

ENVIRONMENTAL SCREENING

Open-Pit Mining Intelligence

Candidate mine and quarry evidence for local review

XSensee screens territories for potential open-pit mines and quarries, providing spatial evidence to support registry checks and environmental investigations.

Candidate screening

Locations for comparison with registries

Surrounding land context

Access and land use around potential sites

Follow-up evidence

Dated observations for local assessment

Service example



1 m optical output for local context

Mine and quarry screening

Authorities and land managers need to compare potential excavation sites with registries and identify where closer review is useful.

Who uses the evidence

Environmental and planning teams

Territorial screening and local investigations

Land and resource authorities

Registry comparison and site context

Engineering and consulting teams

Evidence for site assessment studies

Satellite analysis workflow

01

Area of interest

Territory and client question

02

Valid data

Suitable dates and source data

03

Service analysis

Application maps and estimates

04

Local review

Comparison with client records

Which potential excavation sites need a registry check or a closer environmental assessment?

What it supports

Candidate screening

Locations for comparison with registries

Surrounding land context

Access and land use around potential sites

Follow-up evidence

Dated observations for local assessment

1 m optical detail at lower cost

XSensee reconstructs Sentinel-2 imagery on a 1 m output grid, helping teams examine local context with a lower-cost optical baseline.

Sentinel-2 RGB input



XSensee super-resolution



1 m output

Reconstructed optical imagery for local review.

Proprietary 10× algorithm

More visual detail from Sentinel-2 imagery.

Lower-cost baseline

Optical context for territorial screening.

Measurement scale

Thermal, water and carbon retain their source scale.

Same reference scene. The 1 m output is a reconstruction of optical imagery.

Mine candidates and surrounding land

Candidate outlines provide a territorial reference for reviewing potential mines and quarries alongside trusted local records.

Potential site outlines

Map candidate excavation areas in the selected territory.

Registry comparison

Identify candidates that merit a check against authorised site records.

Context and observations

Review surrounding land and visible changes when comparable dates are available.

Candidate mine and quarry outlines



Local assessment confirms site identity and status. Candidate screening does not establish reserves, extracted volumes or regulatory compliance.

Applications and local follow-up

The same service evidence supports different client decisions. Local records and field assessments complete the investigation.

Candidate and registry review

Compare mapped outlines with official records to select sites for local confirmation.

Environmental follow-up

Use site context and valid dated observations to frame the next field assessment.

Satellite evidence supports the local investigation and the decision on follow-up.

Local assessment confirms site identity and status. Candidate screening does not establish reserves, extracted volumes or regulatory compliance.

A pilot on your territory

The pilot starts with a defined client question. Its scope reflects the territory, available data and the decision your team needs to make.

Pilot scope

Territory and registries

Select the area and identify available mine, quarry and land use records.

Evidence and inputs

Candidates and observation period

Agree review criteria and comparable dates for the assessment.

Deliverables and review

Maps and local follow-up

Review candidate sites and decide where confirmation or a field study is needed.

A shared review of the evidence defines the next local checks and the scope of any further work.

A pilot for your next territorial decision

Tell us the area you need to assess and the decision the evidence should support.

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Open-Pit Mining Intelligence



[Explore XSensee](#)



[Watch satellite analysis](#)

Explore the platform and watch the demonstration.