The background features a large, stylized green logo consisting of concentric, overlapping shapes that resemble a palm vein scan or a series of nested teardrops. The logo is composed of several layers of green, with the outermost layer being a darker shade and the innermost being a lighter shade. The overall shape is roughly circular but with a pointed top and bottom, creating a sense of depth and movement.

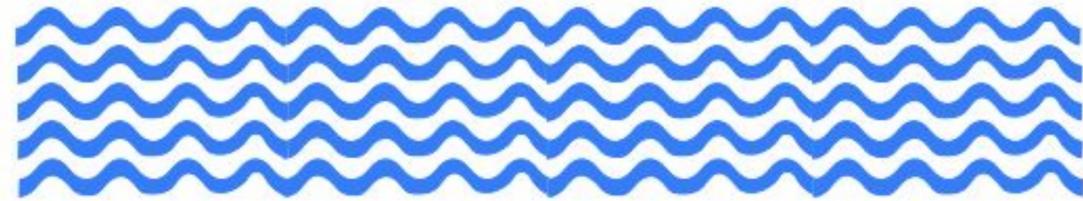
# OmniVis

POWER OF THE LAB IN THE PALM OF YOUR HAND

CHOLERA DETECTION

IN WATER TAKES

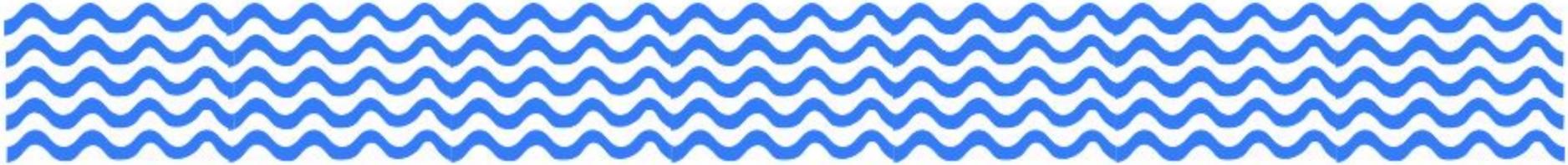
5 DAYS





OMNIVIS DETECTS IN

30 MINUTES



OmniVis detects pathogens with an easy-to-use system with (1) a handheld hardware platform, (2) single-use disposable test kit stable for 2 years at room temperature, and (3) data management portal that work seamlessly together to detect diseases rapidly and affordably.



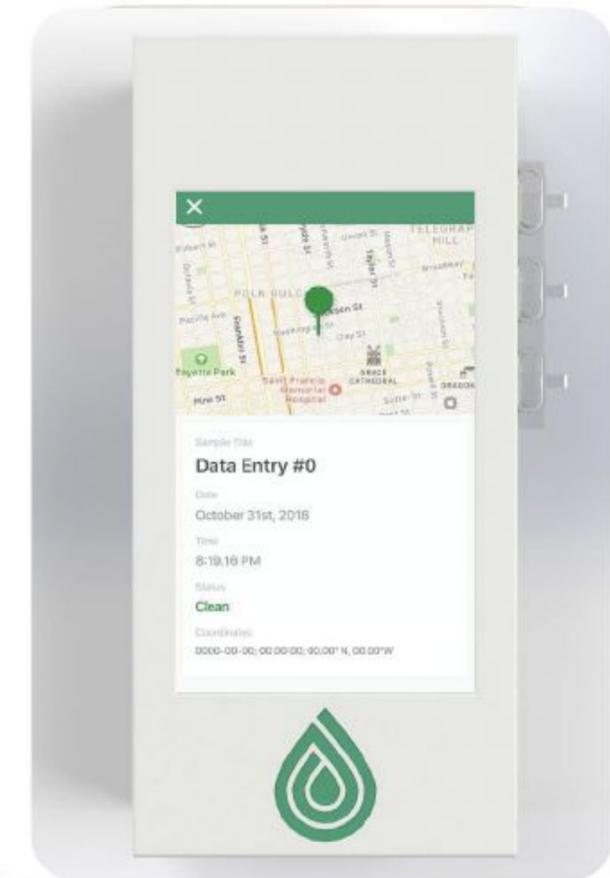
## HARDWARE



## TEST KIT



## DATA



A TEST ANYONE CAN USE ANYWHERE IN THE WORLD.



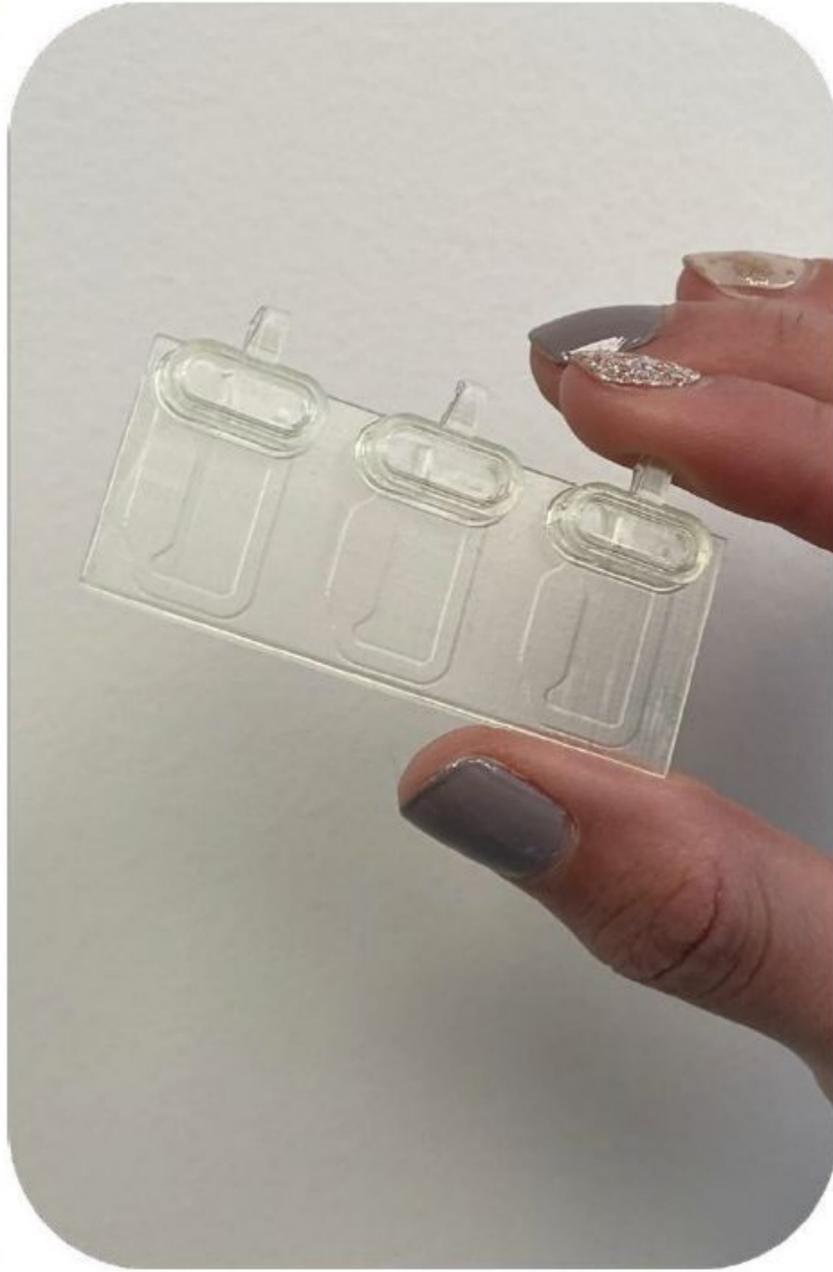
# HARDWARE

Acts as portable lab

Microscopy and heating on-platform

Single-time purchase - used for every test

30 minute test



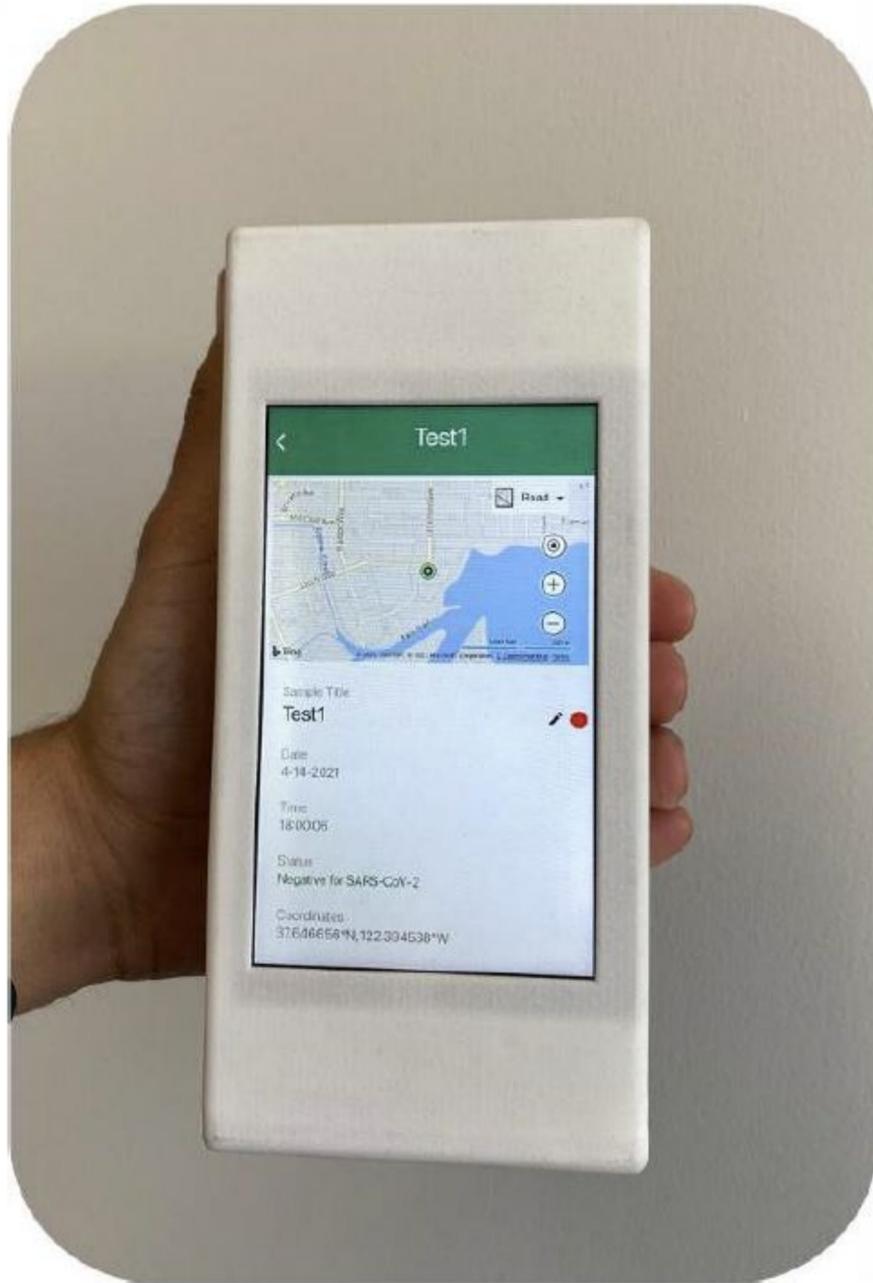
# TEST KIT

Holds liquid sample for testing

Temperature stable reagents

What we image and analyze

Single-use: disposable



# DATA

OmniVis application

Proprietary detection algorithms

Easy-to-use instructions and progression screens

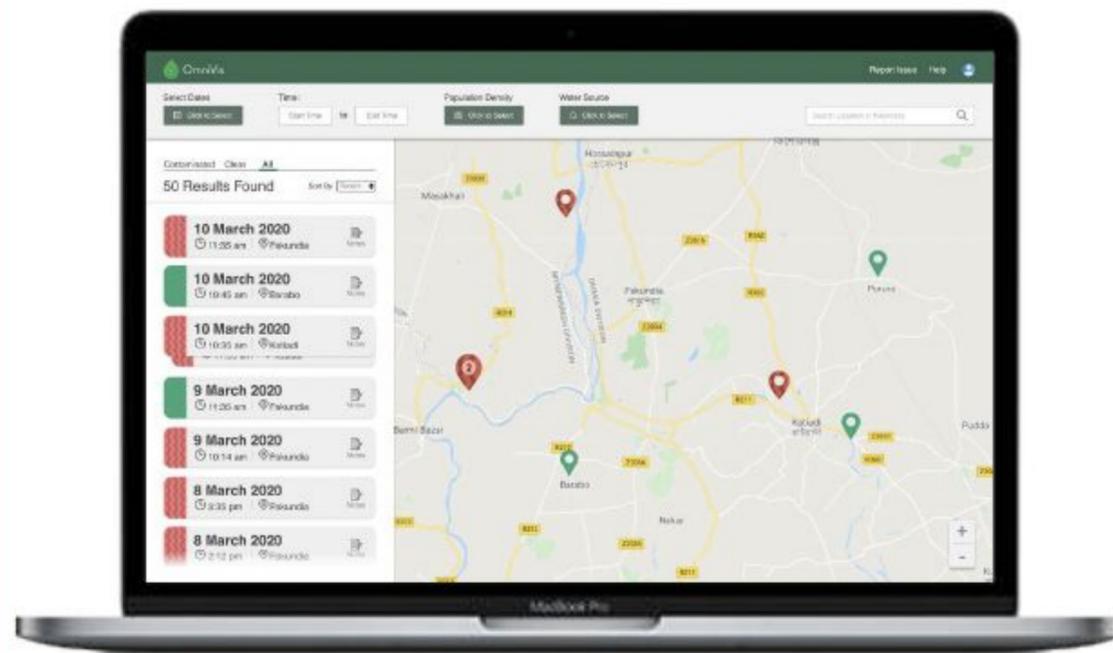
Provides result, GPS, time-stamp

Automatically offloads data to a specific cloud-based portal

Yes or No - Result



# CLOUD PORTAL



Links to OmniVis application

Unique log-in for organizations and field users

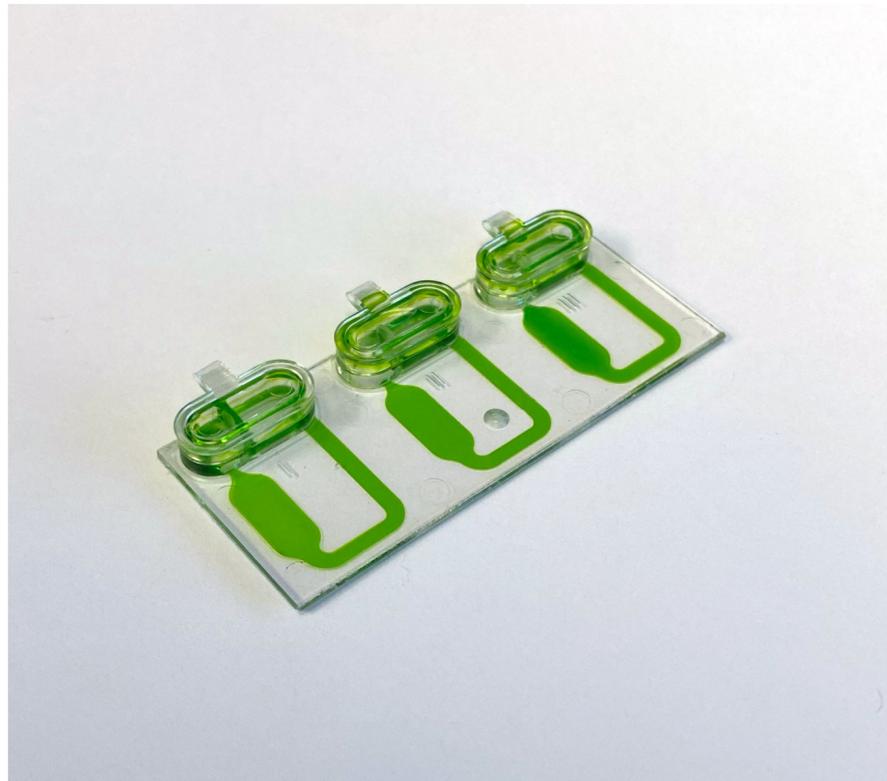
Aggregation and monitoring of outbreak data

Knowledge of where to pinpoint resources

Cost included in diagnostic purchases from businesses



# IMPACT



2.9 million cases each year.  
95 000 deaths each year.

Each cholera patient needs 6.4 litres of ringer lactate  
=> Huge impact on logistics.

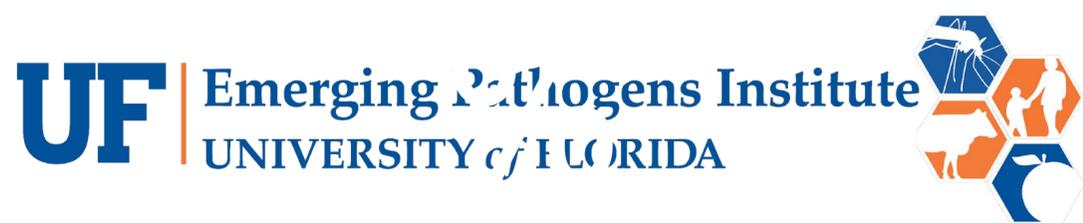
Cholera should be **PREVENTED**, before it gets cured.

Prevent the spread in endemic regions.  
Detect contamination during emergencies.



# A worldwide effort to eliminate Cholera

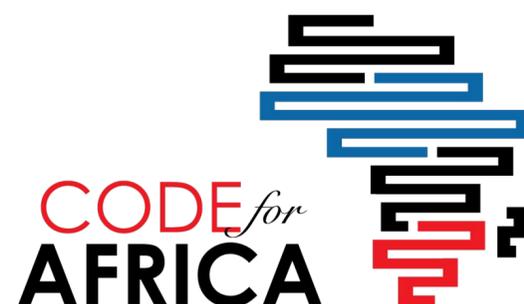
## LOIs, Pilot Studies & Customers



Cholera lab and water testing in Haiti



Largest cholera hospital



Africa sensors initiative



UNICEF DRC





# Projects

- User study with icddr,b 2019
- Scientific Device study with icddr,b 2022.
- Scientific Device study with CfA, 2022.
- Pilot study with UNICEF in DRC, 2022.
- GTFCC, bought devices in 2022.



# Scientific Papers

1. Usability of Rapid Cholera Detection Device (OmniVis) for Water Quality Workers in Bangladesh: Iterative Convergent Mixed Methods Study.
2. A smartphone-based particle diffusometry platform for sub-attomolar detection of *Vibrio cholerae* in environmental water.
3. Particle Diffusometry: An Optical detection method for *Virbrio cholerae* presence in environmental water samples.

# THE OMNIVIS INNOVATION



**PORTABLE** • Handheld - test anywhere, any time

**UNIQUE MEASUREMENTS** • Viscosity-based

**RAPID** • Result within 30 minutes of data collection

**COST-EFFECTIVE** • \$1000 device \$10 test kit

**AUTOMATED** • Removes user result interpretation

**DISEASE AGNOSTIC** • Scalable and plug-and-play

**LOCATION SPECIFIC** • GPS and time-tracking



# Working with OmniVis?

1. Interested to pilot the solution? Email us.
2. Can you help OmniVis out with a Letter of Intent? Email us.
3. Do you want to buy the solution? Ask for a quote.
4. Do you want to test the product for 30 days? Ask for a quote.
5. Interested in our peer-reviewed scientific papers? Email us.

Contact:

[lotte@omnivistech.com](mailto:lotte@omnivistech.com)

[info@omnivistech.com](mailto:info@omnivistech.com)

Tel: +1 (415) 938-4300



# Omnivis

Appendix



# Advantages

1. Easy scalable and quick turn around times.
2. No cold chain logistics needed.
3. Shelf life Test Kits - 2 years in room temperature.
4. No training required for usage.
5. Confirmed specificity, accuracy, sensitivity by icddr,b.
6. Predictive modeling - Predicting when and where outbreaks will occur.



Our detection device combines **two technologies** to detect pathogens.

## LAMP

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- (RT-) LAMP for pathogen
- 6 primers to provide assay specificity
- Isothermal for low power draw for portable device
- Targeting unique gene
- <30 minute assay

## PARTICLE DIFFUSOMETRY

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- Detects viscosity change from hybridized DNA
- Measures particle Brownian motion with image processing
- Highly sensitive detection method and novel approach
- 30 second recording
- 8 second processing time

**Questions?**

Contact [info@omnivistech.com](mailto:info@omnivistech.com)

**OmniVis**

[www.omnivistech.com](http://www.omnivistech.com)