

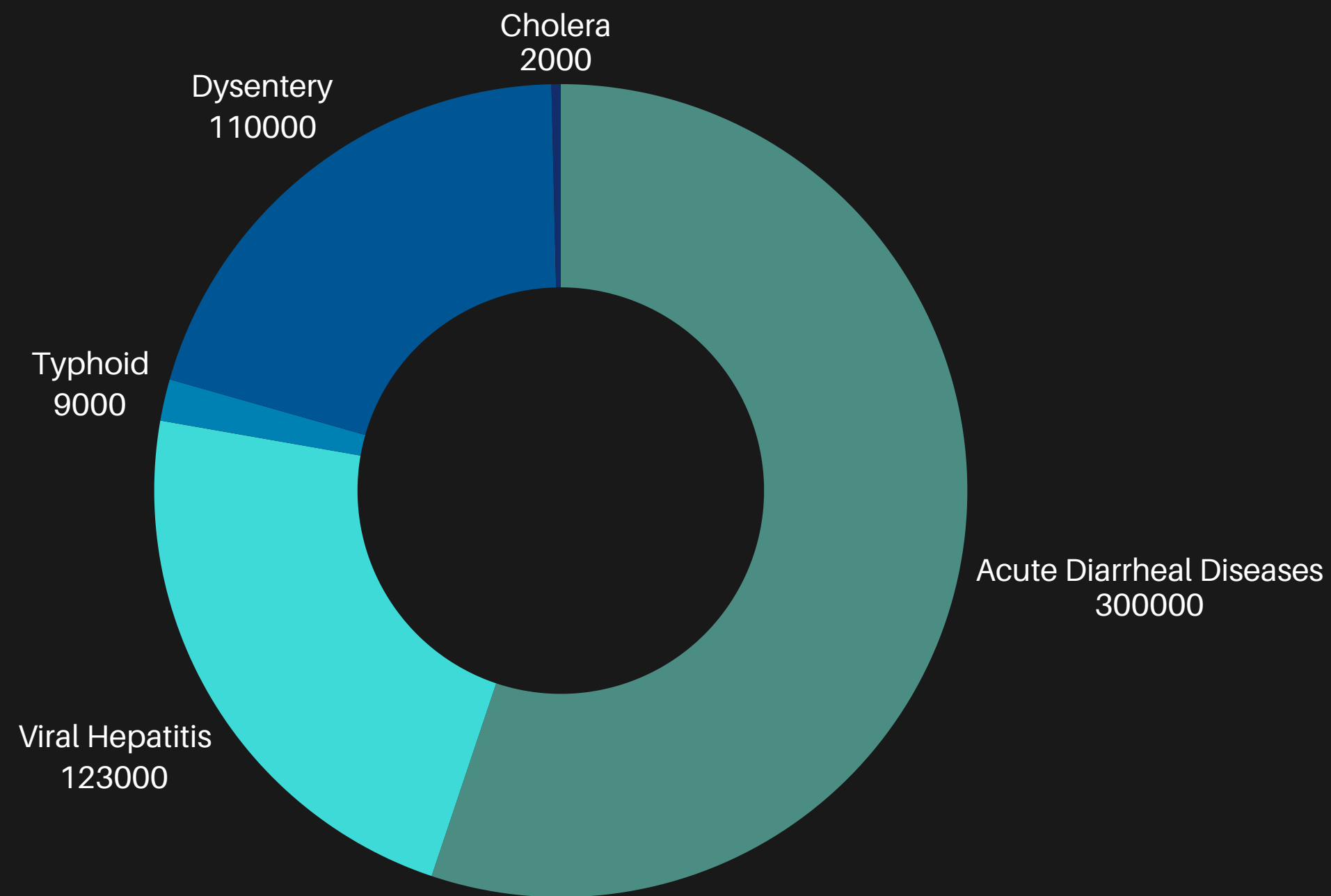
SWAAS

Fighting water-borne diseases, so every breath is a healthy one.



**WE HAVE A Public Health
Emergency That Cannot Be
Ignored.**

The Devastating Impact: Lives Lost and Communities at Risk



**1.5 million people die from water-borne
infections worldwide each year**

Understanding Water-Borne Diseases



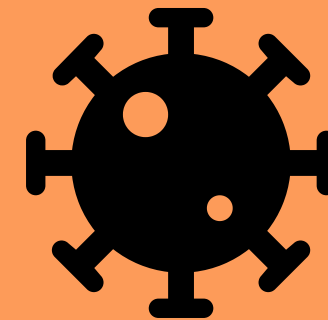
Cholera

Cholera is an acute intestinal infection caused by ingesting contaminated water or food.



Diarrheal Diseases

A group of illnesses caused by various pathogens, they are transmitted through contaminated water and food and result in frequent, watery stools.



Viral Hepatitis

Hepatitis A and E are viral infections that cause liver inflammation and are spread through the consumption of water and food contaminated with the feces of an infected person.



Typhoid

An acute intestinal infection caused by the bacterium *Salmonella Typhi*, it is transmitted through contaminated food or water.

Project Outline

Problem Identification

- Primary cause: The main problem is the widespread consumption of unsafe, contaminated drinking water in the region.
- Contributing factors: This issue is made worse by poor sanitation and limited access to healthcare, which make it difficult to prevent and treat outbreaks.

Solution Overview

- Uses AI and community-reported data to predict potential water-borne disease outbreaks before they happen.
- Sends instant alerts to villagers and health authorities, enabling proactive measures and reducing disease spread.

solution



- **Offline-first mobile & IVR/SMS system for villages to report symptoms and water quality without requiring constant internet.**
- **QR-tagged water sources + AI-powered test strip scanning for quick, low-cost detection of contamination.**
- **Real-time outbreak mapping & early warnings for health workers and organizations to respond faster.**
- **Community-driven participation ensures scalability, inclusivity, and stronger local adoption.**
- **Low-cost, high-impact model that prevents late detection, reduces disease spread, and supports sustainable rural health monitoring.**

Key Concepts



Early Detection

AI predicts water-borne disease outbreaks quickly



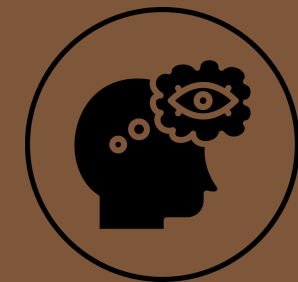
Community Reporting

Villagers and health workers report symptoms easily



Real-Time Alerts

Instant push notifications and SMS warnings sent

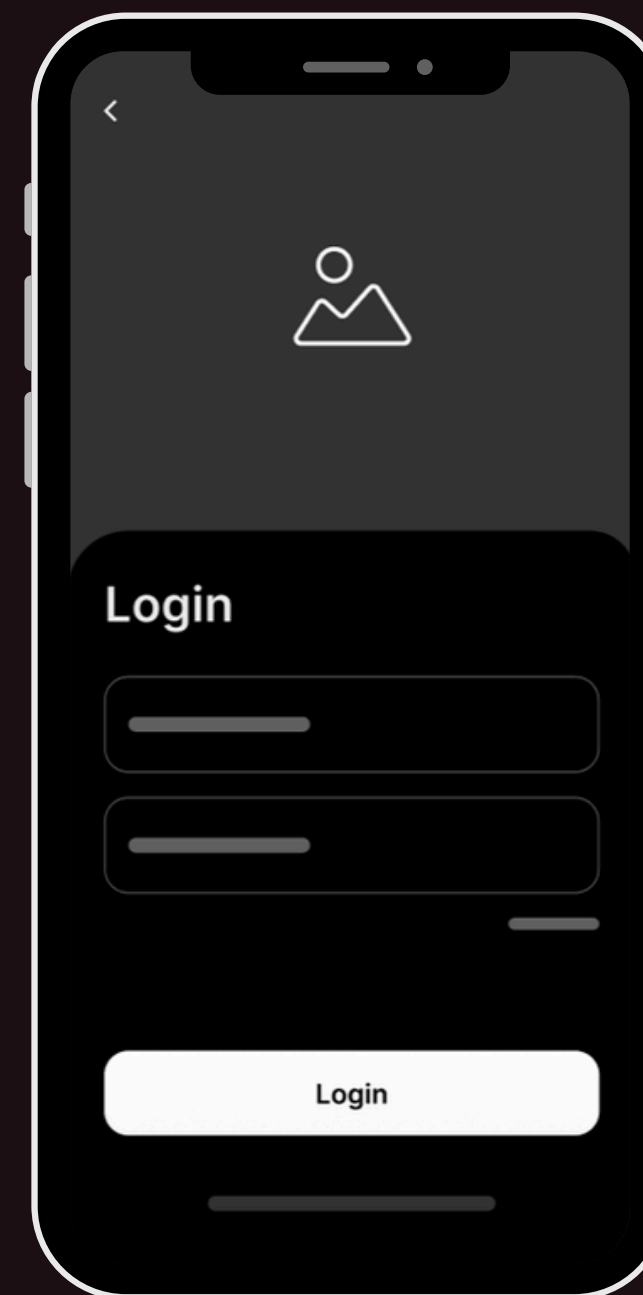


Data Visualization

Interactive dashboard showing maps and trends

Login Page Features

- **Secure Access:** Phone/email-based authentication.
- **User Roles:** Villagers, health workers, and organizations.
- **Role-Based Dashboard:** Customized view for each user type.
- **Simplicity First:** Easy, minimal UI for rural adoption.



ONBOARDING

- **Pick Your Location**

Choose your village or area to personalize monitoring.

- **View Nearby Waterbodies**

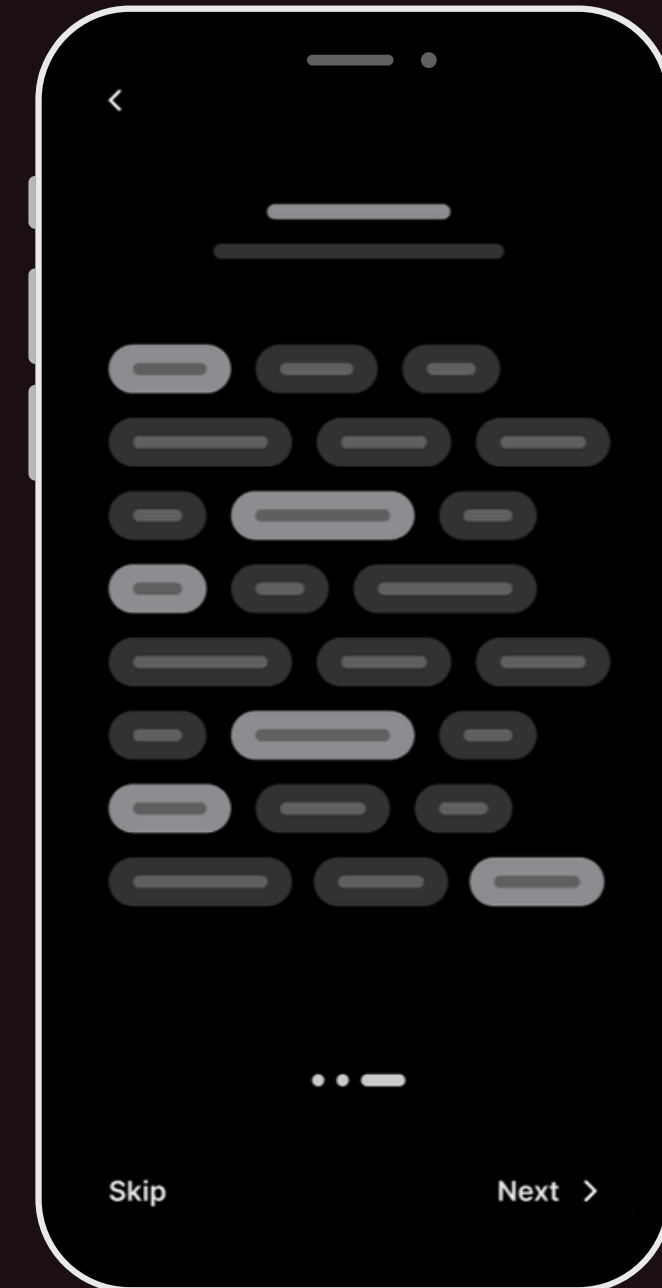
Instantly see lakes, ponds, and rivers around you.

- **Track Health & Water Quality**

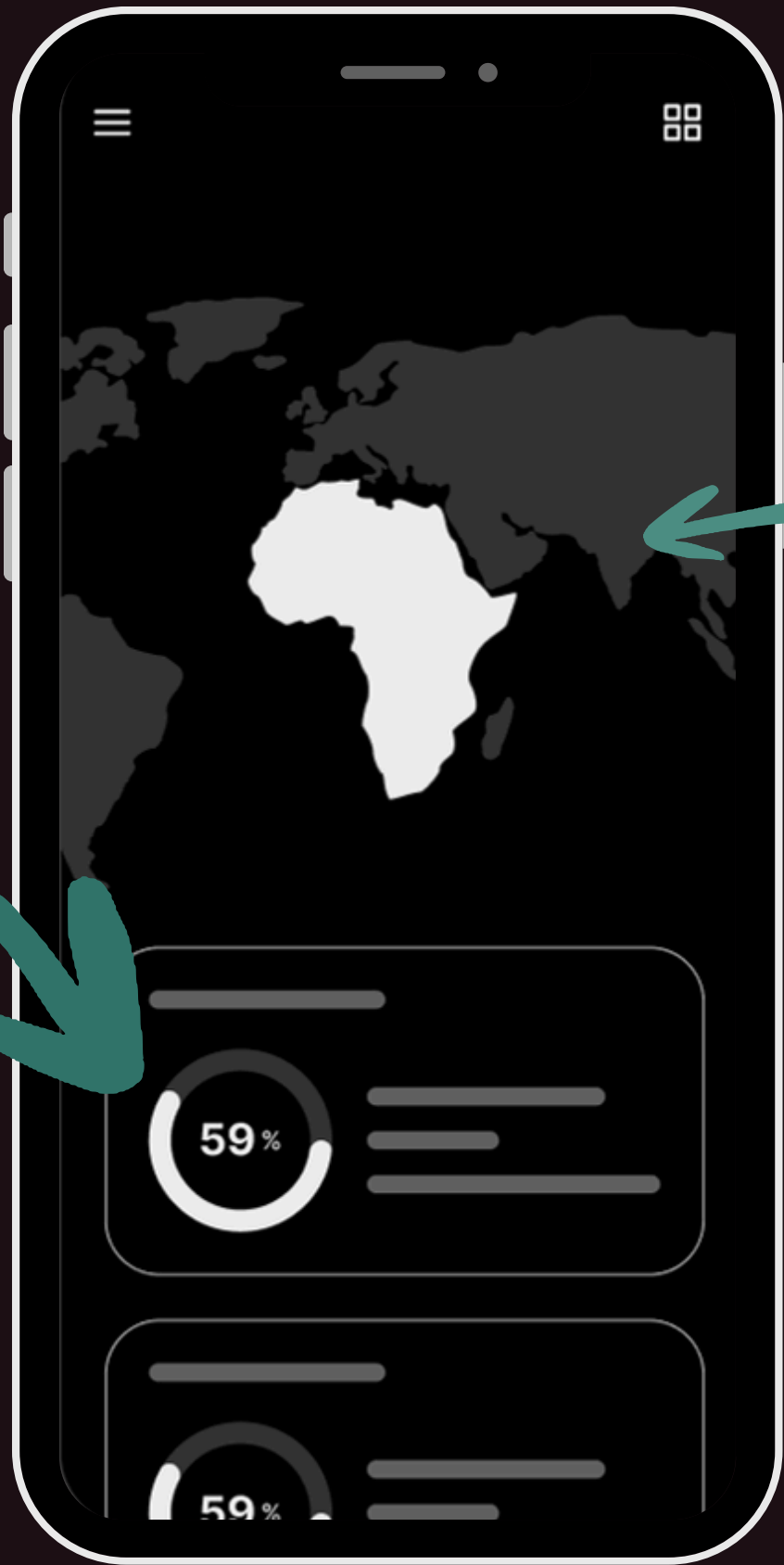
Stay updated on potential risks in your surroundings.

- **Get Early alerts**

Receive warnings to prevent water-borne diseases.



Dashboard

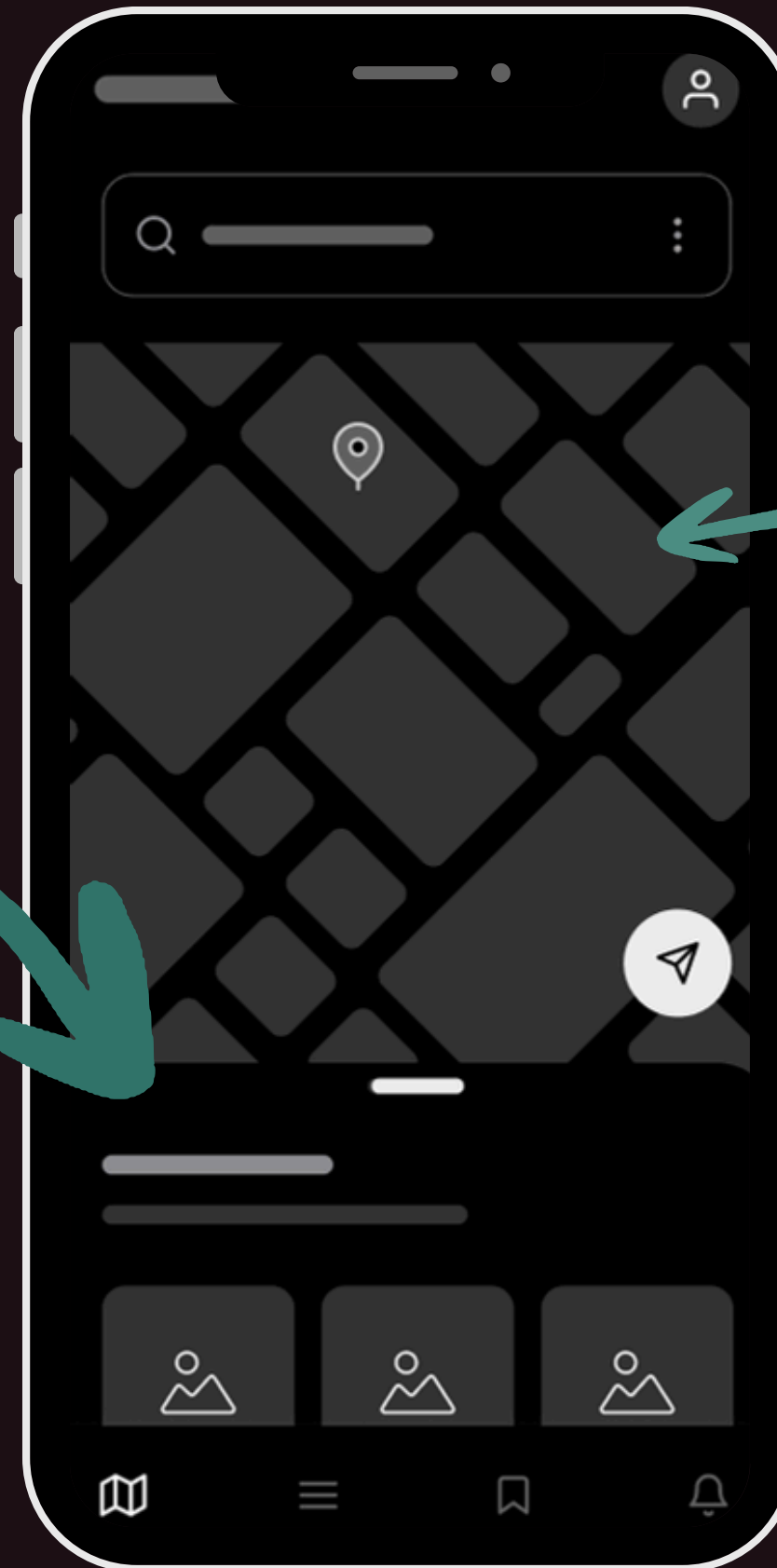


Your Chosen location

Safety Percentage



Dashboard

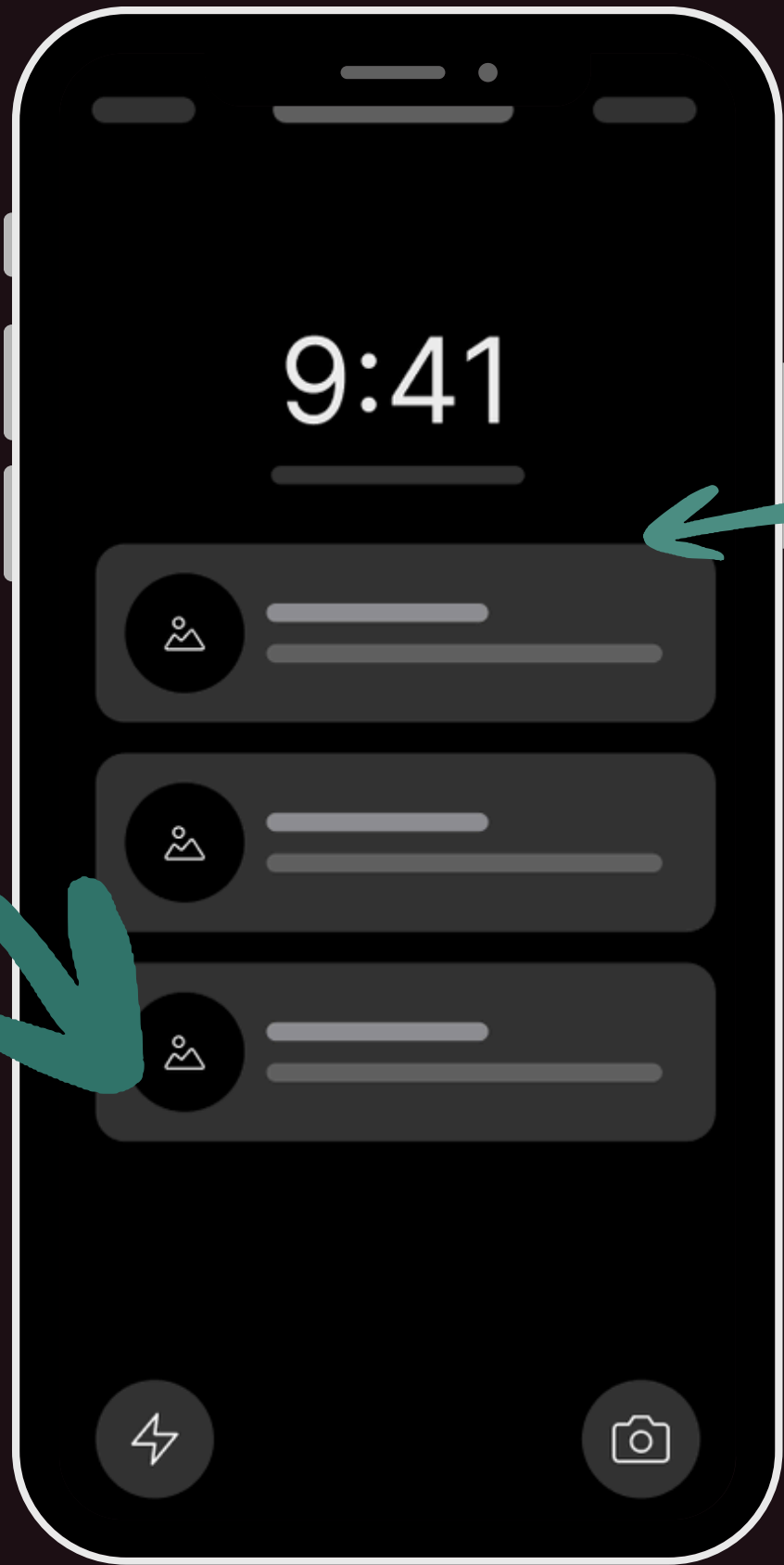
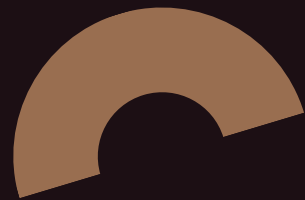


You can even check it on maps if you are travelling

Pictures and safety concerns



Dashboard



**Notification about
waterbodies near you**

**A colour representing how
safe the water body is**



Possible problems



1.

Inaccurate
mapping of
nearby water
bodies



2.

Difficulty in real-
time data
collection



3.

Connectivity
issues in remote
rural areas



4.

Low digital
literacy among
local users



5.

Delayed updates
from health
organizations



3 out of 5

Rural households Lacks
clean water access



60%

Diarrheal and such viral
diseases comes from
contaminated sources



500,000

is the number of deaths in
India due to poor water
hygiene

Meet Our Talented Team

Committed to improving community
health together.



Next Steps

To move forward, we seek support in key areas:

- Secure funding for project development
- Establish mentorship from industry experts
- Forge partnerships with local organizations



Reach out to support our mission today!

Email

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Social Media

@SWAAS_goal

Phone

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