

TEAM

02

TEAM

THERMAL OPTIMIZERS

THEME: EXTREME HEAT, THERMAL EQUITY

PROBLEM OWNER
ANYWHEEL



ORGANIZER



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SOLUTION & PROJECT NAME



CoolRide SG – Heat-Aware Routing for Singapore’s Cyclists

CLIMATE PROBLEM



The Thermal Inequality of Urban Mobility

40°C
Peak Temperature

6-8hrs
Daily Exposure

Zero
Shade on Routes

2PM. 35°C. A delivery rider navigates Singapore’s heat corridors. No shade. No relief. Just hours of exposure to survive the shift.

IMPACT SIGNAL (PILOT FIELD DATA, N=15 ACROSS 5 ROUTES)

BEFORE (Standard Route)

Ambient Temp. Exposure
34.4°C
Changi
33.1°C
Avg Temp CBD

Physical Body Exertion
★☆☆☆☆
2.0/5.0
LOW COMFORT



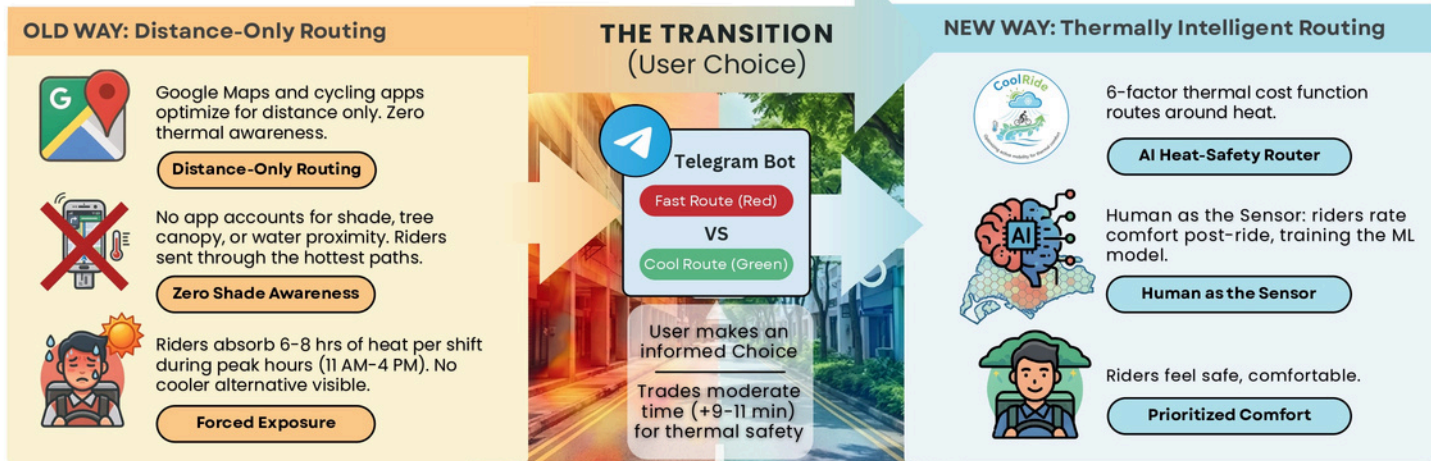
AFTER (CoolRide Route)

Proven Heat Mitigation (Ambient)
-1.7°C
Ambient Reduction
-0.4°C
WBGT

Physical Body Exertion
★★★★★
4.5/5

Worth the extra minutes.
Add travel time 9-11 min (Average)

BEHAVIOR & SYSTEM CHANGE



SOLUTION & PROJECT NAME



CoolRide SG – Heat-Aware Routing for Singapore’s Cyclists

WHO BENEFITS

MIGRANT WORKERS

DELIVERY WORKERS

STUDENT COMMUTERS

RECREATIONAL CYCLISTS

URBAN PLANNERS

ELDERLY RESIDENTS

WHY THIS CAN SCALE

Open Data Stack
Built on OSMnx, NParks trees, NEA weather APIs.

Instant Telegram Bot Access
No app-install barrier. High user adoption.

Zero New IoT Sensors
Riders are the sensors. No hardware needed.

Transferable to Any Tropical City
Jakarta, Bangkok, Chennai, Manila face identical heat challenges.

PROTOTYPING REALITY

WHAT WE'VE BUILT (deployed):

- 1. Live engine, Dijkstra-based**
Flask + Dijkstra over 472K-node Singapore road graph
Custom Dijkstra Pathfinder
- 2. Tree dataset (indexed)**
696K NParks trees indexed via STRtree for canopy coverage
Canopy Coverage Dataset
- 3. 6-factor thermal costing**
6-factor personalized thermal Dijkstra costing
Multi-Layer Thermal Costing
- 4. Telegram Bot (LLAMA 3.1)**
Works on any smartphone, no app install needed
LLAMA 3.1 NLU Dispatcher
- 5. Leaflet.js Map**
Interactive visualization, using
Interactive Visualization
- 6. Comfort rating + pinning**
User feedback: 3-tap comfort rating + cool spot pinning
Crowd-sourced Community Intelligence
- 7. Field-tested**
Validated via field testing in 3 Singapore microclimates (CBD, Changi, Punggol) with handheld WBGT meters
TRL 7 Proof of Concept

HONEST GAPS (not yet):

- 1. ML model (Colab only)**
ML model (Random Forest) in Colab analysis only – not yet in live routing
ML Model Deployment (Not Yet)
- 2. Small pilot base**
(not scale) – limited number
Large Scale Deployment (Not Yet)
- 3. No Anywheel integration**
They provided the problem statement, but no formal Anywheel app integration yet
Native App Integration (Not Yet)
- 4. Field data n=15**
Field data n=15 (direction clear), not statistically comprehensive
Statistical Significance (Not Yet)

Try CoolRide Now! Scan → Telegram bot → thermally optimized route in 30 seconds
https://t.me/coolride_bot

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TEAM
ECOLENS

THEME: EXTREME HEAT

PROBLEM OWNER
INSANE LABS



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HeatSense AI: Hyper-Local Heatwave Risk Intelligence

AI driven system predicting personalized heat-stress risk from weather, housing, and health data, delivering localized alerts via mobile, SMS, voice, and WhatsApp.



CLIMATE PROBLEM

Hidden Heat Risks in Urban Settlements

417 of 734 Indian districts face high heat risk

Hyperlocal Heat Islands

- Dense concrete neighbourhoods often trap heat.
- Temperatures remain dangerously high even at night.

Indoor Oven Effect

- Metal, tin and asbestos roofs trap heat indoors.
- Indoor temperature rises 3–6°C higher than outside

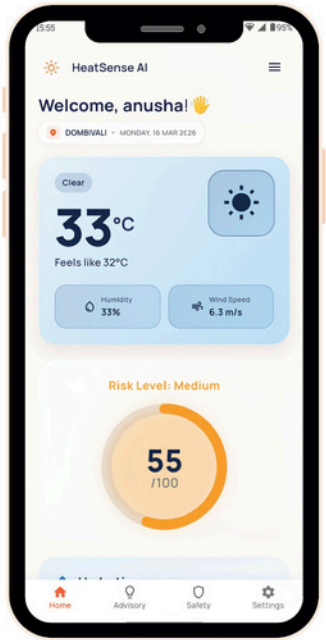
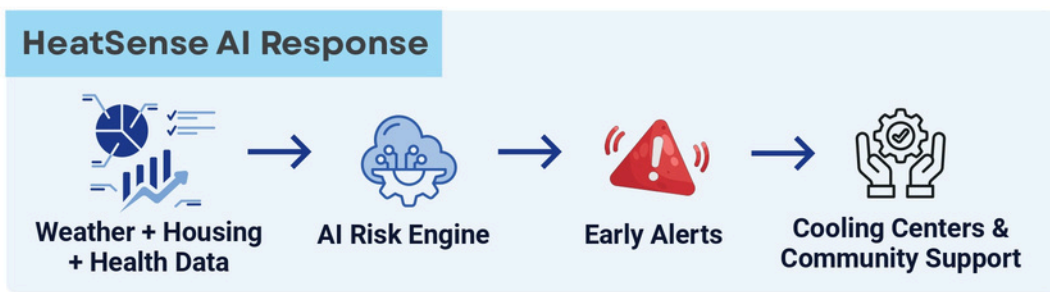
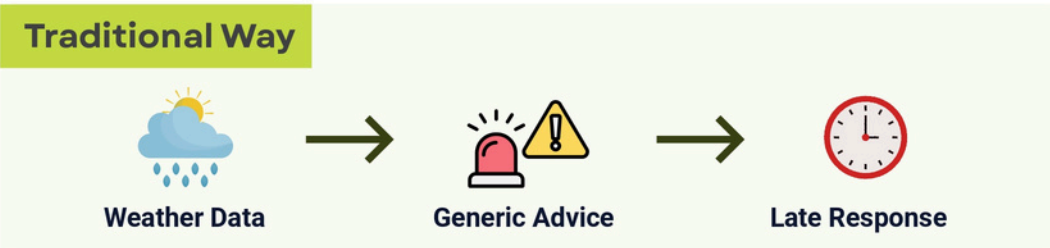
Invisible Health Risk

- Weather apps measure ambient temperature
- 35°C may be dangerous for elderly, children, or pregnant women

PILOT IMPACT RESULTS

BEFORE	AFTER
<ul style="list-style-type: none"> No personalized heat-risk scoring; users rely on generic temperature readings 	<ul style="list-style-type: none"> 90% said heat-risk scores matched their perceived heat exposure
<ul style="list-style-type: none"> Generic advisories for all users 	<ul style="list-style-type: none"> 92% found AI advisories relevant to health & housing
<ul style="list-style-type: none"> No information about nearby cooling centers 	<ul style="list-style-type: none"> 85% found cooling-center locations useful
<ul style="list-style-type: none"> Low public awareness of heat-related health risks 	<ul style="list-style-type: none"> 60% reported higher heat-risk awareness
<ul style="list-style-type: none"> Limited accessibility - alerts mainly via smartphone weather apps 	<ul style="list-style-type: none"> Multi-channel alerts (SMS / WhatsApp / Voice) improved access
<ul style="list-style-type: none"> No validation across diverse user profiles 	<ul style="list-style-type: none"> 40+ users tested in real conditions

BEHAVIOR & SYSTEM CHANGE



HeatSense AI Powered by Meta Technologies

Team EcoLens

HeatSense AI Mobile App

HeatSense AI integrates Meta AI & communication tools to generate heat-risk insights & deliver alerts.



Meta's Llama 3.3 model

AI Advisory Generation

Meta's Whatsapp

Community Alerts Delivery

Meta AI Groq API

Risk Processing Pipeline



SCAN HERE!

TARGET USERS & BENEFICIARIES



Outdoor Workers

Early heat alerts help reduce exposure during extreme temperature peaks



Elderly & Children

Poor thermoregulation makes them vulnerable. Early alerts reduce hospitalizations



Residents in Informal Housing

Housing-aware risk scores warn residents before indoor heat becomes dangerous



Pregnant Women

Context-aware advisories reduce maternal and fetal heat stress risk



Healthcare Providers

Early risk detection helps reduce heatstroke emergency admissions



NGOs & Community Leaders

WhatsApp alerts and cooling-center maps enable coordinated community response

SCALABLE BY DESIGN



Low-cost Cloud-Native Infrastructure Platform



Accessible via Web, Android APK, SMS, and Voice



Multi-language AI (English, Hindi, Tamil, Marathi)



No physical Sensors: Weather & Geospatial APIs



Serverless Backend automatically scales with demand



Deployable across cities & Government Heat Action Plans

SERVICE FLOW



Users



Web / Mobile / SMS / Voice



HeatSense AI Platform



Weather & Geospatial APIs



Cloud Infrastructure (Serverless)

PROTOTYPING REALITY

- TRL 7 deployed – live web & Android APK
- Tested with 40+ real users across India
- 100+ simulated profiles validated edge cases
- Expert review: Dr. Amiya Kumar Tripathy (GeolCT)
- 79.4% users rated experience 5/5
- 91.2% understood risk insights instantly
- <15s alert generation latency
- 95% accuracy in risk personalization

TEAM

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TEAM

SHUDDHUDARA

THEME: AIR POLLUTION

PROBLEM OWNER

VIDAVERDE INTERNATIONAL



ORGANIZER



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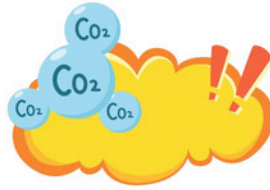
SHUDDHUDARA

SMART INDOOR AIR PURIFICATION

OXYGENZ | PLANTIFY | BIO BLOOM | PURE PULSE

CLIMATE PROBLEM

- 90%** air-conditioned units are completely **lack outdoor air provision**, creating a **toxic trap**
- Standard purifiers drain electricity and **ignore CO2 build-up**



High VOC level are detected in **32 childcare centers** triggering **chronic respiratory illnesses**, while **elders** face a heightened risk of **cardiovascular death** within just 5 days

IMPACT SIGNAL

Bio Bloom



In a controlled 150 sq. ft. living room environment, BioBloom system **reduced PM2.5 levels from 245 $\mu\text{g}/\text{m}^3$ to $<15 \mu\text{g}/\text{m}^3$ (WHO Safe Limit) in 14 minutes**

Plantify



100% Bio-Safe Matching: Algorithm cross-references 4 core metrics (TVOC, CO₂, Temp, Humidity) with user diagnostics to guarantee plant survival in specific micro-climates.

End-to-End Remediation: Successfully bridges the gap from **plant recommendation to action** by **integrating Groq AI**, automated care schedules, and VidaVerde sourcing.

Pure Pulse



Community Carbon Sink: Turning collective neighborhood action into a massive, verifiable carbon sequestering network

Network Density: Rapidly expanding our clean air corridors by increasing active node connections every month

OxyGenZ



Environmental Literacy: Boosting air quality awareness and eco-knowledge among school-age users through gamification

Active Guardianship: Consistently driving high user engagement with a steady stream of weekly environmental tasks

BEHAVIORAL & SYSTEM CHANGE



BEFORE: Polluted Air

Stuffy rooms with hidden pollutants and high CO₂ levels

Feeling helpless and passive about the air quality around you

Taking small actions alone without knowing if they truly matter



AFTER: Clean & Fresh Air

Reduce indoor CO₂ and enhance breathing comfort

Ensuring the right plants are placed and maintained for maximum pollutant-fighting impact

Transforms passive users into active guardians of clean air

Community Sharing that inspires neighborhood-wide action

SHUDDHUDARA

SMART INDOOR AIR PURIFICATION

OXYGENZ | PLANTIFY | BIO BLOOM | PURE PULSE

WHO BENEFITS

Children

Gamified Environmental Literacy

Elders

Passion Stewardship and Wellness



Young Adults

Active Guardianship

Family

Collective Carbon Sink and "Clean Air Corridors" for Home

WHY THIS CAN SCALE

Fun

OxyGenZ provides a **frugal, zero-barrier entry point** through gamification, building an early **environmental literacy**, turning passive commuters into a massive pool of future clean-air guardians.



Passion

Using **Meta Llama AI**, Plantify bridges the gap between a casual hobby and a **lifelong environmental commitment**. By securing an 85% survival rate, we eliminate user frustration, ensuring long-term retention and a growing community of active guardians who are **emotionally invested in their air quality**

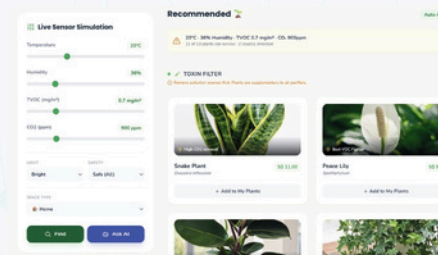
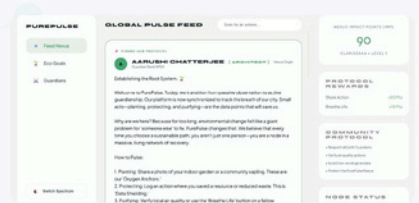


Impact

Gradual trust-building leads users to adopt **high-performance hardware** like BioBloom for **critical zones**. PurePulse connects these individual passion projects into a collective 2.4 Ton monthly carbon sink.



PROTOTYPING REALITY



Scan to visit shuddhudara.vercel.app and witness the transformation of urban air, node by node

TEAM

03

TEAM

IGNIS

THEME: RENEWABLE ENERGY

PROBLEM OWNER

EarthON Foundation



ORGANIZER



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SOLUTION & PROJECT NAME



TEAM IGNIS **YDCT 2026**
NAV DRISHTI



Nav Drishti

IOT EMISSION MONITORING

AI-BASED DECISION SUPPORT

TRACK. ANALYZE. OPTIMIZE.

BIOGAS BLEND OPTIMIZER

GIS INDUSTRIAL MAPPING

CLIMATE PROBLEM



Increase in **Respiratory Diseases** linked to **emission** from **coal plants**

1 Billion tonnes/year



of **Coal** is **mined** for usage in Thermal power plants in India

10,000 tonnes/year

PM 2.5 of Total **Suspended Particulates** emitted



PROGRAMMABLE AUTOMATION

Lack of Automated Emission Feedback for Plant Operators leads to **unchecked emissions**

IMPACT SIGNAL (ESTIMATED WEEKLY PILOT)

BEFORE NAV DRISHTI

- Manual CSV logging, no real time data
- Fuel blend ratios set by intuition, not data
- Emission spikes detected hours or days late
- No GIS view of biomass supply proximity

Bhojudih Coal Washery
2M tons/month capacity processed with zero automated emission feedback loop

AFTER NAV DRISHTI

- Live IoT dashboard: Temp, TVOC, PM2.5
- LLaMA-powered AI flags anomalies and recommends action
- Biogas blend calculator with before/after emission curves
- GIS map links plants to nearby biomass suppliers via WhatsApp

Bhojudih Coal Washery
15% biogas blend tested → proportional reduction in TSP, PM2.5 and SO₂ output

BEHAVIOR & SYSTEM CHANGE

OLD WAY

- Relying on Logbooks and Manual sensor reading
- Fuel decisions made without emissions cost modelling
- Biomass suppliers unknown, coal dependency structurally established
- Communities have no access to real-time air quality data

NEW WAY - NAV DRISHTI

- Operators monitor emissions live and AI models give actionable recommendations
- Blend Optimizer models coal-to-biogas transitions with emission savings
- GIS hotspot data visible to operators, sustainability teams, and regulators
- Youth managed IoT network creates green monitoring jobs in industrial belts

"Reliable data is what separates pilots from production systems."
— Pradeep Kumar, Addl. GM, Bhojudih Coal Washery

SOLUTION & PROJECT NAME



TEAM IGNIS 🌍 🗺️ **YDCT 2026**



Nav Drishti

NAV DRISHTI

TRACK. ANALYZE. OPTIMIZE.

IOT EMISSION MONITORING

AI-BASED DECISION SUPPORT

BIOGAS BLEND OPTIMIZER

GIS INDUSTRIAL MAPPING

WHO BENEFITS



Industrial Sustainability Teams



Plant Operators & Supervisors



Industrial Communities



Farmers & Biomass Suppliers



Youth & Green Job Seekers



Regulators & Policy Makers

WHY THIS CAN SCALE

3+

States already in scope

Jharkhand, Chhattisgarh, and Odisha, with established EarthON Foundation networks for deployment.

ZERO Infrastructure lock-in

Any plant with internet access can onboard. No proprietary hardware is required.

OPEN Meta AI ecosystem advantage

LLaMA and Mapillary keep AI inference costs low and regionally adaptable.



Globally replicable architecture

The IoT + dashboard + GIS stack applies to any coal dependent industrial cluster.

PROTOTYPING REALITY



IoT deployment at an industrial bakery, Indonesia. Temperature, TVOC and PM 2.5 captured by sensors, transmitted **live** via **MQTT to Supabase Cloud backend**

Testing and Validation done by **Mr. Pradeep Kumar, Addl. GM, Bhojudih Coal Washery** (2M t/month capacity). Blend Optimizer modelled against JSW Steel Jharsuguda (4.5 MTPA, 99% ESP/FGD).

Simple alerts and edge computing ensure reliability in harsh bakery environments, while the focus has evolved from emissions tracking to enhancing **real-time operations** and **team communication**.

TEAM

04

TEAM

BOJONGSANTOZZZ

THEME: **AIR POLLUTION**

PROBLEM OWNER

BMKG



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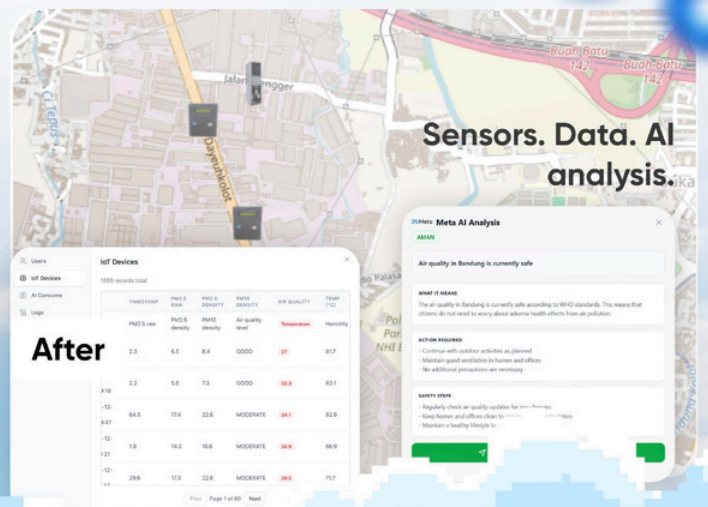
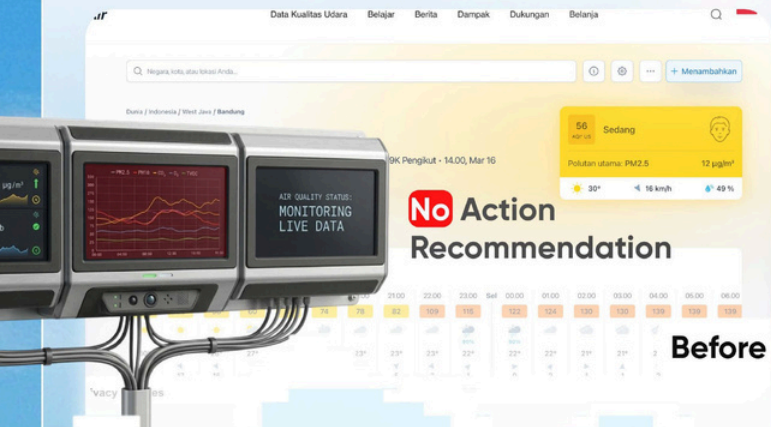
Solution & Project Name

HAWA IoT and AI based air quality monitoring system and recommendation.

Climate Problem

Urban air pollution is often invisible to citizens. Many communities lack access to localized air quality data, making it difficult to understand pollution risks and take preventive health actions.

Impact Signal (Estimated Weekly Pilot)

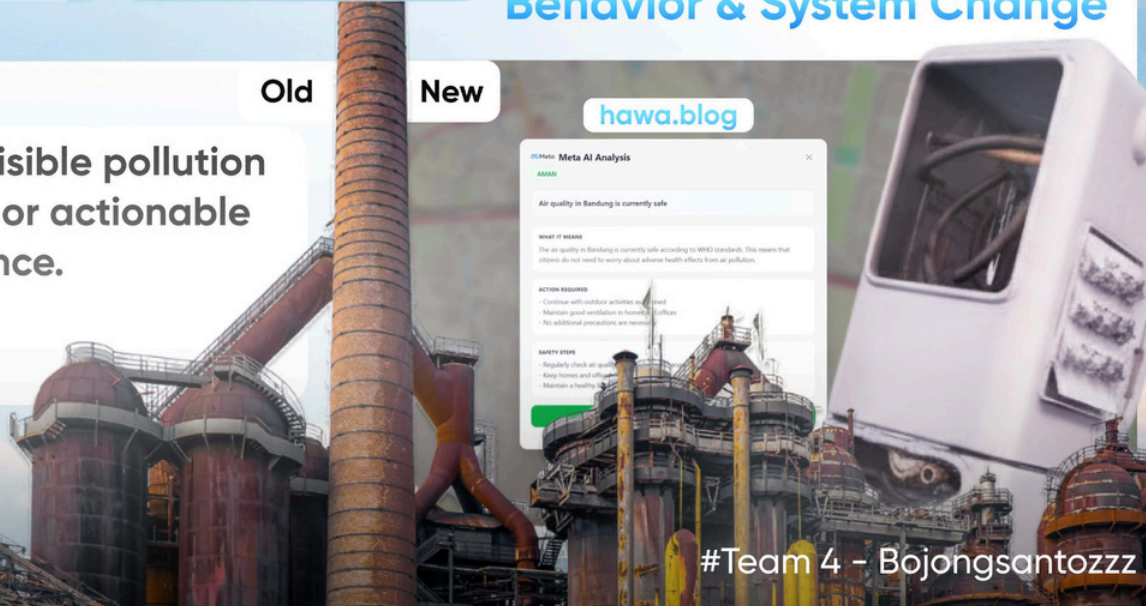


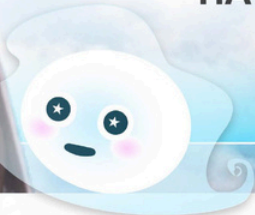
Behavior & System Change

Old

New

Reacting to visible pollution without data or actionable health guidance.





Solution & Project Name

HAWA IoT and AI based air quality monitoring system and recommendation.

Who Benefits



Residents of the Bandung area



Industry
Understand the pollution they generate.



Local governments
Enabling data driven environmental policies.



Researchers & universities
Access to Bandung air pollution data.



Health institutions
Supporting public awareness and pollution alerts.



Environmental activists
Helping residents take preventive action.

Why This Can Scale

LOW COST IOT sensors reduce deployment cost.
Cloud infrastructure enables city scale monitoring.

Prototyping Reality



TEAM
05

TEAM
ONE FOR ALL

THEME: RENEWABLE ENERGY

PROBLEM OWNER
YAYASAN RUMAH ENERGI



ORGANIZER



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SOLUTION & PROJECT NAME

MizuGami - Smart IoT Irrigation System

MizuGami is an IoT-based smart farming solution designed to monitor soil moisture in real-time and automate irrigation processes. Using soil moisture sensors, the system collects data from the field and sends it to a web dashboard and WhatsApp notifications, allowing farmers to monitor soil conditions and optimize irrigation efficiently.

CLIMATE PROBLEM

Farmers often face challenges such as:

- unpredictable soil moisture levels
- inefficient irrigation practices
- excessive water usage
- frequent manual field inspections



IMPACT SIGNAL (ESTIMATED WEEKLY PILOT)

BEFORE

- Farmers manually check soil conditions
- Irrigation based on estimation
- High water waste
- Frequent field inspections

AFTER

- Real-time soil moisture monitoring
- Automated irrigation system
- Efficient water usage
- Remote monitoring via dashboard & WhatsApp

BEHAVIOR & SYSTEM CHANGE

OLD WAY

- Traditional farming relies on manual soil checking and experience-based irrigation, requiring farmers to frequently visit fields to inspect soil conditions.

NEW WAY

- Smart farming with IoT sensors and automated irrigation, enabling farmers to monitor soil conditions remotely and make data-driven decisions.

SOLUTION & PROJECT NAME

MizuGami - Smart IoT Irrigation System

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WHO BENEFITS



Farmers can monitor soil moisture and make better planting decisions.



Improve agricultural productivity and farming efficiency.



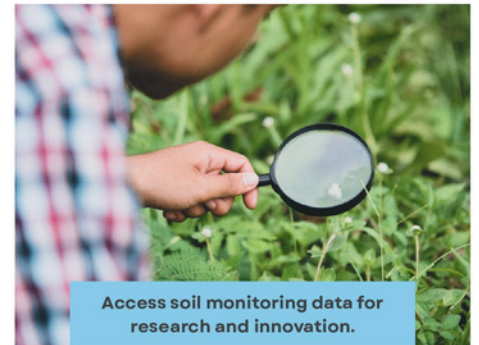
Reduce water waste through efficient irrigation management.



Support sustainable farming and environmental conservation.



Provide agricultural data for better policy and planning.



Access soil monitoring data for research and innovation.

WHY THIS CAN SCALE

This solution has strong scalability potential because:

- IoT sensors are relatively low-cost
- System can be applied to different crops
- Dashboard enables centralized monitoring
- Automation reduces farmer workload
- Can be expanded with additional sensors (temperature, pH, rainfall)

PROTOTYPING REALITY

The MizuGami prototype was deployed in an agricultural field in Bojongsoang, Bandung, Indonesia.

The system consists of:

- Soil Moisture Sensor
- Airdrop Sensor
- Humidity and Temperature Sensor
- GPS Tracking
- Microcontroller (IoT device)
- Automated Irrigation Pump
- Water Tank System
- Web Monitoring Dashboard
- WhatsApp & SMS Notification System

The prototype demonstrates real-time soil monitoring and automatic irrigation based on soil moisture thresholds.

TEAM

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AEGIS URBAN

THEME: FLOOD

PROBLEM OWNER
STS GLOBAL



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FloodSafe

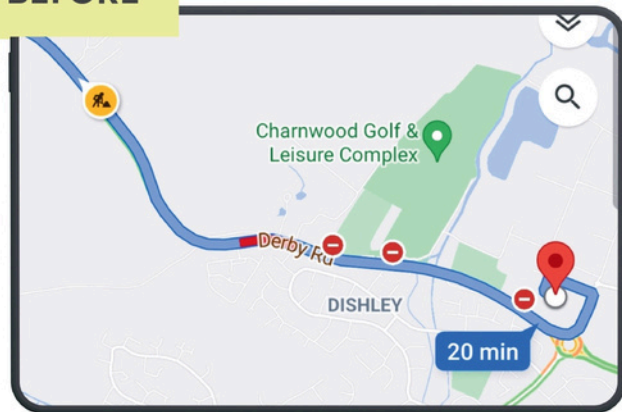
Floods Don't Wait, Neither **Should Safety**

CLIMATE PROBLEM

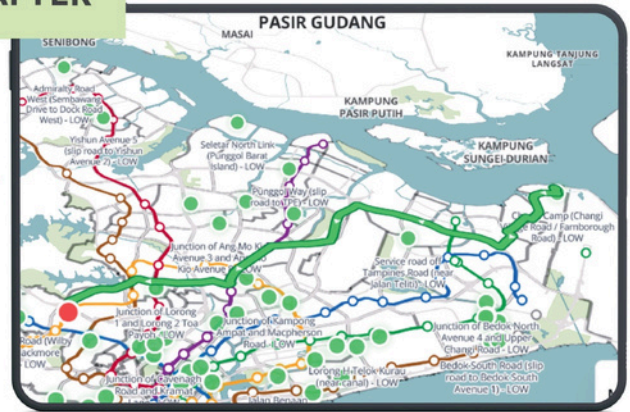
How can cities identify the **20% of high-risk zones** causing **80% of flooding** and respond before it's too late?

IMPACT SIGNAL (ESTIMATED WEEKLY PILOT)

BEFORE



AFTER



BEHAVIOR & SYSTEM CHANGE

OLD WAY



NEW WAY

LLaMA by Meta





FloodSafe

Floods Don't Wait, Neither

Should Safety

WHO BENEFITS

Daily Commuter



Safe Travel & Alerts

Daily Essentials Supply



Smooth Logistics

Disaster Relief Team



Faster Response

Commercial Drivers



Optimized Routes

Emergency Services



Real-Time Coordination

Local Vendors



Business Continuity

WHY THIS CAN SCALE



Works for any city size

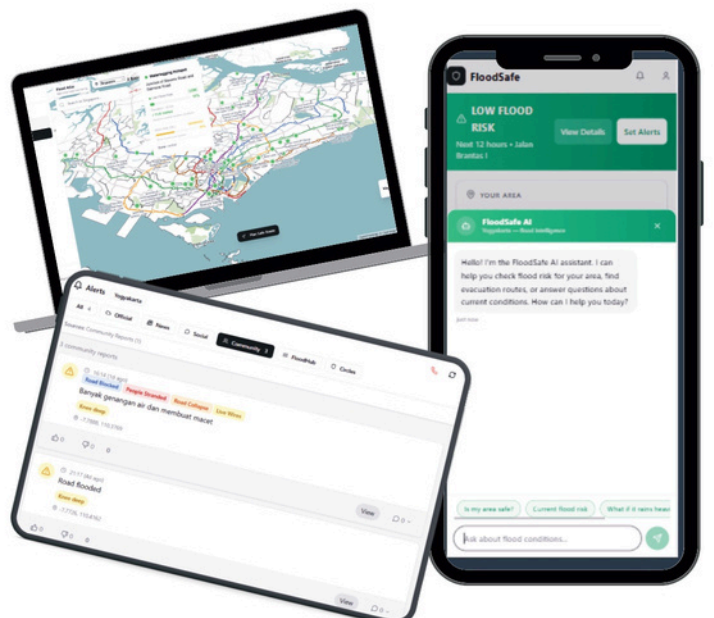


Community + Govt. Collaboration



Low Operational Cost!

PROTOTYPING REALITY



TEAM
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TEAM
HELIO

THEME: RENEWABLE ENERGY

PROBLEM OWNER
**WEST JAVA PROVINCIAL ENERGY AND
MINERAL RESOURCES AGENCY (ESDM)**



ORGANIZER



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SOLUTION & PROJECT NAME



CLIMATE PROBLEM

West Java sits on **192 GW** of renewable energy potential, yet over **75%** of its energy still comes from fossil fuels.

Schools, small businesses, and communities struggle with:

- High electricity costs
- Lack of access to solar financing
- No visibility into savings or ROI



★ The real problem is not energy, it's lack of transparency and actionable intelligence.

Solar energy is **available** but decision-making is **broken**.

- Without clear insights, communities:
- Delay adoption
 - Depend on fossil fuels
 - Lose economic and environmental opportunities

IMPACT SIGNAL (ESTIMATED WEEKLY PILOT)

BEFORE

- 95–98% system uptime
- 3–5 sec data processing latency
- Higher deviation in ROI/payback calculations
- Slow dashboard loading (heavy upfront components)

AFTER

- ~99% system uptime**
- <2 sec data processing latency**
- High financial calculation accuracy**
- Faster dashboard with optimized loading**



UP TO 35% BETTER COST AWARENESS

2X FASTER DECISION CLARITY

INCREASED ADOPTION INTENT



BEHAVIOR & SYSTEM CHANGE

OLD WAY

- Solar seen as expensive & complex
- Decisions based on guesswork
- Energy treated as a monthly expense
- No collaboration between users
- Data exists but is not understandable

NEW WAY

- Solar is a data-driven financial decision
- Energy becomes a trackable asset
- AI simplifies complex analytics into insights
- Communities access shared knowledge & data
- Users take proactive control of energy usage

PowerTrack doesn't just track energy, it empowers communities to adopt it.



SOLUTION & PROJECT NAME





POWERTRACK
Your smart solar dashboard & community platform

WHO BENEFITS

SCHOOL & STUDENTS

Reduce electricity costs and turn campuses into living solar labs



SMEs & INDUSTRIES

Cut operational costs & improve profit margins with solar insights



RURAL COMMUNITIES

Affordable energy & insights to enable reliable, community-driven solar adoption



GOVT. & POLICY MAKERS

Track adoption, impact, and optimize renewable strategies



First-Time Solar Adopters

Make confident decisions with clear insights on cost, savings & performance



FUTURE GENERATIONS

Cleaner environment with reduced emissions & sustainable growth



WHY THIS CAN SCALE

- Works with or without hardware (can support existing systems + simulated data)
- Offline-first capability (Bluetooth/USB sync for low connectivity regions)
- WhatsApp integration ensures accessibility
- AI-powered insights remove technical barriers
- Community-driven model enables network effects
- Built on scalable cloud infrastructure
- Designed for real-world constraints, not ideal conditions

PROTOTYPING REALITY

- Functional full-stack platform deployed
- Real-time dashboard with live data simulation
- AI chatbot (LLaMA-based) for user guidance
- Financial analytics (ROI, payback, savings) validated
- Tested with ~40 users across multiple countries
- TRL-7: Operational prototype in real environments

TEAM

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TEAM

AERO GUARDIANS

THEME: FIRE & FLOOD MONITORING

PROBLEM OWNER
PM HAZE



ORGANIZER



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SOLUTION & PROJECT NAME



CLIMATE PROBLEM

Forest fires and floods have been on the rise... One of the causes are **PEATLANDS**, wet lands that is caused by stacks of decaying plants. Detection of peatland fires come TOO LATE for us to react.

IMPACT SIGNAL (ESTIMATED WEEKLY PILOT)

BEFORE

- Fighting climate change blind
- Difficult monitoring
- Limited infrastructure



AFTER

- Warnings through WhatsApp
- Allow communities to predict peat fires and floods
- Get visualized data

BEHAVIOR & SYSTEM CHANGE

OLD WAY

- Fire and peatland risks are noticed too late
- Monitoring is manual, delayed, and fragmented
- NGOs rely on historical data for advocacy
- Decisions are reactive and slow



NEW WAY

- Proactive fire prevention using AI predictions
- Continuous real-time environmental monitoring
- Data-driven alerts and faster response systems
- Reduced damage through early intervention

SOLUTION & PROJECT NAME



WHO BENEFITS



Farmers



Firefighters



Elderly



Children



Locals

WHY THIS CAN SCALE

- Help leaders engage their communities to become aware of climate change
- Data gathering in the area helps AI become more accurate
- Build skills and create jobs for the locals

PROTOTYPING REALITY

- Trailed in a Sungai Tohor, Riau in Indonesia
- Test effectiveness and accuracy
- Make sure solution has impact & identify flaws
- Keep AI up-to-date & make sure every step from IoT hardware to WhatsApp chatbot is integrated