GroundTruth AI - Public Validation Summary

Non-confidential validation discipline for leakage-controlled geospatial decision intelligence.

Purpose

This public validation summary explains how GroundTruth AI is positioned methodologically without disclosing confidential model details, sensitive coordinates or patent claims. It is designed for investors, competition reviewers and potential pilot partners.

Validation principle

The central validation principle is simple: a geospatial model should be evaluated on places it has not implicitly memorized. This means avoiding random spatial splits that allow nearby or related locations to leak across training and evaluation sets.

Controls used in the methodology

• Spatial separation between training and evaluation areas.

• Coordinate leakage audits to test whether location alone explains model behavior.

• Hard-negative examples such as quarries, terraces, construction sites and confusing landscape features.

• Evidence-layer review rather than black-box score presentation.

• Human expert review before any field or operational decision.

Public evidence package

The public evidence package should include: method description, validation boundary, sample output, pilot protocol, risk management and a clear distinction between prioritization and proof.

Disclosure boundary

Public materials should not include exact sensitive coordinates, source datasets that cannot be shared, reconstructable model code, patent claim language, private partner data or unverified performance claims.

How to replace synthetic evidence

• Run a partner-approved pilot on a defined geography.

• Freeze the evaluation protocol before reviewing results.

- Record the exact validation boundary and field confirmation method.
- Replace demo values with audited pilot metrics.
- Keep confidence intervals, false-positive review and failure cases visible.