



SENSORY EARTH INTELLIGENCE SYSTEMS · COMPANY
INTRODUCTION · 2026

SENSE THE EARTH. PROTECT ITS PEOPLE.

Planet-scale sensing for natural hazards: dense, affordable, citizen-hosted networks and the early-warning intelligence behind them.

SEIS.EARTH · GEOSHAKE.ORG

MOST OF THE PLANET IS STILL UNOBSERVED AT THE SCALE THAT MATTERS.

30–60 km

The typical distance between conventional seismic stations. Whole towns sit unobserved between them.

40%

Share of countries that still report no multi-hazard early warning system.

\$224bn

Natural-disaster losses in 2025. Less than half of it was insured.

A SENSOR IN EVERY COMMUNITY.

We build low-cost sensor networks hosted by the people they protect, so that no town is left unobserved when the ground moves.

DENSE

A station in every neighbourhood, not one per region.

AFFORDABLE

Instruments priced for households, schools and small communities.

HOSTED BY COMMUNITIES

Built by the people it protects, and open to them.

A SENSING PLANET FOR A SAFER TOMORROW.

Within a decade: every natural hazard observed at the scale that matters, warnings that reach people in seconds, and data that is open to everyone who needs it. Built one community at a time.

Six hazards, one platform: earthquakes, tsunamis, volcanic eruptions, floods, landslides, wildfires.

Observation owned by the many: families, schools and cities hosting the instruments.

Warnings and data as a public good, sustained by a company that exists for its mission.



OBSERVATION BY THE MANY, NOT THE FEW.

	Conventional monitoring	Sensory Earth
Who owns the instruments	Institutions and agencies	The people the network protects
Density	One station every 30-60 km	A station in every neighbourhood
Cost of a station	Tens of thousands per unit	Within reach of a household or school
Data	Closed or delayed	Open and live, in FDSN standards
How it grows	With budgets	With every new host

Dense, affordable, citizen-hosted networks do not replace national observatories. They fill the space between their stations, where people actually live.

INSTRUMENTS. INTELLIGENCE. PARTNERSHIP.



SENSOR NETWORKS

Low-cost instruments hosted by the people they protect, observing the ground, the coast and the air at a density no single institution could build alone.

LIVE TODAY: GEOSHAKE, THE EARTHQUAKE NETWORK



DATA & EARLY WARNING

The platform behind every network: stations cross-check one another, confirmed events reach phones, buildings and infrastructure within seconds, verified data is published openly.

SENSE • CONFIRM • PROTECT



RESEARCH & PARTNERSHIPS

With universities, civil-protection agencies, insurers and infrastructure operators, we bring dense sensing to the regions that need it most - one hazard programme at a time.

INSTITUTIONS, CITIES, COMMUNITIES

SENSE. CONFIRM. PROTECT.

T + 0.0 S

SENSE

Each station samples ground motion continuously and flags unusual shaking on the device itself.

T + UNDER 1 S

CONFIRM

Neighbouring stations cross-check the signal, rejecting traffic, construction and quarry blasts.

T + SECONDS

PROTECT

Confirmed alerts reach phones, buildings and infrastructure; verified data supports faster recovery.



A confirmed alert spreads outward from the first station to detect it, typically 5-20 seconds before strong shaking arrives.



07 · THE FIRST PROGRAMME

GEOSHAKE: THE EARTHQUAKE NETWORK.

A compact ground-motion sensor, the GeoShake T1, turns homes, schools and workplaces into seismic observatories that report to the platform around the clock.



GEOSHAKE
A SEIS NETWORK

FDSN REGISTERED · NETWORK CODE GW

Listed by the International Federation of Digital Seismograph Networks, with its own FDSN data centre: standard station and event web services, a real-time SeedLink feed and open data under CC BY 4.0.

500+

STATIONS REPORTING

20K+

USERS

Open source

FIRMWARE, GPL-3.0

iOS · Android · Web

APPS AND LIVE MAP

SIX HAZARDS. ONE PLATFORM.



EARTHQUAKES

LIVE

Ground-motion sensing and early warning



TSUNAMIS

IN DEVELOPMENT

From the first shaking to the arrival of the sea



VOLCANIC ERUPTIONS

PLANNED

Tremor and ground movement near active volcanoes



FLOODS

PLANNED

Rainfall and river levels where it floods first



LANDSLIDES

PLANNED

Slope movement and saturated ground



WILDFIRES

PLANNED

Heat, smoke and dryness at the forest edge

FOR THE PEOPLE ON THE GROUND, AND THE INSTITUTIONS THAT PROTECT THEM.

PEOPLE

Households and families, with alerts on the phone

Schools and neighbourhoods that host a station

Anyone who follows the live map

INSTITUTIONS

Cities and civil-protection agencies

Infrastructure operators: rail, utilities, buildings

Insurers and universities working with verified data

A confirmed alert typically arrives 5-20 seconds before strong shaking: enough to slow a train, shut a gas valve, open a door or take cover.

MISSION BEFORE MARGIN.

Sensory Earth is a company, but profit is not its purpose. What it earns keeps the network growing, maintained and independent.

OPEN BY DEFAULT

Firmware and software are published openly, so the network can be examined, improved and trusted.

AFFORDABLE BY DESIGN

Low-cost instruments mean taking part is not reserved for wealthy places.

IN SERVICE OF THE PUBLIC

The network exists to protect people. Commercial work sustains that purpose; it never replaces it.

SCIENCE WITH COMMUNITIES

We work alongside the people who host our sensors, not merely in their neighbourhoods.

FOUR WAYS TO TAKE PART.

01

HOST A STATION

Place a GeoShake T1 in your home, school or workplace and add a point of observation to the map.

[GEOSHAKE.ORG/GEOSHAKE-T1](https://geoshake.org/geoshake-t1)

02

SPONSOR A REGION

Fund an array of stations for a community that needs one but cannot yet afford it.

[GEOSHAKE.ORG/SPONSOR-A-REGION](https://geoshake.org/sponsor-a-region)

03

RESEARCH TOGETHER

Joint studies, pilot deployments and data access for universities and public bodies.

[INFO@SEIS.EARTH](mailto:info@seis.earth)

04

BUILD ON THE DATA

Open firmware, an open developer API, FDSN web services and integrations for buildings and infrastructure.

[API.GEOSHAKE.ORG](https://api.geoshake.org)



SENTIMUS UT SERVEMUS

We sense, that we may protect.

REGISTERED IN ENGLAND AND WALES.

LEGAL NAME	Sensory Earth Intelligence Systems Ltd
COMPANY NUMBER	17473383
INCORPORATED	22 September 2026, England and Wales
REGISTERED OFFICE	71-75 Shelton Street, Covent Garden, London WC2H 9JQ
ACTIVITIES (SIC)	26511 • 62012 • 71129 • 72190
NETWORK	geoshake.org



SENSE THE EARTH WITH US.

Partner with us, sponsor a region, host a station, or build on the open data. Every new point of observation makes someone, somewhere, a little safer.

info@seis.earth · seis.earth · geoshake.org

SENSORY EARTH INTELLIGENCE SYSTEMS LTD · LONDON

GEOSHAKE T1 · TECHNICAL SHEET.



Specification	Value
Instrument	GeoShake T1 · quad-MEMS accelerometer array
Sampling	100+ readings per second, on-device detection
Connectivity	Wi-Fi, encrypted
Power	USB-C, under 1 W
Firmware	Open source (GPL-3.0), on GitHub
Apps	iOS, Android and web; live map
Data access	Open API · FDSN station and event web services · SeedLink · CC BY 4.0
FDSN registration	Network code GW · data centre GEOSHAKE
Integrations	Home Assistant, Apple Home, industrial relays

SOURCES AND NOTES.

World Meteorological Organization	Global Status of Multi-Hazard Early Warning Systems 2025
Munich Re	Natural disaster figures 2025, January 2026
United Nations	Early Warnings for All initiative (coverage for everyone by 2027).
Companies House	Sensory Earth Intelligence Systems Ltd, company 17473383
GeoShake	Network figures, instrument specification and open-source firmware
FDSN registry	GEOSHAKE data centre and network GW (GeoShake Global Seismic Network, DOI 10.7914/ft1b-4x43).

Photographic imagery in this deck is AI-generated for illustration, except the GeoShake T1 product images. Station positions on the globe are illustrative; live coverage is shown at map.geoshake.org.