RAKUNO GAKUEN UNIVERSITY
酪農学園大学

DeterCam

DeterCam Case Study

Rakuno Gakuen University

Target: Brown bear and Asian black bear Deterrence

Project Overview

DeterCam cameras were deployed in brown bear risk areas in Takinoue Town, Hokkaido as part of a joint field research project in collaboration with Rakuno Gakuen University and local stakeholders.

Challenge

Brown bears entering agricultural areas (dent corn) can cause crop damage and create safety concerns for farmers and local communities. There is growing demand for non-lethal approaches that can support wildlife monitoring and management.

Solution / Deployment

23 DeterCamAI cameras were installed around dent corn fields to detect approaching brown bears and automatically activate non-contact deterrence stimuli while recording wildlife events.

Objective

The project evaluates brown bear detection and behavioral responses to AI-triggered non-lethal deterrence under real field conditions.

Key Findings / Observations

The deployed DeterCam units have detected and deterred both brown bears and Asian black bears, recording over **950 deterrence events** within three months, averaging approximately **10 events per day**. The reported deterrence **success rate exceeds 99%**.

The cameras have captured field data on detection events and behavioural responses following deterrence activation. Monitoring continues to assess response patterns over repeated encounters.

DeterCam Milestones

670+
Deer Deterred

340+
Asian Black Bear

290+
Brown Bear

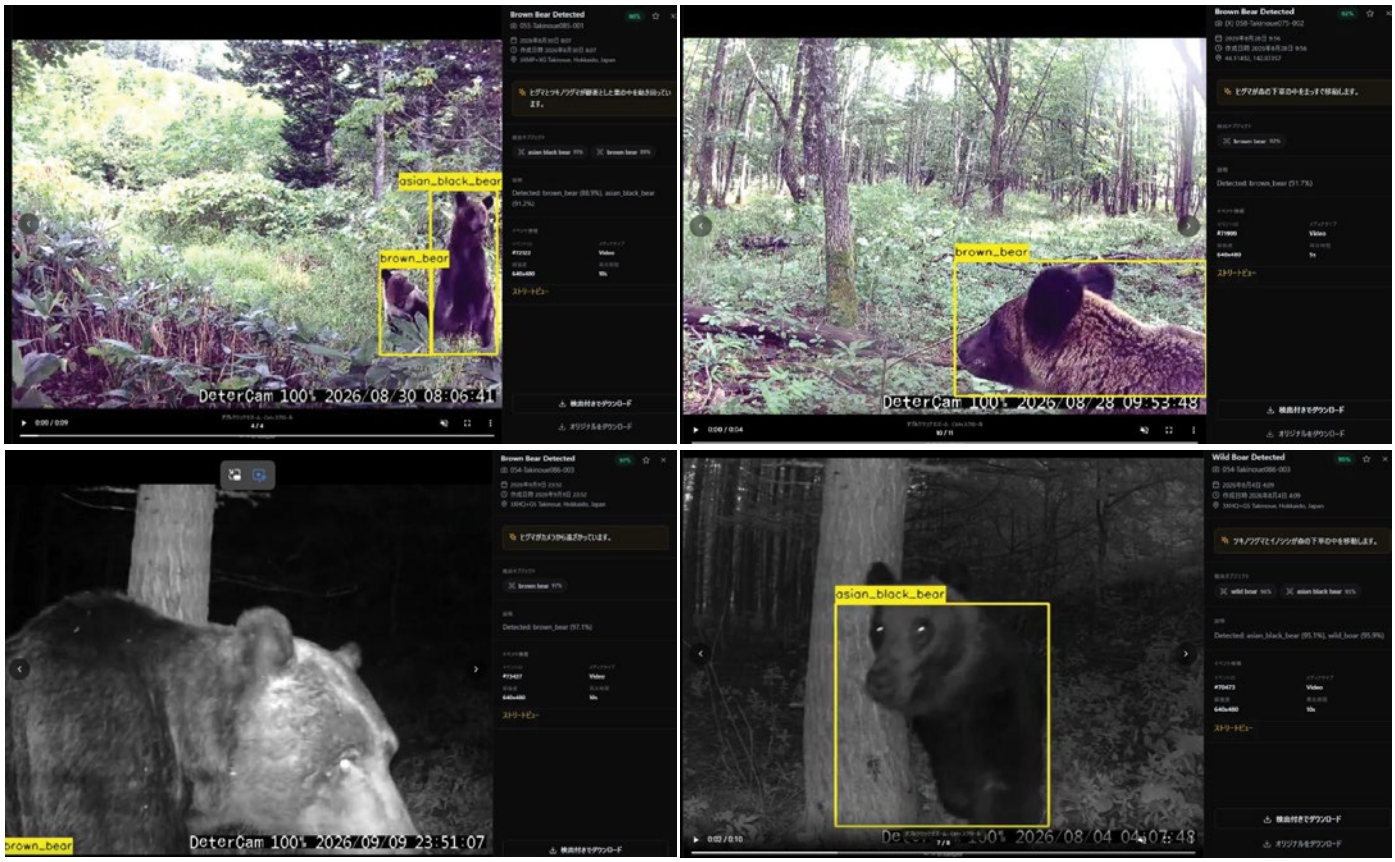
** Figures from August 2026 to October 11, 2026**

Going Forward

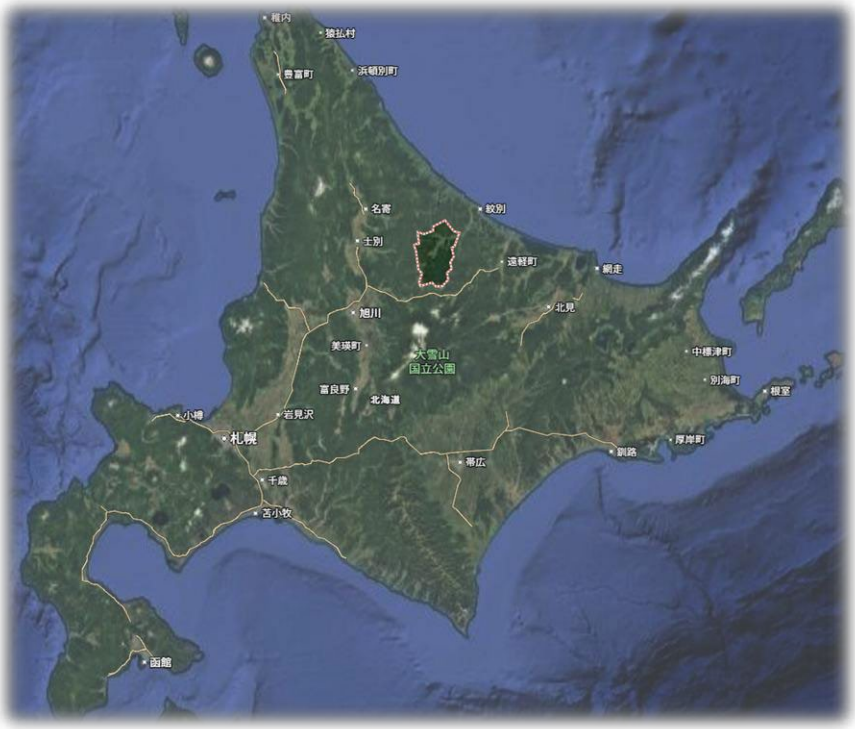
All DeterCam units will be removed around mid-October, following the completion of the dent corn harvest. Rakuno Gakuen University will then analyze the collected data and submit a final report by the end of March 2027.

Takinoe Town will consider whether to continue deploying DeterCam units and offline versions at identified wildlife hotspots. The Town will also consider the potential adoption of DeterCam following the submission of the final report.

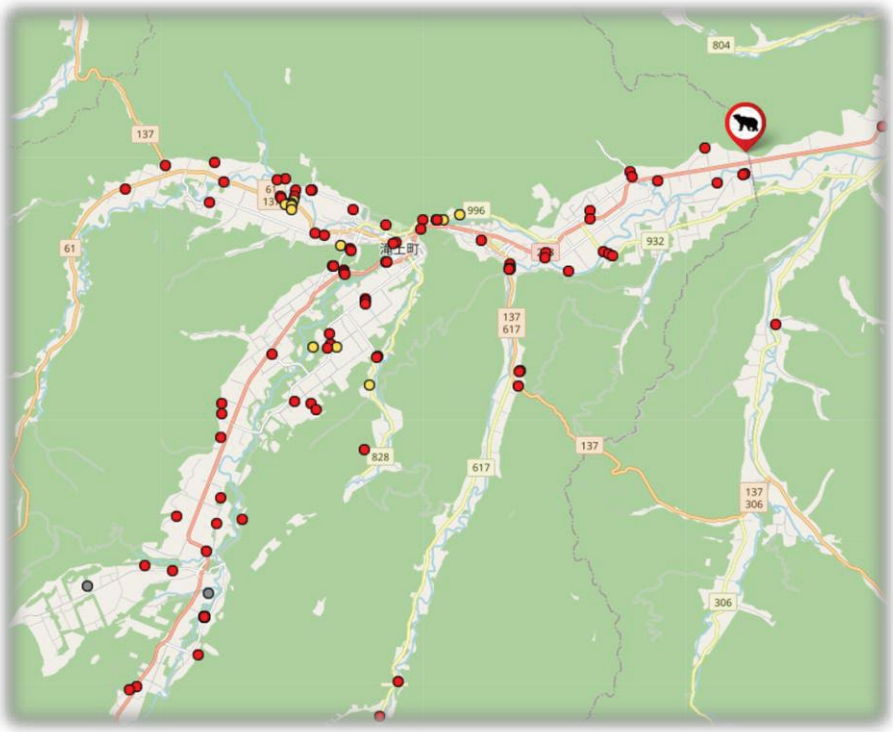
Rakuno Gakuen University



Demonstration Site



Location of Takinoue Town



Bear Sighting Map

Deployed by Leading Organisations

Iarnród Éireann Irish Rail

LNER
LONDON NORTH EASTERN RAILWAY

NetworkRail

TRANSPORT FOR LONDON

BRITISH TRANSPORT POLICE

HITACHI
Inspire the Next

Department for Transport

Keolis Amey
DOCKLANDS

DLR

SNCF

ascendi

قطارات الاتحاد
Etihad Rail