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Preconference: Data Modernization in Motion Welcome and Opening

Aug. 18, 2025 | 2025 ARC Preconference

SHAPING TOMORROW'S PUBLIC HEALTH TODAY.

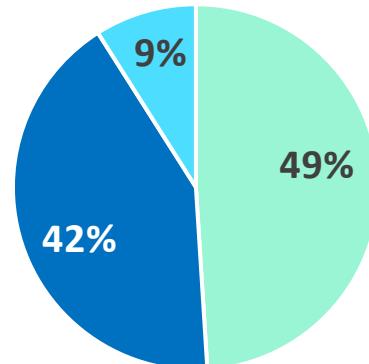
Welcome to the ARC Preconference: Data Modernization in Motion



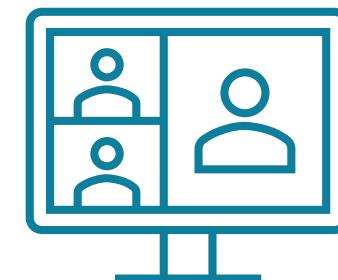
Joining us today...



Over 80 PHAs
participating in-
person



- State Health Agencies
- Local Health Agencies
- Territories and Freely Associated States



Over 50 PHAs joining
us virtually



Over 30 Partner
Organizations
represented

Preconference Agenda: Today

1:00 p.m. **Plenary:** Welcome and Opening

2:15 p.m. **Plenary:** Jurisdictional
Perspectives on Wave 1 of the IC
Program

4:00 p.m. **Concurrent Sessions**

- Leveraging AI to Advance Public Health Data Infrastructure
- Operationalizing Governance Frameworks

5 p.m. **Networking Reception:** Data
Modernization in Motion

Featured Speakers: Data Modernization Leaders from across the Nation

- 13 State Health Agencies
- 4 Local Health Agencies
- 3 Territorial/Freely Associated State Health Agencies
- Washington D.C.
- CDC
- Public and private sector partners

Preconference Agenda: Tomorrow

8:30 a.m. **Peer Networking Breakfast:**
Hashbrowns & High Tech

4:00 p.m. **Concurrent Sessions**

- Enterprise Evolution: Enhancing Public Health Practice through Shared Data Solutions
- Open-Source Solutions for Public Health Innovation

5 p.m. **Closing Plenary:** Advancing Data Modernization Roadmaps with a Sustainability Lens

Featured Speakers: Data Modernization Leaders from across the Nation

- 13 State Health Agencies
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Opening Bytes: St. Louis, Strategy and a Side of Toasted Ravioli

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SHAPING TOMORROW'S PUBLIC HEALTH TODAY.

Session Objectives

- **Reflect on the successes and challenges** encountered in the data modernization journey as shared by the CDC and PHIG.
- Recognize the **current data modernization priorities and goals** of OPHDST, including how they align with the Public Health Data Strategy.
- Acknowledge the **evolving landscape** of public health data modernization, including the implications of recent engagements with HHS leadership and the national focus on maximizing impact.

Speakers



Sara Patterson

Acting Director, Public
Health Infrastructure
Center, CDC



Jennifer Layden

Director, Office of
Public Health Data,
Surveillance, and
Technology, CDC



J.T. Lane

Former State Health Official,
Louisiana | Managing
Director & Public Health
Practice Lead, Premier Inc.

Sara Patterson

Acting Director, Public Health
Infrastructure Center CDC



Jennifer Layden MD, PhD

Director, Office of Public
Health Data, Surveillance, and
Technology, CDC





Establishing an Interconnected Public Health Infrastructure

August 18, 2025

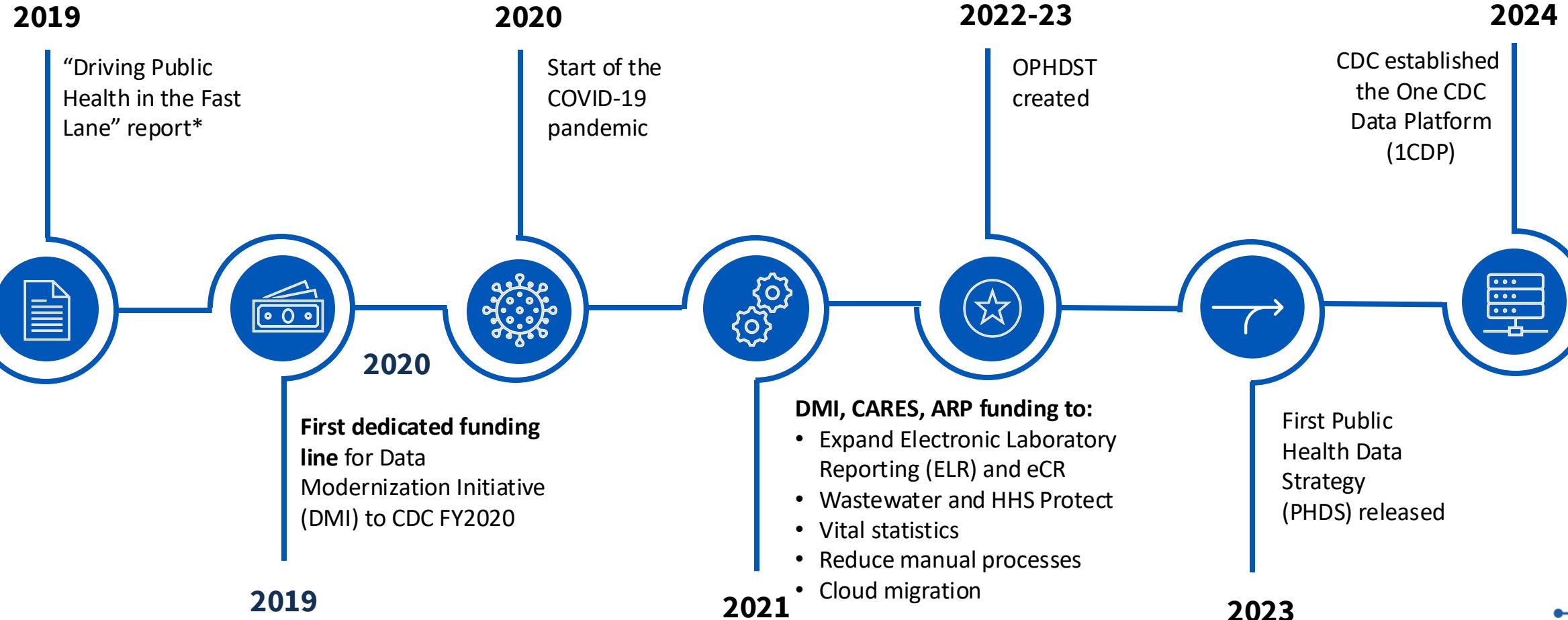
PHIG Annual Recipient Convening

Jen Layden, MD, PhD

Director of Office of Public Health Data, Surveillance, and Technology (OPHDST)
US Centers for Disease Control and Prevention (CDC)

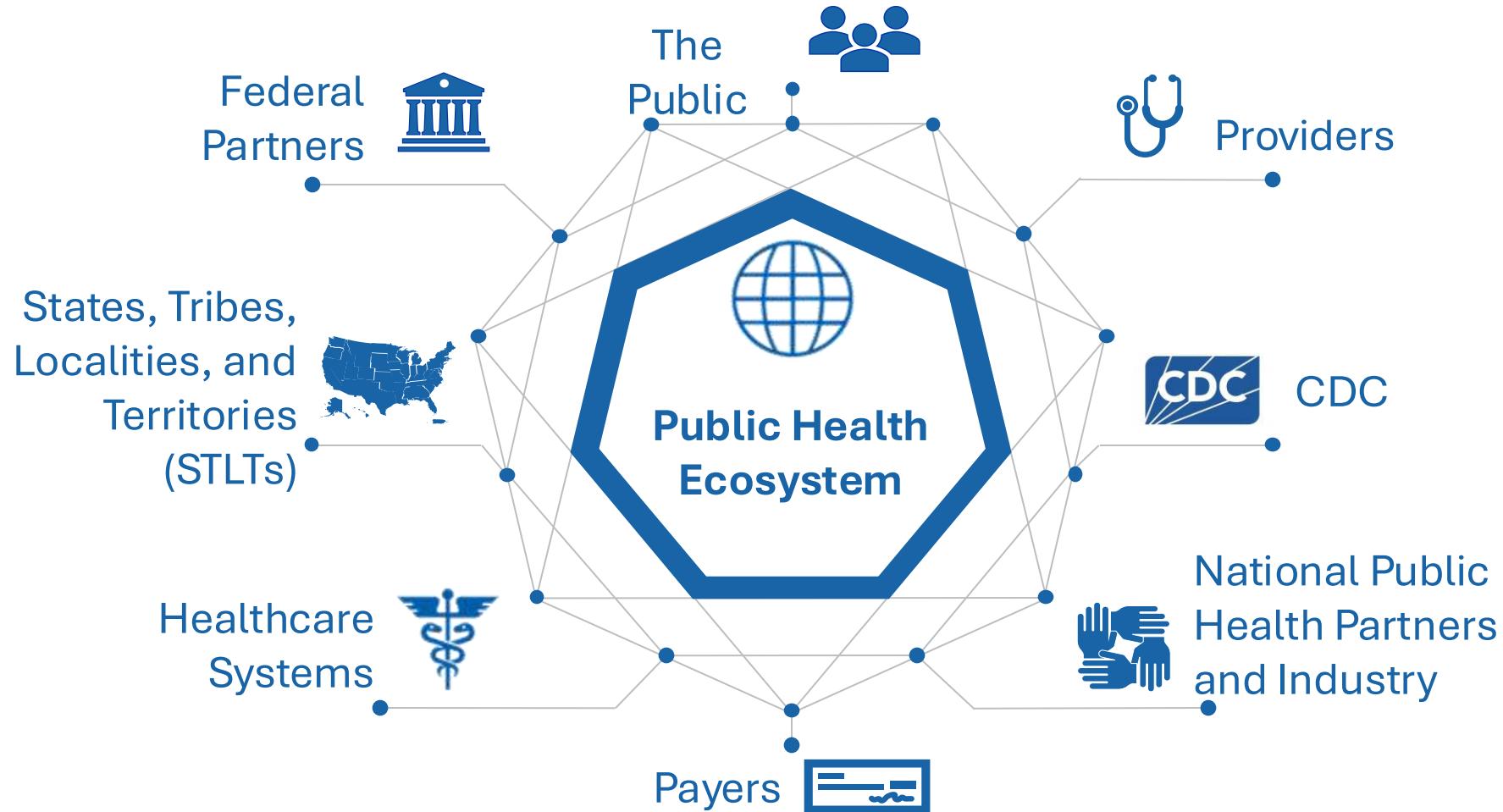


Data Modernization Effort Started in 2019

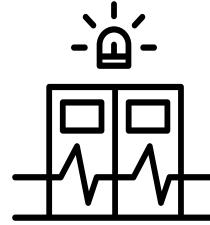


*"Driving Public Health in the Fast Lane: The Urgent Need for a 21st Century Data Superhighway." <https://www.cste.org/page/DM-2021>

Modernization work happens across entire ecosystem



Data Modernization Is Leading to Better, Faster, Transparent Data to Protect and Improve Lives



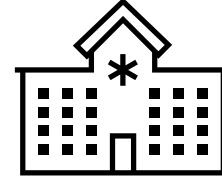
Emergency Department

- >88% of ED visits nationally
- Data received within **24 hours**



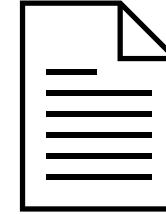
Labs

- **700,000** commercial lab tests (per day)
- 167 conditions+



Electronic case reporting

- **56,000+** data connections
- Within **seconds**
- Over 200 conditions



Mortality

- Improved **speed**: 11% ➔ 69% records in 10 days
- **Weekly** provisional release (compared to monthly)



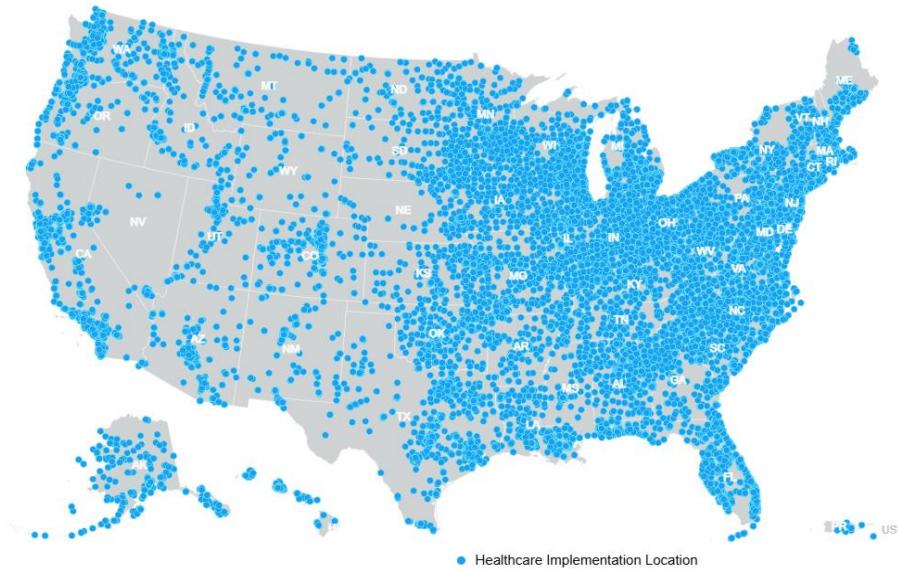
Wastewater

- **1500+** sites
- COVID-19
- Flu
- RSV
- Mpox
- H5N1



Early Warning Advances Improve Situational Awareness

Electronic Case Reporting (eCR)



Number of healthcare facilities sending eCR

Before Data Modernization Current State

187 → 56,000+

Number of hospitals sending

28 → 3,316

Number of critical access hospitals sending

6 → 715

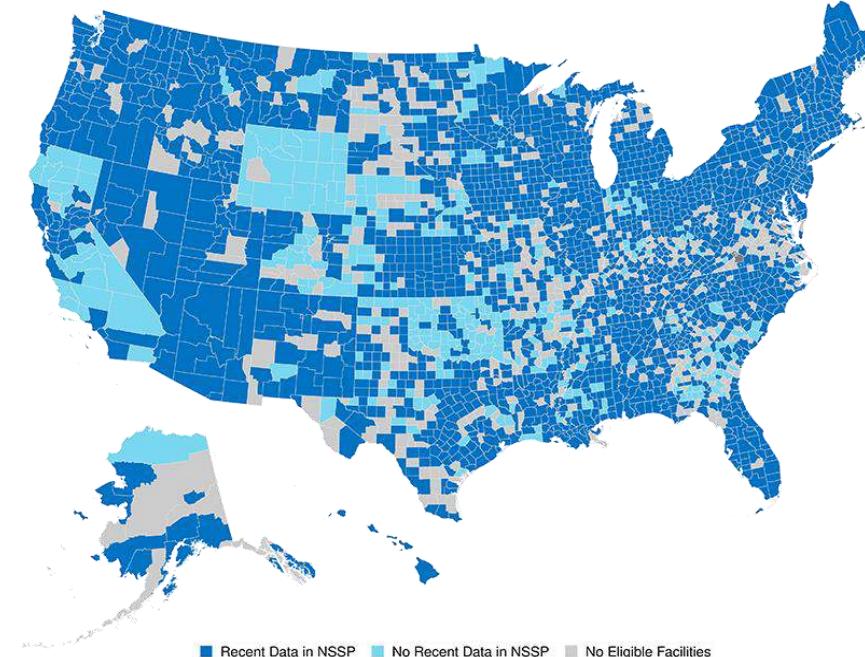
Number of diseases/conditions sent by eCR

5 → 243



National Syndromic / ED data

Non-federal Emergency Care Participation in the National Syndromic Surveillance Program: March 1, 2024 to June 1, 2025.



Before Data Modernization Current State

Number of facilities contributing daily

4,000 → 7,200

Percentage of EDs reporting

64% → 84%

Number of states participating

45 → 50



One CDC Data Platform protects lives, reduces costs, increases efficiencies, and consolidates siloed systems



2010
CDC's pilots a Commercial Off the Shelf Palantir platform used by the **intelligence community** to investigate and respond to foodborne outbreaks.



2020-2022
Platforms support **infectious disease surveillance and response** for **4,000+ federal, state, tribal, local, and territorial (STLT) users**.
HHS Protect / DCIPHER



OCT 2024
CDC consolidates investments into **One CDC Data Platform (1CDP)** and overhauls **technology and data governance** to reduce duplication and waste.



May 2025

1CDP supports 36 programs with centrally managed data and reusable capabilities for both **day-to-day surveillance and emergency response**.

1CDP's interagency hub allows coordination with agency partners for whole-of-government initiatives and response.

10,000 total users
as of August 2025

30+ other Federal agencies collaborating via 1CDP

600+ STLT partners / orgs collaborating in 1CDP

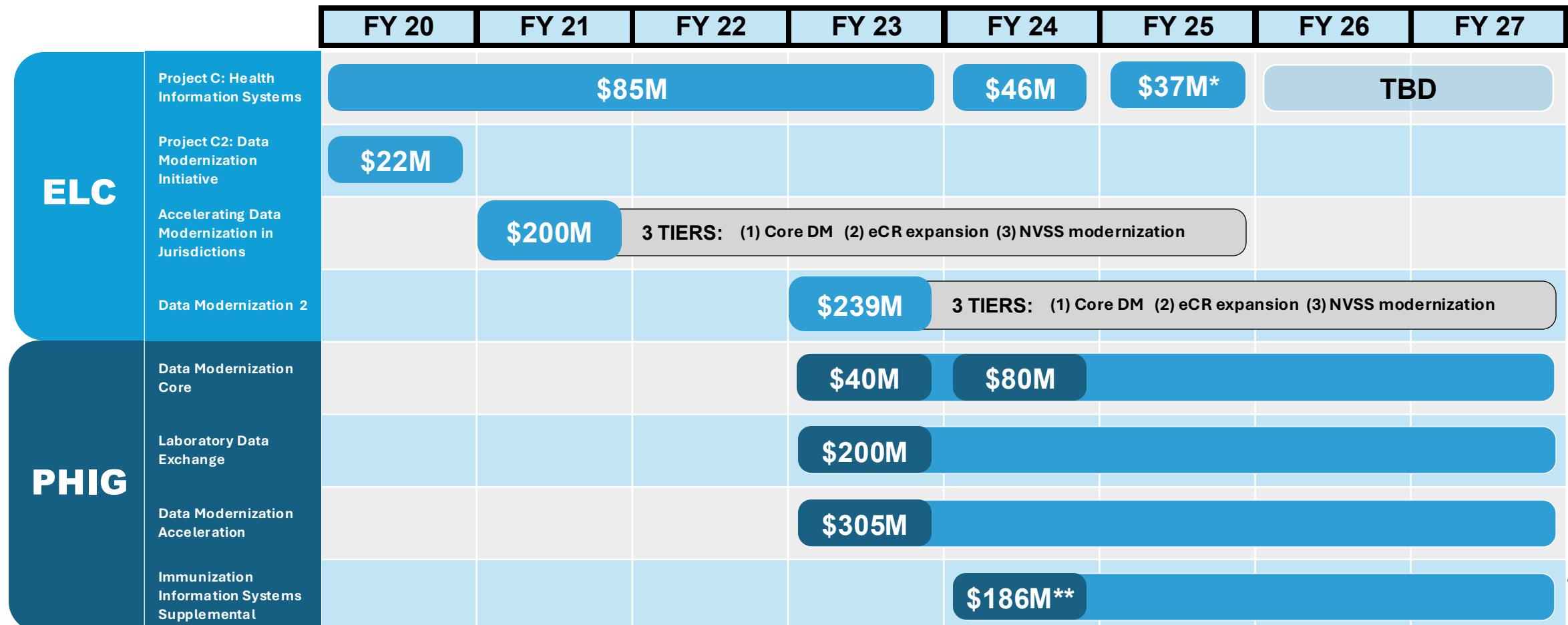
~750 system connections





Continuing the data modernization
effort:
Supporting public health agencies

Significant investments in STLT data modernization



* Preliminary amounts

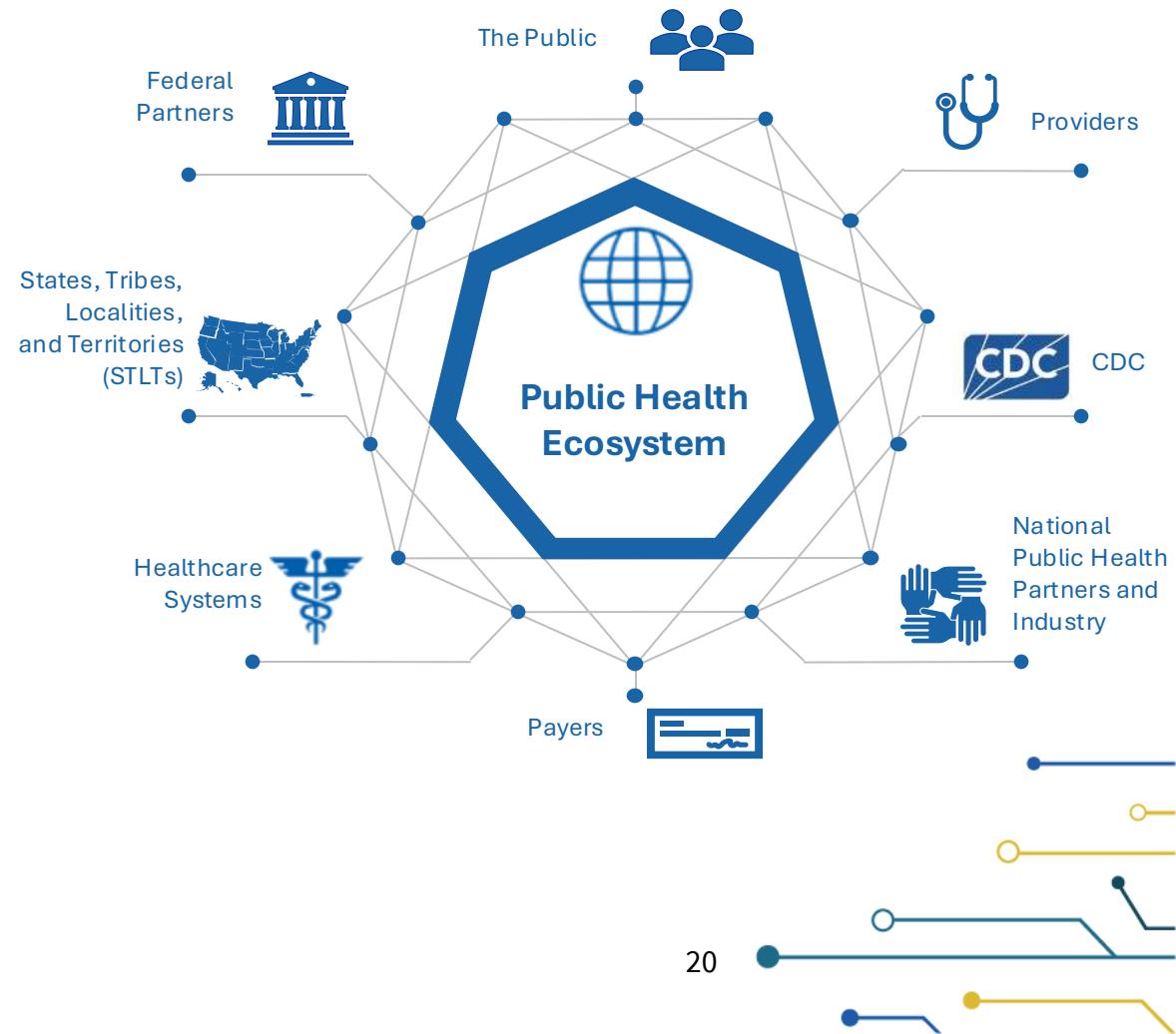
** Funding from NCIRD



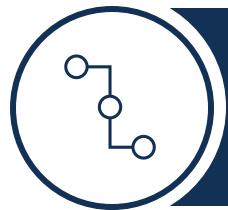
Transformation takes time

Comprehensive and dynamic approach that **continually evolves**:

- **People:**
 - Who uses the data? What do they need?
 - How does our workforce change?
- **Processes:**
 - Streamline and simplify processes
 - Outdated processes?
- **Technology:**
 - Harness technological innovation
 - Leverage partnerships



Data Modernization Support



Data modernization technical assistance



Implementation Center Program



Workforce Acceleration Initiative



Technical solutions (e.g., DIBBs)



Core Data Use Agreement and support



Resources

Artificial Intelligence (AI) and Machine Learning (ML): Applying Advanced Tools for Public Health



SPEED UP THREAT DETECTION

Rapid response to multistate outbreaks of foodborne and animal-related disease



IMPROVE OUTBREAK RESPONSE

Detect Legionnaires' disease by identifying cooling towers from aerial imagery.



OPTIMIZE PROCESSES

Reduce manual burden, freeing up time



DISCOVER PATTERNS

Identify predictors of clinical outcomes from clinical data.



Evolving our public health data future together

Advancing Data for Public Health Action needs everyone



We need your input on this vision



Opportunities to join pilot projects and learn more





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.

Directors' Corner: Moderated Discussion



Thank You!

Up Next | Break

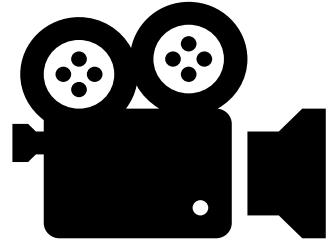
2:15pm Central Time | Return for our next plenary session –

***Aligning Efforts for Modernization:
Jurisdictional Perspectives on Wave 1 of the IC
Program***



Share Your Story!

IC Program Interviews: Wave 1 Participants



We Want to Hear from
You!

Short, 5–7 minute interviews with
Wave 1 PHAs & IC Program partners

When: Mon 8/18 – Thurs 8/21

Where: Sterling 5 (2nd floor)

*Sign up by scanning the QR Code,
or come find us during a break!*

