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# Introduction and Background

 CDC's Data Modernization Initiative (DMI) To accelerate data and health information system modernization efforts and improve public health outcomes by increasing the timeliness of public health response.

#### WADOH's Data@Health Initiative: Modernize disease surveillance systems and the overall health information system infrastructure with improved data management, governance, and analytics capabilities.





## How it Started

- WADOH Completed Public Health DMI Assessment in Fall 2021
- CDC requested additional/clarifying information
- WADOH asked University of
  Washington/Northwest Center for Public Health
  Practice to assist with CDC request

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### The Expanded DMI Assessment

- UW expanded on the original DMI assessment survey to focus on data infrastructure, systems, and workforce
- UW conducted a comprehensive assessment across WA including a sample of LHJs
  - Purpose: to learn more about workforce training needs as they relate to DMI goals and objectives
  - Developed semi-structured interview guide
    - Perceptions on interactions with DOH systems
    - Workforce needs and capacity-building
    - Training priorities to support data modernizations
- 30 staff at DOH and 38 staff from 13 LHJs participated in interviews





## Gap Analysis

Gaps were identified as instances where state and local key respondents identified resources, infrastructure, or processes that did not align with or support the CDC DMI priority objectives

#### Gap Analysis Protocol:

- Understand the current state of surveillance systems
- Capture insights and recommendations from users to define the desired end state
- Conduct gap analysis to reveal differences between the current and desired states

Develop recommendations to close identified gaps & prioritize next Steps

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## Gap Analysis – Overall Findings

To progress toward DMI goals we need:

- Improved interoperability and break down of unnecessary data silos
- Reduced burden on end users to move data into action
- Adequate staffing, training, and workforce support to tackle burnout
- Meaningful engagement between DOH and LHJs
- To prioritize communication, change management, and governance





#### **Question for the Viewers**

Which of the following would you consider the highest priority for you/your organization?

- A. Improved interoperability and break down of unnecessary data silos
- B. Reduced burden on end users to move data into action
- Adequate staffing, training, and workforce support to tackle burnout
- D. Meaningful engagement between DOH and LHJs
- E. To prioritize communication, change management, and governance
- F. Not sure
- G. Other (type in chat)





## Key Competencies Considered

- de Beaumont Foundation's Public Health Strategic Skills
- CDC DMI Competencies
- Proposed UW Curriculum for Applied Data Science in Public Health

#### Learning Framework and Plan

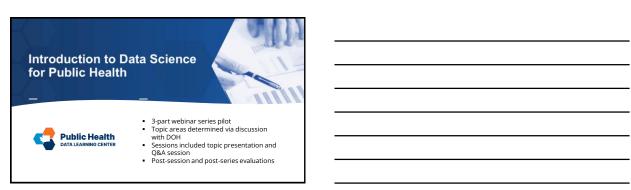
Public Health Learning Agenda Framework

Focused on Impact Level 1 (learning for knowledge change)



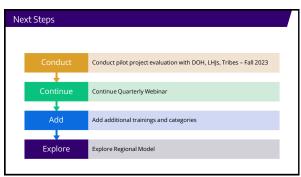
- Part 1: Introductory overview of data science and its application in public health practice
- Part 2: LHJ data science case study
- Part 3: DOH data science case study

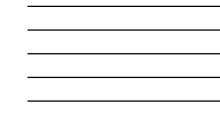
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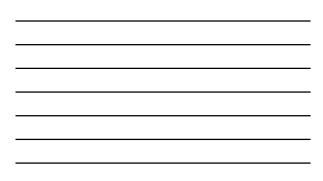
# Key Takeaways

- To successfully implement data modernization, we must invest in people, processes, and technology.
- Communication and collaboration between DOH and LHJs and other partners are critical to identifying priorities for data modernization.
- Workforce development priorities identified by DOH and LHJ participants include effective communications, systems thinking, leadership skills, and improving policy knowledge.

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#### Resources

CDC Data Modernization Initiative https://www.cdc.gov/surveillance/data-modernization/index.html WA DOH Data Modernization Initiative Project Planning https://doh.wa.gov/data-modernization-initiative-project-planning

Public Health Data Learning Center Website www.phdatalearn.uw.edu