

ACTIVITIES

If we (CDC and partners) do this ...

COORDINATE PEOPLE AND SYSTEMS

Create interoperable systems: federal, state, local, and healthcare

Coordinate investments, decisions, and policies across CDC and with partners

Make data sharing easier through common policies, practices, and standards

Advance academic and private partnerships

ACCELERATE DATA FOR ACTION

Identify data for priority public health needs

Upgrade and modernize IT infrastructure

Strengthen the data science workforce

Adopt open standards and tools while protecting data security

Translate data into evidence-based recommendations

SUPPORT STRATEGIC INNOVATION

Seek partner-driven data solutions

Develop next-generation tools (e.g., modeling, visualization, predictive analysis, machine learning)

Strengthen predictive analytics and forecasting

SHORT-TERM OUTCOMES

... then we expect these changes to occur ...

Increased collaboration, communication, and messaging among CDC and partners

Reduced data collection and reporting burden at state, tribal, local, and territorial levels

Improved **data sharing and interoperability** through common standards like HL7® FHIR®

Increased capacity to **quickly analyze, interpret, and act on data**

Increased electronic reporting and specific enhancements to flagship CDC surveillance systems

Stronger workforce in data science, analytics, modeling, and informatics

Targeted real-time communication of data and results

Integration and use of data from **new or non-traditional sources**

Improved pathways to explore, develop, and **deploy next-generation technologies**

Quick, continued data analysis with **adjustment of modeling in real time**

INTERMEDIATE OUTCOMES

... which will lead to ...

Effective coordination on complex health and emergency response challenges

Timely and complete **data reporting to CDC**

Efficient, secure **data access and exchange between systems** across the country

A more comprehensive picture to improve decision-making and protect health for all

Real-time, linked systems that **recognize threats early** to inform timely response

A highly skilled workforce that applies state-of-the-art data skills and tools

High-quality information and guidance to protect people's health

Open-source, enterprise-level technologies and coordinated systems

New approaches to **address present and future threats**

LONG-TERM OUTCOMES

... our ultimate goals.



CDC can rapidly identify and effectively mitigate emerging threats



Trusted data promotes evidence-based behaviors, interventions, and solutions to protect health



Every American has equal opportunity to attain the highest level of health possible



All people have the right information at the right time to make decisions



Our country is better prepared for, and protected from, all types of public health threats

