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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

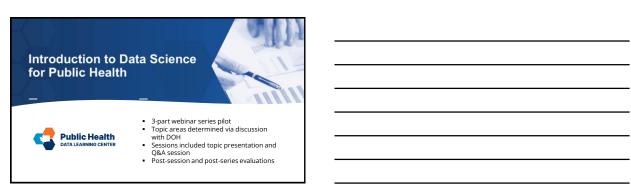
Public Health Learning Agenda Framework

Focused on Impact Level 1 (learning for knowledge change)



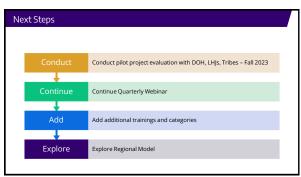
- Part 1: Introductory overview of data science and its application in public health practice
- Part 2: LHJ data science case study
- Part 3: DOH data science case study

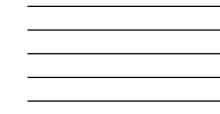
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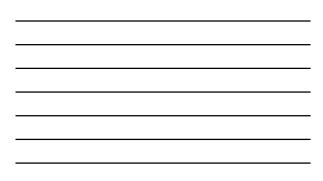
Key Takeaways

- 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