



PRODUCT OVERVIEW · 2026

Instant Detect

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

ABOUT HACK THE PLANET

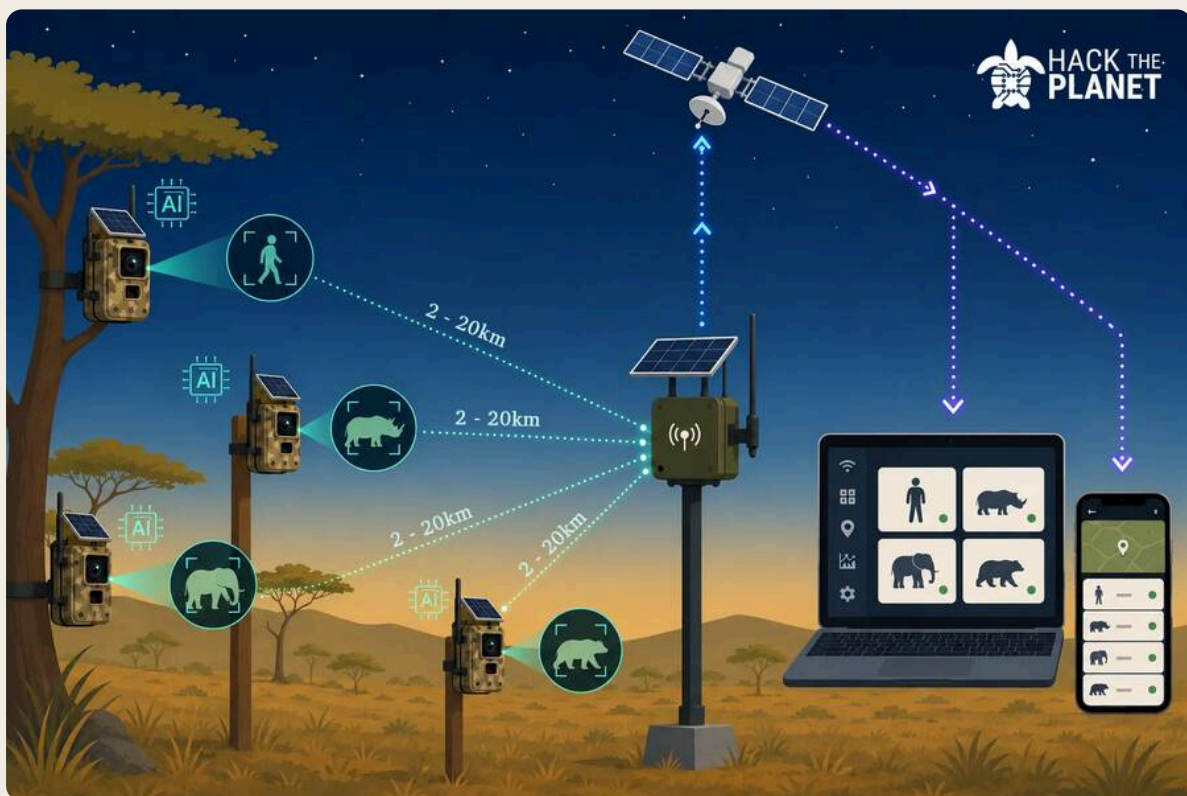
Tech for good across three pillars: wildlife conservation, social impact, and innovation. We're a non-profit foundation working alongside rangers, NGOs and communities worldwide.

THE PROBLEM

Conservationists deploy camera traps deep in the field, then come back weeks or months later to retrieve them — only to find equipment damaged, stolen, or filled with months of irrelevant images. By the time data reaches a researcher's laptop, the moment to act has already passed.

What it does

Instant Detect is a satellite-connected wildlife monitoring system. Cameras form a local LoRa network, with a single satellite-linked Base Station forwarding images to the cloud.



HOW IT WORKS

[CAPABILITIES]

Built for the unreachable

Cameras form a local network. A single Base Station relays everything to the cloud over satellite — even from places without a cell tower for hundreds of kilometres.

01

On-device AI

Each camera runs AI species recognition locally — identifying animals (or humans) in real time, on the device itself. Uniquely powerful and rare in this category.

02

Smart filtering

Tell the system which species you care about. Only get alerts for elephants, or only for human presence (anti-poaching) — instead of being buried under thousands of irrelevant frames.

03

Real-time imaging

Captures and transmits images in near-real-time, motion-triggered via built-in PIR detection.

04

Affordable satellite link

Iridium connectivity from the Base Station — works anywhere on the planet, including jungles, deserts and Antarctic regions.

05

Long-range LoRa network

Cameras talk to the Base Station over LoRa at distances of 2–20 km, depending on terrain — so only the Base Station needs satellite.

06

Solar-powered

Cameras run entirely on solar power — no more battery swaps, no maintenance field visits.

07

Cloud platform

Manage devices, view images and configure alerts from any browser via Instant Detect Cloud.

08

Rugged & low-maintenance

Dust- and waterproof, extreme-temperature tolerant, designed for months of unattended operation.

[WHAT SETS IT APART]

Why Instant Detect?

There are plenty of camera traps. Here's what sets Instant Detect apart.

01 Real-time images from anywhere in the world

Most monitoring systems depend on cell coverage, wifi or existing infrastructure. Instant Detect builds its own local LoRa network and relays via Iridium satellite from a single Base Station — so you get images in near-real-time from the most remote places on earth, even where no cell tower, wired connection or other network exists.

02 On-device AI, not server-side

Each camera identifies species in real time, on the unit itself. Combined with smart filtering, you stop drowning in irrelevant images and only see what you actually care about.

03 Built by conservationists for conservationists

Originally developed at the Zoological Society of London (ZSL) over 7 years with researchers and rangers. Every feature exists because someone in the field asked for it.

What you can use Instant Detect for

We built it for conservation, but the system works anywhere you need eyes-on-the-ground in the most remote places — without depending on any existing network.

Real-time biodiversity monitoring

Live species sightings stream from remote field sites straight to your dashboard — no SD-card swaps, no waiting for the next field visit.

Anti-poaching & human detection

Filter the AI on people only, and every camera becomes a silent watchman that alerts rangers the moment someone enters a protected zone.

Invasive species early-warning

Catch the first sightings of an invasive before it spreads — across borders, valleys or whole protected areas.

Population & behaviour studies

Long-term unattended monitoring of priority species in places no research team can visit often.

Habitat restoration & rewilding

Watch how wildlife returns to restored landscapes as it happens, with quantitative data behind every story.

Border & infrastructure monitoring

Beyond conservation — any remote site that needs reliable human-presence and motion alerts where no network reaches.

[FIELD DEPLOYMENTS]

Where Instant Detect is deployed

Instant Detect runs species-recognition AI on each camera, links them with a single satellite-connected Base Station, and gets the right image to rangers and researchers in near-real-time — even from rainforests, deserts and parks where no cell network reaches. Here's where it's deployed today.



2026 · ROMANIA

Real-time bear monitoring with WWF Romania

4G cameras with a two-stage AI pipeline that recognise brown bears in real time and push the detections straight into the Sensing Clues platform.

With WWF Romania · Sensing Clues



2026 · VANCOUVER, CANADA

Real-time wolf monitoring during denning season

AI cameras watching wolf families through denning season — giving ecologists data on the most sensitive time of year without ever entering the territory.

With Tsleil-Waututh Nation · Zoetica Environmental · FortisBC



2023 · CARPATHIAN MOUNTAINS, ROMANIA

Keeping brown bears out of mountain villages

15 AI cameras and 15 Smart Deterrents to keep brown bears out of mountain villages — without harming them.

With Foundation Conservation Carpathia

[FROM THE FIELD]

In the field



Bring Instant Detect to your conservation work

We work with parks, NGOs and research institutions to deploy Instant Detect where it can make the biggest difference. Tell us what you're trying to monitor.

Contact us

Support our work

Email info@hack-the-planet.io

Web 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.

Stichting Hack The Planet

Stationsplein 45, Unit A1.005
3013AK Rotterdam, Netherlands

Email info@hack-the-planet.io

Web hack-the-planet.io

LinkedIn [/company/foundation-hack-the-planet](https://www.linkedin.com/company/foundation-hack-the-planet)

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Donations from NL are tax-deductible.