

Infrastructure Monitoring

Remote evidence for high-voltage corridor inspections

XSensee helps infrastructure teams review vegetation and surrounding land along high-voltage corridors, with mapped stretches that focus local inspections.

Service example



1 m optical output for local context

Route context

Review vegetation and nearby land use

Priority stretches

Focus field checks along a corridor

Repeat observations

Compare valid evidence across dates

Corridor monitoring and inspection

Long infrastructure corridors need a repeatable geographic view of stretches that may deserve an engineering or vegetation assessment.

Who uses the evidence

Electricity network operators

Inspection planning along transmission routes

Maintenance and vegetation teams

Local assessment of priority stretches

Engineering and asset partners

Evidence for corridor management 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 corridor stretches should enter the next vegetation and engineering inspection?

What it supports

Route context

Review vegetation and nearby land use

Priority stretches

Focus field checks along a corridor

Repeat observations

Compare valid evidence across dates

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.

A corridor view of inspection priorities

Green, yellow and red stretches communicate different review priorities along the same route.

Corridor context

Connect route geometry with vegetation and surrounding land.

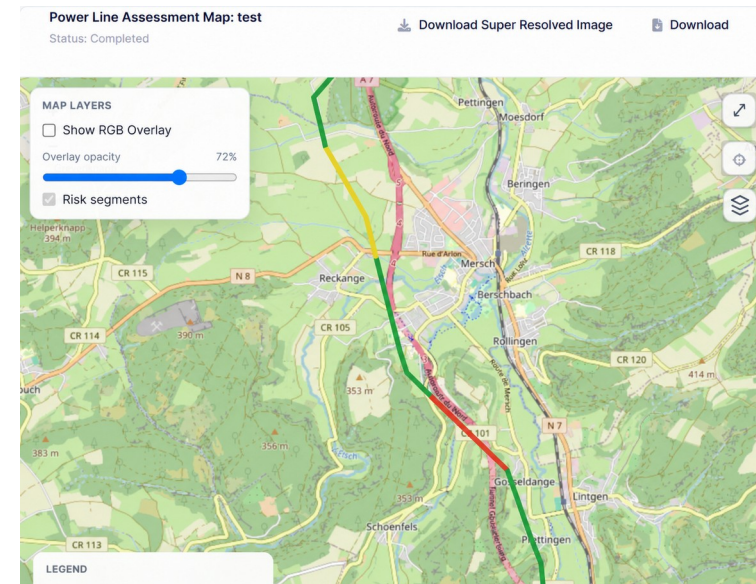
Mapped priorities

Highlight stretches for routine review, attention and priority inspection.

Follow-up evidence

Retain dated observations to support local investigation and maintenance planning.

High-voltage corridor with priority stretches



The colour coding shows a prioritisation example. Field engineering confirms clearance, risk and the maintenance action.

Applications and local follow-up

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

Vegetation assessment

Use yellow stretches to plan a closer review of vegetation and the corridor's local constraints.

Priority inspection

Use red stretches to focus engineering checks before deciding on the appropriate maintenance response.

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

The colour coding shows a prioritisation example. Field engineering confirms clearance, risk and the maintenance action.

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

Route and corridor limits

Select the asset route and define the corridor area with your team.

Evidence and inputs

Records and review criteria

Agree vegetation concerns, inspection records and suitable observation dates.

Deliverables and review

Priority map and review

Assess highlighted stretches and agree the next local checks.

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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Infrastructure Monitoring



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[Watch satellite analysis](#)

Explore the platform and watch the demonstration.