

# TerraGuard - *Eyes in the Sky, Safety on the Ground*

## Overview

TerraGuard is an AI-powered autonomous drone system that secures large land areas from threats like wildfires, poaching, and theft. Our drones patrol on pre-set schedules, providing continuous surveillance and real-time AI detection, integrated seamlessly with existing CCTV systems.

## The Problem

In Georgia, wildfires have destroyed over **26,000 hectares of forest**, and illegal logging has claimed **314,000 cubic meters of wood**. Wildfires ravage **12M hectares globally each year**, with US losses up to **\$893B**. Elephant poaching **robs Africa of \$25M** in tourism. Poor surveillance fuels these crises, delaying wildfire response and enabling illegal acts.

## The Solution

TerraGuard's autonomous drone fleet provides continuous surveillance without the need for human pilots. Our drones patrol on pre-set schedules, detecting wildfires, logging, and intrusions in real-time. Integrated with CCTV systems, our solution sends instant alerts via web and mobile apps, complete with GPS, visuals, and event logs for immediate action.

## Market Opportunity

TerraGuard addresses over 168 million hectares of under-protected, high-risk land across Georgia, the Caucasus, and the EU. From fragmented farms to vast reserves and critical infrastructure, our AI-powered drone system delivers scalable, autonomous surveillance—filling a massive gap where conventional security systems fail to operate effectively or affordably.

## Customers

Our primary customers include: Agribusinesses, Large landowners and infrastructure operators, Government, private conservation agencies, Utility and energy companies.

## Competitors and Competitive Advantage

TerraGuard competes with companies like **AeroVironment**, **Percepto**, and **DJI**, which offer autonomous drone surveillance for industrial, agricultural, and environmental monitoring, focusing on large-area coverage and real-time threat detection. However, TerraGuard stands out with its AI-powered drones offering real-time multi-threat detection and seamless integration with **existing CCTV systems**. Its easily deployable **smart charging docks** and autonomous fleet management ensure continuous surveillance. TerraGuard provides scalable, customizable solutions with a robust ecosystem and flexible service plans, enhancing efficiency and reliability across industries.

## Our team

TerraGuard team, founded at Kutaisi International University, consists of students and engineers: Otar Khunashvili (CEO), Goga Jintcharadze (CTO), Petre Kharazashvili (CPO), Andria Beridze (AI Lead) and Dachi Khelashvili (Web Lead). We've participated in university hackathons and developed an AI-assistant for LMS platforms, combining expertise in UAVs, AI, and software development.

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