Terrain Intelligence Report

Quinta da Águia

Portugal

Remote terrain analysis for land buyers

AQUILA

REMOTE TERRAIN ANALYSIS USING LIDAR AND SATELLITE DATA • NO SITE VISIT REQUIRED

What's Included
in Your Report

Terrain Pack (€100)

- PDF Report
- Terrain visualisation
- Contour mapping
- Slope analysis
- Solar aspect analysis
- Historical wildfire map
- Full-resolution maps and 3D images

Ideal for buyers who want a clear understanding of the property's terrain before purchase.

— INCLUDED IN —
Terrain Pack (€100)

Land Insight (€200)

Everything in Terrain Pack, plus:

- Flow accumulation analysis
- Annotated 3D terrain visualisations
- Property observations
- Executive summary and conclusions
- Practical recommendations
- Full-resolution maps and 3D images

Ideal for buyers seeking a deeper understanding of how the land functions and the opportunities it may offer.

— INCLUDED IN —
Land Insight (€200)

Land Vision (€300)

Everything in Land Insight, plus:

- Narrated video flyover
- Terrain interpretation and commentary
- Water harvesting opportunities
- Cultivation and development observations
- Access and infrastructure observations
- Wildfire resilience observations
- Prioritised recommendations

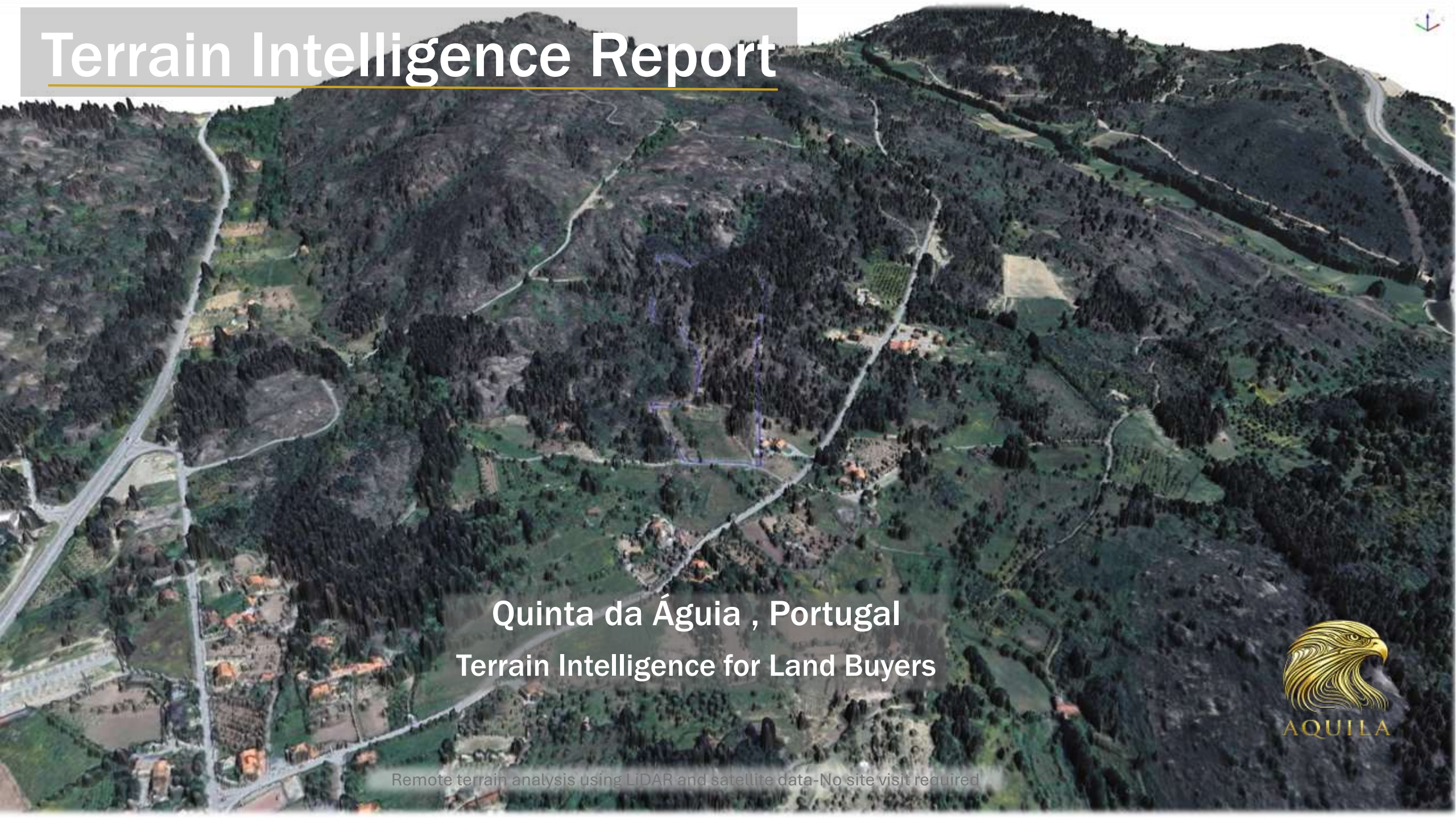
Designed for buyers who want practical guidance on how the property could be managed, developed or improved.

— INCLUDED IN —
Land Vision (€300)

EVERY PACKAGE INCLUDES

- PDF report
- Full-resolution maps and 3D visualisations
- Digital delivery
- Remote terrain analysis using LiDAR and satellite data
- No site visit required

Terrain Intelligence Report



Quinta da Águia , Portugal

Terrain Intelligence for Land Buyers

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Remote terrain analysis using LiDAR and satellite data-No site visit required

Quinta da Águia, Portugal

Terrain Intelligence Summary

Terrain

Steep to moderate slopes with mixed woodland and agricultural land

Access

Road access through the valley and upper slopes

Solar Exposure

Predominantly south and southwest-facing terrain

Water

Natural drainage corridors shape the landscape

Opportunities

Strong opportunities for productive land use and long-term resilience

Executive Summary

Quinta da Águia is characterised by a diverse and dynamic landscape of wooded slopes, agricultural land, and interconnected valleys. Terrain intelligence analysis highlights how elevation, slope, solar exposure, access routes, and natural drainage patterns shape both the opportunities and constraints of the property. By revealing how the landscape functions as a system, this assessment provides a foundation for informed decision-making, helping landowners identify potential, reduce uncertainty, and plan with greater confidence.

Remote terrain analysis using LiDAR and satellite data-No site visit required

Terrain Visualisation

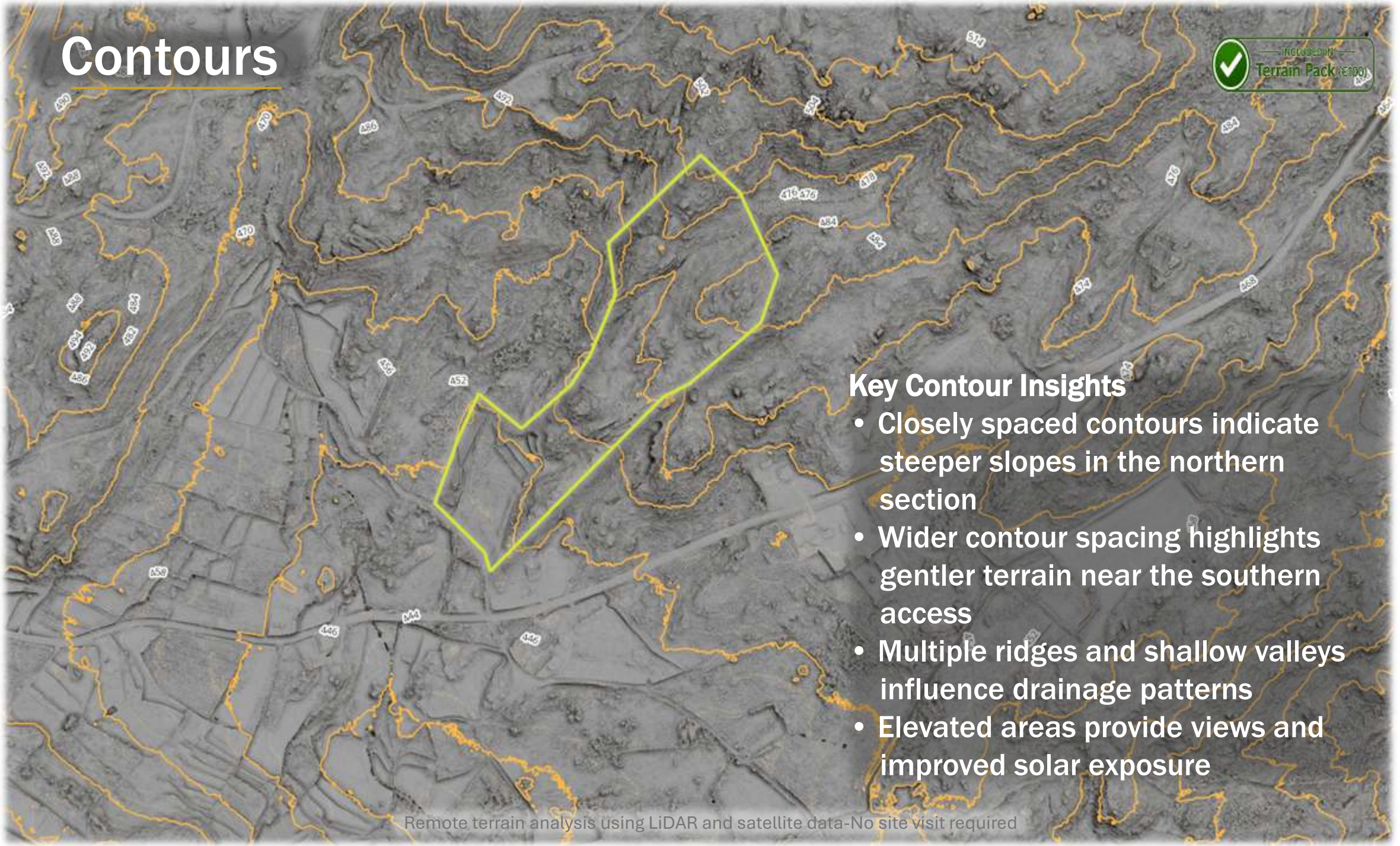
Included in Terrain Pack (£100)

Key Terrain Insights

- Elevated south-west facing position with favourable solar exposure
- Direct road access along the southern boundary provides straightforward site entry
- Distinct ridge and valley structure influences movement of water across the landscape
- A combination of elevated ground, sheltered valleys and transitional slopes creates a varied terrain character across the property

Remote terrain analysis using LiDAR and satellite data-No site visit required

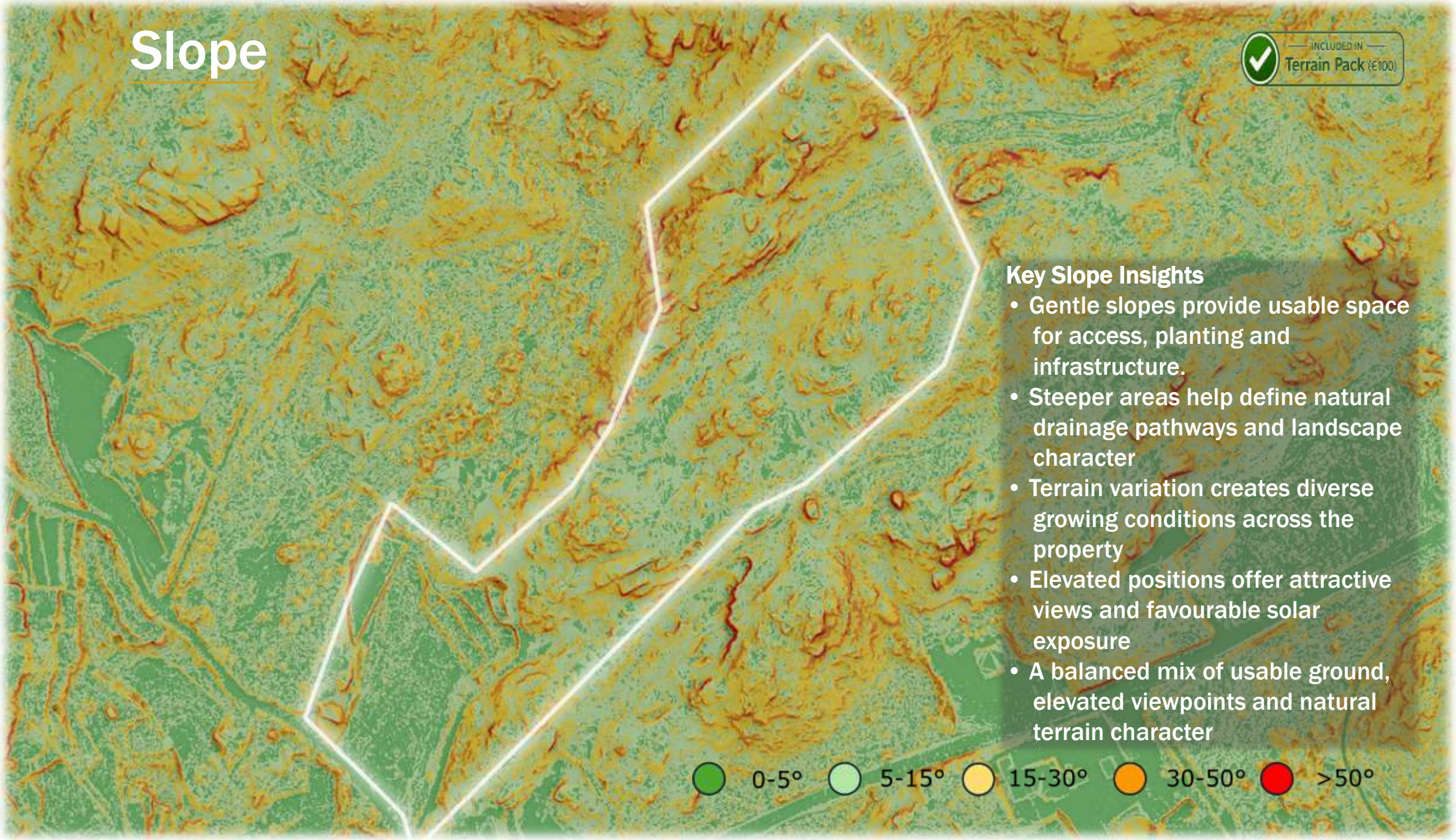
Contours



Remote terrain analysis using LiDAR and satellite data-No site visit required

Slope

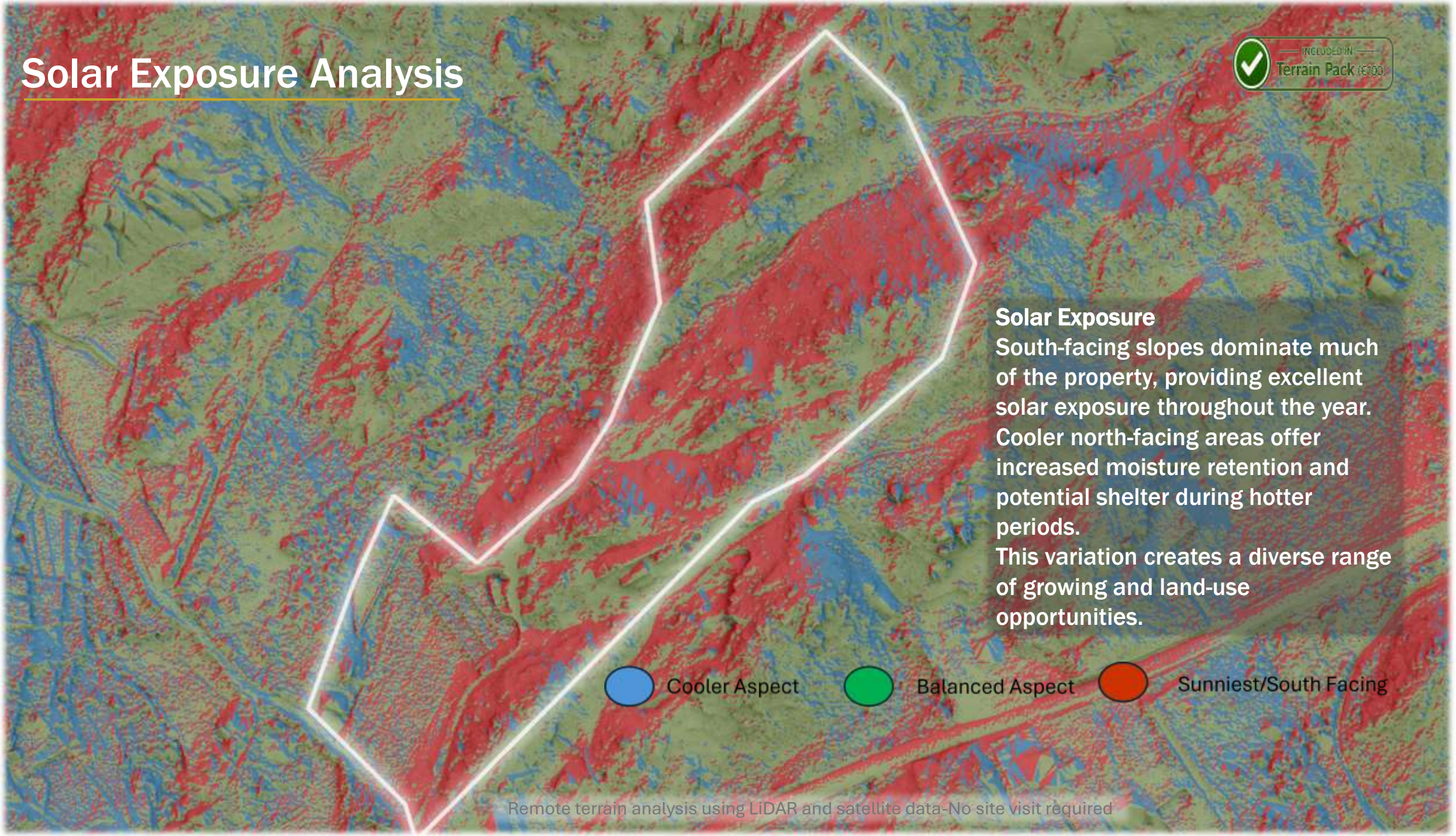
INCLUDED IN Terrain Pack (€100)



Key Slope Insights

- Gentle slopes provide usable space for access, planting and infrastructure.
- Steeper areas help define natural drainage pathways and landscape character
- Terrain variation creates diverse growing conditions across the property
- Elevated positions offer attractive views and favourable solar exposure
- A balanced mix of usable ground, elevated viewpoints and natural terrain character

Solar Exposure Analysis



Wildfire Context

(ICNF Map overlay)

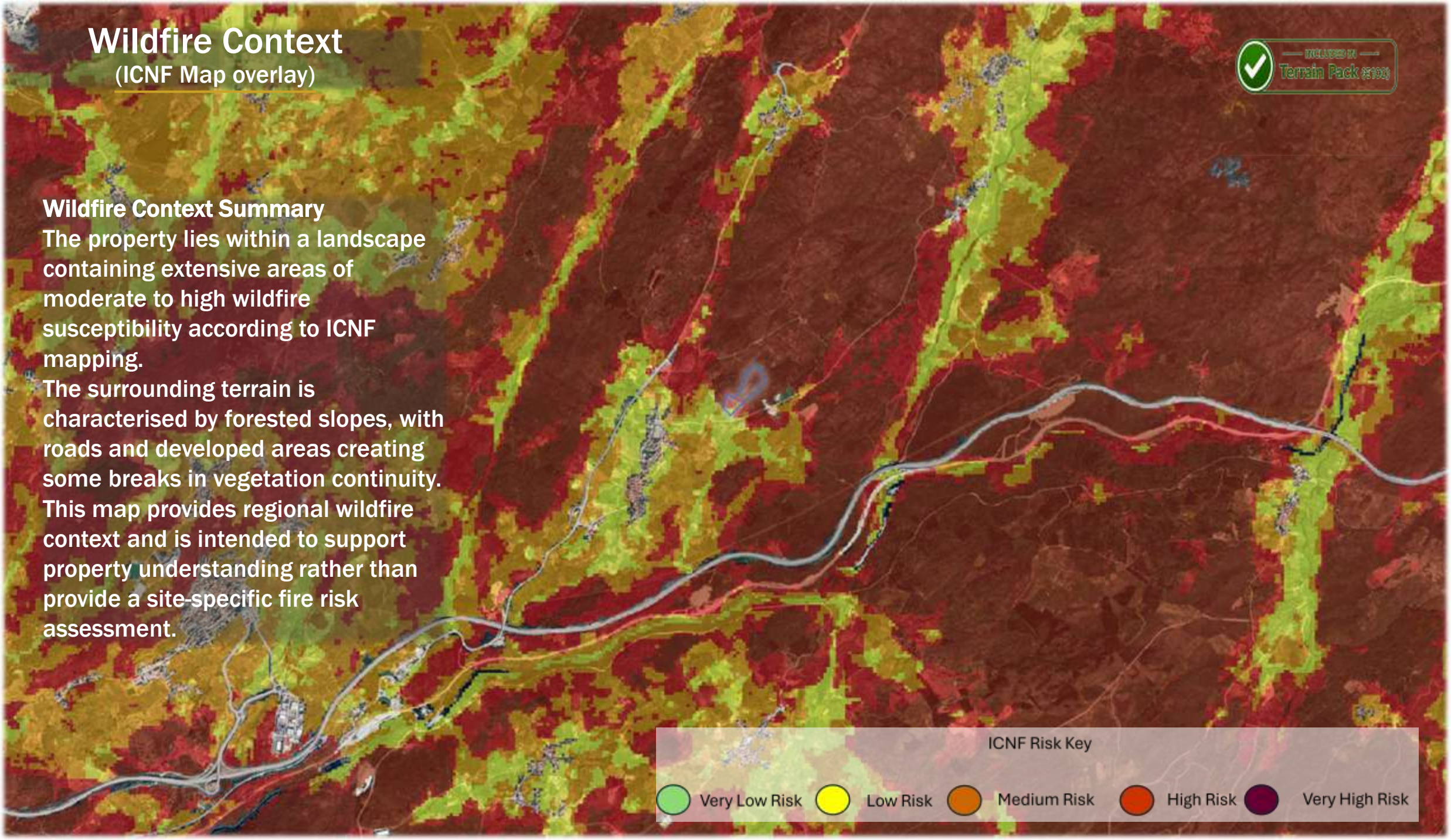
Included in Terrain Pack ($100)

Wildfire Context Summary

The property lies within a landscape containing extensive areas of moderate to high wildfire susceptibility according to ICNF mapping.

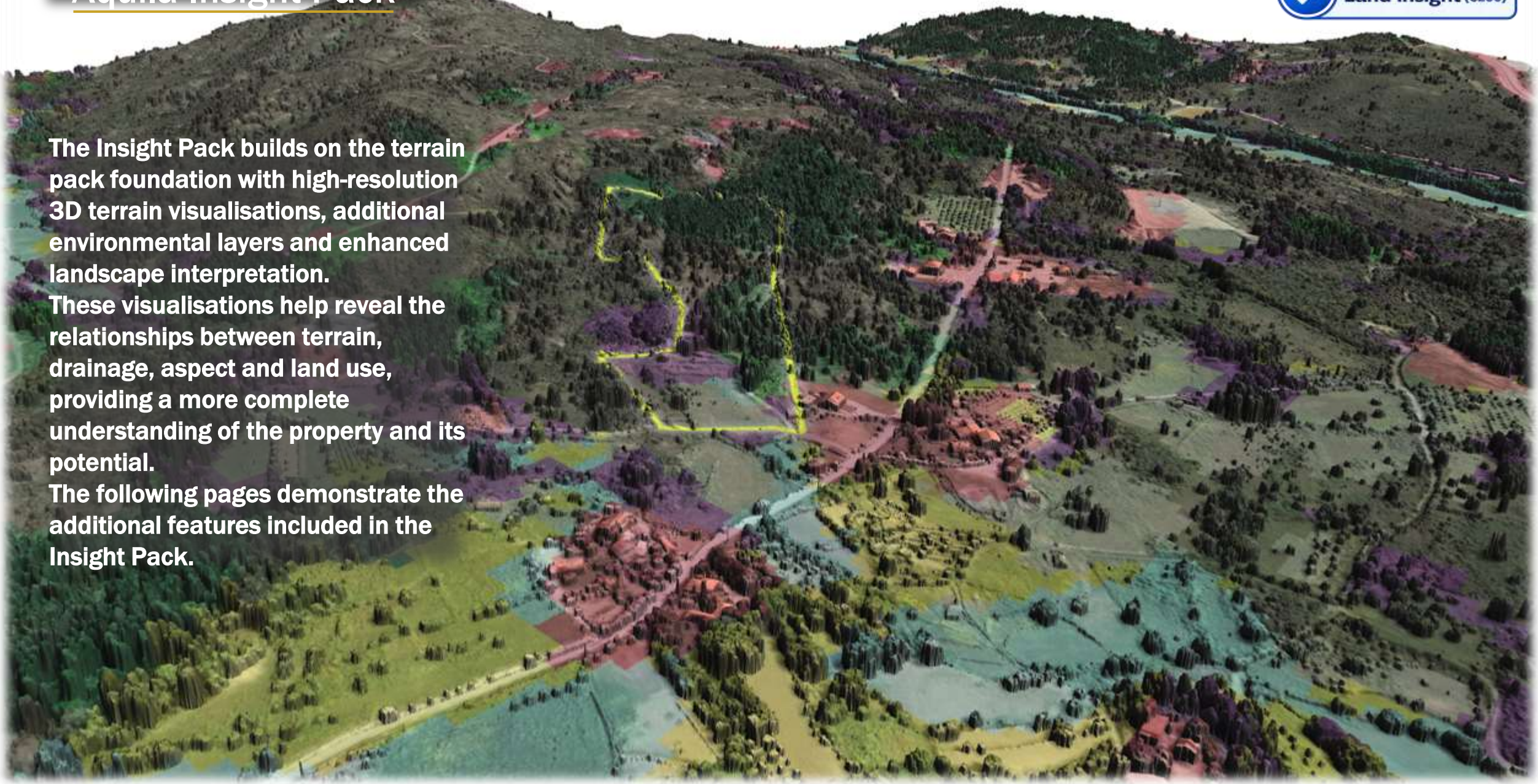
The surrounding terrain is characterised by forested slopes, with roads and developed areas creating some breaks in vegetation continuity.

This map provides regional wildfire context and is intended to support property understanding rather than provide a site-specific fire risk assessment.



Aquila Insight Pack

INCLUDED IN
Land Insight (€200)



The Insight Pack builds on the terrain pack foundation with high-resolution 3D terrain visualisations, additional environmental layers and enhanced landscape interpretation.

These visualisations help reveal the relationships between terrain, drainage, aspect and land use, providing a more complete understanding of the property and its potential.

The following pages demonstrate the additional features included in the Insight Pack.

3D Terrain Visualisation

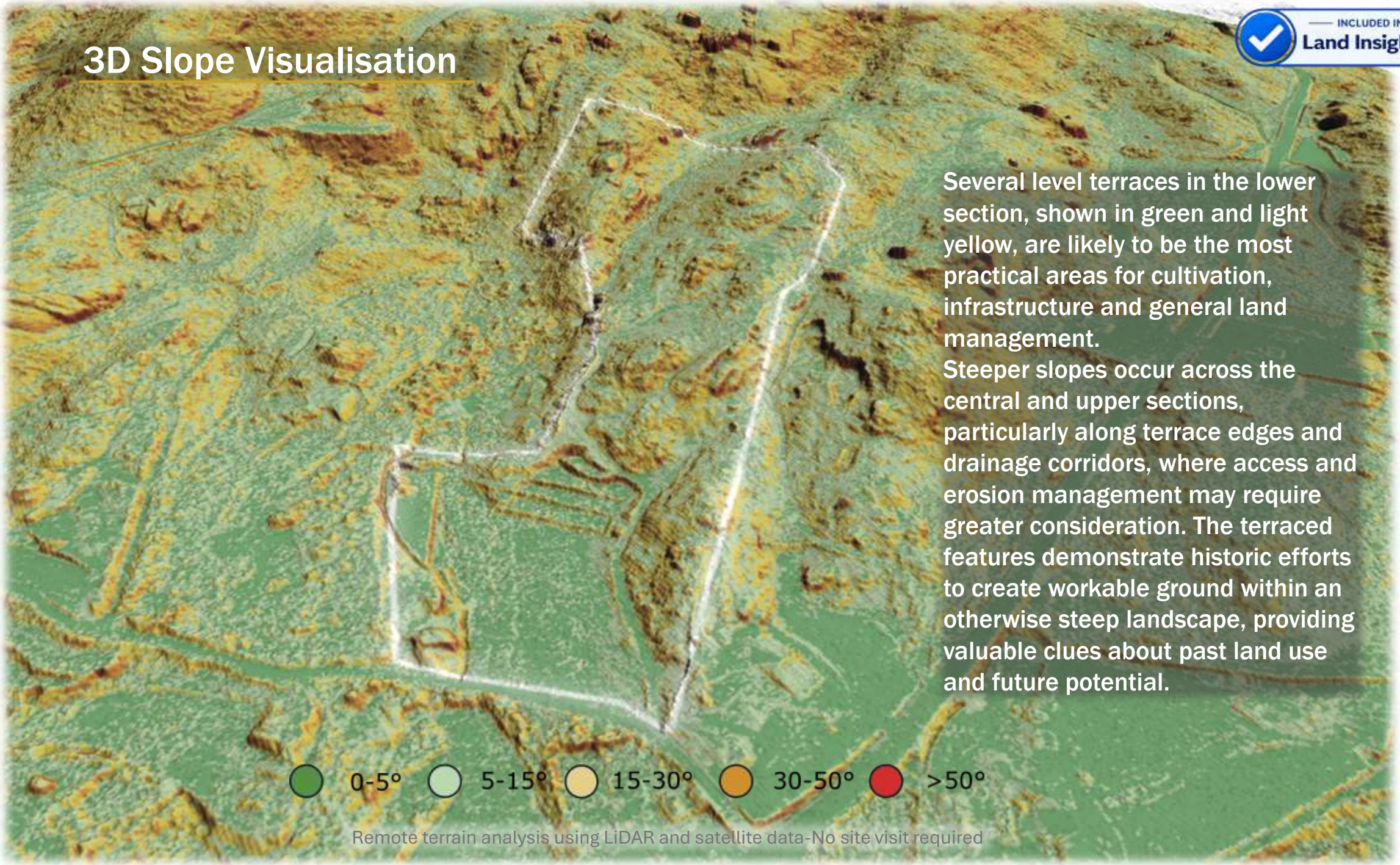
INCLUDED IN
Land Insight (€200)

The 3D terrain model highlights the relationship between slope, access and drainage. Historic terracing is concentrated on the central and lower slopes where gradients are less severe. Steeper upper slopes remain largely unmanaged and exhibit more pronounced erosional features and drainage pathways.

Remote terrain analysis using LiDAR and satellite data-No site visit required

3D Slope Visualisation

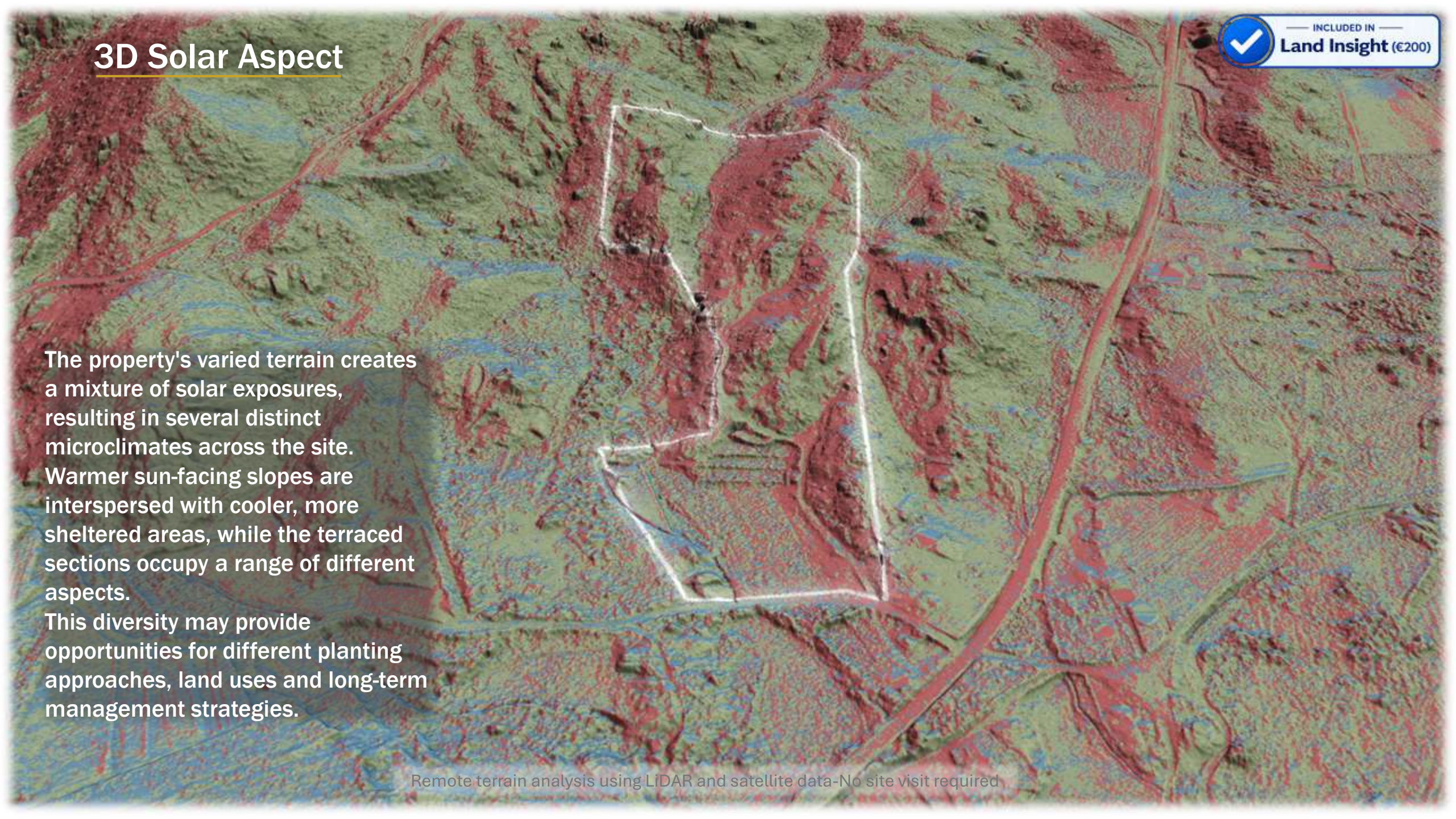
INCLUDED IN Land Insight (€200)



Several level terraces in the lower section, shown in green and light yellow, are likely to be the most practical areas for cultivation, infrastructure and general land management.
Steeper slopes occur across the central and upper sections, particularly along terrace edges and drainage corridors, where access and erosion management may require greater consideration. The terraced features demonstrate historic efforts to create workable ground within an otherwise steep landscape, providing valuable clues about past land use and future potential.

Remote terrain analysis using LiDAR and satellite data-No site visit required

3D Solar Aspect



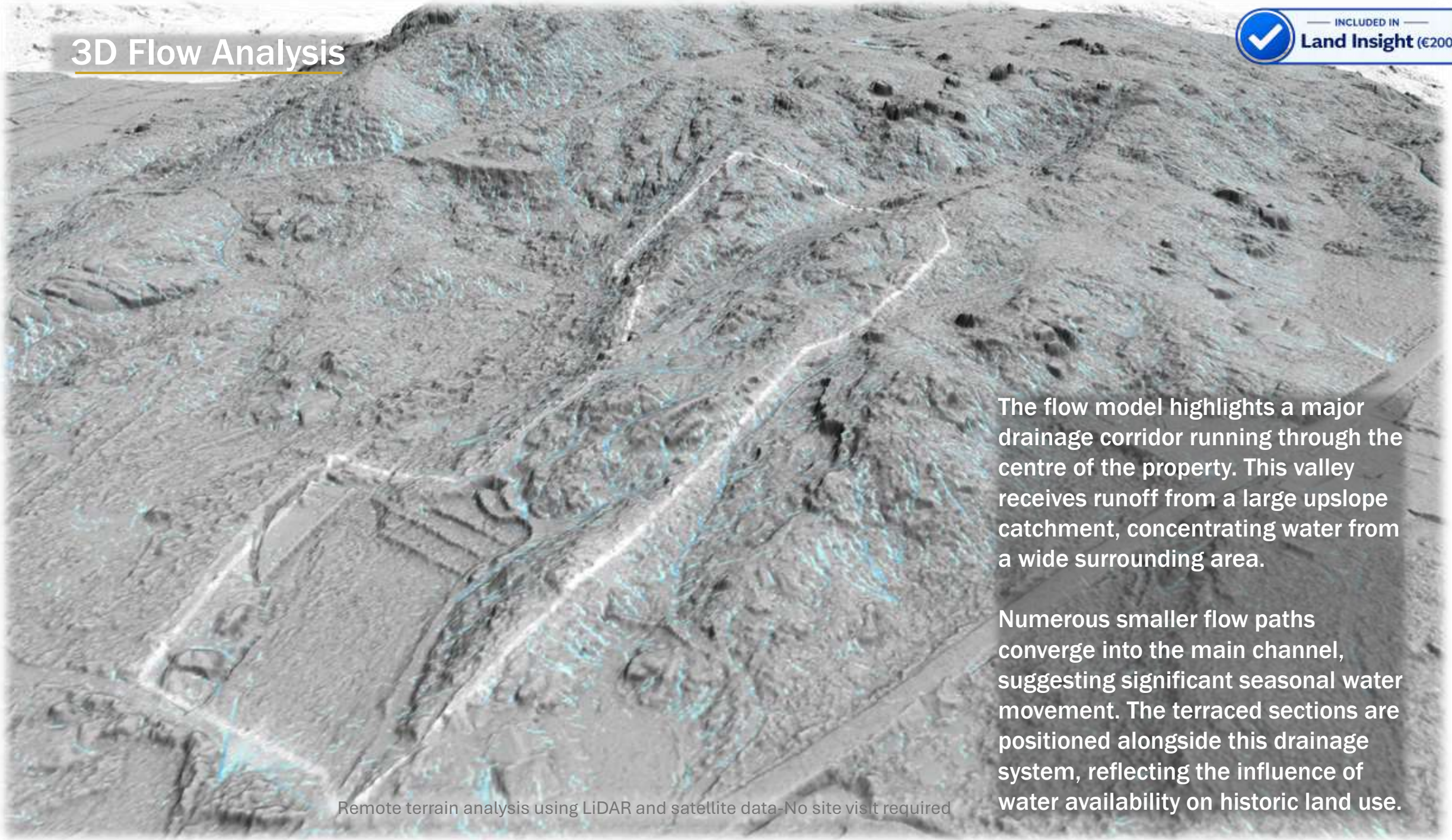
INCLUDED IN Land Insight (€200)

The property's varied terrain creates a mixture of solar exposures, resulting in several distinct microclimates across the site. Warmer sun-facing slopes are interspersed with cooler, more sheltered areas, while the terraced sections occupy a range of different aspects.
This diversity may provide opportunities for different planting approaches, land uses and long-term management strategies.

Remote terrain analysis using LiDAR and satellite data-No site visit required

3D Flow Analysis

INCLUDED IN Land Insight (€200)



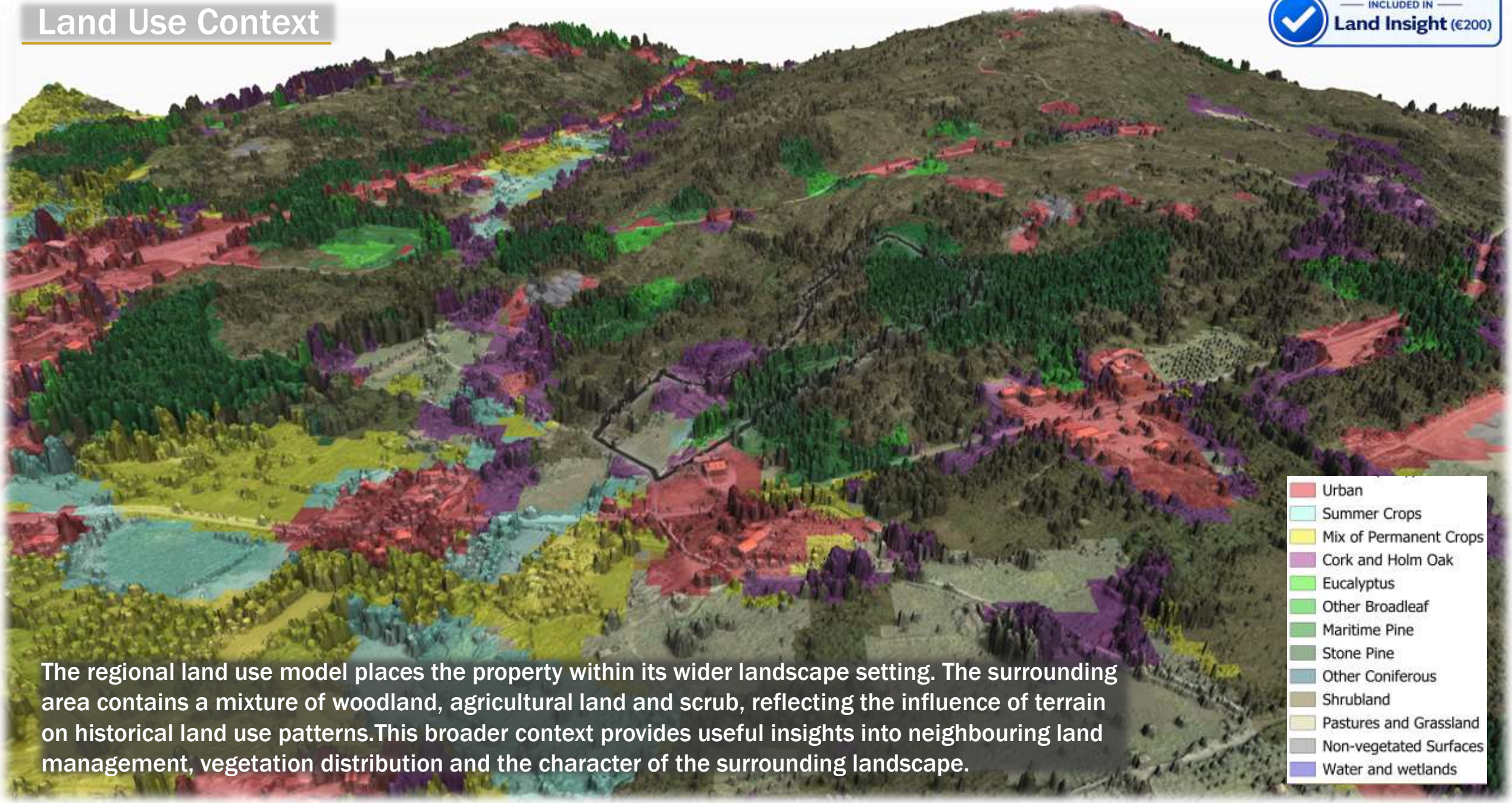
The flow model highlights a major drainage corridor running through the centre of the property. This valley receives runoff from a large upslope catchment, concentrating water from a wide surrounding area.

Numerous smaller flow paths converge into the main channel, suggesting significant seasonal water movement. The terraced sections are positioned alongside this drainage system, reflecting the influence of water availability on historic land use.

Remote terrain analysis using LiDAR and satellite data-No site visit required

Land Use Context

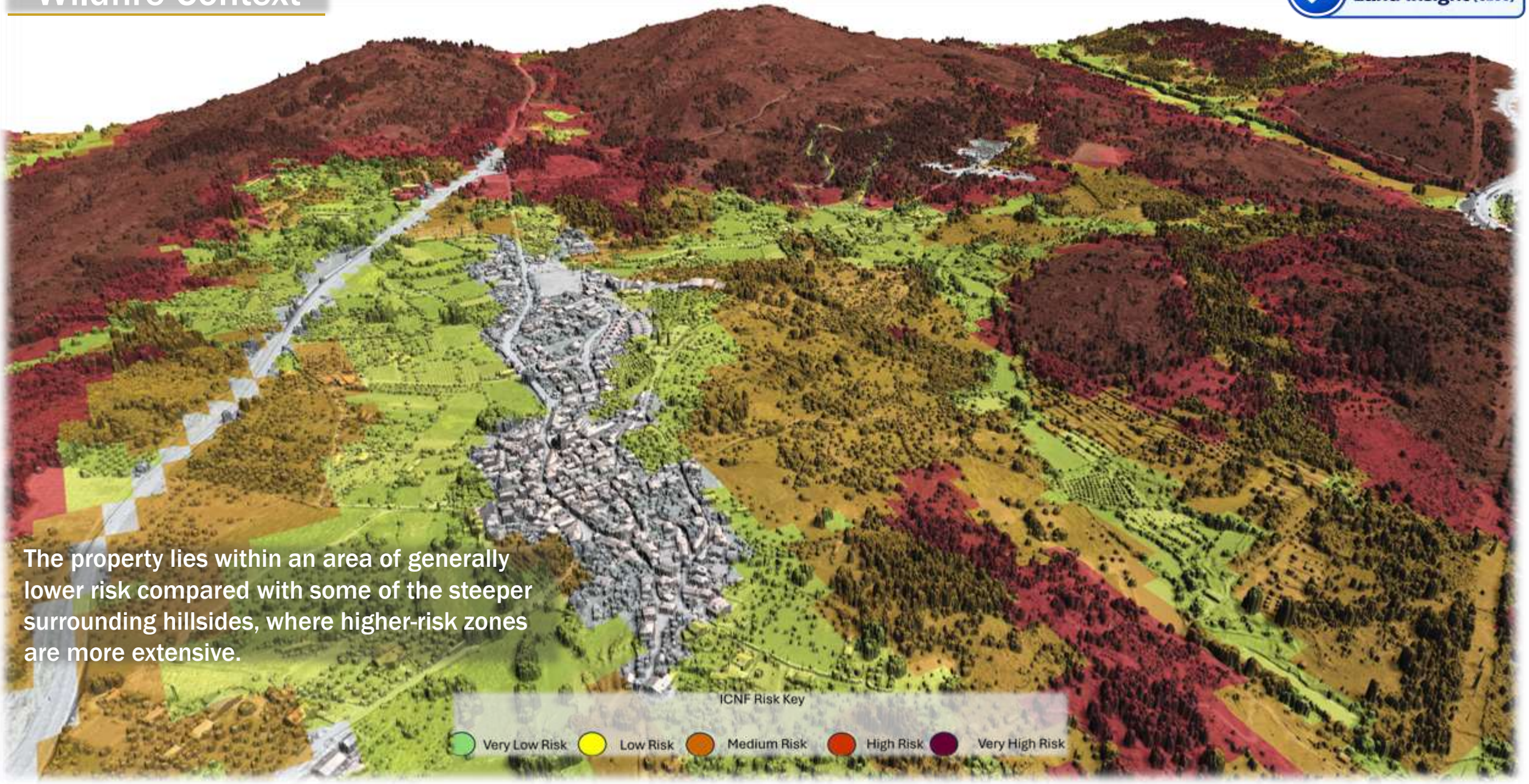
INCLUDED IN Land Insight (€200)



The regional land use model places the property within its wider landscape setting. The surrounding area contains a mixture of woodland, agricultural land and scrub, reflecting the influence of terrain on historical land use patterns.This broader context provides useful insights into neighbouring land management, vegetation distribution and the character of the surrounding landscape.

Wildfire Context

INCLUDED IN Land Insight (€200)



The property lies within an area of generally lower risk compared with some of the steeper surrounding hillsides, where higher-risk zones are more extensive.

Key Findings

INCLUDED IN Land Insight (€200)

The analysis indicates that the property combines several favourable landscape characteristics within a relatively compact area. Existing terraces provide workable ground on an otherwise steep hillside, while a substantial upslope catchment feeds a central drainage corridor that may support water harvesting and moisture retention strategies.
Variations in slope and solar exposure create a range of microclimates across the property, offering flexibility for different planting and land management objectives.
The wider landscape context shows a mixture of woodland, scrub and agricultural land, while wildfire mapping suggests the property occupies a relatively lower-susceptibility position compared with some surrounding hillsides.
Overall, the property appears to offer a combination of water availability, terrain diversity and existing landscape infrastructure that may support a variety of future uses.

This report is intended as a terrain and landscape assessment and should be considered alongside site visits, professional surveys and local planning advice.

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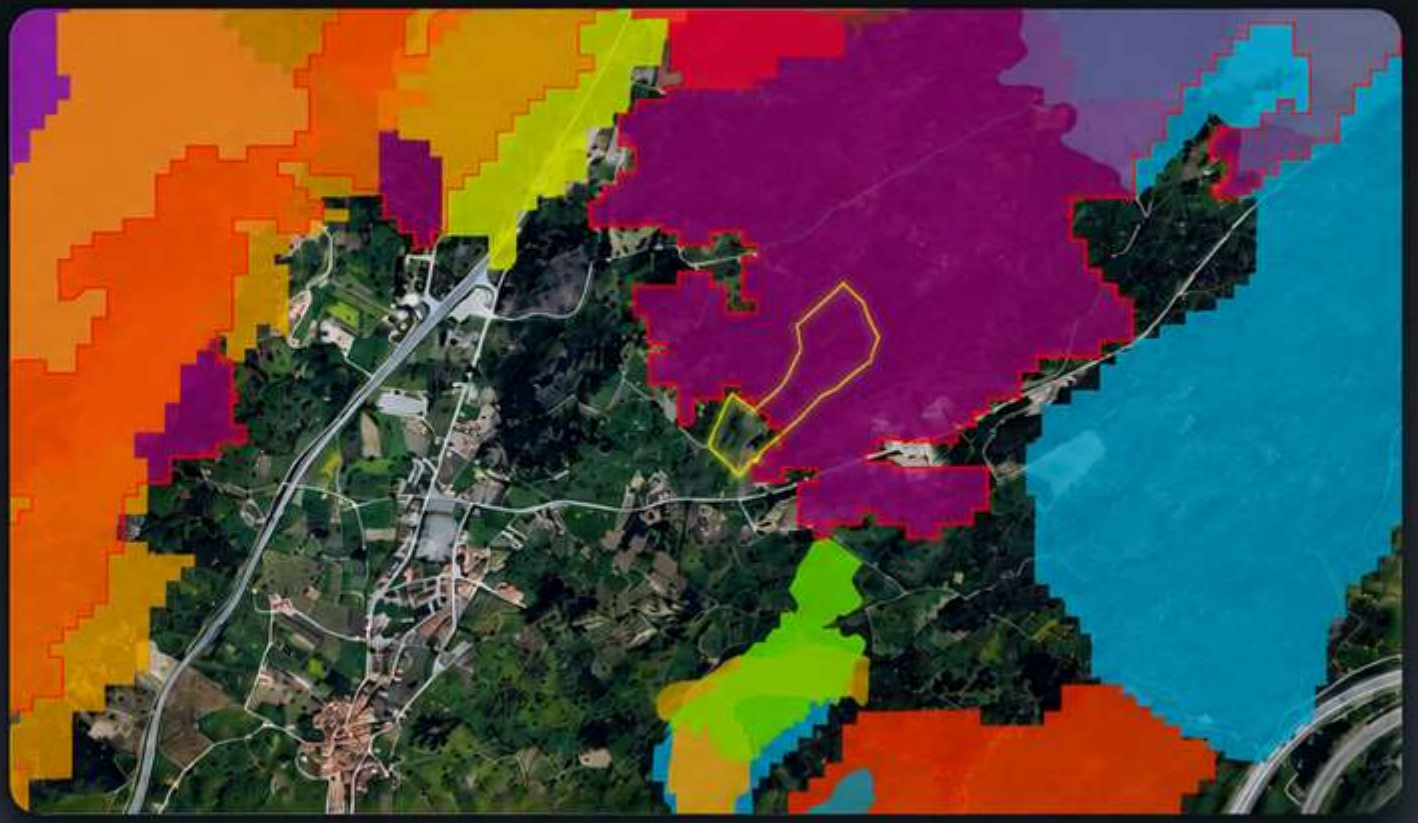
Land Vision (€300)

Practical Interpretation & Recommendations

- Custom narrated video flyover
- Terrain interpretation and commentary
- Water harvesting opportunities
- Cultivation and development
- Access and infrastructure observations
- Wildfire history and landscape context
- Prioritised recommendations

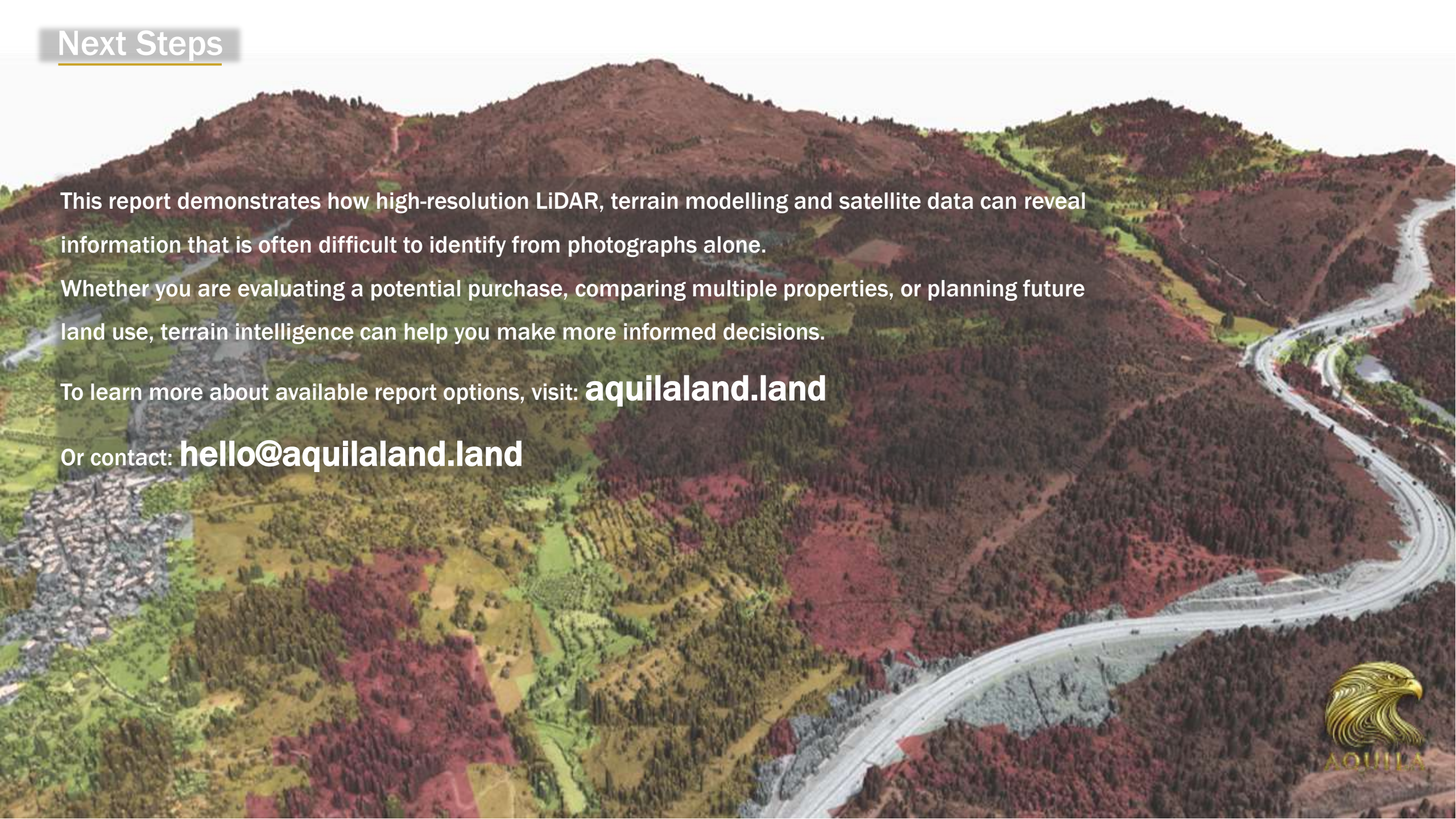
Designed for buyers who want more than maps. Land Vision combines terrain analysis with practical interpretation, helping identify opportunities, constraints and priorities before investing in land.



Historical wildfire records indicate the last mapped burn affecting the property occurred in **1999.**

Remote terrain analysis using LiDAR and satellite data – No site visit required

Next Steps



This report demonstrates how high-resolution LiDAR, terrain modelling and satellite data can reveal information that is often difficult to identify from photographs alone.

Whether you are evaluating a potential purchase, comparing multiple properties, or planning future land use, terrain intelligence can help you make more informed decisions.

To learn more about available report options, visit: **aquilaland.land**

Or contact: **hello@aquilaland.land**