integrate compiled data to maximize investigative efforts.

Slow data processing. Existing surveillance systems cannot cope with the speed and scale of disease outbreaks in an interconnected world. Investigators need solutions that process data as fast as it's produced to develop effective disease-fighting strategies.

Difficulty prioritizing. Officials require solutions that quickly identify citizens most at risk in the event of an outbreak. Unless social risk factors are taken into account from the outset, medical resources can quickly become overburdened.

Our Approach

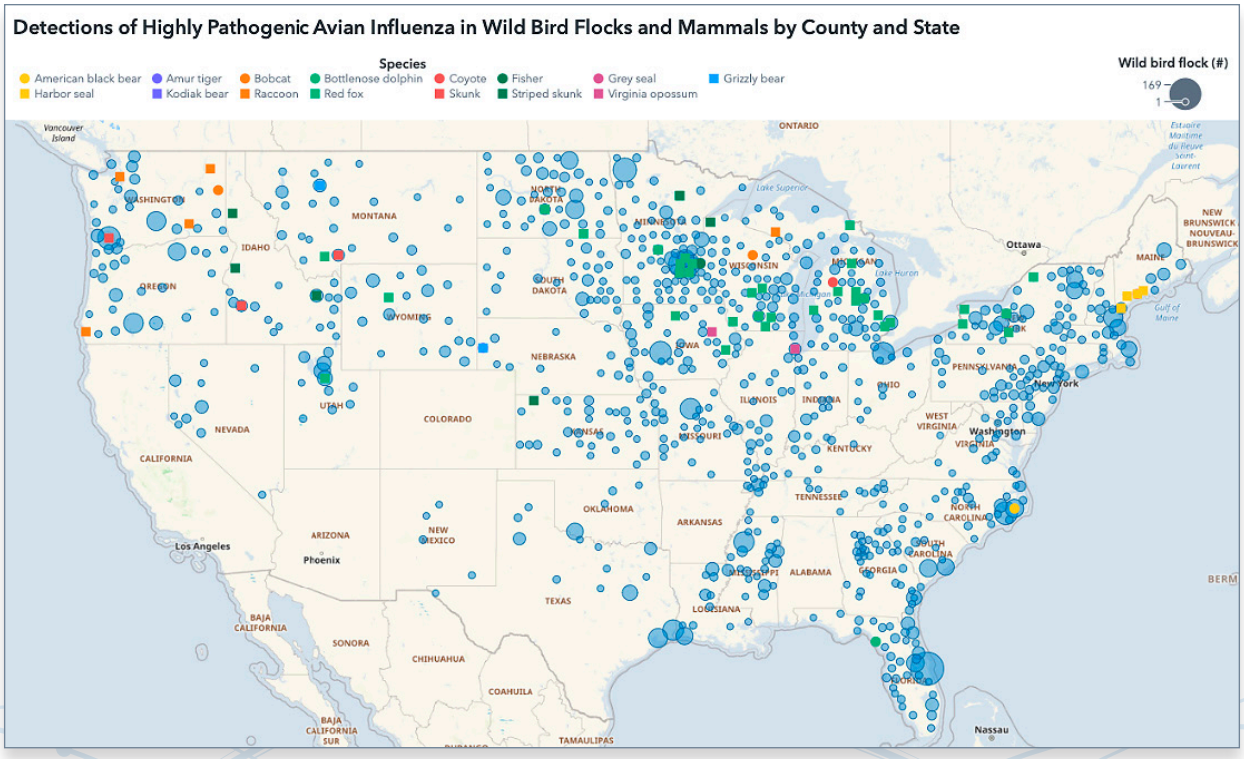
Public health stakeholders must rapidly implement changes to their data systems to meet increasing demands. We approach the problem by providing software and services to help you address a range of needs while retaining geographic and subject specificity.

- **Bring structure to data systems.** A SAS® enterprise data solution provides the foundation for data-driven responses. For example, after migrating health registries to a data lake, you can use that data to create accurate reports for local and inter-agency operations.
- **Reduce workload.** Our solutions are designed to automate critical processes – data prep, integration, reporting, visualization and exploration – freeing public health staff to accomplish more in less time.
- **Realize efficiencies.** SAS solutions make it easy to incorporate supplemental data, assign cases to professionals and pull data into advanced surveillance reports.
- **Improve flexibility.** Our solutions can be formatted for any category of disease, whether it's respiratory, foodborne, systemic or other.
- **Visualize linkages.** SAS enhances supplemental data, such as flight manifests, to reveal linkages and exposures down to the individual level.

The SAS® Difference

SAS enables our public health partners to make decisions with confidence, knowing that their teams are working with a reliable solution that delivers a complete assessment of available data. That allows for precise short-term decisions and a thorough understanding of issues related to long-term policies.

- **Comprehensive data management.** Whether the data originates from a surveillance system or is fed from an HIE, SAS compiles all necessary data for a successful intervention.
- **Proven predictive analytics.** SAS analytics helps public health leaders anticipate surges in disease outbreaks, analyze how a particular disease will affect essential resources and take action to meet critical infrastructure needs.
- **Delivery expertise.** To ensure our customers get the most out of their investments, our global team of epidemiologists, clinicians, data scientists, academic researchers and industry experts join forces in researching, creating and vetting SAS solutions.
- **Trust and usability.** SAS delivers the right information in easy-to-understand formats while protecting personally identifiable information.



Learn more about public health solutions from SAS.