Sharing Data in Real Time to Solve Outbreaks Faster

System for Enteric Disease Response, Investigation, and Coordination (SEDRIC)

Rapid, coordinated response to multistate outbreaks of enteric (foodborne and animal-related) disease can help prevent illness and save lives. Such responses require close collaboration, communication, and sharing of data among local, state, and federal partners.

To increase collaboration and speed response activities, a web-based platform is being implemented to join together epidemiologic, laboratory, and traceback data in real time during multistate outbreak investigations.
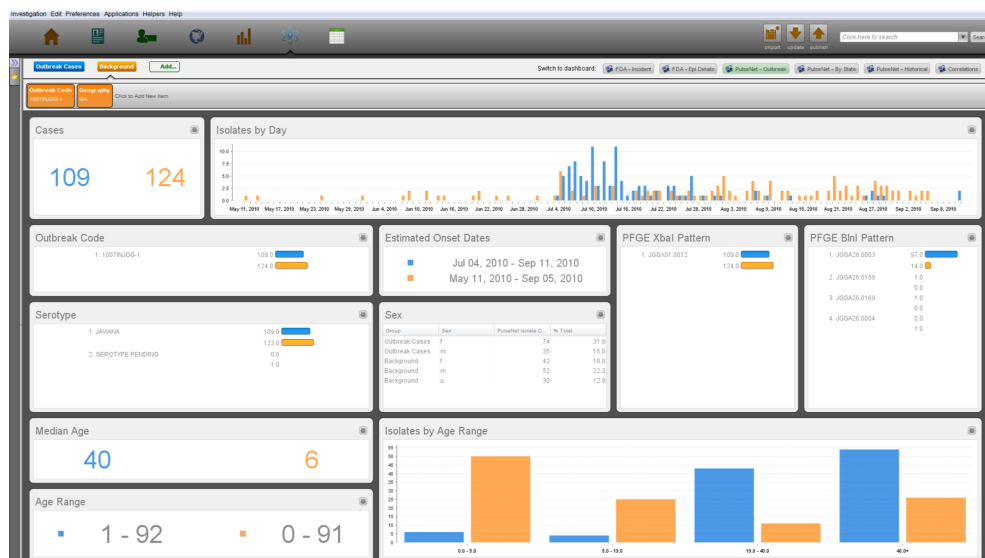

What is SEDRIC?

The System for Enteric Disease Response, Investigation, and Coordination, or SEDRIC, is a web-based platform developed by the Centers for Disease Control and Prevention (CDC) and Palantir Technologies to facilitate collaborative multistate outbreak investigations of enteric disease.

SEDRIC is a customized, off-the-shelf web-based software system with four major capabilities:

- Integrate relevant surveillance data sources in real time
- Visualize outbreak data rapidly
- Provide a secure platform for partner collaboration
- Manage a repository of historic surveillance and outbreak data

Outbreak Dashboard:

Helps investigators quickly view major summary data and allows them to view comparisons between outbreak-related cases and historical background cases.

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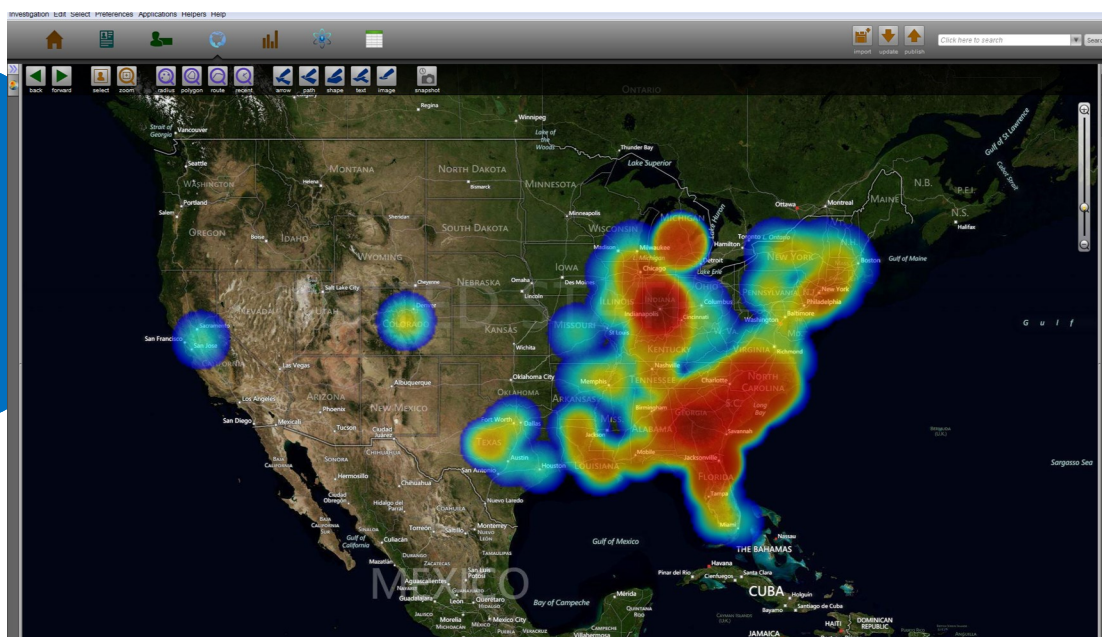## How does SEDRIC support outbreak investigations?

SEDRIC brings together epidemiologic, laboratory, and traceback data across disciplines under a single, secure platform that can be used by many partners. The ultimate goal of SEDRIC is to achieve better, faster responses to enteric disease outbreaks, leading to fewer illnesses and deaths.

To reach that goal, users have access to customizable SEDRIC tools:

- **Outbreak Dashboards**: Quickly view major summary data for an outbreak, including demographics, when illnesses occur, and laboratory data
- **Maps**: Visualize the geographic spread of illnesses over time
- **Traceback Diagrams**: Construct complex diagrams connecting illnesses to the ultimate source of the outbreak
- **Line Lists**: Create and edit lists of ill persons, including demographic, clinical, laboratory, and exposure information on each ill person in the outbreak

Maps:

Mapping tools in SEDRIC allow investigators to visualize the geographic spread of illnesses across time and space.

Who is using SEDRIC?

SEDRIC facilitates secure electronic data-sharing among partners during an outbreak investigation.

Partners currently using SEDRIC with CDC include:

- State and local health departments
- U.S. Department of Agriculture Food Safety and Inspection Service
- U.S. Food and Drug Administration

For more information, please visit **cdc.gov/foodsafety/outbreaks**

National Center for Emerging and Zoonotic Infectious Diseases
Division of Foodborne, Waterborne, and Environmental Diseases