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

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Director CDC's Center for Surveillance, Epidemiology, and Laboratory Services (CSELS)







## 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

•





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<sup>™</sup> Team conducted individual **Tribal technical assistance sessions** that ranged from general orientations to technical screen sharing collaborations.

- The Epi Info<sup>™</sup> 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**

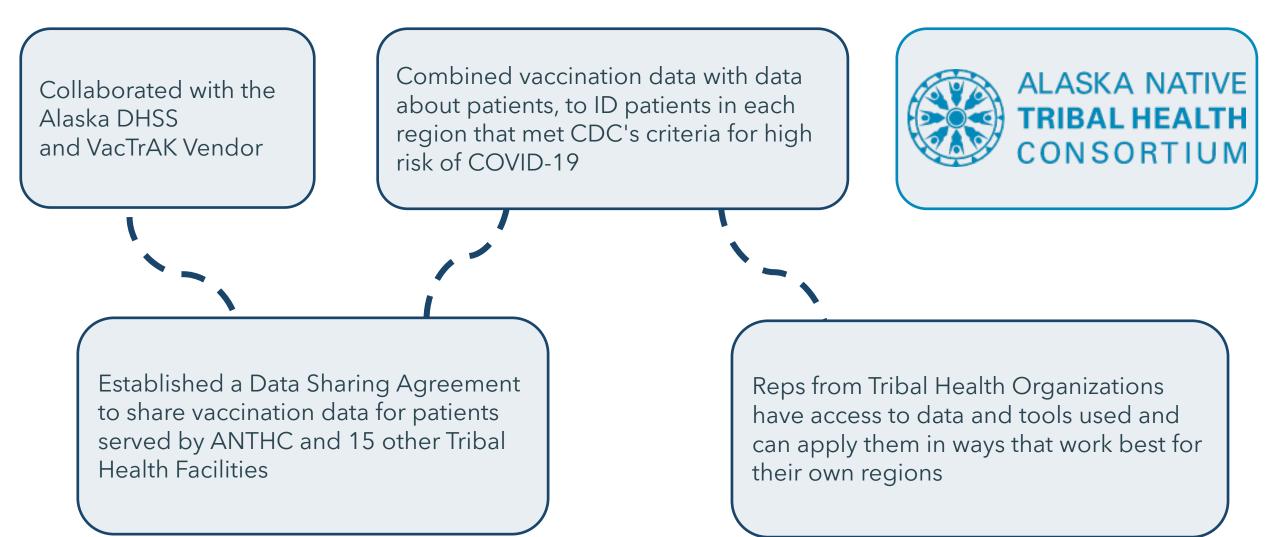
- Electronic Case Reporting
- Laboratory Data Exchange
- Case Surveillance Modernization

- Syndromic Surveillance Enhancement
- Data Science Workforce and Upskilling

# Accelerating Public Health Data Modernization in Tribal Jurisdictions

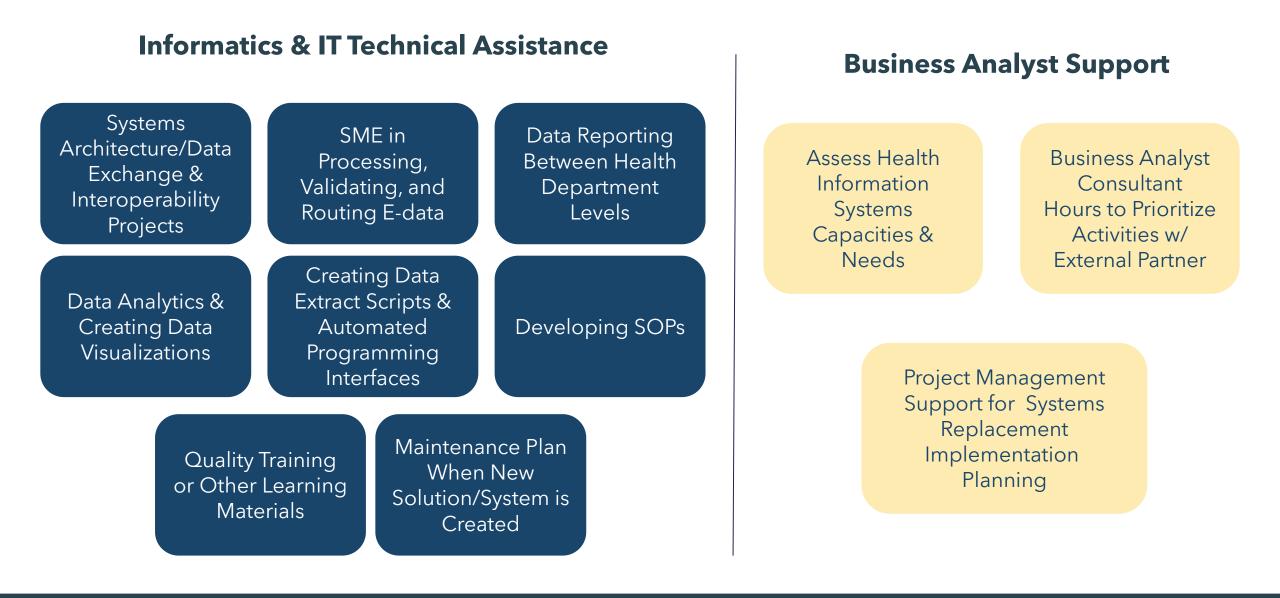
| Alaska Native Tribal<br>Health Consortium      | <ul> <li>Automating integration of immunization registry data into<br/>population health data feeds, creating dashboards, and<br/>providing training to users on newly created analysis tools</li> </ul> |
|--|--|
|  |  |
| Northwest Portland Area<br>Indian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

## 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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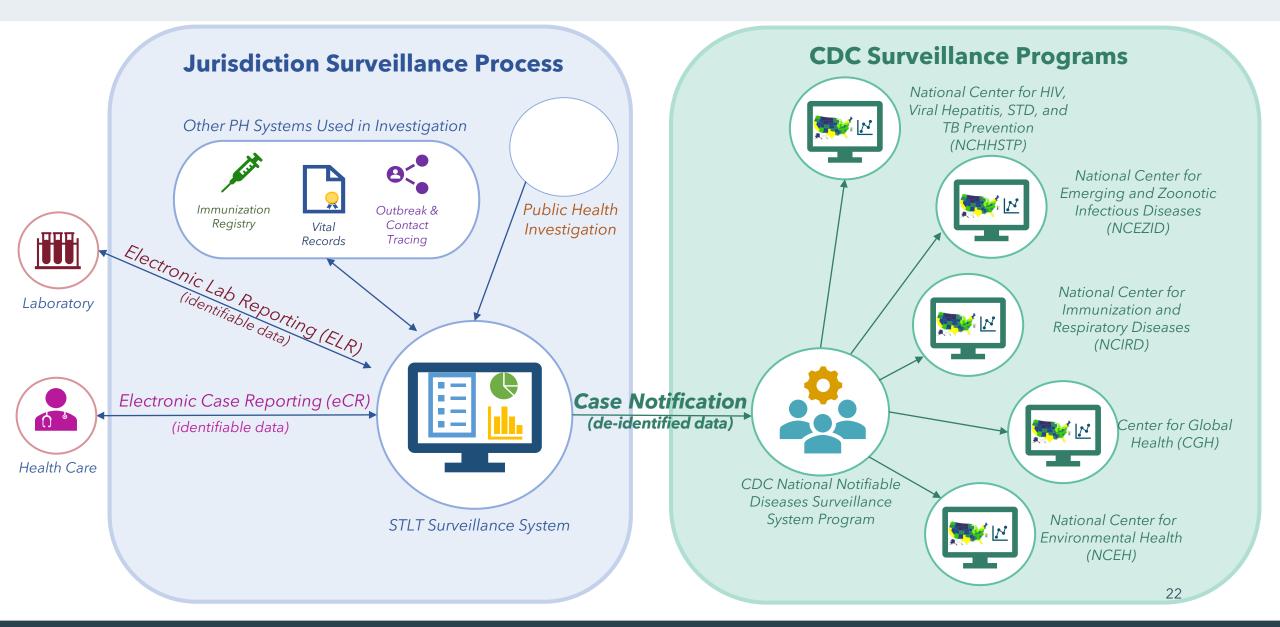
#### Lesliann Helmus, MS, CHTS-CP (she/her/hers)

Associate Director for Surveillance CSELS, Division of Health Informatics and Surveillance

#### Georgia Moore, MS (she/her/hers)

Associate Director for Policy Center for State, Tribal, Local and Territorial Support

## **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<br>(HHS) | The Secretary of HHS should develop a policy clarifying the HHS data<br>(including monitoring systems, delivery systems, and other protected health<br>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<br>request data. Such guidance should include information on data potentially<br>available to TECs, how to request data, agency contacts, criteria the agency<br>will use to review such requests, and time frames for receiving an agency<br>response to data requests. |
| CDC  | The Director of CDC should develop and document agency procedures on<br>reviewing TEC requests for and making data available to TECs. These<br>procedures should include a description of data potentially available to TECs,<br>agency contacts, criteria for reviewing TEC data requests, and time frames for<br>responding to TEC requests.  |

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# 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.