SUPPORTING TRIBAL PUBLIC HEALTH INFRASTRUCTURE AND EFFORTS TO IMPROVE DATA ACCESS CDC/ATSDR Tribal Advisory Committee

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Overview

- CSELS Mission
- Supporting Public Health Infrastructure in Indian Country
 - Public Health Workforce
 - Case Surveillance
 - Data Modernization
- Tribal Public Health Data
- Addressing GAO Recommendations



Data, Surveillance, and Analytics





Public Health Workforce

Scientific Communication

What We Do

CSELS works to strengthen and modernize the public health **infrastructure** of the United States through **science** and **collaboration**

Snapshot of Selected CSELS Programs



CDC's online learning system



















CSELS Strategic Priorities





- Modernize case surveillance and implement electronic case reporting
- Expand syndromic surveillance capacity
- Improve data science and informatics capacity

Laboratory Systems

- Expand laboratory data exchange with public health and clinical laboratories
- Strengthen laboratory training and workforce development



Public Health Workforce

- Build a diverse and capable pipeline of public health professionals
- Upskill the existing public health workforce

How CSELS supports Public Health Infrastructure in Indian Country



PUBLIC HEALTH WORKFORCE



Public Health Workforce

The Foundation of Every Public Health Effort

What

CDC builds the workforce necessary to protect public health through recruitment and training



CDC delivers learning opportunities

for health professionals on many topics, including COVID-19

Why

A competent, sustainable, and empowered public health workforce is better prepared to meet emerging and future challenges

CDC fellowships are pipeline programs to **CDC Leadership**

How

CDC uses an evidence-based approach to



the public workforce, with an emphasis on diversity and data science



Improving the **diversity of** the public health workforce pipeline through recruitment, selection, and training curriculum

Developing the Public Health Workforce in Tribal Jurisdictions



CDC's online learning system

CDC TRAIN: A national system used by affiliate member organizations to manage and share public health trainings

- In FY21, more than 9,800 CDC TRAIN learners identified their work setting as either Indian Health Service (6,270) or Tribal Health Sites (3,614)
 - In FY21, more than 2,700 new CDC TRAIN learner accounts were created that identified their work setting as either Indian Health Service (1,845) or Tribal Health Sites (915).

Training & Continuing Education Online (TCEO)

• In FY21, more than 15,900 TCEO learners identified their work setting as either Indian Health Service (12,661) or Tribal Health Sites (3,288).

Developing the Public Health Workforce in Tribal Jurisdictions

2022 American Indian, Alaska Native, & Native Hawaiian Career Expo

November 3, 2022

- CDC will host a virtual recruitment event to provide Tribal students and alumni an opportunity to learn about CDC career opportunities.
- The event will also provide an opportunity to interact with CDC leaders and staff.

For questions or general inquires: **recruiter@cdc.gov**

CASE SURVEILLANCE

Case Surveillance and Electronic Case Reporting (eCR)

Data from Healthcare to Public Health Agencies

What



CSELS runs NNDSS, the nation's case surveillance infrastructure

eCR automatically sends case reports

to public health agencies from an EHR in healthcare





eCR provides a seamless, real-

time, **bidirectional transfer**

Automating the case reporting process replaces timeconsuming reporting

How

Scaled up eCR for COVID-19 by aligning efforts of:

1. Public Health Agencies

2. Health IT and EHR Vendors

3. Healthcare Organizations

- All 50 states, DC, PR, and 13 large local jurisdictions have received eCR data
 - **14,000+** healthcare facilities in 49 states in production for eCR

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eCR enables **real-time** case reporting to public health agencies



of case

report data

eCR improves data completeness

Expanding eCR with Tribal Partners

CDC is working with **Urban Indian Organization healthcare providers** to connect them to the eCR infrastructure, reducing their public health reporting burden.

 The National Council of Urban Indian Health selected three Urban Indian Organizations as subawardees for the Expanding Electronic Case Reporting To Benefit Urban Tribal Populations project.

CDC is working with **Tribes** to connect to the eCR infrastructure to receive better and faster data.

 The National Indian Health Board selected two Tribal nations as subawardees for the Improving Electronic Data Access For Reportable Conditions For Tribal Governments project.

Field Work in Action

The CDC Epi Info[™] Team conducted individual **Tribal technical assistance sessions** that ranged from general orientations to technical screen sharing collaborations.

- The Epi Info[™] team worked with the Albuquerque Area Southwest Tribal Epidemiology Center with a COVID-19 database used to actively collect health data of COVID-19 patients.
- Tribal members reached out seeking a way to use Epi Info web products while maintaining the sovereignty of their data on their dedicated servers.

DATA MODERNIZATION



DMI DATA MODERNIZATION INITIATIVE

DMI is a once-in-a-generation opportunity to strengthen the data and surveillance infrastructure of the United States.

Priority CSELS DMI Efforts

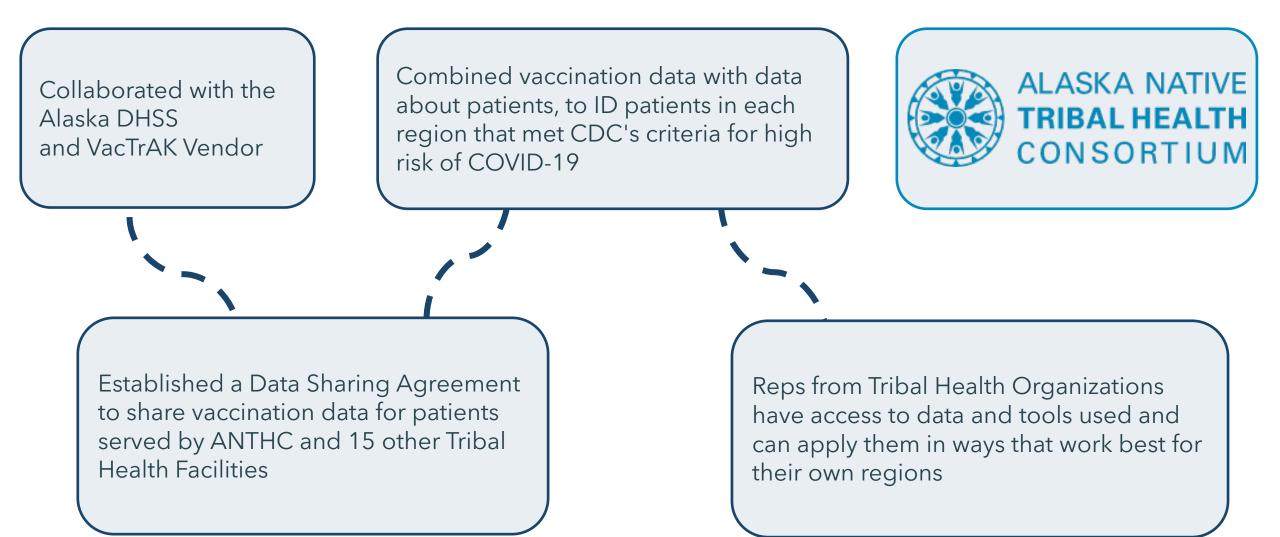
- Electronic Case Reporting
- Laboratory Data Exchange
- Case Surveillance Modernization

- Syndromic Surveillance Enhancement
- Data Science Workforce and Upskilling

Accelerating Public Health Data Modernization in Tribal Jurisdictions

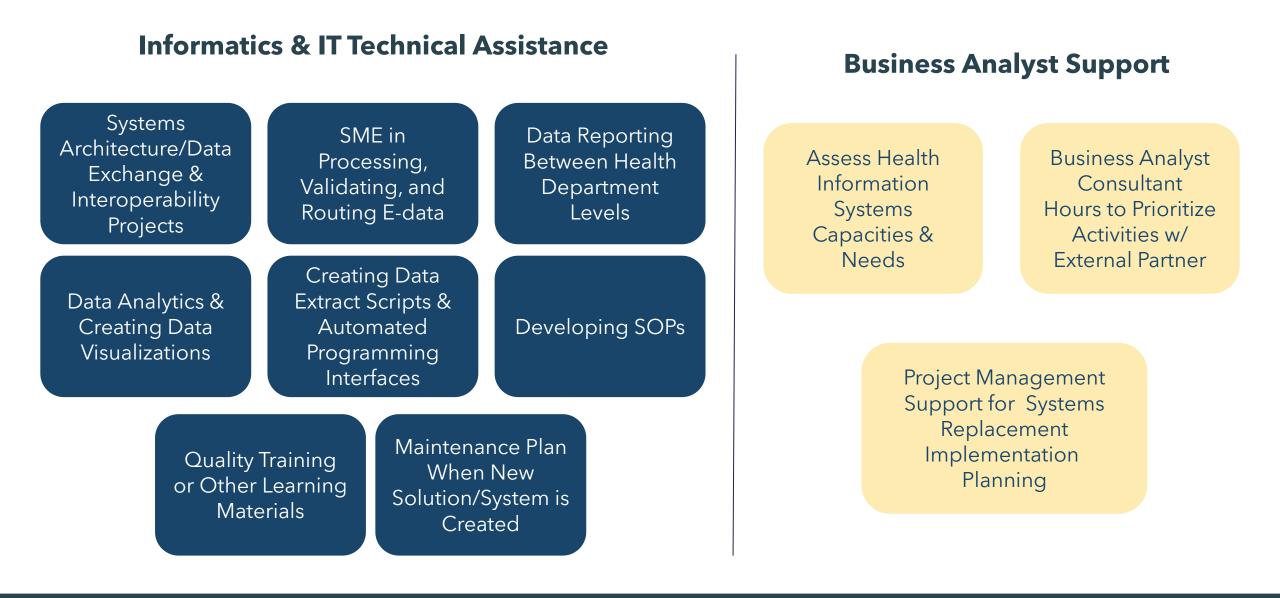
Alaska Native Tribal Health Consortium	 Automating integration of immunization registry data into population health data feeds, creating dashboards, and providing training to users on newly created analysis tools
Northwest Portland Area Indian Health Board	 Conducted internal DMI needs assessment; implementing action plans & increasing staff upskilling opportunities
Rocky Mountain Tribal Leaders Council	 Staff upskilling in data management and visualization to improve data use
Wabanaki Public Health and Wellness	 Process of creating, initiating, and maintaining surveillance structure

Spotlight on Alaska Native Tribal Health Consortium Efforts



DMI Technical Assistance

Requests for DMI TA can be sent to **csels_dmi@cdc.gov**



EFFORTS TO IMPROVE DATA ACCESS

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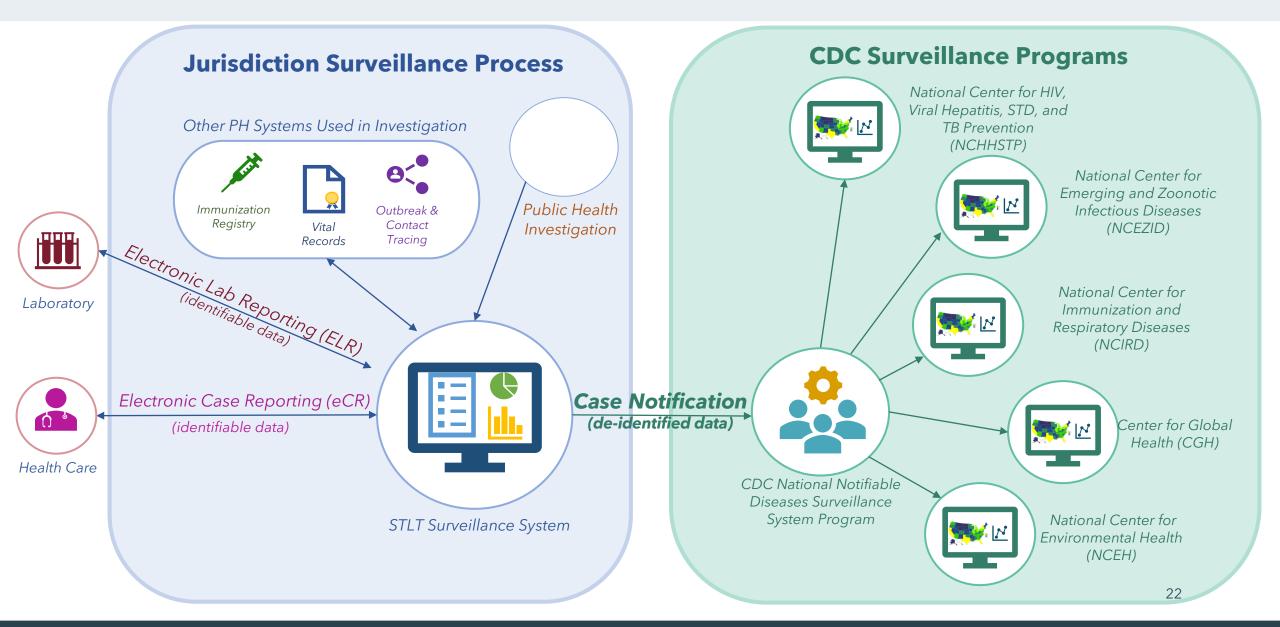
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Example Data System: Notifiable Diseases



Addressing Data and Systems Challenges

Limitations

- Public health systems have not met tribal data needs
- CDC data are not centralized and standardized
- Native American indicators are often unavailable

Improvements

- Reworking systems to expand data availability and access
- Centralizing and standardizing through Data Modernization
- Increasing data completeness of tribal affiliation and race

GAO Recommendations

Agency Affected	Recommendation
Department of Health and Human Services (HHS)	The Secretary of HHS should develop a policy clarifying the HHS data (including monitoring systems, delivery systems, and other protected health information) that are to be made available to TECs as required by federal law.
CDC	The Director of CDC should develop written guidance for TECs on how to request data. Such guidance should include information on data potentially available to TECs, how to request data, agency contacts, criteria the agency will use to review such requests, and time frames for receiving an agency response to data requests.
CDC	The Director of CDC should develop and document agency procedures on reviewing TEC requests for and making data available to TECs. These procedures should include a description of data potentially available to TECs, agency contacts, criteria for reviewing TEC data requests, and time frames for responding to TEC requests.

GAO Recommendations

Agency Affected	Recommendation
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IHS	The Director of IHS should develop and document agency procedures on reviewing TEC requests for and making data available to TECs. These procedures should include a description of the data available to TECs, agency contacts, criteria for reviewing TEC data requests, and time frames for responding to TEC requests.

Thank you!

For more information, contact CDC 1-800-CDC-INFO (232-4636) TTY: 1-888-232-6348 www.cdc.gov



The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.