Investment in data science is crucial for building health system resilience and pandemic preparedness

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5
Cities

6500+
Samples tested

23 Million
People Covered

10+
National & Global Forum

14+
Alliance Members

26+
Partners Engaged

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1

Data science produces timely and actionable insights

Wastewater surveillance coupled with **data science** creates significant impact

Precision Health is an environmental surveillance platform operational in 5 cities in India covering a population of almost 23 million people

We predicted the third wave of COVID-19 in Bangalore a week in advance using data science models

Government of Bangalore took timely action using wastewater surveillance to mitigate effects of COIVD-19

2

Data science can further equity

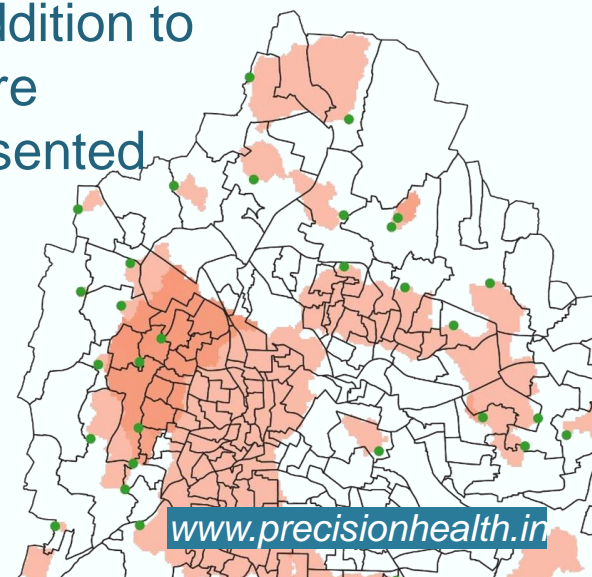## **Vulnerability mapping** using GIS ensures equity

We use GIS models to map regions of population   which are highly vulnerable to infections diseases

This allows us to ensure representative sampling of wastewater sites

We sample open drain sites in addition to sewage treatment plants to ensure vulnerable populations are represented

3

Need to come together as a tribe

Shared global value system for data across the world

- There is a clear need for a shared global value system for data

- Funding to create digital public goods for environmental surveillance is the need of the hour

- We need to come together to share best practices, technology and in cases even data so that we can learn from each other and grow as a community
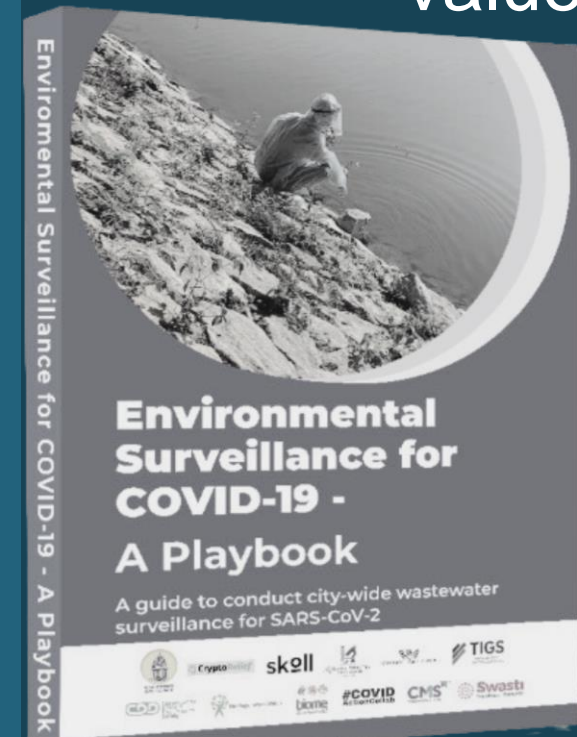
1 Early detection of diseases via predictions for action

2 Ensure equity

3 Shared global value system

Dashboards are **great** but **going beyond** to **predictions via data science** is important to ensure **equity** and **timely actions** for public health action.

"When you solve for the poorest , you solve for everyone"

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Scan to access Environmental Surveillance for COVID-19 - The Playbook