

# City participation in Colorado's Wastewater Surveillance Program

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## Water Quality Services Division

To provide high-quality laboratory and watershed services that meet the needs of our customers, our community and the environment.

# Colorado's Wastewater Surveillance Program

Ft. Collins City Council Meeting  
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Co-Director, Colorado Wastewater Center of Excellence

# What is wastewater surveillance?



Method that tracks disease trends by monitoring infectious pathogens shed by individuals into wastewater systems



Find early signs of diseases in a community without needing to test each person



Helps health care providers and local public health agencies allocate resources



Wastewater surveillance provides additional data that could inform us about our community health

# Benefits and limitations

## BENEFITS

- Helps people understand the risk of disease in their communities
- Able to find cases of illness in people that may be asymptomatic
- Allows for allocation of resources
- Fills clinical surveillance gaps

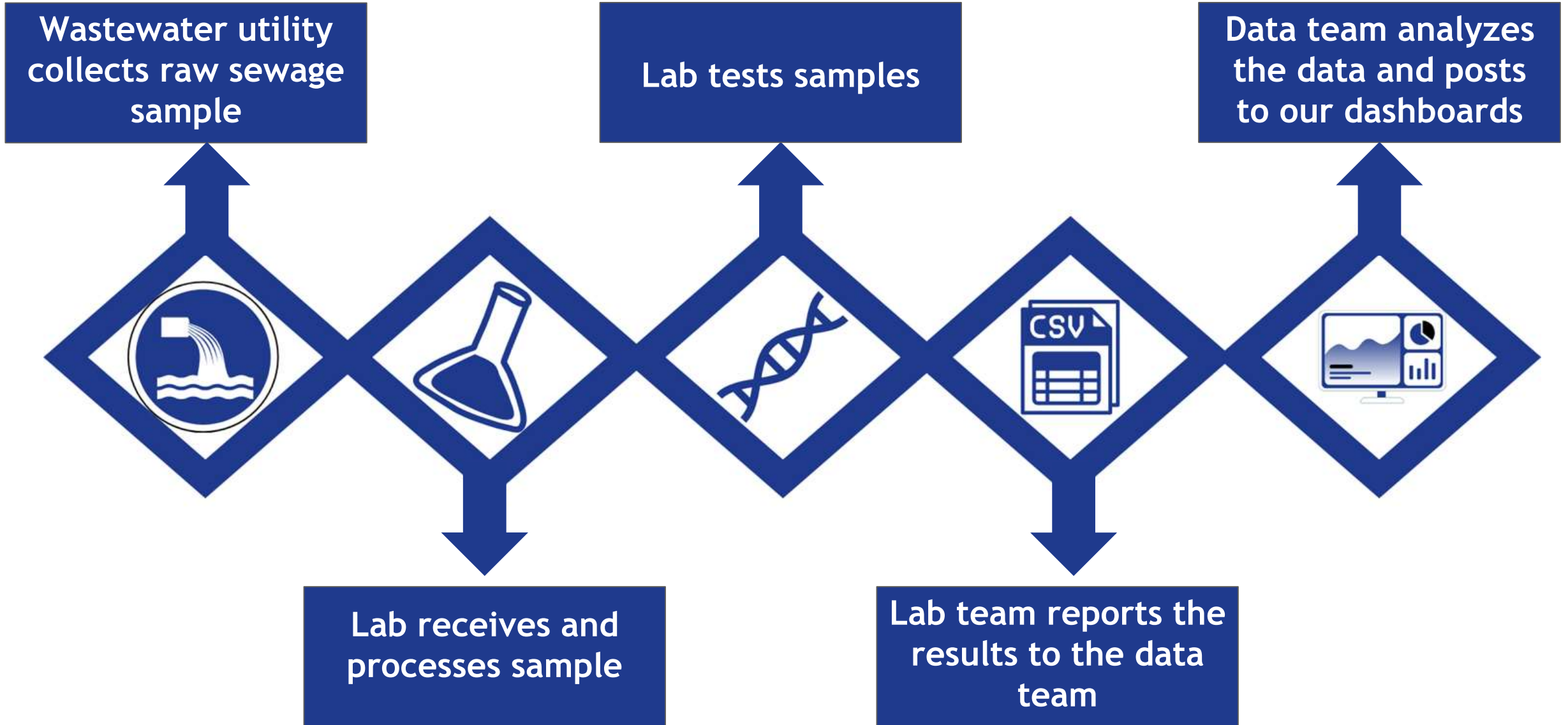


## LIMITATIONS

- Not able to capture homes on a septic system
- Population movement patterns
- Shedding patterns vary among individuals and pathogens



# Wastewater surveillance process

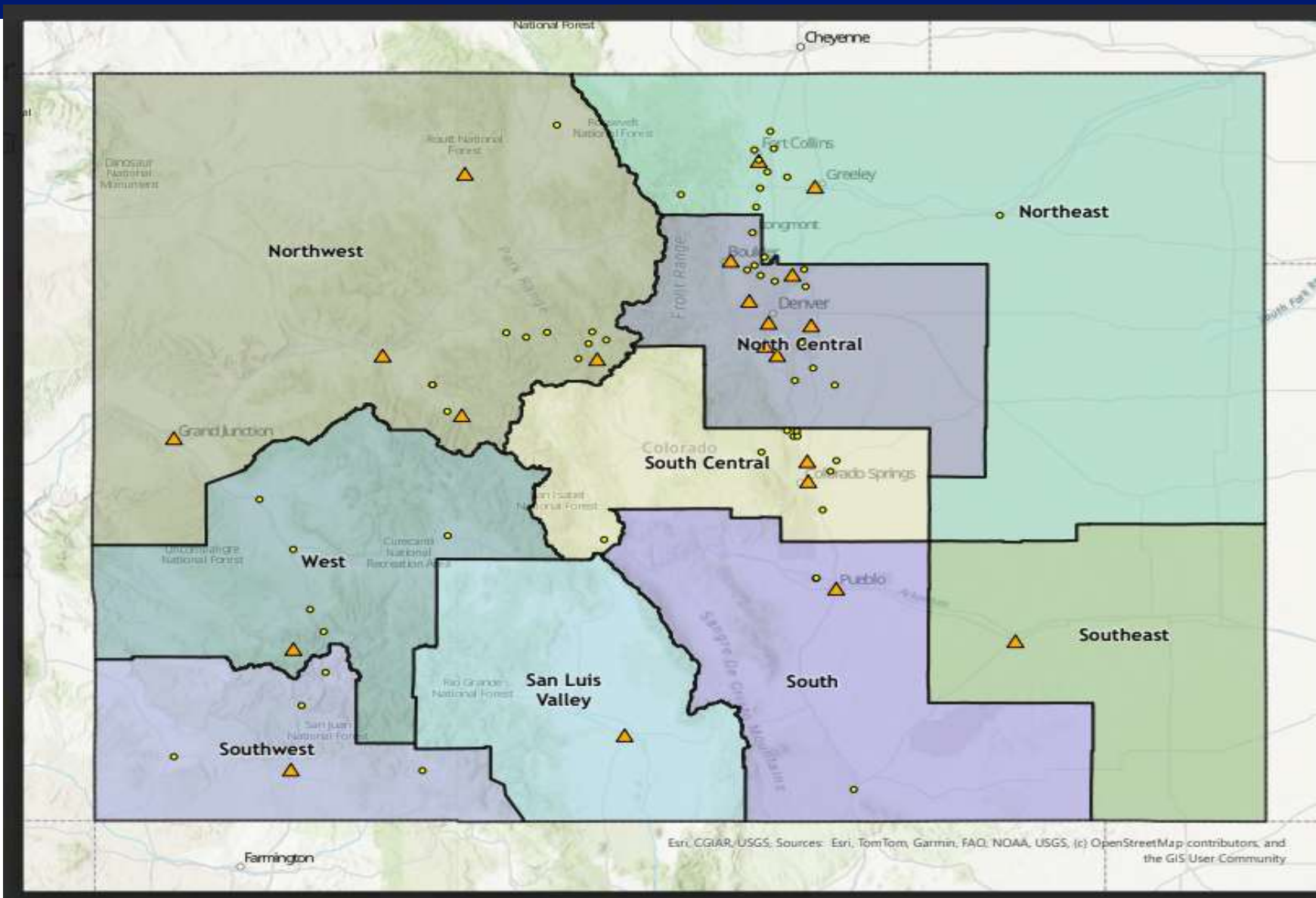


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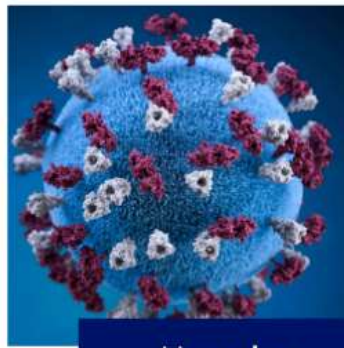
# Current program model

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# Sentinel surveillance sites and emergency surveillance sites



# Current targets



Measles



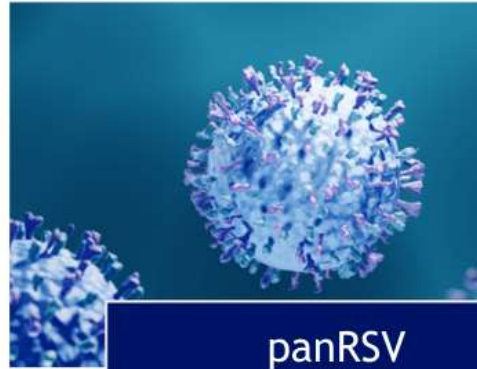
Enterovirus D68 (EV-D68)



SARS-CoV-2



Candida auris



panRSV



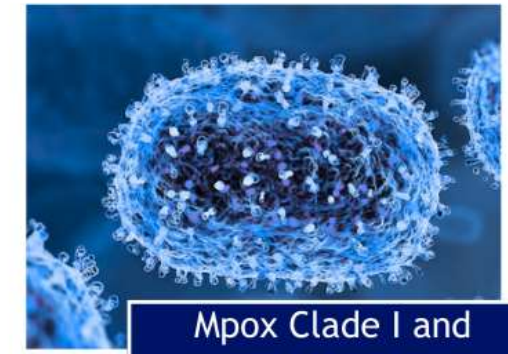
West Nile Virus



Antimicrobial resistant genes



Influenza A/B



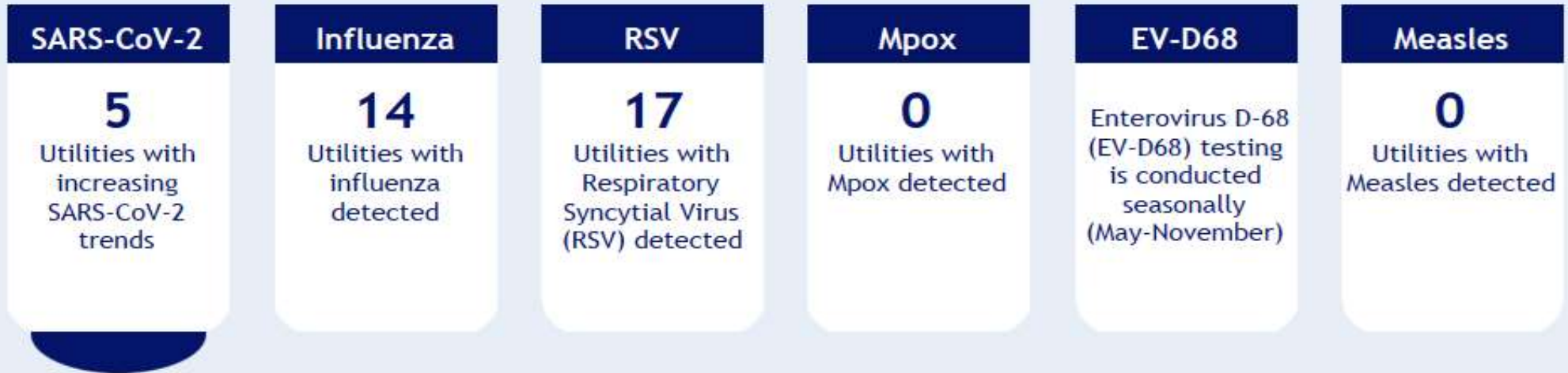
Mpox Clade I and Clade II

# Public dashboard

## Colorado Wastewater Surveillance Data

The Colorado State Department of Public Health and Environment (CDPHE) Wastewater Surveillance Program collaborates with wastewater utilities to test for infectious pathogens, including COVID-19, Influenza, Respiratory Syncytial Virus (RSV), Enterovirus D68 (EV-D68), Mpox, and Measles in wastewater. These pathogens may be shed in the wastewater before someone shows any symptoms, and individuals without symptoms can also shed virus particles. Testing wastewater provides complementary surveillance data to existing systems.

*Please click on a pathogen below for more data:*



# Questions?

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**COLORADO**  
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