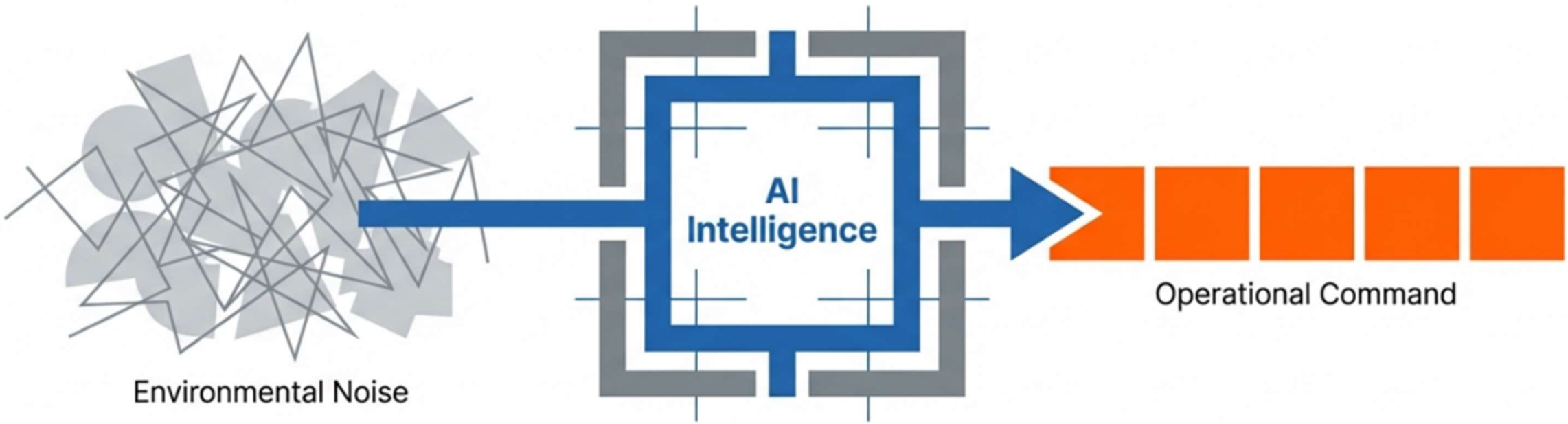

ClimMaTech
Predicting the unpredictable
Climate Risk Is Infrastructure's Next Crisis
• Climate volatility is destroying legacy infrastructure
• Current monitoring tools are entirely reactive
• The missing link: real-time decision intelligence
We are building the operating system for climate risk decisions.
iit
STARTUPS
Cohort 14

The OS for Climate Risk Decisions

ClimMaTech: The Climate Risk Decision Intelligence Platform



- AI-powered intelligence platform
- Converts environmental signals into precise actions
- Shifts infrastructure from reactive to proactive

We don’t just monitor the environment; we dictate the operational response.

Data Exists. Decision Intelligence Doesn't.

IoT sensors generate noise, not answers



Operators face a dangerous Decision Gap

The Decision Gap

Weather forecasts lack infrastructure context



Sensors give you data. We give you decisions.

The Missing Layer: Decision Intelligence

Ingests all fragmented environmental signals

Predict flood and extreme rainfall before they hit.

Outputs actionable commands for operators



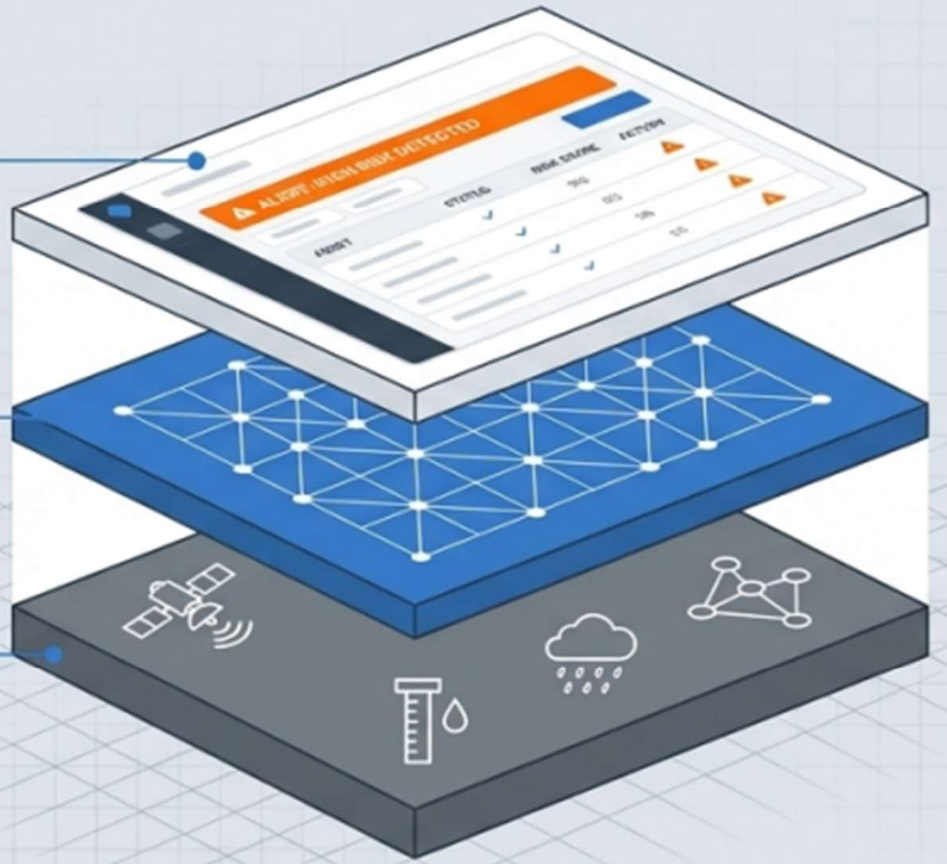
We are the missing intelligence layer between a changing climate and a physical asset.

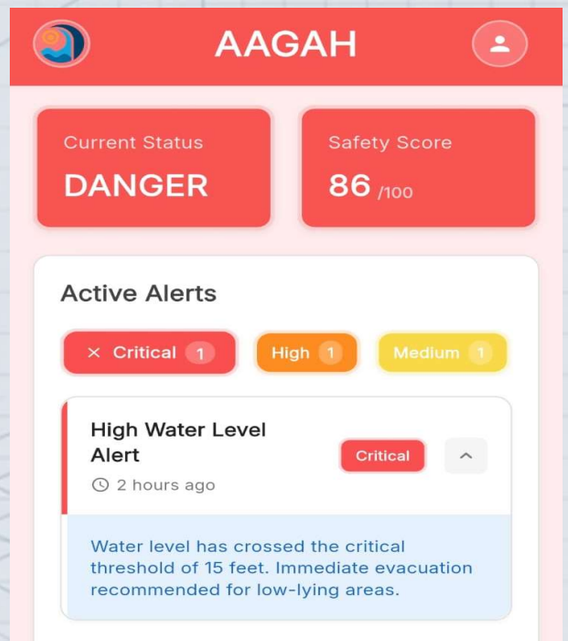
A Full-Stack Intelligence Platform

Decision UI: Delivers alerts and workflows

AI Engine: Models terrain, hydrology, and risk

Data Layer: Integrates satellite, weather, and sensors

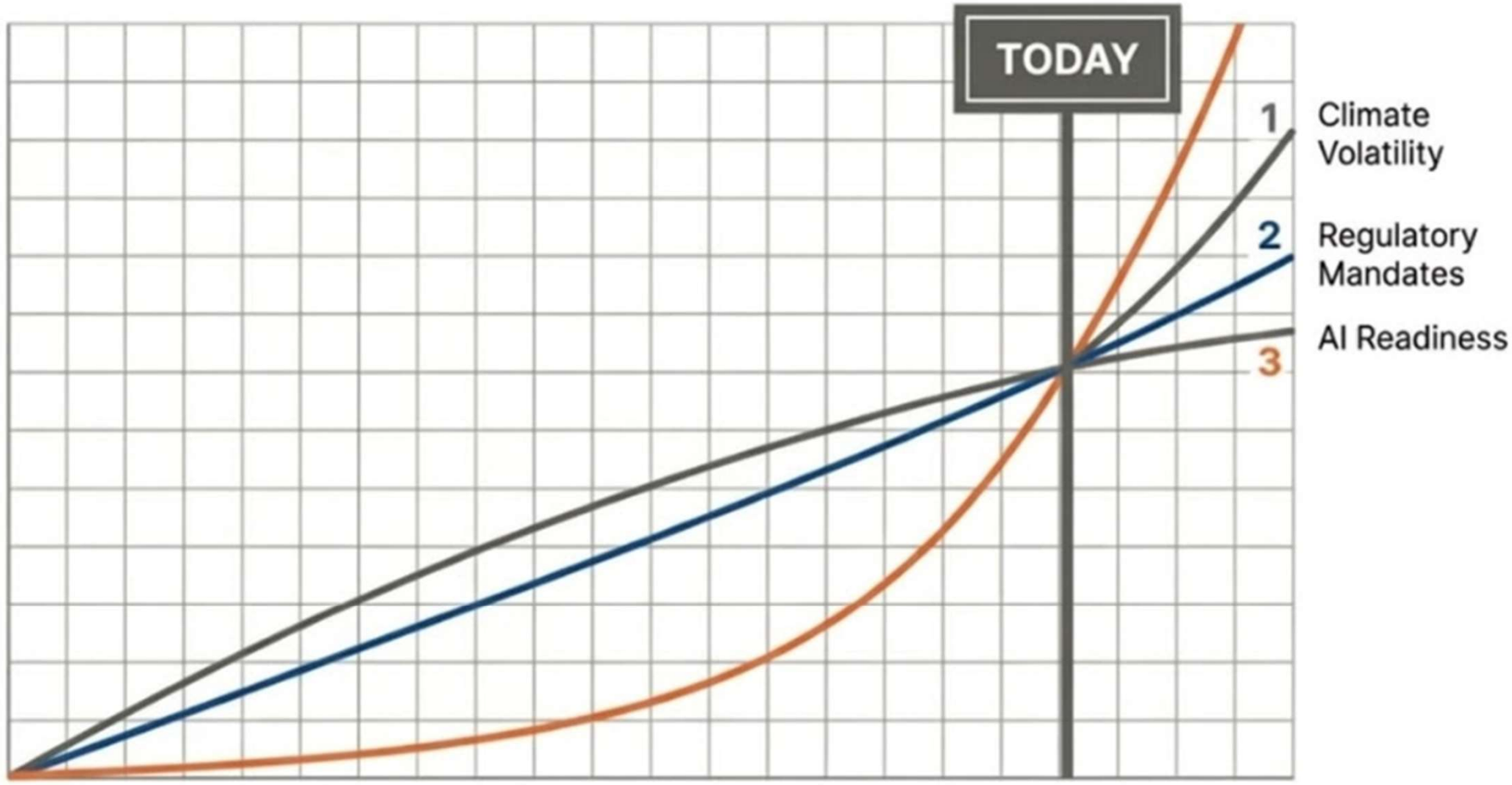




Fragmented signals go in; structured operational intelligence comes out.

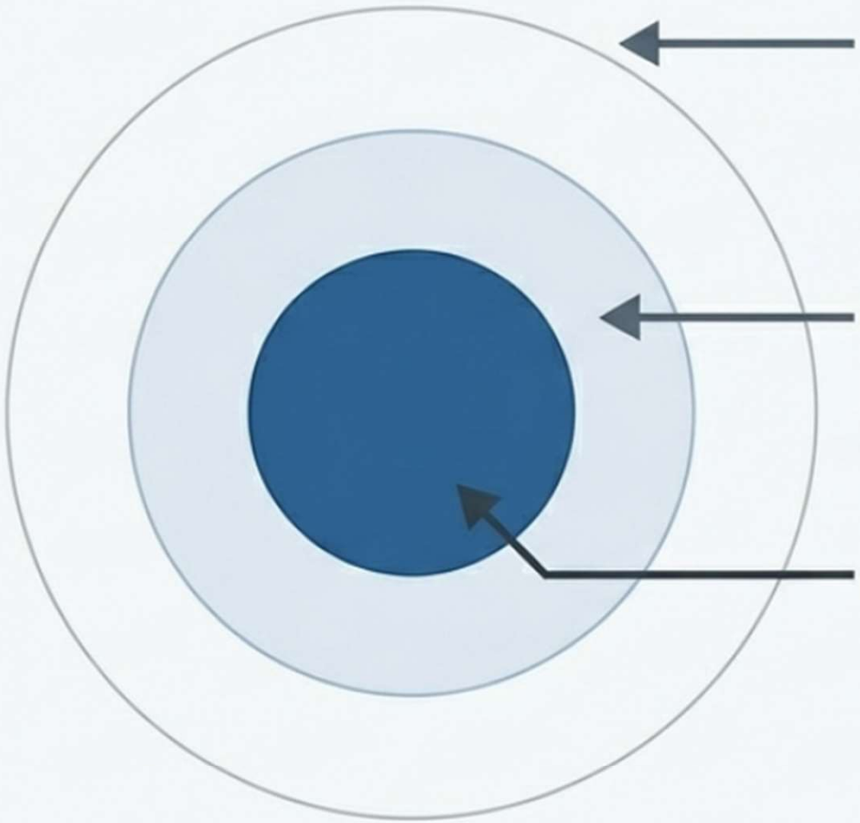
The Climate Intelligence Inflection Point

- Infrastructure exposure is compounding daily
- Governments and insurers mandate resilience
- AI and edge-compute make real-time possible



Infrastructure was built for the past; it needs an operating system for the future.

A $40B+ Intelligence Market



$40B+ TAM:
Global climate risk & environmental intelligence

$10B+ SAM:
Infrastructure environmental monitoring

1B+ SOM:
Enterprise-grade intelligence

VALIDATED ENTERPRISE APPETITE

₹10–25 Lakh

Initial Enterprise ACV

We have a clear path to capture the regional opportunity of $80–$120 million in our initial years as climate risk intelligence adoption accelerates

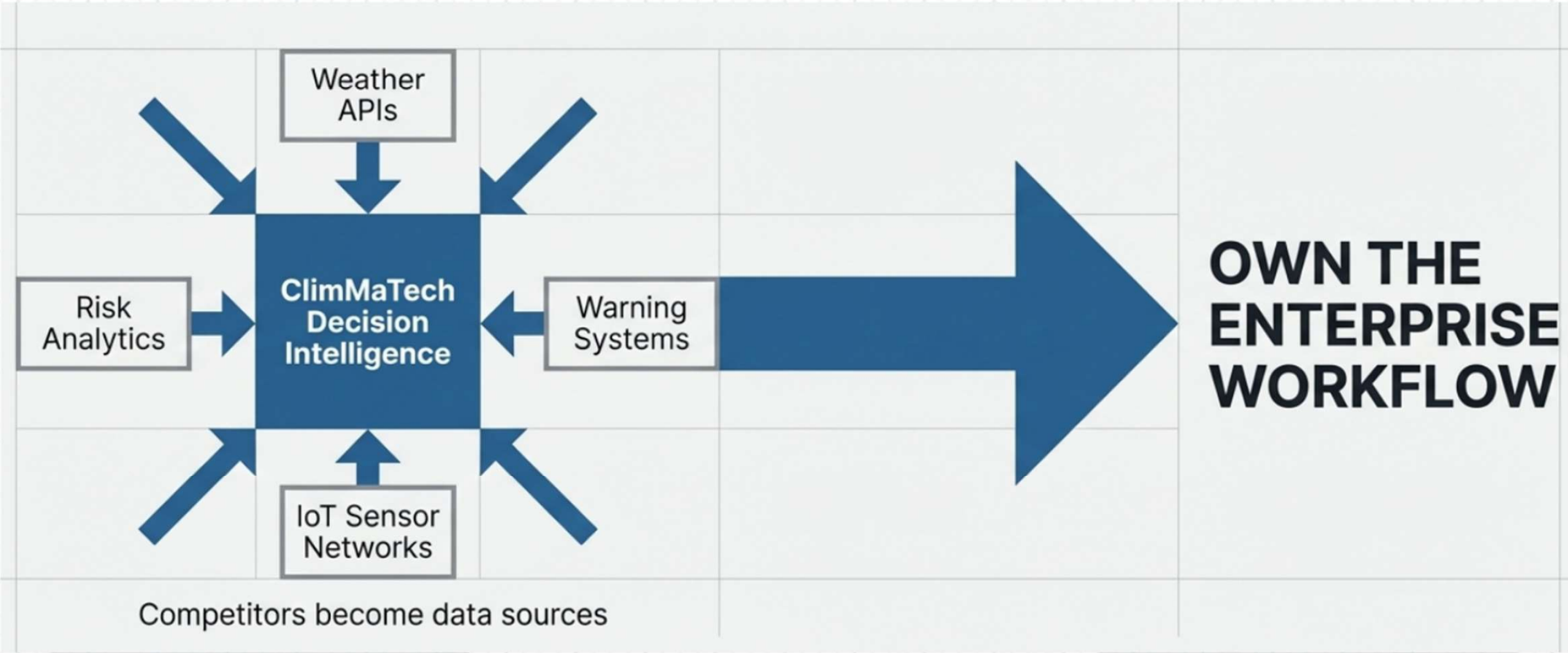
This is not a hardware market; it is a venture-scale intelligence market.

We Orchestrate the Entire Ecosystem

IoT and weather companies are not competitors

They are data inputs for our platform

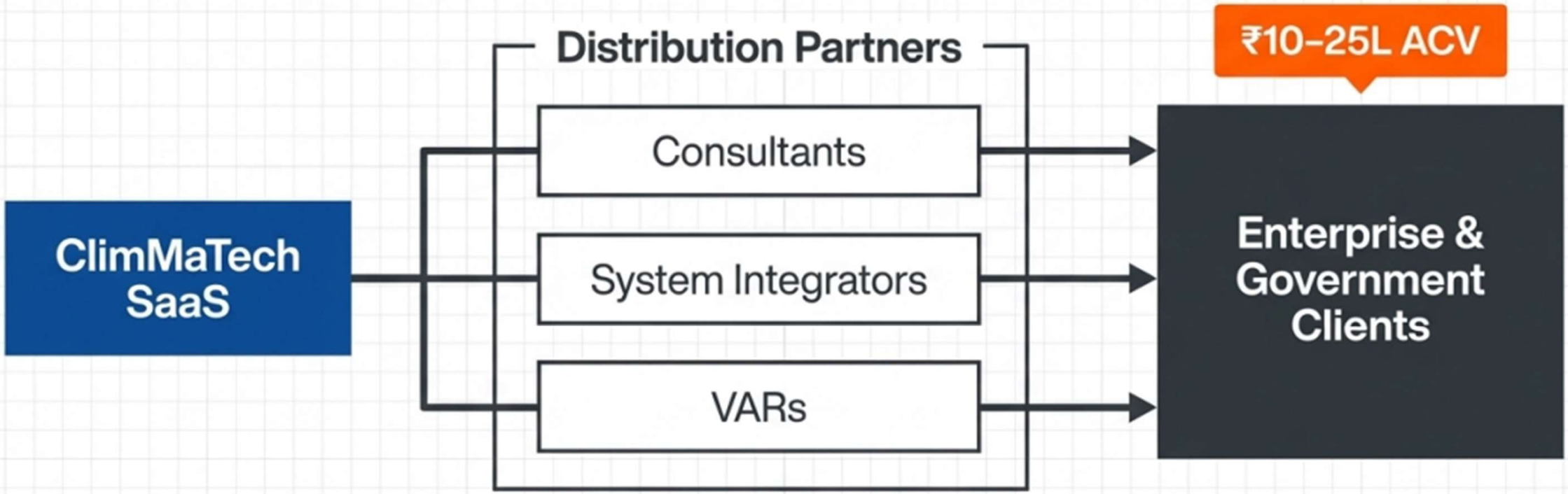
ClimMaTech owns the intelligence moat



We don’t compete on hardware; we win on ecosystem orchestration.

Partner-Led Enterprise SaaS

- Recurring SaaS revenue platform | • ₹10–25L Annual Contract Value (ACV) | • GTM powered by Consultants, SIs, and VARs



Enterprise SaaS economics scaled through global infrastructure partners.



IIT Engineered. Himalayan Proven.



Dharkan Anand
Alumni'25 - B.Tech in CE with specialization in Entrepreneurship
IIT Mandi - India



Dr. Vivek Gupta
Co-Founder & CIO
Assistant Prof.
SCEnE - IIT Mandi
India



Om Maheshwari
Co-founder & CTO
BTech in VLSI
IIT Mandi - India



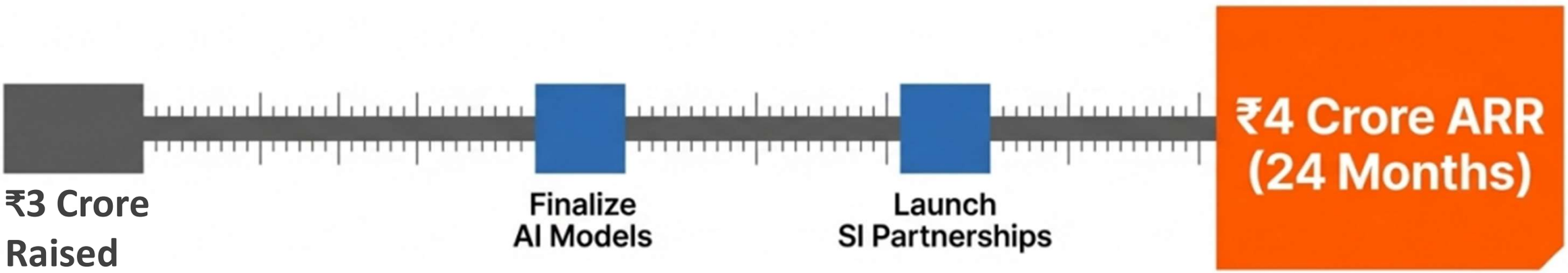
Siddik Barbhuiya
PhD in Hydrology
IIT Mandi - India

1 Patent | 4 Trademarks

Built by IIT engineers. Proven in the harshest environments on earth.

₹3 Crore to Dominate the Category

- 24-month runway to scale AI and GTM
- Lock in major System Integrator partnerships
- Targeting ₹4 Crore ARR



This capital transitions us from a proven product to a dominant category leader.

Thank You.

ClimMaTech

Predicting the unpredictable

Every infrastructure system will soon require climate intelligence. ClimMaTech is building that layer.

www.climmatech.com | admin@climmatech.life | https://meet.google.com/stn-oxcn-gpp | +91 **7488011618**

ClimMaTech

Supporting Deck

(For Q&A Discussion)

ClimMaTech Private Limited

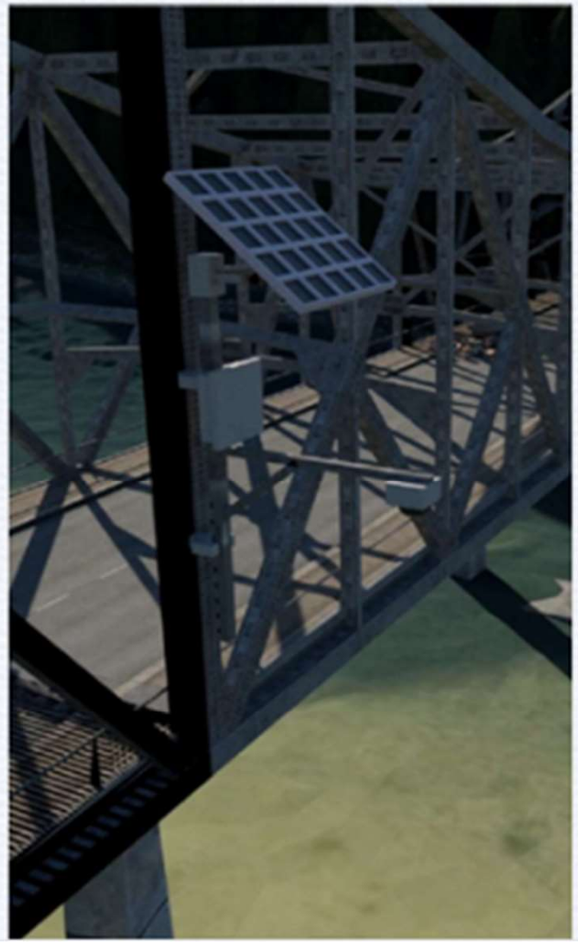
Predicting the unpredictable

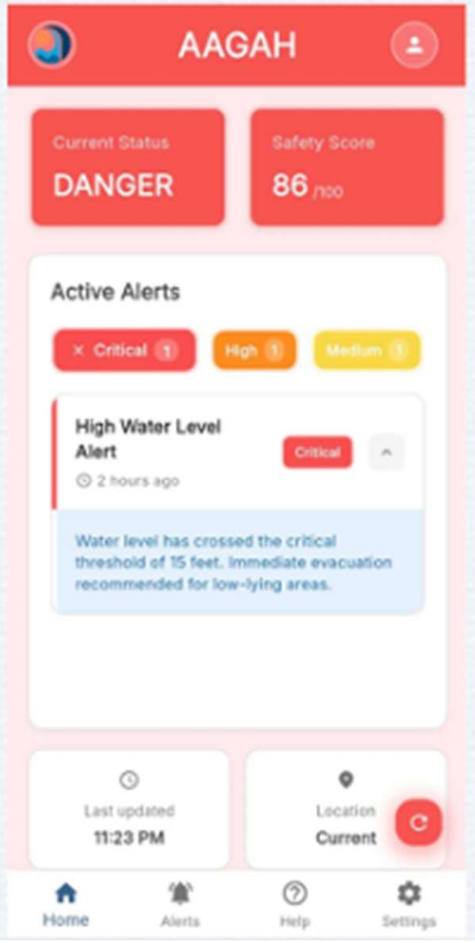














Indias Climate Vulnerability

- **75% of districts are climate-vulnerable**
- **Urban flooding losses: $4B+ annually, rising to $30B+ by 2033.**
- **$3.5B+ addressable market in hydrological monitoring, digital twin systems, and climate analytics.**

- **Annual flood-related economic damage in India: INR 40,000 Cr+**

Target Users

Government Agencies

Insurance & Risk Analytics Firms

Smart Cities & Urban Planners

Agricultural Irrigation Departments

Infrastructure & Hydropower Operators

TAM: ~$30 B (global climate intelligence, IoT, and hydrology market) | **SAM: ~$3.5 B** (India's addressable government, infra, and agri-tech climate projects) | **SOM: ~$200 M** (initial pilot and early adoption potential in 3 years)

Technology, Policy, and Climate Drivers Align



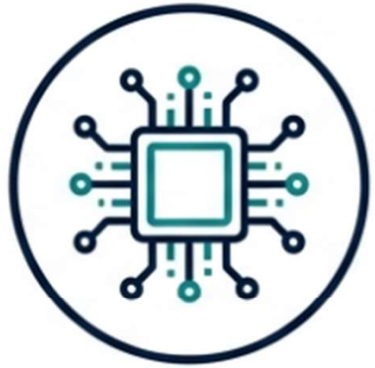
Policy Mandates

Disaster Management Act (2025) mandates urban/local EWS.



Public Funding

₹4,576.7 Cr allocated in FY25-26 for flood resilience. Adaptation spend: 5.6% of GDP.



Tech Readiness

“Mission Mausam’ AI integration. Ubiquitous 4G + Low-cost sensors.

Key Insight Box: The climate finance gap is $170B, but government spending is now actively mobilized to close it.

Competitor Matrix

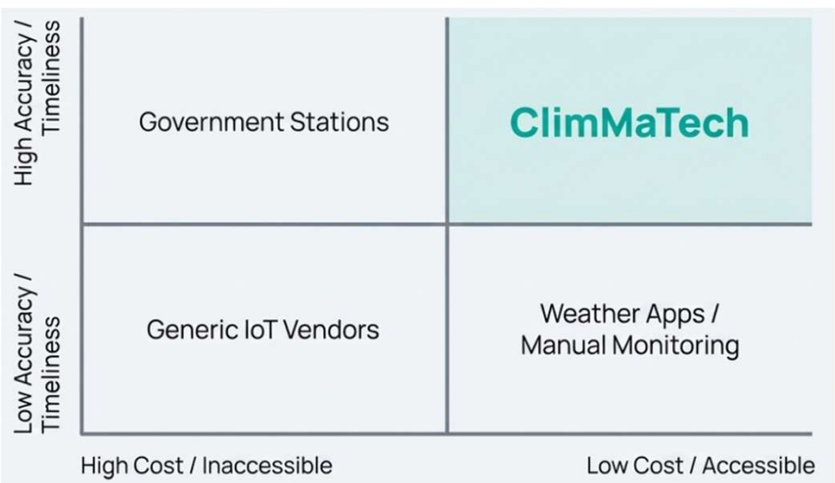
Criteria	ClimMaTech	Govt Hydrology Stations	Generic IoT Vendors	Weather Apps	Manual Monitoring
Hyperlocal Data	Yes (Site-specific)	Limited (Regional)	Potentially	No (Broad area)	Yes (Local)
Real-time Updates	Yes (Continuous)	Often delayed	Yes (If configured)	Delayed	Intermittent
AI Prediction	Yes (Advanced models)	Limited	No (Raw data)	Limited	No
Early Alerts	Yes (Multi-channel)	Delayed	No (Integration needed)	General	Slow
Remote Terrain Suitability	Yes (Low-power)	Limited	Limited	Yes (Mobile)	Yes (Human presence)
Cost & Affordability	Affordable	High	High	Low/Free	Low

⭐ ClimMaTech is the **only solution** combining real-time, predictive, Himalayan-ready, and affordable capabilities.

Key Insights

- ClimMaTech: High accuracy, low cost
- Govt Stations: High accuracy, high cost
- IoT Vendors: Lower accuracy, high cost
- Weather Apps: Low accuracy, low cost

Market Differentiation



Initial TRACTION



- 📍 ***Pilot PoC Validation*** - Successful PoC near IIT Mandi validating sensor accuracy & data reliability.
- 🏨 ***Early Pilot Customer (Barot Valley)*** - Deployment at a luxury riverside hotel for early-warning & water-level monitoring.
- 🌊 ***Collaboration (Jal Shakti Dept., HP)*** - Data validation & field testing through direct connection.
- 🏗️ ***NHPC – Parbati Valley III*** - planning procurement for real-time river monitoring, alerts, analytics & server setup.
- 🏨 ***Luxury Hotel – Agra (Yamuna)*** - Interest for flood early-warning + drainage monitoring.
- 🌆 ***Smart City / Digital Twin Partner*** - Integration discussion for IoT data + Digital Twin analytics.
- 🏛️ ***Himachal Govt Opportunity*** - Discussions for statewide deployment & long-term services.
- 🎓 ***Incubation Support*** at IIT Mandi, IIT Ropar, NSRCEL IIMB for product, tech & business mentoring.
- 🚀 ***MVP & Launch Timeline*** - Testing complete → MVP in build → Certifications & Testing → Commercial launch in March.

Roadmap

Hardware V2 Development

- Enhanced radar water-sensing technology
- Solar-powered deployment units
- Improved data transmission

Full-scale Implementation

- Government partnerships
- Multi-location deployment
- Commercial operations



Hardware Finalization

- Finalize hardware V2 design
- Improve solar power efficiency
- Enhance radar water-sensing

Multi-location Deployment

- Deploy at 5-7 river points
- Field testing in varied conditions
- Collect performance data

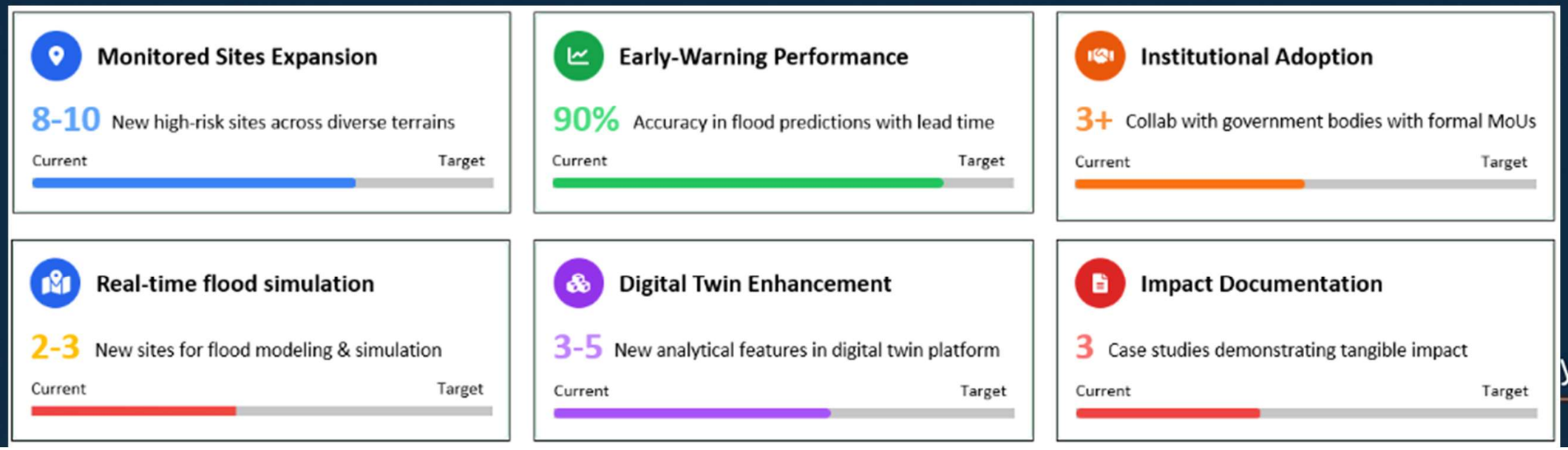
Government Partnerships

- Collaborate with Jal Shakti Dept
- Establish data-sharing protocols
- Seek policy support

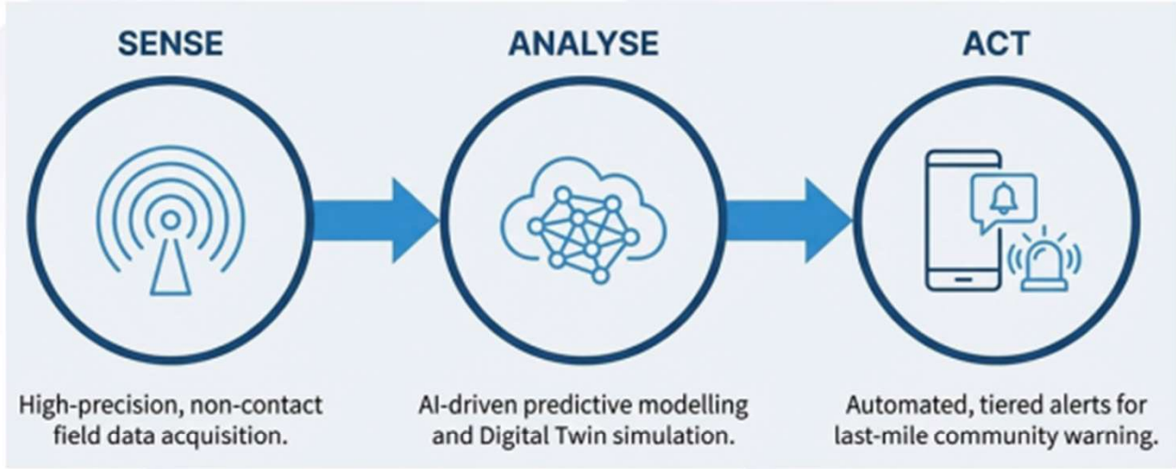
Commercial Rollout

- Market entry strategy
- Secure commercial partnerships
- Scale operations

ClimMaTech provides ground-validated climate intelligence that enables governments and operators to manage risk using real-time data.







Innovation & Creativity

- Unified River Digital Twin: First-of-its-kind integration of AI, IoT, and geospatial mapping for flood resilience.
- Edge ML Processing: Real-time predictions without full internet dependency.
- Digital Twin Dashboard: Real-time visualization & alerts for officials and communities.
- AI Engine: ML-driven 1–3 hr flood prediction using hydrological + weather data.



2 Patents have been published on this innovative idea

SENSE: A Suite of Non-Contact Sensors for Real-Time River Monitoring

Our rugged, solar-powered hardware provides continuous, high-accuracy hydrological data, unaffected by debris, water quality, or weather conditions.



PRAVAAH

Advanced dual-radar sensor simultaneously measuring water level and surface velocity. Ideal for comprehensive flow and discharge analysis.



TARANG

Compact, single-radar sensor for precise water level measurement. Designed for rapid deployment and cost-effective network density.



DRISHTI / DOORDRISHTI

AI-enabled camera and vision module for estimating flow behaviour, surface velocity, and rainfall tracking in urban drains and smaller channels.

All sensors are designed for non-contact measurement, ensuring high reliability and low maintenance.

On-Device Intelligence

Edge-AI Filtering

Onboard Machine Learning reduces signal noise and performs adaptive self-calibration, ensuring data integrity even before it reaches the cloud.

Local Resilience

The Edge-Cloud hybrid design ensures local operation and data logging even during network outages.



Cloud & Analytics Platform

Aagah™ Dashboard

A real-time web dashboard for control rooms (e.g., NHPC, SDMA) providing live data, cross-sectional river visualisation, and alert management.

VisiFlow™ Digital Twin

A live virtual model of the river system, enabling advanced simulation and smart flood planning.

Predictive ML Model

Forecasts 1-3 hour water-level trends using time-series analysis and rainfall correlation.

