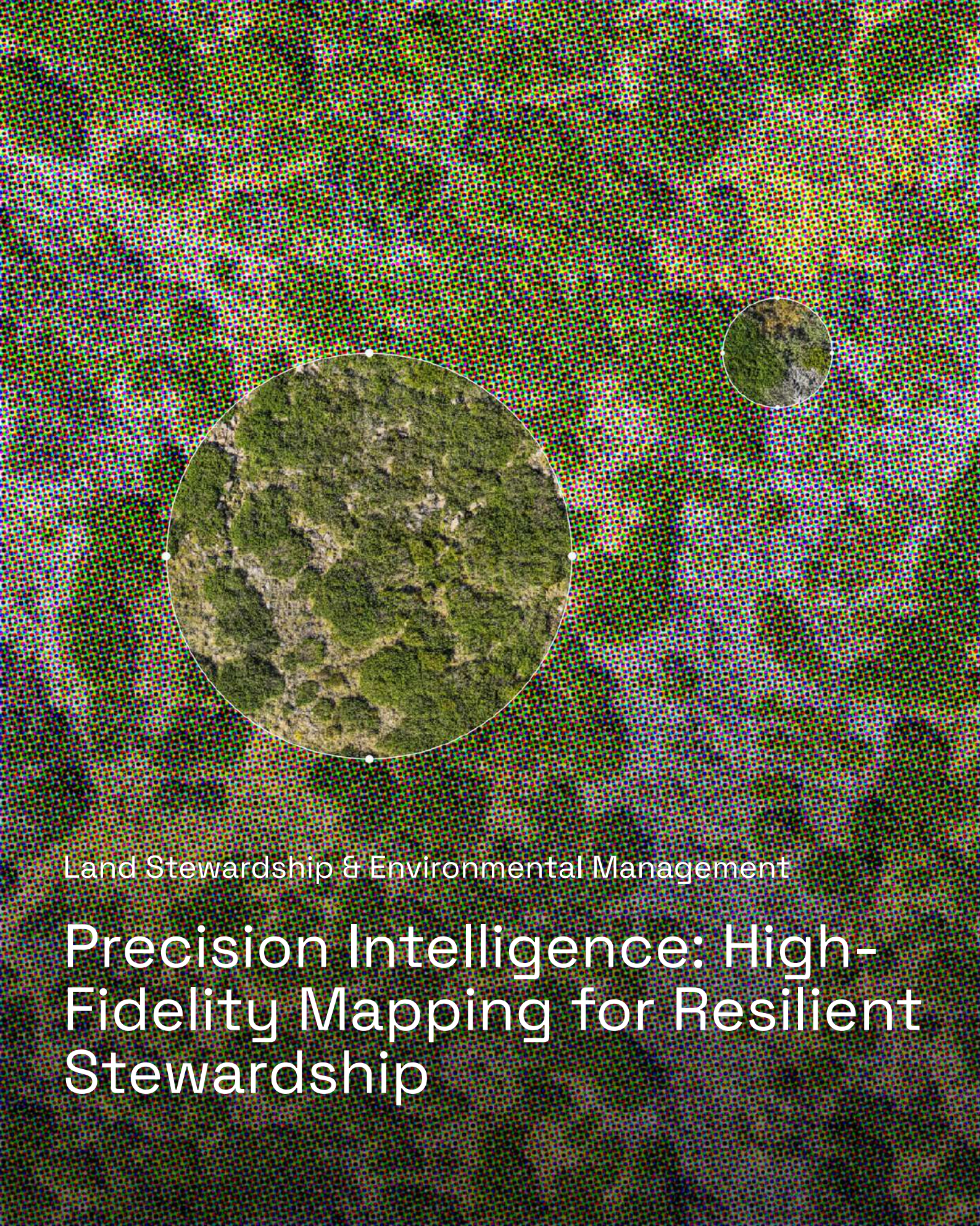

Land Stewardship & Environmental Management

Precision Intelligence: High-Fidelity Mapping for Resilient Stewardship

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Summary

Moving beyond snapshots to dynamic, millimetre-accurate geospatial models of Country.

Accurate surveying and mapping form the backbone of intelligent land stewardship. BunjilView combines advanced remote sensing, 3D geospatial models, and multiple data sources. Where required, survey-grade assessments using ground control points (GCPs) aligned to the Australian Height Datum (AHD), aerial surveys, and satellite imagery provide a detailed, up-to-date view of land, waterways, mangroves, and heritage sites.

By integrating these data streams, organisations gain a clear understanding of land conditions without visiting every site. Monitor erosion, water-level changes, riverbeds, phenology, key infrastructure, and heritage sites to make confident, forward-looking decisions that protect ecosystems, guide restoration, and support resilient, sustainable futures.

Snapshot

Project size	Up to 500 hectares daily, spanning multiple landholdings, waterways, and heritage areas
Technical aspects	Millimetre-accurate remote sensing, photogrammetry, LiDAR, thermal, hyperspectral, multi-source aerial and satellite data
Impact	Safer fieldwork, smarter decisions, empowered land stewardship

The challenge

Managing land at scale is becoming increasingly complex. Climate variability, extreme weather, and regulatory requirements demand precise, up-to-date information. Conventional surveying methods are often slow, costly, and disruptive. Physical inspections can place people at risk, damage sensitive ecosystems, and unintentionally impact culturally significant areas.

Fragmented data and inconsistent surveying practices limit visibility across landholdings, making proactive planning difficult. Without accurate, current mapping, decisions are often reactive, increasing environmental, operational, and cultural risk.

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The solution

BunjilView delivers millimetre-accurate surveying and mapping by integrating multiple data sources. High-resolution 3D geospatial models visualise terrain, waterways, mangroves, and ecosystems with exceptional detail.

By connecting diverse data streams, BunjilView transforms surveying outputs from static snapshots into dynamic, living datasets ready for analysis and real-time updates. Teams gain advanced visibility of terrain features, access routes, vegetation cover, drainage patterns, and sensitive areas, enabling safer, more efficient planning.

Our integrated approach supports culturally informed land stewardship, reducing unnecessary disturbance to Country. Sacred sites and ecologically sensitive environments are clearly defined and protected.

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The impact

Accurate surveying and mapping with BunjilView delivers both immediate results and long-term strategic value:

Enhanced safety	Minimise time in remote or hazardous environments through remote, integrated data
Reduced footprint	Limit physical site visits to protect sensitive ecosystems and waterways
Smarter decisions	Use precise terrain and phenology data to anticipate ecological risks
Operational efficiency	Streamline planning with a unified view of land and infrastructure
Cultural stewardship	Monitor and safeguard heritage sites through culturally informed data

Make proactive, respectful, and data-driven decisions with BunjilView. Organisations gain grounded insights from accurate, integrated, and actionable data that reflects the true condition of the land and strengthens resilience across environmental and infrastructure systems.

The future

As land management challenges continue to evolve, accurate surveying and mapping will play an increasingly critical role in climate resilience and sustainable development. Our platform provides a single source for advanced analytics, predictive modelling, and scenario planning, enabling organisations to anticipate change rather than respond to crises.

By supporting the mission of the PEM Foundation, BunjilView contributes to culturally informed land management and strengthens First Nations participation, fostering socially responsible stewardship alongside environmental outcomes.

Accurate surveying and mapping become more than a technical capability; they become a pathway to protecting Country, supporting communities, and ensuring resilient landscapes for generations to come.

Technical consultation

Mapping for resilience.

Standard surveys aren't enough to manage climate variability and cultural heritage. Contact our technical team to discuss how survey-grade, multi-source data can transform your restoration and stewardship efforts.

Contact info@bunjilview.com.au to request a technical mapping brief today.

Continue the series

High-fidelity mapping is the foundation of responsible land management. See how we integrate this data into centralised platforms to manage risk across Country—visit www.bunjilview.com.au/insights and continue the series.

- **Next:** Centralising Stewardship Across Multiple Landholdings
- **Strategy:** Reducing Operational Risk in Remote Landscapes

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Supply Nation CERTIFIED

NSWICC New South Wales Indigenous Chamber of Commerce

AAUS Australian Association for Unmanned Systems

BARS for RPAS Basic Aviation Risk Standard