H **Resilience through Intelligence**

AI-Powered Disaster Intelligence & Response Platform

HAZARD IQ+ APP

AIR

LAND

WATER

PROBLEM STATEMENT

Real Problems on the Ground

Communities in high-risk and underserved regions lack intelligent, real-time tools to respond to environmental hazards such as floods, fires, and severe air pollution. Current systems offer fragmented data, delayed alerts, and little actionable intelligence for both citizens and responders. There is a growing need for an AI-powered platform that consolidates hazard data, forecasts risks, and facilitates safer navigation and faster emergency response. Without this, disaster response remains reactive, health outcomes worsen, and vulnerable populations are left without critical life-saving information.

- Climate-triggered disasters (floods, fires, heatwaves)

- Rising air pollution levels

- Poor access to real-time hazard data and alerts

- Inadequate tools for responders to coordinate help

VISION

Our Vision for HazardIQ+

"Resilience through AI: Safer Routes, Cleaner Air, Faster Rescue"

A unified tool for communities, responders, and authorities to act faster and smarter.

OBJECTIVES

What HazardIQ+ Aims to Achieve

Deliver real-time, hyperlocal AQI & hazard forecasts

Provide safe navigation routes away from danger zones

Offer SOS tools with medical context and responder coordination

Assist responders with live hazard maps and automated dispatch

FEATURES: ENVIRONMENTAL & HEALTH AI

Smarter Environmental Intelligence

Hyperlocal AQI map using satellites and ground sensors

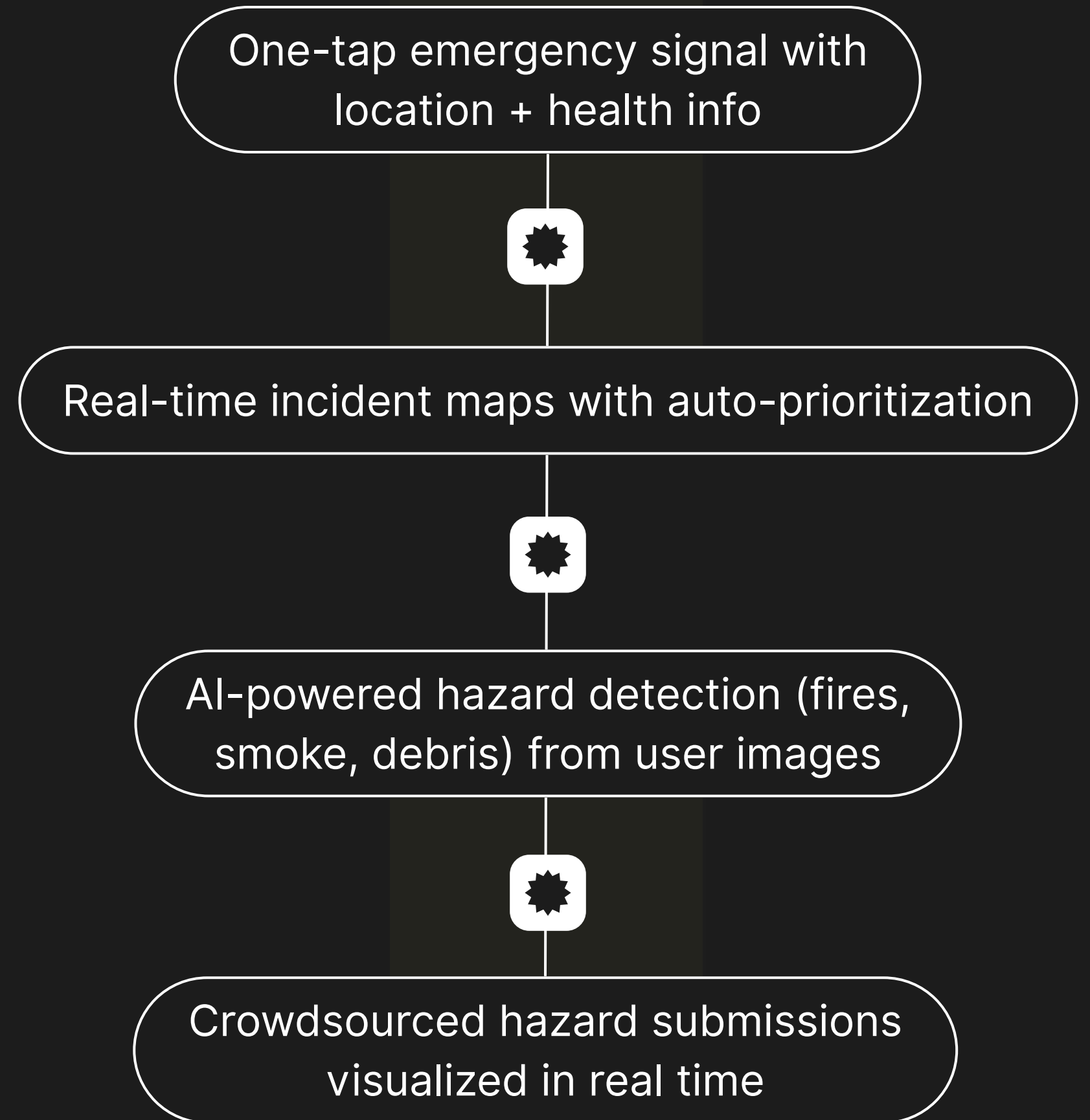Forecast pollution levels 24–72 hours ahead

Personalized alerts based on exposure history

Safe route suggestions using ISRO & IMD data

FEATURES: SOS & RESPONSE

Smarter Disaster Response

One-tap emergency signal with location + health info

Real-time incident maps with auto-prioritization

AI-powered hazard detection (fires, smoke, debris) from user images

Crowdsourced hazard submissions visualized in real time

TARGET AUDIENCE

Who Uses HazardIQ+?

Citizens:
Track AQI, get alerts, submit incidents, find safe routes

Local Governments & Disaster Response Units:
Coordinate response via dashboard

NGOs & Climate Resilience Groups:
Get data-rich insights to plan relief

DEVELOPMENT PLAN

From Idea to Launch

Phase 1

MVP (AQI TRACKER, SOS BUTTON, LOCATION ACCESS)

Phase 2

ML AQI FORECASTING, ROUTE RECOMMENDER

Phase 3

INTEGRATION OF SATELLITE FEEDS, HEATMAP UI

Phase 4

IMAGE-BASED HAZARD DETECTION, RESCUE DASHBOARD

Phase 5

TESTING, DEPLOYMENT, LAUNCH

MARKET OPPORTUNITY

Why Now Is the Right Time

- Climate disasters are rising in frequency and severity
- Pollution-related health issues are spiking in Tier-II/III cities
- AI/ML tools and satellite APIs are ready for production

- Government push for smart disaster management systems
- Lack of real-time platforms combining AQI, Disaster & SOS

ETHICS & DATA SAFETY

OUR COMMITMENT TO ETHICAL TECH

- All AI suggestions are advisory, not prescriptive
- SOS & location data are end-to-end encrypted
- No personal data exposed to public endpoints
- Transparent, auditable ML logs
- Human oversight required in all responder actions

Let's Build a Resilient India with HazardIQ+

We're ready with design, logic, and vision

Seeking datasets, satellite feeds, and pilot partners

Empowering communities with faster, smarter response

Let's bridge technology with climate resilience

THANK YOU!