

PUBLIC HEALTH DATA MODERNIZATION

CDC can develop and deploy world-class data and analytics to meet today's and tomorrow's health challenges.

CDC will use fast, accurate, integrated data to help make invisible health threats visible.

CDC must create an integrated high-speed, networked health data system for laboratories, healthcare facilities, and public health authorities, paired with fast and reliable data in order to protect Americans from health threats.

FY 2020 Investments

- The FY 2020 appropriation provided CDC with \$50 million to modernize its IT and data systems.
- This is the first year of a multi-year effort. This support, coupled with support for other agencies, allows us to begin the process of modernizing our systems and planning for future action, including:
 - Accelerating public health data for action
 - Partnering with state and local public health, partners, and health care systems
 - Realizing best-in-class innovation
 - Advancing interoperability and modular design to expand use of Validations and Edits Web Service (VIEWS) and Improve Data Quality of vital statistics

What CDC Is Doing Now

CDC's Public Health Data Modernization Initiative is at the heart of a national effort to improve the data that can improve health. This cross-cutting strategy will move us from tracking threats to anticipating them, beginning with:

- **Funding state and local health departments, laboratories, healthcare systems, and industry (\$32.5M)**
 - Accelerate data and health information system modernization
- **Creating tools and capabilities at CDC (\$13.0M)**
 - Transform CDC into an integrated data ecosystem; enable timely flow of information across public health and healthcare; and generate data tools
- **Building a public health workforce with the latest skills in data science and informatics (\$2.5M)**
 - Improve assessment, train existing staff, and add new talent
- **Realizing best-in-class innovation with research, private-sector, and public health partners (\$2.0M)**
 - Innovation research and development to support next-generation public health data tools, modeling and predictive analysis, artificial intelligence applications for public health, and machine learning approaches
 - Strategic forecasting to advance predictive analytics and forecasting capabilities

What CDC Will Do

FY 2021 President's Budget Request: \$30 million

The complex and changing nature of the today's health threats highlights the need for continuing investments in an interdisciplinary, comprehensive, and cohesive public health approach. This includes:

- Accelerating Public Health Data for Action
- Partnering with State and Local Public Health, Partners, and Health Care Systems
- Sustaining Innovation

CARES Act: \$500 million for Data Surveillance and Analytical Infrastructure

- Leverage data for surveillance, detection, and improving jurisdictions' situational awareness to allow localized, targeted responses and decision making using more real-time data to respond to outbreaks like COVID-19.
- Expand the electronic exchange and integration of information between public health and health care, including electronic health records, which is essential for timely, accurate, and accessible disease surveillance.
- Support for public health's data science, informatics, and IT workforce; expanding core data, informatics, and IT capacity; advancing interoperable systems and tools; strengthening and expanding collaboration

