

HACK THE  
PLANET

TECHNOLOGY FOR GOOD



PRODUCT OVERVIEW · 2026

# ScannerEdge

Passive radio-frequency detection that warns rangers about people in places they shouldn't be.

## ABOUT HACK THE PLANET

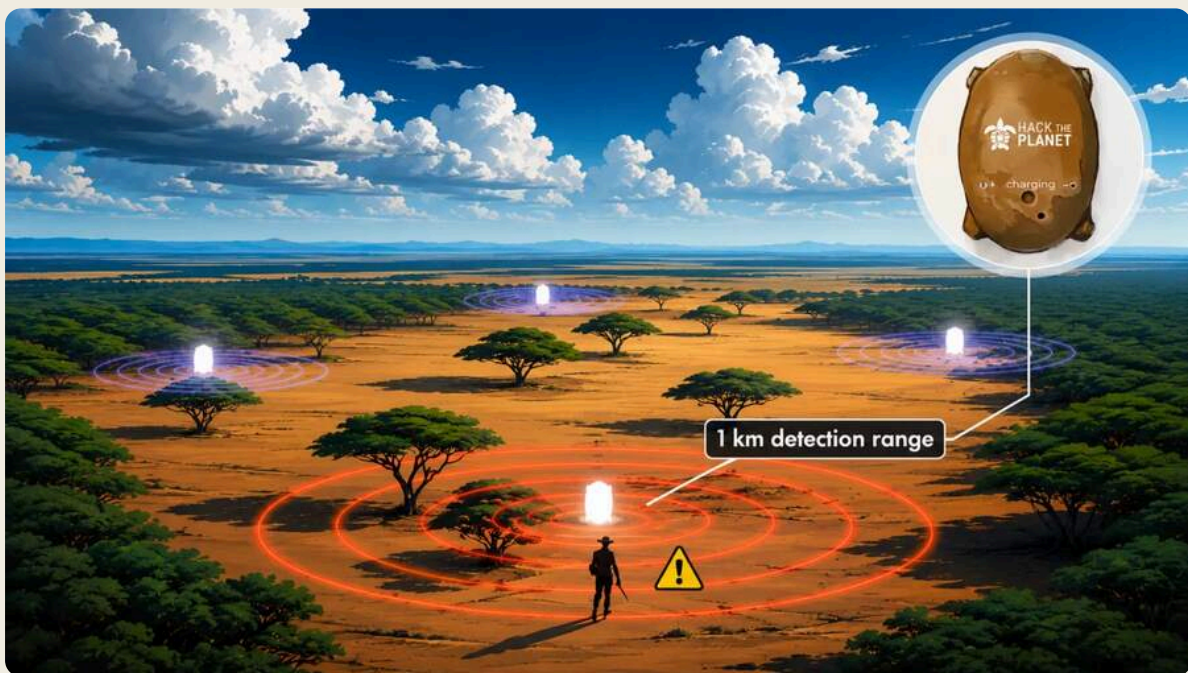
*Tech for good across three pillars: wildlife conservation, social impact, and innovation. We're a non-profit foundation working alongside rangers, NGOs and communities worldwide.*

## THE PROBLEM

Rangers patrol vast protected areas where poachers move silently and at night. Cameras and motion sensors miss covert activity, drones can be heard, and patrols can't be everywhere at once. Early warning is the difference between responding from a safe distance and stumbling into an active incident.

## What it does

ScannerEdge is a passive RF detector that alerts rangers to human presence by listening for cellular and satellite signals — without collecting personal data.



HOW IT WORKS

## What it does

ScannerEdge is a **passive human-presence detection system** designed for anti-poaching and conservation operations. Instead of cameras or motion sensors that can miss covert activity, it listens for the radio-frequency signals that mobile phones, satellite phones and VHF radios unavoidably emit.

When the unit picks up a signal, it sends an alert to rangers — often hours before a poacher would otherwise be detected. Because it never decodes the signal or collects personal data, it works within the bounds of privacy regulations.

## Why we built it

ScannerEdge was developed because traditional monitoring tools weren't enough. Cameras only see what's in front of them. Motion sensors trigger on every animal that walks past. Drones can be heard and don't run all night.

Rangers we work with are taking real risks to walk patrol routes where something might be going on. They need something that can quietly listen, all day, for the one signal that actually matters — and tell them about it without giving anything away.

ScannerEdge is part of Hack The Planet's mission to deliver practical, field-proven technology that supports conservation where it matters most — on the ground.

[ CAPABILITIES ]

# Field-built capabilities

ScannerEdge runs unattended for months in remote, demanding environments — quietly listening and giving rangers the information they actually need.

01

## Passive RF detection

Listens for signals from mobile phones, satellite phones and VHF radios.

02

## Long-range coverage

Detects activity within a  $\pm 1$  km radius, varying with terrain and vegetation.

03

## Real-time alerts

Pushes notifications to rangers the moment activity is picked up — they choose when and how to respond.

04

## Solar-ready, low-power

Optimized for off-grid deployment with minimal maintenance. Months of unattended operation.

05

## Remote management

Configure, tune and monitor every unit from a phone or browser. No need to visit the device.

06

## Rugged enclosure

Built for heat, dust, rain and curious wildlife. Tested in southern African parks since 2018.

07

## Satellite & LoRaWAN backhaul

Works where cellular doesn't. Backhaul over LoRaWAN local network or Iridium satellite.

08

## Field-proven

Refined across multiple ranger deployments — not designed in a lab.

[ WHAT SETS IT APART ]

## Why ScannerEdge?

There are plenty of camera traps and motion sensors. Here's why ScannerEdge is different.

### 01 Detects illegal human activity at long range

Every poacher's phone, VHF radio or sat-phone emits radio signals — even when not in use. ScannerEdge listens for those signals from up to ±1 km away, warning rangers about people in protected zones hours before cameras or patrols would otherwise notice.

### 02 Privacy-respecting by design

We never decode signals or collect personal data. Just detect that a device is present, and tell the rangers.

### 03 Six seasons of active deployment

Running in real anti-poaching operations across southern Africa since 2019 — through dust, heat and the occasional curious elephant. Every season surfaces something new; the next firmware revision absorbs it.

## What you can use ScannerEdge for

Built for places where illegal activity is a risk — and for the teams that need to know early.

#### Anti-poaching ranger alerts

Pre-position units along corridors poachers use; rangers get an alert long before tracks or shots would give them away.

#### Monitoring restricted zones

Nature reserves, no-entry zones and research sites — keep eyes on them without intruding on the landscape.

#### Illegal logging & timber theft

Detect the work crews carrying phones into otherwise empty forest concessions, often the first sign an operation has moved in.

#### Wildlife-trafficking interdiction

Pair with park-edge deployments to flag movement along known smuggling corridors and hand-off points.

#### Phone-free area enforcement

Detect unauthorized phone use in places where they aren't allowed.

[ FIELD DEPLOYMENTS ]

## Where ScannerEdge is deployed

ScannerEdge is a passive RF detector — quietly listening for the signals that every phone, VHF radio and sat-phone unavoidably emits. When activity is picked up in a zone where there should be none, rangers get an alert hours before traditional patrols would notice.



2024 · SOUTH LUANGWA, ZAMBIA

### A LoRaWAN-backed anti-poaching network

Deploying ScannerEdge across one of Zambia's most biodiverse and vulnerable wildlife regions.

With Conservation South Luangwa



2024 · NAMIBIA

### Detecting poachers by their phones and radios

A discreet, technology-driven early-warning system for covert anti-poaching operations.



2023 · GONAREZHOU NP, ZIMBABWE

### Detecting poachers before they reach wildlife

Deploying ScannerEdge to detect illegal human activity inside one of Zimbabwe's largest protected areas.

With Gonarezhou Conservation Trust · Frankfurt Zoological Society

[ FROM THE FIELD ]

## In the field



## Want to deploy ScannerEdge in your park?

We work with rangers, NGOs and protected-area managers. Tell us about your situation — we'll see if ScannerEdge is the right fit.

Contact us

Support our work

Email [info@hack-the-planet.io](mailto:info@hack-the-planet.io)

Web [hack-the-planet.io](http://hack-the-planet.io)

# Ten years of innovation

Hack The Planet was founded in 2016 on a clear conviction: the right technology, in the right hands, can move the needle on the world's biggest problems. We bring engineering expertise to the field — for wildlife, for communities, and for the people who protect them.

Ten years later we've worked across **9+ countries** with **34+ partners**, and in 2025 we became an official Dutch non-profit foundation. The mission has not changed: build technology that helps wildlife, communities and the people who protect them.

Our work is funded by donations, grants and partnerships. Because we are an **ANBI** (Algemeen Nut Beogende Instelling), donations from the Netherlands are tax-deductible.

**Q42** is our **founding donor** — and has made Hack The Planet possible. From the start they have contributed funding, engineering time and a home to grow from. Hack The Planet now operates as an independent foundation, but Q42 remains a long-term supporter — and the place where it all started.

LEGAL NAME	STATUS	KVK	IBAN
Stichting Hack The Planet	ANBI-registered	98279238	NL79 TRIO 0321 1304 05

## Where our technology makes a difference

Where our technology makes a difference — from wildlife rangers in remote national parks to local communities.

### 01

#### Conservation

Anti-poaching, wildlife monitoring and human-wildlife coexistence — built with rangers, NGOs and research partners on the ground.

### 02

#### Social impact

Tech serving people — from VR experiences for elderly care to digital interventions tackling youth violence.

### 03

#### Innovation

New concepts that prove what's possible — affordable medical devices, autonomous drones, immersive humanitarian training.

# 01 · Conservation

## Technology that protects wildlife

Most of our conservation work happens in protected areas across the globe — places where rangers patrol thousands of square kilometres without cell coverage, where poachers move silently at night, and where an elephant or a brown bear stepping into a village can change lives in seconds.

We build the hardware and software that ranger teams, NGOs and research institutions rely on in exactly those conditions. Solar-powered, satellite-connected, ruggedized for heat, dust, rain and curious wildlife — and refined every season by the people who actually use it in the field.

The result is a small set of three field-proven platforms — and the deployments that prove them.



### [ OUR PRODUCTS ]

Three field-proven platforms, deployed in collaboration with our conservation partners worldwide.



Product 01

### ScannerEdge

Passive radio-frequency detection that warns rangers about people in places they shouldn't be.



Product 02

### Instant Detect

Protect wildlife faster, smarter, anywhere — AI camera traps that send images via satellite, in near-real-time.



Product 03

### Smart Deterrent

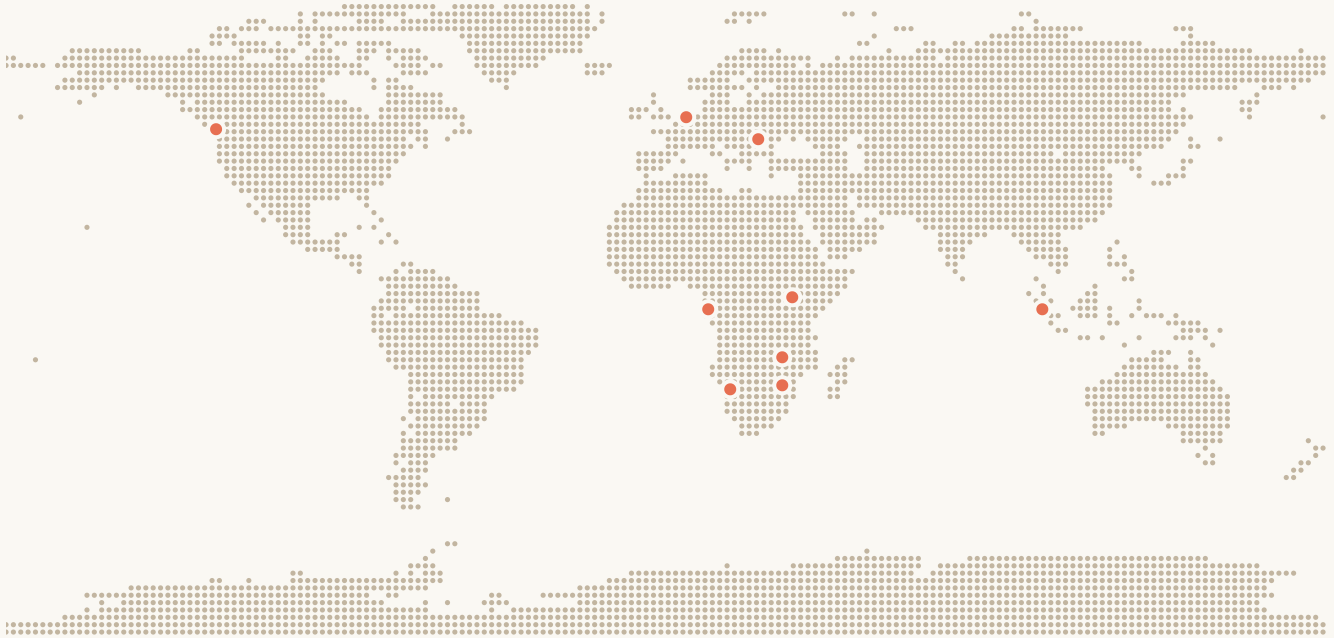
An AI-triggered, non-lethal deterrent that keeps wildlife — and the people sharing their landscape — out of harm's way.



[ WHERE WE WORK ]

# Field deployments worldwide

From mountain valleys in Romania to rainforests in Gabon and ranger stations in Zambia — our work runs wherever rangers, NGOs and communities need it.



ROMANIA

GABON

THE NETHERLANDS

ZIMBABWE

ZAMBIA

UGANDA

NAMIBIA

INDONESIA

CANADA

[ GET IN TOUCH ]

## Help us build technology that matters

Donations directly fund hardware, deployment and maintenance of our work in the field. If you're a ranger team, NGO, researcher or partner — we'd love to hear what you're working on.

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RSIN 868427202

Bank Triodos Bank

IBAN NL79 TRIO 0321 1304 05

Donations from NL are tax-deductible.