

## CAMBIO™ LANDSLIDE MOVEMENT MAPPING



## Move from Raw Lidar Change Data to Actionable Landslide Intelligence

Cambio™ Landslide Movement Mapping is an AI-enabled service that automatically identifies landslide-related ground movement with two lidar datasets. It generates high-resolution landslide polygons in hours instead of weeks or months of manual review.



Instead of scanning LCD datasets manually, teams receive a rapid, defensible starter inventory of likely active landslides — ready for validation, prioritization, and action.

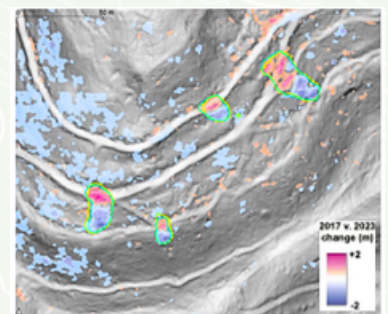
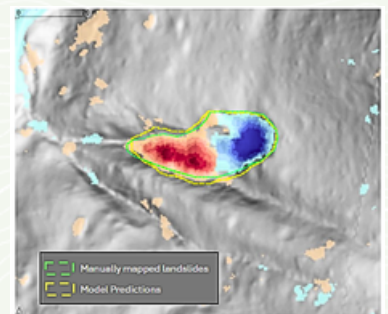
## FROM CHANGE SURFACES TO MAPPED LANDSLIDES

Lidar Change Detection (LCD) reveals where the ground has moved. Landslide Movement Mapping identifies which of those changes are consistent with landslide activity.

It applies a deep learning–based semantic segmentation model to lidar-derived terrain data and change products.

- Detection of landslide-consistent movement signatures tuned for subtle surface expression in complex or vegetated terrain
- Pixel-level classification to generate polygons with confidence attributes

The model was trained on 8,000+ manually mapped landslides from real LCD datasets, representing one of the most comprehensive active landslide inventories assembled for this purpose.



## REGIONAL & CORRIDOR- SCALE SCREENING

**Generate a rapid starter inventory** of active landslides across long corridors or large areas

**Augment or update inventories** of known landslides

**Standardize landslide screening** across regions and programs

**Reduce manual LCD review time** across large or remote terrain

## POST-EVENT & TARGETED INVESTIGATION

**Screen for landslide activation** following extreme rainfall or earthquake triggering events

**Prioritize slopes for field inspection** when time or budgets are constrained

**Identify new or expanding landslide features** not previously mapped

**Support risk ranking** and mitigation planning

## DELIVERABLES DESIGNED FOR OPERATIONS

Results can be delivered as standalone GIS layers or integrated into Cambio to support inspection planning and risk updates.

High-Resolution  
Landslide Polygons  
Visualized in Cambio

GIS-Ready Landslide  
Layers for Integration  
into Existing Systems

Probability-Based  
Outputs to Support  
Prioritization

### Why teams choose Cambio Landslide Movement Mapping

Massive Reduction in  
Manual Review

Consistent  
Performance

Domain-Grounded  
AI

**Earth science intelligence for building  
and operating resilient infrastructure**

