

Wastewater Data Challenge

Project Guide

Names:

Date:

[The Tech for Global Good](#) is an initiative to create the next generation of innovators ready to tackle the toughest challenges facing our planet. From 2023-24, the program honored BioBot Analytics for their use of technology and data to significantly advance health equity and improve lives.



The Tech
for Global Good

[BioBot Analytics](#) monitors wastewater to detect viruses, high-risk substances, and other risks to community health. Their technology provides early warnings, enabling communities to take action and prevent health threats from turning into major crises.

As you watch the videos, consider:

<p>What problems are they trying to address?</p>	
<p>What data did they collect?</p>	
<p>How did they use that data?</p>	
<p>Other notes</p>	

Wastewater Data Challenge Scenario:

You and your team work for the public health department of your city. You want to ensure that your community is safe and healthy. As part of your duties, you monitor and analyze data about the wastewater within your city to detect viruses, high-risk substances, and other risks to community health.

- First, you will examine the latest reports to look for trends and patterns in the data.
- Then you will make recommendations of actions that will prevent health threats from turning into major crises.
 - Make sure you consider what data you will base these decisions on.
- Once you have some ideas for action, you will present them to the city planners for your region. They will listen to your ideas and give you feedback.



Analyze the Data

As you examine the data sets about your city, use this space to take notes.

What do you notice?

What do you wonder?

Take notes on some of the things you notice and questions you have as you compare data across the different areas.



Design Sprint

Brainstorm some of the actions that could prevent health threats from turning into major crises in your city.

- Consider the data you will base these decisions on.



Share Ideas

	Presenters (Public Health Officials)	Audience (City Planners)
1 min	Present their ideas.	Silently listen. Take notes.
4 min	Respond to questions.	Ask questions and give feedback.
	Switch roles.	

Feedback from the other team	Notes for the other team