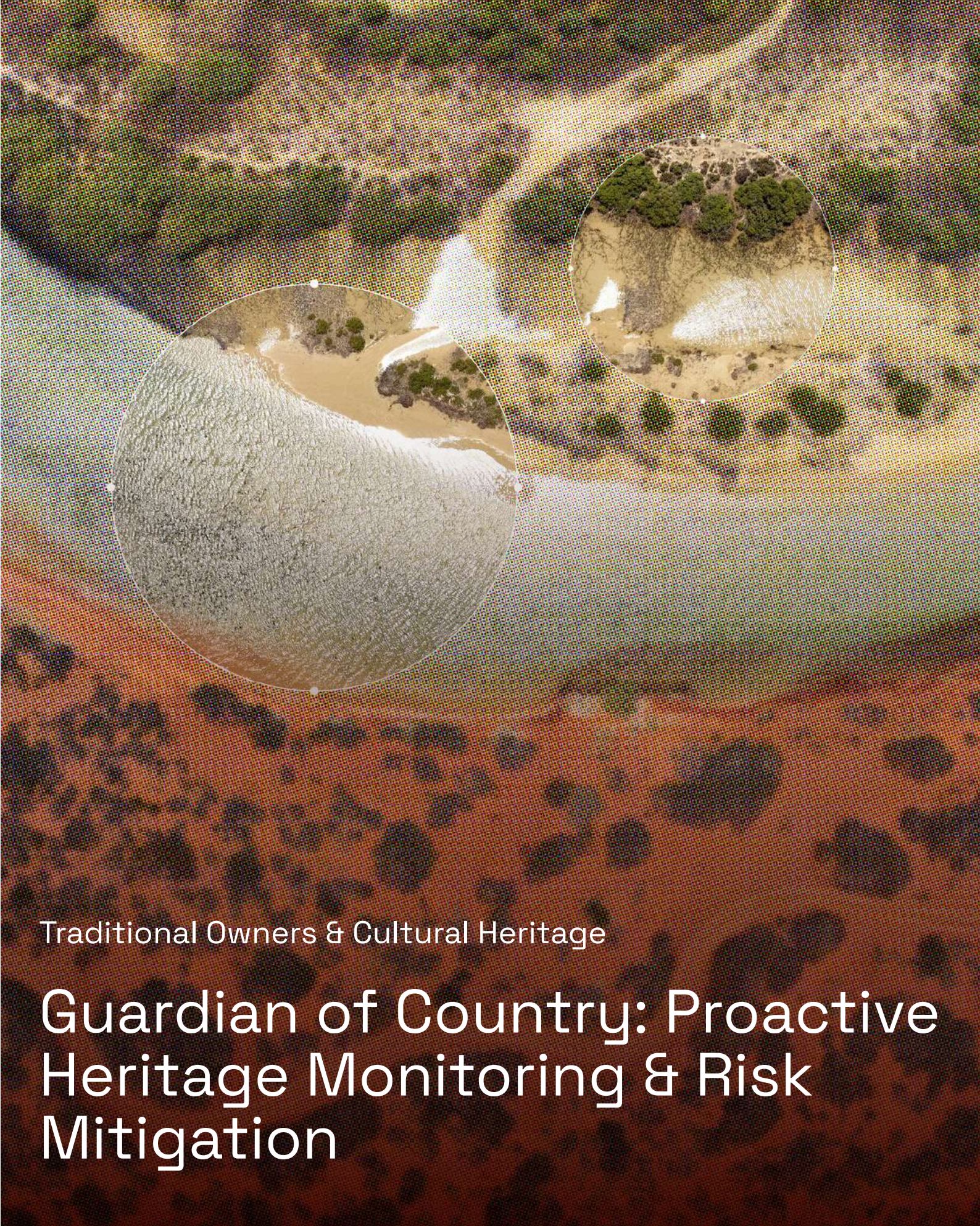

Traditional Owners & Cultural Heritage

Guardian of Country: Proactive Heritage Monitoring & Risk Mitigation

BUNJILVIEW®

BUNJILVIEW

Summary

Detecting subtle changes before they become irreversible damage.

BunjilView helps organisations safeguard cultural heritage by combining drone capture, environmental sensors, and centralised datasets.

This enables teams to detect changes, track erosion, and assess risks to heritage areas. Organisations can make proactive, informed decisions that preserve Country while respecting ongoing cultural practices.

Snapshot

Project size	Up to 500 hectares daily of sacred landscapes, heritage sites, and culturally significant waterways
Technical aspects	Drone surveys, satellite imagery, IoT and environmental sensors, multi-temporal GIS mapping, 3D visualisation
Impact	Long-term heritage preservation, proactive monitoring, informed decision-making, and culturally respectful stewardship

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The challenge

Cultural heritage sites are vulnerable to environmental changes, erosion, development pressures, and inadvertent disturbances. Subtle changes can go undetected until they escalate, putting both ecosystems and culturally significant areas at risk.

Conventional monitoring methods are labour intensive, require repeated field visits, and may disrupt sensitive environments or cultural practices. Without integrated, continuous monitoring, organisations struggle to anticipate threats and respond effectively.

The solution

BunjilView provides continuous visibility of cultural sites and heritage landscapes by centralising drone, satellite, and environmental sensor data. Dynamic 3D maps and digital models reveal changes over time, enabling teams to track erosion, environmental shifts, and emerging risks without on-site disturbance.

Predictive analytics and scenario modelling support proactive planning, helping organisations align preservation efforts with cultural protocols. Collaborative dashboards allow teams and Traditional Owners to engage with the data and coordinate stewardship activities efficiently.

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The impact

Using BunjilView, organisations can:

Preserve heritage	Detect changes and prevent degradation of culturally significant sites
Proactively manage risk	Anticipate erosion, environmental threats, and human impact
Protect cultural practices	Monitor sites without disturbing sacred areas
Enhance decision-making	Centralised insights support timely interventions
Support collaboration	Coordinate stewardship with stakeholders and Traditional Owners
Embed social responsibility	Respect both ecosystems and cultural values

The future

As environmental pressures and land use change, monitoring cultural heritage will become increasingly important. BunjilView equips organisations to protect Country proactively, maintain ecosystem and cultural integrity, and plan interventions responsibly.

Aligned with the PEM Foundation, the platform promotes First Nations participation and culturally informed stewardship. By combining technical innovation with respect for culture and community, BunjilView ensures heritage is preserved for generations while supporting socially responsible, data-driven land management.

Consultative review

Modernising your monitoring framework

Traditional site monitoring is often reactive, discovering damage after it occurs — BunjilView provides the early warning system needed to protect Country in real-time. Contact us to learn how multi-temporal GIS and remote sensing can increase your oversight while reducing site disturbance.

Contact info@bunjilview.com.au to request a monitoring capability audit today.

Continue the series

Being a guardian of the land is a shared responsibility. Discover the strategic vision behind our approach and the high-fidelity mapping that makes precision stewardship possible— visit www.bunjilview.com.au/insights and continue the series.

- **Previous:** Bridging Traditional Knowledge and Geospatial Precision
- **Next:** De-risking Projects through Cultural Intelligence

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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