MUCHIK · Water

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Country: Peru · Trujillo **Category:** Water **Impact Areas:** Adaptation **Stage:** Prototype **Team Size:** 3 **Website:** — **Founder:** Clara Rodríguez

Elevator Pitch

MUCHIK develops solutions to monitor the spread of antimicrobial resistance genes in aquatic ecosystems affected by climate change and pollution. We provide early-warning insights for governments, utilities, and environmental stakeholders.

Climate Problem

Climate change and pollution accelerate the spread of antimicrobial resistance genes in aquatic ecosystems, threatening water safety, public health, and environmental resilience in vulnerable regions as South America.

Solution

MUCHIK uses metagenomics and bioinformatics to monitor antimicrobial resistance genes in water and sediments, generating early-warning environmental intelligence for decision-makers.

Revenue Model

Trough environmental surveillance services, genomic analysis, risk reports, and subscription-based monitoring solutions for governments, utilities, and industry stakeholders.

Target Market

Governments, water utilities, environmental agencies, hospitals, aquaculture, and industries requiring environmental AMR monitoring and climate-resilient surveillance.

Social Impact

Indigenous Peoples, People Living in Extreme Poverty, Women

Demand Evidence

Growing global concern over antimicrobial resistance, wastewater surveillance, climate-related water risks, and environmental monitoring gaps demonstrates increasing demand for early-warning AMR solutions.

Competitors

International companies like Resistomap operate in this field, but few provide climate-focused environmental AMR surveillance tailored to Latin American ecosystems.

Founder Expertise

Expertise in Pharmacy (my major), environmental metagenomics and bioinformatics applied research in aquatic ecosystems. MUCHIK is part of my bachellor's thesis.

External Support

Our project received applied research funding through Peru’s ProCiencia program, supporting the development of the MUCHIK environmental metagenomic surveillance platform.

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Founder

Clara Rodríguez

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