

# CSTE Data Science Team Training (DSTT)

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September 7, 2023

3:00 – 3:30 PM ET



Council of State and Territorial Epidemiologists

# Agenda



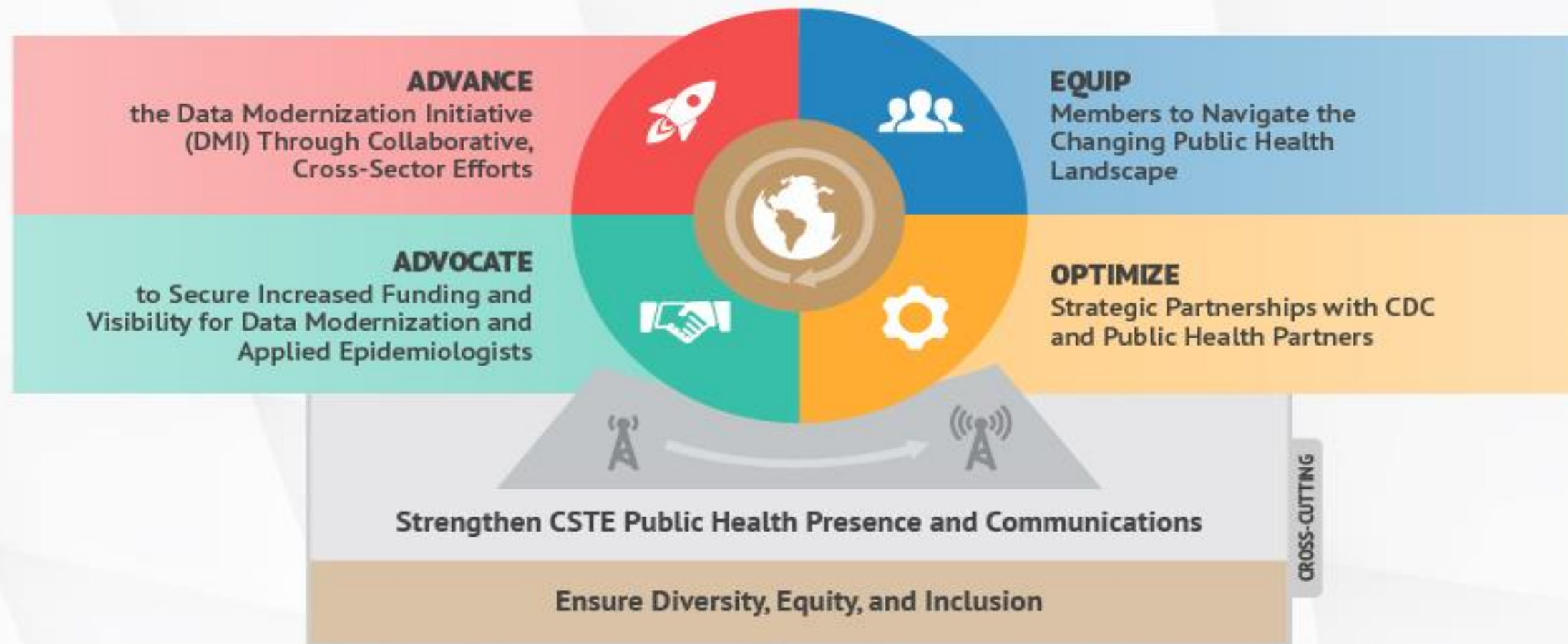
- About CSTE
- Workforce development & training opportunities
  - Data Science Team Training (DSTT) program
    - Ying Zhang
- Questions

# About CSTE



- The Council of State and Territorial Epidemiologists (CSTE) is an organization of member states and territories representing public health epidemiologists.
- CSTE acts as the professional home for applied epidemiologists representing multiple levels of public health practice. Active members are engaged in the practice of epidemiology for a governmental public health authority at the state, local, tribal, or territorial level.
- Vision
  - Using the power of epidemiology to improve the public's health

# CSTE Organizational Priorities



# Data Science Team Training (DSTT)



- 12-month virtual training program for teams comprised of epi's and staff at state, territorial, local, and tribal (STLT) health agencies
  - Learners should anticipate 5-8 hours of program activity per month
- Project-based learning
- Multiple learning components
  - Asynchronous online coursework through Coursera
    - CSTE has a curated library to help determine what courses would be helpful
  - Project coaching from subject matter experts
    - Each team is matched with a coach
      - We attempt to align the coach's skills to the team needs, but it may not align perfectly
  - Monthly workshops
    - Led by the coaches with a different topic each month.

# Data Science Team Training (DSTT)



Program basics continued:

- Peer learning community
  - CSTE Connect is our learning community and is a place for teams to share, discuss, and ask questions of other teams.
    - It is also a place where program documents/discussion can be found.
- CSTE membership included for the program year
- Training stipend (Professional Development funds)-approximately \$10,000 per team
- Bootcamp course

# Data Science Team Training (DSTT)



- Eligibility Requirements
  - Teams of 3-5 people, at least one health department epidemiologist (or similar job title)
  - Project should address a data science need
  - Ready to dedicate time to the program: **5-8 hours per month**
  - CSTE will select a minimum of **20** teams to participate



# Goals



- Overall goals
  - Advance the priorities of the Data Modernization Initiative
  - Upskill the applied epidemiology workforce in data science
- 2024 cohort
  - This year we specifically want to encourage teams that have traditionally been underrepresented or have lower capacity, such as tribal health agencies or those focusing on diversity, equity, and inclusion, to apply.
  - If your agency is smaller or has less capacity, we do entertain joint applications between health departments and other partners (local universities or tribal health departments/agencies are good examples)



- Timeline
  - Application deadline is October 6, 2023
  - Notification of acceptance by December 8, 2023
  - Orientation held early to mid-January 2024
  - Program activities ongoing through 2024
    - Monthly live workshops, team project work, working on online courses
  - Conclude with final presentations in December 2024

- 2023 DSTT Participant
- Southern Nevada Health District
- Exploration of Data Science Toolbox to Support the Implementation of the Cardiff Violence Prevention Model in Clark County, Nevada
- Project Description
  - Apply data science tools (include but not limited to data mining, natural language processing, machine learning, advanced modeling, data visualization, and dashboard development) in the context of the Cardiff Violence Prevention Model.
    - The Cardiff Model relies on the strategic use of information from health and law enforcement organizations to improve policing and community violence prevention programs using information sharing.
  - The goal of our project is to build a community violence map that can be shared with stakeholders, such as healthcare, law enforcement, public health agencies, other government agencies, and community organizations, to inform resource allocation and decision making.

# Data Science Team Training (DSTT)



- More information about the program & information on projects from current teams can be found on the CSTE website. The link to the application will be live on 9/11, the day it opens.
- Contact us by email:
  - [dstt@cste.org](mailto:dstt@cste.org)
- DSTT webpage:
  - <https://www.cste.org/page/dstt-webpage>

# Questions?



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## Fellowships

Applied Epidemiology Fellowship (AEF)

Applied Public Health Informatics Fellowship (APHIF)

## Training

CSTE LEAD

CSTE Learn

Data Science Team Training Program (DSTT)

Early Career Mentorship Program



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